



ANALYTICAL REPORT

PREPARED FOR

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Generated 10/10/2024

JOB DESCRIPTION

2024 Comprehensive Sampling

JOB NUMBER

410-191048-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
10/10/2024

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Definitions/Glossary

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

**Job Narrative
410-191048-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/4/2024 3:13 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-560875 recovered outside acceptance criteria, low biased, for 1,1-Dichloroethene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-560875 recovered above the upper control limit for 2-Hexanone and Acetone. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-560989 recovered outside acceptance criteria, low biased, for Bromomethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-MW-18S-0/1-0

Lab Sample ID: 410-191048-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.0		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	1.5		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-111-0/1-0

Lab Sample ID: 410-191048-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.47	J ^c cn	1.0	0.30	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	6.9		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	0.74	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-18D-0/1-0

Lab Sample ID: 410-191048-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.3		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	1.3		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-GM-1D-0/1-0

Lab Sample ID: 410-191048-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.67	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-150-0/1-0

Lab Sample ID: 410-191048-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.35	J ^c cn	1.0	0.30	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	39		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	27		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-Cole D-0/1-0

Lab Sample ID: 410-191048-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	18		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	0.43	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-69-0/1-0

Lab Sample ID: 410-191048-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.4		1.0	0.30	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.33	J	1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	4.3		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-QC2-0/1-1

Lab Sample ID: 410-191048-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.72	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-Cole Steel MW-12-0/1-0

Lab Sample ID: 410-191048-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	16		1.0	0.30	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.85	J	1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	14		1.0	0.30	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-MW-165-0/1-0

Lab Sample ID: 410-191048-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.6		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	0.75	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-FOLK (RW-4)-0/1-0

Lab Sample ID: 410-191048-11

No Detections.

Client Sample ID: HD-MW-43D-0/1-0

Lab Sample ID: 410-191048-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.3		1.0	0.30	ug/L	1		8260D	Total/NA
Tetrachloroethene	4.9		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	1.6		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-16S-0/1-0

Lab Sample ID: 410-191048-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.3		1.0	0.30	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.68	J	1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	14		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-82-0/1-0

Lab Sample ID: 410-191048-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.0		1.0	0.30	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.3		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	0.94	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-QC2-0/1-3

Lab Sample ID: 410-191048-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.46	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-QC2-0/1-4

Lab Sample ID: 410-191048-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.57	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-QC3-0/1-2

Lab Sample ID: 410-191048-17

No Detections.

Client Sample ID: HD-MW-110-0/1-0

Lab Sample ID: 410-191048-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.74	J	1.0	0.30	ug/L	1		8260D	Total/NA
Tetrachloroethene	19		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	0.41	J	1.0	0.30	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-MW-18S-0/1-0

Lab Sample ID: 410-191048-1

Date Collected: 10/02/24 08:55

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 00:11	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 00:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 00:11	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 00:11	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 00:11	1
1,1-Dichloroethene	ND	^c cn	1.0	0.30	ug/L			10/09/24 00:11	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 00:11	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 00:11	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 00:11	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 00:11	1
2-Hexanone	ND	^c cn	10	0.85	ug/L			10/09/24 00:11	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 00:11	1
Acetone	ND	^c cn	20	0.70	ug/L			10/09/24 00:11	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 00:11	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 00:11	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 00:11	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 00:11	1
Bromomethane	ND		1.0	0.30	ug/L			10/09/24 00:11	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 00:11	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 00:11	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 00:11	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 00:11	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 00:11	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 00:11	1
cis-1,2-Dichloroethene	8.0		1.0	0.30	ug/L			10/09/24 00:11	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 00:11	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 00:11	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 00:11	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 00:11	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 00:11	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 00:11	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/09/24 00:11	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 00:11	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 00:11	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 00:11	1
Trichloroethene	1.5		1.0	0.30	ug/L			10/09/24 00:11	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 00:11	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		10/09/24 00:11	1
4-Bromofluorobenzene (Surr)	90		80 - 120		10/09/24 00:11	1
Dibromofluoromethane (Surr)	101		80 - 120		10/09/24 00:11	1
Toluene-d8 (Surr)	101		80 - 120		10/09/24 00:11	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-MW-111-0/1-0

Lab Sample ID: 410-191048-2

Date Collected: 10/02/24 13:40

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 00:33	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 00:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 00:33	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 00:33	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 00:33	1
1,1-Dichloroethene	0.47	J ^c cn	1.0	0.30	ug/L			10/09/24 00:33	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 00:33	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 00:33	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 00:33	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 00:33	1
2-Hexanone	ND	^c cn	10	0.85	ug/L			10/09/24 00:33	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 00:33	1
Acetone	ND	^c cn	20	0.70	ug/L			10/09/24 00:33	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 00:33	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 00:33	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 00:33	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 00:33	1
Bromomethane	ND		1.0	0.30	ug/L			10/09/24 00:33	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 00:33	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 00:33	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 00:33	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 00:33	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 00:33	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 00:33	1
cis-1,2-Dichloroethene	6.9		1.0	0.30	ug/L			10/09/24 00:33	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 00:33	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 00:33	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 00:33	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 00:33	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 00:33	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 00:33	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/09/24 00:33	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 00:33	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 00:33	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 00:33	1
Trichloroethene	0.74	J	1.0	0.30	ug/L			10/09/24 00:33	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 00:33	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		10/09/24 00:33	1
4-Bromofluorobenzene (Surr)	89		80 - 120		10/09/24 00:33	1
Dibromofluoromethane (Surr)	105		80 - 120		10/09/24 00:33	1
Toluene-d8 (Surr)	102		80 - 120		10/09/24 00:33	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-MW-18D-0/1-0

Lab Sample ID: 410-191048-3

Date Collected: 10/02/24 14:52

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 00:56	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 00:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 00:56	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 00:56	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 00:56	1
1,1-Dichloroethene	ND	^c cn	1.0	0.30	ug/L			10/09/24 00:56	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 00:56	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 00:56	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 00:56	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 00:56	1
2-Hexanone	ND	^c cn	10	0.85	ug/L			10/09/24 00:56	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 00:56	1
Acetone	ND	^c cn	20	0.70	ug/L			10/09/24 00:56	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 00:56	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 00:56	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 00:56	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 00:56	1
Bromomethane	ND		1.0	0.30	ug/L			10/09/24 00:56	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 00:56	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 00:56	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 00:56	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 00:56	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 00:56	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 00:56	1
cis-1,2-Dichloroethene	7.3		1.0	0.30	ug/L			10/09/24 00:56	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 00:56	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 00:56	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 00:56	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 00:56	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 00:56	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 00:56	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/09/24 00:56	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 00:56	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 00:56	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 00:56	1
Trichloroethene	1.3		1.0	0.30	ug/L			10/09/24 00:56	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 00:56	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 00:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120					10/09/24 00:56	1
4-Bromofluorobenzene (Surr)	89		80 - 120					10/09/24 00:56	1
Dibromofluoromethane (Surr)	101		80 - 120					10/09/24 00:56	1
Toluene-d8 (Surr)	102		80 - 120					10/09/24 00:56	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-GM-1D-0/1-0

Lab Sample ID: 410-191048-4

Date Collected: 10/03/24 09:00

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 02:03	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 02:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 02:03	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 02:03	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 02:03	1
1,1-Dichloroethene	ND	^c cn	1.0	0.30	ug/L			10/09/24 02:03	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 02:03	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 02:03	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 02:03	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 02:03	1
2-Hexanone	ND	^c cn	10	0.85	ug/L			10/09/24 02:03	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 02:03	1
Acetone	ND	^c cn	20	0.70	ug/L			10/09/24 02:03	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 02:03	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 02:03	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 02:03	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 02:03	1
Bromomethane	ND		1.0	0.30	ug/L			10/09/24 02:03	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 02:03	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 02:03	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 02:03	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 02:03	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 02:03	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 02:03	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/09/24 02:03	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 02:03	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 02:03	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 02:03	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 02:03	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 02:03	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 02:03	1
Tetrachloroethene	0.67	J	1.0	0.30	ug/L			10/09/24 02:03	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 02:03	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 02:03	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 02:03	1
Trichloroethene	ND		1.0	0.30	ug/L			10/09/24 02:03	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 02:03	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 02:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		10/09/24 02:03	1
4-Bromofluorobenzene (Surr)	90		80 - 120		10/09/24 02:03	1
Dibromofluoromethane (Surr)	99		80 - 120		10/09/24 02:03	1
Toluene-d8 (Surr)	104		80 - 120		10/09/24 02:03	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-MW-150-0/1-0

Lab Sample ID: 410-191048-5

Date Collected: 10/03/24 11:15

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 02:25	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 02:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 02:25	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 02:25	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 02:25	1
1,1-Dichloroethene	0.35	J ^c cn	1.0	0.30	ug/L			10/09/24 02:25	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 02:25	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 02:25	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 02:25	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 02:25	1
2-Hexanone	ND	^c cn	10	0.85	ug/L			10/09/24 02:25	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 02:25	1
Acetone	ND	^c cn	20	0.70	ug/L			10/09/24 02:25	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 02:25	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 02:25	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 02:25	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 02:25	1
Bromomethane	ND		1.0	0.30	ug/L			10/09/24 02:25	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 02:25	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 02:25	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 02:25	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 02:25	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 02:25	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 02:25	1
cis-1,2-Dichloroethene	39		1.0	0.30	ug/L			10/09/24 02:25	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 02:25	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 02:25	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 02:25	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 02:25	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 02:25	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 02:25	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/09/24 02:25	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 02:25	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 02:25	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 02:25	1
Trichloroethene	27		1.0	0.30	ug/L			10/09/24 02:25	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 02:25	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 02:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120					10/09/24 02:25	1
4-Bromofluorobenzene (Surr)	90		80 - 120					10/09/24 02:25	1
Dibromofluoromethane (Surr)	100		80 - 120					10/09/24 02:25	1
Toluene-d8 (Surr)	102		80 - 120					10/09/24 02:25	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-Cole D-0/1-0

Lab Sample ID: 410-191048-6

Date Collected: 10/03/24 12:30

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 02:48	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 02:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 02:48	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 02:48	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 02:48	1
1,1-Dichloroethene	ND	^c cn	1.0	0.30	ug/L			10/09/24 02:48	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 02:48	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 02:48	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 02:48	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 02:48	1
2-Hexanone	ND	^c cn	10	0.85	ug/L			10/09/24 02:48	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 02:48	1
Acetone	ND	^c cn	20	0.70	ug/L			10/09/24 02:48	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 02:48	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 02:48	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 02:48	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 02:48	1
Bromomethane	ND		1.0	0.30	ug/L			10/09/24 02:48	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 02:48	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 02:48	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 02:48	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 02:48	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 02:48	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 02:48	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/09/24 02:48	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 02:48	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 02:48	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 02:48	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 02:48	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 02:48	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 02:48	1
Tetrachloroethene	18		1.0	0.30	ug/L			10/09/24 02:48	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 02:48	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 02:48	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 02:48	1
Trichloroethene	0.43	J	1.0	0.30	ug/L			10/09/24 02:48	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 02:48	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		10/09/24 02:48	1
4-Bromofluorobenzene (Surr)	90		80 - 120		10/09/24 02:48	1
Dibromofluoromethane (Surr)	99		80 - 120		10/09/24 02:48	1
Toluene-d8 (Surr)	103		80 - 120		10/09/24 02:48	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-MW-69-0/1-0

Lab Sample ID: 410-191048-7

Date Collected: 10/03/24 14:18

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 03:10	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 03:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 03:10	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 03:10	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 03:10	1
1,1-Dichloroethene	ND	^c cn	1.0	0.30	ug/L			10/09/24 03:10	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 03:10	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 03:10	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 03:10	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 03:10	1
2-Hexanone	ND	^c cn	10	0.85	ug/L			10/09/24 03:10	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 03:10	1
Acetone	ND	^c cn	20	0.70	ug/L			10/09/24 03:10	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 03:10	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 03:10	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 03:10	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 03:10	1
Bromomethane	ND		1.0	0.30	ug/L			10/09/24 03:10	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 03:10	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 03:10	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 03:10	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 03:10	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 03:10	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 03:10	1
cis-1,2-Dichloroethene	5.4		1.0	0.30	ug/L			10/09/24 03:10	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 03:10	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 03:10	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 03:10	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 03:10	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 03:10	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 03:10	1
Tetrachloroethene	0.33	J	1.0	0.30	ug/L			10/09/24 03:10	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 03:10	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 03:10	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 03:10	1
Trichloroethene	4.3		1.0	0.30	ug/L			10/09/24 03:10	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 03:10	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 03:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		10/09/24 03:10	1
4-Bromofluorobenzene (Surr)	90		80 - 120		10/09/24 03:10	1
Dibromofluoromethane (Surr)	100		80 - 120		10/09/24 03:10	1
Toluene-d8 (Surr)	102		80 - 120		10/09/24 03:10	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-QC2-0/1-1

Lab Sample ID: 410-191048-8

Date Collected: 10/03/24 08:00

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 03:33	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 03:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 03:33	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 03:33	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 03:33	1
1,1-Dichloroethene	ND	^c cn	1.0	0.30	ug/L			10/09/24 03:33	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 03:33	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 03:33	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 03:33	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 03:33	1
2-Hexanone	ND	^c cn	10	0.85	ug/L			10/09/24 03:33	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 03:33	1
Acetone	ND	^c cn	20	0.70	ug/L			10/09/24 03:33	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 03:33	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 03:33	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 03:33	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 03:33	1
Bromomethane	ND		1.0	0.30	ug/L			10/09/24 03:33	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 03:33	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 03:33	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 03:33	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 03:33	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 03:33	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 03:33	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/09/24 03:33	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 03:33	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 03:33	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 03:33	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 03:33	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 03:33	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 03:33	1
Tetrachloroethene	0.72	J	1.0	0.30	ug/L			10/09/24 03:33	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 03:33	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 03:33	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 03:33	1
Trichloroethene	ND		1.0	0.30	ug/L			10/09/24 03:33	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 03:33	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 03:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120					10/09/24 03:33	1
4-Bromofluorobenzene (Surr)	89		80 - 120					10/09/24 03:33	1
Dibromofluoromethane (Surr)	100		80 - 120					10/09/24 03:33	1
Toluene-d8 (Surr)	100		80 - 120					10/09/24 03:33	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-Cole Steel MW-12-0/1-0

Lab Sample ID: 410-191048-9

Date Collected: 10/04/24 09:43

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 03:55	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 03:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 03:55	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 03:55	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 03:55	1
1,1-Dichloroethene	ND	^c cn	1.0	0.30	ug/L			10/09/24 03:55	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 03:55	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 03:55	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 03:55	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 03:55	1
2-Hexanone	ND	^c cn	10	0.85	ug/L			10/09/24 03:55	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 03:55	1
Acetone	ND	^c cn	20	0.70	ug/L			10/09/24 03:55	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 03:55	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 03:55	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 03:55	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 03:55	1
Bromomethane	ND		1.0	0.30	ug/L			10/09/24 03:55	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 03:55	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 03:55	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 03:55	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 03:55	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 03:55	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 03:55	1
cis-1,2-Dichloroethene	16		1.0	0.30	ug/L			10/09/24 03:55	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 03:55	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 03:55	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 03:55	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 03:55	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 03:55	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 03:55	1
Tetrachloroethene	0.85	J	1.0	0.30	ug/L			10/09/24 03:55	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 03:55	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 03:55	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 03:55	1
Trichloroethene	14		1.0	0.30	ug/L			10/09/24 03:55	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 03:55	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 03:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120					10/09/24 03:55	1
4-Bromofluorobenzene (Surr)	91		80 - 120					10/09/24 03:55	1
Dibromofluoromethane (Surr)	101		80 - 120					10/09/24 03:55	1
Toluene-d8 (Surr)	102		80 - 120					10/09/24 03:55	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-MW-165-0/1-0

Lab Sample ID: 410-191048-10

Date Collected: 10/04/24 10:05

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 04:18	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 04:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 04:18	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 04:18	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 04:18	1
1,1-Dichloroethene	ND	^c cn	1.0	0.30	ug/L			10/09/24 04:18	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 04:18	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 04:18	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 04:18	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 04:18	1
2-Hexanone	ND	^c cn	10	0.85	ug/L			10/09/24 04:18	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 04:18	1
Acetone	ND	^c cn	20	0.70	ug/L			10/09/24 04:18	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 04:18	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 04:18	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 04:18	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 04:18	1
Bromomethane	ND		1.0	0.30	ug/L			10/09/24 04:18	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 04:18	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 04:18	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 04:18	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 04:18	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 04:18	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 04:18	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/09/24 04:18	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 04:18	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 04:18	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 04:18	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 04:18	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 04:18	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 04:18	1
Tetrachloroethene	2.6		1.0	0.30	ug/L			10/09/24 04:18	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 04:18	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 04:18	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 04:18	1
Trichloroethene	0.75	J	1.0	0.30	ug/L			10/09/24 04:18	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 04:18	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 04:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		10/09/24 04:18	1
4-Bromofluorobenzene (Surr)	89		80 - 120		10/09/24 04:18	1
Dibromofluoromethane (Surr)	99		80 - 120		10/09/24 04:18	1
Toluene-d8 (Surr)	102		80 - 120		10/09/24 04:18	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-FOLK (RW-4)-0/1-0

Lab Sample ID: 410-191048-11

Date Collected: 10/04/24 11:30

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 04:40	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 04:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 04:40	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 04:40	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 04:40	1
1,1-Dichloroethene	ND	^c cn	1.0	0.30	ug/L			10/09/24 04:40	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 04:40	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 04:40	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 04:40	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 04:40	1
2-Hexanone	ND	^c cn	10	0.85	ug/L			10/09/24 04:40	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 04:40	1
Acetone	ND	^c cn	20	0.70	ug/L			10/09/24 04:40	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 04:40	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 04:40	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 04:40	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 04:40	1
Bromomethane	ND		1.0	0.30	ug/L			10/09/24 04:40	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 04:40	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 04:40	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 04:40	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 04:40	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 04:40	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 04:40	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/09/24 04:40	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 04:40	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 04:40	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 04:40	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 04:40	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 04:40	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 04:40	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/09/24 04:40	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 04:40	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 04:40	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 04:40	1
Trichloroethene	ND		1.0	0.30	ug/L			10/09/24 04:40	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 04:40	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		10/09/24 04:40	1
4-Bromofluorobenzene (Surr)	89		80 - 120		10/09/24 04:40	1
Dibromofluoromethane (Surr)	102		80 - 120		10/09/24 04:40	1
Toluene-d8 (Surr)	101		80 - 120		10/09/24 04:40	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-MW-43D-0/1-0

Lab Sample ID: 410-191048-12

Date Collected: 10/04/24 10:20

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 05:03	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 05:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 05:03	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 05:03	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 05:03	1
1,1-Dichloroethene	ND	^c cn	1.0	0.30	ug/L			10/09/24 05:03	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 05:03	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 05:03	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 05:03	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 05:03	1
2-Hexanone	ND	^c cn	10	0.85	ug/L			10/09/24 05:03	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 05:03	1
Acetone	ND	^c cn	20	0.70	ug/L			10/09/24 05:03	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 05:03	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 05:03	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 05:03	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 05:03	1
Bromomethane	ND		1.0	0.30	ug/L			10/09/24 05:03	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 05:03	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 05:03	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 05:03	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 05:03	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 05:03	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 05:03	1
cis-1,2-Dichloroethene	3.3		1.0	0.30	ug/L			10/09/24 05:03	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 05:03	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 05:03	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 05:03	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 05:03	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 05:03	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 05:03	1
Tetrachloroethene	4.9		1.0	0.30	ug/L			10/09/24 05:03	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 05:03	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 05:03	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 05:03	1
Trichloroethene	1.6		1.0	0.30	ug/L			10/09/24 05:03	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 05:03	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 05:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		10/09/24 05:03	1
4-Bromofluorobenzene (Surr)	89		80 - 120		10/09/24 05:03	1
Dibromofluoromethane (Surr)	101		80 - 120		10/09/24 05:03	1
Toluene-d8 (Surr)	102		80 - 120		10/09/24 05:03	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-MW-16S-0/1-0

Lab Sample ID: 410-191048-13

Date Collected: 10/04/24 11:40

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 05:25	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 05:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 05:25	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 05:25	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 05:25	1
1,1-Dichloroethene	ND	^c cn	1.0	0.30	ug/L			10/09/24 05:25	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 05:25	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 05:25	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 05:25	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 05:25	1
2-Hexanone	ND	^c cn	10	0.85	ug/L			10/09/24 05:25	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 05:25	1
Acetone	ND	^c cn	20	0.70	ug/L			10/09/24 05:25	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 05:25	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 05:25	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 05:25	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 05:25	1
Bromomethane	ND		1.0	0.30	ug/L			10/09/24 05:25	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 05:25	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 05:25	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 05:25	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 05:25	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 05:25	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 05:25	1
cis-1,2-Dichloroethene	6.3		1.0	0.30	ug/L			10/09/24 05:25	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 05:25	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 05:25	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 05:25	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 05:25	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 05:25	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 05:25	1
Tetrachloroethene	0.68	J	1.0	0.30	ug/L			10/09/24 05:25	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 05:25	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 05:25	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 05:25	1
Trichloroethene	14		1.0	0.30	ug/L			10/09/24 05:25	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 05:25	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 05:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		10/09/24 05:25	1
4-Bromofluorobenzene (Surr)	89		80 - 120		10/09/24 05:25	1
Dibromofluoromethane (Surr)	102		80 - 120		10/09/24 05:25	1
Toluene-d8 (Surr)	102		80 - 120		10/09/24 05:25	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-MW-82-0/1-0

Lab Sample ID: 410-191048-14

Date Collected: 10/04/24 12:25

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 05:47	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 05:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 05:47	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 05:47	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 05:47	1
1,1-Dichloroethene	ND	^c cn	1.0	0.30	ug/L			10/09/24 05:47	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 05:47	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 05:47	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 05:47	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 05:47	1
2-Hexanone	ND	^c cn	10	0.85	ug/L			10/09/24 05:47	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 05:47	1
Acetone	ND	^c cn	20	0.70	ug/L			10/09/24 05:47	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 05:47	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 05:47	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 05:47	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 05:47	1
Bromomethane	ND		1.0	0.30	ug/L			10/09/24 05:47	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 05:47	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 05:47	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 05:47	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 05:47	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 05:47	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 05:47	1
cis-1,2-Dichloroethene	1.0		1.0	0.30	ug/L			10/09/24 05:47	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 05:47	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 05:47	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 05:47	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 05:47	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 05:47	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 05:47	1
Tetrachloroethene	1.3		1.0	0.30	ug/L			10/09/24 05:47	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 05:47	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 05:47	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 05:47	1
Trichloroethene	0.94	J	1.0	0.30	ug/L			10/09/24 05:47	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 05:47	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 05:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		10/09/24 05:47	1
4-Bromofluorobenzene (Surr)	88		80 - 120		10/09/24 05:47	1
Dibromofluoromethane (Surr)	102		80 - 120		10/09/24 05:47	1
Toluene-d8 (Surr)	101		80 - 120		10/09/24 05:47	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-QC2-0/1-3

Lab Sample ID: 410-191048-15

Date Collected: 10/04/24 11:55

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 17:34	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 17:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 17:34	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 17:34	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 17:34	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/09/24 17:34	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 17:34	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 17:34	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 17:34	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 17:34	1
2-Hexanone	ND		10	0.85	ug/L			10/09/24 17:34	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 17:34	1
Acetone	ND		20	0.70	ug/L			10/09/24 17:34	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 17:34	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 17:34	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 17:34	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 17:34	1
Bromomethane	ND	^c cn	1.0	0.30	ug/L			10/09/24 17:34	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 17:34	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 17:34	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 17:34	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 17:34	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 17:34	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 17:34	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/09/24 17:34	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 17:34	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 17:34	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 17:34	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 17:34	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 17:34	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 17:34	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/09/24 17:34	1
Toluene	0.46	J	1.0	0.30	ug/L			10/09/24 17:34	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 17:34	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 17:34	1
Trichloroethene	ND		1.0	0.30	ug/L			10/09/24 17:34	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 17:34	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		10/09/24 17:34	1
4-Bromofluorobenzene (Surr)	89		80 - 120		10/09/24 17:34	1
Dibromofluoromethane (Surr)	100		80 - 120		10/09/24 17:34	1
Toluene-d8 (Surr)	101		80 - 120		10/09/24 17:34	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-QC2-0/1-4

Lab Sample ID: 410-191048-16

Date Collected: 10/04/24 12:00

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 17:56	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 17:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 17:56	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 17:56	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 17:56	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/09/24 17:56	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 17:56	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 17:56	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 17:56	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 17:56	1
2-Hexanone	ND		10	0.85	ug/L			10/09/24 17:56	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 17:56	1
Acetone	ND		20	0.70	ug/L			10/09/24 17:56	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 17:56	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 17:56	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 17:56	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 17:56	1
Bromomethane	ND	^c cn	1.0	0.30	ug/L			10/09/24 17:56	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 17:56	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 17:56	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 17:56	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 17:56	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 17:56	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 17:56	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/09/24 17:56	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 17:56	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 17:56	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 17:56	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 17:56	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 17:56	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 17:56	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/09/24 17:56	1
Toluene	0.57	J	1.0	0.30	ug/L			10/09/24 17:56	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 17:56	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 17:56	1
Trichloroethene	ND		1.0	0.30	ug/L			10/09/24 17:56	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 17:56	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120					10/09/24 17:56	1
4-Bromofluorobenzene (Surr)	92		80 - 120					10/09/24 17:56	1
Dibromofluoromethane (Surr)	99		80 - 120					10/09/24 17:56	1
Toluene-d8 (Surr)	102		80 - 120					10/09/24 17:56	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-QC3-0/1-2

Lab Sample ID: 410-191048-17

Date Collected: 10/02/24 00:00

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 18:19	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 18:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 18:19	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 18:19	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 18:19	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/09/24 18:19	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 18:19	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 18:19	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 18:19	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 18:19	1
2-Hexanone	ND		10	0.85	ug/L			10/09/24 18:19	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 18:19	1
Acetone	ND		20	0.70	ug/L			10/09/24 18:19	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 18:19	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 18:19	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 18:19	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 18:19	1
Bromomethane	ND	^c cn	1.0	0.30	ug/L			10/09/24 18:19	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 18:19	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 18:19	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 18:19	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 18:19	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 18:19	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 18:19	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/09/24 18:19	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 18:19	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 18:19	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 18:19	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 18:19	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 18:19	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 18:19	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/09/24 18:19	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 18:19	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 18:19	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 18:19	1
Trichloroethene	ND		1.0	0.30	ug/L			10/09/24 18:19	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 18:19	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		10/09/24 18:19	1
4-Bromofluorobenzene (Surr)	90		80 - 120		10/09/24 18:19	1
Dibromofluoromethane (Surr)	99		80 - 120		10/09/24 18:19	1
Toluene-d8 (Surr)	103		80 - 120		10/09/24 18:19	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-MW-110-0/1-0

Lab Sample ID: 410-191048-18

Date Collected: 10/03/24 14:02

Matrix: Water

Date Received: 10/04/24 15:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 18:41	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 18:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 18:41	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 18:41	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 18:41	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/09/24 18:41	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 18:41	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 18:41	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 18:41	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 18:41	1
2-Hexanone	ND		10	0.85	ug/L			10/09/24 18:41	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 18:41	1
Acetone	ND		20	0.70	ug/L			10/09/24 18:41	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 18:41	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 18:41	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 18:41	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 18:41	1
Bromomethane	ND	^c cn	1.0	0.30	ug/L			10/09/24 18:41	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 18:41	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 18:41	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 18:41	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 18:41	1
Chloroform	0.74	J	1.0	0.30	ug/L			10/09/24 18:41	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 18:41	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/09/24 18:41	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 18:41	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 18:41	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 18:41	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 18:41	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 18:41	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 18:41	1
Tetrachloroethene	19		1.0	0.30	ug/L			10/09/24 18:41	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 18:41	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 18:41	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 18:41	1
Trichloroethene	0.41	J	1.0	0.30	ug/L			10/09/24 18:41	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 18:41	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		10/09/24 18:41	1
4-Bromofluorobenzene (Surr)	88		80 - 120		10/09/24 18:41	1
Dibromofluoromethane (Surr)	99		80 - 120		10/09/24 18:41	1
Toluene-d8 (Surr)	102		80 - 120		10/09/24 18:41	1

Default Detection Limits

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	1.0	0.30	ug/L
1,1,1-Trichloroethane	1.0	0.30	ug/L
1,1,2,2-Tetrachloroethane	1.0	0.30	ug/L
1,1,2-Trichloroethane	1.0	0.30	ug/L
1,1-Dichloroethane	1.0	0.30	ug/L
1,1-Dichloroethene	1.0	0.30	ug/L
1,2-Dibromoethane (EDB)	1.0	0.20	ug/L
1,2-Dichloroethane	1.0	0.30	ug/L
1,2-Dichloropropane	1.0	0.30	ug/L
2-Butanone (MEK)	10	0.50	ug/L
2-Hexanone	10	0.85	ug/L
4-Methyl-2-pentanone (MIBK)	10	0.50	ug/L
Acetone	20	0.70	ug/L
Benzene	1.0	0.30	ug/L
Bromochloromethane	5.0	0.20	ug/L
Bromodichloromethane	1.0	0.20	ug/L
Bromoform	4.0	1.0	ug/L
Bromomethane	1.0	0.30	ug/L
Carbon disulfide	5.0	0.30	ug/L
Carbon tetrachloride	1.0	0.30	ug/L
Chlorobenzene	1.0	0.30	ug/L
Chloroethane	1.0	0.30	ug/L
Chloroform	1.0	0.30	ug/L
Chloromethane	2.0	0.55	ug/L
cis-1,2-Dichloroethene	1.0	0.30	ug/L
cis-1,3-Dichloropropene	1.0	0.20	ug/L
Dibromochloromethane	1.0	0.20	ug/L
Ethylbenzene	1.0	0.40	ug/L
Methyl tert-butyl ether	1.0	0.20	ug/L
Methylene Chloride	1.0	0.30	ug/L
Styrene	5.0	0.30	ug/L
Tetrachloroethene	1.0	0.30	ug/L
Toluene	1.0	0.30	ug/L
trans-1,2-Dichloroethene	2.0	0.70	ug/L
trans-1,3-Dichloropropene	1.0	0.20	ug/L
Trichloroethene	1.0	0.30	ug/L
Vinyl chloride	1.0	0.30	ug/L
Xylenes, Total	1.0	0.40	ug/L

Surrogate Summary

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	BFB (80-120)	DBFM (80-120)	TOL (80-120)
410-191048-1	HD-MW-18S-0/1-0	104	90	101	101
410-191048-2	HD-MW-111-0/1-0	105	89	105	102
410-191048-3	HD-MW-18D-0/1-0	105	89	101	102
410-191048-3 MS	HD-MW-18D-0/1-0MS	100	93	98	106
410-191048-3 MSD	HD-MW-18D-0/1-0MSD	100	91	96	106
410-191048-4	HD-GM-1D-0/1-0	98	90	99	104
410-191048-5	HD-MW-150-0/1-0	103	90	100	102
410-191048-6	HD-Cole D-0/1-0	102	90	99	103
410-191048-7	HD-MW-69-0/1-0	101	90	100	102
410-191048-8	HD-QC2-0/1-1	105	89	100	100
410-191048-9	HD-Cole Steel MW-12-0/1-0	103	91	101	102
410-191048-10	HD-MW-165-0/1-0	104	89	99	102
410-191048-11	HD-FOLK (RW-4)-0/1-0	102	89	102	101
410-191048-12	HD-MW-43D-0/1-0	105	89	101	102
410-191048-13	HD-MW-16S-0/1-0	105	89	102	102
410-191048-14	HD-MW-82-0/1-0	103	88	102	101
410-191048-15	HD-QC2-0/1-3	100	89	100	101
410-191048-16	HD-QC2-0/1-4	102	92	99	102
410-191048-17	HD-QC3-0/1-2	99	90	99	103
410-191048-18	HD-MW-110-0/1-0	102	88	99	102
LCS 410-560875/4	Lab Control Sample	102	92	95	107
LCS 410-560989/7	Lab Control Sample	103	90	97	106
LCSD 410-560989/8	Lab Control Sample Dup	99	93	95	107
MB 410-560875/6	Method Blank	107	92	101	103
MB 410-560989/10	Method Blank	105	90	99	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-560875/6
Matrix: Water
Analysis Batch: 560875

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/08/24 21:57	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/08/24 21:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/08/24 21:57	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/08/24 21:57	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/08/24 21:57	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/08/24 21:57	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/08/24 21:57	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/08/24 21:57	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/08/24 21:57	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/08/24 21:57	1
2-Hexanone	ND		10	0.85	ug/L			10/08/24 21:57	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/08/24 21:57	1
Acetone	ND		20	0.70	ug/L			10/08/24 21:57	1
Benzene	ND		1.0	0.30	ug/L			10/08/24 21:57	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/08/24 21:57	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/08/24 21:57	1
Bromoform	ND		4.0	1.0	ug/L			10/08/24 21:57	1
Bromomethane	ND		1.0	0.30	ug/L			10/08/24 21:57	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/08/24 21:57	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/08/24 21:57	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/08/24 21:57	1
Chloroethane	ND		1.0	0.30	ug/L			10/08/24 21:57	1
Chloroform	ND		1.0	0.30	ug/L			10/08/24 21:57	1
Chloromethane	ND		2.0	0.55	ug/L			10/08/24 21:57	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/08/24 21:57	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/08/24 21:57	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/08/24 21:57	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/08/24 21:57	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/08/24 21:57	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/08/24 21:57	1
Styrene	ND		5.0	0.30	ug/L			10/08/24 21:57	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/08/24 21:57	1
Toluene	ND		1.0	0.30	ug/L			10/08/24 21:57	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/08/24 21:57	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/08/24 21:57	1
Trichloroethene	ND		1.0	0.30	ug/L			10/08/24 21:57	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/08/24 21:57	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/08/24 21:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		10/08/24 21:57	1
4-Bromofluorobenzene (Surr)	92		80 - 120		10/08/24 21:57	1
Dibromofluoromethane (Surr)	101		80 - 120		10/08/24 21:57	1
Toluene-d8 (Surr)	103		80 - 120		10/08/24 21:57	1

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-560875/4
Matrix: Water
Analysis Batch: 560875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	20.3		ug/L		101	79 - 120
1,1,1-Trichloroethane	20.0	17.1		ug/L		86	73 - 120
1,1,2,2-Tetrachloroethane	20.0	22.3		ug/L		112	72 - 120
1,1,2-Trichloroethane	20.0	21.8		ug/L		109	80 - 120
1,1-Dichloroethane	20.0	19.9		ug/L		99	80 - 120
1,1-Dichloroethene	20.0	16.9		ug/L		84	80 - 131
1,2-Dibromoethane (EDB)	20.0	21.7		ug/L		108	77 - 120
1,2-Dichloroethane	20.0	19.2		ug/L		96	73 - 124
1,2-Dichloropropane	20.0	21.0		ug/L		105	80 - 120
2-Butanone (MEK)	250	281		ug/L		112	59 - 135
2-Hexanone	250	308		ug/L		123	56 - 135
4-Methyl-2-pentanone (MIBK)	250	268		ug/L		107	62 - 133
Acetone	250	299		ug/L		120	57 - 143
Benzene	20.0	19.3		ug/L		97	80 - 120
Bromochloromethane	20.0	19.3		ug/L		96	80 - 120
Bromodichloromethane	20.0	19.6		ug/L		98	71 - 120
Bromoform	20.0	21.2		ug/L		106	51 - 120
Bromomethane	20.0	17.9		ug/L		89	53 - 128
Carbon disulfide	20.0	17.2		ug/L		86	65 - 128
Carbon tetrachloride	20.0	17.6		ug/L		88	64 - 134
Chlorobenzene	20.0	20.6		ug/L		103	80 - 120
Chloroethane	20.0	19.8		ug/L		99	55 - 123
Chloroform	20.0	18.0		ug/L		90	80 - 120
Chloromethane	20.0	21.6		ug/L		108	39 - 134
cis-1,2-Dichloroethene	20.0	18.7		ug/L		94	80 - 125
cis-1,3-Dichloropropene	20.0	17.3		ug/L		86	75 - 120
Dibromochloromethane	20.0	22.0		ug/L		110	71 - 120
Ethylbenzene	20.0	19.4		ug/L		97	80 - 120
Methyl tert-butyl ether	20.0	17.1		ug/L		85	69 - 122
Methylene Chloride	20.0	17.1		ug/L		86	80 - 120
Styrene	20.0	18.7		ug/L		94	80 - 120
Tetrachloroethene	20.0	19.9		ug/L		99	80 - 120
Toluene	20.0	20.7		ug/L		103	80 - 120
trans-1,2-Dichloroethene	20.0	17.7		ug/L		89	80 - 126
trans-1,3-Dichloropropene	20.0	19.3		ug/L		96	67 - 120
Trichloroethene	20.0	18.1		ug/L		91	80 - 120
Vinyl chloride	20.0	19.3		ug/L		96	56 - 120
Xylenes, Total	60.0	57.9		ug/L		97	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	95		80 - 120
Toluene-d8 (Surr)	107		80 - 120

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 410-191048-3 MS

Matrix: Water

Analysis Batch: 560875

Client Sample ID: HD-MW-18D-0/1-0MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		20.0	21.0		ug/L		105	75 - 120
1,1,1-Trichloroethane	ND		20.0	19.5		ug/L		98	68 - 120
1,1,2,2-Tetrachloroethane	ND		20.0	21.5		ug/L		107	71 - 122
1,1,2-Trichloroethane	ND		20.0	21.8		ug/L		109	80 - 120
1,1-Dichloroethane	ND		20.0	22.0		ug/L		110	74 - 120
1,1-Dichloroethene	ND	^c cn	20.0	19.3		ug/L		97	74 - 121
1,2-Dibromoethane (EDB)	ND		20.0	21.2		ug/L		106	80 - 120
1,2-Dichloroethane	ND		20.0	20.3		ug/L		102	69 - 120
1,2-Dichloropropane	ND		20.0	22.7		ug/L		113	77 - 120
2-Butanone (MEK)	ND		250	269		ug/L		108	65 - 131
2-Hexanone	ND	^c cn	250	283		ug/L		113	67 - 132
4-Methyl-2-pentanone (MIBK)	ND		250	258		ug/L		103	66 - 129
Acetone	ND	^c cn	250	274		ug/L		110	58 - 141
Benzene	ND		20.0	21.7		ug/L		108	81 - 120
Bromochloromethane	ND		20.0	20.3		ug/L		102	76 - 126
Bromodichloromethane	ND		20.0	20.8		ug/L		104	73 - 120
Bromoform	ND		20.0	20.6		ug/L		103	64 - 125
Bromomethane	ND		20.0	20.8		ug/L		104	43 - 128
Carbon disulfide	ND		20.0	20.4		ug/L		102	75 - 132
Carbon tetrachloride	ND		20.0	20.9		ug/L		105	63 - 128
Chlorobenzene	ND		20.0	22.3		ug/L		111	80 - 120
Chloroethane	ND		20.0	22.5		ug/L		112	60 - 121
Chloroform	ND		20.0	19.7		ug/L		98	74 - 120
Chloromethane	ND		20.0	24.7		ug/L		123	49 - 126
cis-1,2-Dichloroethene	7.3		20.0	28.5		ug/L		106	81 - 121
cis-1,3-Dichloropropene	ND		20.0	17.6		ug/L		88	71 - 120
Dibromochloromethane	ND		20.0	22.4		ug/L		112	74 - 120
Ethylbenzene	ND		20.0	20.9		ug/L		105	78 - 120
Methyl tert-butyl ether	ND		20.0	17.0		ug/L		85	75 - 120
Methylene Chloride	ND		20.0	18.4		ug/L		92	77 - 120
Styrene	ND		20.0	19.7		ug/L		99	78 - 120
Tetrachloroethene	ND		20.0	22.9		ug/L		114	68 - 125
Toluene	ND		20.0	22.4		ug/L		112	79 - 120
trans-1,2-Dichloroethene	ND		20.0	20.7		ug/L		103	74 - 120
trans-1,3-Dichloropropene	ND		20.0	18.8		ug/L		94	72 - 120
Trichloroethene	1.3		20.0	22.2		ug/L		105	76 - 120
Vinyl chloride	ND		20.0	24.0		ug/L		120	52 - 120
Xylenes, Total	ND		60.0	61.9		ug/L		103	78 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	106		80 - 120

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 410-191048-3 MSD

Matrix: Water

Analysis Batch: 560875

Client Sample ID: HD-MW-18D-0/1-0MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		20.0	22.1		ug/L		111	75 - 120	5	30
1,1,1-Trichloroethane	ND		20.0	20.3		ug/L		102	68 - 120	4	30
1,1,2,2-Tetrachloroethane	ND		20.0	23.2		ug/L		116	71 - 122	8	30
1,1,2-Trichloroethane	ND		20.0	23.4		ug/L		117	80 - 120	7	30
1,1-Dichloroethane	ND		20.0	23.5		ug/L		118	74 - 120	7	30
1,1-Dichloroethene	ND	^c cn	20.0	20.2		ug/L		101	74 - 121	5	30
1,2-Dibromoethane (EDB)	ND		20.0	22.4		ug/L		112	80 - 120	5	30
1,2-Dichloroethane	ND		20.0	21.0		ug/L		105	69 - 120	3	30
1,2-Dichloropropane	ND		20.0	23.4		ug/L		117	77 - 120	3	30
2-Butanone (MEK)	ND		250	288		ug/L		115	65 - 131	6	30
2-Hexanone	ND	^c cn	250	300		ug/L		120	67 - 132	6	30
4-Methyl-2-pentanone (MIBK)	ND		250	273		ug/L		109	66 - 129	6	30
Acetone	ND	^c cn	250	311		ug/L		124	58 - 141	12	30
Benzene	ND		20.0	22.6		ug/L		113	81 - 120	4	30
Bromochloromethane	ND		20.0	21.4		ug/L		107	76 - 126	5	30
Bromodichloromethane	ND		20.0	21.5		ug/L		108	73 - 120	3	30
Bromoform	ND		20.0	21.4		ug/L		107	64 - 125	4	30
Bromomethane	ND		20.0	20.6		ug/L		103	43 - 128	1	30
Carbon disulfide	ND		20.0	21.6		ug/L		108	75 - 132	6	30
Carbon tetrachloride	ND		20.0	21.4		ug/L		107	63 - 128	2	30
Chlorobenzene	ND		20.0	23.1		ug/L		116	80 - 120	4	30
Chloroethane	ND		20.0	23.5		ug/L		117	60 - 121	4	30
Chloroform	ND		20.0	20.5		ug/L		102	74 - 120	4	30
Chloromethane	ND		20.0	24.1		ug/L		120	49 - 126	2	30
cis-1,2-Dichloroethene	7.3		20.0	29.9		ug/L		113	81 - 121	5	30
cis-1,3-Dichloropropene	ND		20.0	18.1		ug/L		91	71 - 120	3	30
Dibromochloromethane	ND		20.0	23.3		ug/L		116	74 - 120	4	30
Ethylbenzene	ND		20.0	22.3		ug/L		112	78 - 120	6	30
Methyl tert-butyl ether	ND		20.0	17.6		ug/L		88	75 - 120	3	30
Methylene Chloride	ND		20.0	19.3		ug/L		97	77 - 120	5	30
Styrene	ND		20.0	21.2		ug/L		106	78 - 120	7	30
Tetrachloroethene	ND		20.0	23.6		ug/L		118	68 - 125	3	30
Toluene	ND		20.0	23.4		ug/L		117	79 - 120	5	30
trans-1,2-Dichloroethene	ND		20.0	21.8		ug/L		109	74 - 120	6	30
trans-1,3-Dichloropropene	ND		20.0	19.4		ug/L		97	72 - 120	3	30
Trichloroethene	1.3		20.0	22.9		ug/L		108	76 - 120	3	30
Vinyl chloride	ND		20.0	23.7		ug/L		118	52 - 120	1	30
Xylenes, Total	ND		60.0	66.0		ug/L		110	78 - 120	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	96		80 - 120
Toluene-d8 (Surr)	106		80 - 120

QC Sample Results

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-560989/10
Matrix: Water
Analysis Batch: 560989

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 11:33	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 11:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/09/24 11:33	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/09/24 11:33	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 11:33	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/09/24 11:33	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/09/24 11:33	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/09/24 11:33	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/09/24 11:33	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/09/24 11:33	1
2-Hexanone	ND		10	0.85	ug/L			10/09/24 11:33	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/09/24 11:33	1
Acetone	ND		20	0.70	ug/L			10/09/24 11:33	1
Benzene	ND		1.0	0.30	ug/L			10/09/24 11:33	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/09/24 11:33	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/09/24 11:33	1
Bromoform	ND		4.0	1.0	ug/L			10/09/24 11:33	1
Bromomethane	ND		1.0	0.30	ug/L			10/09/24 11:33	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/09/24 11:33	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/09/24 11:33	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/09/24 11:33	1
Chloroethane	ND		1.0	0.30	ug/L			10/09/24 11:33	1
Chloroform	ND		1.0	0.30	ug/L			10/09/24 11:33	1
Chloromethane	ND		2.0	0.55	ug/L			10/09/24 11:33	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/09/24 11:33	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 11:33	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/09/24 11:33	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/09/24 11:33	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/09/24 11:33	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/09/24 11:33	1
Styrene	ND		5.0	0.30	ug/L			10/09/24 11:33	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/09/24 11:33	1
Toluene	ND		1.0	0.30	ug/L			10/09/24 11:33	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/09/24 11:33	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/09/24 11:33	1
Trichloroethene	ND		1.0	0.30	ug/L			10/09/24 11:33	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/09/24 11:33	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/09/24 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		10/09/24 11:33	1
4-Bromofluorobenzene (Surr)	90		80 - 120		10/09/24 11:33	1
Dibromofluoromethane (Surr)	99		80 - 120		10/09/24 11:33	1
Toluene-d8 (Surr)	104		80 - 120		10/09/24 11:33	1

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-560989/7

Matrix: Water

Analysis Batch: 560989

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	20.6		ug/L		103	79 - 120
1,1,1-Trichloroethane	20.0	17.9		ug/L		89	73 - 120
1,1,2,2-Tetrachloroethane	20.0	22.6		ug/L		113	72 - 120
1,1,2-Trichloroethane	20.0	22.2		ug/L		111	80 - 120
1,1-Dichloroethane	20.0	21.1		ug/L		106	80 - 120
1,1-Dichloroethene	20.0	18.8		ug/L		94	80 - 131
1,2-Dibromoethane (EDB)	20.0	20.7		ug/L		104	77 - 120
1,2-Dichloroethane	20.0	19.6		ug/L		98	73 - 124
1,2-Dichloropropane	20.0	21.5		ug/L		108	80 - 120
2-Butanone (MEK)	250	274		ug/L		110	59 - 135
2-Hexanone	250	281		ug/L		113	56 - 135
4-Methyl-2-pentanone (MIBK)	250	260		ug/L		104	62 - 133
Acetone	250	289		ug/L		116	57 - 143
Benzene	20.0	20.2		ug/L		101	80 - 120
Bromochloromethane	20.0	19.6		ug/L		98	80 - 120
Bromodichloromethane	20.0	19.5		ug/L		98	71 - 120
Bromoform	20.0	19.8		ug/L		99	51 - 120
Bromomethane	20.0	17.1		ug/L		85	53 - 128
Carbon disulfide	20.0	19.4		ug/L		97	65 - 128
Carbon tetrachloride	20.0	18.3		ug/L		92	64 - 134
Chlorobenzene	20.0	20.3		ug/L		101	80 - 120
Chloroethane	20.0	19.8		ug/L		99	55 - 123
Chloroform	20.0	18.9		ug/L		94	80 - 120
Chloromethane	20.0	20.5		ug/L		102	39 - 134
cis-1,2-Dichloroethene	20.0	19.6		ug/L		98	80 - 125
cis-1,3-Dichloropropene	20.0	17.8		ug/L		89	75 - 120
Dibromochloromethane	20.0	21.9		ug/L		109	71 - 120
Ethylbenzene	20.0	19.6		ug/L		98	80 - 120
Methyl tert-butyl ether	20.0	17.1		ug/L		85	69 - 122
Methylene Chloride	20.0	18.8		ug/L		94	80 - 120
Styrene	20.0	18.2		ug/L		91	80 - 120
Tetrachloroethene	20.0	20.2		ug/L		101	80 - 120
Toluene	20.0	20.6		ug/L		103	80 - 120
trans-1,2-Dichloroethene	20.0	19.2		ug/L		96	80 - 126
trans-1,3-Dichloropropene	20.0	19.7		ug/L		98	67 - 120
Trichloroethene	20.0	18.8		ug/L		94	80 - 120
Vinyl chloride	20.0	18.5		ug/L		92	56 - 120
Xylenes, Total	60.0	58.0		ug/L		97	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120
Toluene-d8 (Surr)	106		80 - 120

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-560989/8
Matrix: Water
Analysis Batch: 560989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.8		ug/L		104	79 - 120	1	30
1,1,1-Trichloroethane	20.0	17.9		ug/L		89	73 - 120	0	30
1,1,2,2-Tetrachloroethane	20.0	21.8		ug/L		109	72 - 120	4	30
1,1,2-Trichloroethane	20.0	22.4		ug/L		112	80 - 120	1	30
1,1-Dichloroethane	20.0	21.1		ug/L		106	80 - 120	0	30
1,1-Dichloroethene	20.0	18.2		ug/L		91	80 - 131	3	30
1,2-Dibromoethane (EDB)	20.0	21.1		ug/L		106	77 - 120	2	30
1,2-Dichloroethane	20.0	19.3		ug/L		96	73 - 124	1	30
1,2-Dichloropropane	20.0	21.6		ug/L		108	80 - 120	0	30
2-Butanone (MEK)	250	274		ug/L		110	59 - 135	0	30
2-Hexanone	250	295		ug/L		118	56 - 135	5	30
4-Methyl-2-pentanone (MIBK)	250	264		ug/L		106	62 - 133	1	30
Acetone	250	290		ug/L		116	57 - 143	0	30
Benzene	20.0	20.5		ug/L		102	80 - 120	1	30
Bromochloromethane	20.0	19.1		ug/L		96	80 - 120	2	30
Bromodichloromethane	20.0	19.7		ug/L		99	71 - 120	1	30
Bromoform	20.0	20.1		ug/L		100	51 - 120	1	30
Bromomethane	20.0	17.5		ug/L		87	53 - 128	2	30
Carbon disulfide	20.0	19.3		ug/L		96	65 - 128	1	30
Carbon tetrachloride	20.0	18.8		ug/L		94	64 - 134	2	30
Chlorobenzene	20.0	20.9		ug/L		105	80 - 120	3	30
Chloroethane	20.0	19.7		ug/L		99	55 - 123	0	30
Chloroform	20.0	18.6		ug/L		93	80 - 120	1	30
Chloromethane	20.0	20.8		ug/L		104	39 - 134	2	30
cis-1,2-Dichloroethene	20.0	19.7		ug/L		98	80 - 125	0	30
cis-1,3-Dichloropropene	20.0	18.0		ug/L		90	75 - 120	1	30
Dibromochloromethane	20.0	21.8		ug/L		109	71 - 120	1	30
Ethylbenzene	20.0	20.4		ug/L		102	80 - 120	4	30
Methyl tert-butyl ether	20.0	16.9		ug/L		85	69 - 122	1	30
Methylene Chloride	20.0	18.1		ug/L		91	80 - 120	4	30
Styrene	20.0	19.2		ug/L		96	80 - 120	5	30
Tetrachloroethene	20.0	20.8		ug/L		104	80 - 120	2	30
Toluene	20.0	21.8		ug/L		109	80 - 120	5	30
trans-1,2-Dichloroethene	20.0	19.0		ug/L		95	80 - 126	1	30
trans-1,3-Dichloropropene	20.0	19.8		ug/L		99	67 - 120	1	30
Trichloroethene	20.0	19.1		ug/L		95	80 - 120	1	30
Vinyl chloride	20.0	18.9		ug/L		95	56 - 120	2	30
Xylenes, Total	60.0	59.7		ug/L		100	80 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	95		80 - 120
Toluene-d8 (Surr)	107		80 - 120

QC Association Summary

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

GC/MS VOA

Analysis Batch: 560875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-191048-1	HD-MW-18S-0/1-0	Total/NA	Water	8260D	
410-191048-2	HD-MW-111-0/1-0	Total/NA	Water	8260D	
410-191048-3	HD-MW-18D-0/1-0	Total/NA	Water	8260D	
410-191048-4	HD-GM-1D-0/1-0	Total/NA	Water	8260D	
410-191048-5	HD-MW-150-0/1-0	Total/NA	Water	8260D	
410-191048-6	HD-Cole D-0/1-0	Total/NA	Water	8260D	
410-191048-7	HD-MW-69-0/1-0	Total/NA	Water	8260D	
410-191048-8	HD-QC2-0/1-1	Total/NA	Water	8260D	
410-191048-9	HD-Cole Steel MW-12-0/1-0	Total/NA	Water	8260D	
410-191048-10	HD-MW-165-0/1-0	Total/NA	Water	8260D	
410-191048-11	HD-FOLK (RW-4)-0/1-0	Total/NA	Water	8260D	
410-191048-12	HD-MW-43D-0/1-0	Total/NA	Water	8260D	
410-191048-13	HD-MW-16S-0/1-0	Total/NA	Water	8260D	
410-191048-14	HD-MW-82-0/1-0	Total/NA	Water	8260D	
MB 410-560875/6	Method Blank	Total/NA	Water	8260D	
LCS 410-560875/4	Lab Control Sample	Total/NA	Water	8260D	
410-191048-3 MS	HD-MW-18D-0/1-0MS	Total/NA	Water	8260D	
410-191048-3 MSD	HD-MW-18D-0/1-0MSD	Total/NA	Water	8260D	

Analysis Batch: 560989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-191048-15	HD-QC2-0/1-3	Total/NA	Water	8260D	
410-191048-16	HD-QC2-0/1-4	Total/NA	Water	8260D	
410-191048-17	HD-QC3-0/1-2	Total/NA	Water	8260D	
410-191048-18	HD-MW-110-0/1-0	Total/NA	Water	8260D	
MB 410-560989/10	Method Blank	Total/NA	Water	8260D	
LCS 410-560989/7	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-560989/8	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-MW-18S-0/1-0

Lab Sample ID: 410-191048-1

Date Collected: 10/02/24 08:55

Matrix: Water

Date Received: 10/04/24 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560875	JS6E	ELLE	10/09/24 00:11

Client Sample ID: HD-MW-111-0/1-0

Lab Sample ID: 410-191048-2

Date Collected: 10/02/24 13:40

Matrix: Water

Date Received: 10/04/24 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560875	JS6E	ELLE	10/09/24 00:33

Client Sample ID: HD-MW-18D-0/1-0

Lab Sample ID: 410-191048-3

Date Collected: 10/02/24 14:52

Matrix: Water

Date Received: 10/04/24 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560875	JS6E	ELLE	10/09/24 00:56

Client Sample ID: HD-GM-1D-0/1-0

Lab Sample ID: 410-191048-4

Date Collected: 10/03/24 09:00

Matrix: Water

Date Received: 10/04/24 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560875	JS6E	ELLE	10/09/24 02:03

Client Sample ID: HD-MW-150-0/1-0

Lab Sample ID: 410-191048-5

Date Collected: 10/03/24 11:15

Matrix: Water

Date Received: 10/04/24 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560875	JS6E	ELLE	10/09/24 02:25

Client Sample ID: HD-Cole D-0/1-0

Lab Sample ID: 410-191048-6

Date Collected: 10/03/24 12:30

Matrix: Water

Date Received: 10/04/24 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560875	JS6E	ELLE	10/09/24 02:48

Client Sample ID: HD-MW-69-0/1-0

Lab Sample ID: 410-191048-7

Date Collected: 10/03/24 14:18

Matrix: Water

Date Received: 10/04/24 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560875	JS6E	ELLE	10/09/24 03:10

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-QC2-0/1-1

Lab Sample ID: 410-191048-8

Date Collected: 10/03/24 08:00

Matrix: Water

Date Received: 10/04/24 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560875	JS6E	ELLE	10/09/24 03:33

Client Sample ID: HD-Cole Steel MW-12-0/1-0

Lab Sample ID: 410-191048-9

Date Collected: 10/04/24 09:43

Matrix: Water

Date Received: 10/04/24 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560875	JS6E	ELLE	10/09/24 03:55

Client Sample ID: HD-MW-165-0/1-0

Lab Sample ID: 410-191048-10

Date Collected: 10/04/24 10:05

Matrix: Water

Date Received: 10/04/24 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560875	JS6E	ELLE	10/09/24 04:18

Client Sample ID: HD-FOLK (RW-4)-0/1-0

Lab Sample ID: 410-191048-11

Date Collected: 10/04/24 11:30

Matrix: Water

Date Received: 10/04/24 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560875	JS6E	ELLE	10/09/24 04:40

Client Sample ID: HD-MW-43D-0/1-0

Lab Sample ID: 410-191048-12

Date Collected: 10/04/24 10:20

Matrix: Water

Date Received: 10/04/24 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560875	JS6E	ELLE	10/09/24 05:03

Client Sample ID: HD-MW-16S-0/1-0

Lab Sample ID: 410-191048-13

Date Collected: 10/04/24 11:40

Matrix: Water

Date Received: 10/04/24 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560875	JS6E	ELLE	10/09/24 05:25

Client Sample ID: HD-MW-82-0/1-0

Lab Sample ID: 410-191048-14

Date Collected: 10/04/24 12:25

Matrix: Water

Date Received: 10/04/24 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560875	JS6E	ELLE	10/09/24 05:47

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Client Sample ID: HD-QC2-0/1-3
Date Collected: 10/04/24 11:55
Date Received: 10/04/24 15:13

Lab Sample ID: 410-191048-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560989	TQ4J	ELLE	10/09/24 17:34

Client Sample ID: HD-QC2-0/1-4
Date Collected: 10/04/24 12:00
Date Received: 10/04/24 15:13

Lab Sample ID: 410-191048-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560989	TQ4J	ELLE	10/09/24 17:56

Client Sample ID: HD-QC3-0/1-2
Date Collected: 10/02/24 00:00
Date Received: 10/04/24 15:13

Lab Sample ID: 410-191048-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560989	TQ4J	ELLE	10/09/24 18:19

Client Sample ID: HD-MW-110-0/1-0
Date Collected: 10/03/24 14:02
Date Received: 10/04/24 15:13

Lab Sample ID: 410-191048-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	560989	TQ4J	ELLE	10/09/24 18:41

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-25

Method Summary

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191048-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE

Protocol References:
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-191048-1	HD-MW-18S-0/1-0	Water	10/02/24 08:55	10/04/24 15:13
410-191048-2	HD-MW-111-0/1-0	Water	10/02/24 13:40	10/04/24 15:13
410-191048-3	HD-MW-18D-0/1-0	Water	10/02/24 14:52	10/04/24 15:13
410-191048-4	HD-GM-1D-0/1-0	Water	10/03/24 09:00	10/04/24 15:13
410-191048-5	HD-MW-150-0/1-0	Water	10/03/24 11:15	10/04/24 15:13
410-191048-6	HD-Cole D-0/1-0	Water	10/03/24 12:30	10/04/24 15:13
410-191048-7	HD-MW-69-0/1-0	Water	10/03/24 14:18	10/04/24 15:13
410-191048-8	HD-QC2-0/1-1	Water	10/03/24 08:00	10/04/24 15:13
410-191048-9	HD-Cole Steel MW-12-0/1-0	Water	10/04/24 09:43	10/04/24 15:13
410-191048-10	HD-MW-165-0/1-0	Water	10/04/24 10:05	10/04/24 15:13
410-191048-11	HD-FOLK (RW-4)-0/1-0	Water	10/04/24 11:30	10/04/24 15:13
410-191048-12	HD-MW-43D-0/1-0	Water	10/04/24 10:20	10/04/24 15:13
410-191048-13	HD-MW-16S-0/1-0	Water	10/04/24 11:40	10/04/24 15:13
410-191048-14	HD-MW-82-0/1-0	Water	10/04/24 12:25	10/04/24 15:13
410-191048-15	HD-QC2-0/1-3	Water	10/04/24 11:55	10/04/24 15:13
410-191048-16	HD-QC2-0/1-4	Water	10/04/24 12:00	10/04/24 15:13
410-191048-17	HD-QC3-0/1-2	Water	10/02/24 00:00	10/04/24 15:13
410-191048-18	HD-MW-110-0/1-0	Water	10/03/24 14:02	10/04/24 15:13

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Instrument ID: 9915

Analysis Batch Number: 528230

Lab Sample ID: IC 410-528230/3

Client Sample ID:

Date Analyzed: 07/15/24 14:18

Lab File ID: LL15X02.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	3.08	Incomplete Integration	UKEK	07/16/24 19:24
Acetonitrile	3.87	Incomplete Integration	DVW2	07/16/24 08:01
n-Propyl acetate	8.62	Incomplete Integration	DVW2	07/16/24 08:01

Lab Sample ID: IC 410-528230/12

Client Sample ID:

Date Analyzed: 07/15/24 17:41

Lab File ID: LL15X11.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.25	Baseline	UKEK	07/16/24 19:17
Acrolein	3.35	Incomplete Integration	DVW2	07/16/24 07:48
1,1-Dichloroethene	3.51	Incomplete Integration	DVW2	07/16/24 07:48
Allyl chloride	3.92	Baseline	UKEK	07/16/24 20:45
Methyl acetate	3.93	Split Peak	UKEK	07/16/24 20:13
Methylene Chloride	4.13	Incomplete Integration	DVW2	07/16/24 07:49
t-Butyl alcohol	4.30	Incomplete Integration	DVW2	07/16/24 07:49
Acrylonitrile	4.45	Incomplete Integration	DVW2	07/16/24 07:49
Methyl tert-butyl ether	4.54	Incomplete Integration	DVW2	07/16/24 07:49
Ethyl t-butyl ether	5.78	Incomplete Integration	DVW2	07/16/24 07:49
t-Amyl methyl ether	7.42	Incomplete Integration	DVW2	07/16/24 07:49
1,4-Dioxane	8.53	Incomplete Integration	DVW2	07/16/24 07:50
Methyl methacrylate	8.54	Incomplete Integration	DVW2	07/16/24 07:49
2-Chloroethyl vinyl ether	9.16	Incomplete Integration	DVW2	07/16/24 07:50
1-Chlorohexane	11.14	Incomplete Integration	DVW2	07/16/24 07:50
1,3,5-Trimethylbenzene	12.46	Incomplete Integration	DVW2	07/16/24 07:50

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Instrument ID: 9915

Analysis Batch Number: 528230

Lab Sample ID: IC 410-528230/13

Client Sample ID:

Date Analyzed: 07/15/24 18:04

Lab File ID: LL15X12.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.50	Incomplete Integration	DVW2	07/16/24 07:51
Methyl acrylate	6.16	Peak assignment corrected	DVW2	07/16/24 08:30
Ethyl acrylate	8.24	Peak assignment corrected	DVW2	07/16/24 08:30
1,4-Dioxane	8.54	Incomplete Integration	DVW2	07/16/24 07:51
Methyl methacrylate	8.54	Incomplete Integration	DVW2	07/16/24 07:51
1-Chlorohexane	11.14	Incomplete Integration	DVW2	07/16/24 07:51
n-Butyl acrylate	11.64	Peak assignment corrected	DVW2	07/16/24 08:30
2-Ethylhexyl acrylate	14.44	Peak assignment corrected	DVW2	07/16/24 08:30

Lab Sample ID: IC 410-528230/14

Client Sample ID:

Date Analyzed: 07/15/24 18:26

Lab File ID: LL15X13.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Propanol	3.65	Split Peak	UKEK	07/16/24 20:04
Methylene Chloride	4.13	Incomplete Integration	DVW2	07/16/24 07:52
Methyl acrylate	6.13	Peak assignment corrected	DVW2	07/16/24 08:31
Ethyl acrylate	8.22	Peak assignment corrected	DVW2	07/16/24 08:31
n-Butyl acrylate	11.64	Peak assignment corrected	DVW2	07/16/24 08:30
2-Ethylhexyl acrylate	14.44	Peak assignment corrected	DVW2	07/16/24 08:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Instrument ID: 9915

Analysis Batch Number: 528230

Lab Sample ID: IC 410-528230/15

Client Sample ID:

Date Analyzed: 07/15/24 18:49

Lab File ID: LL15X14.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acrylate	6.13	Peak assignment corrected	DVW2	07/16/24 08:31
Ethyl acrylate	8.23	Peak assignment corrected	DVW2	07/16/24 08:31
n-Butyl acrylate	11.64	Peak assignment corrected	DVW2	07/16/24 08:31
1,1,2,2-Tetrachloroethane	12.23	Incomplete Integration	DVW2	07/16/24 07:54
tert-Butylbenzene	12.70	Incomplete Integration	DVW2	07/16/24 07:54
2-Ethylhexyl acrylate	14.44	Peak assignment corrected	DVW2	07/16/24 08:31

Lab Sample ID: ICIS 410-528230/16

Client Sample ID:

Date Analyzed: 07/15/24 19:11

Lab File ID: LL15X15.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acrylate	6.14	Peak assignment corrected	DVW2	07/16/24 08:29
Ethyl acrylate	8.23	Peak assignment corrected	DVW2	07/16/24 08:29
n-Butyl acrylate	11.64	Peak assignment corrected	DVW2	07/16/24 08:29
2-Ethylhexyl acrylate	14.44	Peak assignment corrected	DVW2	07/16/24 08:29

Lab Sample ID: IC 410-528230/17

Client Sample ID:

Date Analyzed: 07/15/24 19:34

Lab File ID: LL15X16.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Propanol	3.66	Baseline	UKEK	07/16/24 20:14
t-Butyl alcohol	4.30	Incomplete Integration	DVW2	07/16/24 07:55
Methyl acrylate	6.13	Peak assignment corrected	DVW2	07/16/24 08:31
Ethyl acrylate	8.22	Peak assignment corrected	DVW2	07/16/24 08:31
n-Butyl acrylate	11.64	Peak assignment corrected	DVW2	07/16/24 08:31
2-Ethylhexyl acrylate	14.44	Peak assignment corrected	DVW2	07/16/24 08:31

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Instrument ID: 9915

Analysis Batch Number: 528230

Lab Sample ID: IC 410-528230/18

Client Sample ID:

Date Analyzed: 07/15/24 19:57

Lab File ID: LL15X17.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol	4.32	Incomplete Integration	DVW2	07/16/24 07:57
Methyl acrylate	6.13	Peak assignment corrected	DVW2	07/16/24 08:32
Ethyl acrylate	8.23	Peak assignment corrected	DVW2	07/16/24 08:32
1,4-Dioxane	8.53	Incomplete Integration	DVW2	07/16/24 07:58
n-Butyl acrylate	11.64	Peak assignment corrected	DVW2	07/16/24 08:32
2-Ethylhexyl acrylate	14.44	Peak assignment corrected	DVW2	07/16/24 08:32

Lab Sample ID: ICV 410-528230/20

Client Sample ID:

Date Analyzed: 07/15/24 20:42

Lab File ID: LL15X19.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol	4.34	Incomplete Integration	DVW2	07/16/24 07:59
1,4-Dioxane	8.53	Incomplete Integration	DVW2	07/16/24 07:59

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Instrument ID: 9915

Analysis Batch Number: 560875

Lab Sample ID: CCVIS 410-560875/3

Client Sample ID:

Date Analyzed: 10/08/24 20:49

Lab File ID: LC08X32.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.95	Incomplete Integration	JS6E	10/08/24 21:21
1,4-Dioxane	8.53	Wrong peak	JS6E	10/08/24 21:23

Lab Sample ID: LCS 410-560875/4

Client Sample ID:

Date Analyzed: 10/08/24 21:12

Lab File ID: LC08X33.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane-d4 (Surr)	7.18	Incomplete Integration	JS6E	10/08/24 21:38

Lab Sample ID: 410-191048-1

Client Sample ID: HD-MW-18S-0/1-0

Date Analyzed: 10/09/24 00:11

Lab File ID: LC08X41.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride		Invalid Compound ID	FQ4L	10/09/24 15:01

Lab Sample ID: 410-191048-2

Client Sample ID: HD-MW-111-0/1-0

Date Analyzed: 10/09/24 00:33

Lab File ID: LC08X42.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.47	Incomplete Integration	FQ4L	10/09/24 14:58
cis-1,2-Dichloroethene	6.03	Baseline	UKEK	10/09/24 13:49
Trichloroethene	8.13	Incomplete Integration	FQ4L	10/09/24 14:59

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Instrument ID: 9915

Analysis Batch Number: 560875

Lab Sample ID: 410-191048-3

Client Sample ID: HD-MW-18D-0/1-0

Date Analyzed: 10/09/24 00:56

Lab File ID: LC08X43.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride		Invalid Compound ID	FQ4L	10/09/24 14:55
Chlorobenzene-d5 (IS)	11.13	Incomplete Integration	FQ4L	10/09/24 14:55

Lab Sample ID: 410-191048-4

Client Sample ID: HD-GM-1D-0/1-0

Date Analyzed: 10/09/24 02:03

Lab File ID: LC08X46.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toluene	9.73	Incomplete Integration	FQ4L	10/09/24 14:48

Lab Sample ID: 410-191048-6

Client Sample ID: HD-Cole D-0/1-0

Date Analyzed: 10/09/24 02:48

Lab File ID: LC08X48.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	8.11	Incomplete Integration	FQ4L	10/09/24 14:46

Lab Sample ID: 410-191048-9

Client Sample ID: HD-Cole Steel MW-12-0/1-0

Date Analyzed: 10/09/24 03:55

Lab File ID: LC08X51.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloroethene	10.29	Incomplete Integration	TQ4J	10/09/24 08:49

Lab Sample ID: 410-191048-12

Client Sample ID: HD-MW-43D-0/1-0

Date Analyzed: 10/09/24 05:03

Lab File ID: LC08X54.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	6.03	Invalid Compound ID	TQ4J	10/09/24 08:51

8260D

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Instrument ID: 9915

Analysis Batch Number: 560989

Lab Sample ID: 410-191048-17

Client Sample ID: HD-QC3-0/1-2

Date Analyzed: 10/09/24 18:19

Lab File ID: LC09X27.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane-d4 (Surr)	7.18	Incomplete Integration	N9NA	10/10/24 07:59

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_4ppbEE_00593	07/19/24	07/14/24	DI Water, Lot DI 23226	1000 mL	MSV_CCV_2CEVE_00182	4 uL	2-Chloroethyl vinyl ether	4 ug/L
					MSV_CCV_CYC_00009	32 uL	Cyclohexanone	200.013 ug/L
					MSV_CCV_EE_00007	4 uL	Ethyl ether	3.99959 ug/L
					MSV_CCV_GASES_00799	2 uL	1,2-Dichloro-1,1,2-trifluoroethane	4 ug/L
							Bromomethane	4 ug/L
							Butadiene	4 ug/L
							Chloroethane	4 ug/L
							Chloromethane	4 ug/L
							Dichlorodifluoromethane	4 ug/L
							Dichlorofluoromethane	4 ug/L
							Trichlorofluoromethane	4 ug/L
							Vinyl chloride	4 ug/L
					MSV_CCV_VOC#1_00190	4 uL	1,1,1,2-Tetrachloroethane	4 ug/L
							1,1,1-Trichloroethane	4 ug/L
							1,1,2,2-Tetrachloroethane	4 ug/L
							1,1,2-Trichloroethane	4 ug/L
							1,1-Dichloroethane	4 ug/L
							1,1-Dichloroethene	4 ug/L
							1,1-Dichloropropene	4 ug/L
							1,2,3-Trichlorobenzene	4 ug/L
							1,2,3-Trichloropropane	4 ug/L
							1,2,4-Trichlorobenzene	4 ug/L
							1,2,4-Trimethylbenzene	4 ug/L
							1,2-Dibromo-3-Chloropropane	4 ug/L
							1,2-Dibromoethane (EDB)	4 ug/L
							1,2-Dichlorobenzene	4 ug/L
							1,2-Dichloroethane	4 ug/L
							1,2-Dichloropropane	4 ug/L
							1,3,5-Trimethylbenzene	4 ug/L
							1,3-Dichlorobenzene	4 ug/L
							1,3-Dichloropropane	4 ug/L
							1,4-Dichlorobenzene	4 ug/L
							2,2-Dichloropropane	4 ug/L
							2-Chlorotoluene	4 ug/L
							4-Chlorotoluene	4 ug/L
							4-Isopropyltoluene	4 ug/L
							Benzene	4 ug/L
							Bromobenzene	4 ug/L
							Bromochloromethane	4 ug/L
							Bromodichloromethane	4 ug/L
							Bromoform	4 ug/L
							Carbon tetrachloride	4 ug/L
							Chlorobenzene	4 ug/L
							Chloroform	4 ug/L
							cis-1,2-Dichloroethene	4 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	4 ug/L
							Dibromochloromethane	4 ug/L
							Dibromomethane	4 ug/L
							Ethylbenzene	4 ug/L
							Hexachlorobutadiene	4 ug/L
							Isopropylbenzene	4 ug/L
							m-Xylene & p-Xylene	8 ug/L
							Methylene Chloride	4 ug/L
							n-Butylbenzene	4 ug/L
							N-Propylbenzene	4 ug/L
							Naphthalene	4 ug/L
							o-Xylene	4 ug/L
							sec-Butylbenzene	4 ug/L
							Styrene	4 ug/L
							tert-Butylbenzene	4 ug/L
							Tetrachloroethene	4 ug/L
							Toluene	4 ug/L
							trans-1,2-Dichloroethene	4 ug/L
							trans-1,3-Dichloropropene	4 ug/L
							Trichloroethene	4 ug/L
							1,1,2-Trichloro-1,2,2-trifluor oethane	4 ug/L
							1,2,3-Trimethylbenzene	4 ug/L
							1,3,5-Trichlorobenzene	4 ug/L
							1,3-Diethylbenzene	4 ug/L
							1,4-Dioxane	50 ug/L
							1-Chlorohexane	4 ug/L
							2-Chloro-1,3-butadiene	4 ug/L
							2-ethoxy-2-methyl butane	4 ug/L
							2-Methyl-2-propanol	20 ug/L
							2-Methylnaphthalene	4 ug/L
							2-Nitropropane	20 ug/L
							3-Chloro-1-propene	4 ug/L
							Acrylonitrile	10 ug/L
							Benzyl chloride	4 ug/L
							Carbon disulfide	4 ug/L
							Cyclohexane	4 ug/L
							Ethyl methacrylate	4 ug/L
							Hexane	4 ug/L
							Iodomethane	4 ug/L
							Isobutyl alcohol	50 ug/L
							Isopropyl alcohol	20 ug/L
							Isopropyl ether	4 ug/L
							Methacrylonitrile	10 ug/L
							Methyl acetate	4 ug/L
							Methyl methacrylate	4 ug/L
							Methyl tert-butyl ether	4 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylcyclohexane	4 ug/L
							n-Butanol	50 ug/L
							n-Heptane	4 ug/L
							o-diethylbenzene	4 ug/L
							p-Diethylbenzene	4 ug/L
							Pentane	4 ug/L
							Propionitrile	20 ug/L
							Tert-amyl methyl ether	4 ug/L
							Tert-butyl ethyl ether	4 ug/L
							Tetrahydrofuran	20 ug/L
							trans-1,4-Dichloro-2-butene	10 ug/L
					MSV_CCV_VOC#3_00186	3.2 uL	Acrolein	40.087 ug/L
							2-Butanone (MEK)	8 ug/L
							2-Hexanone	8 ug/L
							4-Methyl-2-pentanone (MIBK)	8 ug/L
							Acetone	8 ug/L
.MSV_CCV_2CEVE_00182	07/30/24	06/30/24	Methanol, Lot EH471	5 mL	MSV_V_2CLEVE_00187	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00187	04/30/26		Restek, Lot A0197472		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_CCV_CYC_00009	01/10/25	07/10/24	50/50 MeOH/Water, Lot EH471	50 mL	MSV_VCYC_STK_00012	5.81 mL	Cyclohexanone	6250.4 ug/mL
..MSV_VCYC_STK_00012	01/10/25	07/10/24	50/50 MeOH/Water, Lot EH471	10 mL	MSV_CYC_00009	0.5379 g	Cyclohexanone	53790 ug/mL
...MSV_CYC_00009	06/30/27		Chem Service, Lot 14568900		(Purchased Reagent)		Cyclohexanone	1 g/g
.MSV_CCV_EE_00007	11/07/24	05/07/24	Methanol, Lot EH471	50 mL	MSV_EE_MISCSK_00014	0.917 mL	Ethyl ether	999.897 ug/mL
..MSV_EE_MISCSK_00014	11/07/24	05/07/24	Methanol, Lot EH471	10 mL	MSV_EE_Neat_00011	0.5452 g	Ethyl ether	54520 ug/mL
...MSV_EE_Neat_00011	06/30/27		Chem Service, Lot 14084700		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_CCV_GASES_00799	07/19/24		Restek, Lot A0212054		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
.MSV_CCV_VOC#1_00190	07/30/24	06/30/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00189	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00183	1 mL	1,1,2-Trichloro-1,2,2-trifluor oethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,3-Diethylbenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-ethoxy-2-methyl butane	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl alcohol	5000 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							o-diethylbenzene	1000 ug/mL
							p-Diethylbenzene	1000 ug/mL
							Pentane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00189	07/30/24	Restek, Lot A0197556			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	5000 ug/mL	
						1,1,1-Trichloroethane	5000 ug/mL	
						1,1,2,2-Tetrachloroethane	5000 ug/mL	
						1,1,2-Trichloroethane	5000 ug/mL	
						1,1-Dichloroethane	5000 ug/mL	
						1,1-Dichloroethene	5000 ug/mL	
						1,1-Dichloropropene	5000 ug/mL	
						1,2,3-Trichlorobenzene	5000 ug/mL	
						1,2,3-Trichloropropane	5000 ug/mL	
						1,2,4-Trichlorobenzene	5000 ug/mL	
						1,2,4-Trimethylbenzene	5000 ug/mL	
						1,2-Dibromo-3-Chloropropane	5000 ug/mL	
						1,2-Dibromoethane (EDB)	5000 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00183	07/30/24	Restek, Lot A0197578			(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,3-Diethylbenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-ethoxy-2-methyl butane	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Methylnaphthalene	5000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							o-diethylbenzene	5000 ug/mL
							p-Diethylbenzene	5000 ug/mL
							Pentane	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_CCV_VOC#3_00186	07/30/24	06/30/24	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00021	0.5 mL	Acrolein	12527.2 ug/mL
					MSV_V_Ketones_00170	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_CCV_ACR_00021	08/10/24	06/11/24	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00041	9.393 mL	Acrolein	125272 ug/mL
...MSV_VACR_STK_00041	08/10/24	06/11/24	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00034	1.4356 g	Acrolein	133367 ug/mL
....MSV_ACROLEIN_00034	01/31/25	Chem Service, Lot 15004000			(Purchased Reagent)		Acrolein	0.929 g/g
..MSV_V_Ketones_00170	01/31/26	Restek, Lot A0193494			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_CCV_2CEVE_00184	08/13/2							

REAGENT TRACEABILITY SUMMARY

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_CCV_CYC_00009	01/10/25	07/10/24	50/50 MeOH/Water, Lot EH471	50 mL	MSV_VCYC_STK_00012	5.81 mL	Cyclohexanone	6250.4 ug/mL
.MSV_VCYC_STK_00012	01/10/25	07/10/24	50/50 MeOH/Water, Lot EH471	10 mL	MSV_CYC_00009	0.5379 g	Cyclohexanone	53790 ug/mL
..MSV_CYC_00009	06/30/27		Chem Service, Lot 14568900		(Purchased Reagent)		Cyclohexanone	1 g/g
MSV_CCV_EE_00007	11/07/24	05/07/24	Methanol, Lot EH471	50 mL	MSV_EE_MISCSK_00014	0.917 mL	Ethyl ether	999.897 ug/mL
.MSV_EE_MISCSK_00014	11/07/24	05/07/24	Methanol, Lot EH471	10 mL	MSV_EE_Neat_00011	0.5452 g	Ethyl ether	54520 ug/mL
..MSV_EE_Neat_00011	06/30/27		Chem Service, Lot 14084700		(Purchased Reagent)		Ethyl ether	1 g/g
MSV_CCV_ETOH_00006	09/20/24	03/20/24	Methanol, Lot EH471	200 mL	MSV_VETOH_STK_00015	9.084 mL	Ethanol	12500.5 ug/mL
.MSV_VETOH_STK_00015	09/20/24	03/20/24	Methanol, Lot EH471	10 mL	MSV_EtOH_00048	2.7522 g	Ethanol	275220 ug/mL
..MSV_EtOH_00048	04/30/28		Chem Service, Lot 15032500		(Purchased Reagent)		Ethanol	1 g/g
MSV_CCV_GASES_00819	07/22/24		Restek, Lot A0212054		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_CCV_GASES_00869	10/11/24		Restek, Lot A0212054		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_CCV_LKB_00010	12/13/24	06/13/24	Methanol, Lot EH471	50 mL	MSV_V34D1B_SK_00013	0.726 mL	3,4-Dichloro-1-butene	999.992 ug/mL
.MSV_V34D1B_SK_00013	12/13/24	06/13/24	Methanol, Lot EH471	10 mL	MSV_Vc14d_STK_00011	1.233 mL	cis-1,4-Dichloro-2-butene	999.864 ug/mL
..MSV_3,4DC1Be_00003	08/22/27		TCI, Lot W3RMJ		MSV_3,4DC1Be_00003	0.6887 g	3,4-Dichloro-1-butene	68870 ug/mL
.MSV_Vc14d_STK_00011	12/13/24	06/13/24	Methanol, Lot EH471	10 mL	(Purchased Reagent)		3,4-Dichloro-1-butene	1 g/g
..MSV_c14dcb_Nt_00004	08/16/27		Aldrich, Lot SHBH4584V		MSV_c14dcb_Nt_00004	0.4268 g	cis-1,4-Dichloro-2-butene	40546 ug/mL
					(Purchased Reagent)		cis-1,4-Dichloro-2-butene	0.95 g/g
MSV_CCV_OH_Sp_00012	08/14/24	07/15/24	Methanol, Lot EH822	10 mL	MSV_V_Acr_Std_00007	2 mL	2-Ethylhexyl acrylate	1000.05 ug/mL
							n-Butyl acrylate	1000.07 ug/mL
							Ethyl acrylate	999.796 ug/mL
							Methyl acrylate	1000.05 ug/mL
.MSV_V_Acr_Std_00007	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_MStk_2E6A_00004	0.885 mL	2-Ethylhexyl acrylate	5000.25 ug/mL
					MSV_MStk_BAc_00005	0.908 mL	n-Butyl acrylate	5000.36 ug/mL
					MSV_MStk_EtAc_00004	0.998 mL	Ethyl acrylate	4998.98 ug/mL
					MSV_MStk_MAc_00004	0.859 mL	Methyl acrylate	5000.24 ug/mL
..MSV_MStk_2E6A_00004	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_2Eth6Acry_00001	0.565 g	2-Ethylhexyl acrylate	56500 ug/mL
...MSV_2Eth6Acry_00001	02/28/28		Sigma Aldrich, Lot MKCN1302		(Purchased Reagent)		2-Ethylhexyl acrylate	1 g/g
..MSV_MStk_BAc_00005	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_nButylAc_00005	0.5507 g	n-Butyl acrylate	55070 ug/mL
...MSV_nButylAc_00005	01/31/26		Chem Service, Lot 14061100		(Purchased Reagent)		n-Butyl acrylate	1 g/g
..MSV_MStk_EtAc_00004	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_EthylAc_00003	0.5009 g	Ethyl acrylate	50090 ug/mL
...MSV_EthylAc_00003	03/31/26		Chem Service, Lot 14239800		(Purchased Reagent)		Ethyl acrylate	1 g/g

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSV_MStk_MAcR_00004	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_MethylAcr_00003	0.5821 g	Methyl acrylate	58210 ug/mL
...MSV_MethylAcr_00003	01/31/26		Chem Service, Lot 14104500		(Purchased Reagent)		Methyl acrylate	1 g/g
MSV_CCV_Penta_00051	07/28/24	06/28/24	Methanol, Lot EH822	1 mL	MSV_V_PentaCL_00049	200 uL	Pentachloroethane	1000 ug/mL
.MSV_V_PentaCL_00049	07/28/24		Restek, Lot A0184174		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_CCV_V5ACE_00038	08/11/24	07/11/24	Methanol, Lot EH822	10 mL	MSV_AcetatesV_00060	1 mL	Acetonitrile	5000 ug/mL
							Ethyl acetate	1000 ug/mL
							Isopropyl acetate	1000 ug/mL
							n-Butyl acetate	1000 ug/mL
							n-Propyl acetate	1000 ug/mL
							Vinyl acetate	1000 ug/mL
.MSV_AcetatesV_00060	11/30/24		Restek, Lot A0197847		(Purchased Reagent)		Acetonitrile	50000 ug/mL
							Ethyl acetate	10000 ug/mL
							Isopropyl acetate	10000 ug/mL
							n-Butyl acetate	10000 ug/mL
							n-Propyl acetate	10000 ug/mL
							Vinyl acetate	10000 ug/mL
MSV_CCV_VOC#1_00192	08/13/24	07/14/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00187	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00182	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,3-Diethylbenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-ethoxy-2-methyl butane	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl alcohol	5000 ug/mL
							Isopropyl ether	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							o-diethylbenzene	1000 ug/mL
							p-Diethylbenzene	1000 ug/mL
							Pentane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
.MSV_MegaMIX#1_00187	08/13/24		Restek, Lot A0197556		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
.MSV_MegaMix#2_00182	08/13/24		Restek, Lot A0197578		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,3-Diethylbenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-ethoxy-2-methyl butane	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Methylnaphthalene	5000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							o-diethylbenzene	5000 ug/mL
							p-Diethylbenzene	5000 ug/mL
							Pentane	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_ccv_voc#1_00204	11/06/24	10/07/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00204	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00203	1 mL	Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_MegaMIX#1_00204	11/06/24	Restek, Lot A0211483			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							Benzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Methylene Chloride	5000 ug/mL
							Styrene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
.MSV_MegaMix#2_00203	11/06/24		Restek, Lot A0212010		(Purchased Reagent)		trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
MSV_CCV_VOC#3_00188	08/10/24	07/14/24	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00021	0.5 mL	Carbon disulfide	5000 ug/mL
					MSV_V_Ketones_00172	1 mL	Methyl tert-butyl ether	5000 ug/mL
							Acrolein	12527.2 ug/mL
							2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
.MSV_CCV_ACR_00021	08/10/24	06/11/24	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00041	9.393 mL	4-Methyl-2-pentanone (MIBK)	2500 ug/mL
..MSV_VACR_STK_00041	08/10/24	06/11/24	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00034	1.4356 g	Acetone	2500 ug/mL
...MSV_ACROLEIN_00034	01/31/25		Chem Service, Lot 15004000		(Purchased Reagent)		Acrolein	125272 ug/mL
.MSV_V_Ketones_00172	01/31/26		Restek, Lot A0193494		(Purchased Reagent)		Acrolein	133367 ug/mL
							2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_CCV_VOC#3_00201	11/06/24	10/07/24	Methanol, Lot EH471	5 mL	MSV_V_Ketones_00199	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
							Acetone	2500 ug/mL
.MSV_V_Ketones_00199	04/30/27		Restek, Lot A0210935		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_HP23_ISO_00008	11/22/24	07/15/24	Methanol, Lot EH822	10 mL	MSV_Cus826_IS_00776	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_Cus826_IS_00776	04/30/26		Restek, Lot A0197488		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_HP23_ISSS_00014	11/22/24	05/22/24	Methanol, Lot EH822	10 mL	MSV_8260_SS_01198	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
					MSV_Cus826_IS_00776	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_8260_SS_01198	01/31/29		Restek, Lot A0206374		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.MSV_Cus826_IS_00776	04/30/26		Restek, Lot A0197488		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_LCS_Gases_00207	07/21/24	07/14/24	Methanol, Lot EH471	25 mL	MSV_QC_2K_GAS_00225	0.5 mL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00225	07/21/24		Restek, Lot A0184924		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LCS_Gases_00219	10/14/24	10/07/24	Methanol, Lot EH471	25 mL	MSV_QC_2K_GAS_00236	0.5 mL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00236	10/14/24		Restek, Lot A0184924		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LCS_VOC#1_00176	08/13/24	07/14/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00217	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00213	1 mL	Carbon disulfide	40 ug/mL
					MSV_Q_Ketones_00192	1 mL	Methyl tert-butyl ether	40 ug/mL
							2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00217	06/30/26	Restek, Lot A0211284			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
1,1,1-Trichloroethane	1000 ug/mL							
1,1,2,2-Tetrachloroethane	1000 ug/mL							
1,1,2-Trichloroethane	1000 ug/mL							
1,1-Dichloroethane	1000 ug/mL							
1,1-Dichloroethene	1000 ug/mL							
1,2-Dibromoethane (EDB)	1000 ug/mL							
1,2-Dichloroethane	1000 ug/mL							
1,2-Dichloropropane	1000 ug/mL							
Benzene	1000 ug/mL							
Bromochloromethane	1000 ug/mL							
Bromodichloromethane	1000 ug/mL							
Bromoform	1000 ug/mL							
Carbon tetrachloride	1000 ug/mL							
Chlorobenzene	1000 ug/mL							
Chloroform	1000 ug/mL							
cis-1,2-Dichloroethene	1000 ug/mL							
cis-1,3-Dichloropropene	1000 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
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Job No.: 410-191048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00213	04/30/26		Restek, Lot A0197573		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00192	04/30/25		Restek, Lot A0194631		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00188	11/06/24	10/07/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00230	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00227	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00224	1 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00230	05/31/27		Restek, Lot A0211284		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00227	05/31/27		Restek, Lot A0212017		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00224	04/30/27		Restek, Lot A0209876		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_V_BFB_00017							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							divinyl benzene	
							Tentatively Identified Compound	
							Total BTEX	
							Total Diethylbenzene	
							Xylenes, Total	
					MSV_VBFB_STK_00012	0.09 mL	BFB	50.112 ug/mL
.MSV_VBFB_STK_00012	12/02/24	06/02/24	Methanol, Lot EH471	10 mL	MSV_4BFB_NEAT_00011	1.392 g	BFB	139200 ug/mL
..MSV_4BFB_NEAT_00011	05/31/25		Chem Service, Lot 15267000		(Purchased Reagent)		BFB	1 g/g

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_V_SMFreon_00044	07/22/24	Restek, Lot A0184508			(Purchased Reagent)		2-Chloro-1,1,1-Trifluoroethane	2000 ug/mL
							Chlorodifluoromethane	2000 ug/mL
							Chlorotrifluoroethene	2000 ug/mL

Reagent

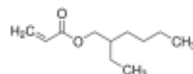
MSV_2Eth6Acry_00001

Certificate of Analysis

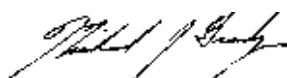
Product Name:

2-Ethylhexyl acrylate - 98%, contains ≥ 0.001 – $\leq 0.11\%$ monomethyl ether hydroquinone as stabilizer

Product Number: 290815
Batch Number: MKCN1302
Brand: ALDRICH
CAS Number: 103-11-7
MDL Number: MFCD00009495
Formula: C₁₁H₂₀O₂
Formula Weight: 184.28 g/mol
Quality Release Date: 01 SEP 2020



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	$\geq 97.5\%$	99.6 %
Stabilizer	0.001 - 0.110 %	0.002 %
Monomethyl Ether Hydroquinone (MEHQ)		



Michael Grady, Manager
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Reagent

MSV_3,4DC1Be_00003



Certificate of Analysis

08/23/2022(JST)

TOKYO CHEMICAL INDUSTRY CO.,LTD.
4-10-1 Nihonbashi-Honcho, Chuo-ku, Tokyo 103-0023 Japan

Chemical Name: 3,4-Dichloro-1-butene		
Product Number: D1072 CAS RN: 760-23-6	Lot: W3RMJ	

Tests	Results	Specifications
Appearance	Colorless clear liquid	Colorless to Almost colorless clear liquid
Purity(GC)	99.6 %	min. 98.0 %

TCI Lot numbers are 4-5 characters in length. Characters listed after the first 4-5 characters are control numbers for internal purpose only.
The contents of the specifications are subject to change without advance notice. The specification values displayed here are the most up to date values. There may be cases where the product labels display a different specification, however, the product quality still meets the latest specification.

Customer Service:

TCI AMERICA
Tel: +1-800-423-8616 / +1-503-283-1681
Fax: +1-888-520-1075 / +1-503-283-1987
E-mail: Sales-US@TCIchemicals.com

Takuya Nishioka
Quality Assurance Department Manager

Reagent

MSV_8260_SS_01198



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30240 **Lot No.:** A0203162

Description : 8260A Surrogate Mix
8260A Surrogate Mix 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dibromofluoromethane	1868-53-7	022013	99%	2,510.0 µg/mL	+/- 141.0009
2	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	2,518.2 µg/mL	+/- 141.4616
3	Toluene-d8	2037-26-5	PR-33397	99%	2,523.4 µg/mL	+/- 141.7537
4	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000194533	99%	2,508.7 µg/mL	+/- 140.9301

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

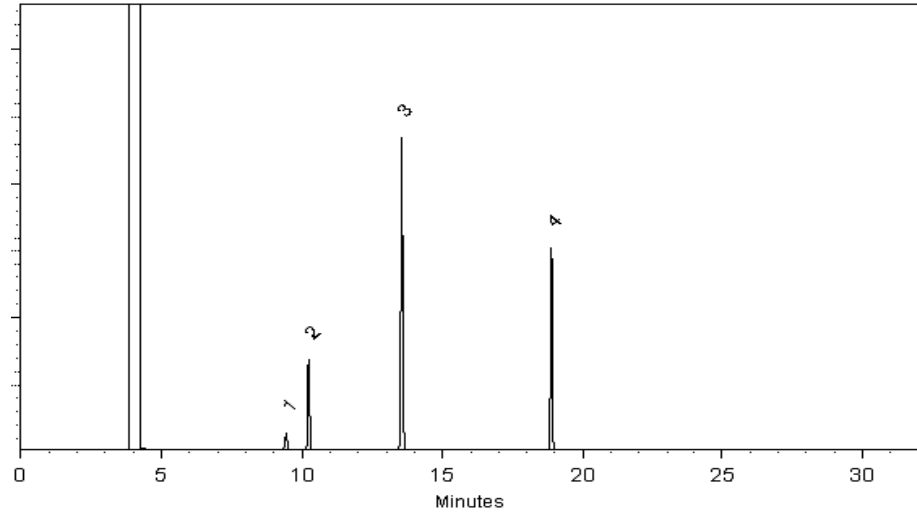
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

Date Mixed: 13-Oct-2023

Balance Serial # 1128342314

Dillan Murphy - Operations Technician I

Date Passed: 19-Oct-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_AcetatesV_00060



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577489 **Lot No.:** A0197847

Description : Custom Acetates Standard

Custom Acetates Standard 10,000-50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2024 **Storage:** -20°C or colder

Ship: On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetonitrile	75-05-8	62904	99%	50,466.0 µg/mL	+/- 825.2159
2	Vinyl acetate	108-05-4	RD220630	99%	10,082.0 µg/mL	+/- 164.9082
3	Ethyl acetate	141-78-6	SHBP9289	99%	10,088.0 µg/mL	+/- 165.0064
4	Isopropyl acetate	108-21-4	BCCG7069	99%	10,090.0 µg/mL	+/- 165.0391
5	Propyl acetate	109-60-4	Q4GIJ	99%	10,100.0 µg/mL	+/- 165.2027
6	Butyl acetate	123-86-4	SHBP6314	99%	10,094.0 µg/mL	+/- 165.1045

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution

immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

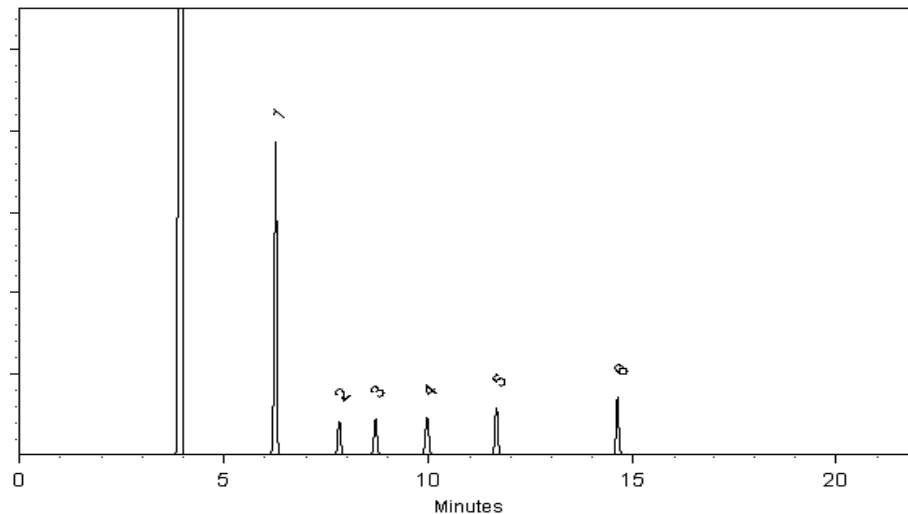
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 09-May-2023

Balance Serial # B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_c14dcb_Nt_00004

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Certificate of Analysis

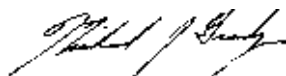
Product Name:

cis-1,4-Dichloro-2-butene - 95%

Product Number: 195707
Batch Number: SHBH4584V
Brand: ALDRICH
CAS Number: 1476-11-5
MDL Number: MFCD00062950
Formula: C₄H₆Cl₂
Formula Weight: 125.00 g/mol
Storage Temperature: Store at 2 - 8 °C
Quality Release Date: 30 AUG 2016



Test	Specification	Result
Appearance (Color)	Colorless to Light Yellow	Very Faint Yellow
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	≥ 94.5 %	98.0 %



Michael Grady, Manager
Quality Control
Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Reagent

MSV_CCV_GASES_00799



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577488 **Lot No.:** A0212054

Description : Custom Gases Standard
Custom Gases Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,016.7 µg/mL	+/- 114.0219
2	Chloromethane (methyl chloride)	74-87-3	SHBP8835	99%	2,015.3 µg/mL	+/- 115.0747
3	Vinyl chloride	75-01-4	00015559	99%	2,015.3 µg/mL	+/- 115.4962
4	1,3-Butadiene	106-99-0	00019375	99%	2,020.7 µg/mL	+/- 114.1301
5	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,025.3 µg/mL	+/- 114.3368
6	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,023.4 µg/mL	+/- 114.7120
7	Dichlorofluoromethane (CFC-21)	75-43-4	14485600	90%	2,019.6 µg/mL	+/- 113.4524
8	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,020.0 µg/mL	+/- 113.4748
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	354-23-4	877500	99%	2,021.2 µg/mL	+/- 114.0989

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

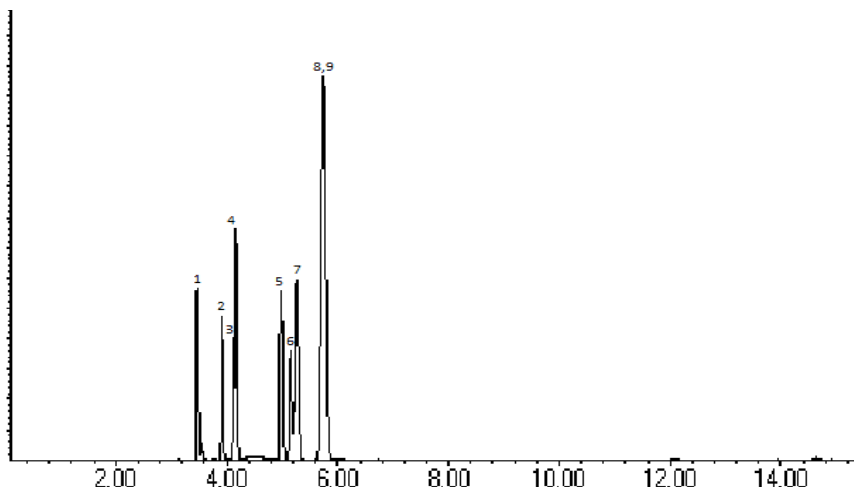
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 28-May-2024

Balance Serial # B251644995

Dillan Murphy - Operations Technician I

Date Passed: 03-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_CCV_GASES_00819



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577488 **Lot No.:** A0212054

Description : Custom Gases Standard
Custom Gases Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,016.7 µg/mL	+/- 114.0219
2	Chloromethane (methyl chloride)	74-87-3	SHBP8835	99%	2,015.3 µg/mL	+/- 115.0747
3	Vinyl chloride	75-01-4	00015559	99%	2,015.3 µg/mL	+/- 115.4962
4	1,3-Butadiene	106-99-0	00019375	99%	2,020.7 µg/mL	+/- 114.1301
5	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,025.3 µg/mL	+/- 114.3368
6	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,023.4 µg/mL	+/- 114.7120
7	Dichlorofluoromethane (CFC-21)	75-43-4	14485600	90%	2,019.6 µg/mL	+/- 113.4524
8	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,020.0 µg/mL	+/- 113.4748
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	354-23-4	877500	99%	2,021.2 µg/mL	+/- 114.0989

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

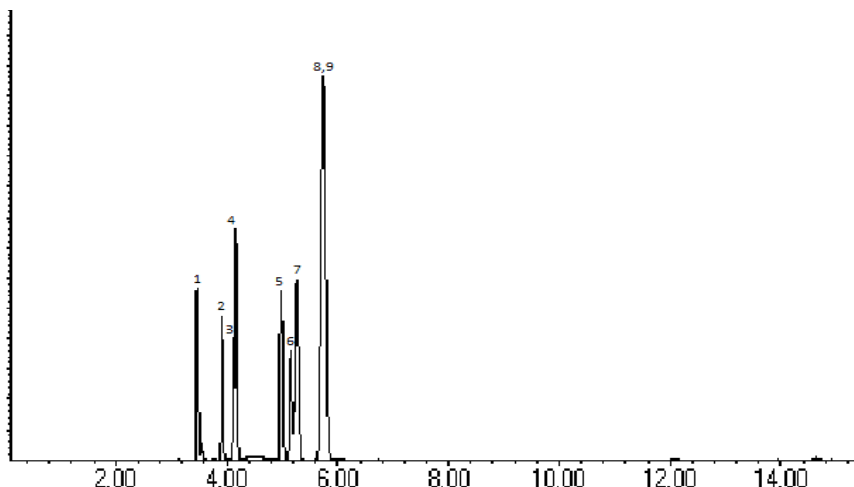
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 28-May-2024

Balance Serial # B251644995

Dillan Murphy - Operations Technician I

Date Passed: 03-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_Cus826_IS_00776



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 558267 **Lot No.:** A0197488

Description : Custom 8260A IS Mix
Custom 8260A IS Mix 2,500-12,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methyl-2-propanol-d10	53001-22-2	PR-29961	99%	12,587.5 µg/mL	+/- 156.5745
2	Fluorobenzene	462-06-6	BCBZ5549	99%	2,510.5 µg/mL	+/- 31.2436
3	Chlorobenzene-d5	3114-55-4	PR-29571	99%	2,507.0 µg/mL	+/- 31.2001
4	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,515.0 µg/mL	+/- 31.2996

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

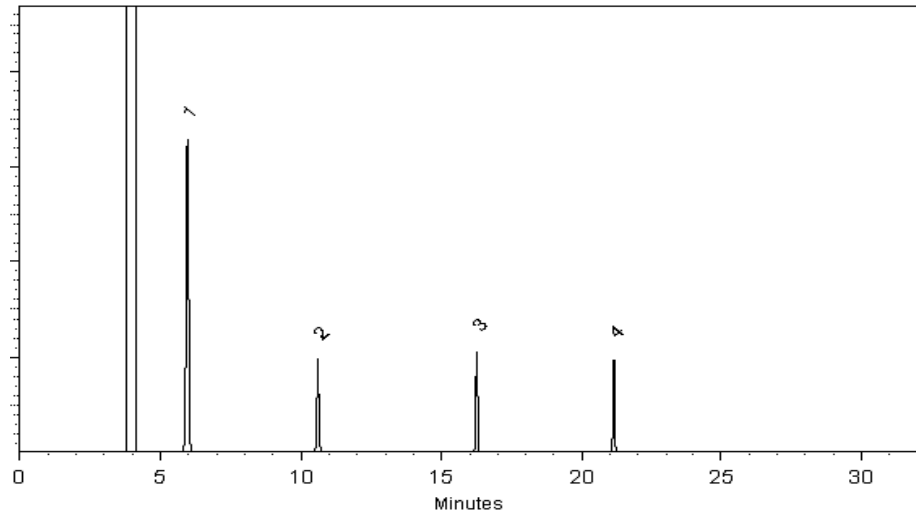
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Daniel Wasson - Operations Tech I

Date Mixed: 26-Apr-2023

Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_EthylAcry_00003

CERTIFICATE OF ANALYSIS

Ethyl acrylate

CATALOG NUMBER N-11884-1G
LOT NUMBER 14239800
DATE CERTIFIED 03/24/23
EXPIRATION DATE 03/31/26
CAS NUMBER 140-88-5
MOLECULAR FORMULA C₅H₈O₂
MOLECULAR WEIGHT 100.12
STORAGE Store at room temperature (20 - 25 °C).
HANDLING See Safety Data Sheet
INTENDED USE For laboratory use only.

Analytical Test	Value
% PURITY (GC/FID)	98.5
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:



Kristin R Jones

Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



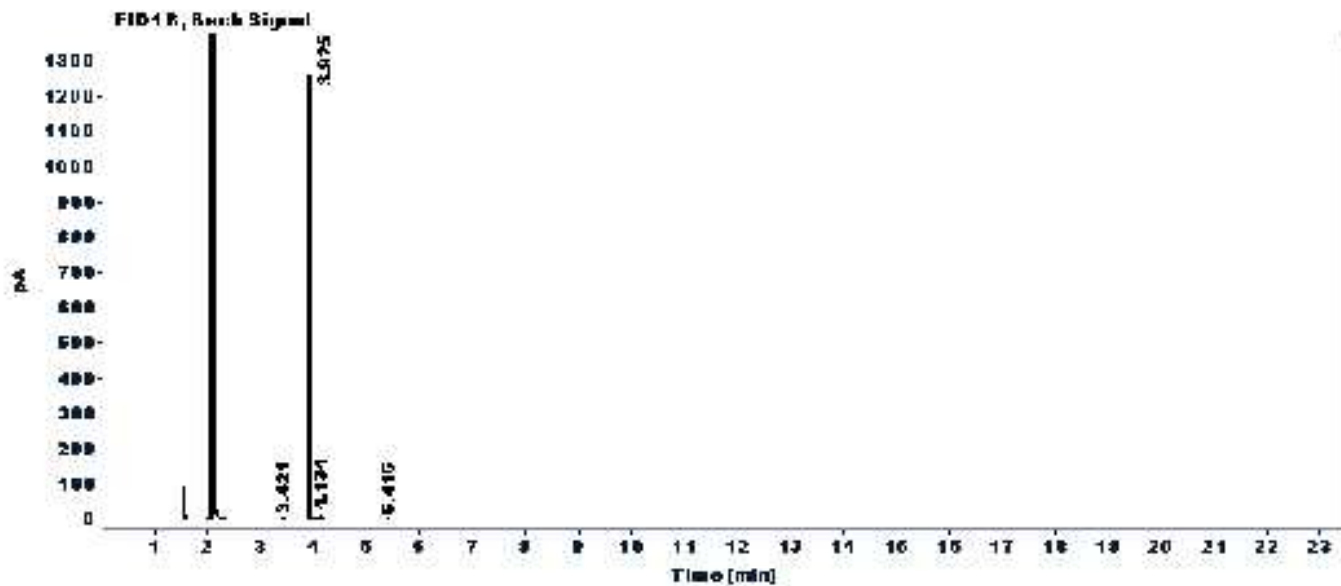
COA Form
Revision 3 (3/2015)

Print Date: 03/27/23

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2023 DATA\0323\ethyl acrylate.D
Sample name: Ethyl acrylate
Acq. method: FRANNY-BACK.M
Instrument: GC3 **Location:** 203
Injection date: 3/24/2023 8:59:20 AM **Injection Vol:** 1.000
Column name: RTX-5MS (30m x 0.25mm x 0.5µm) **# Of Injections:** 1



Signal: FID1 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
3.421	BB	0.0211	4.0827	3.1559	0.2618
3.925	BB	0.0194	1536.8994	1248.9259	98.5417
4.134	BB	0.0187	16.9484	14.3806	1.0867
5.416	BB	0.0197	1.7128	1.3592	0.1098
Sum			1559.6433		

Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



Reagent

MSV_MegaMIX#1_00187



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577486 **Lot No.:** A0197556

Description : Custom VOC MegaMix® #1 Standard

Custom VOC MegaMix® #1 Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,1-dichloroethene	75-35-4	SHBL4758	99%	5,031.3 µg/mL	+/- 283.3780
2	Methylene chloride (dichloromethane)	75-09-2	SHBP1417	99%	5,034.6 µg/mL	+/- 283.5646
3	trans-1,2-Dichloroethene	156-60-5	MKBH9850V	99%	5,035.6 µg/mL	+/- 283.6244
4	1,1-Dichloroethane	75-34-3	760200	99%	5,025.8 µg/mL	+/- 283.0682
5	2,2-Dichloropropane	594-20-7	RD220812	99%	5,043.3 µg/mL	+/- 284.0782
6	cis-1,2-Dichloroethene	156-59-2	MKCP7830	99%	5,049.7 µg/mL	+/- 284.4387
7	chloroform	67-66-3	SHBN8469	99%	5,026.5 µg/mL	+/- 283.1105
8	Bromochloromethane	74-97-5	230206JLM	99%	5,043.8 µg/mL	+/- 284.1063
9	1,1,1-trichloroethane	71-55-6	RD230130RSR	99%	5,017.8 µg/mL	+/- 282.6176
10	1,1-Dichloropropene	563-58-6	230131JLM	99%	5,043.1 µg/mL	+/- 284.0669
11	carbon tetrachloride	56-23-5	SHBP4875	99%	5,031.8 µg/mL	+/- 283.4062
12	1,2-Dichloroethane	107-06-2	SHBQ0693	99%	5,041.9 µg/mL	+/- 283.9799
13	Benzene	71-43-2	SHBM3620	99%	5,044.9 µg/mL	+/- 284.1683
14	Trichloroethene	79-01-6	SHBN3720	99%	5,031.3 µg/mL	+/- 283.3780
15	1,2-Dichloropropane	78-87-5	BCBR0882V	99%	5,036.8 µg/mL	+/- 283.6878
16	bromodichloromethane	75-27-4	MKCF8470	99%	5,023.9 µg/mL	+/- 282.9661

17	Dibromomethane	74-95-3	10233302	99%	5,047.7	µg/mL	+/-	284.3260
18	cis-1,3-Dichloropropene	10061-01-5	RD221227RSRB	99%	5,027.8	µg/mL	+/-	283.1844
19	Toluene	108-88-3	ED097-US	99%	5,047.6	µg/mL	+/-	284.3204
20	trans-1,3-Dichloropropene	10061-02-6	RD220228A	98%	5,026.1	µg/mL	+/-	283.0852
21	1,1,2-Trichloroethane	79-00-5	FGB01	99%	5,037.6	µg/mL	+/-	283.7335
22	1,3-Dichloropropane	142-28-9	BCCH5357	99%	5,042.5	µg/mL	+/-	284.0331
23	Tetrachloroethene	127-18-4	SHBJ7422	99%	5,031.8	µg/mL	+/-	283.4097
24	dibromochloromethane	124-48-1	MKCM8659	99%	5,024.5	µg/mL	+/-	282.9978
25	1,2-Dibromoethane (EDB)	106-93-4	BCCH7113	99%	5,044.2	µg/mL	+/-	284.1289
26	Chlorobenzene	108-90-7	SHBN6640	99%	5,022.1	µg/mL	+/-	282.8605
27	1,1,1,2-Tetrachloroethane	630-20-6	GC01	99%	5,043.6	µg/mL	+/-	284.0951
28	Ethylbenzene	100-41-4	094632L21G	99%	5,045.6	µg/mL	+/-	284.2077
29	m-Xylene	108-38-3	Q13G020	99%	5,048.8	µg/mL	+/-	284.3880
30	p-Xylene	106-42-3	10234437	99%	5,045.7	µg/mL	+/-	284.2134
31	o-Xylene	95-47-6	SHBN5105	98%	5,038.2	µg/mL	+/-	283.7898
32	Styrene	100-42-5	MKQCQ3390	99%	5,041.8	µg/mL	+/-	283.9937
33	Isopropylbenzene (cumene)	98-82-8	Z20D022	99%	5,047.5	µg/mL	+/-	284.3148
34	bromoform	75-25-2	MKCR0680	99%	5,030.8	µg/mL	+/-	283.3533
35	1,1,2,2-Tetrachloroethane	79-34-5	OXACF	99%	5,031.6	µg/mL	+/-	283.3956
36	1,2,3-Trichloropropane	96-18-4	332900	99%	5,044.1	µg/mL	+/-	284.1232
37	n-Propylbenzene	103-65-1	G08M	98%	5,049.5	µg/mL	+/-	284.4246
38	Bromobenzene	108-86-1	MKQCQ7174	99%	5,044.6	µg/mL	+/-	284.1514
39	1,3,5-Trimethylbenzene	108-67-8	BCCF4166	99%	5,049.4	µg/mL	+/-	284.4218
40	2-Chlorotoluene	95-49-8	235783M23T	99%	5,044.5	µg/mL	+/-	284.1458
41	4-Chlorotoluene	106-43-4	BCCG9286	99%	5,045.5	µg/mL	+/-	284.2021
42	tert-Butylbenzene	98-06-6	STBJ1937	99%	5,047.9	µg/mL	+/-	284.3373
43	1,2,4-Trimethylbenzene	95-63-6	MKCS3775	99%	5,047.3	µg/mL	+/-	284.3035
44	sec-Butylbenzene	135-98-8	MKCP2266	99%	5,046.3	µg/mL	+/-	284.2472
45	p-Isopropyltoluene (p-Cymene)	99-87-6	MKCR6143	99%	5,045.8	µg/mL	+/-	284.2190
46	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	5,036.8	µg/mL	+/-	283.6878
47	1,4-Dichlorobenzene	106-46-7	MKBS4401V	99%	5,037.8	µg/mL	+/-	283.7476
48	n-Butylbenzene	104-51-8	09804AE	99%	5,049.1	µg/mL	+/-	284.4049
49	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	5,030.9	µg/mL	+/-	283.3604
50	1,2-Dibromo-3-chloropropane	96-12-8	HBMVB	97%	5,047.8	µg/mL	+/-	284.3307
51	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	5,046.6	µg/mL	+/-	284.2641
52	Hexachlorobutadiene	87-68-3	X05J	99%	5,045.1	µg/mL	+/-	284.1796

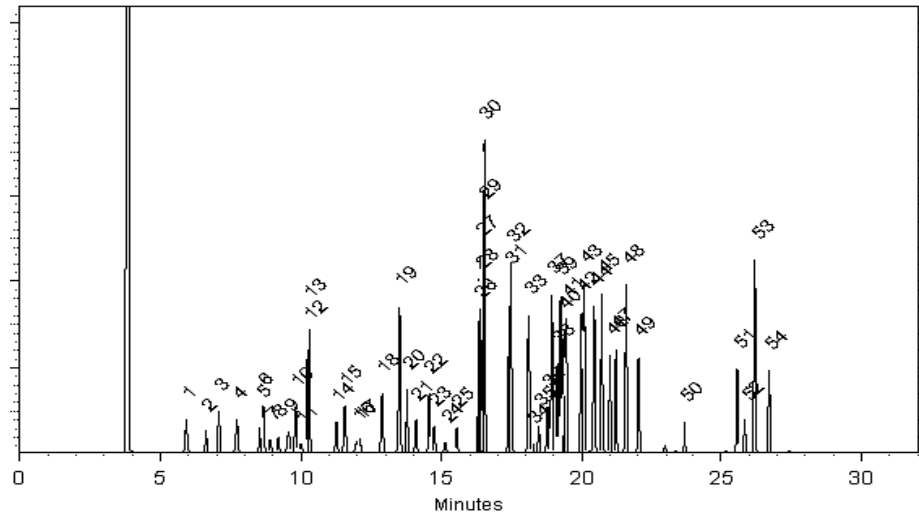
53	Naphthalene	91-20-3	MKCH0219	99%	5,029.9	µg/mL	+/- 283.3234
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,045.3	µg/mL	+/- 284.1908

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)
Carrier Gas:
hydrogen-constant pressure 11.0 psi.
Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)
Inj. Temp:
200°C
Det. Temp:
250°C
Det. Type:
FID
Split Vent:
40 ml/min
Inj. Vol
0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Nick Yaw
Nick Yaw - Operations Tech I

Date Mixed: 28-Apr-2023 **Balance Serial #** B707717271

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 05-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_MegaMIX#1_00189



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577486 **Lot No.:** A0197556

Description : Custom VOC MegaMix® #1 Standard

Custom VOC MegaMix® #1 Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,1-dichloroethene	75-35-4	SHBL4758	99%	5,031.3 µg/mL	+/- 283.3780
2	Methylene chloride (dichloromethane)	75-09-2	SHBP1417	99%	5,034.6 µg/mL	+/- 283.5646
3	trans-1,2-Dichloroethene	156-60-5	MKBH9850V	99%	5,035.6 µg/mL	+/- 283.6244
4	1,1-Dichloroethane	75-34-3	760200	99%	5,025.8 µg/mL	+/- 283.0682
5	2,2-Dichloropropane	594-20-7	RD220812	99%	5,043.3 µg/mL	+/- 284.0782
6	cis-1,2-Dichloroethene	156-59-2	MKCP7830	99%	5,049.7 µg/mL	+/- 284.4387
7	chloroform	67-66-3	SHBN8469	99%	5,026.5 µg/mL	+/- 283.1105
8	Bromochloromethane	74-97-5	230206JLM	99%	5,043.8 µg/mL	+/- 284.1063
9	1,1,1-trichloroethane	71-55-6	RD230130RSR	99%	5,017.8 µg/mL	+/- 282.6176
10	1,1-Dichloropropene	563-58-6	230131JLM	99%	5,043.1 µg/mL	+/- 284.0669
11	carbon tetrachloride	56-23-5	SHBP4875	99%	5,031.8 µg/mL	+/- 283.4062
12	1,2-Dichloroethane	107-06-2	SHBQ0693	99%	5,041.9 µg/mL	+/- 283.9799
13	Benzene	71-43-2	SHBM3620	99%	5,044.9 µg/mL	+/- 284.1683
14	Trichloroethene	79-01-6	SHBN3720	99%	5,031.3 µg/mL	+/- 283.3780
15	1,2-Dichloropropane	78-87-5	BCBR0882V	99%	5,036.8 µg/mL	+/- 283.6878
16	bromodichloromethane	75-27-4	MKCF8470	99%	5,023.9 µg/mL	+/- 282.9661

17	Dibromomethane	74-95-3	10233302	99%	5,047.7	µg/mL	+/-	284.3260
18	cis-1,3-Dichloropropene	10061-01-5	RD221227RSRB	99%	5,027.8	µg/mL	+/-	283.1844
19	Toluene	108-88-3	ED097-US	99%	5,047.6	µg/mL	+/-	284.3204
20	trans-1,3-Dichloropropene	10061-02-6	RD220228A	98%	5,026.1	µg/mL	+/-	283.0852
21	1,1,2-Trichloroethane	79-00-5	FGB01	99%	5,037.6	µg/mL	+/-	283.7335
22	1,3-Dichloropropane	142-28-9	BCCH5357	99%	5,042.5	µg/mL	+/-	284.0331
23	Tetrachloroethene	127-18-4	SHBJ7422	99%	5,031.8	µg/mL	+/-	283.4097
24	dibromochloromethane	124-48-1	MKCM8659	99%	5,024.5	µg/mL	+/-	282.9978
25	1,2-Dibromoethane (EDB)	106-93-4	BCCH7113	99%	5,044.2	µg/mL	+/-	284.1289
26	Chlorobenzene	108-90-7	SHBN6640	99%	5,022.1	µg/mL	+/-	282.8605
27	1,1,1,2-Tetrachloroethane	630-20-6	GC01	99%	5,043.6	µg/mL	+/-	284.0951
28	Ethylbenzene	100-41-4	094632L21G	99%	5,045.6	µg/mL	+/-	284.2077
29	m-Xylene	108-38-3	Q13G020	99%	5,048.8	µg/mL	+/-	284.3880
30	p-Xylene	106-42-3	10234437	99%	5,045.7	µg/mL	+/-	284.2134
31	o-Xylene	95-47-6	SHBN5105	98%	5,038.2	µg/mL	+/-	283.7898
32	Styrene	100-42-5	MKQCQ3390	99%	5,041.8	µg/mL	+/-	283.9937
33	Isopropylbenzene (cumene)	98-82-8	Z20D022	99%	5,047.5	µg/mL	+/-	284.3148
34	bromoform	75-25-2	MKCR0680	99%	5,030.8	µg/mL	+/-	283.3533
35	1,1,2,2-Tetrachloroethane	79-34-5	OXACF	99%	5,031.6	µg/mL	+/-	283.3956
36	1,2,3-Trichloropropane	96-18-4	332900	99%	5,044.1	µg/mL	+/-	284.1232
37	n-Propylbenzene	103-65-1	G08M	98%	5,049.5	µg/mL	+/-	284.4246
38	Bromobenzene	108-86-1	MKQCQ7174	99%	5,044.6	µg/mL	+/-	284.1514
39	1,3,5-Trimethylbenzene	108-67-8	BCCF4166	99%	5,049.4	µg/mL	+/-	284.4218
40	2-Chlorotoluene	95-49-8	235783M23T	99%	5,044.5	µg/mL	+/-	284.1458
41	4-Chlorotoluene	106-43-4	BCCG9286	99%	5,045.5	µg/mL	+/-	284.2021
42	tert-Butylbenzene	98-06-6	STBJ1937	99%	5,047.9	µg/mL	+/-	284.3373
43	1,2,4-Trimethylbenzene	95-63-6	MKCS3775	99%	5,047.3	µg/mL	+/-	284.3035
44	sec-Butylbenzene	135-98-8	MKCP2266	99%	5,046.3	µg/mL	+/-	284.2472
45	p-Isopropyltoluene (p-Cymene)	99-87-6	MKCR6143	99%	5,045.8	µg/mL	+/-	284.2190
46	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	5,036.8	µg/mL	+/-	283.6878
47	1,4-Dichlorobenzene	106-46-7	MKBS4401V	99%	5,037.8	µg/mL	+/-	283.7476
48	n-Butylbenzene	104-51-8	09804AE	99%	5,049.1	µg/mL	+/-	284.4049
49	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	5,030.9	µg/mL	+/-	283.3604
50	1,2-Dibromo-3-chloropropane	96-12-8	HBMVB	97%	5,047.8	µg/mL	+/-	284.3307
51	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	5,046.6	µg/mL	+/-	284.2641
52	Hexachlorobutadiene	87-68-3	X05J	99%	5,045.1	µg/mL	+/-	284.1796

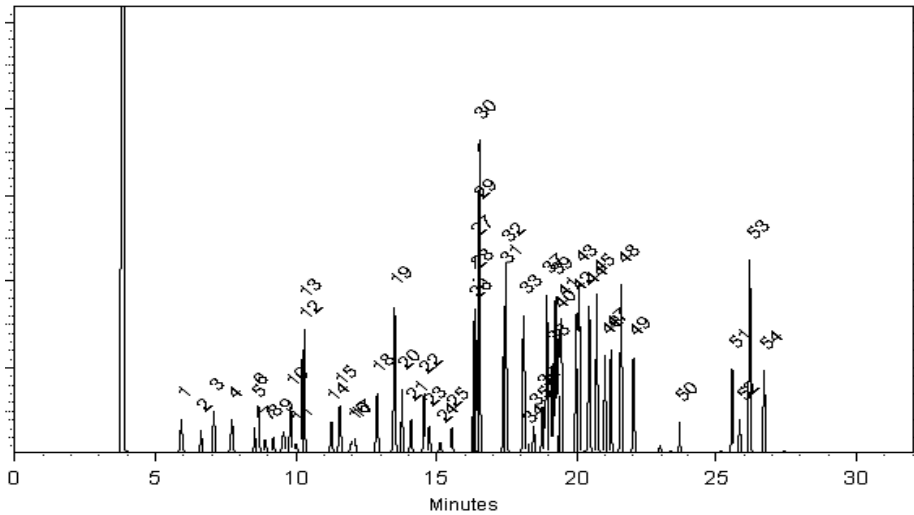
53	Naphthalene	91-20-3	MKCH0219	99%	5,029.9	µg/mL	+/- 283.3234
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,045.3	µg/mL	+/- 284.1908

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)
Carrier Gas:
hydrogen-constant pressure 11.0 psi.
Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)
Inj. Temp:
200°C
Det. Temp:
250°C
Det. Type:
FID
Split Vent:
40 ml/min
Inj. Vol
0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Nick Yaw
Nick Yaw - Operations Tech I

Date Mixed: 28-Apr-2023 **Balance Serial #** B707717271

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 05-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_MegaMix#2_00182



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577487 **Lot No.:** A0197578

Description : Custom VOC MegaMix® #2 Standard

Custom VOC MegaMix® #2 Standard 5000-62500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Pentane (C5)	109-66-0	SHBQ0917	99%	5,046.5 µg/mL	+/- 85.0489
2	2-Propanol (isopropanol)	67-63-0	SHBP6610	99%	25,172.0 µg/mL	+/- 411.6105
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	00018685	99%	5,025.7 µg/mL	+/- 84.6978
4	tert-Butanol (TBA)	75-65-0	101619K21F-1	99%	25,170.0 µg/mL	+/- 411.5778
5	Methyl acetate	79-20-9	SHBP3100	99%	5,020.2 µg/mL	+/- 84.6051
6	Iodomethane (methyl iodide)	74-88-4	MKCN8012	99%	5,022.3 µg/mL	+/- 84.6416
7	Allyl chloride (3-chloropropene)	107-05-1	RD221118RSR	99%	5,038.8 µg/mL	+/- 84.9197
8	Carbon disulfide	75-15-0	N28F701	99%	5,028.2 µg/mL	+/- 84.7399
9	Acrylonitrile	107-13-1	102466R02E	99%	12,532.0 µg/mL	+/- 204.9222
10	Methyl-tert-butyl ether (MTBE)	1634-04-4	SHBP0179	99%	5,044.2 µg/mL	+/- 85.0096
11	n-Hexane (C6)	110-54-3	STBG6381	99%	5,016.0 µg/mL	+/- 84.5349
12	Diisopropyl ether (DIPE)	108-20-3	STBK3450	99%	5,043.0 µg/mL	+/- 84.9899
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	S230420RSR	99%	5,037.3 µg/mL	+/- 84.8944
14	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCP5997	99%	5,034.8 µg/mL	+/- 84.8523
15	Propionitrile	107-12-0	BCCH7430	99%	25,000.0 µg/mL	+/- 408.7979
16	Methacrylonitrile	126-98-7	1012014	99%	12,520.0 µg/mL	+/- 204.7260

17	Isobutanol (2-Methyl-1-propanol)	78-83-1	SHBP7066	99%	62,545.0	µg/mL	+/- 1,022.7307
18	Tetrahydrofuran	109-99-9	SHBQ0910	99%	25,024.0	µg/mL	+/- 409.1904
19	Cyclohexane	110-82-7	MKCQ2001	99%	5,039.5	µg/mL	+/- 84.9309
20	1-Butanol	71-36-3	101601K21K	99%	62,664.0	µg/mL	+/- 1,024.6765
21	tert-Amyl methyl ether (TAME)	994-05-8	HMBJ0825	99%	5,021.8	µg/mL	+/- 84.6332
22	n-Heptane (C7)	142-82-5	044743N07T	99%	5,041.5	µg/mL	+/- 84.9646
23	tert-Amyl ethyl ether (TAEE)	919-94-8	IKVYB	97%	5,049.3	µg/mL	+/- 85.0967
24	Methylcyclohexane	108-87-2	SHBN1699	99%	5,028.0	µg/mL	+/- 84.7371
25	Methyl methacrylate	80-62-6	MKCQ2756	99%	5,012.3	µg/mL	+/- 84.4731
26	1,4-Dioxane	123-91-1	SHBN3770	99%	62,583.0	µg/mL	+/- 1,023.3520
27	2-Nitropropane	79-46-9	BCCB9352	97%	25,024.1	µg/mL	+/- 409.1914
28	Ethyl methacrylate	97-63-2	MKCN6206	97%	5,040.1	µg/mL	+/- 84.9414
29	1-Chlorohexane	544-10-5	BCBS3368V	99%	5,046.3	µg/mL	+/- 85.0461
30	trans-1,4-dichloro-2-butene	110-57-6	RD221227RSRA	94%	12,618.6	µg/mL	+/- 206.3376
31	1,2,3-Trimethylbenzene	526-73-8	8776.10-36	98%	5,002.6	µg/mL	+/- 84.3086
32	1,3-Diethylbenzene	141-93-5	BCBZ6270	99%	5,041.0	µg/mL	+/- 84.9562
33	Benzyl chloride	100-44-7	MKCM5986	99%	5,045.3	µg/mL	+/- 85.0292
34	1,4-Diethylbenzene	105-05-5	1135.72-1	99%	5,032.7	µg/mL	+/- 84.8158
35	1,2-Diethylbenzene	135-01-3	ECH2970181	99%	5,015.3	µg/mL	+/- 84.5236
36	1,3,5-Trichlorobenzene	108-70-3	11319AS	99%	5,003.8	µg/mL	+/- 84.3298
37	2-Methylnaphthalene	91-57-6	STBK0259	96%	5,002.4	µg/mL	+/- 84.3057

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

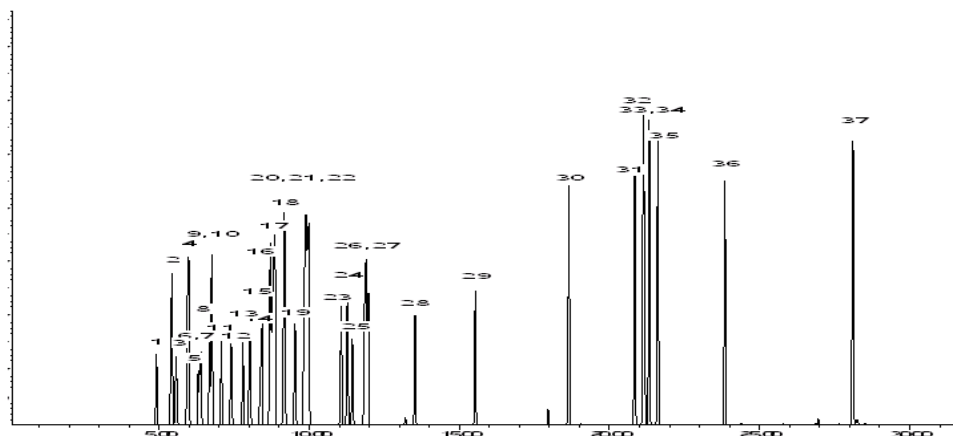
MSD

Split Vent:

25.0 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Apr-2023

Balance Serial # B251644995

Marlina Cowan
Marlina Cowan - Operations Tech II ARM QC

Date Passed: 02-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_MegaMix#2_00183



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577487 **Lot No.:** A0197578

Description : Custom VOC MegaMix® #2 Standard

Custom VOC MegaMix® #2 Standard 5000-62500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Pentane (C5)	109-66-0	SHBQ0917	99%	5,046.5 µg/mL	+/- 85.0489
2	2-Propanol (isopropanol)	67-63-0	SHBP6610	99%	25,172.0 µg/mL	+/- 411.6105
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	00018685	99%	5,025.7 µg/mL	+/- 84.6978
4	tert-Butanol (TBA)	75-65-0	101619K21F-1	99%	25,170.0 µg/mL	+/- 411.5778
5	Methyl acetate	79-20-9	SHBP3100	99%	5,020.2 µg/mL	+/- 84.6051
6	Iodomethane (methyl iodide)	74-88-4	MKCN8012	99%	5,022.3 µg/mL	+/- 84.6416
7	Allyl chloride (3-chloropropene)	107-05-1	RD221118RSR	99%	5,038.8 µg/mL	+/- 84.9197
8	Carbon disulfide	75-15-0	N28F701	99%	5,028.2 µg/mL	+/- 84.7399
9	Acrylonitrile	107-13-1	102466R02E	99%	12,532.0 µg/mL	+/- 204.9222
10	Methyl-tert-butyl ether (MTBE)	1634-04-4	SHBP0179	99%	5,044.2 µg/mL	+/- 85.0096
11	n-Hexane (C6)	110-54-3	STBG6381	99%	5,016.0 µg/mL	+/- 84.5349
12	Diisopropyl ether (DIPE)	108-20-3	STBK3450	99%	5,043.0 µg/mL	+/- 84.9899
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	S230420RSR	99%	5,037.3 µg/mL	+/- 84.8944
14	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCP5997	99%	5,034.8 µg/mL	+/- 84.8523
15	Propionitrile	107-12-0	BCCH7430	99%	25,000.0 µg/mL	+/- 408.7979
16	Methacrylonitrile	126-98-7	1012014	99%	12,520.0 µg/mL	+/- 204.7260

17	Isobutanol (2-Methyl-1-propanol)	78-83-1	SHBP7066	99%	62,545.0	µg/mL	+/- 1,022.7307
18	Tetrahydrofuran	109-99-9	SHBQ0910	99%	25,024.0	µg/mL	+/- 409.1904
19	Cyclohexane	110-82-7	MKQCQ2001	99%	5,039.5	µg/mL	+/- 84.9309
20	1-Butanol	71-36-3	101601K21K	99%	62,664.0	µg/mL	+/- 1,024.6765
21	tert-Amyl methyl ether (TAME)	994-05-8	HMBJ0825	99%	5,021.8	µg/mL	+/- 84.6332
22	n-Heptane (C7)	142-82-5	044743N07T	99%	5,041.5	µg/mL	+/- 84.9646
23	tert-Amyl ethyl ether (TAEF)	919-94-8	IKVYB	97%	5,049.3	µg/mL	+/- 85.0967
24	Methylcyclohexane	108-87-2	SHBN1699	99%	5,028.0	µg/mL	+/- 84.7371
25	Methyl methacrylate	80-62-6	MKQCQ2756	99%	5,012.3	µg/mL	+/- 84.4731
26	1,4-Dioxane	123-91-1	SHBN3770	99%	62,583.0	µg/mL	+/- 1,023.3520
27	2-Nitropropane	79-46-9	BCCB9352	97%	25,024.1	µg/mL	+/- 409.1914
28	Ethyl methacrylate	97-63-2	MKCN6206	97%	5,040.1	µg/mL	+/- 84.9414
29	1-Chlorohexane	544-10-5	BCBS3368V	99%	5,046.3	µg/mL	+/- 85.0461
30	trans-1,4-dichloro-2-butene	110-57-6	RD221227RSRA	94%	12,618.6	µg/mL	+/- 206.3376
31	1,2,3-Trimethylbenzene	526-73-8	8776.10-36	98%	5,002.6	µg/mL	+/- 84.3086
32	1,3-Diethylbenzene	141-93-5	BCBZ6270	99%	5,041.0	µg/mL	+/- 84.9562
33	Benzyl chloride	100-44-7	MKCM5986	99%	5,045.3	µg/mL	+/- 85.0292
34	1,4-Diethylbenzene	105-05-5	1135.72-1	99%	5,032.7	µg/mL	+/- 84.8158
35	1,2-Diethylbenzene	135-01-3	ECH2970181	99%	5,015.3	µg/mL	+/- 84.5236
36	1,3,5-Trichlorobenzene	108-70-3	11319AS	99%	5,003.8	µg/mL	+/- 84.3298
37	2-Methylnaphthalene	91-57-6	STBK0259	96%	5,002.4	µg/mL	+/- 84.3057

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

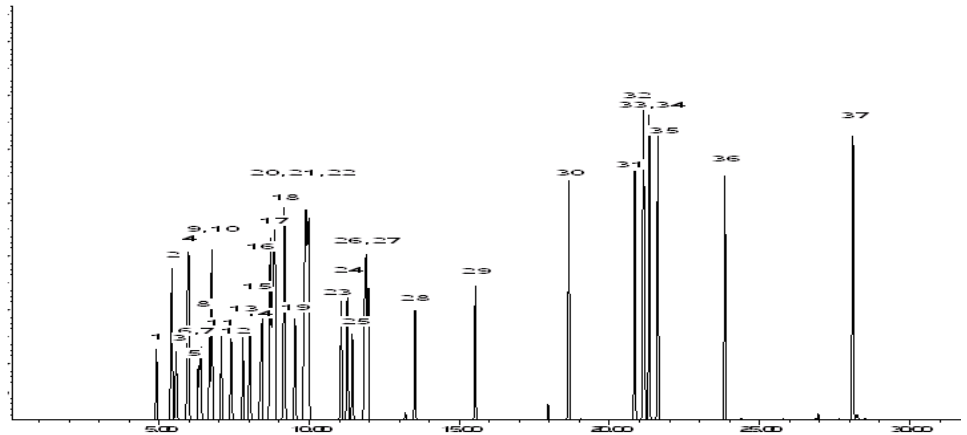
MSD

Split Vent:

25.0 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Apr-2023

Balance Serial # B251644995

Marlina Cowan
Marlina Cowan - Operations Tech II ARM QC

Date Passed: 02-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_MethylAcr_00003

CERTIFICATE OF ANALYSIS

Methyl acrylate

CATALOG NUMBER	N-12413-1G
LOT NUMBER	14104500
DATE CERTIFIED	01/06/22
EXPIRATION DATE	01/31/26
CAS NUMBER	96-33-3
MOLECULAR FORMULA	C ₄ H ₆ O ₂
MOLECULAR WEIGHT	86.10
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
% PURITY (GC/FID)	99.5
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:



Kristin R Jones

Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



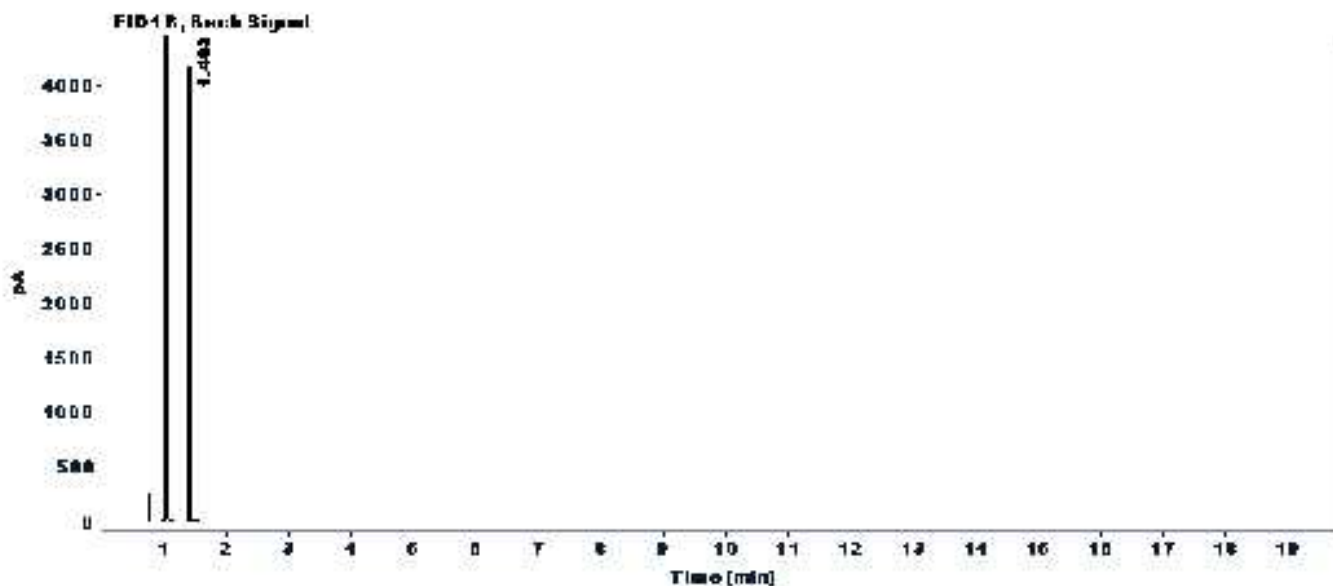
COA Form
Revision 3 (3/2015)

Print Date: 02/08/23

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2022 DATA\0122\methyl acrylate.D
Sample name: Methyl acrylate
Acq. method: FRANNY-BACK.M
Instrument: GC3 Location: 201
Injection date: 1/6/2022 9:14:16 AM Injection Vol: 1.000
Column name: RTX-5MS (30m x 0.25mm x 0.5µm) # Of Injections: 1



Signal: FID1 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
1.403	BB S	0.0102	2527.1797	4118.3921	100.0000
Sum			2527.1797		

Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



Reagent

MSV_nButylAcr_00005

CERTIFICATE OF ANALYSIS

n-Butyl acrylate

CATALOG NUMBER	N-12513-1G
LOT NUMBER	14061100
DATE CERTIFIED	01/06/20
EXPIRATION DATE	01/31/26
CAS NUMBER	141-32-2
MOLECULAR FORMULA	C ₇ H ₁₂ O ₂
MOLECULAR WEIGHT	128.17
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:



Kristin R Jones

Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



COA Form
Revision 3 (3/2015)

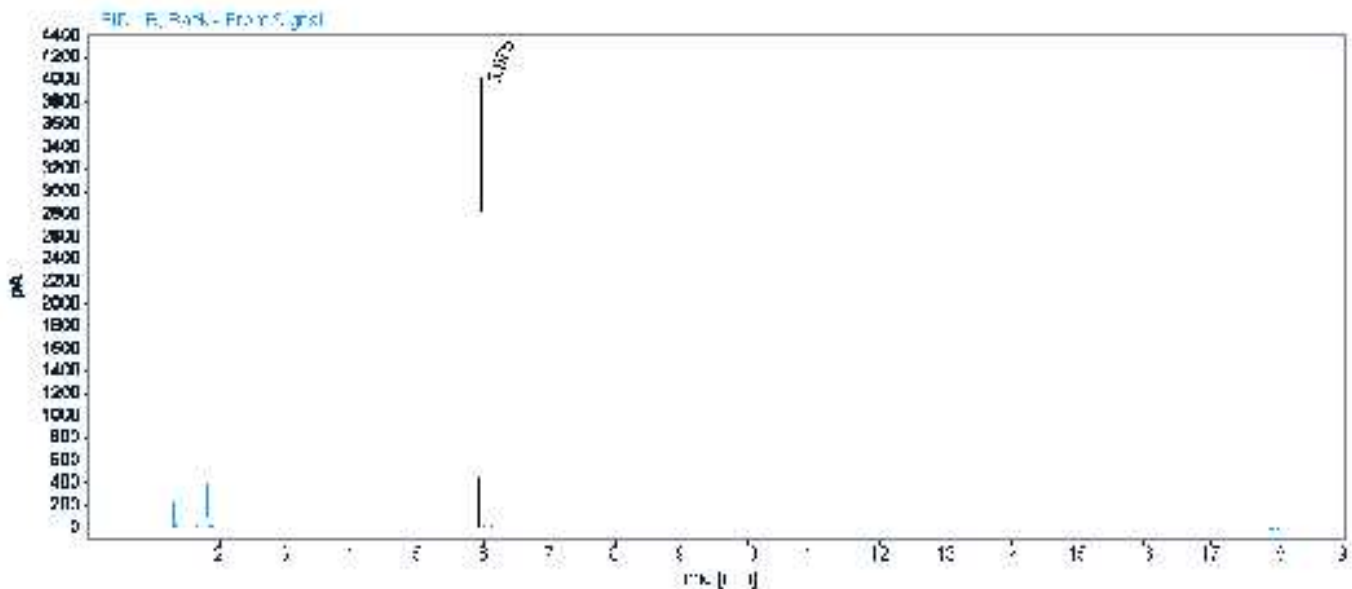
Print Date: 01/26/23

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2020 DATA\0120\butyl acrylate.D
Sample name: Butyl acrylate
Description:
Acq. method: S-10428M1.M
Instrument: GC3
Injection date: 1/6/2020 9:50:14 AM
Column name: HP-5ms Ultra Inert Diameter 250.000 Length 30.000 Particle Size 0.250

Location: 204
Injection Vol: 1.000
Of Injections: 1



Signal: FID1 B, Back - Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
5.975	BV	0.0298	8741.1309	3980.0339	100.0000
Sum			8741.1309		

Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



Reagent

MSV_Q_Ketones_00192



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721.SEC **Lot No.:** A0194631

Description : 8260 List 1/ Std #2 Ketones (2015)
8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1.SEC	S25F025	99%	12,530.8 µg/mL	+/- 433.0935
2	2-Butanone (MEK)	78-93-3.SEC	HDLUO	99%	12,522.8 µg/mL	+/- 432.8170
3	4-Methyl-2-pentanone (MIBK)	108-10-1.SEC	E29T040	99%	12,555.6 µg/mL	+/- 433.9507
4	2-Hexanone	591-78-6.SEC	Y3TUO	99%	12,580.4 µg/mL	+/- 434.8078

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

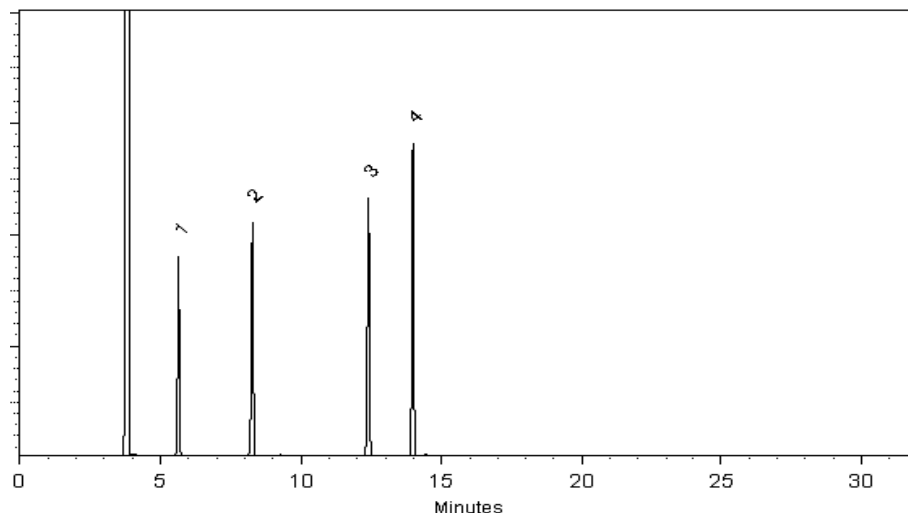
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bryan Snyder - Operations Tech I

Date Mixed: 14-Feb-2023

Balance Serial # 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Feb-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_Q_Ketones_00224



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721.SEC **Lot No.:** A0209876

Description : 8260 List 1/ Std #2 Ketones (2015)
8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1.SEC	U19I024	99%	12,580.0 µg/mL	+/- 434.7940
2	2-Butanone (MEK)	78-93-3.SEC	HDLUO	99%	12,611.6 µg/mL	+/- 435.8862
3	4-Methyl-2-pentanone (MIBK)	108-10-1.SEC	E29T040	99%	12,576.4 µg/mL	+/- 434.6696
4	2-Hexanone	591-78-6.SEC	NXXXXA	99%	12,574.8 µg/mL	+/- 434.6143

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

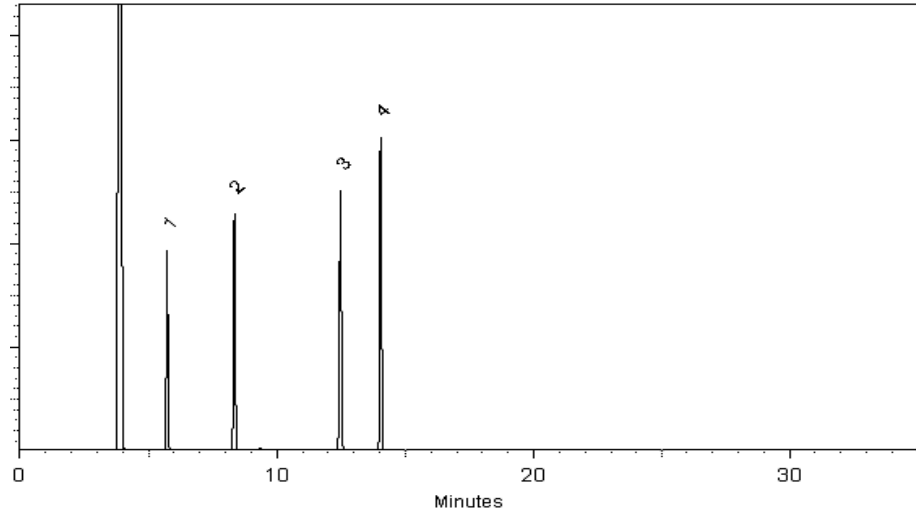
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 05-Apr-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_QC_2K_GAS_00225



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577488.SEC **Lot No.:** A0184924

Description : Custom Gases.SEC Standard
Custom Gases.SEC Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12) CAS # 75-71-8.SEC (Lot 27545) Purity 99%	2,000.3 µg/mL	+/- 17.8749 µg/mL Gravimetric +/- 112.9722 µg/mL Unstressed +/- 115.5779 µg/mL Stressed
2	Chloromethane (methyl chloride) CAS # 74-87-3.SEC (Lot 18343) Purity 99%	2,002.3 µg/mL	+/- 19.9305 µg/mL Gravimetric +/- 113.4254 µg/mL Unstressed +/- 116.0260 µg/mL Stressed
3	Vinyl chloride CAS # 75-01-4.SEC (Lot MKBK6872V) Purity 99%	2,002.4 µg/mL	+/- 21.8874 µg/mL Gravimetric +/- 113.7916 µg/mL Unstressed +/- 116.3843 µg/mL Stressed
4	1,3-Butadiene CAS # 106-99-0.SEC (Lot 26996) Purity 99%	2,003.4 µg/mL	+/- 24.0683 µg/mL Gravimetric +/- 114.2862 µg/mL Unstressed +/- 116.8705 µg/mL Stressed
5	Bromomethane (methyl bromide) CAS # 74-83-9.SEC (Lot 00017022) Purity 99%	2,007.9 µg/mL	+/- 17.0860 µg/mL Gravimetric +/- 113.2712 µg/mL Unstressed +/- 115.8898 µg/mL Stressed
6	Chloroethane (ethyl chloride) CAS # 75-00-3.SEC (Lot 00004202) Purity 98%	2,002.2 µg/mL	+/- 20.1773 µg/mL Gravimetric +/- 113.4619 µg/mL Unstressed +/- 116.0614 µg/mL Stressed
7	Dichlorofluoromethane (CFC-21) CAS # 75-43-4 * (Lot 12841600) Purity 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL Gravimetric +/- 112.1494 µg/mL Unstressed +/- 114.7730 µg/mL Stressed

8	Trichlorofluoromethane (CFC-11)			2,000.0	µg/mL	+/-	11.7371	µg/mL	Gravimetric	
	CAS #	75-69-4.SEC	(Lot 00010739)			+/-	112.1494		µg/mL	Unstressed
	Purity	99%				+/-	114.7730		µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)			2,000.5	µg/mL	+/-	25.4843	µg/mL	Gravimetric	
	CAS #	354-23-4 *	(Lot Q9B-64)			+/-	114.4324		µg/mL	Unstressed
	Purity	99%				+/-	117.0060		µg/mL	Stressed
Solvent:	P&T Methanol									
	CAS #	67-56-1								
	Purity	99%								

* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Column:

60m x 0.25mm x 1.4 μm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

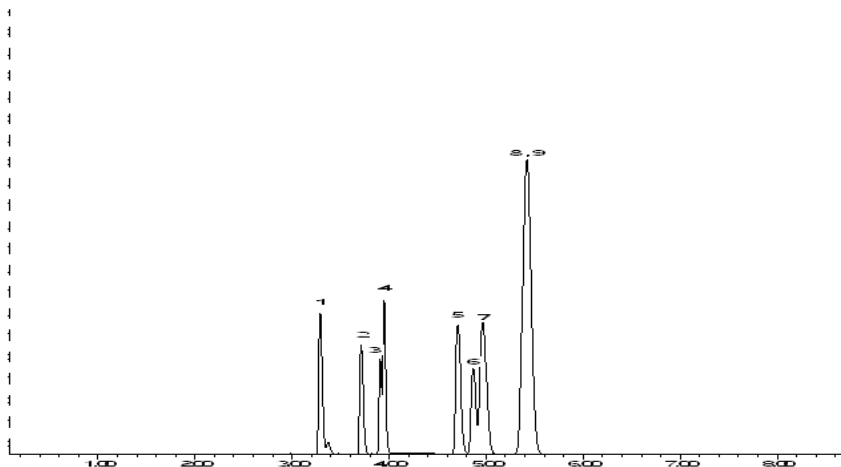
200°C

Det. Temp:

250°C

Det. Type:

MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish
Brandon Reish - Mix Technician

Date Mixed: 05-May-2022

Balance: 1127510105

Marlina Cowan
Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

- k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
 - Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_QC_2K_GAS_00236



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577488.SEC **Lot No.:** A0184924

Description : Custom Gases.SEC Standard
Custom Gases.SEC Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12) CAS # 75-71-8.SEC (Lot 27545) Purity 99%	2,000.3 µg/mL	+/- 17.8749 µg/mL Gravimetric +/- 112.9722 µg/mL Unstressed +/- 115.5779 µg/mL Stressed
2	Chloromethane (methyl chloride) CAS # 74-87-3.SEC (Lot 18343) Purity 99%	2,002.3 µg/mL	+/- 19.9305 µg/mL Gravimetric +/- 113.4254 µg/mL Unstressed +/- 116.0260 µg/mL Stressed
3	Vinyl chloride CAS # 75-01-4.SEC (Lot MKBK6872V) Purity 99%	2,002.4 µg/mL	+/- 21.8874 µg/mL Gravimetric +/- 113.7916 µg/mL Unstressed +/- 116.3843 µg/mL Stressed
4	1,3-Butadiene CAS # 106-99-0.SEC (Lot 26996) Purity 99%	2,003.4 µg/mL	+/- 24.0683 µg/mL Gravimetric +/- 114.2862 µg/mL Unstressed +/- 116.8705 µg/mL Stressed
5	Bromomethane (methyl bromide) CAS # 74-83-9.SEC (Lot 00017022) Purity 99%	2,007.9 µg/mL	+/- 17.0860 µg/mL Gravimetric +/- 113.2712 µg/mL Unstressed +/- 115.8898 µg/mL Stressed
6	Chloroethane (ethyl chloride) CAS # 75-00-3.SEC (Lot 00004202) Purity 98%	2,002.2 µg/mL	+/- 20.1773 µg/mL Gravimetric +/- 113.4619 µg/mL Unstressed +/- 116.0614 µg/mL Stressed
7	Dichlorofluoromethane (CFC-21) CAS # 75-43-4 * (Lot 12841600) Purity 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL Gravimetric +/- 112.1494 µg/mL Unstressed +/- 114.7730 µg/mL Stressed

8	Trichlorofluoromethane (CFC-11)			2,000.0	µg/mL	+/-	11.7371	µg/mL	Gravimetric	
	CAS #	75-69-4.SEC	(Lot 00010739)			+/-	112.1494		µg/mL	Unstressed
	Purity	99%				+/-	114.7730		µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)			2,000.5	µg/mL	+/-	25.4843	µg/mL	Gravimetric	
	CAS #	354-23-4 *	(Lot Q9B-64)			+/-	114.4324		µg/mL	Unstressed
	Purity	99%				+/-	117.0060		µg/mL	Stressed
Solvent:	P&T Methanol									
	CAS #	67-56-1								
	Purity	99%								

* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

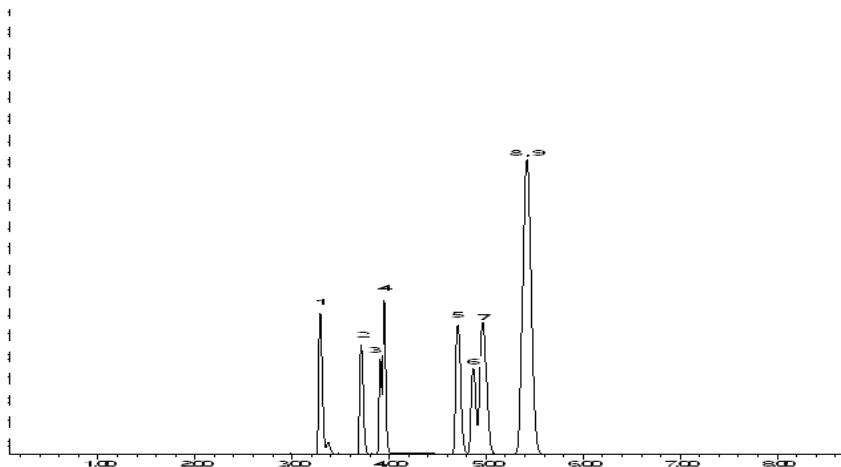
200°C

Det. Temp:

250°C

Det. Type:

MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish
Brandon Reish - Mix Technician

Date Mixed: 05-May-2022

Balance: 1127510105

Marlina Cowan
Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

- k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
 - Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_V_2CLEVE_00187



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577492 **Lot No.:** A0197472

Description : Custom 2-CEVE Standard
Custom 2-CEVE Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Chloroethyl vinyl ether	110-75-8	MKBS6526V	99%	5,040.0 µg/mL	+/- 62.7237

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

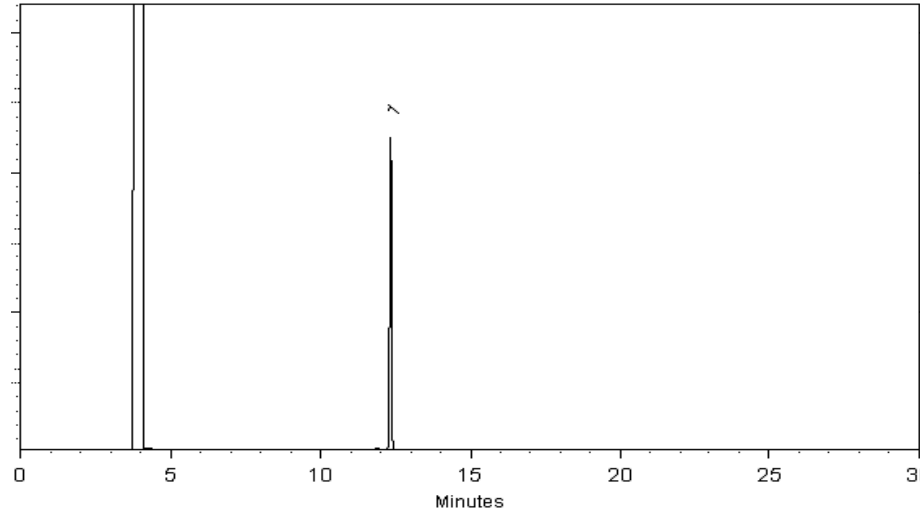
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 26-Apr-2023

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V_Ketones_00170



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0193494

Description : 8260 List 1/ Std #2 Ketones (2015)
8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	12,581.8 µg/mL	+/- 434.7671
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	12,578.5 µg/mL	+/- 434.6548
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	12,602.3 µg/mL	+/- 435.4755
4	2-Hexanone	591-78-6	MKCQ6663	99%	12,587.5 µg/mL	+/- 434.9658

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

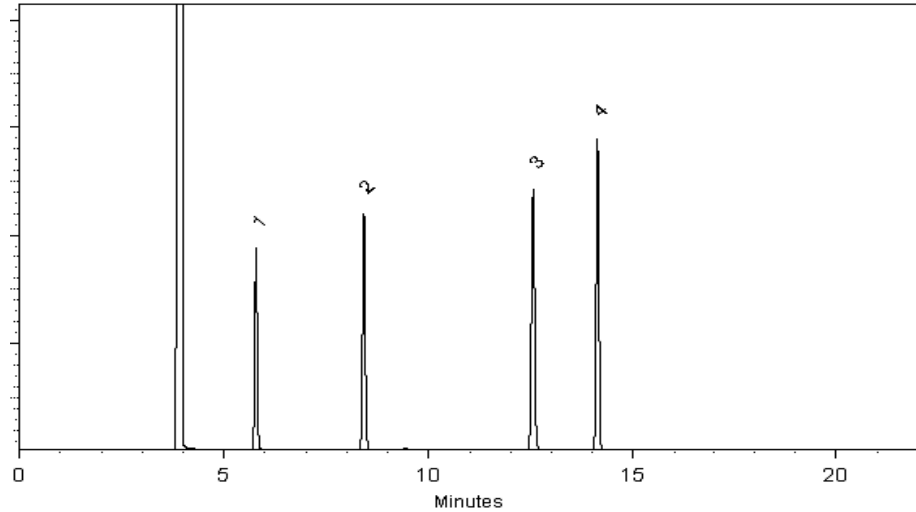
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bethany Lowery

Bethany Lowery - Operations Tech I

Date Mixed: 12-Jan-2023

Balance Serial # B251644995

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V_Ketones_00172



110 Benner Circle
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0193494

Description : 8260 List 1/ Std #2 Ketones (2015)
8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	12,581.8 µg/mL	+/- 434.7671
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	12,578.5 µg/mL	+/- 434.6548
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	12,602.3 µg/mL	+/- 435.4755
4	2-Hexanone	591-78-6	MKCQ6663	99%	12,587.5 µg/mL	+/- 434.9658

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

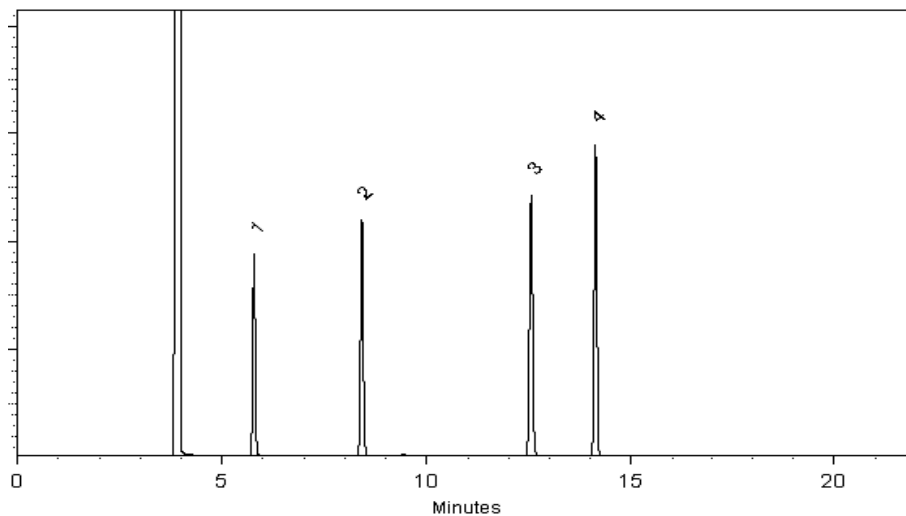
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bethany Lowery

Bethany Lowery - Operations Tech I

Date Mixed: 12-Jan-2023

Balance Serial # B251644995

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V_Ketones_00199



110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0210935

Description : 8260 List 1/ Std #2 Ketones (2015)
8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	12,591.3 µg/mL	+/- 435.1857
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	12,561.0 µg/mL	+/- 434.1373
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	12,580.0 µg/mL	+/- 434.7940
4	2-Hexanone	591-78-6	MKCV1997	99%	12,580.7 µg/mL	+/- 434.8170

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

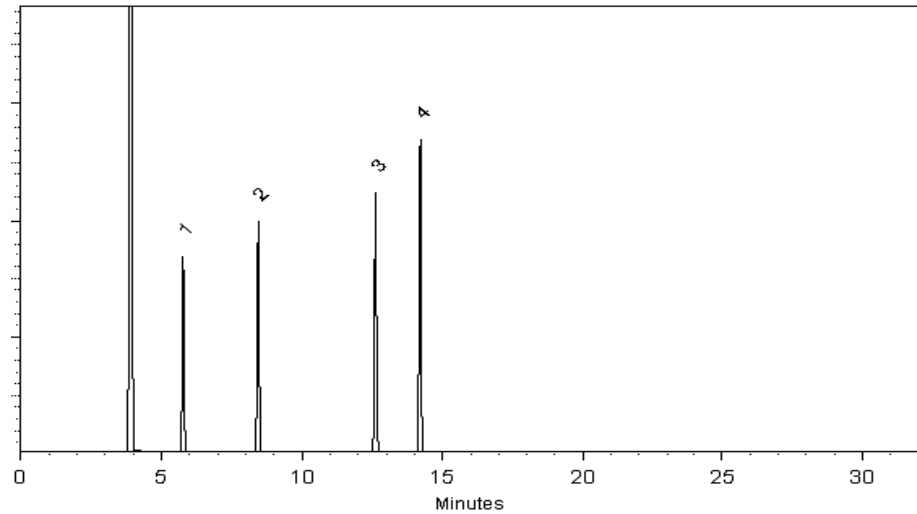
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 30-Apr-2024

Balance Serial # B707717271

Dillan Murphy - Operations Technician I

Date Passed: 02-May-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V_PentaCL_00049



CERTIFIED REFERENCE MATERIAL

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577491 **Lot No.:** A0184174

Description : Custom Pentachloroethane Standard

Custom Pentachloroethane Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Pentachloroethane CAS # 76-01-7 Purity 99% (Lot 10518800)	5,022.0 µg/mL	+/- 29.4719 µg/mL Gravimetric +/- 281.6071 µg/mL Unstressed +/- 288.1950 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

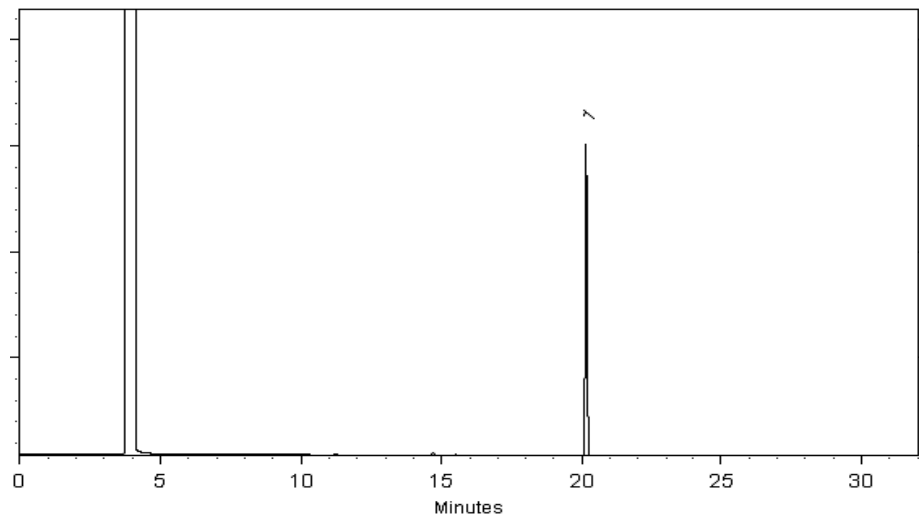
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Nick Yaw
Nick Yaw - Operations Tech I

Christie Mills
Christie Mills - Operations Technician II

Date Mixed: 15-Apr-2022 **Balance:** B707717271

Date Passed: 20-Apr-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

- k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
 - Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_V_SMFreon_00044



CERTIFIED REFERENCE MATERIAL

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Tel: (800)356-1688
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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577490 **Lot No.:** A0184508

Description : Custom SM Freons Standard
Custom SM Freons Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Chlorotrifluoroethylene	2,000.6 µg/mL	+/-	37.3988	µg/mL	Gravimetric
	CAS # 79-38-9 (Lot 202600)		+/-	117.6695	µg/mL	Unstressed
	Purity 99%		+/-	120.1742	µg/mL	Stressed
2	Chlorodifluoromethane (CFC-22)	2,004.5 µg/mL	+/-	79.7514	µg/mL	Gravimetric
	CAS # 75-45-6 (Lot Q162-44)		+/-	137.3187	µg/mL	Unstressed
	Purity 99%		+/-	139.4793	µg/mL	Stressed
3	2-Chloro-1,1,1-trifluoroethane (HCFC-133a)	2,000.3 µg/mL	+/-	53.9352	µg/mL	Gravimetric
	CAS # 75-88-7 (Lot Q157-146)		+/-	123.9040	µg/mL	Unstressed
	Purity 99%		+/-	126.2843	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

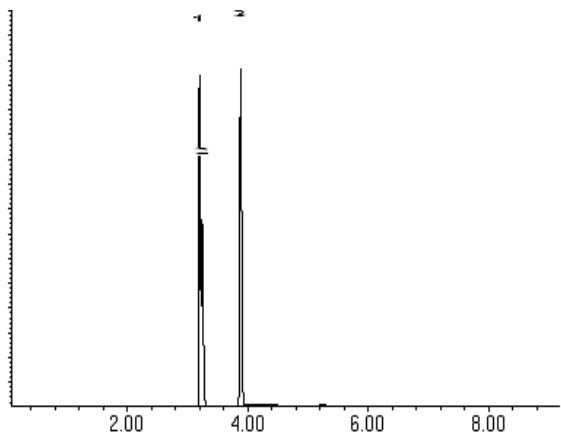
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 25-Apr-2022 Balance: B707717271

Christie Mills
Christie Mills - Operations Technician II

Date Passed: 02-May-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

- k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
 - Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Method 8260D

Volatile Organic Compounds (GC/MS)
by Method 8260D

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Matrix: Water

Level: Low

GC Column (1): R-624SilMS 3 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
HD-MW-18S-0/1-0	410-191048-1	101	104	101	90
HD-MW-111-0/1-0	410-191048-2	105	105	102	89
HD-MW-18D-0/1-0	410-191048-3	101	105	102	89
HD-GM-1D-0/1-0	410-191048-4	99	98	104	90
HD-MW-150-0/1-0	410-191048-5	100	103	102	90
HD-Cole D-0/1-0	410-191048-6	99	102	103	90
HD-MW-69-0/1-0	410-191048-7	100	101	102	90
HD-QC2-0/1-1	410-191048-8	100	105	100	89
HD-Cole Steel MW-12-0/1-0	410-191048-9	101	103	102	91
HD-MW-165-0/1-0	410-191048-10	99	104	102	89
HD-FOLK (RW-4)-0/1-0	410-191048-11	102	102	101	89
HD-MW-43D-0/1-0	410-191048-12	101	105	102	89
HD-MW-16S-0/1-0	410-191048-13	102	105	102	89
HD-MW-82-0/1-0	410-191048-14	102	103	101	88
HD-QC2-0/1-3	410-191048-15	100	100	101	89
HD-QC2-0/1-4	410-191048-16	99	102	102	92
HD-QC3-0/1-2	410-191048-17	99	99	103	90
HD-MW-110-0/1-0	410-191048-18	99	102	102	88
	MB 410-560875/6	101	107	103	92
	MB 410-560989/10	99	105	104	90
	LCS 410-560875/4	95	102	107	92
	LCS 410-560989/7	97	103	106	90
	LCSD 410-560989/8	95	99	107	93
HD-MW-18D-0/1-0MS MS	410-191048-3 MS	98	100	106	93
HD-MW-18D-0/1-0MSD MSD	410-191048-3 MSD	96	100	106	91

QC LIMITS

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

80-120
80-120
80-120
80-120

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: LC08X33.D

Lab ID: LCS 410-560875/4

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	20.3	101	79-120	
1,1,1-Trichloroethane	20.0	17.1	86	73-120	
1,1,2,2-Tetrachloroethane	20.0	22.3	112	72-120	
1,1,2-Trichloroethane	20.0	21.8	109	80-120	
1,1-Dichloroethane	20.0	19.9	99	80-120	
1,1-Dichloroethene	20.0	16.9	84	80-131	
1,2-Dibromoethane (EDB)	20.0	21.7	108	77-120	
1,2-Dichloroethane	20.0	19.2	96	73-124	
1,2-Dichloropropane	20.0	21.0	105	80-120	
2-Butanone (MEK)	250	281	112	59-135	
2-Hexanone	250	308	123	56-135	
4-Methyl-2-pentanone (MIBK)	250	268	107	62-133	
Acetone	250	299	120	57-143	
Benzene	20.0	19.3	97	80-120	
Bromochloromethane	20.0	19.3	96	80-120	
Bromodichloromethane	20.0	19.6	98	71-120	
Bromoform	20.0	21.2	106	51-120	
Bromomethane	20.0	17.9	89	53-128	
Carbon disulfide	20.0	17.2	86	65-128	
Carbon tetrachloride	20.0	17.6	88	64-134	
Chlorobenzene	20.0	20.6	103	80-120	
Chloroethane	20.0	19.8	99	55-123	
Chloroform	20.0	18.0	90	80-120	
Chloromethane	20.0	21.6	108	39-134	
cis-1,2-Dichloroethene	20.0	18.7	94	80-125	
cis-1,3-Dichloropropene	20.0	17.3	86	75-120	
Dibromochloromethane	20.0	22.0	110	71-120	
Ethylbenzene	20.0	19.4	97	80-120	
Methyl tert-butyl ether	20.0	17.1	85	69-122	
Methylene Chloride	20.0	17.1	86	80-120	
Styrene	20.0	18.7	94	80-120	
Tetrachloroethene	20.0	19.9	99	80-120	
Toluene	20.0	20.7	103	80-120	
trans-1,2-Dichloroethene	20.0	17.7	89	80-126	
trans-1,3-Dichloropropene	20.0	19.3	96	67-120	
Trichloroethene	20.0	18.1	91	80-120	
Vinyl chloride	20.0	19.3	96	56-120	
Xylenes, Total	60.0	57.9	97	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: LC09X06.D

Lab ID: LCS 410-560989/7

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	20.6	103	79-120	
1,1,1-Trichloroethane	20.0	17.9	89	73-120	
1,1,2,2-Tetrachloroethane	20.0	22.6	113	72-120	
1,1,2-Trichloroethane	20.0	22.2	111	80-120	
1,1-Dichloroethane	20.0	21.1	106	80-120	
1,1-Dichloroethene	20.0	18.8	94	80-131	
1,2-Dibromoethane (EDB)	20.0	20.7	104	77-120	
1,2-Dichloroethane	20.0	19.6	98	73-124	
1,2-Dichloropropane	20.0	21.5	108	80-120	
2-Butanone (MEK)	250	274	110	59-135	
2-Hexanone	250	281	113	56-135	
4-Methyl-2-pentanone (MIBK)	250	260	104	62-133	
Acetone	250	289	116	57-143	
Benzene	20.0	20.2	101	80-120	
Bromochloromethane	20.0	19.6	98	80-120	
Bromodichloromethane	20.0	19.5	98	71-120	
Bromoform	20.0	19.8	99	51-120	
Bromomethane	20.0	17.1	85	53-128	
Carbon disulfide	20.0	19.4	97	65-128	
Carbon tetrachloride	20.0	18.3	92	64-134	
Chlorobenzene	20.0	20.3	101	80-120	
Chloroethane	20.0	19.8	99	55-123	
Chloroform	20.0	18.9	94	80-120	
Chloromethane	20.0	20.5	102	39-134	
cis-1,2-Dichloroethene	20.0	19.6	98	80-125	
cis-1,3-Dichloropropene	20.0	17.8	89	75-120	
Dibromochloromethane	20.0	21.9	109	71-120	
Ethylbenzene	20.0	19.6	98	80-120	
Methyl tert-butyl ether	20.0	17.1	85	69-122	
Methylene Chloride	20.0	18.8	94	80-120	
Styrene	20.0	18.2	91	80-120	
Tetrachloroethene	20.0	20.2	101	80-120	
Toluene	20.0	20.6	103	80-120	
trans-1,2-Dichloroethene	20.0	19.2	96	80-126	
trans-1,3-Dichloropropene	20.0	19.7	98	67-120	
Trichloroethene	20.0	18.8	94	80-120	
Vinyl chloride	20.0	18.5	92	56-120	
Xylenes, Total	60.0	58.0	97	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: LC09X07.D

Lab ID: LCSD 410-560989/8

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	20.0	20.8	104	1	30	79-120	
1,1,1-Trichloroethane	20.0	17.9	89	0	30	73-120	
1,1,2,2-Tetrachloroethane	20.0	21.8	109	4	30	72-120	
1,1,2-Trichloroethane	20.0	22.4	112	1	30	80-120	
1,1-Dichloroethane	20.0	21.1	106	0	30	80-120	
1,1-Dichloroethene	20.0	18.2	91	3	30	80-131	
1,2-Dibromoethane (EDB)	20.0	21.1	106	2	30	77-120	
1,2-Dichloroethane	20.0	19.3	96	1	30	73-124	
1,2-Dichloropropane	20.0	21.6	108	0	30	80-120	
2-Butanone (MEK)	250	274	110	0	30	59-135	
2-Hexanone	250	295	118	5	30	56-135	
4-Methyl-2-pentanone (MIBK)	250	264	106	1	30	62-133	
Acetone	250	290	116	0	30	57-143	
Benzene	20.0	20.5	102	1	30	80-120	
Bromochloromethane	20.0	19.1	96	2	30	80-120	
Bromodichloromethane	20.0	19.7	99	1	30	71-120	
Bromoform	20.0	20.1	100	1	30	51-120	
Bromomethane	20.0	17.5	87	2	30	53-128	
Carbon disulfide	20.0	19.3	96	1	30	65-128	
Carbon tetrachloride	20.0	18.8	94	2	30	64-134	
Chlorobenzene	20.0	20.9	105	3	30	80-120	
Chloroethane	20.0	19.7	99	0	30	55-123	
Chloroform	20.0	18.6	93	1	30	80-120	
Chloromethane	20.0	20.8	104	2	30	39-134	
cis-1,2-Dichloroethene	20.0	19.7	98	0	30	80-125	
cis-1,3-Dichloropropene	20.0	18.0	90	1	30	75-120	
Dibromochloromethane	20.0	21.8	109	1	30	71-120	
Ethylbenzene	20.0	20.4	102	4	30	80-120	
Methyl tert-butyl ether	20.0	16.9	85	1	30	69-122	
Methylene Chloride	20.0	18.1	91	4	30	80-120	
Styrene	20.0	19.2	96	5	30	80-120	
Tetrachloroethene	20.0	20.8	104	2	30	80-120	
Toluene	20.0	21.8	109	5	30	80-120	
trans-1,2-Dichloroethene	20.0	19.0	95	1	30	80-126	
trans-1,3-Dichloropropene	20.0	19.8	99	1	30	67-120	
Trichloroethene	20.0	19.1	95	1	30	80-120	
Vinyl chloride	20.0	18.9	95	2	30	56-120	
Xylenes, Total	60.0	59.7	100	3	30	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: LC08X44.D

Lab ID: 410-191048-3 MS

Client ID: HD-MW-18D-0/1-OMS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	ND	21.0	105	75-120	
1,1,1-Trichloroethane	20.0	ND	19.5	98	68-120	
1,1,2,2-Tetrachloroethane	20.0	ND	21.5	107	71-122	
1,1,2-Trichloroethane	20.0	ND	21.8	109	80-120	
1,1-Dichloroethane	20.0	ND	22.0	110	74-120	
1,1-Dichloroethene	20.0	ND	19.3	97	74-121	
1,2-Dibromoethane (EDB)	20.0	ND	21.2	106	80-120	
1,2-Dichloroethane	20.0	ND	20.3	102	69-120	
1,2-Dichloropropane	20.0	ND	22.7	113	77-120	
2-Butanone (MEK)	250	ND	269	108	65-131	
2-Hexanone	250	ND	283	113	67-132	
4-Methyl-2-pentanone (MIBK)	250	ND	258	103	66-129	
Acetone	250	ND	274	110	58-141	
Benzene	20.0	ND	21.7	108	81-120	
Bromochloromethane	20.0	ND	20.3	102	76-126	
Bromodichloromethane	20.0	ND	20.8	104	73-120	
Bromoform	20.0	ND	20.6	103	64-125	
Bromomethane	20.0	ND	20.8	104	43-128	
Carbon disulfide	20.0	ND	20.4	102	75-132	
Carbon tetrachloride	20.0	ND	20.9	105	63-128	
Chlorobenzene	20.0	ND	22.3	111	80-120	
Chloroethane	20.0	ND	22.5	112	60-121	
Chloroform	20.0	ND	19.7	98	74-120	
Chloromethane	20.0	ND	24.7	123	49-126	
cis-1,2-Dichloroethene	20.0	7.3	28.5	106	81-121	
cis-1,3-Dichloropropene	20.0	ND	17.6	88	71-120	
Dibromochloromethane	20.0	ND	22.4	112	74-120	
Ethylbenzene	20.0	ND	20.9	105	78-120	
Methyl tert-butyl ether	20.0	ND	17.0	85	75-120	
Methylene Chloride	20.0	ND	18.4	92	77-120	
Styrene	20.0	ND	19.7	99	78-120	
Tetrachloroethene	20.0	ND	22.9	114	68-125	
Toluene	20.0	ND	22.4	112	79-120	
trans-1,2-Dichloroethene	20.0	ND	20.7	103	74-120	
trans-1,3-Dichloropropene	20.0	ND	18.8	94	72-120	
Trichloroethene	20.0	1.3	22.2	105	76-120	
Vinyl chloride	20.0	ND	24.0	120	52-120	
Xylenes, Total	60.0	ND	61.9	103	78-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: LC08X45.D

Lab ID: 410-191048-3 MSD

Client ID: HD-MW-18D-0/1-0MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	20.0	22.1	111	5	30	75-120	
1,1,1-Trichloroethane	20.0	20.3	102	4	30	68-120	
1,1,2,2-Tetrachloroethane	20.0	23.2	116	8	30	71-122	
1,1,2-Trichloroethane	20.0	23.4	117	7	30	80-120	
1,1-Dichloroethane	20.0	23.5	118	7	30	74-120	
1,1-Dichloroethene	20.0	20.2	101	5	30	74-121	
1,2-Dibromoethane (EDB)	20.0	22.4	112	5	30	80-120	
1,2-Dichloroethane	20.0	21.0	105	3	30	69-120	
1,2-Dichloropropane	20.0	23.4	117	3	30	77-120	
2-Butanone (MEK)	250	288	115	6	30	65-131	
2-Hexanone	250	300	120	6	30	67-132	
4-Methyl-2-pentanone (MIBK)	250	273	109	6	30	66-129	
Acetone	250	311	124	12	30	58-141	
Benzene	20.0	22.6	113	4	30	81-120	
Bromochloromethane	20.0	21.4	107	5	30	76-126	
Bromodichloromethane	20.0	21.5	108	3	30	73-120	
Bromoform	20.0	21.4	107	4	30	64-125	
Bromomethane	20.0	20.6	103	1	30	43-128	
Carbon disulfide	20.0	21.6	108	6	30	75-132	
Carbon tetrachloride	20.0	21.4	107	2	30	63-128	
Chlorobenzene	20.0	23.1	116	4	30	80-120	
Chloroethane	20.0	23.5	117	4	30	60-121	
Chloroform	20.0	20.5	102	4	30	74-120	
Chloromethane	20.0	24.1	120	2	30	49-126	
cis-1,2-Dichloroethene	20.0	29.9	113	5	30	81-121	
cis-1,3-Dichloropropene	20.0	18.1	91	3	30	71-120	
Dibromochloromethane	20.0	23.3	116	4	30	74-120	
Ethylbenzene	20.0	22.3	112	6	30	78-120	
Methyl tert-butyl ether	20.0	17.6	88	3	30	75-120	
Methylene Chloride	20.0	19.3	97	5	30	77-120	
Styrene	20.0	21.2	106	7	30	78-120	
Tetrachloroethene	20.0	23.6	118	3	30	68-125	
Toluene	20.0	23.4	117	5	30	79-120	
trans-1,2-Dichloroethene	20.0	21.8	109	6	30	74-120	
trans-1,3-Dichloropropene	20.0	19.4	97	3	30	72-120	
Trichloroethene	20.0	22.9	108	3	30	76-120	
Vinyl chloride	20.0	23.7	118	1	30	52-120	
Xylenes, Total	60.0	66.0	110	6	30	78-120	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Lab File ID: LC08X35.D

Lab Sample ID: MB 410-560875/6

Matrix: Water

Heated Purge: (Y/N) N

Instrument ID: 9915

Date Analyzed: 10/08/2024 21:57

GC Column: R-624SilMS 30m ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-560875/4	LC08X33.D	10/08/2024 21:12
HD-MW-18S-0/1-0	410-191048-1	LC08X41.D	10/09/2024 00:11
HD-MW-111-0/1-0	410-191048-2	LC08X42.D	10/09/2024 00:33
HD-MW-18D-0/1-0	410-191048-3	LC08X43.D	10/09/2024 00:56
HD-MW-18D-0/1-0MS MS	410-191048-3 MS	LC08X44.D	10/09/2024 01:18
HD-MW-18D-0/1-0MSD MSD	410-191048-3 MSD	LC08X45.D	10/09/2024 01:41
HD-GM-1D-0/1-0	410-191048-4	LC08X46.D	10/09/2024 02:03
HD-MW-150-0/1-0	410-191048-5	LC08X47.D	10/09/2024 02:25
HD-Cole D-0/1-0	410-191048-6	LC08X48.D	10/09/2024 02:48
HD-MW-69-0/1-0	410-191048-7	LC08X49.D	10/09/2024 03:10
HD-QC2-0/1-1	410-191048-8	LC08X50.D	10/09/2024 03:33
HD-Cole Steel MW-12-0/1-0	410-191048-9	LC08X51.D	10/09/2024 03:55
HD-MW-165-0/1-0	410-191048-10	LC08X52.D	10/09/2024 04:18
HD-FOLK (RW-4) -0/1-0	410-191048-11	LC08X53.D	10/09/2024 04:40
HD-MW-43D-0/1-0	410-191048-12	LC08X54.D	10/09/2024 05:03
HD-MW-16S-0/1-0	410-191048-13	LC08X55.D	10/09/2024 05:25
HD-MW-82-0/1-0	410-191048-14	LC08X56.D	10/09/2024 05:47

FORM IV

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Lab File ID: LC09X09.D

Lab Sample ID: MB 410-560989/10

Matrix: Water

Heated Purge: (Y/N) N

Instrument ID: 9915

Date Analyzed: 10/09/2024 11:33

GC Column: R-624SilMS 30m ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-560989/7	LC09X06.D	10/09/2024 10:26
	LCSD 410-560989/8	LC09X07.D	10/09/2024 10:48
HD-QC2-0/1-3	410-191048-15	LC09X25.D	10/09/2024 17:34
HD-QC2-0/1-4	410-191048-16	LC09X26.D	10/09/2024 17:56
HD-QC3-0/1-2	410-191048-17	LC09X27.D	10/09/2024 18:19
HD-MW-110-0/1-0	410-191048-18	LC09X28.D	10/09/2024 18:41

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1
Environment Testing, LLC

SDG No.: _____

Lab File ID: LL15T01.D BFB Injection Date: 07/15/2024

Instrument ID: 9915 BFB Injection Time: 13:34

Analysis Batch No.: 528230

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.0
75	30.0 - 60.0 % of mass 95	45.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.3
173	Less than 2.0 % of mass 174	0.6 (0.7) 1
174	Greater than 50% of mass 95	79.1
175	5.0 - 9.0 % of mass 174	5.6 (7.1) 1
176	95.0 - 101.0 % of mass 174	75.6 (95.6) 1
177	5.0 - 9.0 % of mass 176	4.9 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-528230/3	LL15X02.D	07/15/2024	14:18
	IC 410-528230/4	LL15X03.D	07/15/2024	14:41
	IC 410-528230/5	LL15X04.D	07/15/2024	15:03
	IC 410-528230/6	LL15X05.D	07/15/2024	15:26
	IC 410-528230/7	LL15X06.D	07/15/2024	15:48
	IC 410-528230/8	LL15X07.D	07/15/2024	16:11
	IC 410-528230/12	LL15X11.D	07/15/2024	17:41
	IC 410-528230/13	LL15X12.D	07/15/2024	18:04
	IC 410-528230/14	LL15X13.D	07/15/2024	18:26
	IC 410-528230/15	LL15X14.D	07/15/2024	18:49
	ICIS 410-528230/16	LL15X15.D	07/15/2024	19:11
	IC 410-528230/17	LL15X16.D	07/15/2024	19:34
	IC 410-528230/18	LL15X17.D	07/15/2024	19:57
	ICV 410-528230/20	LL15X19.D	07/15/2024	20:42

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Lab File ID: LC08T31.D

BFB Injection Date: 10/08/2024

Instrument ID: 9915

BFB Injection Time: 20:12

Analysis Batch No.: 560875

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.2
75	30.0 - 60.0 % of mass 95	46.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	0.7 (0.8) 1
174	Greater than 50% of mass 95	84.4
175	5.0 - 9.0 % of mass 174	5.8 (6.9) 1
176	95.0 - 101.0 % of mass 174	80.3 (95.1) 1
177	5.0 - 9.0 % of mass 176	5.0 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-560875/3	LC08X32.D	10/08/2024	20:49
	LCS 410-560875/4	LC08X33.D	10/08/2024	21:12
	MB 410-560875/6	LC08X35.D	10/08/2024	21:57
HD-MW-18S-0/1-0	410-191048-1	LC08X41.D	10/09/2024	0:11
HD-MW-111-0/1-0	410-191048-2	LC08X42.D	10/09/2024	0:33
HD-MW-18D-0/1-0	410-191048-3	LC08X43.D	10/09/2024	0:56
HD-MW-18D-0/1-0MS MS	410-191048-3 MS	LC08X44.D	10/09/2024	1:18
HD-MW-18D-0/1-0MSD MSD	410-191048-3 MSD	LC08X45.D	10/09/2024	1:41
HD-GM-1D-0/1-0	410-191048-4	LC08X46.D	10/09/2024	2:03
HD-MW-150-0/1-0	410-191048-5	LC08X47.D	10/09/2024	2:25
HD-Cole D-0/1-0	410-191048-6	LC08X48.D	10/09/2024	2:48
HD-MW-69-0/1-0	410-191048-7	LC08X49.D	10/09/2024	3:10
HD-QC2-0/1-1	410-191048-8	LC08X50.D	10/09/2024	3:33
HD-Cole Steel MW-12-0/1-0	410-191048-9	LC08X51.D	10/09/2024	3:55
HD-MW-165-0/1-0	410-191048-10	LC08X52.D	10/09/2024	4:18
HD-FOLK (RW-4)-0/1-0	410-191048-11	LC08X53.D	10/09/2024	4:40
HD-MW-43D-0/1-0	410-191048-12	LC08X54.D	10/09/2024	5:03
HD-MW-16S-0/1-0	410-191048-13	LC08X55.D	10/09/2024	5:25
HD-MW-82-0/1-0	410-191048-14	LC08X56.D	10/09/2024	5:47

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1
Environment Testing, LLC

SDG No.: _____

Lab File ID: LC09T01.D BFB Injection Date: 10/09/2024

Instrument ID: 9915 BFB Injection Time: 08:02

Analysis Batch No.: 560989

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.3
75	30.0 - 60.0 % of mass 95	46.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.3
173	Less than 2.0 % of mass 174	0.8 (0.9) 1
174	Greater than 50% of mass 95	85.2
175	5.0 - 9.0 % of mass 174	6.4 (7.6) 1
176	95.0 - 101.0 % of mass 174	81.4 (95.6) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-560989/6	LC09X05.D	10/09/2024	10:03
	LCS 410-560989/7	LC09X06.D	10/09/2024	10:26
	LCSD 410-560989/8	LC09X07.D	10/09/2024	10:48
	MB 410-560989/10	LC09X09.D	10/09/2024	11:33
HD-QC2-0/1-3	410-191048-15	LC09X25.D	10/09/2024	17:34
HD-QC2-0/1-4	410-191048-16	LC09X26.D	10/09/2024	17:56
HD-QC3-0/1-2	410-191048-17	LC09X27.D	10/09/2024	18:19
HD-MW-110-0/1-0	410-191048-18	LC09X28.D	10/09/2024	18:41

FORM VIII

Job No.: 410-191048-1

Sample No.: ICIS 410-528230/16

Date Analyzed: 07/15/2024 19:11

Instrument ID: 9915

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): LL15X15.D

Heated Purge: (Y/N) N

Calibration ID: 63834

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		295545	4.18	1137735	7.63	856741	11.13
UPPER LIMIT		591090	4.68	2275470	8.13	1713482	11.63
LOWER LIMIT		147773	3.68	568868	7.13	428371	10.63
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-528230/20		296030	4.18	1117529	7.63	869137	11.13
CCVIS 410-560875/3		239817	4.14	1104880	7.62	817209	11.12
CCVIS 410-560989/6		267454	4.12	1239606	7.62	910510	11.13

TBAd10 = t-Butyl alcohol-d10 (IS)

FB = Fluorobenzene (IS)

CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

```
# Column used to flag values outside QC limits
```

FORM VIII

Job No.: 410-191048-1

Sample No.: ICIS 410-528230/16

Date Analyzed: 07/15/2024 19:11

Instrument ID: 9915

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): LL15X15.D

Heated Purge: (Y/N) N

Calibration ID: 63834

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		487038	13.01				
UPPER LIMIT		974076	13.51				
LOWER LIMIT		243519	12.51				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-528230/20		500986	13.01				
CCVIS 410-560875/3		462850	13.01				
CCVIS 410-560989/6		496775	13.01				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = $\pm$ 0.5 minutes of internal standard RT

```
# Column used to flag values outside QC limits
```

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1
Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-560875/3 Date Analyzed: 10/08/2024 20:49

Instrument ID: 9915 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): LC08X32.D Heated Purge: (Y/N) N

Calibration ID: 63834

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		239817	4.14	1104880	7.62	817209	11.12
UPPER LIMIT		479634	4.64	2209760	8.12	1634418	11.62
LOWER LIMIT		119909	3.64	552440	7.12	408605	10.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-560875/4		240539	4.11	1125520	7.62	809105	11.12
MB 410-560875/6		243478	4.12	1128087	7.63	797962	11.13
410-191048-1	HD-MW-18S-0/1-0	229471	4.09	1023622	7.62	749016	11.12
410-191048-2	HD-MW-111-0/1-0	227092	4.15	1012183	7.62	735511	11.12
410-191048-3	HD-MW-18D-0/1-0	220297	4.12	1014871	7.62	731712	11.13
410-191048-3 MS	HD-MW-18D-0/1-0MS MS	238467	4.11	1086868	7.62	812417	11.12
410-191048-3 MSD	HD-MW-18D-0/1-0MSD MSD	237636	4.17	1116451	7.63	817489	11.13
410-191048-4	HD-GM-1D-0/1-0	244186	4.15	1072996	7.62	752629	11.13
410-191048-5	HD-MW-150-0/1-0	227397	4.12	1014074	7.62	743695	11.12
410-191048-6	HD-Cole D-0/1-0	217961	4.15	1031299	7.63	737125	11.12
410-191048-7	HD-MW-69-0/1-0	228097	4.11	1004881	7.62	732610	11.12
410-191048-8	HD-QC2-0/1-1	223924	4.14	991227	7.63	724692	11.13
410-191048-9	HD-Cole Steel MW-12-0/1-0	226745	4.14	988340	7.62	718419	11.12
410-191048-10	HD-MW-165-0/1-0	235181	4.12	1032488	7.62	752953	11.12
410-191048-11	HD-FOLK (RW-4)-0/1-0	235873	4.18	1010593	7.62	739517	11.13
410-191048-12	HD-MW-43D-0/1-0	227322	4.14	1026126	7.63	742747	11.12
410-191048-13	HD-MW-16S-0/1-0	215553	4.10	977740	7.63	705537	11.12
410-191048-14	HD-MW-82-0/1-0	215182	4.15	1015763	7.62	747581	11.13

TBAd10 = t-Butyl alcohol-d10 (IS)

FB = Fluorobenzene (IS)

CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1
Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-560875/3 Date Analyzed: 10/08/2024 20:49

Instrument ID: 9915 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): LC08X32.D Heated Purge: (Y/N) N

Calibration ID: 63834

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		462850	13.01				
UPPER LIMIT		925700	13.51				
LOWER LIMIT		231425	12.51				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-560875/4		465575	13.01				
MB 410-560875/6		464350	13.01				
410-191048-1	HD-MW-18S-0/1-0	443062	13.01				
410-191048-2	HD-MW-111-0/1-0	430236	13.01				
410-191048-3	HD-MW-18D-0/1-0	425938	13.01				
410-191048-3 MS	HD-MW-18D-0/1-0MS MS	472882	13.01				
410-191048-3 MSD	HD-MW-18D-0/1-0MSD MSD	465211	13.01				
410-191048-4	HD-GM-1D-0/1-0	430252	13.01				
410-191048-5	HD-MW-150-0/1-0	433280	13.01				
410-191048-6	HD-Cole D-0/1-0	432695	13.01				
410-191048-7	HD-MW-69-0/1-0	428307	13.01				
410-191048-8	HD-QC2-0/1-1	410340	13.01				
410-191048-9	HD-Cole Steel MW-12-0/1-0	427289	13.01				
410-191048-10	HD-MW-165-0/1-0	438893	13.01				
410-191048-11	HD-FOLK (RW-4)-0/1-0	433966	13.01				
410-191048-12	HD-MW-43D-0/1-0	434273	13.01				
410-191048-13	HD-MW-16S-0/1-0	408689	13.01				
410-191048-14	HD-MW-82-0/1-0	431792	13.01				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1
 Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-560989/6 Date Analyzed: 10/09/2024 10:03

Instrument ID: 9915 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): LC09X05.D Heated Purge: (Y/N) N

Calibration ID: 63834

	TBA _d 10		FB		CBZ _d 5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	267454	4.12	1239606	7.62	910510	11.13
UPPER LIMIT	534908	4.62	2479212	8.12	1821020	11.63
LOWER LIMIT	133727	3.62	619803	7.12	455255	10.63
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 410-560989/7		253812	4.13	1166218	7.63	839831 11.12
LCSD 410-560989/8		250575	4.12	1153176	7.62	834326 11.12
MB 410-560989/10		269876	4.16	1165104	7.63	823736 11.13
410-191048-15	HD-QC2-0/1-3	248149	4.16	1127446	7.63	820901 11.12
410-191048-16	HD-QC2-0/1-4	239208	4.13	1056635	7.62	765094 11.13
410-191048-17	HD-QC3-0/1-2	232242	4.12	1084604	7.62	777234 11.13
410-191048-18	HD-MW-110-0/1-0	219739	4.10	1038860	7.62	764603 11.13

TBA_d10 = t-Butyl alcohol-d₁₀ (IS)

FB = Fluorobenzene (IS)

CBZ_d5 = Chlorobenzene-d₅ (IS)

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1
Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-560989/6 Date Analyzed: 10/09/2024 10:03

Instrument ID: 9915 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): LC09X05.D Heated Purge: (Y/N) N

Calibration ID: 63834

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		496775	13.01				
UPPER LIMIT		993550	13.51				
LOWER LIMIT		248388	12.51				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-560989/7		457872	13.01				
LCSD 410-560989/8		472393	13.01				
MB 410-560989/10		472247	13.01				
410-191048-15	HD-QC2-0/1-3	475351	13.01				
410-191048-16	HD-QC2-0/1-4	447119	13.01				
410-191048-17	HD-QC3-0/1-2	444925	13.01				
410-191048-18	HD-MW-110-0/1-0	426967	13.01				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-MW-18S-0/1-0

Lab Sample ID: 410-191048-1

Matrix: Water

Lab File ID: LC08X41.D

Analysis Method: 8260D

Date Collected: 10/02/2024 08:55

Sample wt/vol: 5(mL)

Date Analyzed: 10/09/2024 00:11

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND	^c cn	1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND	^c cn	10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	8.0		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	Job No.: 410-191048-1
SDG No.:	
Client Sample ID: HD-MW-18S-0/1-0	Lab Sample ID: 410-191048-1
Matrix: Water	Lab File ID: LC08X41.D
Analysis Method: 8260D	Date Collected: 10/02/2024 08:55
Sample wt/vol: 5 (mL)	Date Analyzed: 10/09/2024 00:11
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: R-624SilMS 30m ID: 0.25 (mm)
Purge Volume: 5.0 (mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 560875	Units: ug/L
Preparation Batch No.:	Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	1.5		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X41.D
 Lims ID: 410-191048-A-1
 Client ID: HD-MW-18S-0/1-0
 Sample Type: Client
 Inject. Date: 09-Oct-2024 00:11:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-012
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 15:01:43 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 15:01:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.129				ND	7
7 Vinyl chloride	62		2.245				ND	U
9 Bromomethane	94		2.579				ND	
10 Chloroethane	64		2.641				ND	
18 1,1-Dichloroethene	96		3.464				ND	
19 Acetone	58		3.480				ND	
23 Carbon disulfide	76		3.756				ND	7
27 Methylene Chloride	84		4.100				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.090	4.139	-0.049	1	229471	250.0	
31 Methyl tert-butyl ether	73		4.499				ND	7
32 trans-1,2-Dichloroethene	96		4.505				ND	
36 1,1-Dichloroethane	63		5.171				ND	
41 2-Butanone (MEK)	43		5.988				ND	
42 cis-1,2-Dichloroethene	96	6.026	6.013	0.013	78	43863	7.96	
49 Chlorobromomethane	128		6.348				ND	
51 Chloroform	83		6.502				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.717	6.718	-0.001	93	258057	50.3	
53 1,1,1-Trichloroethane	97		6.737				ND	
55 Carbon tetrachloride	117		6.952				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.171	7.171	0.000	83	64689	52.1	
59 Benzene	78		7.216				ND	7
60 1,2-Dichloroethane	62		7.280				ND	7
* 63 Fluorobenzene (IS)	96	7.621	7.621	0.000	99	1023622	50.0	
67 Trichloroethene	95	8.110	8.103	0.007	77	8001	1.52	
70 1,2-Dichloropropane	63		8.431				ND	
76 Dichlorobromomethane	83		8.779				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.515				ND	7
\$ 82 Toluene-d8 (Surr)	98	9.656	9.653	0.003	94	961831	50.7	
90 Toluene	92		9.727				ND	7
95 trans-1,3-Dichloropropene	75		9.988				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X41.D

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166		10.290				ND	
121 2-Hexanone	43		10.415				ND	
123 Chlorodibromomethane	129		10.573				ND	
124 Ethylene Dibromide	107		10.682				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.122	11.123	0.000	85	749016	50.0	
128 Chlorobenzene	112		11.151				ND	7
131 1,1,1,2-Tetrachloroethane	131		11.229				ND	
132 Ethylbenzene	91		11.238				ND	
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	7
136 o-Xylene	106		11.685				ND	
137 Styrene	104		11.698				ND	
138 Bromoform	173		11.852				ND	7
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	336687	44.9	
145 1,1,2,2-Tetrachloroethane	83		12.229				ND	
* 161 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	94	443062	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 09-Oct-2024 15:01:44

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X41.D

Injection Date: 09-Oct-2024 00:11:30

Instrument ID: 9915

Operator ID: gaw91131

Lims ID: 410-191048-A-1

Lab Sample ID: 410-191048-1

Worklist Smp#: 12

Client ID: HD-MW-18S-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

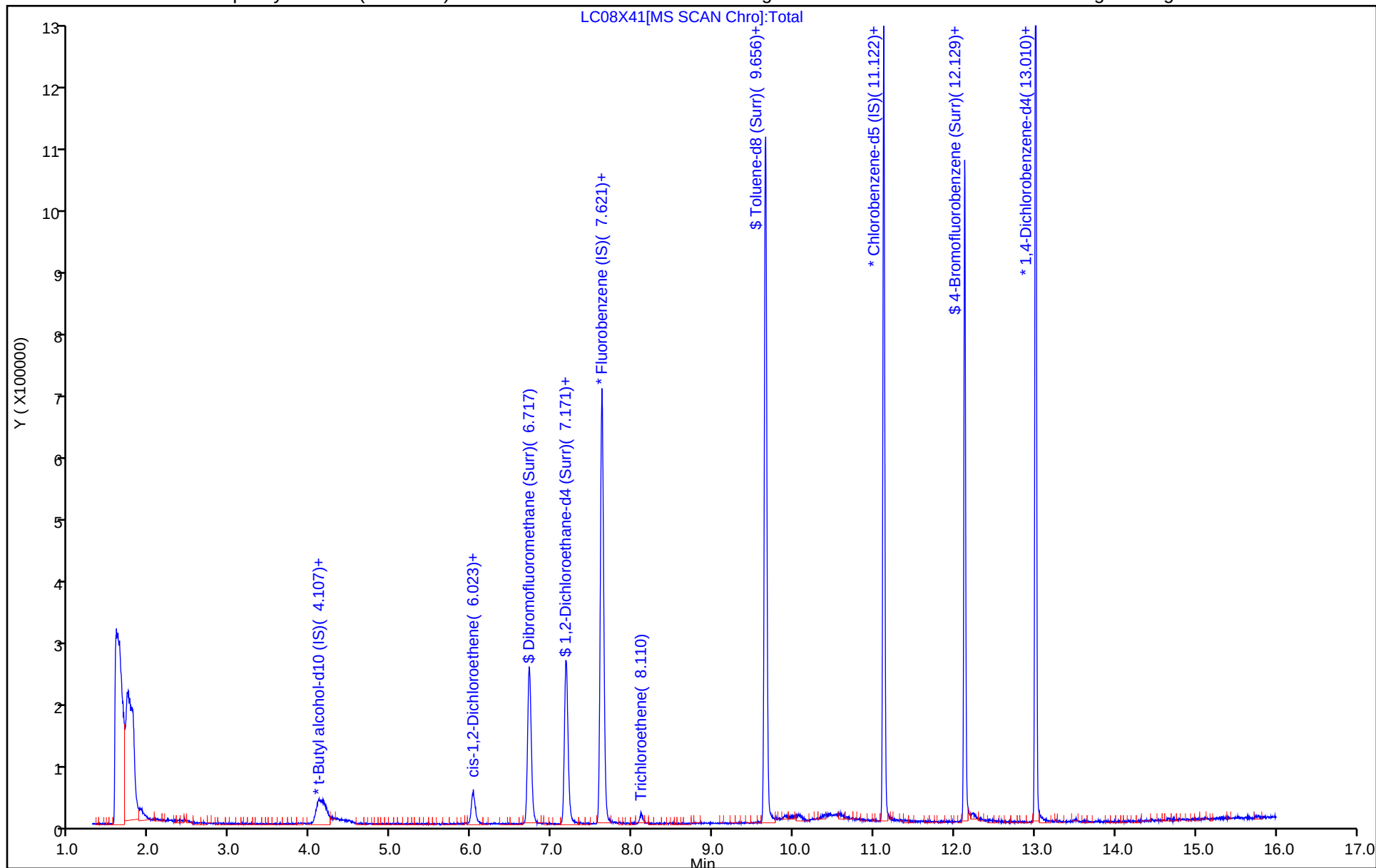
ALS Bottle#: 11

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X41.D
Lims ID: 410-191048-A-1
Client ID: HD-MW-18S-0/1-0
Sample Type: Client
Inject. Date: 09-Oct-2024 00:11:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-012
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 15:01:43 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 15:01:43

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	50.3	100.54
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	52.1	104.27
\$ 82 Toluene-d8 (Surr)	50.0	50.7	101.38
\$ 142 4-Bromofluorobenzene (Surr)	50.0	44.9	89.81

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X41.D

Injection Date: 09-Oct-2024 00:11:30

Instrument ID: 9915

Lims ID: 410-191048-A-1

Lab Sample ID: 410-191048-1

Client ID: HD-MW-18S-0/1-0

Operator ID: gaw91131

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 5.000 mL

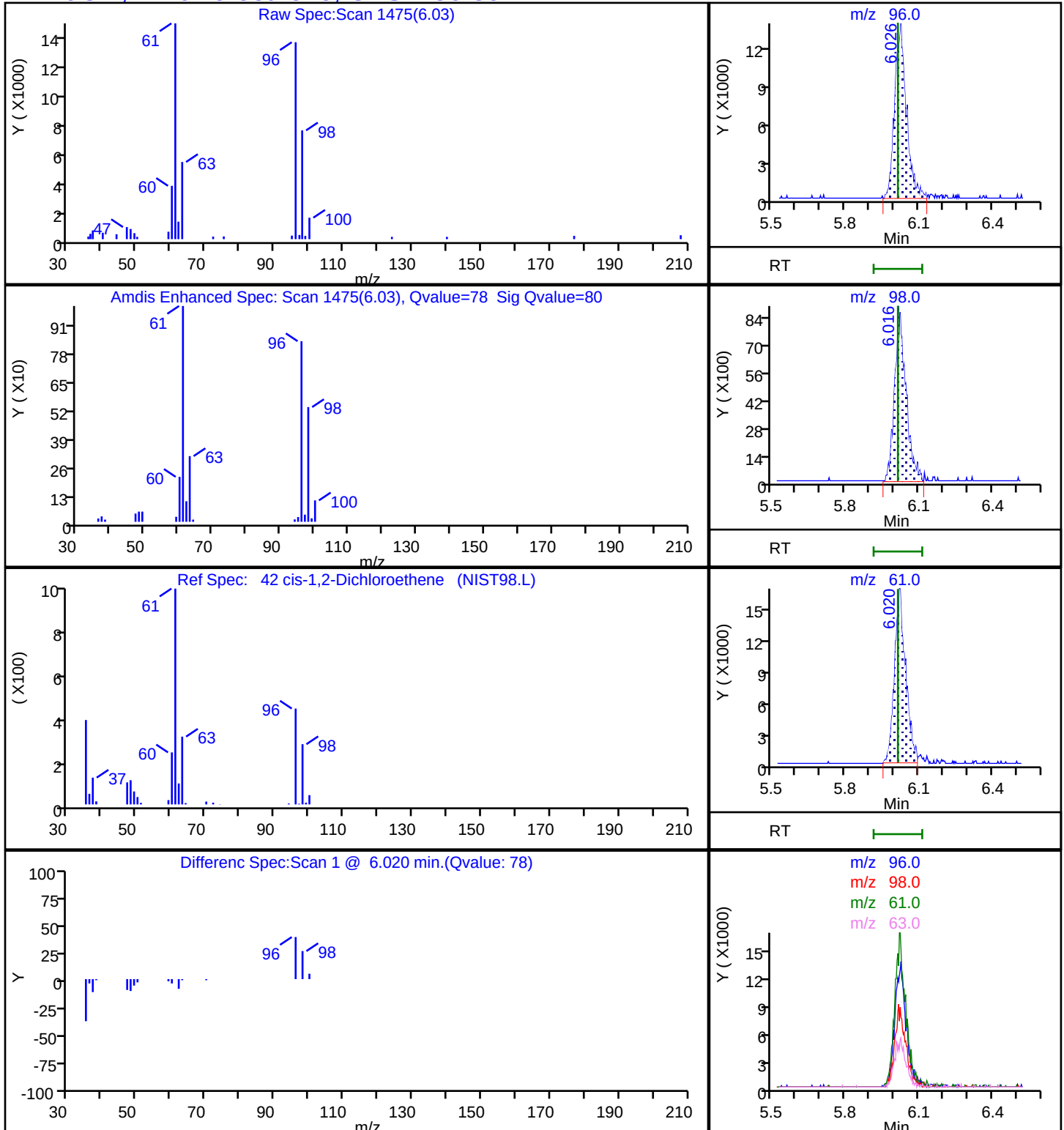
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) x 30 m

MS Quad

42 cis-1,2-Dichloroethene, CAS: 156-59-2

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X41.D

Injection Date: 09-Oct-2024 00:11:30

Instrument ID: 9915

Lims ID: 410-191048-A-1

Lab Sample ID: 410-191048-1

Client ID: HD-MW-18S-0/1-0

Operator ID: gaw91131

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 5.000 mL

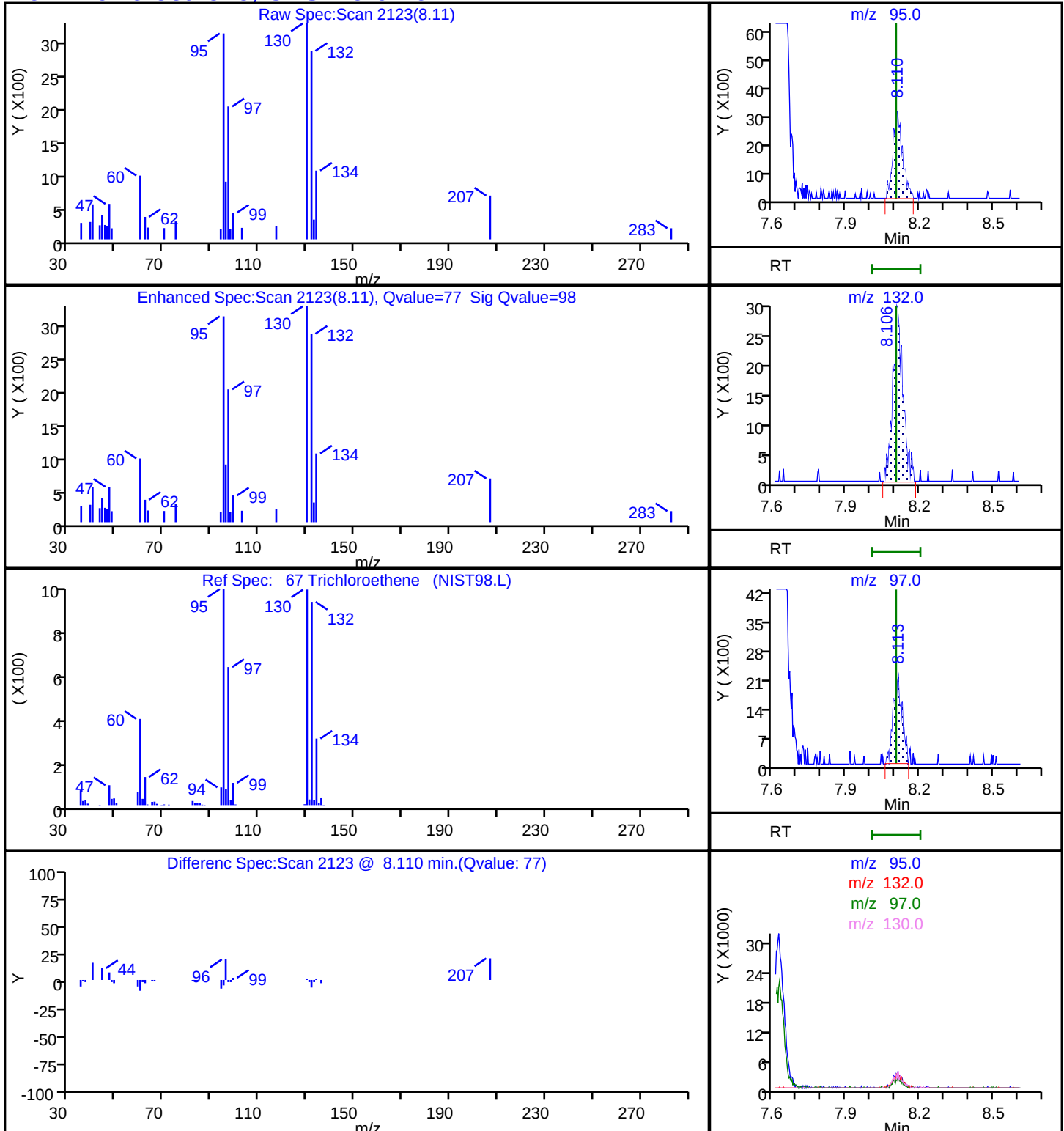
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) x 30 m

MS Quad

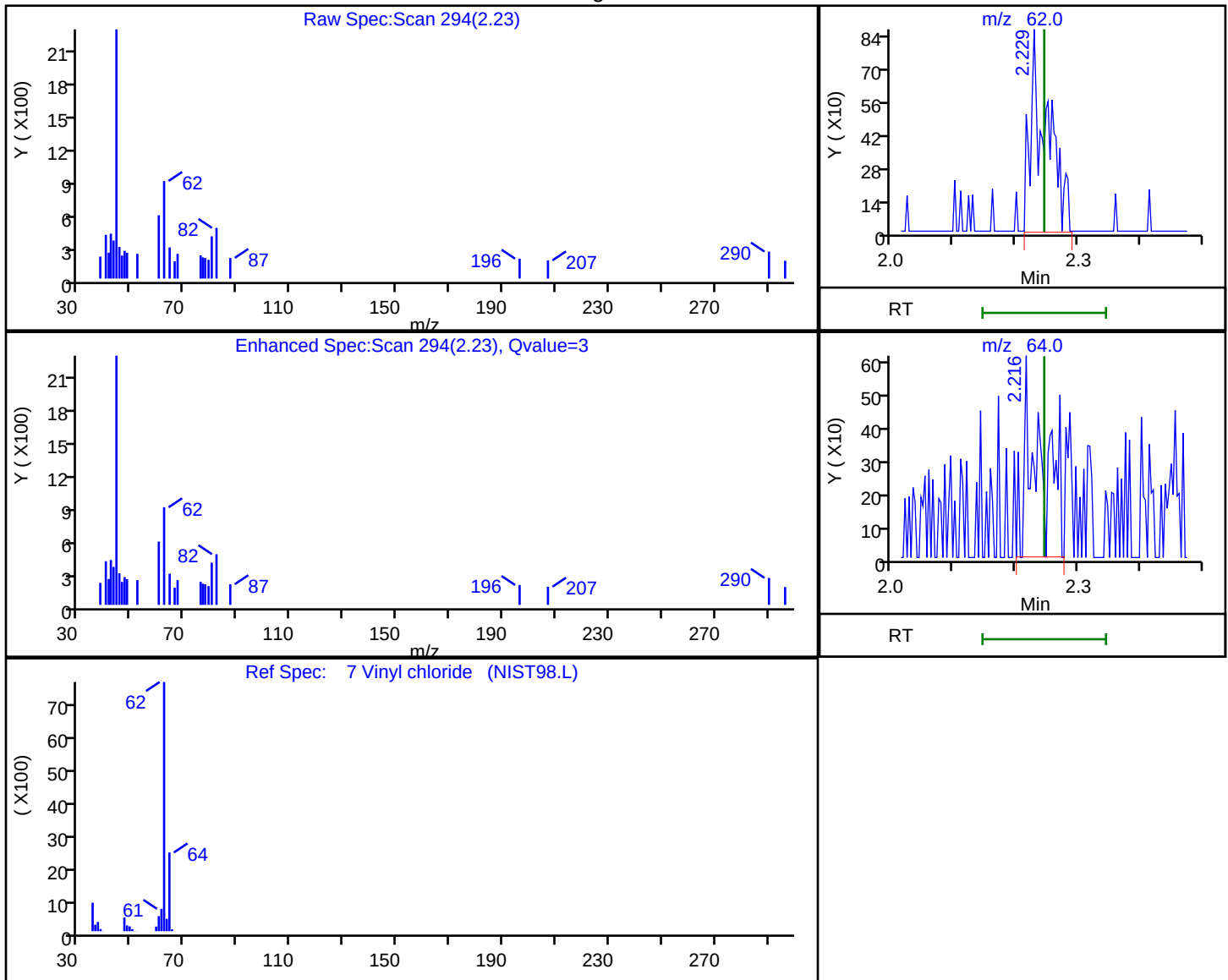
67 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X41.D
Injection Date: 09-Oct-2024 00:11:30 Instrument ID: 9915
Lims ID: 410-191048-A-1 Lab Sample ID: 410-191048-1
Client ID: HD-MW-18S-0/1-0
Operator ID: gaw91131 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

7 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
2.23	62.00	1631	0.167335
2.22	64.00	1173	

Reviewer: FQ4L, 09-Oct-2024 15:01:24 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-MW-111-0/1-0

Lab Sample ID: 410-191048-2

Matrix: Water

Lab File ID: LC08X42.D

Analysis Method: 8260D

Date Collected: 10/02/2024 13:40

Sample wt/vol: 5(mL)

Date Analyzed: 10/09/2024 00:33

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	0.47	J ^c cn	1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND	^c cn	10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	6.9		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-MW-111-0/1-0 Lab Sample ID: 410-191048-2

Matrix: Water Lab File ID: LC08X42.D

Analysis Method: 8260D Date Collected: 10/02/2024 13:40

Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2024 00:33

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 560875 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	ND		1.0	0.30
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	0.74	J	1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X42.D
 Lims ID: 410-191048-A-2
 Client ID: HD-MW-111-0/1-0
 Sample Type: Client
 Inject. Date: 09-Oct-2024 00:33:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-013
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 13:49:37 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1603

First Level Reviewer: UKEK

Date: 09-Oct-2024 13:49:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.129				ND	7
7 Vinyl chloride	62		2.245				ND	
9 Bromomethane	94		2.579				ND	
10 Chloroethane	64		2.641				ND	7
18 1,1-Dichloroethene	96	3.470	3.464	0.006	10	2493	0.4692	M
19 Acetone	58		3.480				ND	
23 Carbon disulfide	76		3.756				ND	7
27 Methylene Chloride	84		4.100				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.148	4.139	0.009	1	227092	250.0	
31 Methyl tert-butyl ether	73		4.499				ND	7
32 trans-1,2-Dichloroethene	96		4.505				ND	
36 1,1-Dichloroethane	63		5.171				ND	7
41 2-Butanone (MEK)	43		5.988				ND	7
42 cis-1,2-Dichloroethene	96	6.026	6.013	0.013	78	37703	6.92	M
49 Chlorobromomethane	128		6.348				ND	
51 Chloroform	83		6.502				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.724	6.718	0.006	93	265265	52.3	
53 1,1,1-Trichloroethane	97		6.737				ND	7
55 Carbon tetrachloride	117		6.952				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.174	7.171	0.003	83	64713	52.7	
59 Benzene	78		7.216				ND	7
60 1,2-Dichloroethane	62		7.280				ND	7
* 63 Fluorobenzene (IS)	96	7.624	7.621	0.003	99	1012183	50.0	
67 Trichloroethene	95	8.126	8.103	0.023	90	3862	0.7415	M
70 1,2-Dichloropropane	63		8.431				ND	
76 Dichlorobromomethane	83		8.779				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.515				ND	7
\$ 82 Toluene-d8 (Surr)	98	9.653	9.653	0.000	94	953297	51.2	
90 Toluene	92		9.727				ND	7
95 trans-1,3-Dichloropropene	75		9.988				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166		10.290				ND	7
121 2-Hexanone	43		10.415				ND	7
123 Chlorodibromomethane	129		10.573				ND	
124 Ethylene Dibromide	107		10.682				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.122	11.123	0.000	85	735511	50.0	
128 Chlorobenzene	112		11.151				ND	
131 1,1,1,2-Tetrachloroethane	131		11.229				ND	
132 Ethylbenzene	91		11.238				ND	
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	
136 o-Xylene	106		11.685				ND	
137 Styrene	104		11.698				ND	
138 Bromoform	173		11.852				ND	7
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	328727	44.6	
145 1,1,2,2-Tetrachloroethane	83		12.229				ND	7
* 161 1,4-Dichlorobenzene-d4	152	13.010	13.013	-0.003	95	430236	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 09-Oct-2024 13:50:02

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X42.D

Injection Date: 09-Oct-2024 00:33:30

Instrument ID: 9915

Operator ID: gaw91131

Lims ID: 410-191048-A-2

Lab Sample ID: 410-191048-2

Worklist Smp#: 13

Client ID: HD-MW-111-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

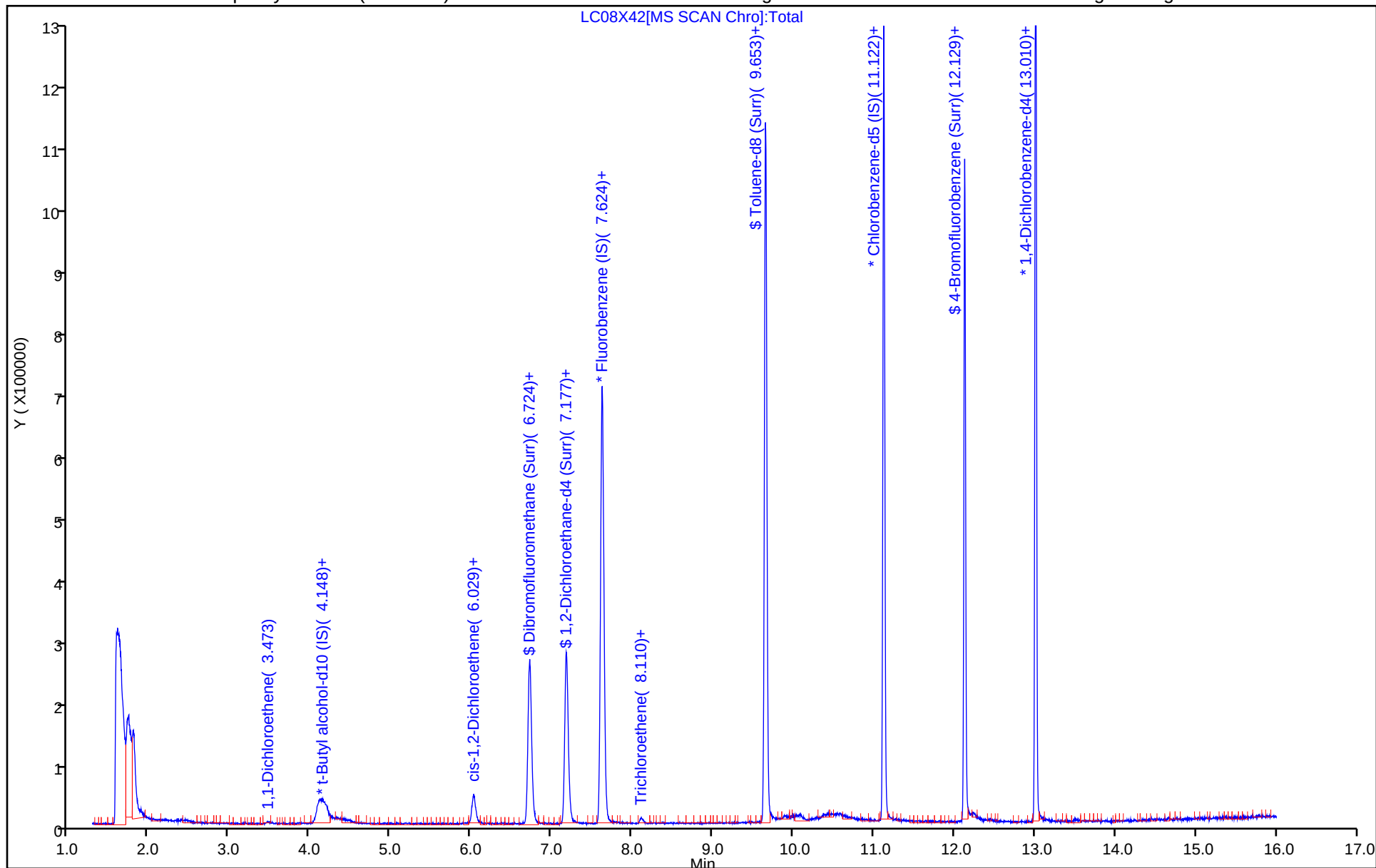
ALS Bottle#: 12

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X42.D
Lims ID: 410-191048-A-2
Client ID: HD-MW-111-0/1-0
Sample Type: Client
Inject. Date: 09-Oct-2024 00:33:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-013
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 13:49:37 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1603

First Level Reviewer: UKEK

Date: 09-Oct-2024 13:49:17

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	52.3	104.51
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	52.7	105.49
\$ 82 Toluene-d8 (Surr)	50.0	51.2	102.33
\$ 142 4-Bromofluorobenzene (Surr)	50.0	44.6	89.29

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X42.D

Injection Date: 09-Oct-2024 00:33:30

Instrument ID: 9915

Lims ID: 410-191048-A-2

Lab Sample ID: 410-191048-2

Client ID: HD-MW-111-0/1-0

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

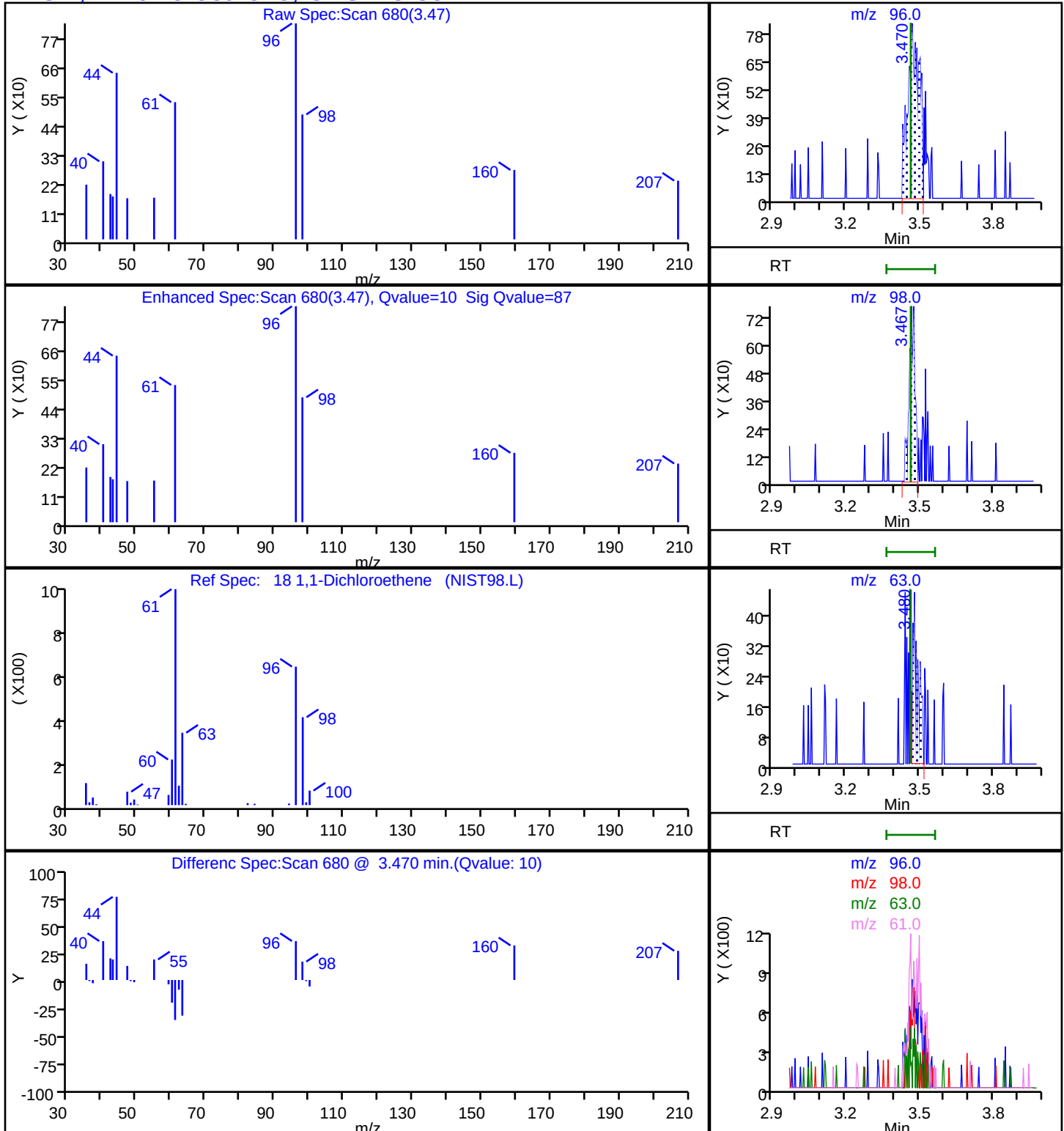
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) x 30 m

MS Quad

18 1,1-Dichloroethene, CAS: 75-35-4

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X42.D

Injection Date: 09-Oct-2024 00:33:30

Instrument ID: 9915

Lims ID: 410-191048-A-2

Lab Sample ID: 410-191048-2

Client ID: HD-MW-111-0/1-0

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

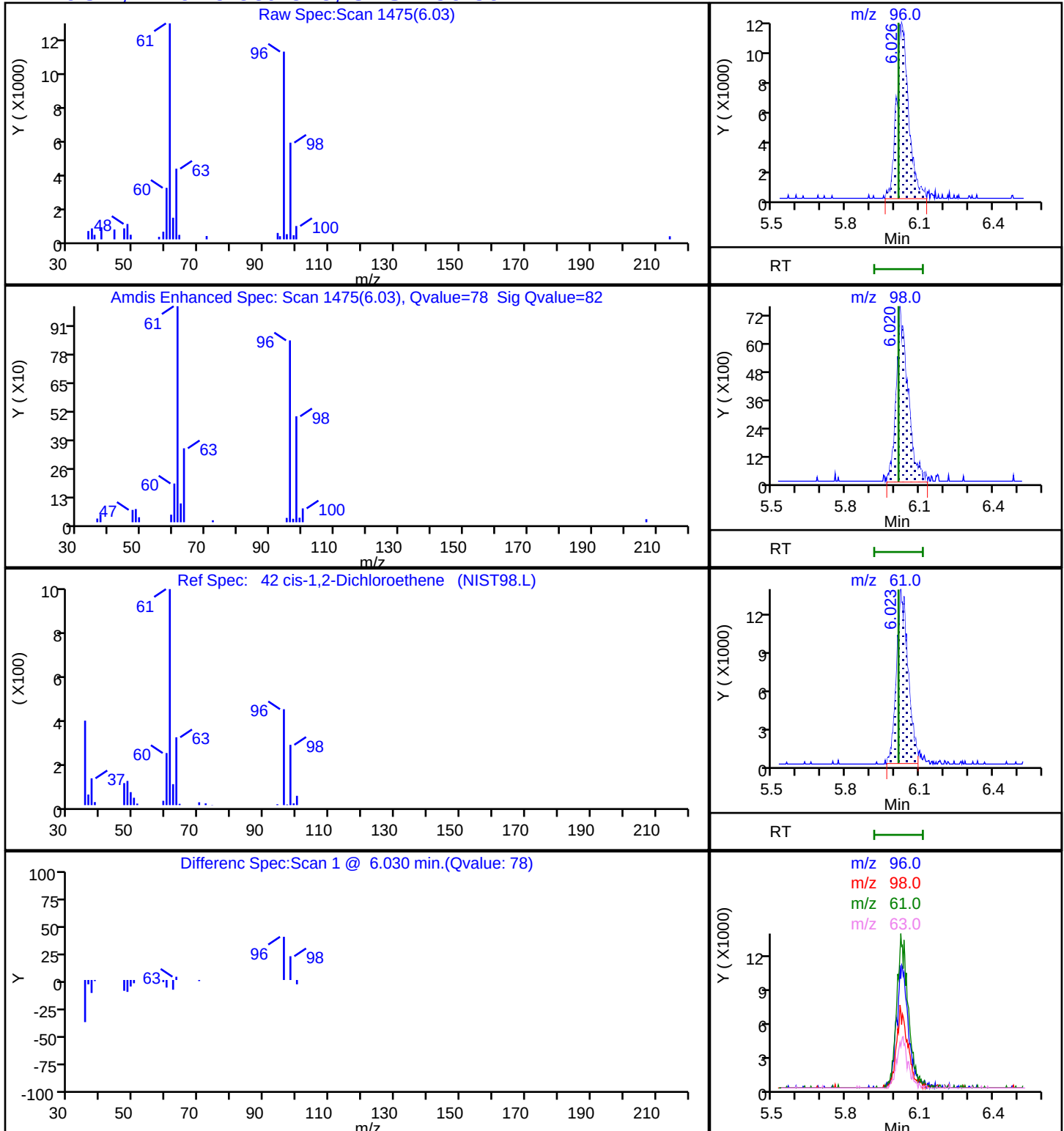
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) x 30 m

MS Quad

42 cis-1,2-Dichloroethene, CAS: 156-59-2

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X42.D

Injection Date: 09-Oct-2024 00:33:30

Instrument ID: 9915

Lims ID: 410-191048-A-2

Lab Sample ID: 410-191048-2

Client ID: HD-MW-111-0/1-0

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

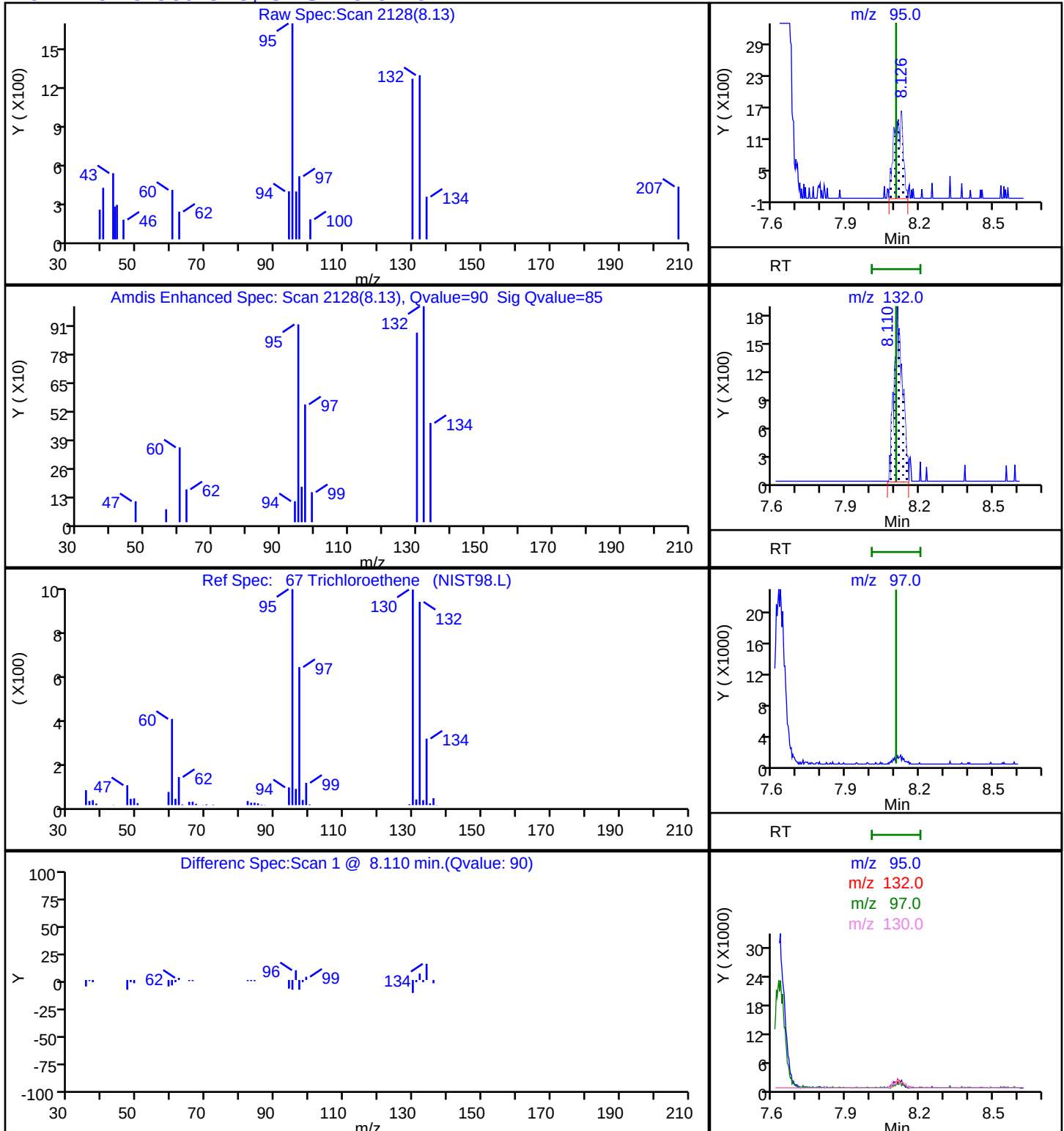
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) x 100 m

MS Quad

67 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

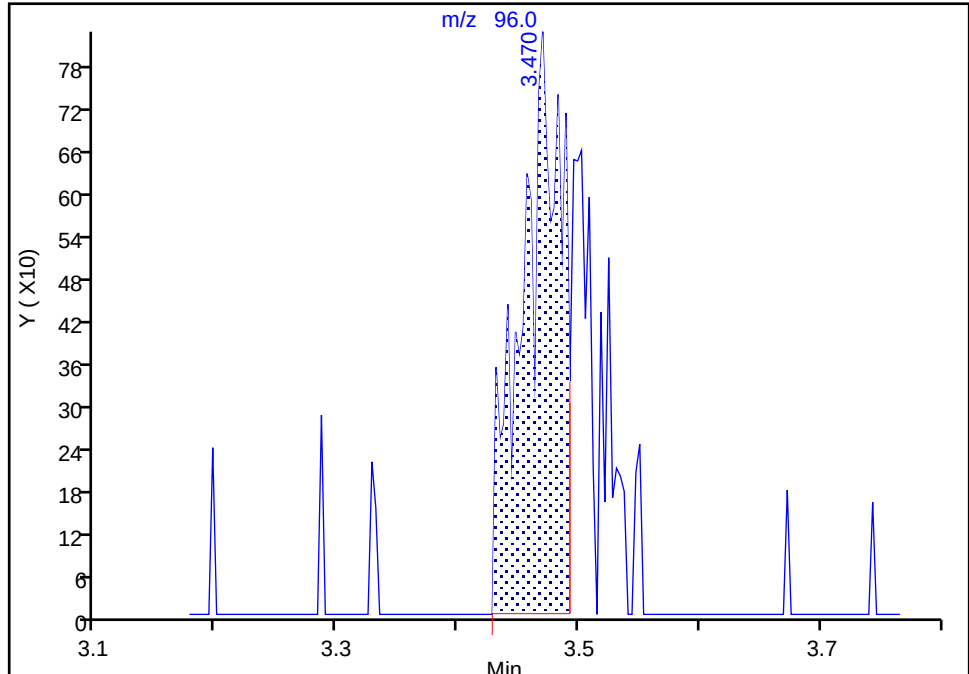
Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X42.D
Injection Date: 09-Oct-2024 00:33:30 Instrument ID: 9915
Lims ID: 410-191048-A-2 Lab Sample ID: 410-191048-2
Client ID: HD-MW-111-0/1-0
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

18 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

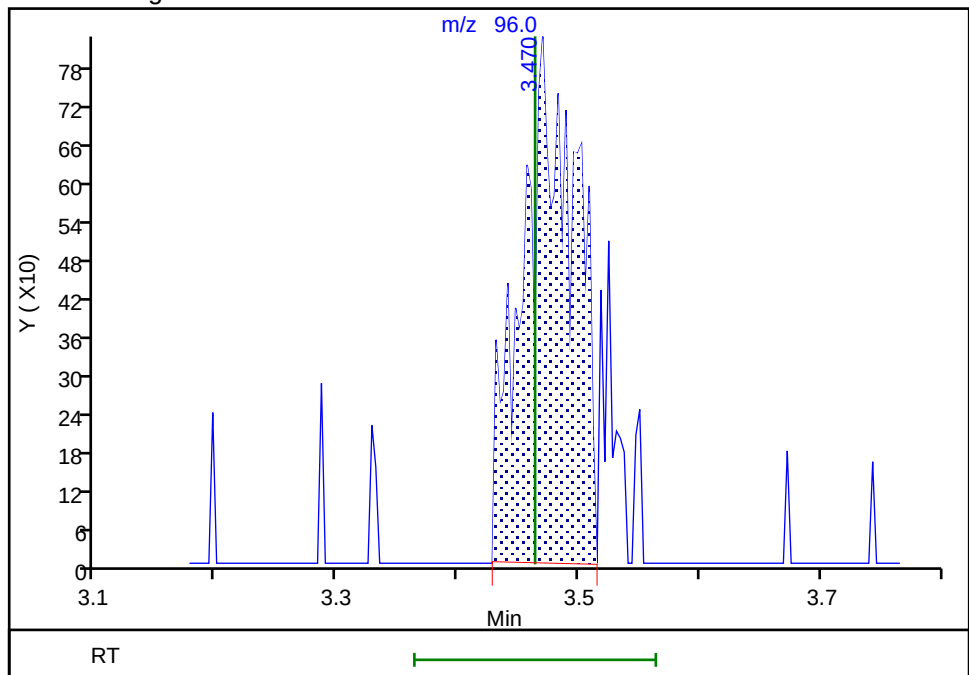
RT: 3.47
Area: 1886
Amount: 0.354969
Amount Units: ug/l

Processing Integration Results



RT: 3.47
Area: 2493
Amount: 0.469214
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 09-Oct-2024 14:58:29 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

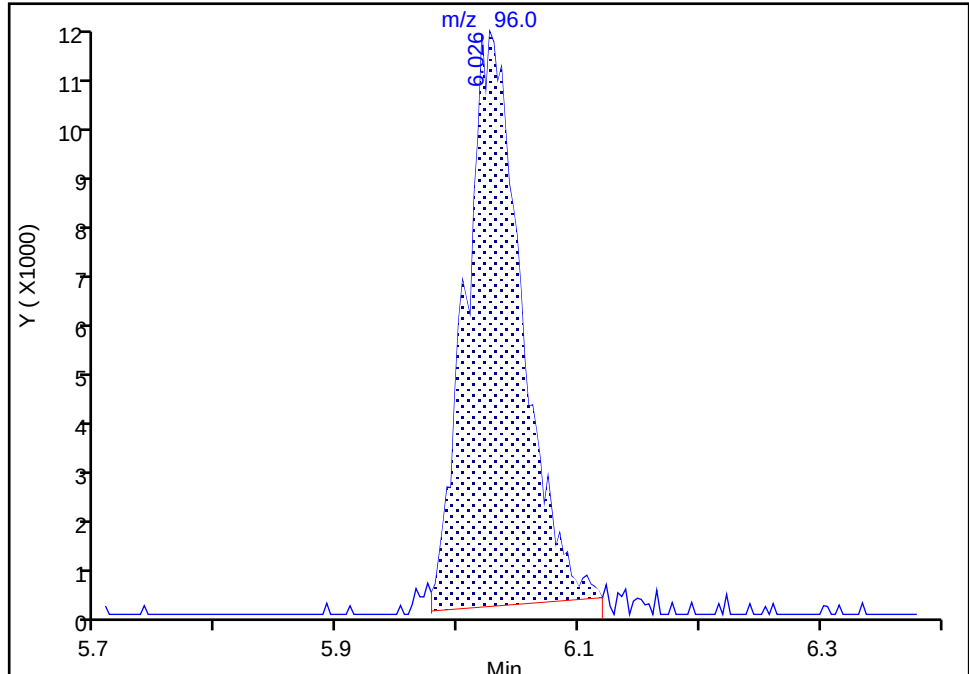
Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X42.D
Injection Date: 09-Oct-2024 00:33:30 Instrument ID: 9915
Lims ID: 410-191048-A-2 Lab Sample ID: 410-191048-2
Client ID: HD-MW-111-0/1-0
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

42 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

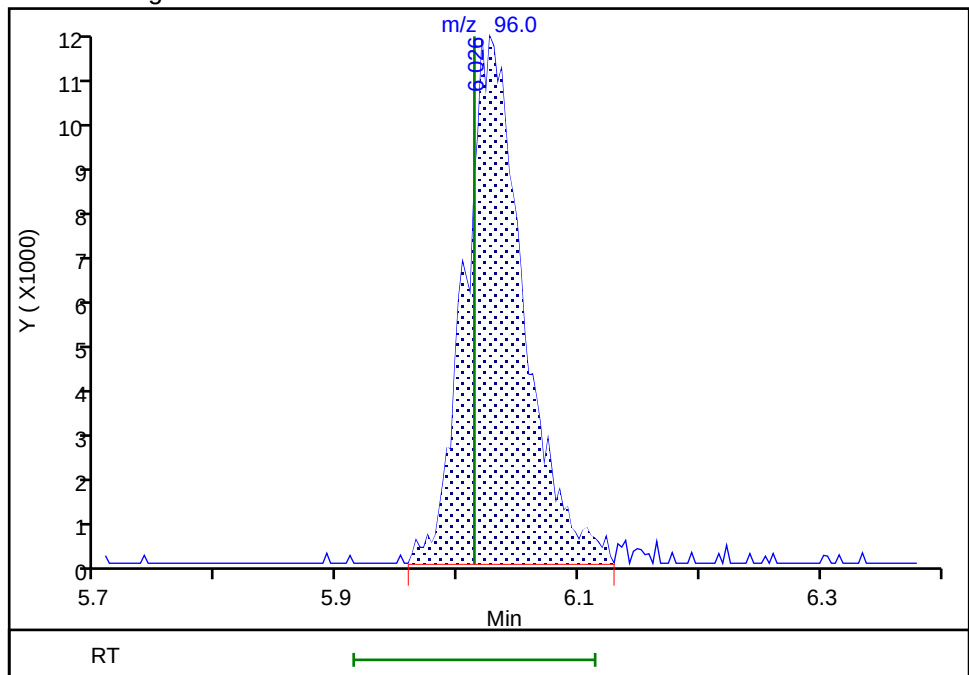
RT: 6.03
Area: 35536
Amount: 6.518096
Amount Units: ug/l

Processing Integration Results



RT: 6.03
Area: 37703
Amount: 6.915572
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 09-Oct-2024 13:49:07 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

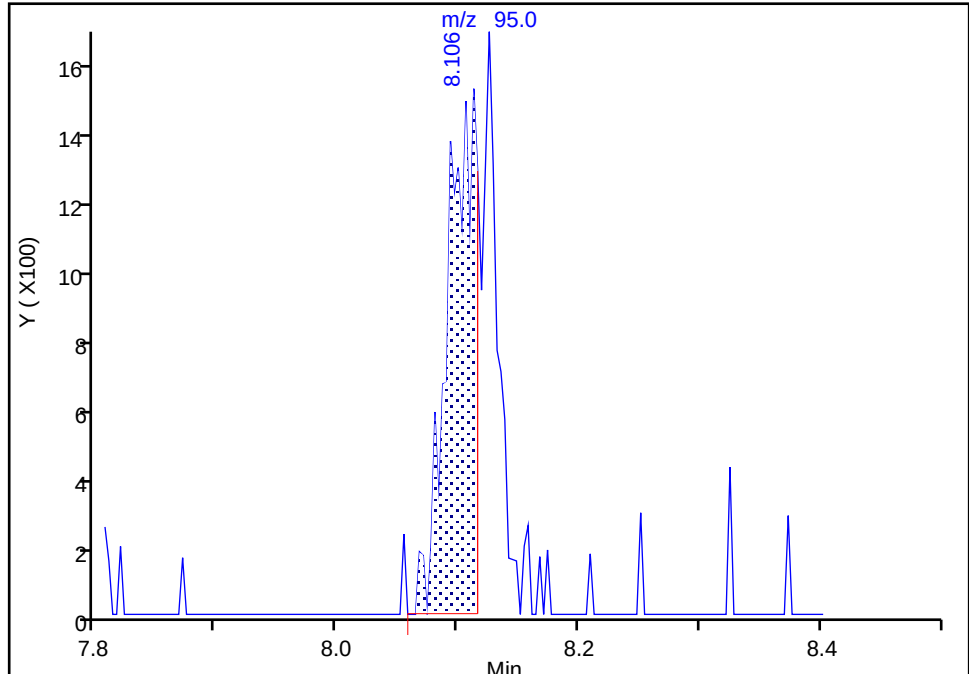
Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X42.D
Injection Date: 09-Oct-2024 00:33:30 Instrument ID: 9915
Lims ID: 410-191048-A-2 Lab Sample ID: 410-191048-2
Client ID: HD-MW-111-0/1-0
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

67 Trichloroethene, CAS: 79-01-6

Signal: 1

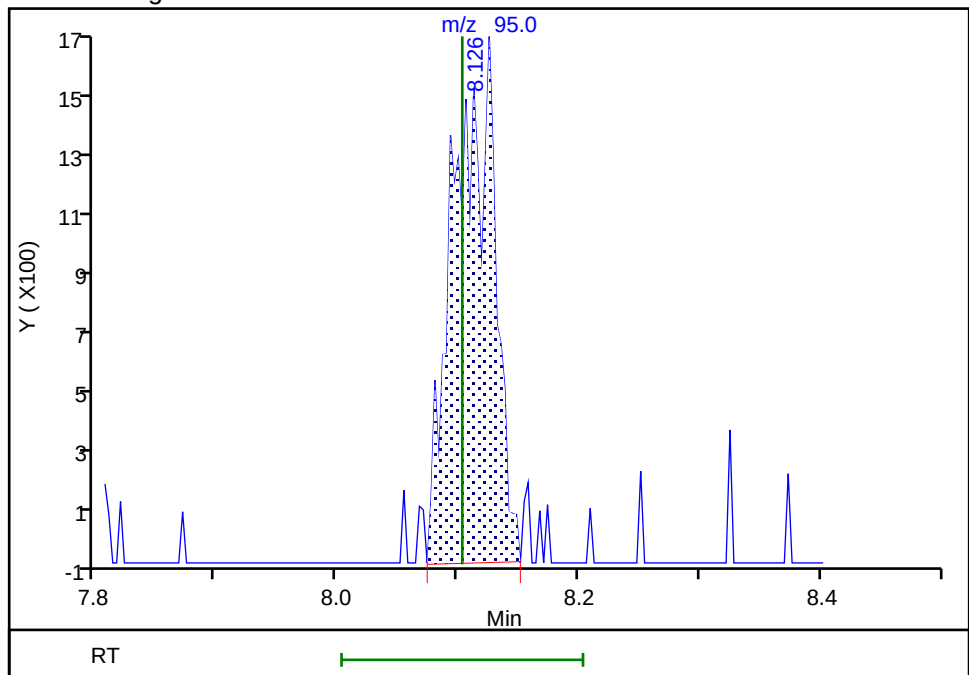
RT: 8.11
Area: 2470
Amount: 0.474265
Amount Units: ug/l

Processing Integration Results



RT: 8.13
Area: 3862
Amount: 0.741543
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 09-Oct-2024 14:59:11 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-MW-18D-0/1-0

Lab Sample ID: 410-191048-3

Matrix: Water

Lab File ID: LC08X43.D

Analysis Method: 8260D

Date Collected: 10/02/2024 14:52

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 00:56

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND	^c cn	1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND	^c cn	10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	7.3		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	Job No.: 410-191048-1
SDG No.:	
Client Sample ID: HD-MW-18D-0/1-0	Lab Sample ID: 410-191048-3
Matrix: Water	Lab File ID: LC08X43.D
Analysis Method: 8260D	Date Collected: 10/02/2024 14:52
Sample wt/vol: 5 (mL)	Date Analyzed: 10/09/2024 00:56
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: R-624SilMS 30m ID: 0.25 (mm)
Purge Volume: 5.0 (mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 560875	Units: ug/L
Preparation Batch No.:	Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	1.3		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X43.D
 Lims ID: 410-191048-A-3
 Client ID: HD-MW-18D-0/1-0
 Sample Type: Client
 Inject. Date: 09-Oct-2024 00:56:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-014
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 14:56:01 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 14:56:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
T 1 Dichloro-1,1,2,2-tetrafluoroethane	85	1.692	1.689	0.003	1	229	0.0113	
2 Chlorotrifluoroethene	116		1.904				ND	
3 Dichlorodifluoromethane	85		1.933				ND	
4 Chlorodifluoromethane	51		1.959				ND	7
5 Chloromethane	50		2.129				ND	
6 Butadiene	39		2.232				ND	7
7 Vinyl chloride	62		2.245				ND	U
8 2-Chloro-1,1,1-Trifluoroethane	118		2.319				ND	
9 Bromomethane	94		2.579				ND	7
10 Chloroethane	64		2.641				ND	
11 Dichlorofluoromethane	67		2.882				ND	7
12 Trichlorofluoromethane	101		2.952				ND	
13 Pentane	43		2.959				ND	7
14 Ethanol	45		3.078				ND	
15 Ethyl ether	59		3.168				ND	
16 1,2-Dichloro-1,1,2-trifluoroethane	67		3.264				ND	
17 Acrolein	56		3.316				ND	
18 1,1-Dichloroethene	96		3.464				ND	
19 Acetone	58		3.480				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.515				ND	
21 Isopropyl alcohol	45		3.653				ND	
22 Iodomethane	142		3.653				ND	
23 Carbon disulfide	76		3.756				ND	7
24 Acetonitrile	41		3.849				ND	7
25 Methyl acetate	43		3.898				ND	7
26 3-Chloro-1-propene	41		3.920				ND	
27 Methylene Chloride	84		4.100				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.120	4.139	-0.019	1	220297	250.0	
29 2-Methyl-2-propanol	59		4.235				ND	
30 Acrylonitrile	53		4.419				ND	
31 Methyl tert-butyl ether	73		4.499				ND	7
32 trans-1,2-Dichloroethene	96		4.505				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
T 33 Acetonitrile TIC	41	4.647	4.631	0.016	1	78	0.003843	
35 Hexane	57		4.956				ND	
36 1,1-Dichloroethane	63		5.171				ND	
37 Vinyl acetate	43		5.177				ND	
38 Isopropyl ether	45		5.239				ND	
39 2-Chloro-1,3-butadiene	53		5.296				ND	7
40 Tert-butyl ethyl ether	59		5.782				ND	7
41 2-Butanone (MEK)	43		5.988				ND	7
42 cis-1,2-Dichloroethene	96	6.036	6.013	0.023	79	40021	7.32	
43 2,2-Dichloropropane	77		6.042				ND	
45 Methyl acrylate	55		6.071				ND	
44 Ethyl acetate	43		6.071				ND	7
46 Propionitrile	54		6.074				ND	
S 47 1,2-Dichloroethene, Total	100				0		7.32	
48 Methacrylonitrile	67		6.287				ND	
49 Chlorobromomethane	128		6.348				ND	
50 Tetrahydrofuran	71		6.367				ND	
51 Chloroform	83		6.502				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.730	6.718	0.012	92	257558	50.6	
53 1,1,1-Trichloroethane	97		6.737				ND	
54 Cyclohexane	56		6.846				ND	
56 1,1-Dichloropropene	75		6.952				ND	
55 Carbon tetrachloride	117		6.952				ND	
57 Isobutyl alcohol	41		7.113				ND	7
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.171	0.006	83	64842	52.7	
59 Benzene	78		7.216				ND	7
60 1,2-Dichloroethane	62		7.280				ND	
61 Isopropyl acetate	43		7.303				ND	7
62 Tert-amyl methyl ether	73		7.412				ND	
* 63 Fluorobenzene (IS)	96	7.624	7.621	0.003	99	1014871	50.0	
64 n-Heptane	43		7.647				ND	7
65 t-Amyl alcohol	73	7.698	7.746	-0.048	1	34	NC	
66 n-Butanol	56		8.007				ND	
67 Trichloroethene	95	8.116	8.103	0.013	95	6584	1.26	
68 Ethyl acrylate	55		8.158				ND	
69 Methylcyclohexane	83		8.418				ND	
70 1,2-Dichloropropane	63		8.431				ND	
71 2-ethoxy-2-methyl butane	87		8.447				ND	
72 Methyl methacrylate	69		8.528				ND	
73 1,4-Dioxane	88		8.534				ND	
74 Dibromomethane	93		8.541				ND	
75 n-Propyl acetate	61		8.605				ND	
76 Dichlorobromomethane	83		8.779				ND	7
77 2-Nitropropane	41		9.049				ND	7
78 2-Chloroethyl vinyl ether	63		9.152				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	7
80 4-Methyl-2-pentanone (MIBK)	43		9.515				ND	
T 81 Freon 115 TIC	85	9.650	9.557	0.093	1	82	0.004040	
\$ 82 Toluene-d8 (Surr)	98	9.653	9.653	0.000	93	942521	50.8	
T 83 Vinyl Fluoride TIC	46	9.714	9.688	0.026	4	96	0.004730	
T 84 Epichlorohydrin TIC	57	9.676	9.692	-0.016	13	43	0.002118	
T 85 1,1,2-Trifluoroethane TIC	51	9.685	9.701	-0.016	16	75	0.003695	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
T 86 1-Bromo-2-chloroethane TIC	63	9.682	9.708	-0.026	1	41	0.002020	
T 87 1,1,1-Trifluoro-2,2-dichloroethane TIC	63	9.682	9.708	-0.026	1	144	0.007094	
T 88 1-Chloro-1,1-difluoroethane TIC	65	9.659	9.724	-0.065	3	304	0.0150	
T 89 Chloroacetaldehyde TIC	49	9.695	9.727	-0.032	1	103	0.005075	
90 Toluene	92		9.727				ND	7
T 91 Diethoxymethane TIC	59	9.672	9.749	-0.077	9	105	0.005173	
T 92 Propionaldehyde TIC	58	9.875	9.772	0.103	1	44	0.002168	
T 93 Bromoethane TIC	108	10.425	9.891	0.534	1	79	0.003892	
T 94 n-Butyl acrylate TIC	55	9.872	9.920	-0.048	1	47	0.002316	
95 trans-1,3-Dichloropropene	75		9.988				ND	7
T 99 1,2-Dichlorofluoroethane TIC	81	9.946	10.000	-0.054	1	105	0.005173	
T 100 tert-amyl alcohol TIC	59	9.975	10.000	-0.025	1	90	0.004434	
T 104 Ethyl Acetate TIC	43		10.000				ND	
T 98 Propanol TIC	57		10.000				ND	
T 97 Fluoromethane TIC	34		10.000				ND	
T 96 1-Chlorobutane TIC	56	9.833	10.000	-0.167	1	124	0.006109	
T 110 Propene oxide TIC	58	9.920	10.000	-0.080	1	29	0.001429	
T 102 Propane TIC	43		10.000				ND	
T 101 Nitrobenzene TIC	1		10.000				ND	
T 106 Ethylene oxide TIC	43		10.000				ND	
T 107 2,3-Dichloro-1,3-butadiene TIC	51		10.000				ND	
T 108 Allyl Alcohol TIC	57		10.000				ND	
T 109 Isooctane TIC	57		10.000				ND	
T 236 Chlorotrifluoromethane TIC	50	9.923	10.000	-0.077	1	96	0.004730	
T 112 n-Nonane TIC	43	9.650	10.000	-0.350	32	1016	0.0501	
T 111 Chlorofluoromethane TIC	68	9.717	10.000	-0.283	1	169	0.008326	
T 105 Ethyl acrylate TIC	55	10.023	10.000	0.023	1	60	0.002956	
T 103 Tetranitromethane TIC	46	9.984	10.000	-0.016	1	83	0.004089	
T 113 2,3,4-Trichlorobutene TIC	109	11.113	10.055	1.058	0	47	0.002316	
114 Ethyl methacrylate	69		10.055				ND	
S 115 1,3-Dichloropropene, Total	100		10.060				ND	7
T 116 1,1-Dichloro-1-fluoroethane TIC	81		10.116				ND	
117 1,1,2-Trichloroethane	97		10.193				ND	7
118 Tetrachloroethene	166		10.290				ND	
119 1,3-Dichloropropane	76		10.357				ND	
120 3,4-Dichloro-1-butene	75		10.399				ND	7
121 2-Hexanone	43		10.415				ND	7
122 n-Butyl acetate	43		10.540				ND	
123 Chlorodibromomethane	129		10.573				ND	
124 Ethylene Dibromide	107		10.682				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.126	11.123	0.004	85	731712	50.0	a
T 126 1,3-Dichlorobutene-2(total) TIC	89	11.126	11.135	-0.009	12	3581	0.1764	
127 1-Chlorohexane	91		11.135				ND	7
T 129 Vinyl acetate (TIC)	43	11.135	11.151	-0.016	3	225	0.0111	
128 Chlorobenzene	112		11.151				ND	7
T 130 Hexachloroethane TIC	117	11.126	11.158	-0.032	2	726757	35.8	
131 1,1,1,2-Tetrachloroethane	131		11.229				ND	
132 Ethylbenzene	91		11.238				ND	
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	
135 n-Butyl acrylate	55		11.663				ND	
136 o-Xylene	106		11.685				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
137 Styrene	104		11.698				ND	
138 Bromoform	173		11.852				ND	7
139 Isopropylbenzene	105		11.987				ND	
140 cis-1,4-Dichloro-2-butene	88		12.029				ND	
141 Cyclohexanone	55		12.061				ND	7
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	326892	44.6	
T 143 divinyl benzene TIC	131	12.142	12.155	-0.013	6	129	0.006355	
T 144 4-Ethyltoluene TIC	105	12.135	12.155	-0.020	15	175	0.008622	
145 1,1,2,2-Tetrachloroethane	83		12.229				ND	7
146 Bromobenzene	156		12.245				ND	
147 trans-1,4-Dichloro-2-butene	53		12.254				ND	7
148 1,2,3-Trichloropropane	110		12.274				ND	7
149 N-Propylbenzene	91		12.315				ND	7
150 2-Chlorotoluene	126		12.389				ND	
151 1,3,5-Trimethylbenzene	105		12.454				ND	
152 4-Chlorotoluene	126		12.483				ND	
153 2,3,4-Trichlorobutene	109		12.569				ND	
154 tert-Butylbenzene	134		12.695				ND	
155 Pentachloroethane	167		12.727				ND	
156 1,2,4-Trimethylbenzene	105		12.737				ND	7
157 sec-Butylbenzene	105		12.859				ND	7
158 1,3-Dichlorobenzene	146		12.955				ND	
159 4-Isopropyltoluene	119		12.965				ND	7
T 160 1,1,1-Trichloro-2,2,2-trifluoroethane	151	13.013	13.010	0.003	22	48520	2.39	
* 161 1,4-Dichlorobenzene-d4	152	13.010	13.013	-0.003	95	425938	50.0	
162 1,4-Dichlorobenzene	146		13.029				ND	7
163 1,2,3-Trimethylbenzene	105		13.039				ND	7
164 Benzyl chloride	91		13.106				ND	7
165 1,3-Diethylbenzene	119		13.167				ND	
166 p-Diethylbenzene	119		13.238				ND	
167 n-Butylbenzene	92		13.257				ND	
168 1,2-Dichlorobenzene	146		13.286				ND	
169 o-diethylbenzene	119		13.309				ND	
170 Hexachloroethane	201		13.580				ND	
171 1,2-Dibromo-3-Chloropropane	75		13.827				ND	7
172 1,3,5-Trichlorobenzene	180		13.958				ND	
173 1,2,4-Trichlorobenzene	180		14.380				ND	7
174 2-Ethylhexyl acrylate	55		14.389				ND	U
175 Hexachlorobutadiene	225		14.466				ND	
176 Naphthalene	128		14.560				ND	7
177 1,2,3-Trichlorobenzene	180		14.704				ND	7
178 2-Methylnaphthalene	142		15.318				ND	7
179 C4-C10	1		0.000				ND	
S 180 Total Diethylbenzene	1		0.000				ND	7
181 C6-C12	1		0.000				ND	
182 1-Bromo-2-chloroethane	1		0.000				ND	
183 Ethyl bromide	1		0.000				ND	
184 cis-1,2,3-Trichlorobutene-2	1		0.000				ND	
185 n-Nonane	1		0.000				ND	
S 186 divinyl benzene	1		0.000				ND	7
187 sec-Butyl Alcohol	45		0.000				ND	
188 C4-C12	1		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
189 Isobutyl acetate	43		0.000				ND	
190 Propanol	1		0.000				ND	
191 4-Hydroxy-4-methyl-2-pentanone TIC	1		0.000				ND	
192 Gasoline (Unleaded)	1		0.000				ND	
193 1,1,1,2-Tetrafluoroethane TIC	1		0.000				ND	
194 2,3-Dimethylbutane TIC	1		0.000				ND	
195 2,2-Dimethylbutane TIC	1		0.000				ND	
196 Methylcyclopentane TIC	1		0.000				ND	
197 Decamethylcyclopentasiloxane TIC	1		0.000				ND	
198 Dimethyl Sulfide TIC	1		0.000				ND	
199 2,2-Dimethylpropane TIC	1		0.000				ND	
200 2-Methylhexane TIC	1		0.000				ND	
201 1-Methylnaphthalene (TIC)	1		0.000				ND	
202 3-Methylpentane TIC	1		0.000				ND	
203 1-Methylnaphthalene	142		0.000				ND	
204 3-Pentanone TIC	1		0.000				ND	
205 trans-1,2,3-Trichlorobutene-2	1		0.000				ND	
206 tert-Butyl Formate	1		0.000				ND	
207 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
208 n-Decane	57		0.000				ND	
209 Diethoxymethane	1		0.000				ND	
210 Dodecane	57		0.000				ND	
211 Chloroacetonitrile	1		0.000				ND	
212 Butane	1		0.000				ND	
213 3-chloro-1-Butene	1		0.000				ND	
214 1,3-Divinylbenzene	1		0.000				ND	
215 C5-C12	1		0.000				ND	
216 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000				ND	
217 4-Ethyltoluene	1		0.000				ND	
218 3-chloro-1-Butene TIC	1		0.000				ND	
219 2-Butoxyethyl acetate	1		0.000				ND	
220 sec-Butyl Alcohol TIC	1		0.000				ND	
\$ 221 trans-1,2,3-Trichlorobutene-2 TIC	1		0.000				ND	
222 2-ethoxy-2-methyl butane TIC	1		0.000				ND	
223 Undecane	1		0.000				ND	
224 C6-C10	1		0.000				ND	
225 1,4-Divinylbenzene	1		0.000				ND	
226 n-Octane	1		0.000				ND	
227 2,3-Dichloro-1,3-butadiene	1		0.000				ND	
228 3-Methyl-1-butene	1		0.000				ND	
S 229 Total BTEX	1		0.000				ND	
230 Propene oxide	1		0.000				ND	
231 1-Chlorobutane	1		0.000				ND	
232 Cyclopentane TIC	1		0.000				ND	
233 3-Methylhexane TIC	1		0.000				ND	
234 Methylal	1		0.000				ND	
235 Dimethylformamide TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 09-Oct-2024 14:56:02

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X43.D

Injection Date: 09-Oct-2024 00:56:30

Instrument ID: 9915

Operator ID: gaw91131

Lims ID: 410-191048-A-3

Lab Sample ID: 410-191048-3

Worklist Smp#: 14

Client ID: HD-MW-18D-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

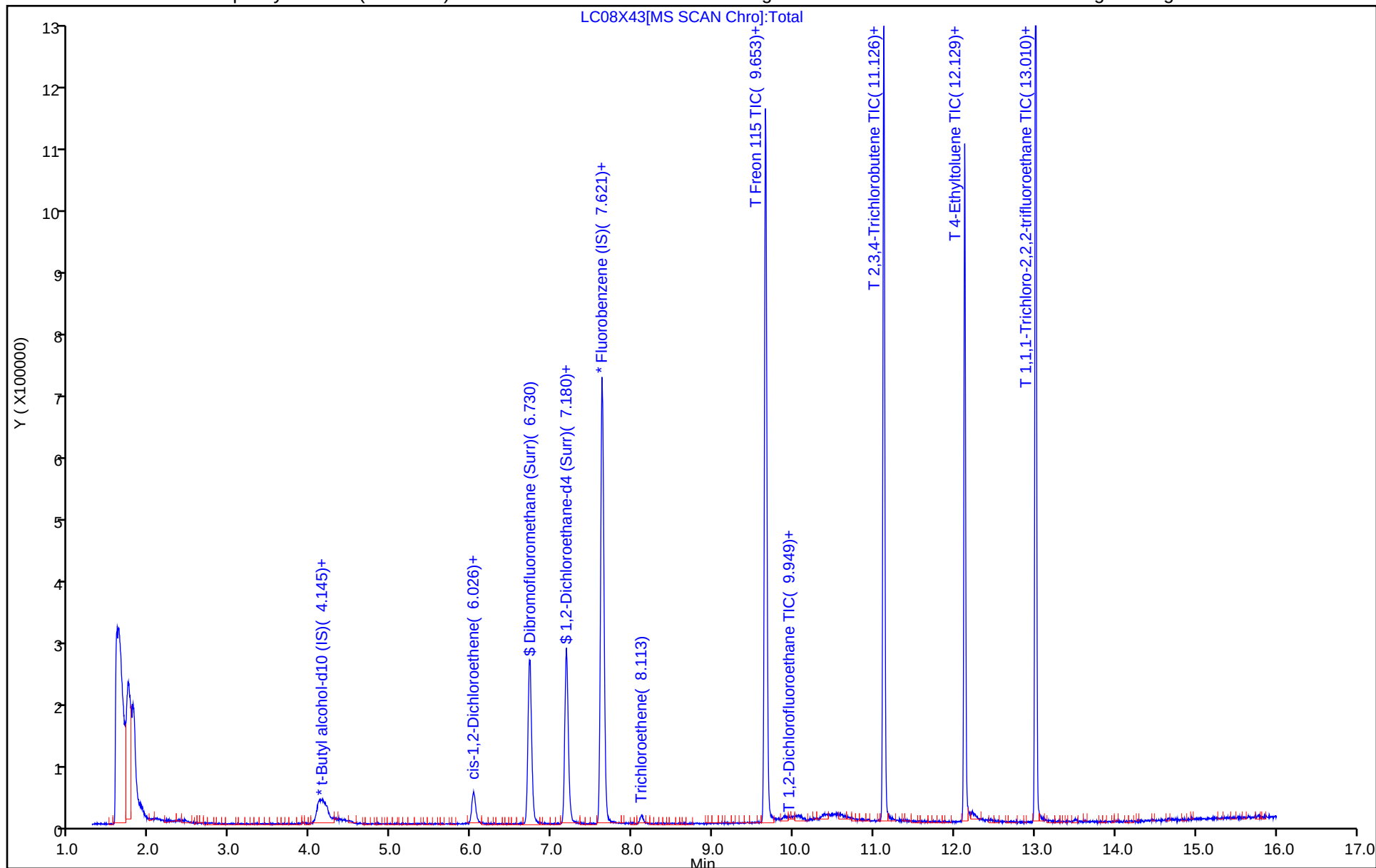
ALS Bottle#: 13

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X43.D
Lims ID: 410-191048-A-3
Client ID: HD-MW-18D-0/1-0
Sample Type: Client
Inject. Date: 09-Oct-2024 00:56:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-014
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 14:56:01 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 14:56:01

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	50.6	101.21
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	52.7	105.42
\$ 82 Toluene-d8 (Surr)	50.0	50.8	101.70
\$ 142 4-Bromofluorobenzene (Surr)	50.0	44.6	89.26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X43.D

Injection Date: 09-Oct-2024 00:56:30

Instrument ID: 9915

Lims ID: 410-191048-A-3

Lab Sample ID: 410-191048-3

Client ID: HD-MW-18D-0/1-0

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

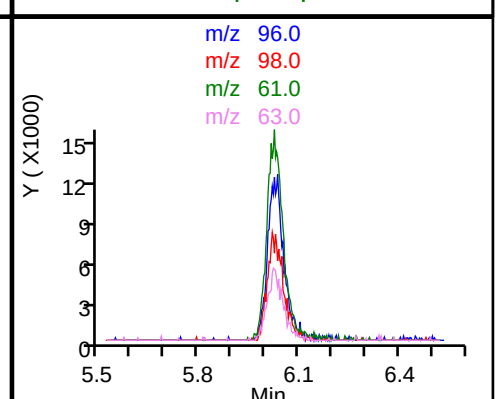
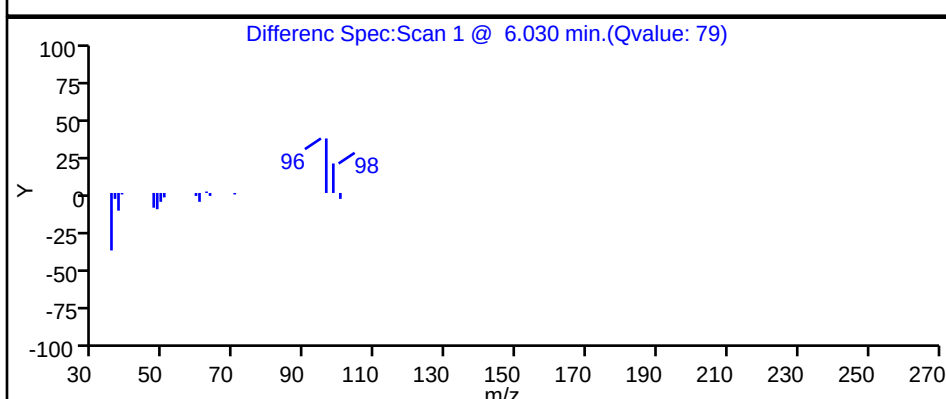
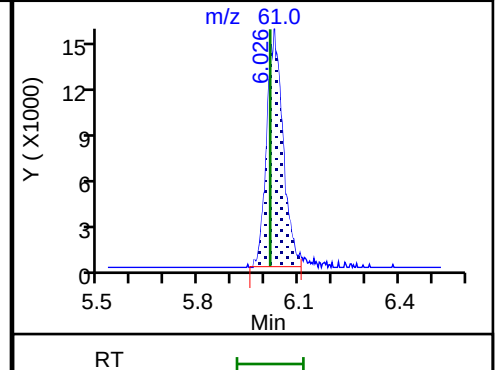
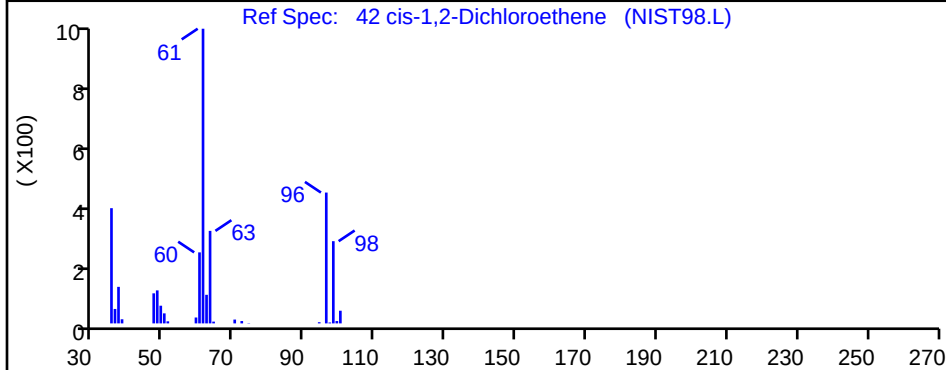
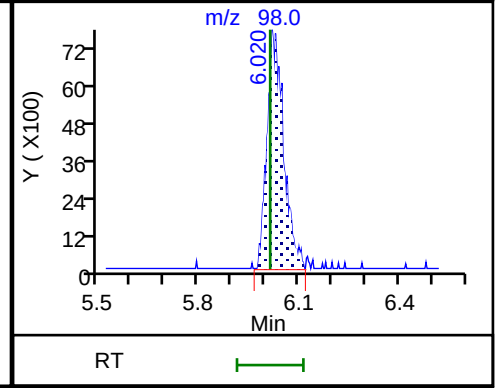
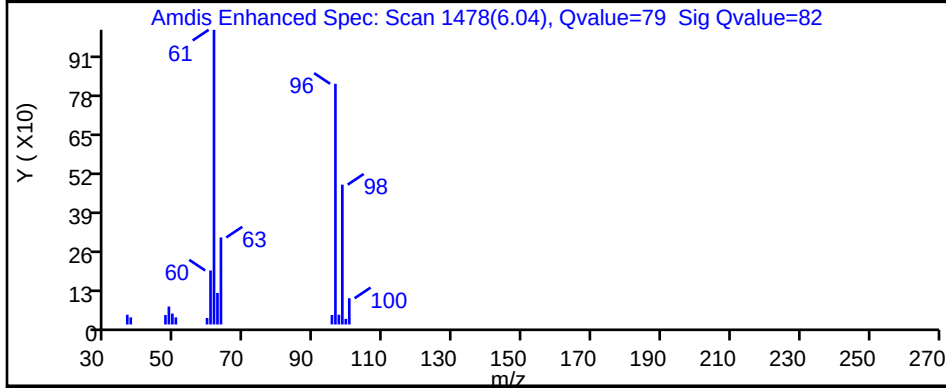
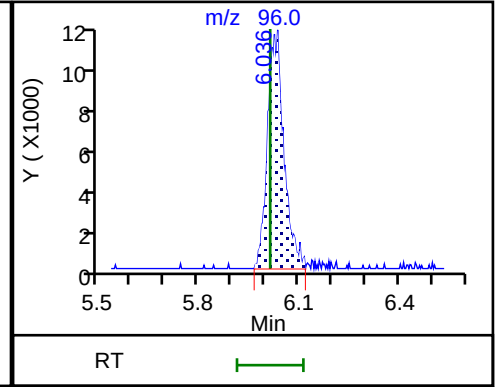
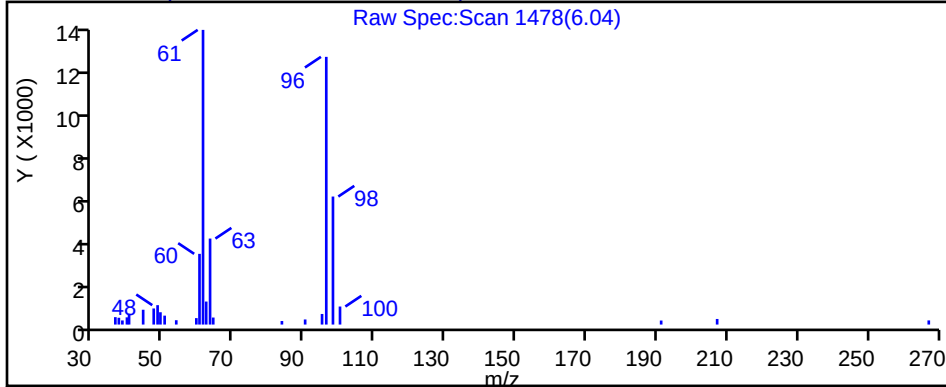
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 30m

MS Quad

42 cis-1,2-Dichloroethene, CAS: 156-59-2

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X43.D

Injection Date: 09-Oct-2024 00:56:30

Instrument ID: 9915

Lims ID: 410-191048-A-3

Lab Sample ID: 410-191048-3

Client ID: HD-MW-18D-0/1-0

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

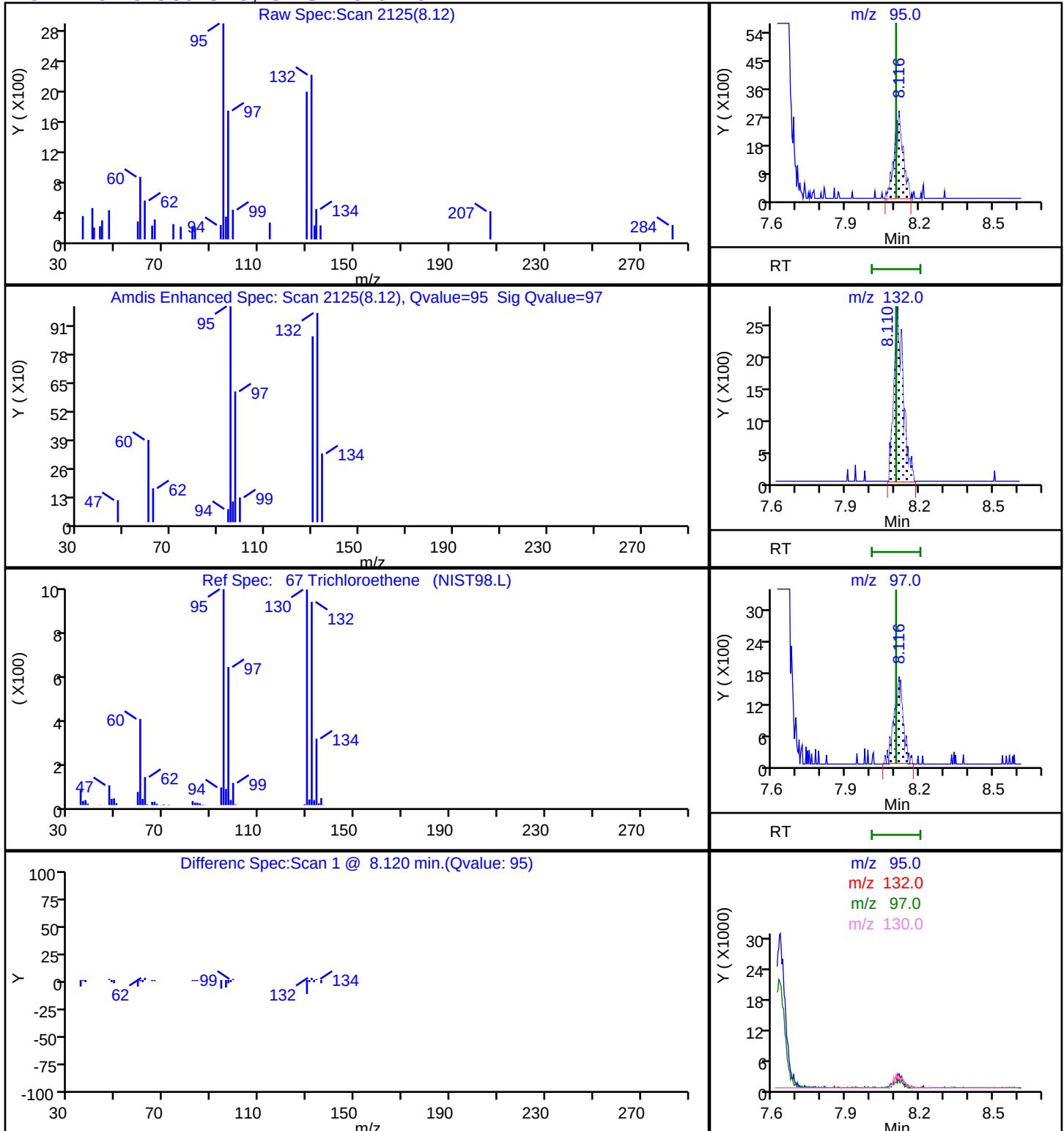
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID)

MS Quad

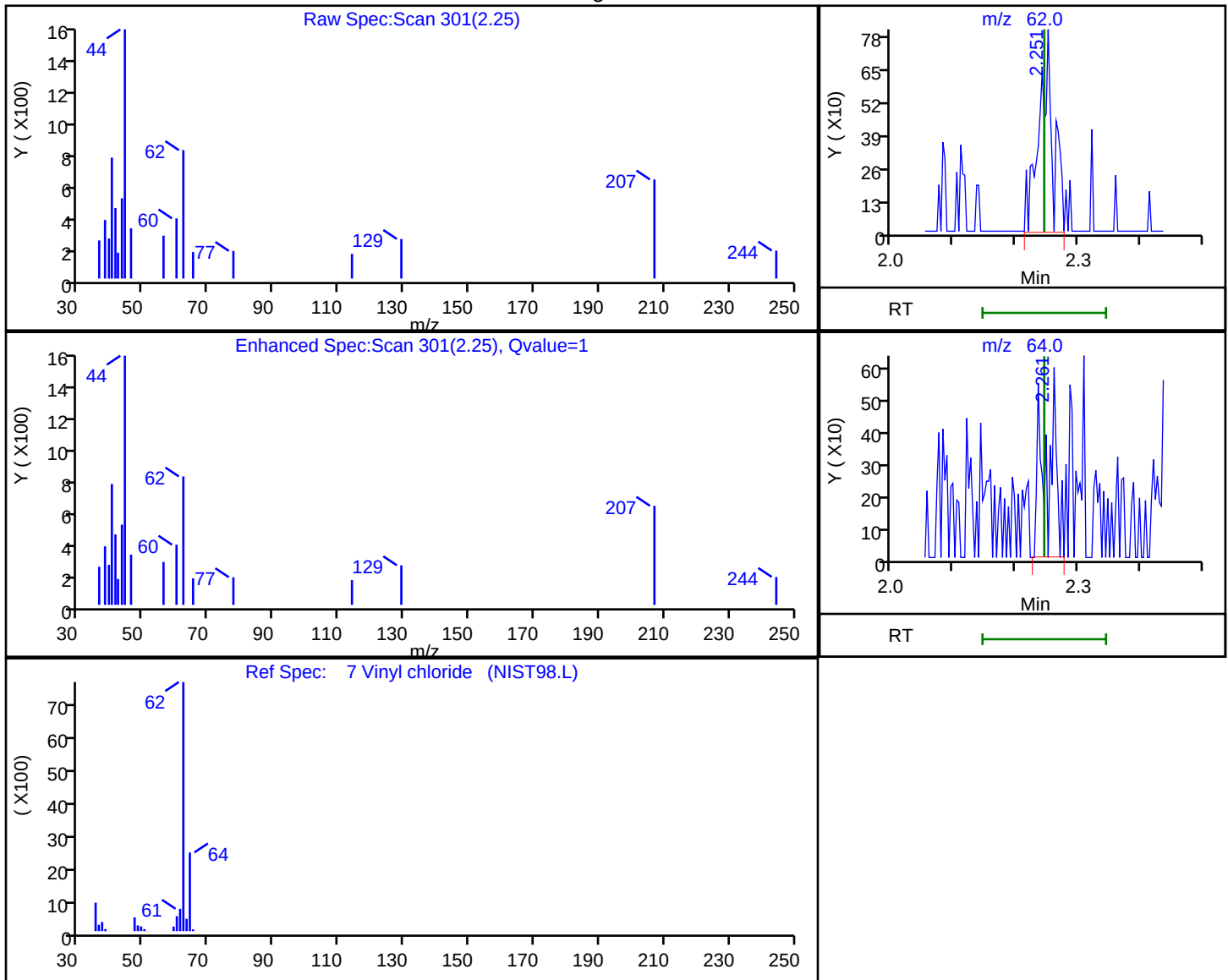
67 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X43.D
Injection Date: 09-Oct-2024 00:56:30 Instrument ID: 9915
Lims ID: 410-191048-A-3 Lab Sample ID: 410-191048-3
Client ID: HD-MW-18D-0/1-0
Operator ID: gaw91131 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

7 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
2.25	62.00	1272	0.131628
2.26	64.00	739	

Reviewer: FQ4L, 09-Oct-2024 14:55:19 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

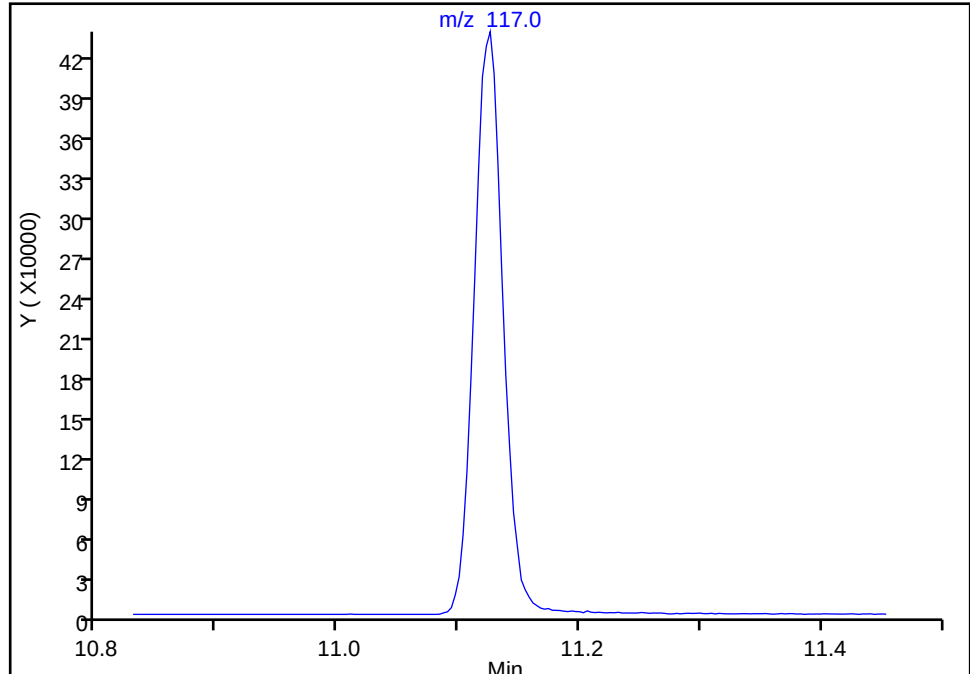
Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X43.D
Injection Date: 09-Oct-2024 00:56:30 Instrument ID: 9915
Lims ID: 410-191048-A-3 Lab Sample ID: 410-191048-3
Client ID: HD-MW-18D-0/1-0
Operator ID: gaw91131 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 125 Chlorobenzene-d5 (IS), CAS: 3114-55-4

Signal: 1

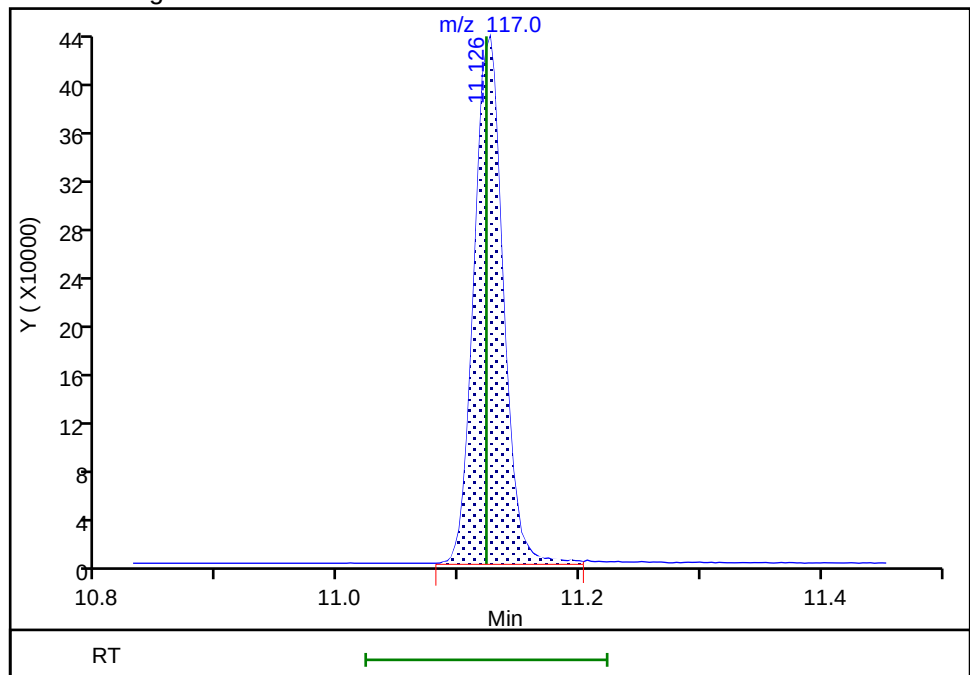
Not Detected
Expected RT: 11.12

Processing Integration Results



RT: 11.13
Area: 731712
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 09-Oct-2024 14:55:09 07:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-GM-1D-0/1-0

Lab Sample ID: 410-191048-4

Matrix: Water

Lab File ID: LC08X46.D

Analysis Method: 8260D

Date Collected: 10/03/2024 09:00

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 02:03

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND	^c cn	1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND	^c cn	10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	0.67	J	1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-GM-1D-0/1-0

Lab Sample ID: 410-191048-4

Matrix: Water

Lab File ID: LC08X46.D

Analysis Method: 8260D

Date Collected: 10/03/2024 09:00

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 02:03

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X46.D
 Lims ID: 410-191048-A-4
 Client ID: HD-GM-1D-0/1-0
 Sample Type: Client
 Inject. Date: 09-Oct-2024 02:03:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-017
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 14:48:17 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 14:48:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.129				ND	7
7 Vinyl chloride	62		2.245				ND	7
9 Bromomethane	94		2.579				ND	
10 Chloroethane	64		2.641				ND	7
18 1,1-Dichloroethene	96		3.464				ND	
19 Acetone	58		3.480				ND	
23 Carbon disulfide	76		3.756				ND	7
27 Methylene Chloride	84		4.100				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.148	4.139	0.009	1	244186	250.0	
31 Methyl tert-butyl ether	73		4.499				ND	7
32 trans-1,2-Dichloroethene	96		4.505				ND	
36 1,1-Dichloroethane	63		5.171				ND	
41 2-Butanone (MEK)	43		5.988				ND	7
42 cis-1,2-Dichloroethene	96		6.013				ND	7
49 Chlorobromomethane	128		6.348				ND	
51 Chloroform	83		6.502				ND	7
\$ 52 Dibromofluoromethane (Surr)	113	6.717	6.718	-0.001	93	266028	49.4	
53 1,1,1-Trichloroethane	97		6.737				ND	
55 Carbon tetrachloride	117		6.952				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.171	0.006	83	63923	49.1	
59 Benzene	78		7.216				ND	7
60 1,2-Dichloroethane	62		7.280				ND	7
* 63 Fluorobenzene (IS)	96	7.624	7.621	0.003	99	1072996	50.0	
67 Trichloroethene	95		8.103				ND	
70 1,2-Dichloropropane	63		8.431				ND	
76 Dichlorobromomethane	83		8.779				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	7
80 4-Methyl-2-pentanone (MIBK)	43		9.515				ND	7
\$ 82 Toluene-d8 (Surr)	98	9.656	9.653	0.003	93	991491	52.0	
90 Toluene	92	9.727	9.727	0.000	94	2594	0.2188	M
95 trans-1,3-Dichloropropene	75		9.988				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166	10.299	10.290	0.009	89	3354	0.6696	
121 2-Hexanone	43		10.415				ND	7
123 Chlorodibromomethane	129		10.573				ND	
124 Ethylene Dibromide	107		10.682				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.126	11.123	0.004	89	752629	50.0	
128 Chlorobenzene	112		11.151				ND	7
131 1,1,1,2-Tetrachloroethane	131		11.229				ND	
132 Ethylbenzene	91		11.238				ND	7
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	7
136 o-Xylene	106		11.685				ND	7
137 Styrene	104		11.698				ND	
138 Bromoform	173		11.852				ND	7
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	339107	45.0	
145 1,1,2,2-Tetrachloroethane	83		12.229				ND	7
* 161 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	430252	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 09-Oct-2024 14:48:18

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X46.D

Injection Date: 09-Oct-2024 02:03:30

Instrument ID: 9915

Operator ID: gaw91131

Lims ID: 410-191048-A-4

Lab Sample ID: 410-191048-4

Worklist Smp#: 17

Client ID: HD-GM-1D-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

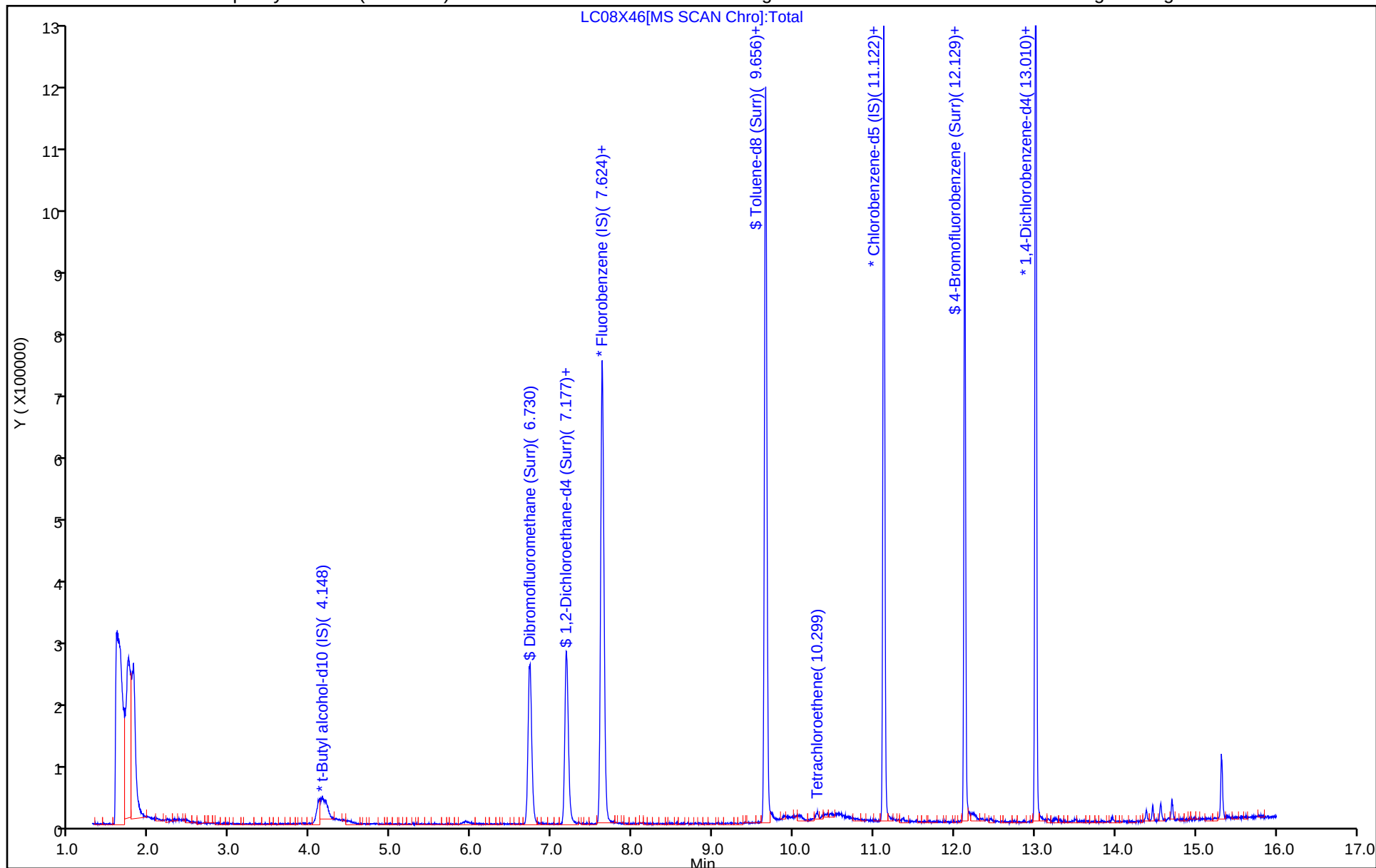
ALS Bottle#: 16

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X46.D
Lims ID: 410-191048-A-4
Client ID: HD-GM-1D-0/1-0
Sample Type: Client
Inject. Date: 09-Oct-2024 02:03:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-017
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 14:48:17 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 14:48:17

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	49.4	98.87
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	49.1	98.30
\$ 82 Toluene-d8 (Surr)	50.0	52.0	104.01
\$ 142 4-Bromofluorobenzene (Surr)	50.0	45.0	90.02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X46.D

Injection Date: 09-Oct-2024 02:03:30

Instrument ID: 9915

Lims ID: 410-191048-A-4

Lab Sample ID: 410-191048-4

Client ID: HD-GM-1D-0/1-0

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 5.000 mL

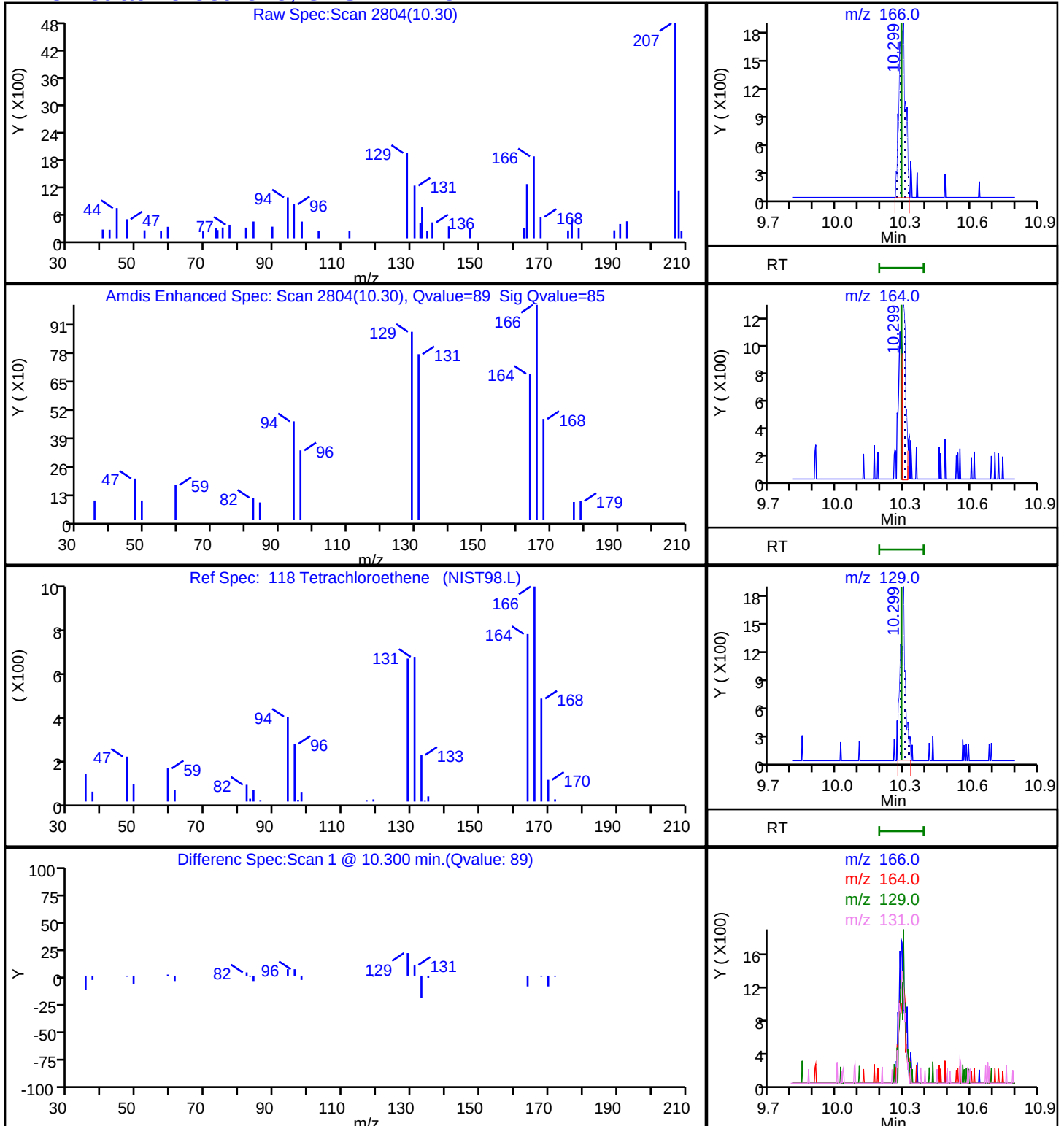
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

118 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

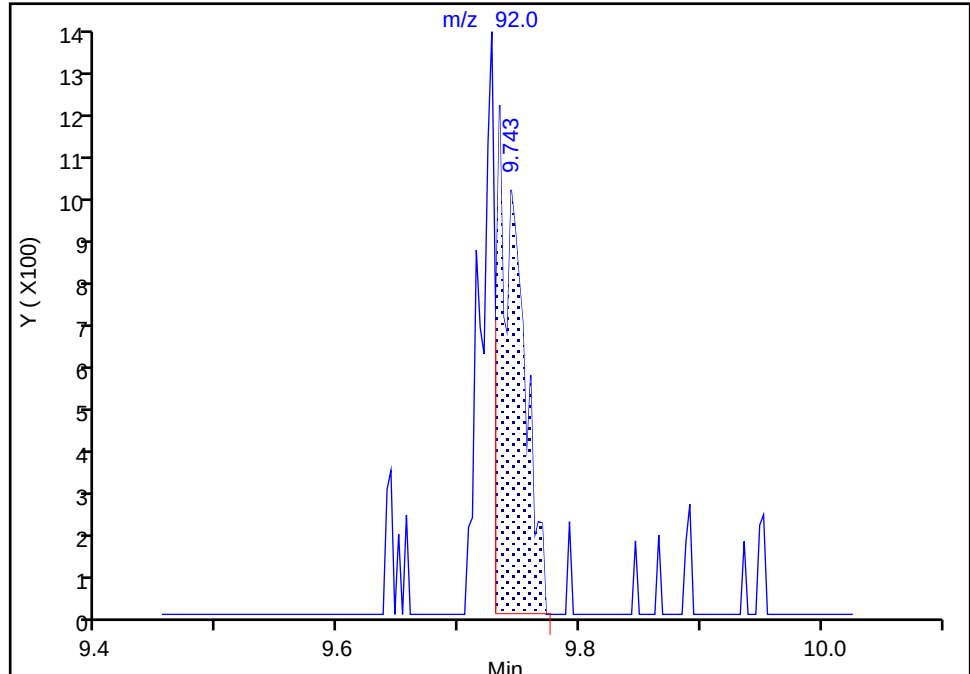
Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X46.D
Injection Date: 09-Oct-2024 02:03:30 Instrument ID: 9915
Lims ID: 410-191048-A-4 Lab Sample ID: 410-191048-4
Client ID: HD-GM-1D-0/1-0
Operator ID: gaw91131 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

90 Toluene, CAS: 108-88-3

Signal: 1

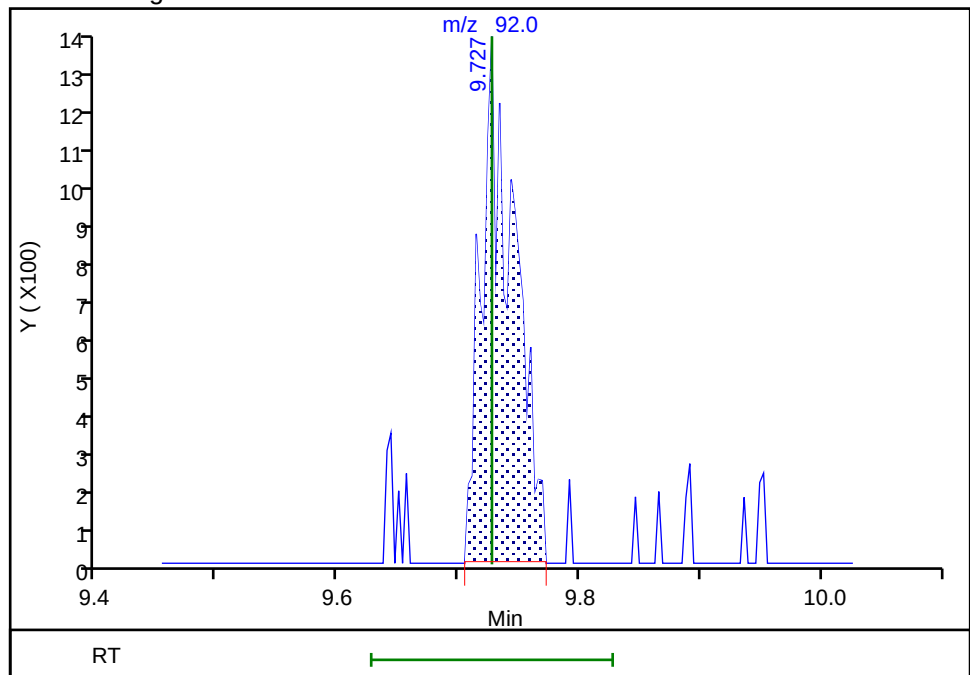
RT: 9.74
Area: 1605
Amount: 0.135365
Amount Units: ug/l

Processing Integration Results



RT: 9.73
Area: 2594
Amount: 0.218776
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 09-Oct-2024 14:48:06 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-MW-150-0/1-0

Lab Sample ID: 410-191048-5

Matrix: Water

Lab File ID: LC08X47.D

Analysis Method: 8260D

Date Collected: 10/03/2024 11:15

Sample wt/vol: 5(mL)

Date Analyzed: 10/09/2024 02:25

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	0.35	J ^c cn	1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND	^c cn	10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	39		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-MW-150-0/1-0 Lab Sample ID: 410-191048-5

Matrix: Water Lab File ID: LC08X47.D

Analysis Method: 8260D Date Collected: 10/03/2024 11:15

Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2024 02:25

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 560875 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	ND		1.0	0.30
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	27		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X47.D
 Lims ID: 410-191048-A-5
 Client ID: HD-MW-150-0/1-0
 Sample Type: Client
 Inject. Date: 09-Oct-2024 02:25:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-018
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 14:47:03 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 14:47:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.129				ND	7
7 Vinyl chloride	62		2.245				ND	7
9 Bromomethane	94		2.579				ND	
10 Chloroethane	64		2.641				ND	7
18 1,1-Dichloroethene	96	3.483	3.464	0.019	14	1841	0.3459	
19 Acetone	58		3.480				ND	
23 Carbon disulfide	76		3.756				ND	7
27 Methylene Chloride	84		4.100				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.123	4.139	-0.016	1	227397	250.0	
31 Methyl tert-butyl ether	73		4.499				ND	
32 trans-1,2-Dichloroethene	96		4.505				ND	
36 1,1-Dichloroethane	63		5.171				ND	
41 2-Butanone (MEK)	43		5.988				ND	7
42 cis-1,2-Dichloroethene	96	6.020	6.013	0.007	79	213683	39.1	
49 Chlorobromomethane	128		6.348				ND	
51 Chloroform	83		6.502				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.717	6.718	-0.001	93	253670	49.9	
53 1,1,1-Trichloroethane	97		6.737				ND	
55 Carbon tetrachloride	117		6.952				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.180	7.171	0.009	83	63453	51.6	
59 Benzene	78		7.216				ND	7
60 1,2-Dichloroethane	62		7.280				ND	
* 63 Fluorobenzene (IS)	96	7.621	7.621	0.000	99	1014074	50.0	
67 Trichloroethene	95	8.103	8.103	0.000	98	140414	26.9	
70 1,2-Dichloropropane	63		8.431				ND	
76 Dichlorobromomethane	83		8.779				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.515				ND	7
\$ 82 Toluene-d8 (Surr)	98	9.653	9.653	0.000	93	963664	51.2	
90 Toluene	92		9.727				ND	7
95 trans-1,3-Dichloropropene	75		9.988				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166		10.290				ND	
121 2-Hexanone	43		10.415				ND	7
123 Chlorodibromomethane	129		10.573				ND	
124 Ethylene Dibromide	107		10.682				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.122	11.123	0.000	85	743695	50.0	
128 Chlorobenzene	112		11.151				ND	7
131 1,1,1,2-Tetrachloroethane	131		11.229				ND	
132 Ethylbenzene	91		11.238				ND	7
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	
136 o-Xylene	106		11.685				ND	7
137 Styrene	104		11.698				ND	
138 Bromoform	173		11.852				ND	7
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	334285	44.9	
145 1,1,2,2-Tetrachloroethane	83		12.229				ND	7
* 161 1,4-Dichlorobenzene-d4	152	13.010	13.013	-0.003	95	433280	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 09-Oct-2024 14:47:41

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X47.D

Injection Date: 09-Oct-2024 02:25:30

Instrument ID: 9915

Operator ID: gaw91131

Lims ID: 410-191048-A-5

Lab Sample ID: 410-191048-5

Worklist Smp#: 18

Client ID: HD-MW-150-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

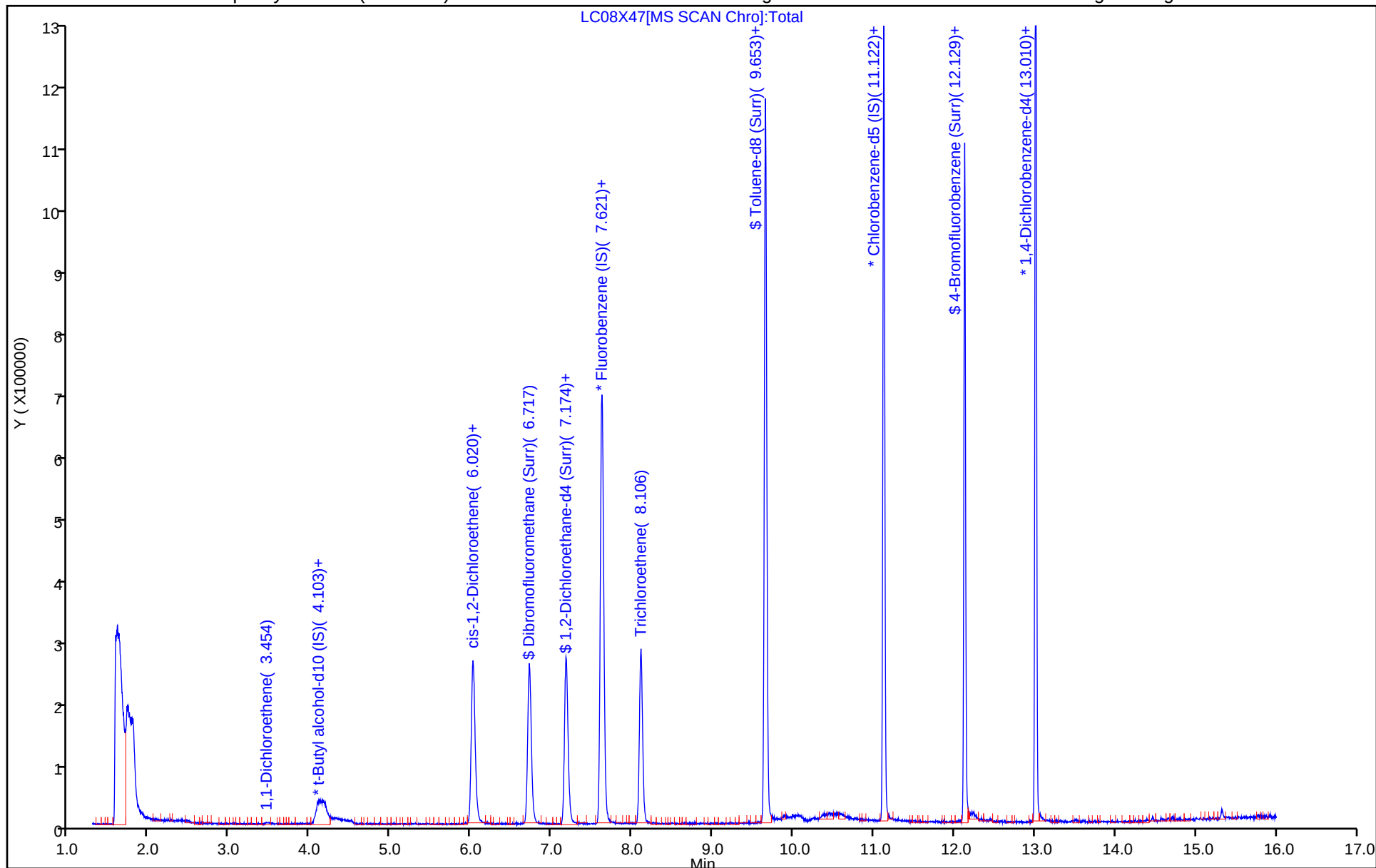
ALS Bottle#: 17

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X47.D
Lims ID: 410-191048-A-5
Client ID: HD-MW-150-0/1-0
Sample Type: Client
Inject. Date: 09-Oct-2024 02:25:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-018
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 14:47:03 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 14:47:40

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	49.9	99.76
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	51.6	103.24
\$ 82 Toluene-d8 (Surr)	50.0	51.2	102.30
\$ 142 4-Bromofluorobenzene (Surr)	50.0	44.9	89.80

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X47.D

Injection Date: 09-Oct-2024 02:25:30

Instrument ID: 9915

Lims ID: 410-191048-A-5

Lab Sample ID: 410-191048-5

Client ID: HD-MW-150-0/1-0

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 5.000 mL

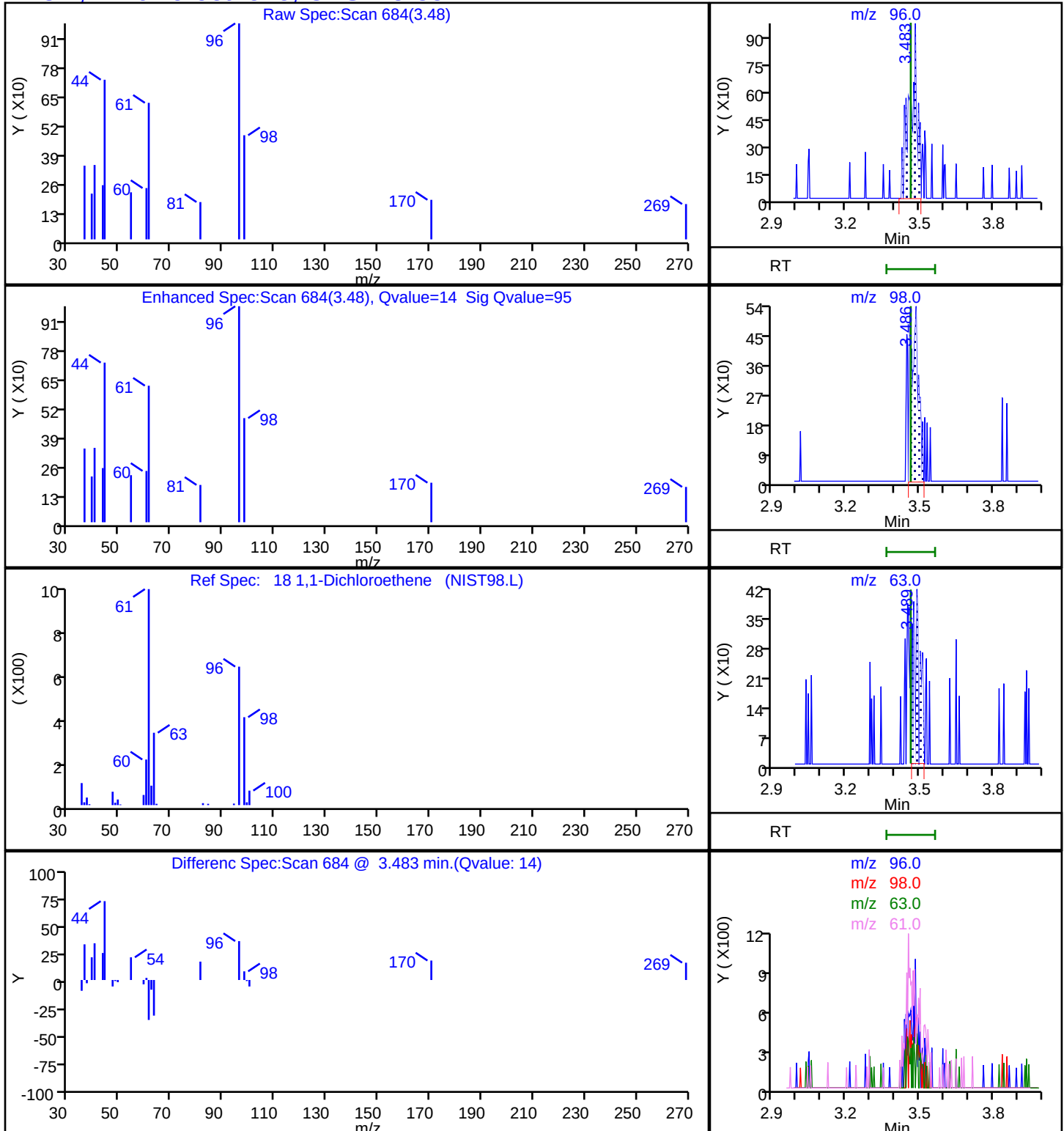
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 30m

MS Quad

18 1,1-Dichloroethene, CAS: 75-35-4

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X47.D

Injection Date: 09-Oct-2024 02:25:30

Instrument ID: 9915

Lims ID: 410-191048-A-5

Lab Sample ID: 410-191048-5

Client ID: HD-MW-150-0/1-0

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 5.000 mL

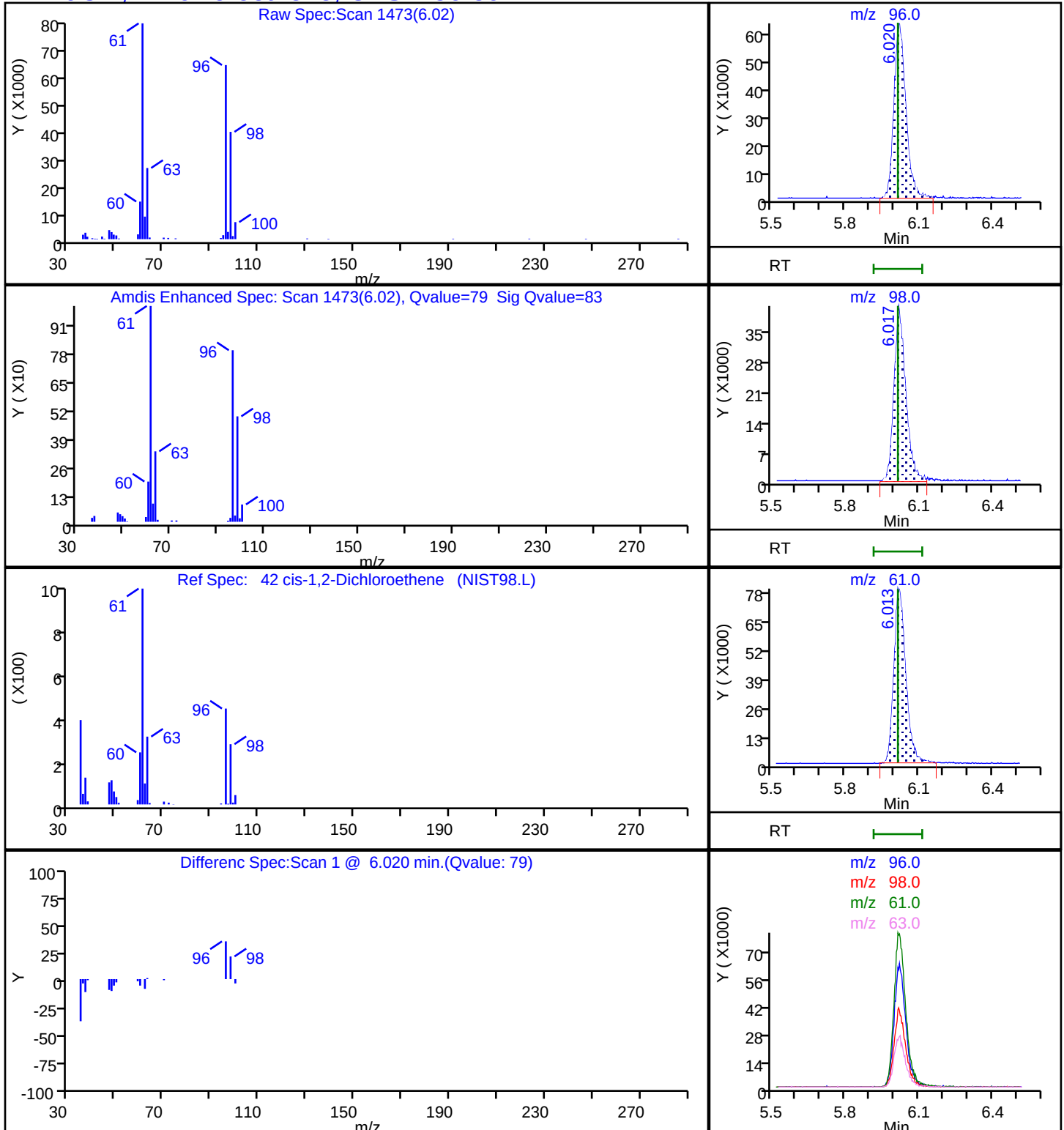
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

42 cis-1,2-Dichloroethene, CAS: 156-59-2

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X47.D

Injection Date: 09-Oct-2024 02:25:30

Instrument ID: 9915

Lims ID: 410-191048-A-5

Lab Sample ID: 410-191048-5

Client ID: HD-MW-150-0/1-0

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 5.000 mL

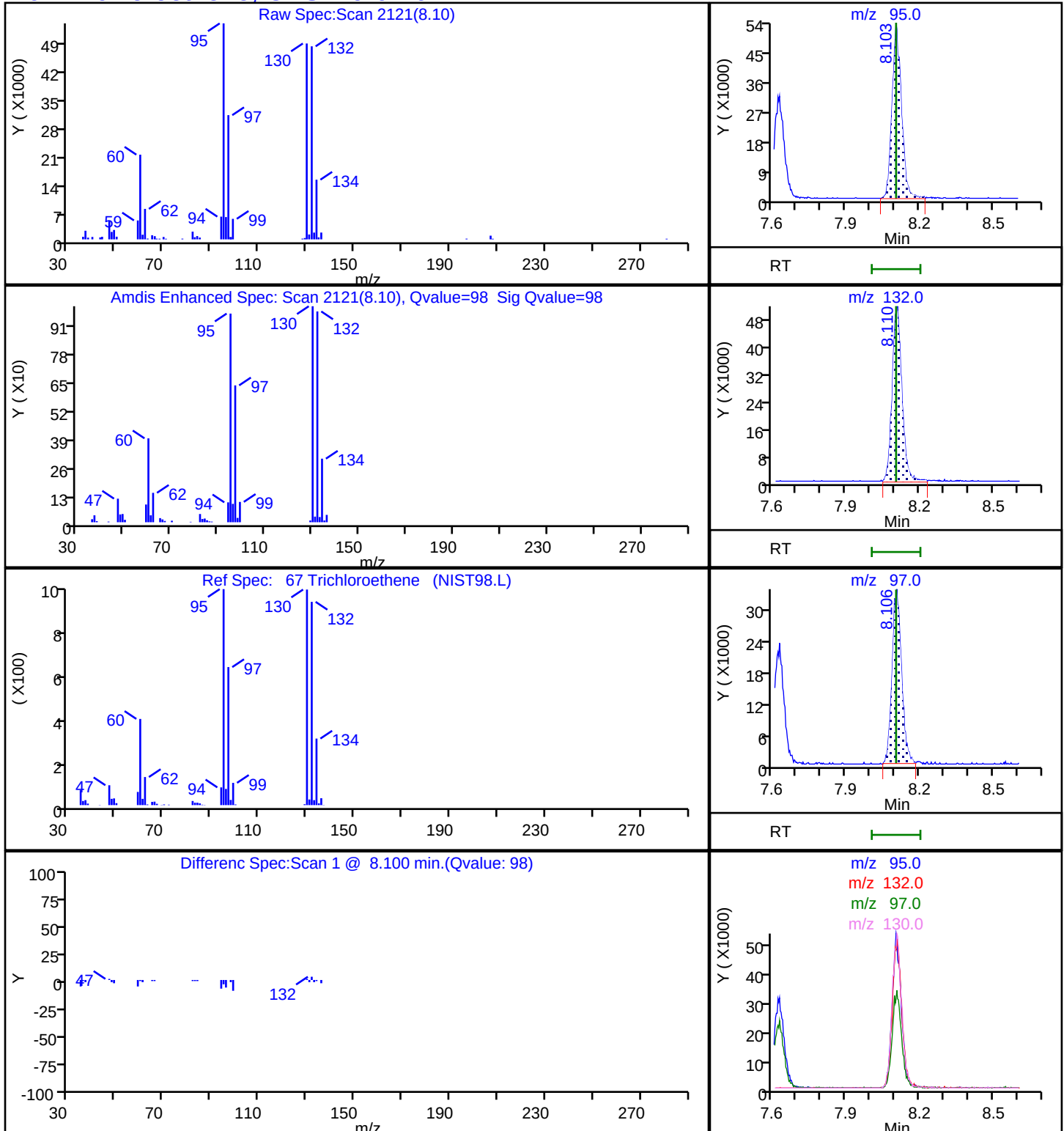
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

67 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-Cole D-0/1-0

Lab Sample ID: 410-191048-6

Matrix: Water

Lab File ID: LC08X48.D

Analysis Method: 8260D

Date Collected: 10/03/2024 12:30

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 02:48

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND	^c cn	1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND	^c cn	10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	18		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	Job No.: 410-191048-1
SDG No.:	
Client Sample ID: HD-Cole D-0/1-0	Lab Sample ID: 410-191048-6
Matrix: Water	Lab File ID: LC08X48.D
Analysis Method: 8260D	Date Collected: 10/03/2024 12:30
Sample wt/vol: 5 (mL)	Date Analyzed: 10/09/2024 02:48
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: R-624SilMS 30m ID: 0.25 (mm)
Purge Volume: 5.0 (mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 560875	Units: ug/L
Preparation Batch No.:	Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	0.43	J	1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X48.D
 Lims ID: 410-191048-A-6
 Client ID: HD-Cole D-0/1-0
 Sample Type: Client
 Inject. Date: 09-Oct-2024 02:48:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-019
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 14:47:03 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 14:47:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.129				ND	
7 Vinyl chloride	62		2.245				ND	
9 Bromomethane	94		2.579				ND	
10 Chloroethane	64		2.641				ND	7
18 1,1-Dichloroethene	96		3.464				ND	7
19 Acetone	58		3.480				ND	
23 Carbon disulfide	76		3.756				ND	7
27 Methylene Chloride	84		4.100				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.148	4.139	0.009	1	217961	250.0	
31 Methyl tert-butyl ether	73		4.499				ND	
32 trans-1,2-Dichloroethene	96		4.505				ND	
36 1,1-Dichloroethane	63		5.171				ND	
41 2-Butanone (MEK)	43		5.988				ND	7
42 cis-1,2-Dichloroethene	96		6.013				ND	
49 Chlorobromomethane	128		6.348				ND	
51 Chloroform	83		6.502				ND	7
\$ 52 Dibromofluoromethane (Surr)	113	6.721	6.718	0.003	93	256176	49.5	
53 1,1,1-Trichloroethane	97		6.737				ND	
55 Carbon tetrachloride	117		6.952				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.171	0.006	83	63548	50.8	
59 Benzene	78		7.216				ND	
60 1,2-Dichloroethane	62		7.280				ND	
* 63 Fluorobenzene (IS)	96	7.627	7.621	0.006	99	1031299	50.0	
67 Trichloroethene	95	8.113	8.103	0.010	40	2297	0.4329	M
70 1,2-Dichloropropane	63		8.431				ND	
76 Dichlorobromomethane	83		8.779				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	7
80 4-Methyl-2-pentanone (MIBK)	43		9.515				ND	7
\$ 82 Toluene-d8 (Surr)	98	9.656	9.653	0.003	94	961860	51.5	
90 Toluene	92		9.727				ND	7
95 trans-1,3-Dichloropropene	75		9.988				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166	10.293	10.290	0.003	98	88460	18.0	
121 2-Hexanone	43		10.415				ND	7
123 Chlorodibromomethane	129		10.573				ND	7
124 Ethylene Dibromide	107		10.682				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.122	11.123	0.000	85	737125	50.0	
128 Chlorobenzene	112		11.151				ND	7
131 1,1,1,2-Tetrachloroethane	131		11.229				ND	7
132 Ethylbenzene	91		11.238				ND	7
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	7
136 o-Xylene	106		11.685				ND	
137 Styrene	104		11.698				ND	
138 Bromoform	173		11.852				ND	
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	331217	44.9	
145 1,1,2,2-Tetrachloroethane	83		12.229				ND	7
* 161 1,4-Dichlorobenzene-d4	152	13.010	13.013	-0.003	95	432695	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 09-Oct-2024 14:47:03

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X48.D

Injection Date: 09-Oct-2024 02:48:30

Instrument ID: 9915

Operator ID: gaw91131

Lims ID: 410-191048-A-6

Lab Sample ID: 410-191048-6

Worklist Smp#: 19

Client ID: HD-Cole D-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

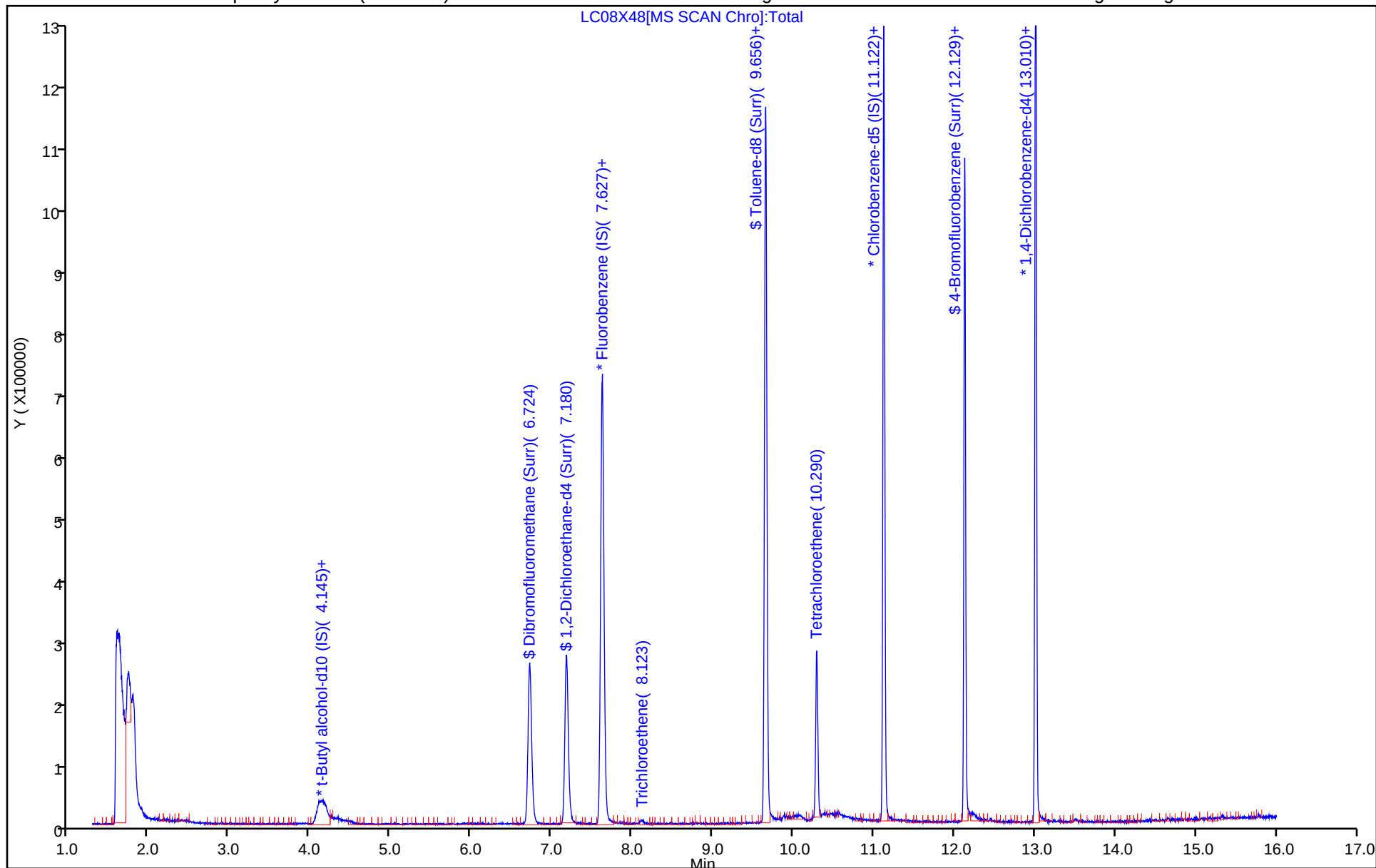
ALS Bottle#: 18

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X48.D
Lims ID: 410-191048-A-6
Client ID: HD-Cole D-0/1-0
Sample Type: Client
Inject. Date: 09-Oct-2024 02:48:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-019
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 14:47:03 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 14:47:03

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	49.5	99.06
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	50.8	101.67
\$ 82 Toluene-d8 (Surr)	50.0	51.5	103.02
\$ 142 4-Bromofluorobenzene (Surr)	50.0	44.9	89.77

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X48.D

Injection Date: 09-Oct-2024 02:48:30

Instrument ID: 9915

Lims ID: 410-191048-A-6

Lab Sample ID: 410-191048-6

Client ID: HD-Cole D-0/1-0

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 5.000 mL

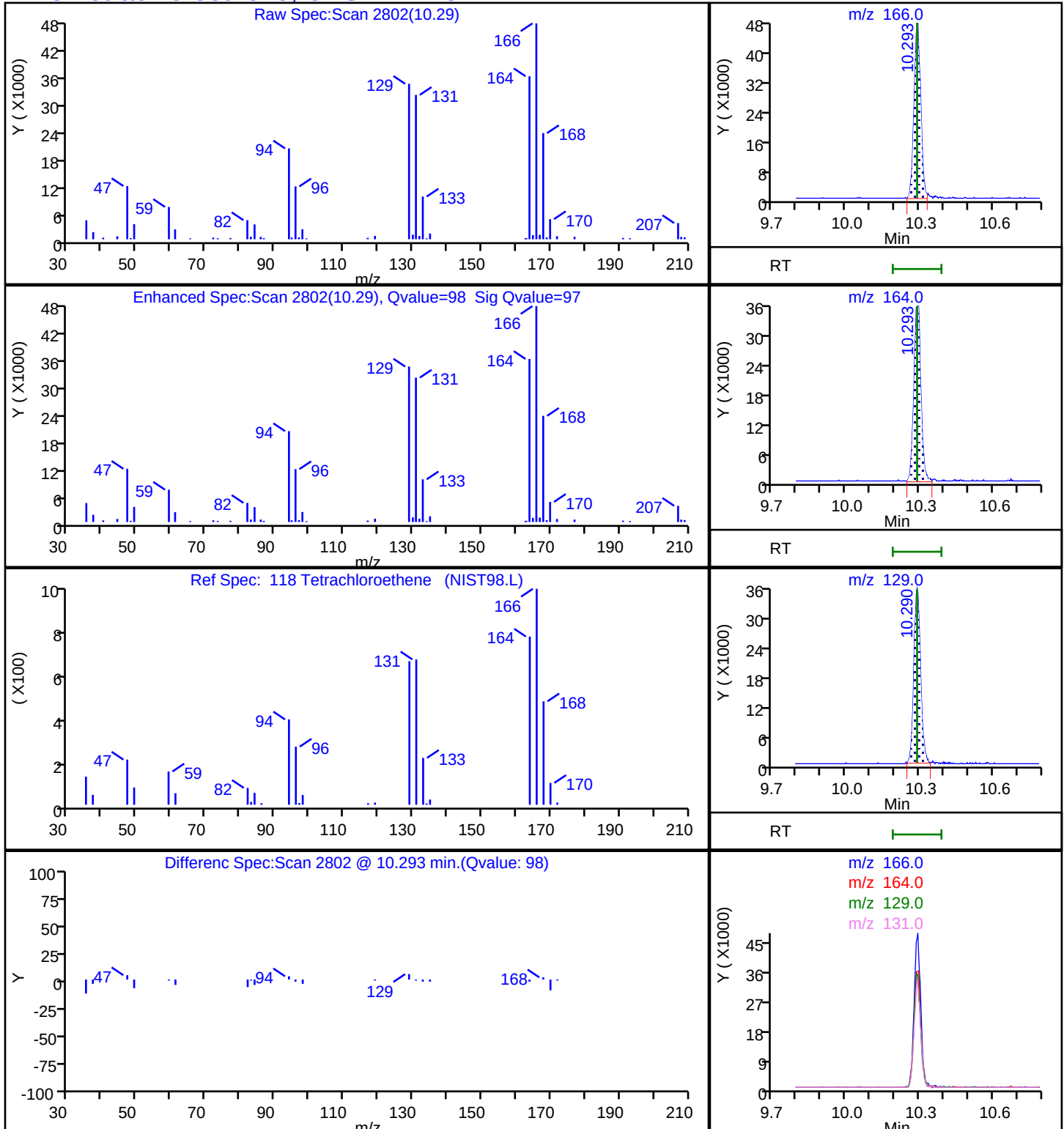
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

118 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X48.D

Injection Date: 09-Oct-2024 02:48:30

Instrument ID: 9915

Lims ID: 410-191048-A-6

Lab Sample ID: 410-191048-6

Client ID: HD-Cole D-0/1-0

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 5.000 mL

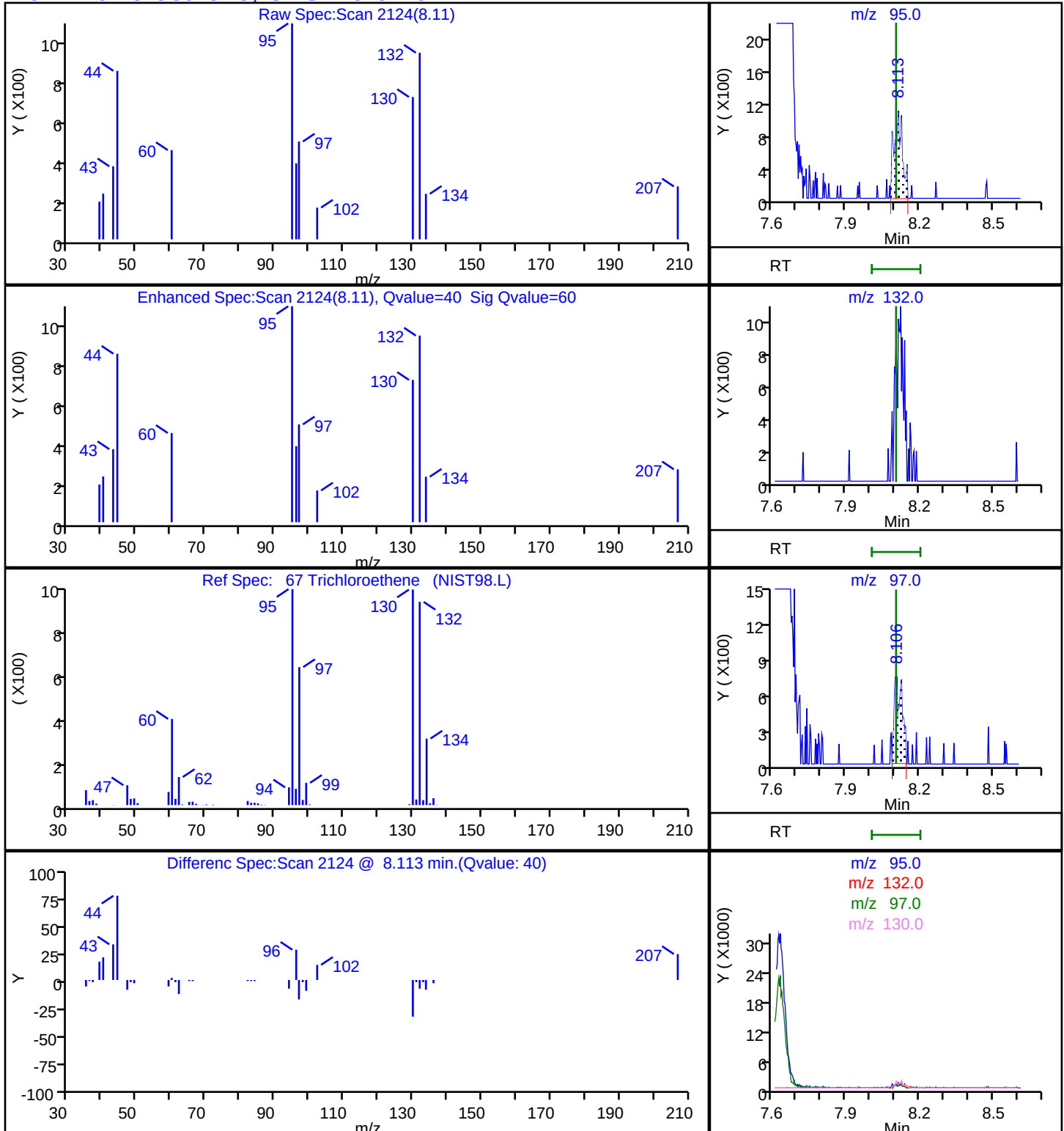
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 150m

MS Quad

67 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

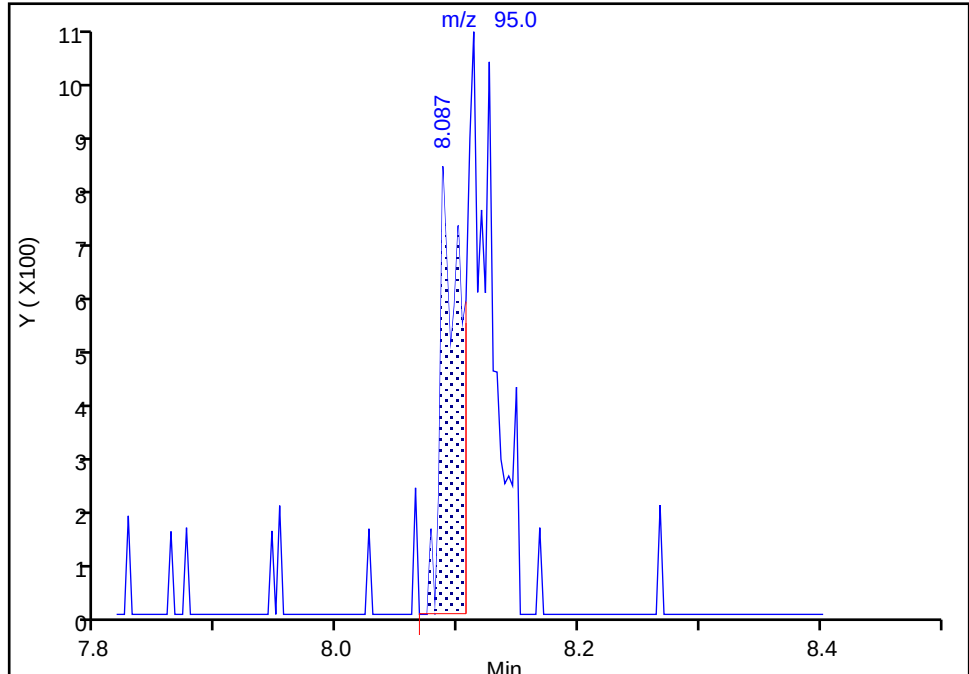
Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X48.D
Injection Date: 09-Oct-2024 02:48:30 Instrument ID: 9915
Lims ID: 410-191048-A-6 Lab Sample ID: 410-191048-6
Client ID: HD-Cole D-0/1-0
Operator ID: gaw91131 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

67 Trichloroethene, CAS: 79-01-6

Signal: 1

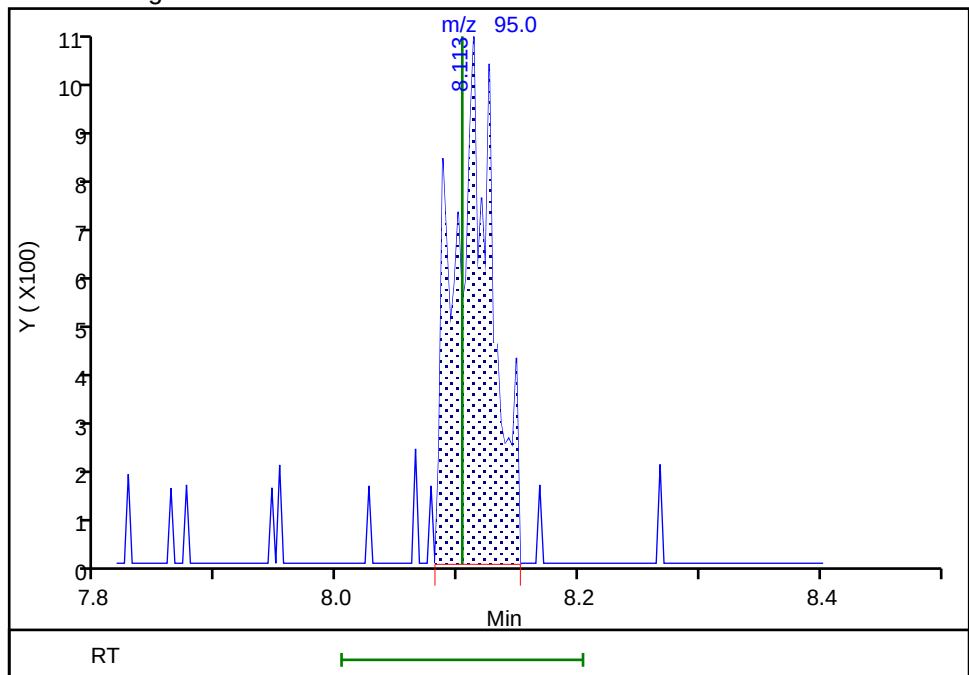
RT: 8.09
Area: 922
Amount: 0.173752
Amount Units: ug/l

Processing Integration Results



RT: 8.11
Area: 2297
Amount: 0.432872
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 09-Oct-2024 14:46:51 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-MW-69-0/1-0

Lab Sample ID: 410-191048-7

Matrix: Water

Lab File ID: LC08X49.D

Analysis Method: 8260D

Date Collected: 10/03/2024 14:18

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 03:10

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND	^c cn	1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND	^c cn	10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	5.4		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	0.33	J	1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-MW-69-0/1-0

Lab Sample ID: 410-191048-7

Matrix: Water

Lab File ID: LC08X49.D

Analysis Method: 8260D

Date Collected: 10/03/2024 14:18

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 03:10

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	4.3		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X49.D
 Lims ID: 410-191048-A-7
 Client ID: HD-MW-69-0/1-0
 Sample Type: Client
 Inject. Date: 09-Oct-2024 03:10:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-020
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 01:29:27 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 14:46:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.129				ND	7
7 Vinyl chloride	62		2.245				ND	
9 Bromomethane	94		2.579				ND	
10 Chloroethane	64		2.641				ND	7
18 1,1-Dichloroethene	96		3.464				ND	7
19 Acetone	58		3.480				ND	
23 Carbon disulfide	76		3.756				ND	7
27 Methylene Chloride	84		4.100				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.110	4.139	-0.029	1	228097	250.0	
31 Methyl tert-butyl ether	73		4.499				ND	7
32 trans-1,2-Dichloroethene	96		4.505				ND	
36 1,1-Dichloroethane	63		5.171				ND	
41 2-Butanone (MEK)	43		5.988				ND	7
42 cis-1,2-Dichloroethene	96	6.020	6.013	0.007	83	29206	5.40	
49 Chlorobromomethane	128		6.348				ND	
51 Chloroform	83	6.505	6.502	0.003	1	1081	0.1206	
\$ 52 Dibromofluoromethane (Surr)	113	6.714	6.718	-0.004	93	252344	50.1	
53 1,1,1-Trichloroethane	97		6.737				ND	
55 Carbon tetrachloride	117		6.952				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.181	7.171	0.010	83	61719	50.7	
59 Benzene	78		7.216				ND	7
60 1,2-Dichloroethane	62		7.280				ND	
* 63 Fluorobenzene (IS)	96	7.621	7.621	0.000	100	1004881	50.0	
67 Trichloroethene	95	8.103	8.103	0.000	97	22074	4.27	
70 1,2-Dichloropropane	63		8.431				ND	
76 Dichlorobromomethane	83		8.779				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.515				ND	7
\$ 82 Toluene-d8 (Surr)	98	9.653	9.653	0.000	94	946244	51.0	
90 Toluene	92		9.727				ND	7
95 trans-1,3-Dichloropropene	75		9.988				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166	10.296	10.290	0.006	25	1633	0.3349	
121 2-Hexanone	43		10.415				ND	7
123 Chlorodibromomethane	129		10.573				ND	
124 Ethylene Dibromide	107		10.682				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.123	11.123	0.000	85	732610	50.0	
128 Chlorobenzene	112		11.151				ND	
131 1,1,1,2-Tetrachloroethane	131		11.229				ND	
132 Ethylbenzene	91		11.238				ND	
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	7
136 o-Xylene	106		11.685				ND	
137 Styrene	104		11.698				ND	7
138 Bromoform	173		11.852				ND	7
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	328431	44.8	
145 1,1,2,2-Tetrachloroethane	83		12.229				ND	
* 161 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	428307	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X49.D

Injection Date: 09-Oct-2024 03:10:30

Instrument ID: 9915

Operator ID: gaw91131

Lims ID: 410-191048-A-7

Lab Sample ID: 410-191048-7

Worklist Smp#: 20

Client ID: HD-MW-69-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

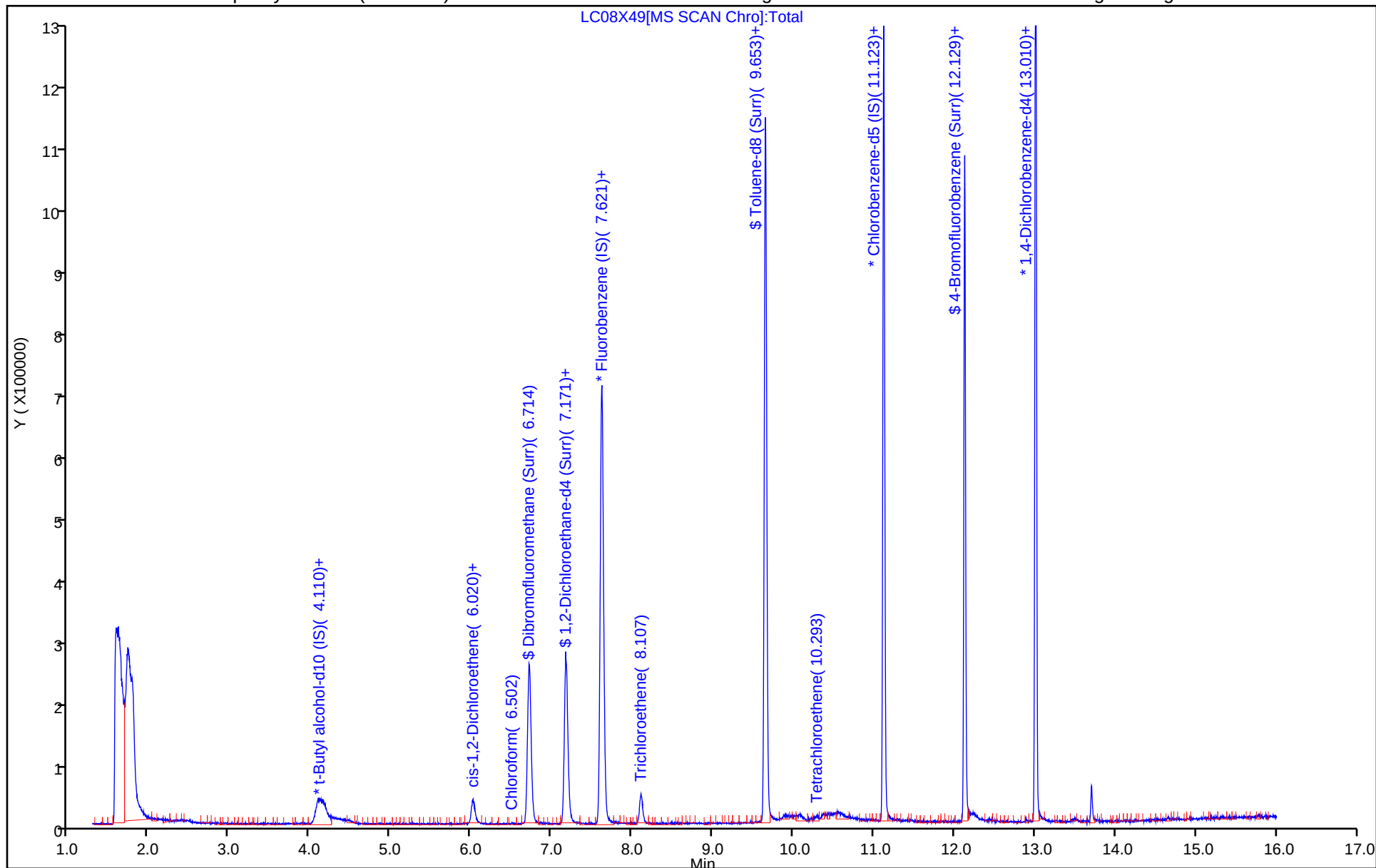
ALS Bottle#: 19

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X49.D
Lims ID: 410-191048-A-7
Client ID: HD-MW-69-0/1-0
Sample Type: Client
Inject. Date: 09-Oct-2024 03:10:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-020
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 01:29:27 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 14:46:29

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	50.1	100.15
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	50.7	101.34
\$ 82 Toluene-d8 (Surr)	50.0	51.0	101.97
\$ 142 4-Bromofluorobenzene (Surr)	50.0	44.8	89.57

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X49.D

Injection Date: 09-Oct-2024 03:10:30

Instrument ID: 9915

Lims ID: 410-191048-A-7

Lab Sample ID: 410-191048-7

Client ID: HD-MW-69-0/1-0

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

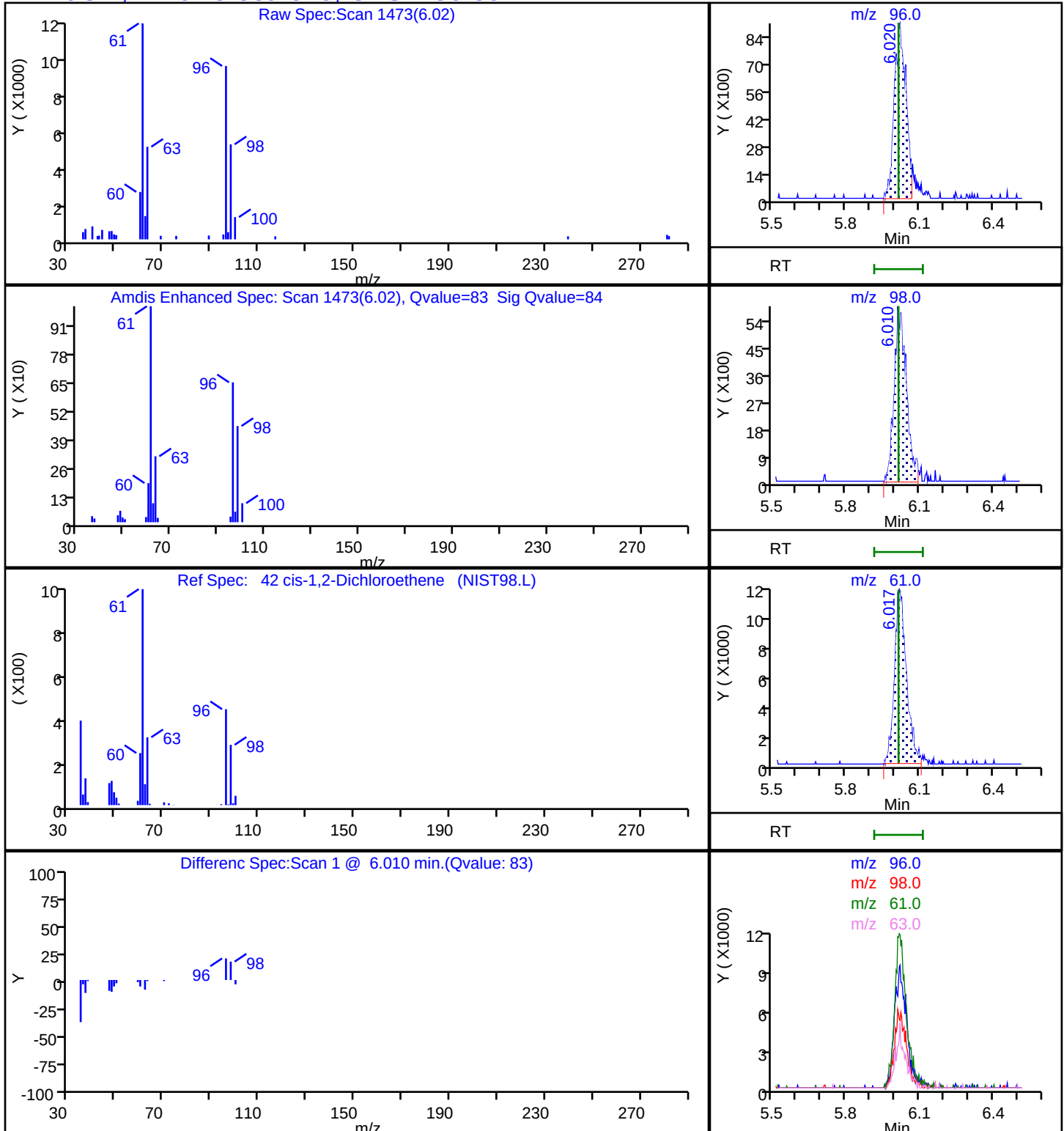
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 30m

MS Quad

42 cis-1,2-Dichloroethene, CAS: 156-59-2

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X49.D

Injection Date: 09-Oct-2024 03:10:30

Instrument ID: 9915

Lims ID: 410-191048-A-7

Lab Sample ID: 410-191048-7

Client ID: HD-MW-69-0/1-0

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

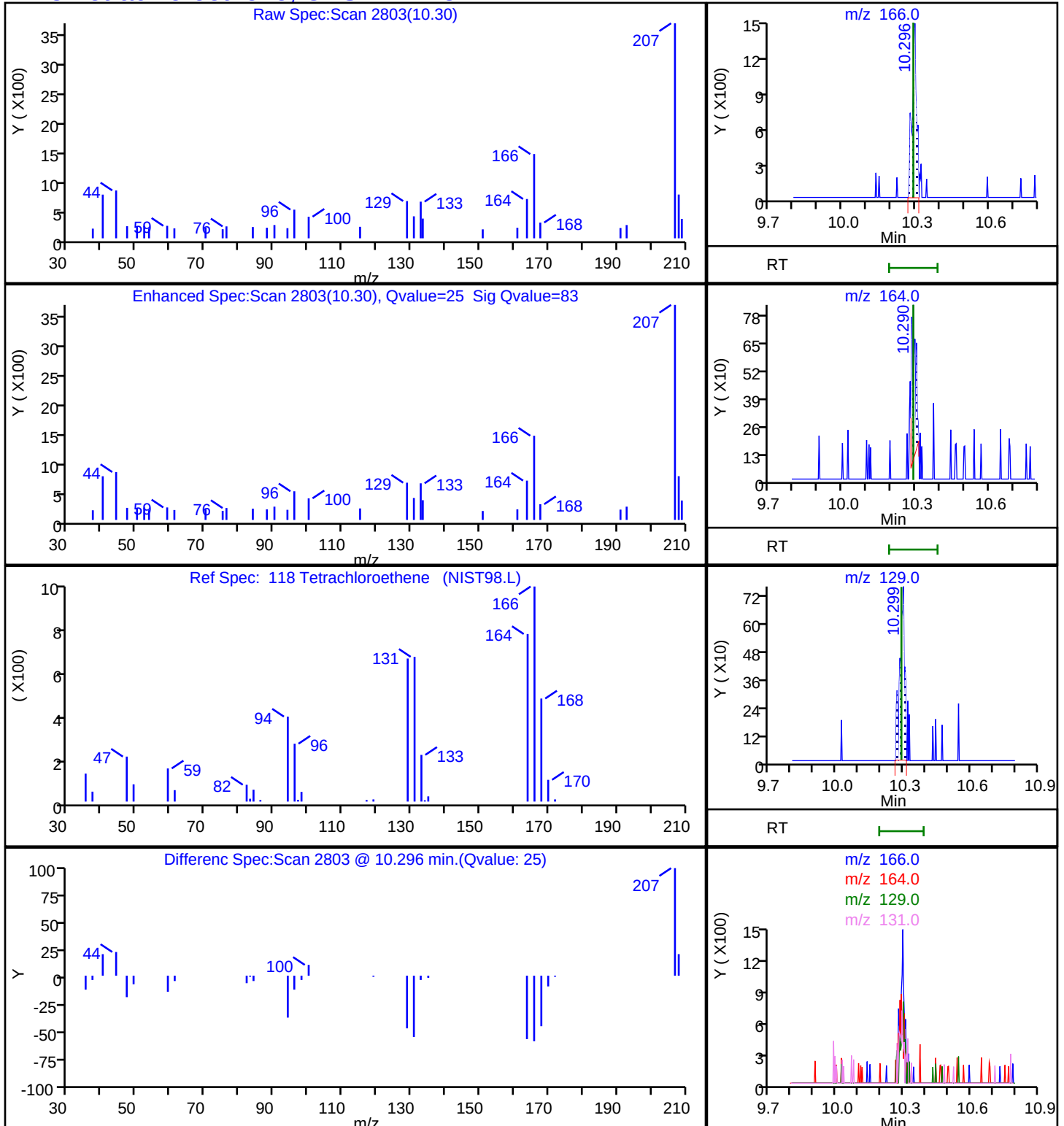
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

118 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X49.D

Injection Date: 09-Oct-2024 03:10:30

Instrument ID: 9915

Lims ID: 410-191048-A-7

Lab Sample ID: 410-191048-7

Client ID: HD-MW-69-0/1-0

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

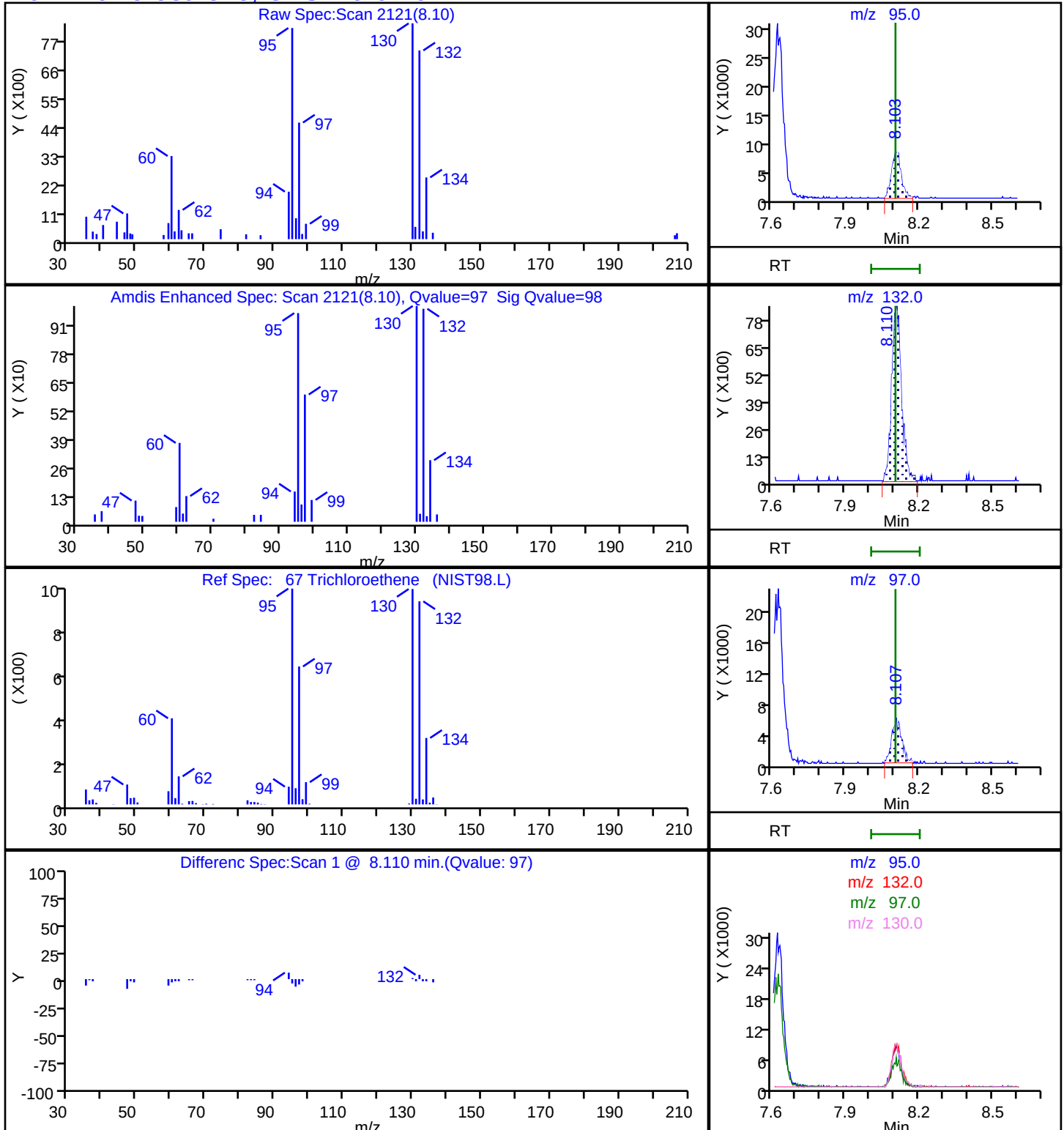
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) x 30 m

MS Quad

67 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-QC2-0/1-1

Lab Sample ID: 410-191048-8

Matrix: Water

Lab File ID: LC08X50.D

Analysis Method: 8260D

Date Collected: 10/03/2024 08:00

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 03:33

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND	^c cn	1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND	^c cn	10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	0.72	J	1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	Job No.: 410-191048-1
SDG No.:	
Client Sample ID: HD-QC2-0/1-1	Lab Sample ID: 410-191048-8
Matrix: Water	Lab File ID: LC08X50.D
Analysis Method: 8260D	Date Collected: 10/03/2024 08:00
Sample wt/vol: 5 (mL)	Date Analyzed: 10/09/2024 03:33
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: R-624SilMS 30m ID: 0.25 (mm)
Purge Volume: 5.0 (mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 560875	Units: ug/L
Preparation Batch No.:	Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X50.D
 Lims ID: 410-191048-A-8
 Client ID: HD-QC2-0/1-1
 Sample Type: Client
 Inject. Date: 09-Oct-2024 03:33:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-021
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 08:51:26 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 08:48:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.129				ND	7
7 Vinyl chloride	62		2.245				ND	
9 Bromomethane	94		2.579				ND	
10 Chloroethane	64		2.641				ND	
18 1,1-Dichloroethene	96		3.464				ND	7
19 Acetone	58		3.480				ND	
23 Carbon disulfide	76		3.756				ND	7
27 Methylene Chloride	84		4.100				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.136	4.139	-0.003	1	223924	250.0	
31 Methyl tert-butyl ether	73		4.499				ND	
32 trans-1,2-Dichloroethene	96		4.505				ND	
36 1,1-Dichloroethane	63		5.171				ND	
41 2-Butanone (MEK)	43		5.988				ND	7
42 cis-1,2-Dichloroethene	96		6.013				ND	
49 Chlorobromomethane	128		6.348				ND	
51 Chloroform	83		6.502				ND	7
\$ 52 Dibromofluoromethane (Surr)	113	6.727	6.718	0.009	93	247933	49.9	
53 1,1,1-Trichloroethane	97		6.737				ND	
55 Carbon tetrachloride	117		6.952				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.180	7.171	0.009	83	63048	52.5	
59 Benzene	78		7.216				ND	7
60 1,2-Dichloroethane	62		7.280				ND	
* 63 Fluorobenzene (IS)	96	7.627	7.621	0.006	99	991227	50.0	
67 Trichloroethene	95		8.103				ND	7
70 1,2-Dichloropropane	63		8.431				ND	
76 Dichlorobromomethane	83		8.779				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.515				ND	7
\$ 82 Toluene-d8 (Surr)	98	9.656	9.653	0.003	93	921635	50.2	
90 Toluene	92	9.740	9.727	0.013	14	1586	0.1389	
95 trans-1,3-Dichloropropene	75		9.988				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166	10.296	10.290	0.006	90	3478	0.7211	
121 2-Hexanone	43		10.415				ND	7
123 Chlorodibromomethane	129		10.573				ND	
124 Ethylene Dibromide	107		10.682				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.126	11.123	0.004	88	724692	50.0	
128 Chlorobenzene	112		11.151				ND	
131 1,1,1,2-Tetrachloroethane	131		11.229				ND	
132 Ethylbenzene	91		11.238				ND	7
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	7
136 o-Xylene	106		11.685				ND	
137 Styrene	104		11.698				ND	
138 Bromoform	173		11.852				ND	
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	90	322916	44.5	
145 1,1,2,2-Tetrachloroethane	83		12.229				ND	7
* 161 1,4-Dichlorobenzene-d4	152	13.010	13.013	-0.003	95	410340	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

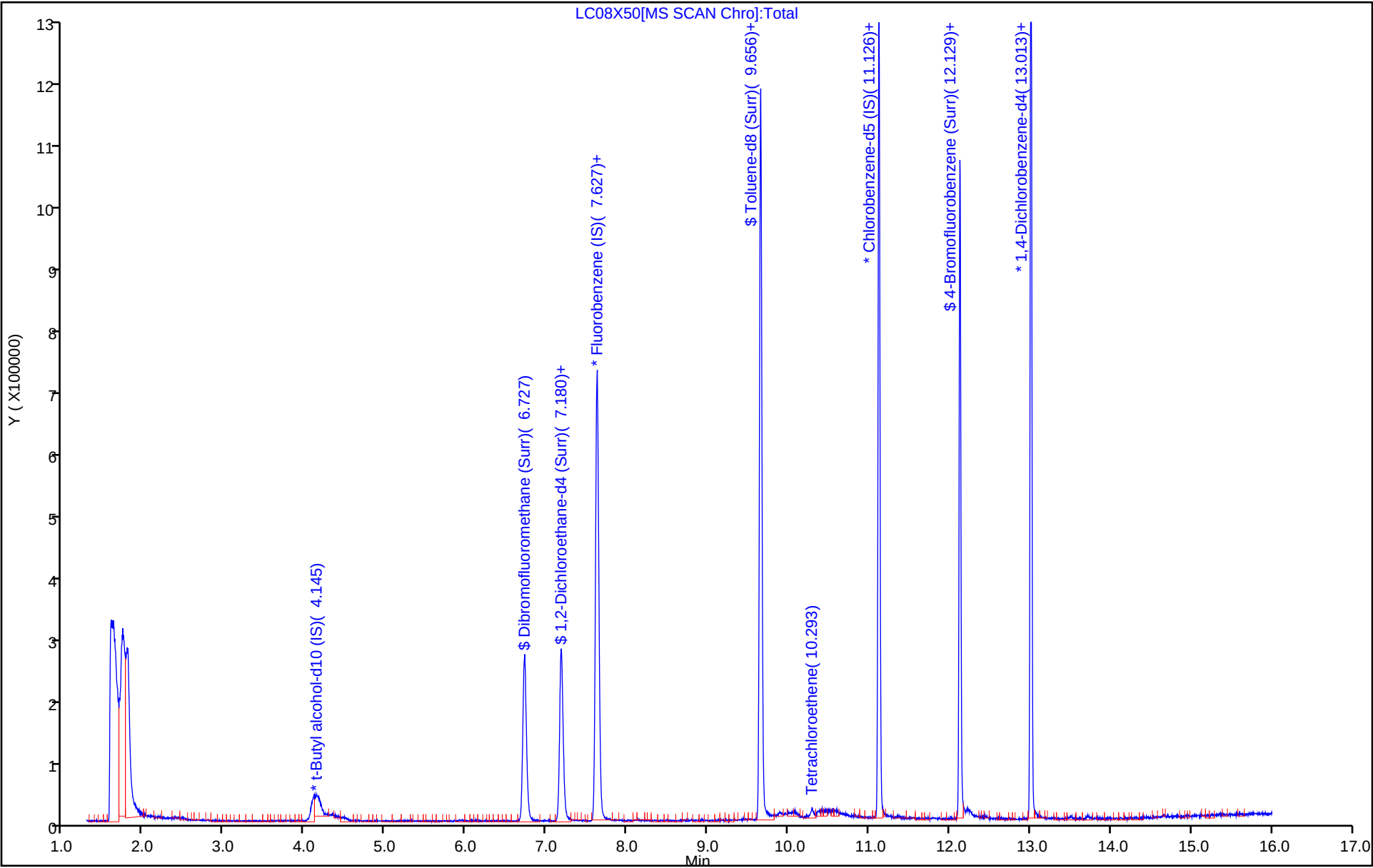
Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X50.D
Lims ID: 410-191048-A-8
Client ID: HD-QC2-0/1-1
Sample Type: Client
Inject. Date: 09-Oct-2024 03:33:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-021
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 08:51:26 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 08:48:43

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	49.9	99.75
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	52.5	104.95
\$ 82 Toluene-d8 (Surr)	50.0	50.2	100.41
\$ 142 4-Bromofluorobenzene (Surr)	50.0	44.5	89.02

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X50.D

Injection Date: 09-Oct-2024 03:33:30

Instrument ID: 9915

Lims ID: 410-191048-A-8

Lab Sample ID: 410-191048-8

Client ID: HD-QC2-0/1-1

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 5.000 mL

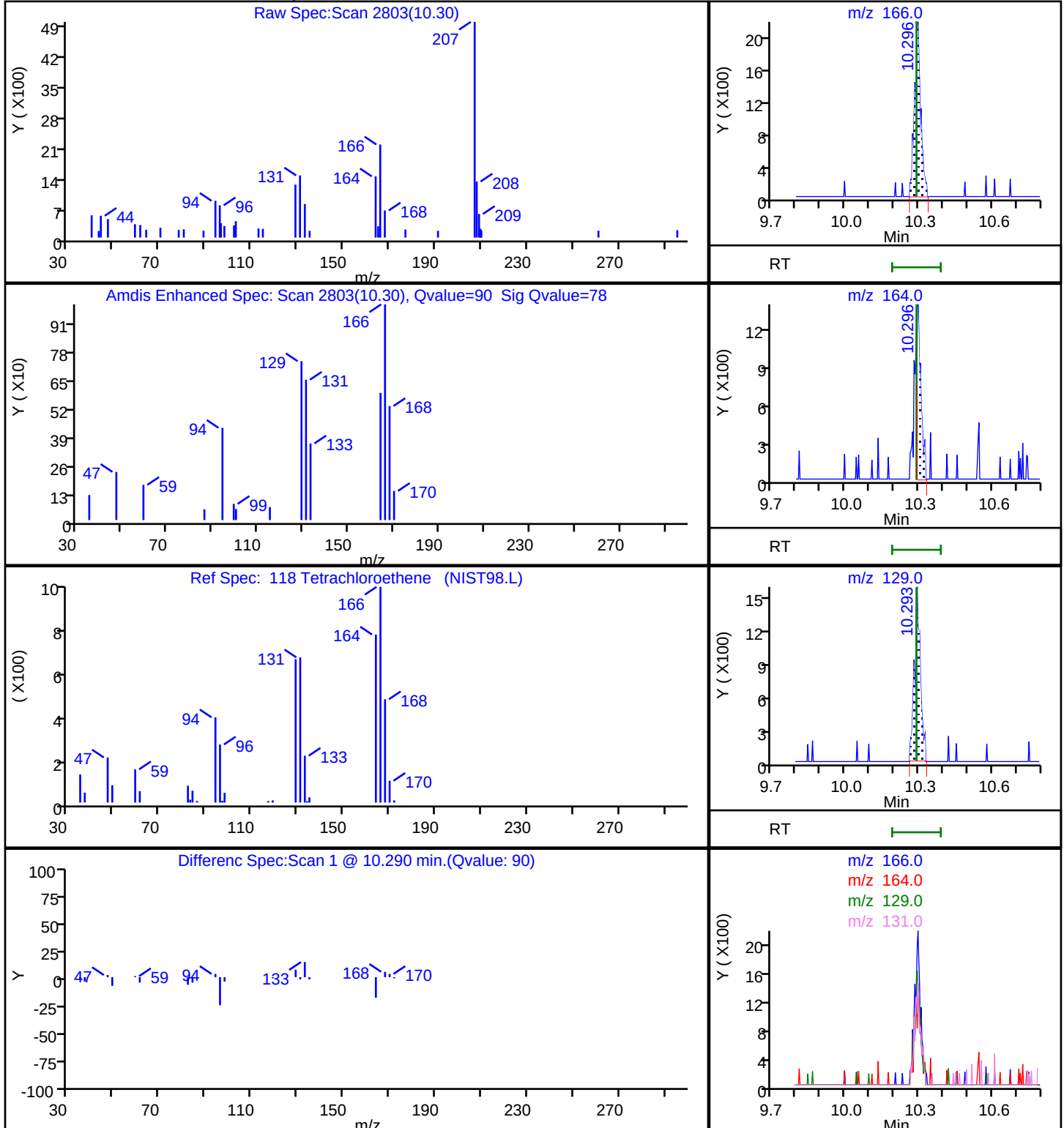
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 30m

MS Quad

118 Tetrachloroethene, CAS: 127-18-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-Cole Steel MW-12-0/1-0

Lab Sample ID: 410-191048-9

Matrix: Water

Lab File ID: LC08X51.D

Analysis Method: 8260D

Date Collected: 10/04/2024 09:43

Sample wt/vol: 5(mL)

Date Analyzed: 10/09/2024 03:55

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND	^c cn	1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND	^c cn	10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	16		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	0.85	J	1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-Cole Steel MW-12-0/1-0

Lab Sample ID: 410-191048-9

Matrix: Water

Lab File ID: LC08X51.D

Analysis Method: 8260D

Date Collected: 10/04/2024 09:43

Sample wt/vol: 5(mL)

Date Analyzed: 10/09/2024 03:55

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	14		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X51.D
 Lims ID: 410-191048-A-9
 Client ID: HD-Cole Steel MW-12-0/1-0
 Sample Type: Client
 Inject. Date: 09-Oct-2024 03:55:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-022
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 08:51:26 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 08:49:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.129				ND	
7 Vinyl chloride	62		2.245				ND	7
9 Bromomethane	94		2.579				ND	
10 Chloroethane	64		2.641				ND	7
18 1,1-Dichloroethene	96		3.464				ND	7
19 Acetone	58		3.480				ND	
23 Carbon disulfide	76		3.756				ND	7
27 Methylene Chloride	84		4.100				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.136	4.139	-0.003	1	226745	250.0	
31 Methyl tert-butyl ether	73		4.499				ND	
32 trans-1,2-Dichloroethene	96		4.505				ND	
36 1,1-Dichloroethane	63		5.171				ND	
41 2-Butanone (MEK)	43		5.988				ND	7
42 cis-1,2-Dichloroethene	96	6.020	6.013	0.007	80	86241	16.2	
49 Chlorobromomethane	128		6.348				ND	
51 Chloroform	83		6.502				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.714	6.718	-0.004	92	249686	50.4	
53 1,1,1-Trichloroethane	97		6.737				ND	
55 Carbon tetrachloride	117		6.952				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.171	7.171	0.000	83	61988	51.7	
59 Benzene	78		7.216				ND	7
60 1,2-Dichloroethane	62		7.280				ND	7
* 63 Fluorobenzene (IS)	96	7.621	7.621	0.000	99	988340	50.0	
67 Trichloroethene	95	8.113	8.103	0.010	98	69645	13.7	
70 1,2-Dichloropropane	63		8.431				ND	
76 Dichlorobromomethane	83		8.779				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	7
80 4-Methyl-2-pentanone (MIBK)	43		9.515				ND	7
\$ 82 Toluene-d8 (Surr)	98	9.653	9.653	0.000	94	928924	51.0	
90 Toluene	92		9.727				ND	
95 trans-1,3-Dichloropropene	75		9.988				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166	10.290	10.290	0.000	92	4082	0.8537	M
121 2-Hexanone	43		10.415				ND	
123 Chlorodibromomethane	129		10.573				ND	
124 Ethylene Dibromide	107		10.682				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.123	11.123	0.001	85	718419	50.0	
128 Chlorobenzene	112		11.151				ND	7
131 1,1,1,2-Tetrachloroethane	131		11.229				ND	
132 Ethylbenzene	91		11.238				ND	
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	
136 o-Xylene	106		11.685				ND	
137 Styrene	104		11.698				ND	
138 Bromoform	173		11.852				ND	
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	325451	45.3	
145 1,1,2,2-Tetrachloroethane	83		12.229				ND	7
* 161 1,4-Dichlorobenzene-d4	152	13.010	13.013	-0.003	94	427289	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X51.D

Injection Date: 09-Oct-2024 03:55:30

Instrument ID: 9915

Operator ID: gaw91131

Lims ID: 410-191048-A-9

Lab Sample ID: 410-191048-9

Worklist Smp#: 22

Client ID: HD-Cole Steel MW-12-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

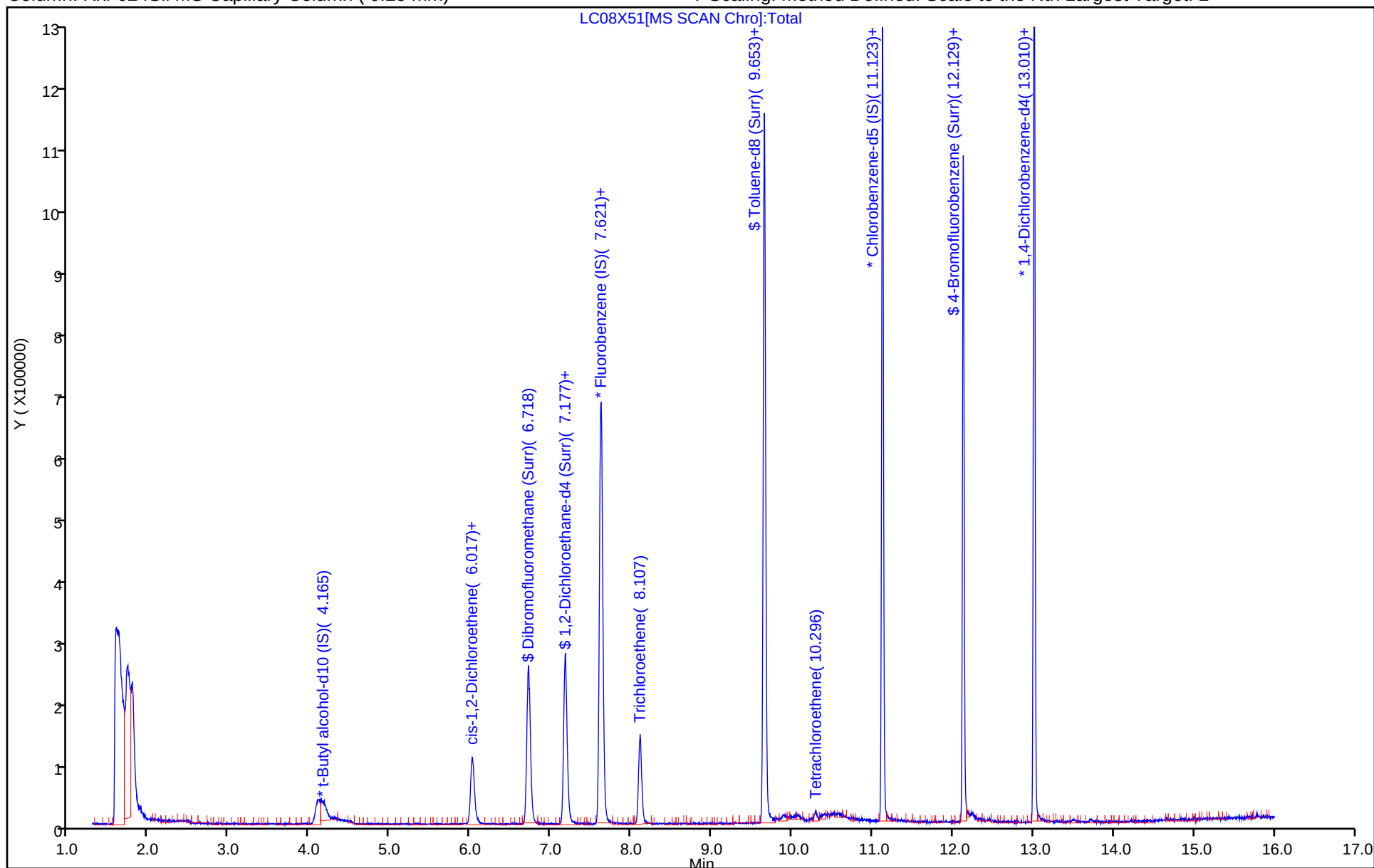
ALS Bottle#: 21

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X51.D
Lims ID: 410-191048-A-9
Client ID: HD-Cole Steel MW-12-0/1-0
Sample Type: Client
Inject. Date: 09-Oct-2024 03:55:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-022
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 08:51:26 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 08:49:25

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	50.4	100.75
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	51.7	103.49
\$ 82 Toluene-d8 (Surr)	50.0	51.0	102.09
\$ 142 4-Bromofluorobenzene (Surr)	50.0	45.3	90.51

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X51.D

Injection Date: 09-Oct-2024 03:55:30

Instrument ID: 9915

Lims ID: 410-191048-A-9

Lab Sample ID: 410-191048-9

Client ID: HD-Cole Steel MW-12-0/1-0

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 5.000 mL

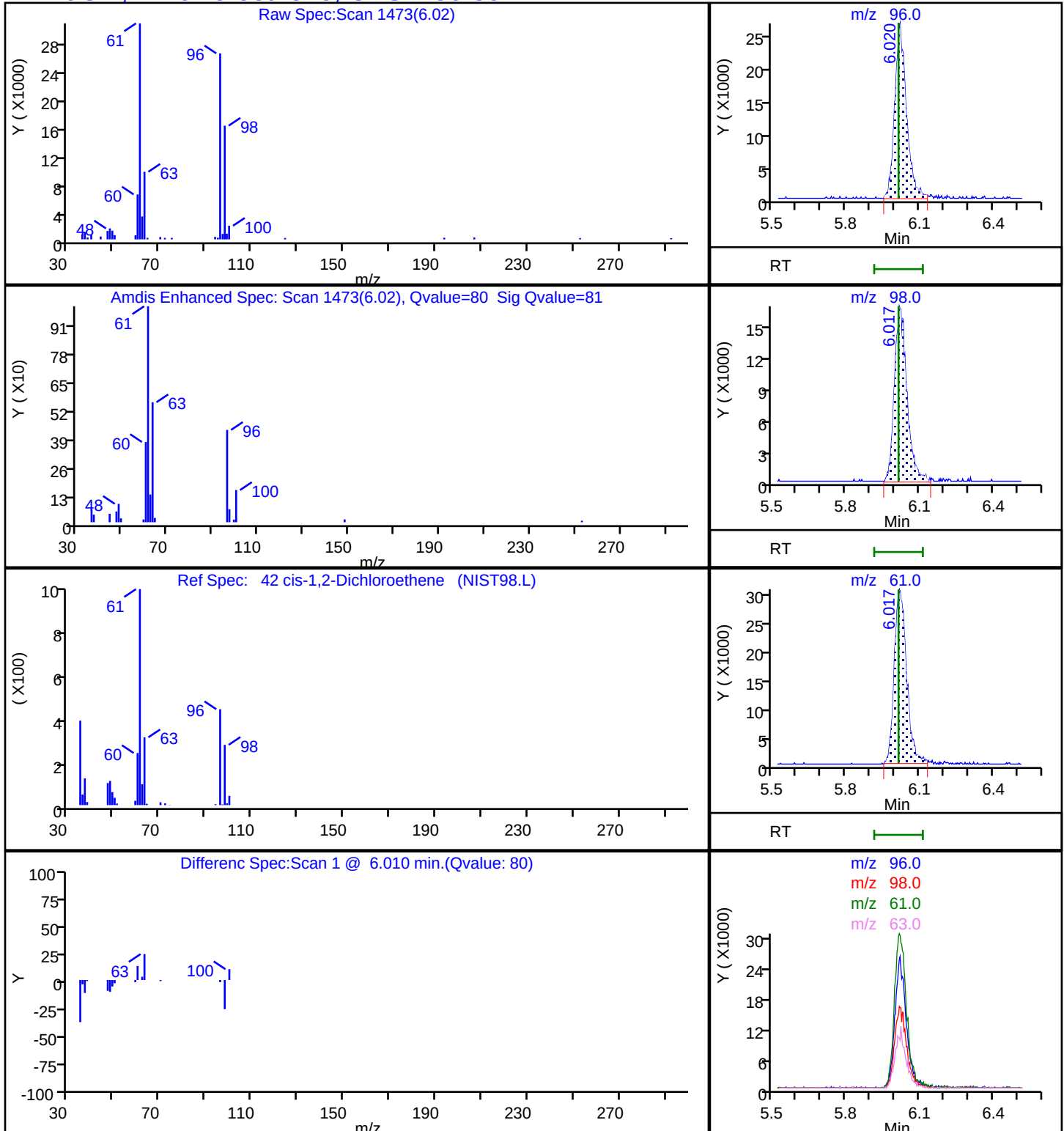
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) x 30 m

MS Quad

42 cis-1,2-Dichloroethene, CAS: 156-59-2

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X51.D

Injection Date: 09-Oct-2024 03:55:30

Instrument ID: 9915

Lims ID: 410-191048-A-9

Lab Sample ID: 410-191048-9

Client ID: HD-Cole Steel MW-12-0/1-0

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 5.000 mL

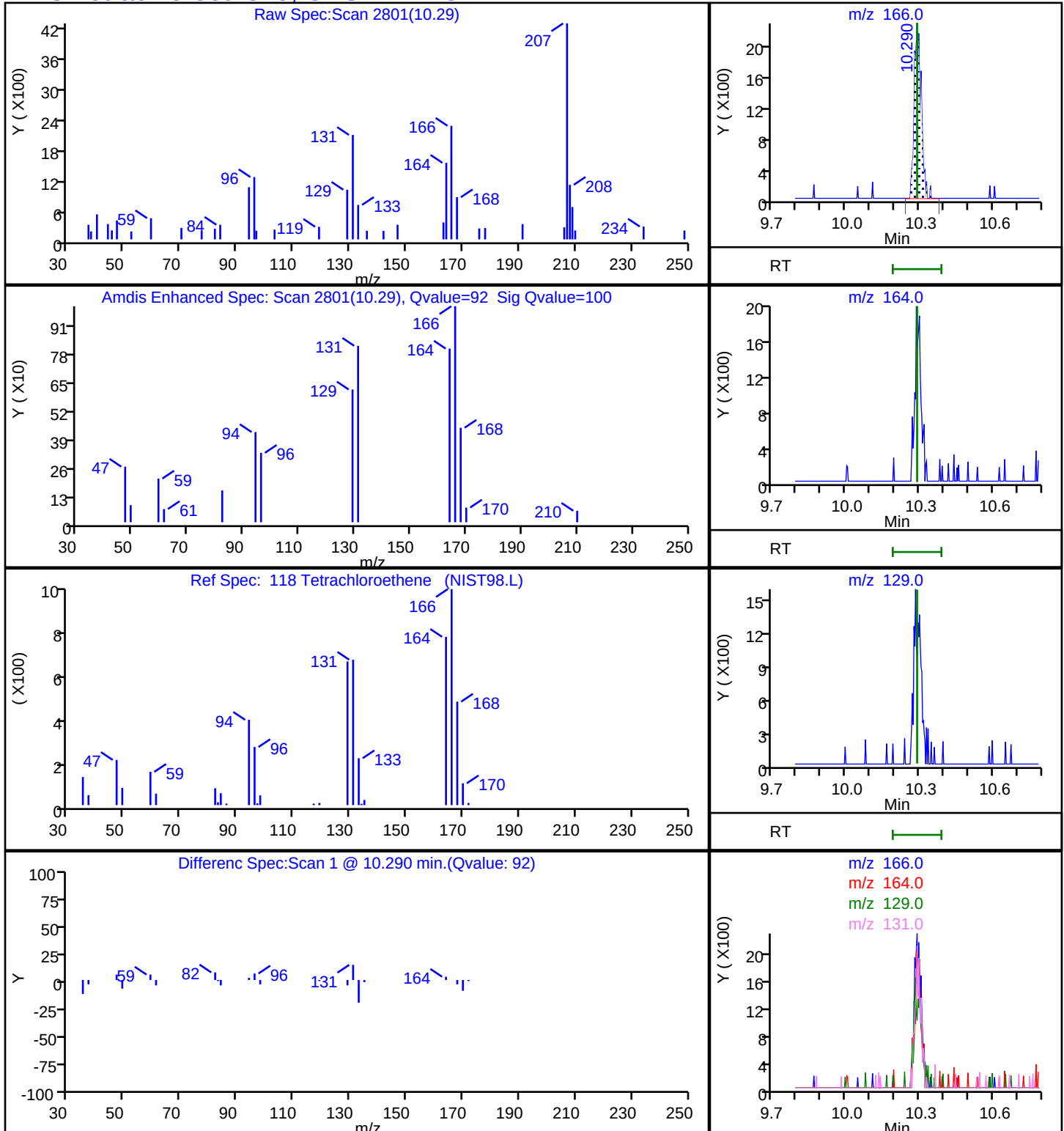
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

118 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X51.D

Injection Date: 09-Oct-2024 03:55:30

Instrument ID: 9915

Lims ID: 410-191048-A-9

Lab Sample ID: 410-191048-9

Client ID: HD-Cole Steel MW-12-0/1-0

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 5.000 mL

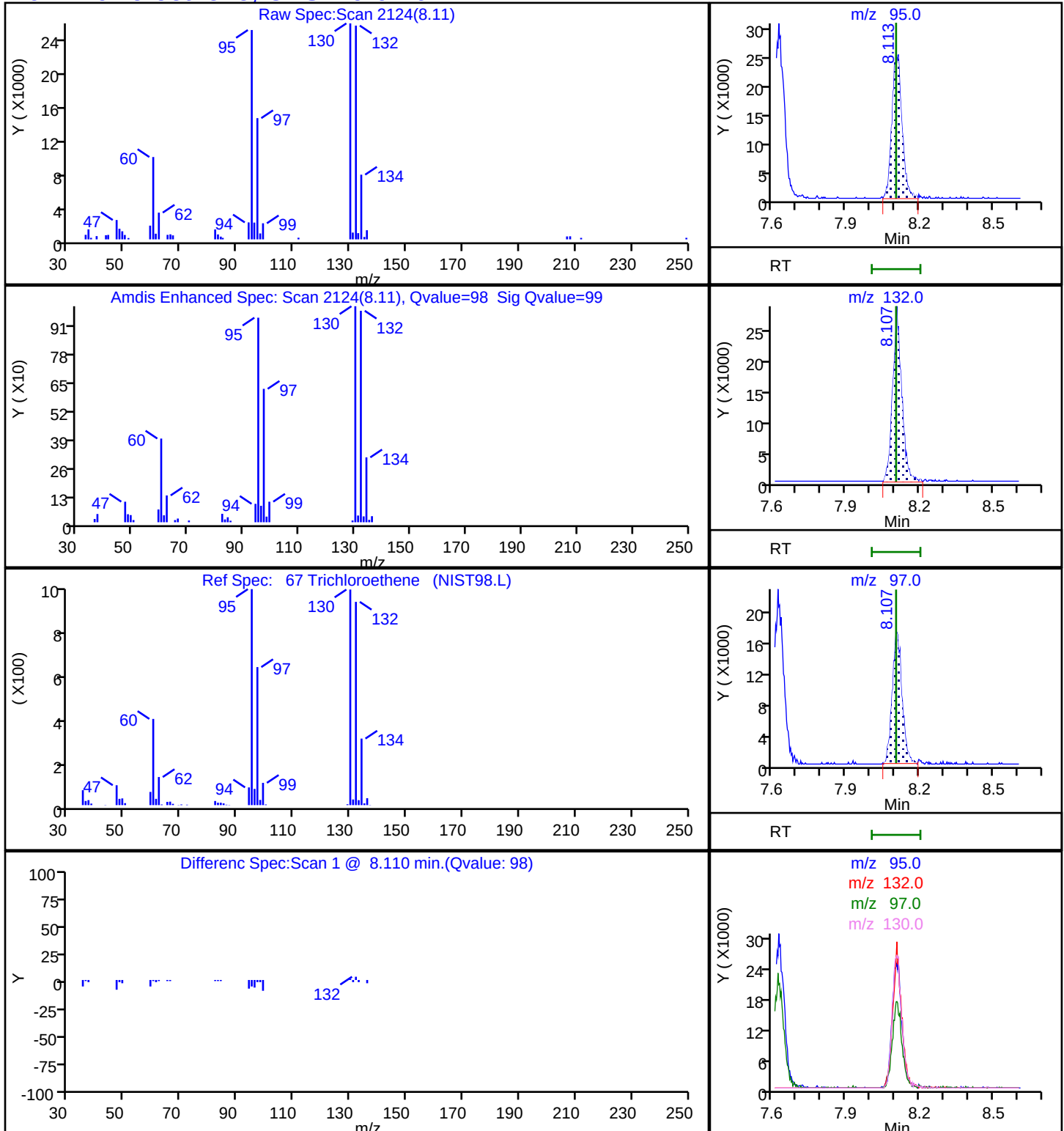
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.)

MS Quad

67 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

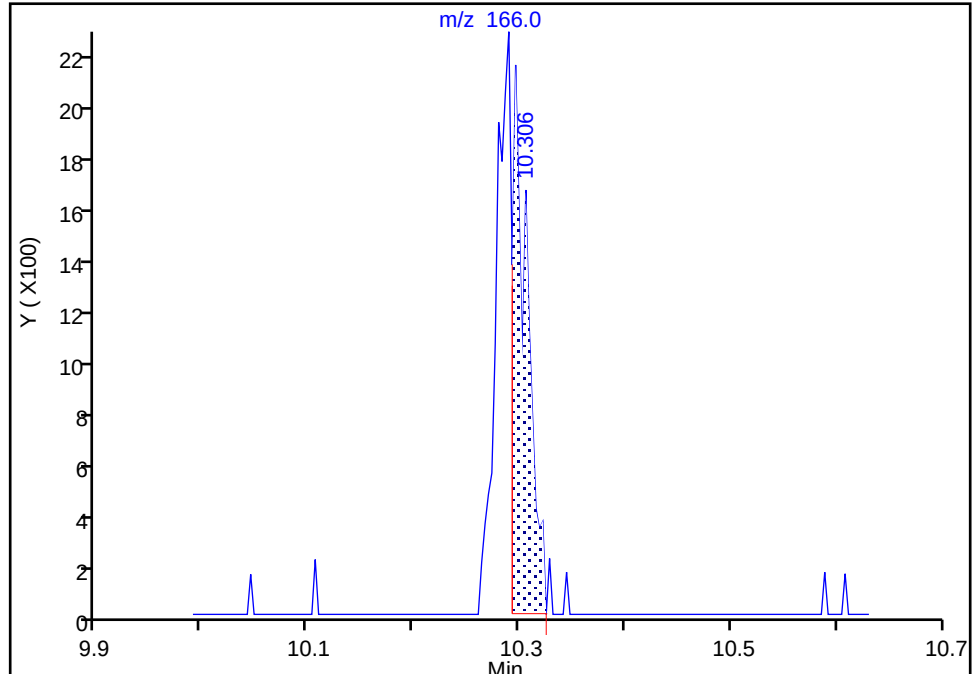
Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X51.D
Injection Date: 09-Oct-2024 03:55:30 Instrument ID: 9915
Lims ID: 410-191048-A-9 Lab Sample ID: 410-191048-9
Client ID: HD-Cole Steel MW-12-0/1-0
Operator ID: gaw91131 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

118 Tetrachloroethene, CAS: 127-18-4

Signal: 1

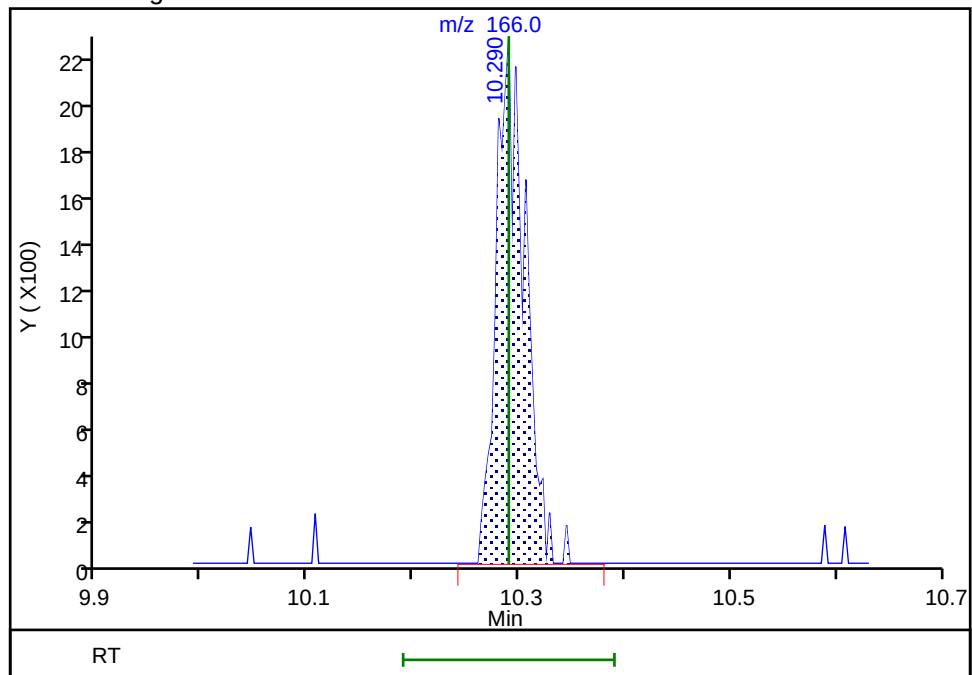
RT: 10.31
Area: 2018
Amount: 0.422058
Amount Units: ug/l

Processing Integration Results



RT: 10.29
Area: 4082
Amount: 0.853736
Amount Units: ug/l

Manual Integration Results



Reviewer: TQ4J, 09-Oct-2024 08:49:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-MW-165-0/1-0

Lab Sample ID: 410-191048-10

Matrix: Water

Lab File ID: LC08X52.D

Analysis Method: 8260D

Date Collected: 10/04/2024 10:05

Sample wt/vol: 5(mL)

Date Analyzed: 10/09/2024 04:18

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND	^c cn	1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND	^c cn	10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	2.6		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-MW-165-0/1-0 Lab Sample ID: 410-191048-10

Matrix: Water Lab File ID: LC08X52.D

Analysis Method: 8260D Date Collected: 10/04/2024 10:05

Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2024 04:18

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 560875 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	0.75	J	1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X52.D
 Lims ID: 410-191048-A-10
 Client ID: HD-MW-165-0/1-0
 Sample Type: Client
 Inject. Date: 09-Oct-2024 04:18:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-023
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 08:51:26 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 08:50:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.129				ND	
7 Vinyl chloride	62		2.245				ND	
9 Bromomethane	94		2.579				ND	
10 Chloroethane	64		2.641				ND	
18 1,1-Dichloroethene	96		3.464				ND	
19 Acetone	58		3.480				ND	
23 Carbon disulfide	76		3.756				ND	7
27 Methylene Chloride	84		4.100				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.119	4.139	-0.020	1	235181	250.0	
31 Methyl tert-butyl ether	73		4.499				ND	7
32 trans-1,2-Dichloroethene	96		4.505				ND	
36 1,1-Dichloroethane	63		5.171				ND	
41 2-Butanone (MEK)	43		5.988				ND	7
42 cis-1,2-Dichloroethene	96		6.013				ND	7
49 Chlorobromomethane	128		6.348				ND	
51 Chloroform	83		6.502				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.717	6.718	-0.001	93	257579	49.7	
53 1,1,1-Trichloroethane	97		6.737				ND	
55 Carbon tetrachloride	117		6.952				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.171	0.006	82	65092	52.0	
59 Benzene	78		7.216				ND	
60 1,2-Dichloroethane	62		7.280				ND	
* 63 Fluorobenzene (IS)	96	7.621	7.621	0.000	99	1032488	50.0	
67 Trichloroethene	95	8.113	8.103	0.010	91	3980	0.7492	
70 1,2-Dichloropropane	63		8.431				ND	
76 Dichlorobromomethane	83		8.779				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	7
80 4-Methyl-2-pentanone (MIBK)	43		9.515				ND	
\$ 82 Toluene-d8 (Surr)	98	9.653	9.653	0.000	93	969060	50.8	
90 Toluene	92		9.727				ND	
95 trans-1,3-Dichloropropene	75		9.988				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166	10.296	10.290	0.006	95	12867	2.57	
121 2-Hexanone	43		10.415				ND	
123 Chlorodibromomethane	129		10.573				ND	
124 Ethylene Dibromide	107		10.682				ND	7
* 125 Chlorobenzene-d5 (IS)	117	11.122	11.123	0.000	86	752953	50.0	
128 Chlorobenzene	112		11.151				ND	
131 1,1,1,2-Tetrachloroethane	131		11.229				ND	
132 Ethylbenzene	91		11.238				ND	7
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	
136 o-Xylene	106		11.685				ND	
137 Styrene	104		11.698				ND	
138 Bromoform	173		11.852				ND	7
\$ 142 4-Bromofluorobenzene (Surr)	95	12.125	12.129	-0.004	92	336303	44.6	
145 1,1,2,2-Tetrachloroethane	83		12.229				ND	
* 161 1,4-Dichlorobenzene-d4	152	13.010	13.013	-0.003	95	438893	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

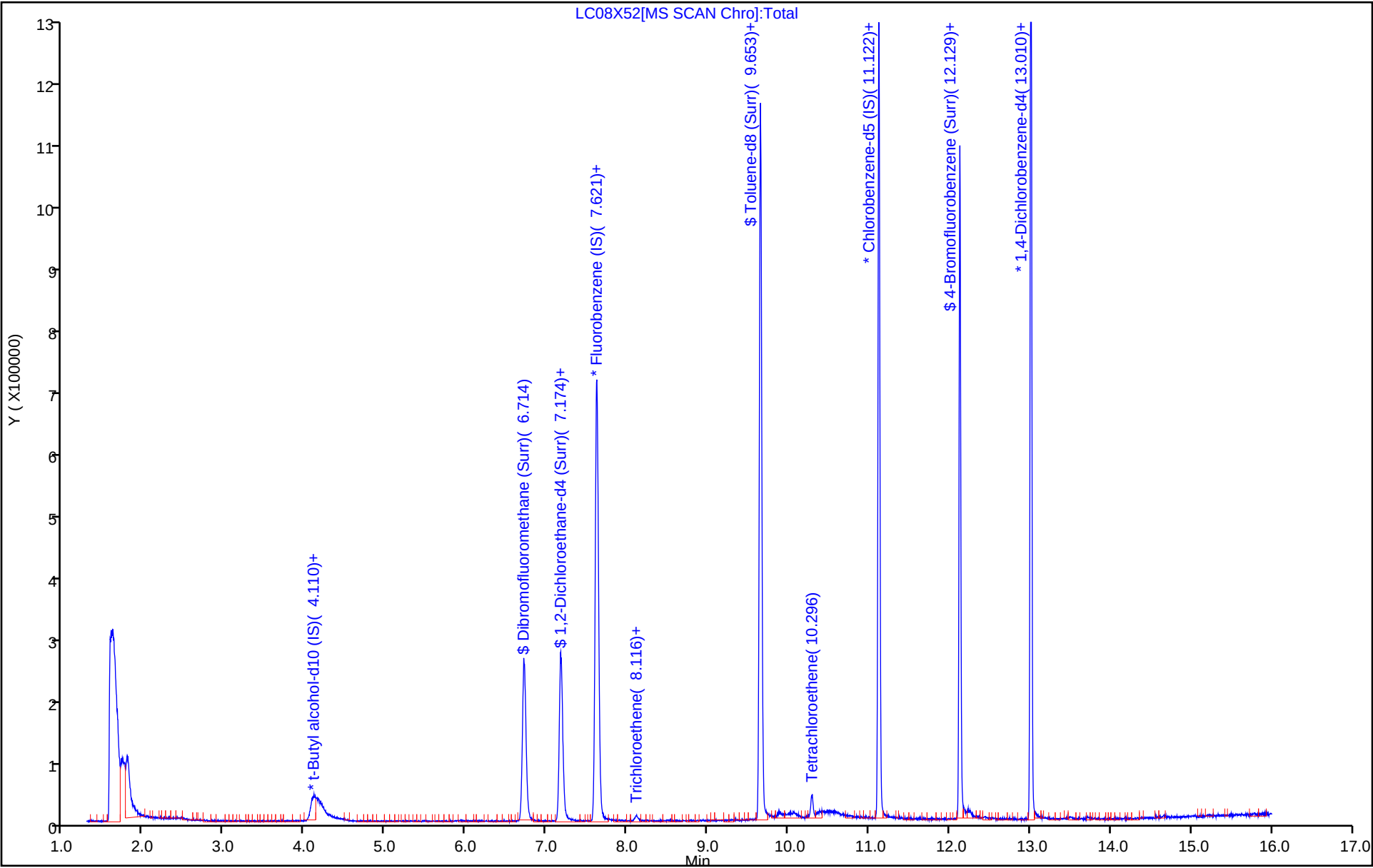
Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X52.D
Lims ID: 410-191048-A-10
Client ID: HD-MW-165-0/1-0
Sample Type: Client
Inject. Date: 09-Oct-2024 04:18:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-023
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 08:51:26 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 08:50:02

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	49.7	99.49
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	52.0	104.02
\$ 82 Toluene-d8 (Surr)	50.0	50.8	101.61
\$ 142 4-Bromofluorobenzene (Surr)	50.0	44.6	89.23

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X52.D

Injection Date: 09-Oct-2024 04:18:30

Instrument ID: 9915

Lims ID: 410-191048-A-10

Lab Sample ID: 410-191048-10

Client ID: HD-MW-165-0/1-0

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 5.000 mL

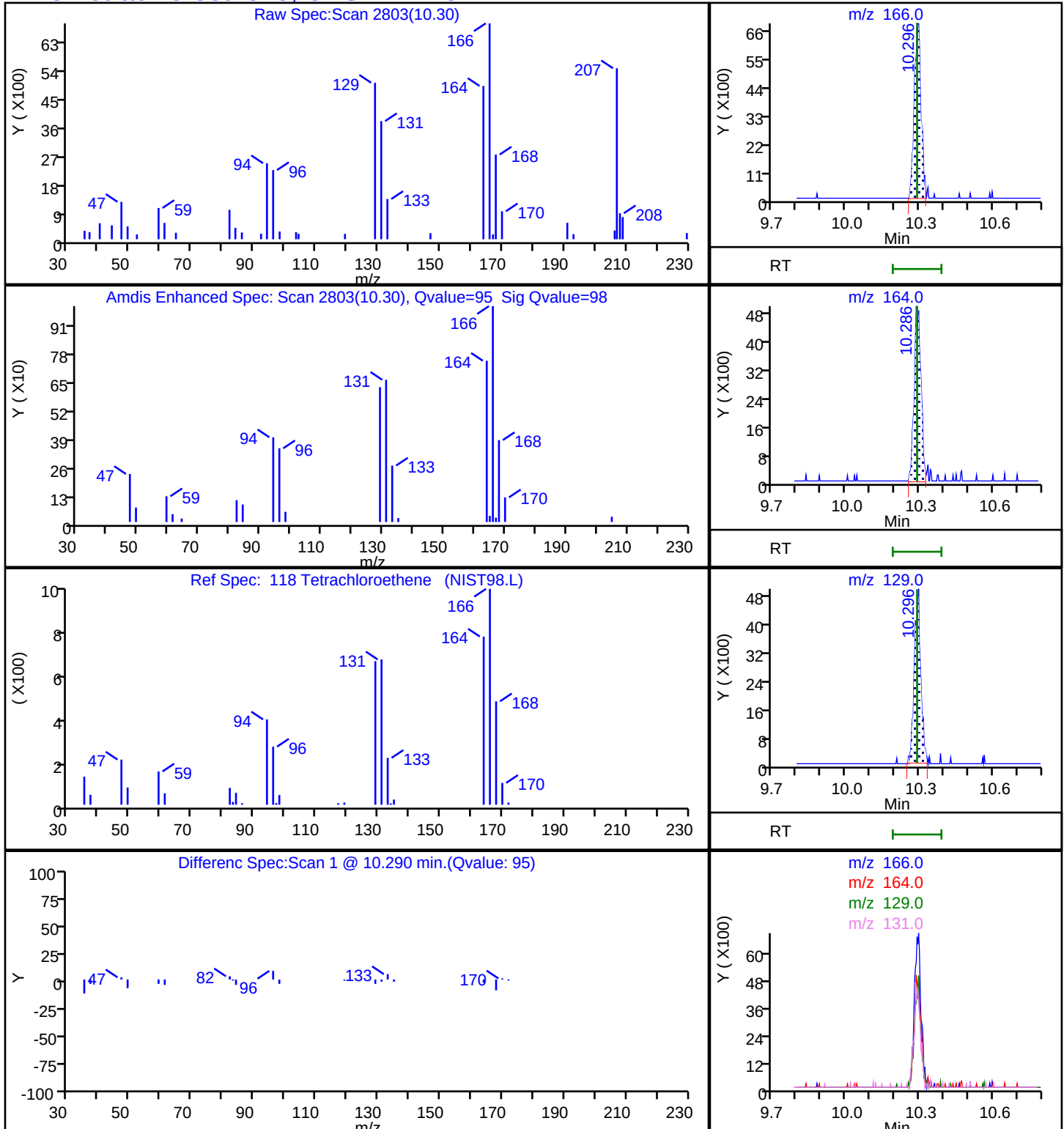
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

118 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X52.D

Injection Date: 09-Oct-2024 04:18:30

Instrument ID: 9915

Lims ID: 410-191048-A-10

Lab Sample ID: 410-191048-10

Client ID: HD-MW-165-0/1-0

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 5.000 mL

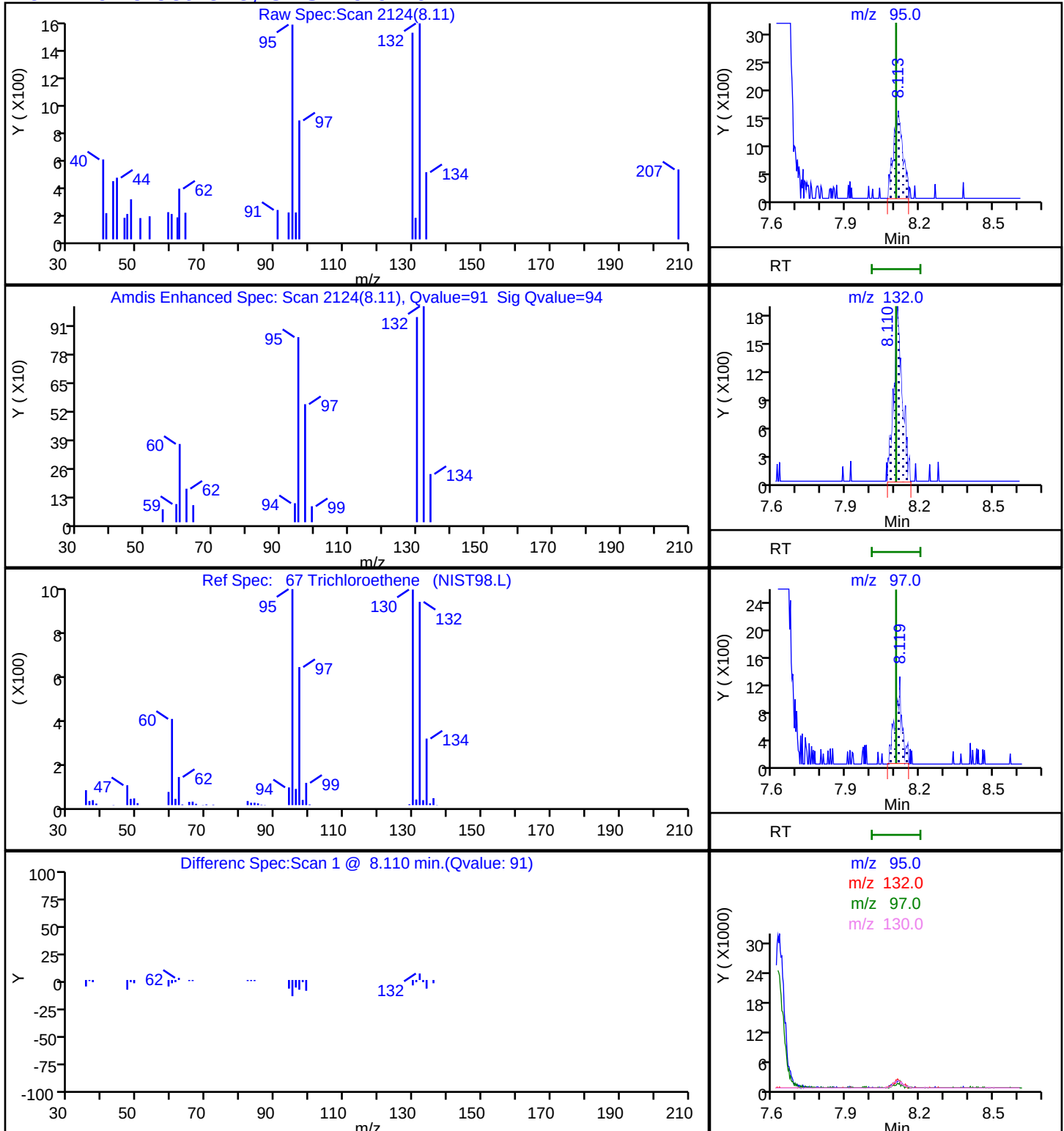
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) x 150 m

MS Quad

67 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-FOLK (RW-4)-0/1-0

Lab Sample ID: 410-191048-11

Matrix: Water

Lab File ID: LC08X53.D

Analysis Method: 8260D

Date Collected: 10/04/2024 11:30

Sample wt/vol: 5(mL)

Date Analyzed: 10/09/2024 04:40

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND	^c cn	1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND	^c cn	10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-FOLK (RW-4)-0/1-0

Lab Sample ID: 410-191048-11

Matrix: Water

Lab File ID: LC08X53.D

Analysis Method: 8260D

Date Collected: 10/04/2024 11:30

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 04:40

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X53.D
 Lims ID: 410-191048-A-11
 Client ID: HD-FOLK (RW-4)-0/1-0
 Sample Type: Client
 Inject. Date: 09-Oct-2024 04:40:30 ALS Bottle#: 23 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-024
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 08:51:26 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 08:50:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.129				ND	7
7 Vinyl chloride	62		2.245				ND	7
9 Bromomethane	94		2.579				ND	
10 Chloroethane	64		2.641				ND	
18 1,1-Dichloroethene	96		3.464				ND	
19 Acetone	58		3.480				ND	
23 Carbon disulfide	76		3.756				ND	7
27 Methylene Chloride	84		4.100				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.177	4.139	0.038	1	235873	250.0	
31 Methyl tert-butyl ether	73		4.499				ND	7
32 trans-1,2-Dichloroethene	96		4.505				ND	
36 1,1-Dichloroethane	63		5.171				ND	
41 2-Butanone (MEK)	43		5.988				ND	
42 cis-1,2-Dichloroethene	96		6.013				ND	7
49 Chlorobromomethane	128		6.348				ND	
51 Chloroform	83		6.502				ND	7
\$ 52 Dibromofluoromethane (Surr)	113	6.724	6.718	0.006	93	259112	51.1	
53 1,1,1-Trichloroethane	97		6.737				ND	
55 Carbon tetrachloride	117		6.952				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.171	0.006	82	62414	51.0	
59 Benzene	78		7.216				ND	
60 1,2-Dichloroethane	62		7.280				ND	7
* 63 Fluorobenzene (IS)	96	7.624	7.621	0.003	99	1010593	50.0	
67 Trichloroethene	95		8.103				ND	
70 1,2-Dichloropropane	63		8.431				ND	7
76 Dichlorobromomethane	83		8.779				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	7
80 4-Methyl-2-pentanone (MIBK)	43		9.515				ND	7
\$ 82 Toluene-d8 (Surr)	98	9.656	9.653	0.003	93	942373	50.3	
90 Toluene	92		9.727				ND	7
95 trans-1,3-Dichloropropene	75		9.988				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166		10.290				ND	
121 2-Hexanone	43		10.415				ND	7
123 Chlorodibromomethane	129		10.573				ND	
124 Ethylene Dibromide	107		10.682				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.126	11.123	0.004	85	739517	50.0	
128 Chlorobenzene	112		11.151				ND	7
131 1,1,1,2-Tetrachloroethane	131		11.229				ND	
132 Ethylbenzene	91		11.238				ND	7
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	
136 o-Xylene	106		11.685				ND	
137 Styrene	104		11.698				ND	
138 Bromoform	173		11.852				ND	7
\$ 142 4-Bromofluorobenzene (Surr)	95	12.132	12.129	0.003	90	329877	44.6	
145 1,1,2,2-Tetrachloroethane	83		12.229				ND	
* 161 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	433966	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

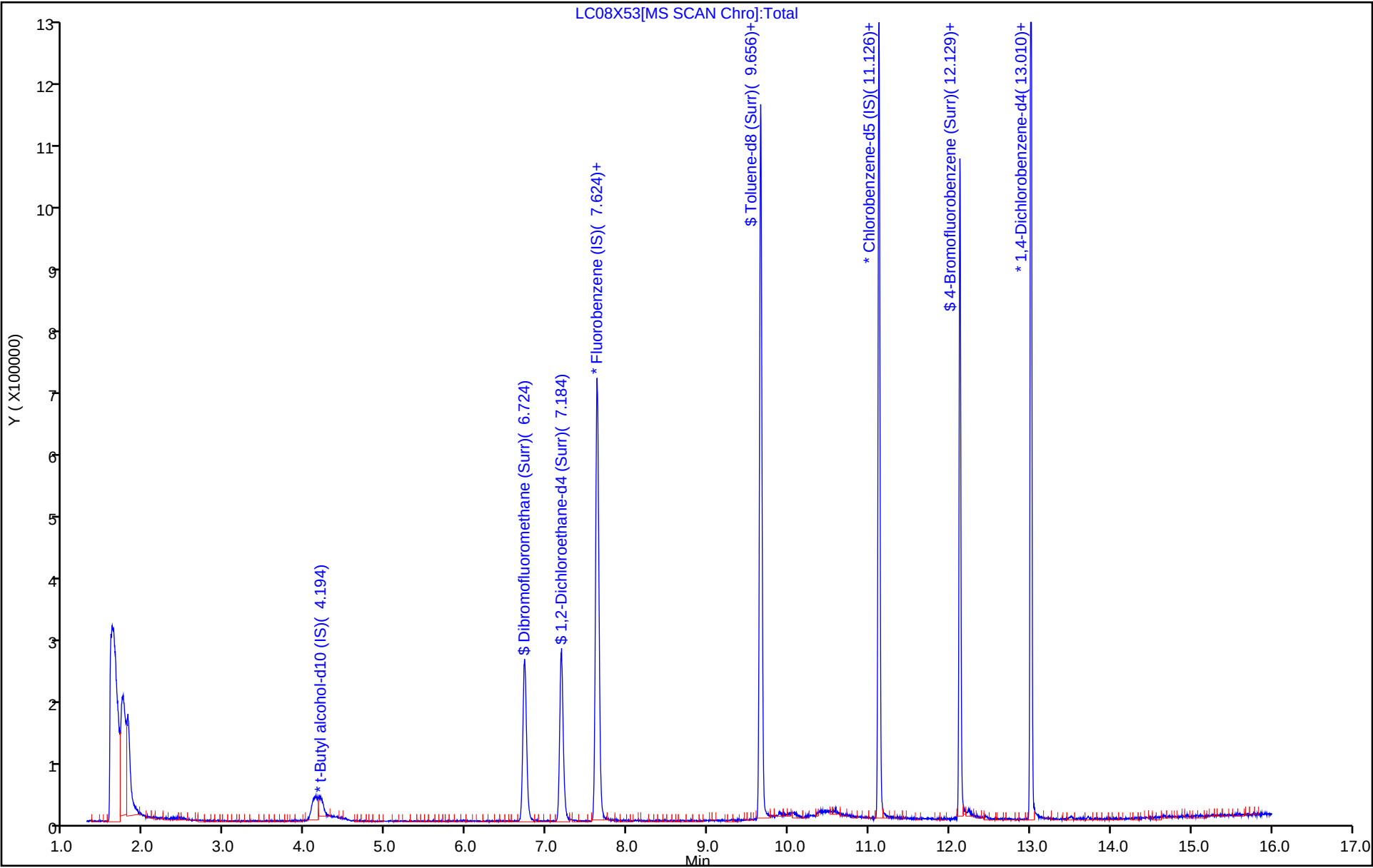
Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X53.D
Lims ID: 410-191048-A-11
Client ID: HD-FOLK (RW-4)-0/1-0
Sample Type: Client
Inject. Date: 09-Oct-2024 04:40:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-024
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 08:51:26 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 08:50:50

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	51.1	102.25
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	51.0	101.90
\$ 82 Toluene-d8 (Surr)	50.0	50.3	100.61
\$ 142 4-Bromofluorobenzene (Surr)	50.0	44.6	89.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-MW-43D-0/1-0

Lab Sample ID: 410-191048-12

Matrix: Water

Lab File ID: LC08X54.D

Analysis Method: 8260D

Date Collected: 10/04/2024 10:20

Sample wt/vol: 5(mL)

Date Analyzed: 10/09/2024 05:03

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND	^c cn	1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND	^c cn	10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	3.3		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	4.9		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-MW-43D-0/1-0

Lab Sample ID: 410-191048-12

Matrix: Water

Lab File ID: LC08X54.D

Analysis Method: 8260D

Date Collected: 10/04/2024 10:20

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 05:03

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	1.6		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X54.D
 Lims ID: 410-191048-A-12
 Client ID: HD-MW-43D-0/1-0
 Sample Type: Client
 Inject. Date: 09-Oct-2024 05:03:30 ALS Bottle#: 24 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-025
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 13:49:37 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1603

First Level Reviewer: TQ4J

Date: 09-Oct-2024 08:51:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.129				ND	7
7 Vinyl chloride	62		2.245				ND	7
9 Bromomethane	94		2.579				ND	
10 Chloroethane	64		2.641				ND	7
18 1,1-Dichloroethene	96		3.464				ND	7
19 Acetone	58		3.480				ND	
23 Carbon disulfide	76		3.756				ND	7
27 Methylene Chloride	84		4.100				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.136	4.139	-0.003	1	227322	250.0	
31 Methyl tert-butyl ether	73		4.499				ND	
32 trans-1,2-Dichloroethene	96		4.505				ND	7
36 1,1-Dichloroethane	63		5.171				ND	
41 2-Butanone (MEK)	43		5.988				ND	7
42 cis-1,2-Dichloroethene	96	6.033	6.013	0.020	80	18131	3.28	
49 Chlorobromomethane	128		6.348				ND	
51 Chloroform	83		6.502				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.727	6.718	0.009	93	260026	50.5	
53 1,1,1-Trichloroethane	97		6.737				ND	
55 Carbon tetrachloride	117		6.952				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.180	7.171	0.009	84	65239	52.5	
59 Benzene	78		7.216				ND	7
60 1,2-Dichloroethane	62		7.280				ND	7
* 63 Fluorobenzene (IS)	96	7.627	7.621	0.006	99	1026126	50.0	
67 Trichloroethene	95	8.110	8.103	0.007	97	8627	1.63	
70 1,2-Dichloropropane	63		8.431				ND	7
76 Dichlorobromomethane	83		8.779				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.515				ND	
\$ 82 Toluene-d8 (Surr)	98	9.656	9.653	0.003	93	963033	51.2	
90 Toluene	92		9.727				ND	
95 trans-1,3-Dichloropropene	75		9.988				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166	10.293	10.290	0.003	96	24342	4.92	
121 2-Hexanone	43		10.415				ND	7
123 Chlorodibromomethane	129		10.573				ND	
124 Ethylene Dibromide	107		10.682				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.122	11.123	0.000	85	742747	50.0	
128 Chlorobenzene	112		11.151				ND	
131 1,1,1,2-Tetrachloroethane	131		11.229				ND	
132 Ethylbenzene	91		11.238				ND	7
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	
136 o-Xylene	106		11.685				ND	
137 Styrene	104		11.698				ND	
138 Bromoform	173		11.852				ND	7
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	90	329705	44.3	
145 1,1,2,2-Tetrachloroethane	83		12.229				ND	7
* 161 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	434273	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X54.D

Injection Date: 09-Oct-2024 05:03:30

Instrument ID: 9915

Operator ID: gaw91131

Lims ID: 410-191048-A-12

Lab Sample ID: 410-191048-12

Worklist Smp#: 25

Client ID: HD-MW-43D-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

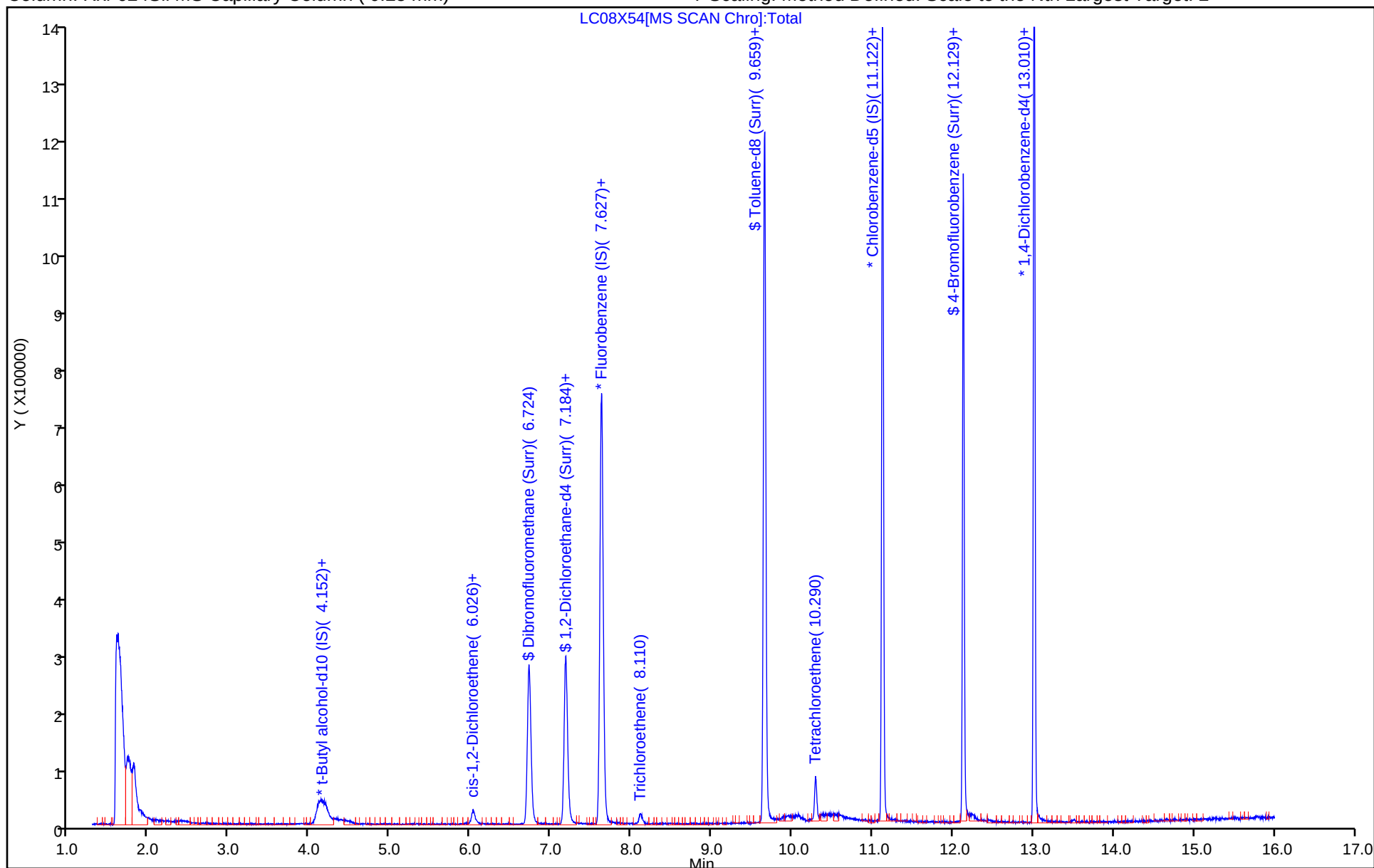
ALS Bottle#: 24

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X54.D
Lims ID: 410-191048-A-12
Client ID: HD-MW-43D-0/1-0
Sample Type: Client
Inject. Date: 09-Oct-2024 05:03:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-025
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 13:49:37 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1603

First Level Reviewer: TQ4J

Date: 09-Oct-2024 08:51:26

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	50.5	101.06
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	52.5	104.90
\$ 82 Toluene-d8 (Surr)	50.0	51.2	102.37
\$ 142 4-Bromofluorobenzene (Surr)	50.0	44.3	88.69

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X54.D

Injection Date: 09-Oct-2024 05:03:30

Instrument ID: 9915

Lims ID: 410-191048-A-12

Lab Sample ID: 410-191048-12

Client ID: HD-MW-43D-0/1-0

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 5.000 mL

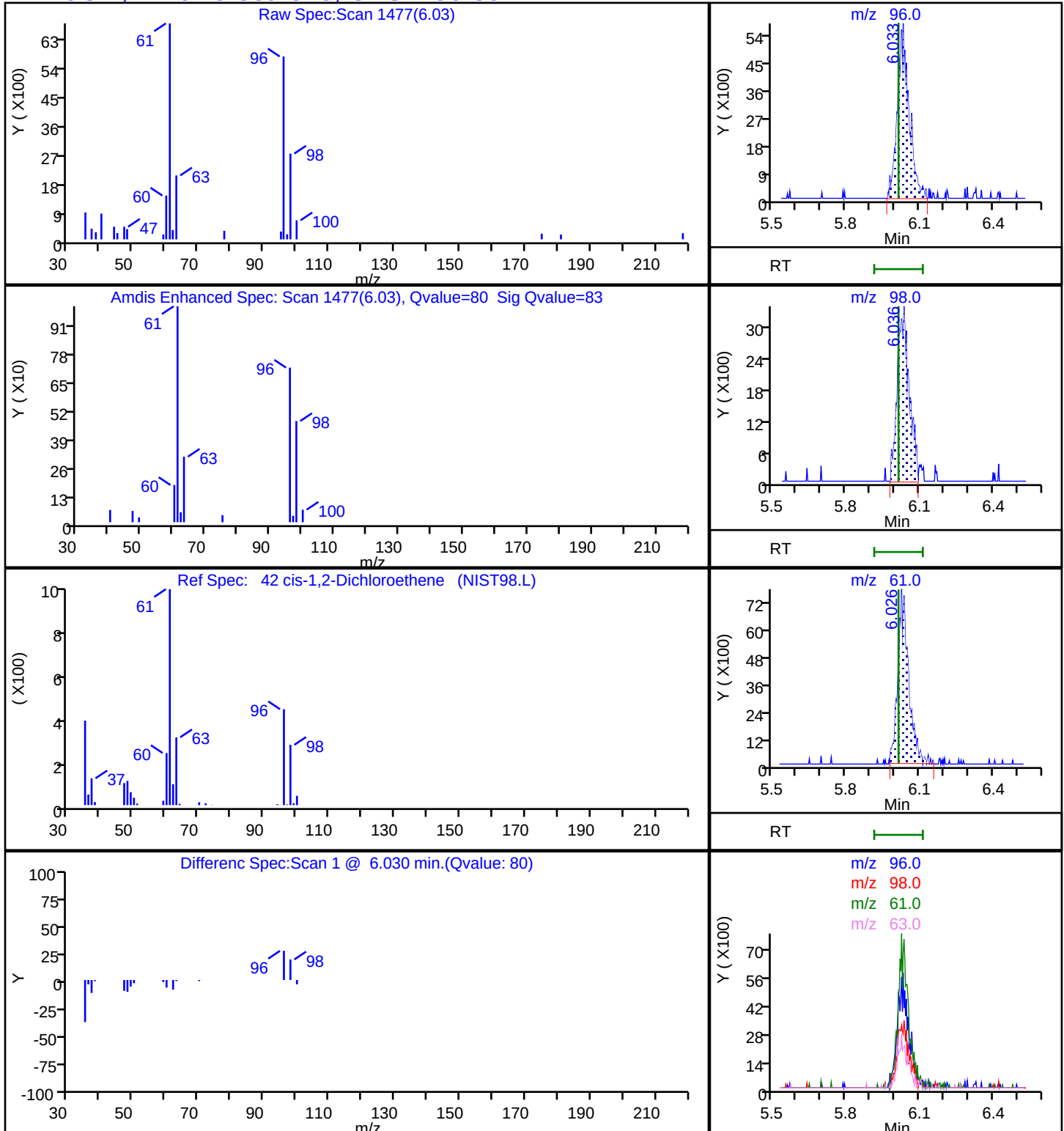
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

42 cis-1,2-Dichloroethene, CAS: 156-59-2

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X54.D

Injection Date: 09-Oct-2024 05:03:30

Instrument ID: 9915

Lims ID: 410-191048-A-12

Lab Sample ID: 410-191048-12

Client ID: HD-MW-43D-0/1-0

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 5.000 mL

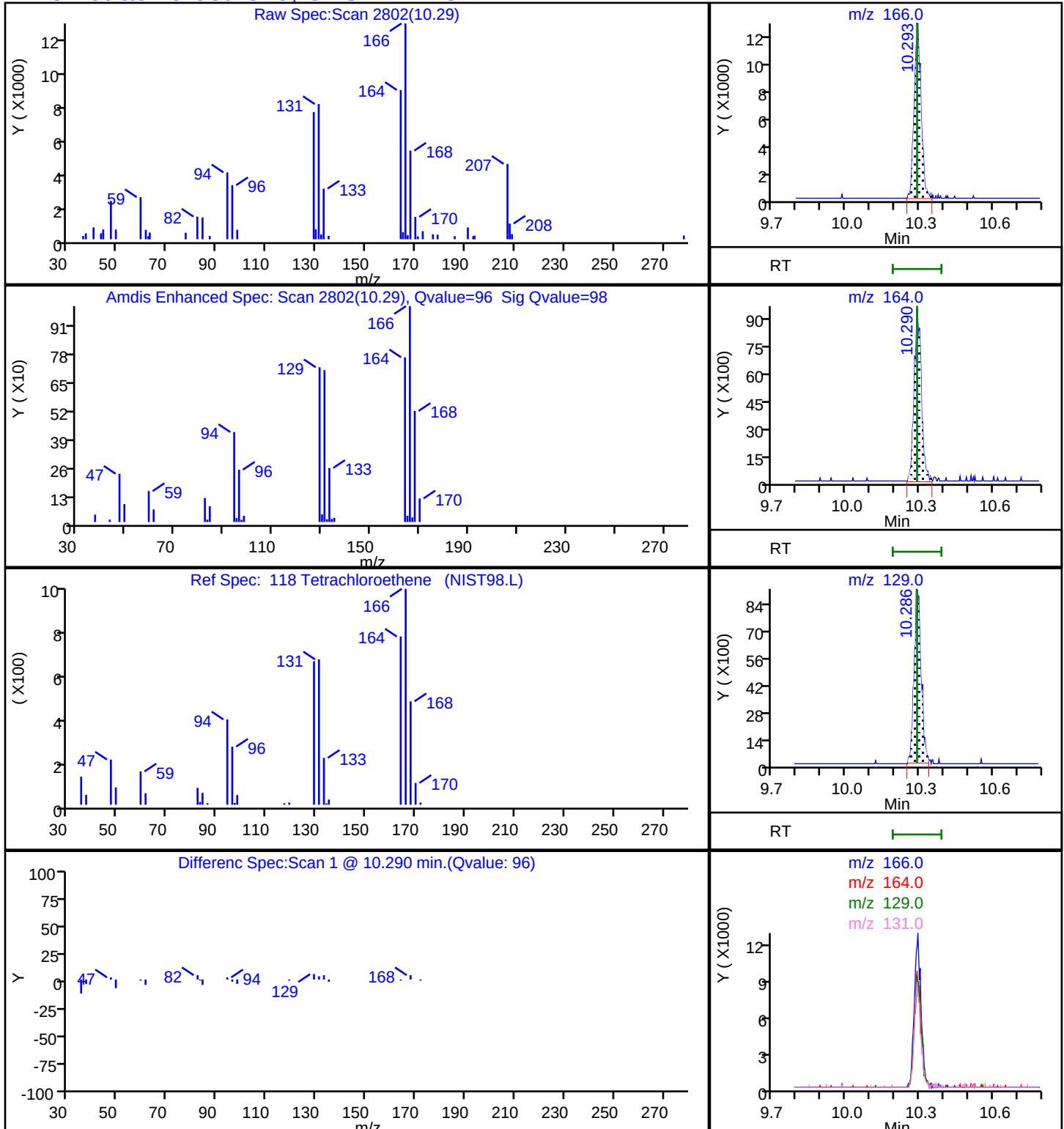
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

118 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X54.D

Injection Date: 09-Oct-2024 05:03:30

Instrument ID: 9915

Lims ID: 410-191048-A-12

Lab Sample ID: 410-191048-12

Client ID: HD-MW-43D-0/1-0

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 5.000 mL

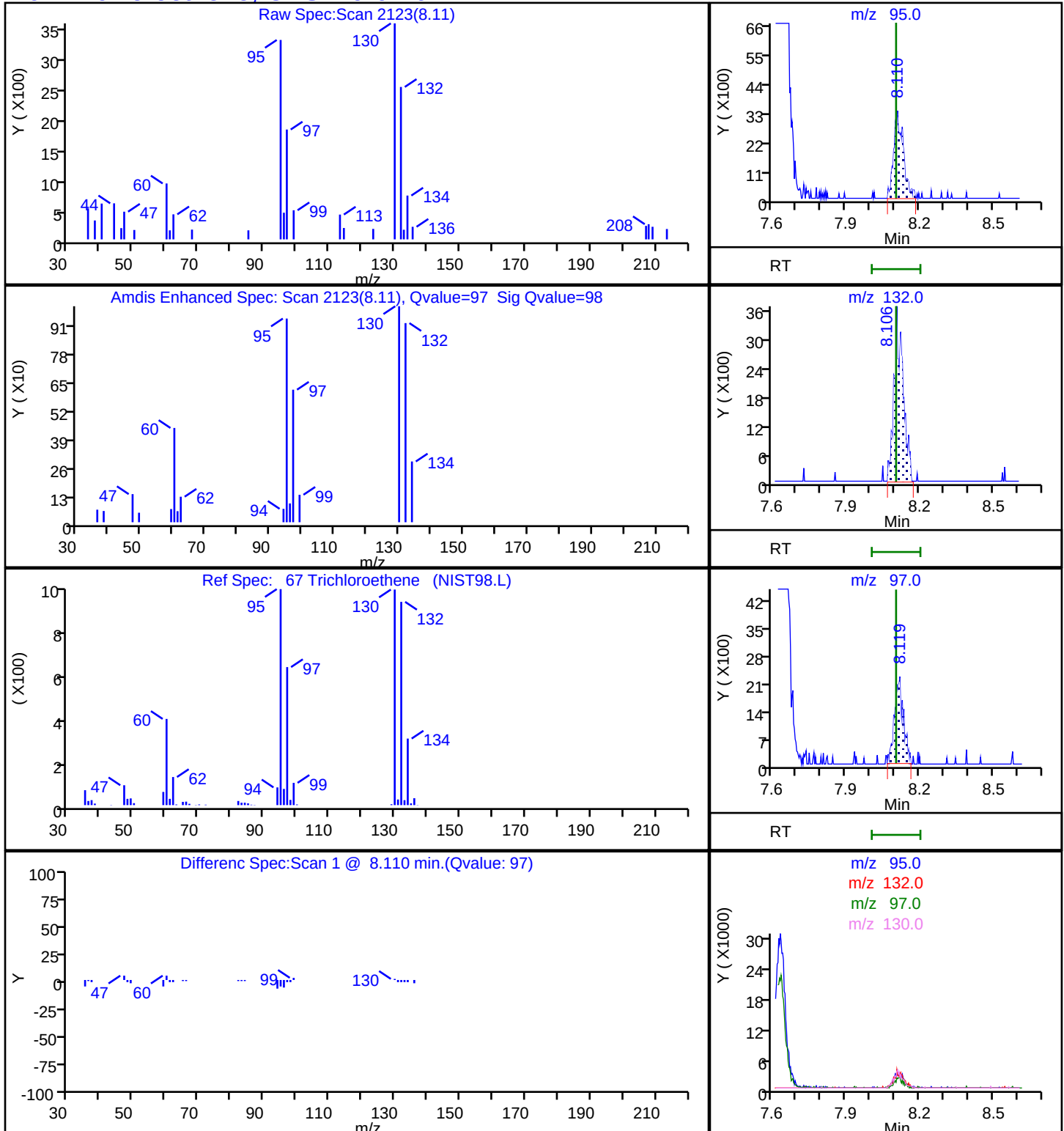
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) x 30 m

MS Quad

67 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

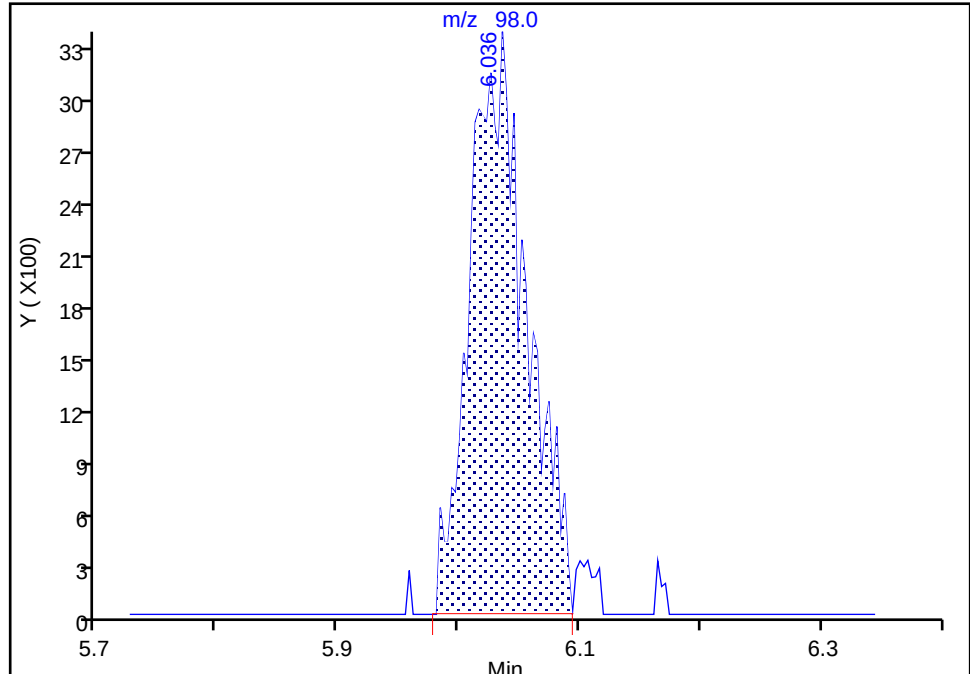
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Injection Date: 09-Oct-2024 05:03:30 Instrument ID: 9915
Lims ID: 410-191048-A-12 Lab Sample ID: 410-191048-12
Client ID: HD-MW-43D-0/1-0
Operator ID: gaw91131 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

42 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 2

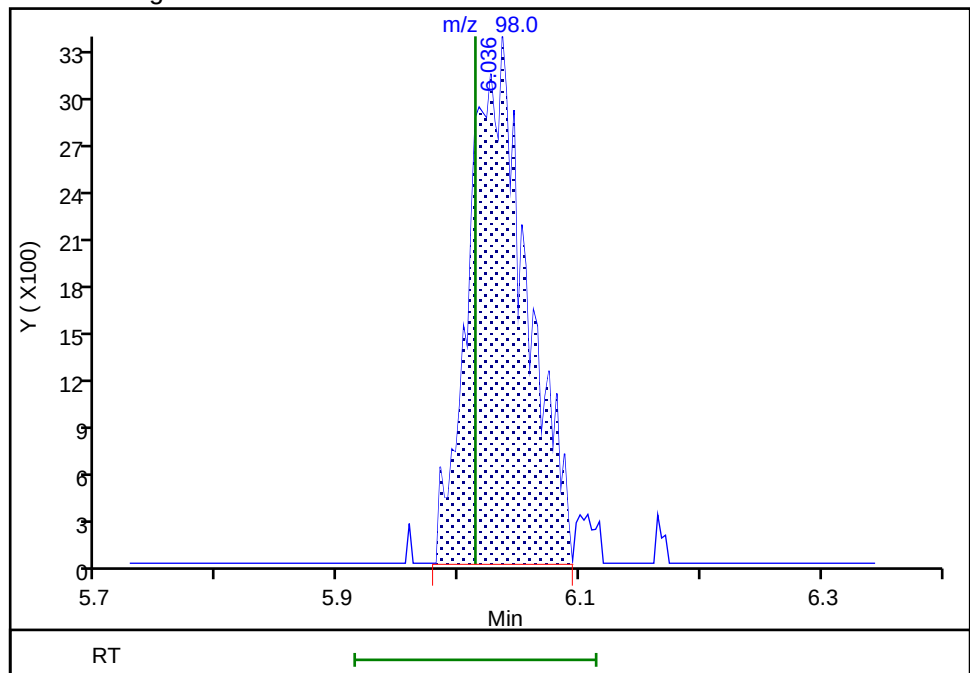
RT: 6.04
Area: 11036
Amount: 3.280442
Amount Units: ug/l

Processing Integration Results



RT: 6.04
Area: 11036
Amount: 3.280442
Amount Units: ug/l

Manual Integration Results



Reviewer: TQ4J, 09-Oct-2024 08:51:08 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

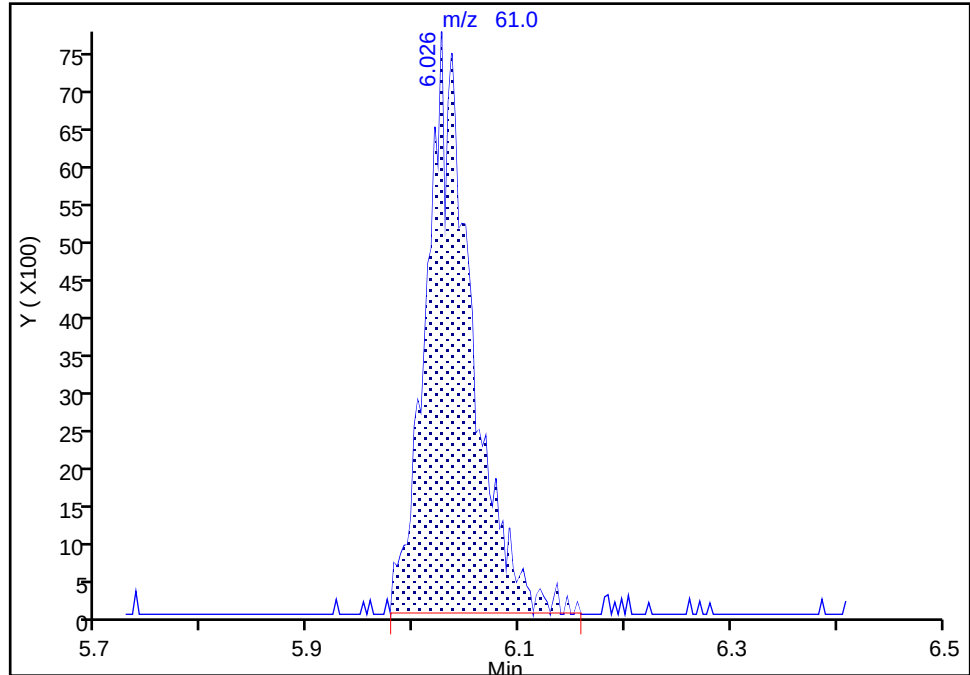
Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X54.D
Injection Date: 09-Oct-2024 05:03:30 Instrument ID: 9915
Lims ID: 410-191048-A-12 Lab Sample ID: 410-191048-12
Client ID: HD-MW-43D-0/1-0
Operator ID: gaw91131 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

42 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 3

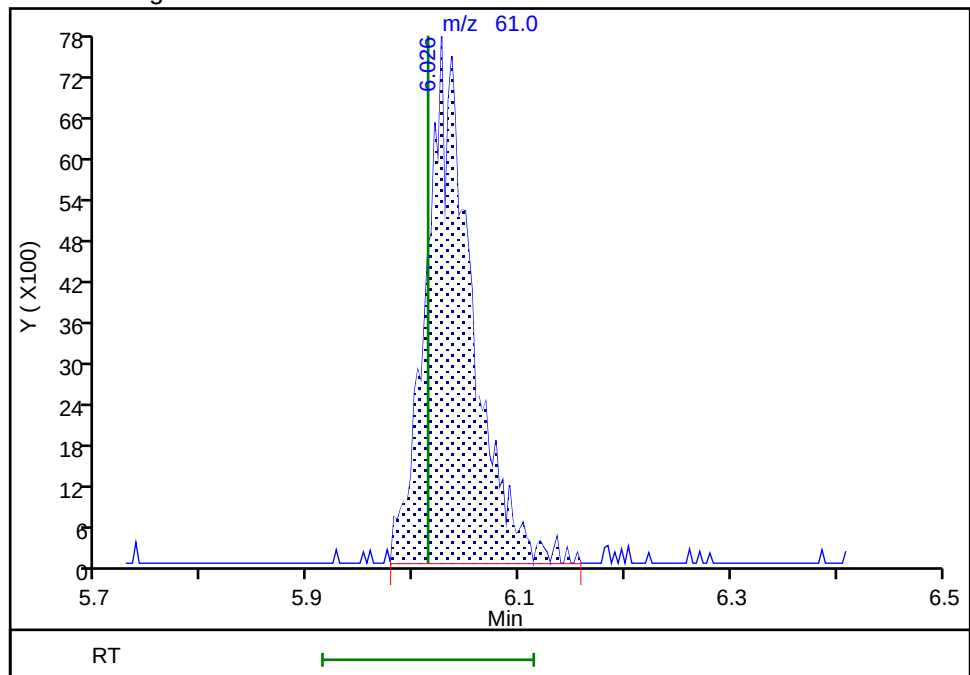
RT: 6.03
Area: 22976
Amount: 3.280442
Amount Units: ug/l

Processing Integration Results



RT: 6.03
Area: 22976
Amount: 3.280442
Amount Units: ug/l

Manual Integration Results



Reviewer: TQ4J, 09-Oct-2024 08:51:08 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

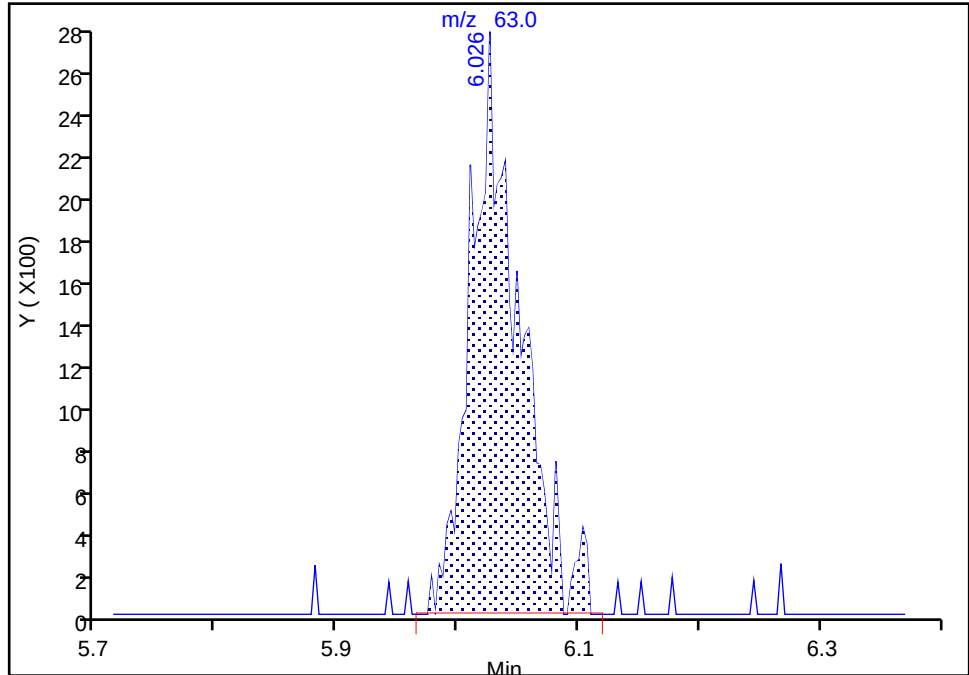
Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X54.D
Injection Date: 09-Oct-2024 05:03:30 Instrument ID: 9915
Lims ID: 410-191048-A-12 Lab Sample ID: 410-191048-12
Client ID: HD-MW-43D-0/1-0
Operator ID: gaw91131 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

42 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 4

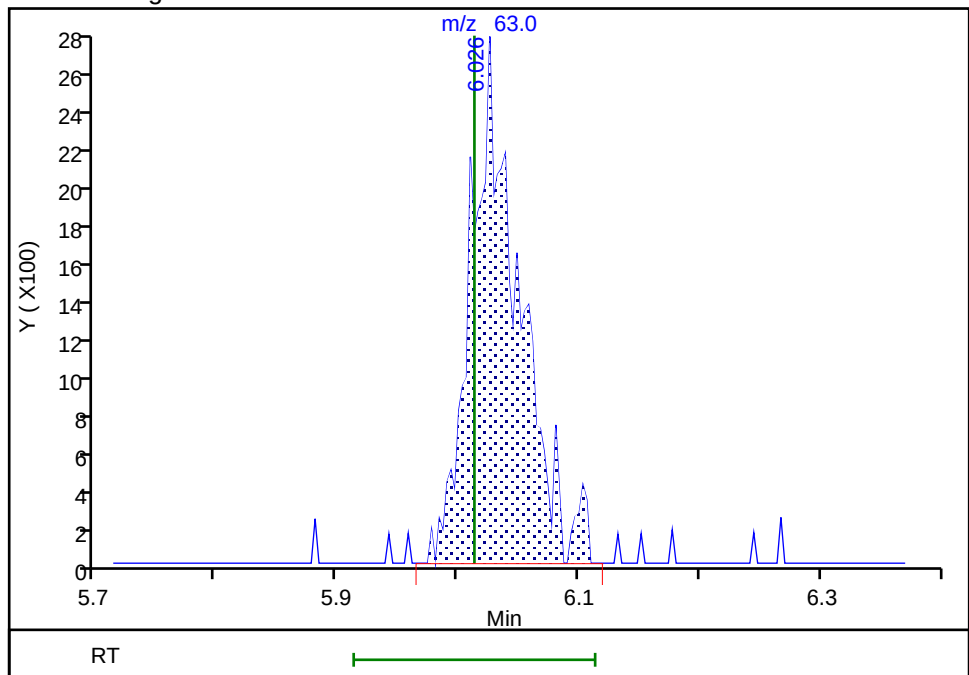
RT: 6.03
Area: 7532
Amount: 3.280442
Amount Units: ug/l

Processing Integration Results



RT: 6.03
Area: 7532
Amount: 3.280442
Amount Units: ug/l

Manual Integration Results



Reviewer: TQ4J, 09-Oct-2024 08:51:08 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-MW-16S-0/1-0

Lab Sample ID: 410-191048-13

Matrix: Water

Lab File ID: LC08X55.D

Analysis Method: 8260D

Date Collected: 10/04/2024 11:40

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 05:25

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND	^c cn	1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND	^c cn	10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	6.3		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	0.68	J	1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	Job No.: 410-191048-1
SDG No.:	
Client Sample ID: HD-MW-16S-0/1-0	Lab Sample ID: 410-191048-13
Matrix: Water	Lab File ID: LC08X55.D
Analysis Method: 8260D	Date Collected: 10/04/2024 11:40
Sample wt/vol: 5 (mL)	Date Analyzed: 10/09/2024 05:25
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: R-624SilMS 30m ID: 0.25 (mm)
Purge Volume: 5.0 (mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 560875	Units: ug/L
Preparation Batch No.:	Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	14		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X55.D
 Lims ID: 410-191048-A-13
 Client ID: HD-MW-16S-0/1-0
 Sample Type: Client
 Inject. Date: 09-Oct-2024 05:25:30 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-026
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 08:51:26 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 08:51:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.129				ND	7
7 Vinyl chloride	62		2.245				ND	7
9 Bromomethane	94		2.579				ND	
10 Chloroethane	64		2.641				ND	
18 1,1-Dichloroethene	96		3.464				ND	7
19 Acetone	58		3.480				ND	
23 Carbon disulfide	76		3.756				ND	7
27 Methylene Chloride	84		4.100				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.103	4.139	-0.036	1	215553	250.0	
31 Methyl tert-butyl ether	73		4.499				ND	7
32 trans-1,2-Dichloroethene	96		4.505				ND	
36 1,1-Dichloroethane	63		5.171				ND	
41 2-Butanone (MEK)	43		5.988				ND	7
42 cis-1,2-Dichloroethene	96	6.016	6.013	0.003	79	33433	6.35	
49 Chlorobromomethane	128		6.348				ND	
51 Chloroform	83		6.502				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.727	6.718	0.009	93	250253	51.0	
53 1,1,1-Trichloroethane	97		6.737				ND	
55 Carbon tetrachloride	117		6.952				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.180	7.171	0.009	83	62073	52.4	
59 Benzene	78		7.216				ND	7
60 1,2-Dichloroethane	62		7.280				ND	7
* 63 Fluorobenzene (IS)	96	7.627	7.621	0.006	99	977740	50.0	
67 Trichloroethene	95	8.103	8.103	0.000	98	68065	13.5	
70 1,2-Dichloropropane	63		8.431				ND	
76 Dichlorobromomethane	83		8.779				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	7
80 4-Methyl-2-pentanone (MIBK)	43		9.515				ND	7
\$ 82 Toluene-d8 (Surr)	98	9.656	9.653	0.003	94	913982	51.1	
90 Toluene	92		9.727				ND	7
95 trans-1,3-Dichloropropene	75		9.988				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166	10.296	10.290	0.006	86	3211	0.6838	
121 2-Hexanone	43		10.415				ND	7
123 Chlorodibromomethane	129		10.573				ND	
124 Ethylene Dibromide	107		10.682				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.122	11.123	0.000	85	705537	50.0	
128 Chlorobenzene	112		11.151				ND	
131 1,1,1,2-Tetrachloroethane	131		11.229				ND	
132 Ethylbenzene	91		11.238				ND	
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	
136 o-Xylene	106		11.685				ND	7
137 Styrene	104		11.698				ND	
138 Bromoform	173		11.852				ND	7
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	313697	44.4	
145 1,1,2,2-Tetrachloroethane	83		12.229				ND	
* 161 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	94	408689	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 09-Oct-2024 08:54:09

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X55.D

Injection Date: 09-Oct-2024 05:25:30

Instrument ID: 9915

Operator ID: gaw91131

Lims ID: 410-191048-A-13

Lab Sample ID: 410-191048-13

Worklist Smp#: 26

Client ID: HD-MW-16S-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

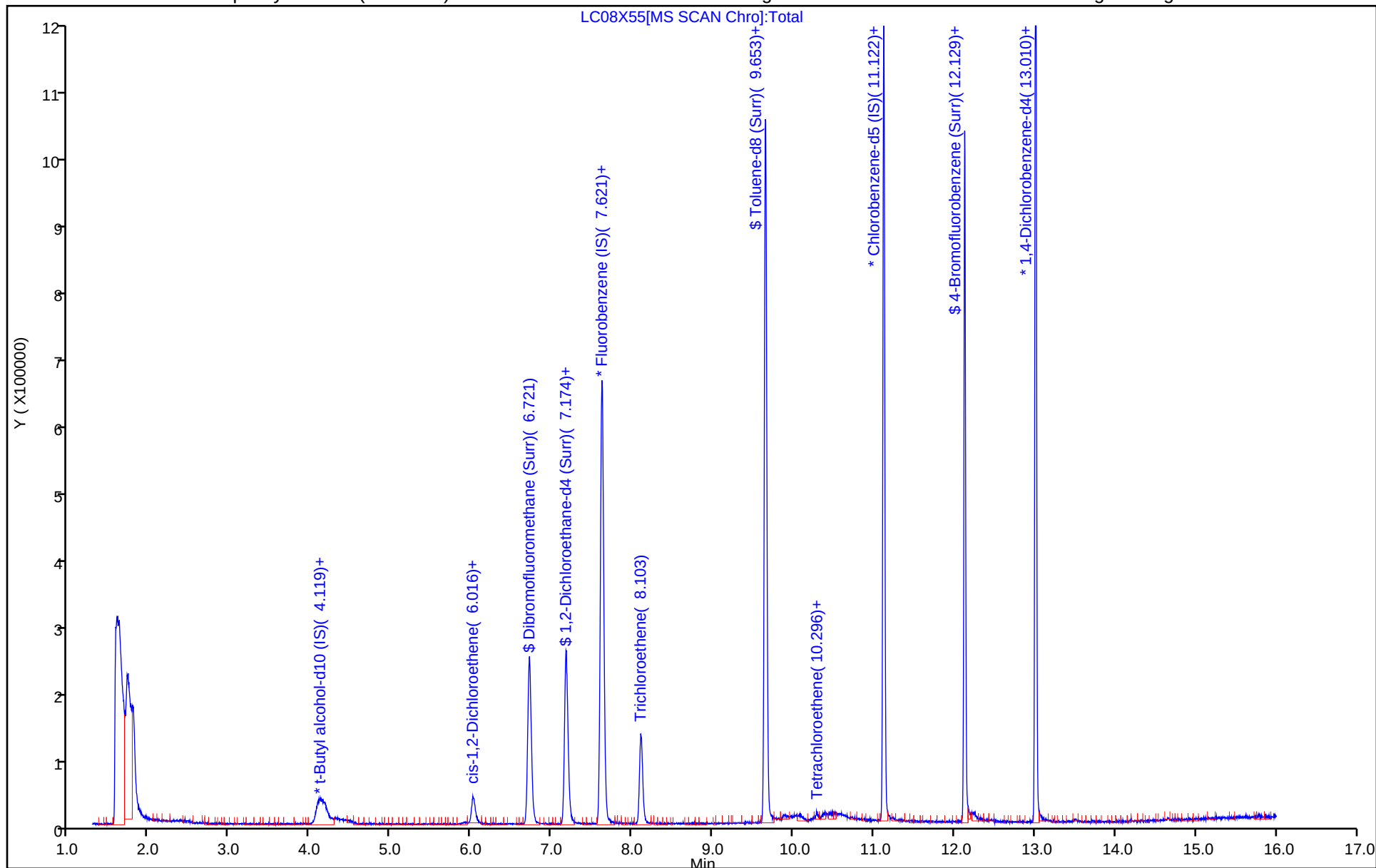
ALS Bottle#: 25

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X55.D
Lims ID: 410-191048-A-13
Client ID: HD-MW-16S-0/1-0
Sample Type: Client
Inject. Date: 09-Oct-2024 05:25:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-026
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 08:51:26 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 08:51:58

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	51.0	102.07
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	52.4	104.75
\$ 82 Toluene-d8 (Surr)	50.0	51.1	102.28
\$ 142 4-Bromofluorobenzene (Surr)	50.0	44.4	88.83

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X55.D

Injection Date: 09-Oct-2024 05:25:30

Instrument ID: 9915

Lims ID: 410-191048-A-13

Lab Sample ID: 410-191048-13

Client ID: HD-MW-16S-0/1-0

Operator ID: gaw91131

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 5.000 mL

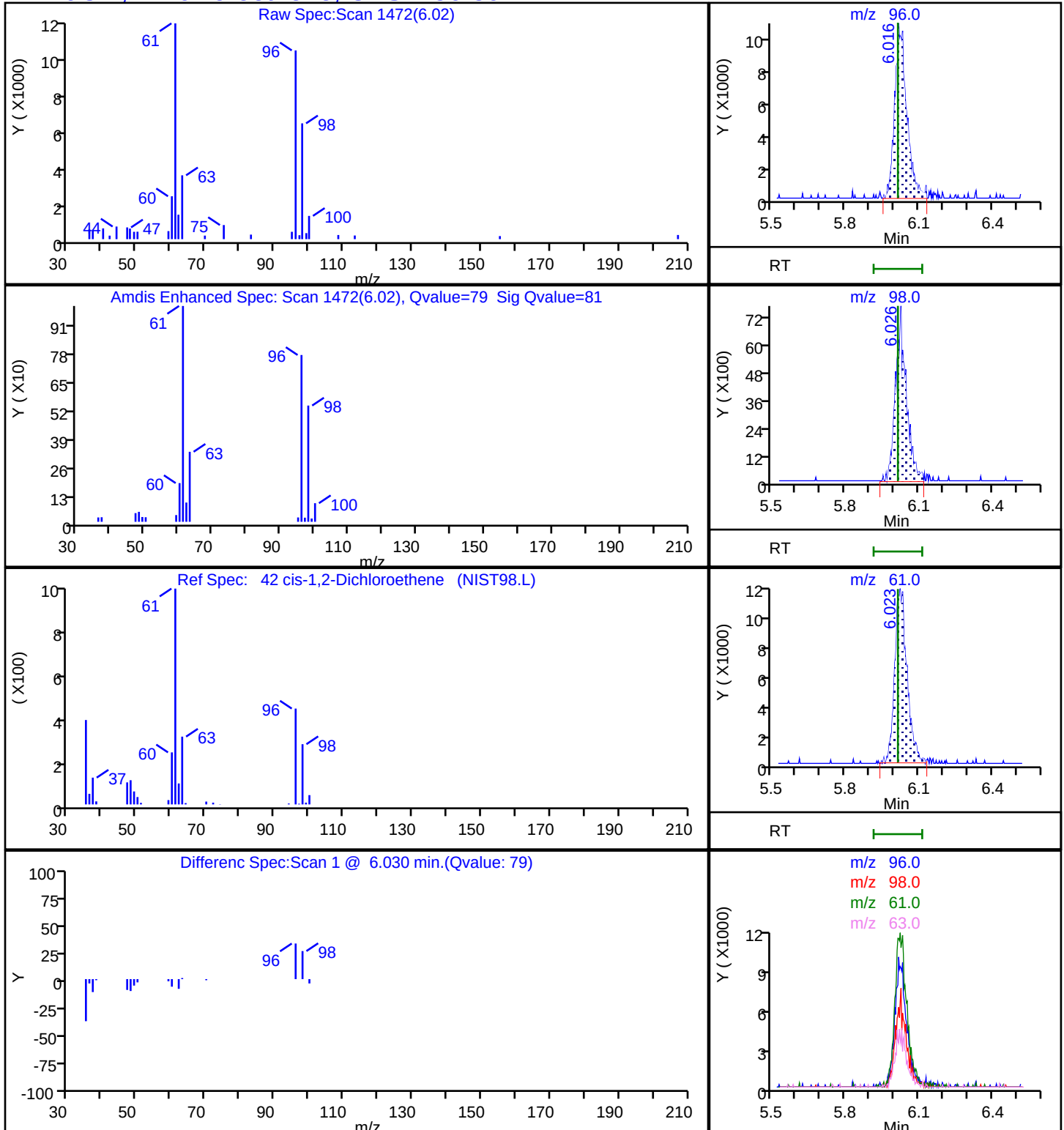
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) x 100 m

MS Quad

42 cis-1,2-Dichloroethene, CAS: 156-59-2

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X55.D

Injection Date: 09-Oct-2024 05:25:30

Instrument ID: 9915

Lims ID: 410-191048-A-13

Lab Sample ID: 410-191048-13

Client ID: HD-MW-16S-0/1-0

Operator ID: gaw91131

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 5.000 mL

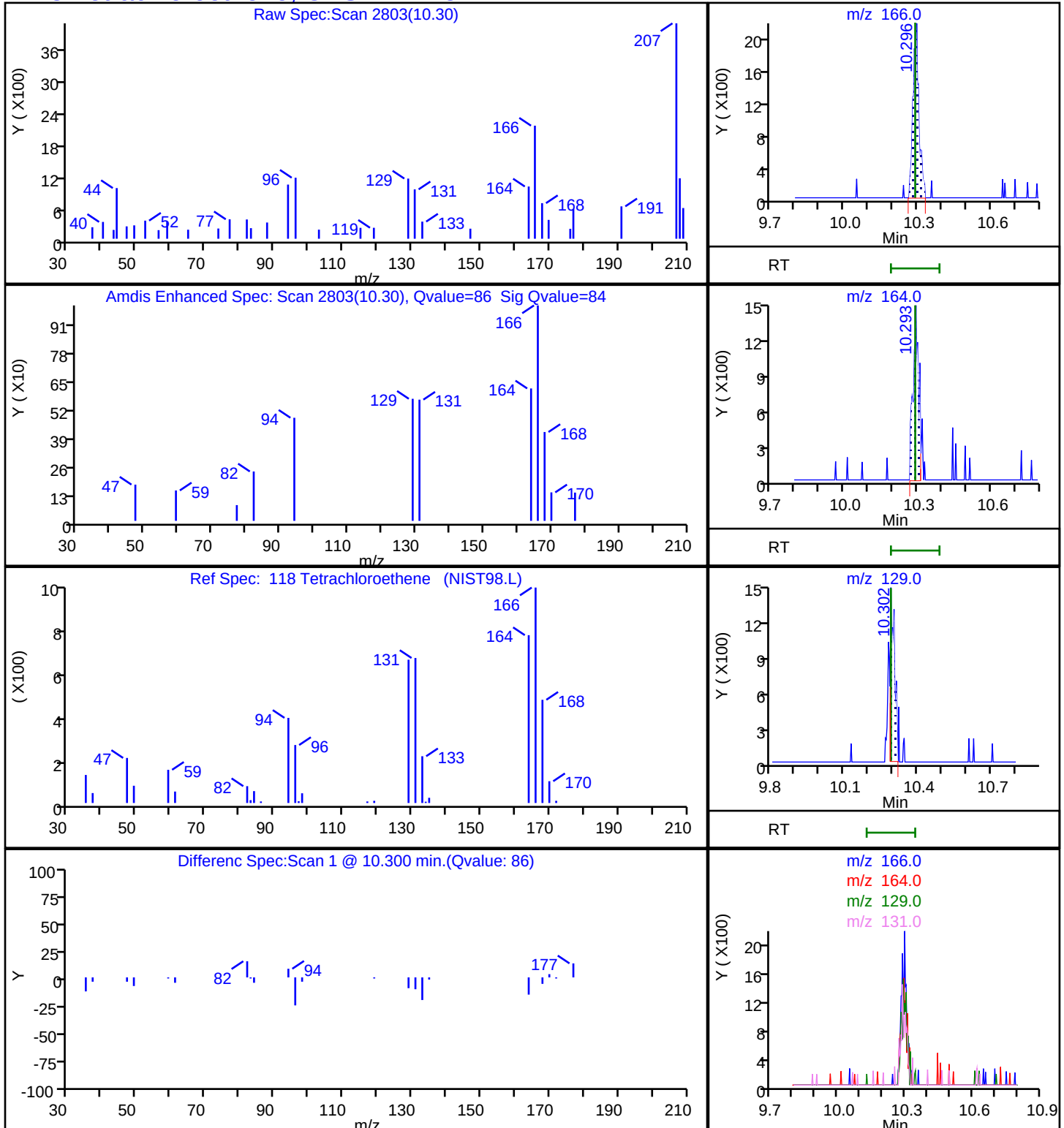
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

118 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X55.D

Injection Date: 09-Oct-2024 05:25:30

Instrument ID: 9915

Lims ID: 410-191048-A-13

Lab Sample ID: 410-191048-13

Client ID: HD-MW-16S-0/1-0

Operator ID: gaw91131

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 5.000 mL

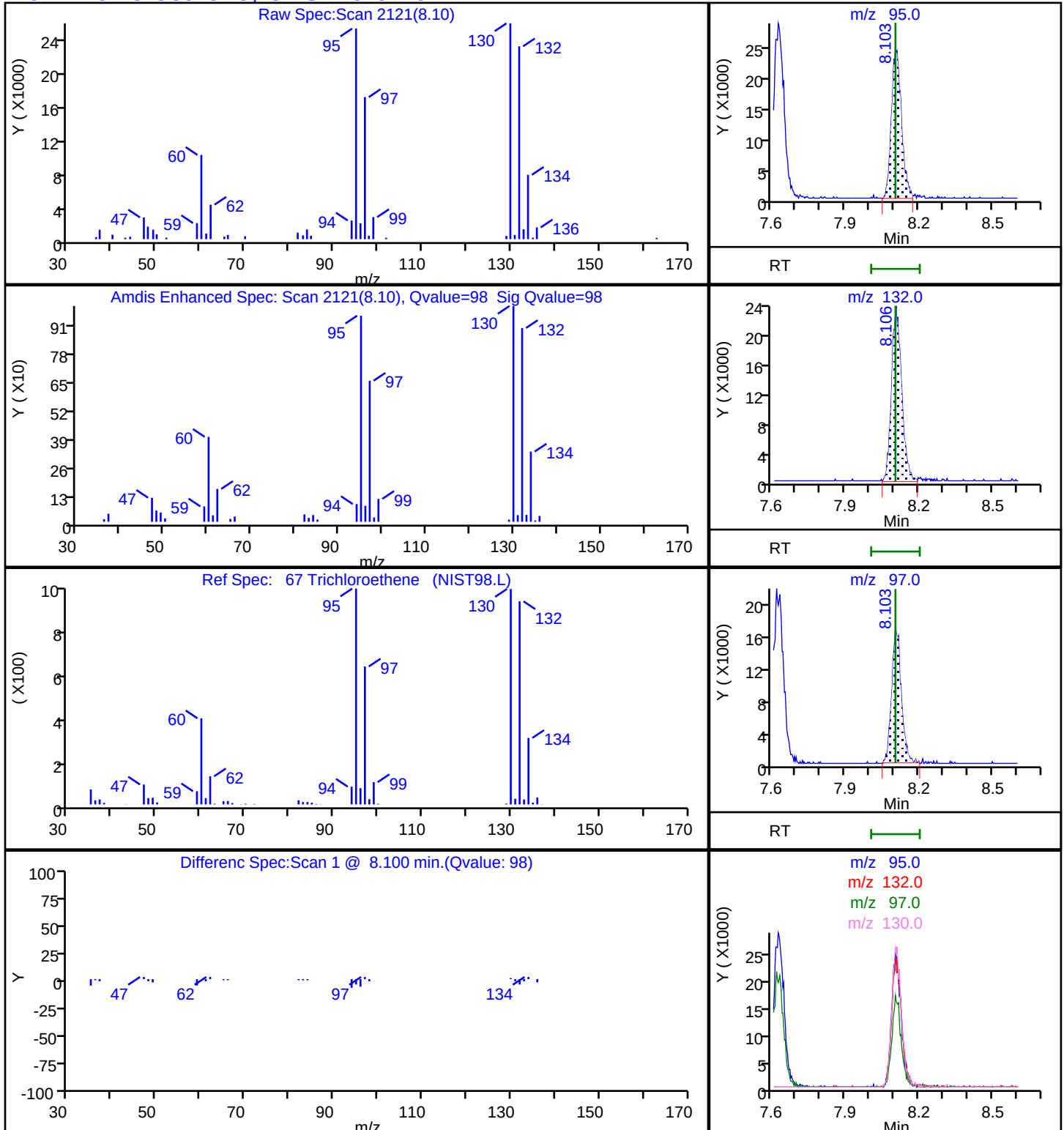
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

67 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-MW-82-0/1-0

Lab Sample ID: 410-191048-14

Matrix: Water

Lab File ID: LC08X56.D

Analysis Method: 8260D

Date Collected: 10/04/2024 12:25

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 05:47

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND	^c cn	1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND	^c cn	10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.0		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	1.3		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-MW-82-0/1-0 Lab Sample ID: 410-191048-14

Matrix: Water Lab File ID: LC08X56.D

Analysis Method: 8260D Date Collected: 10/04/2024 12:25

Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2024 05:47

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 560875 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	0.94	J	1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	88		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X56.D
 Lims ID: 410-191048-A-14
 Client ID: HD-MW-82-0/1-0
 Sample Type: Client
 Inject. Date: 09-Oct-2024 05:47:30 ALS Bottle#: 26 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-027
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 08:51:26 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 08:52:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.129				ND	7
7 Vinyl chloride	62		2.245				ND	
9 Bromomethane	94		2.579				ND	
10 Chloroethane	64		2.641				ND	7
18 1,1-Dichloroethene	96		3.464				ND	7
19 Acetone	58		3.480				ND	
23 Carbon disulfide	76		3.756				ND	7
27 Methylene Chloride	84		4.100				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.152	4.139	0.013	1	215182	250.0	
31 Methyl tert-butyl ether	73		4.499				ND	7
32 trans-1,2-Dichloroethene	96		4.505				ND	
36 1,1-Dichloroethane	63	5.184	5.171	0.013	1	939	0.1162	
41 2-Butanone (MEK)	43		5.988				ND	7
42 cis-1,2-Dichloroethene	96	6.033	6.013	0.020	28	5517	1.01	
49 Chlorobromomethane	128		6.348				ND	
51 Chloroform	83		6.502				ND	7
\$ 52 Dibromofluoromethane (Surr)	113	6.727	6.718	0.009	92	259496	50.9	
53 1,1,1-Trichloroethane	97		6.737				ND	7
55 Carbon tetrachloride	117		6.952				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.184	7.171	0.013	83	63567	51.6	
59 Benzene	78		7.216				ND	7
60 1,2-Dichloroethane	62		7.280				ND	7
* 63 Fluorobenzene (IS)	96	7.624	7.621	0.003	99	1015763	50.0	
67 Trichloroethene	95	8.113	8.103	0.010	83	4900	0.9375	
70 1,2-Dichloropropane	63		8.431				ND	7
76 Dichlorobromomethane	83		8.779				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.515				ND	
\$ 82 Toluene-d8 (Surr)	98	9.656	9.653	0.003	94	952212	50.3	
90 Toluene	92		9.727				ND	
95 trans-1,3-Dichloropropene	75		9.988				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166	10.296	10.290	0.006	90	6416	1.29	
121 2-Hexanone	43		10.415				ND	7
123 Chlorodibromomethane	129		10.573				ND	
124 Ethylene Dibromide	107		10.682				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.126	11.123	0.004	85	747581	50.0	
128 Chlorobenzene	112		11.151				ND	7
131 1,1,1,2-Tetrachloroethane	131		11.229				ND	
132 Ethylbenzene	91		11.238				ND	7
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	
136 o-Xylene	106		11.685				ND	
137 Styrene	104		11.698				ND	
138 Bromoform	173		11.852				ND	7
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	327658	43.8	
145 1,1,2,2-Tetrachloroethane	83		12.229				ND	
* 161 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	431792	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 09-Oct-2024 08:54:12

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X56.D

Injection Date: 09-Oct-2024 05:47:30

Instrument ID: 9915

Operator ID: gaw91131

Lims ID: 410-191048-A-14

Lab Sample ID: 410-191048-14

Worklist Smp#: 27

Client ID: HD-MW-82-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

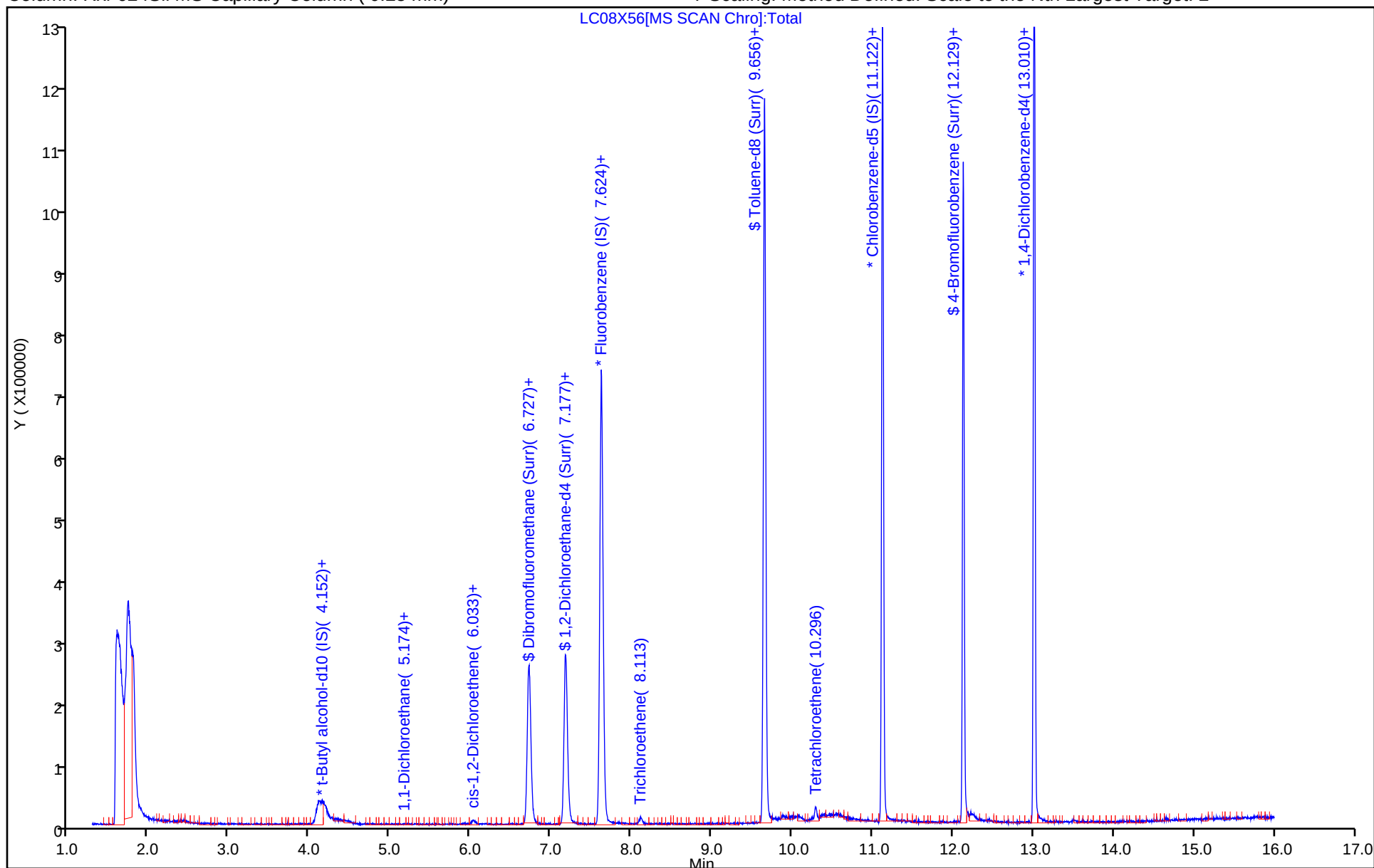
ALS Bottle#: 26

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X56.D
Lims ID: 410-191048-A-14
Client ID: HD-MW-82-0/1-0
Sample Type: Client
Inject. Date: 09-Oct-2024 05:47:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-027
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 08:51:26 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 08:52:34

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	50.9	101.88
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	51.6	103.26
\$ 82 Toluene-d8 (Surr)	50.0	50.3	100.56
\$ 142 4-Bromofluorobenzene (Surr)	50.0	43.8	87.57

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X56.D

Injection Date: 09-Oct-2024 05:47:30

Instrument ID: 9915

Lims ID: 410-191048-A-14

Lab Sample ID: 410-191048-14

Client ID: HD-MW-82-0/1-0

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

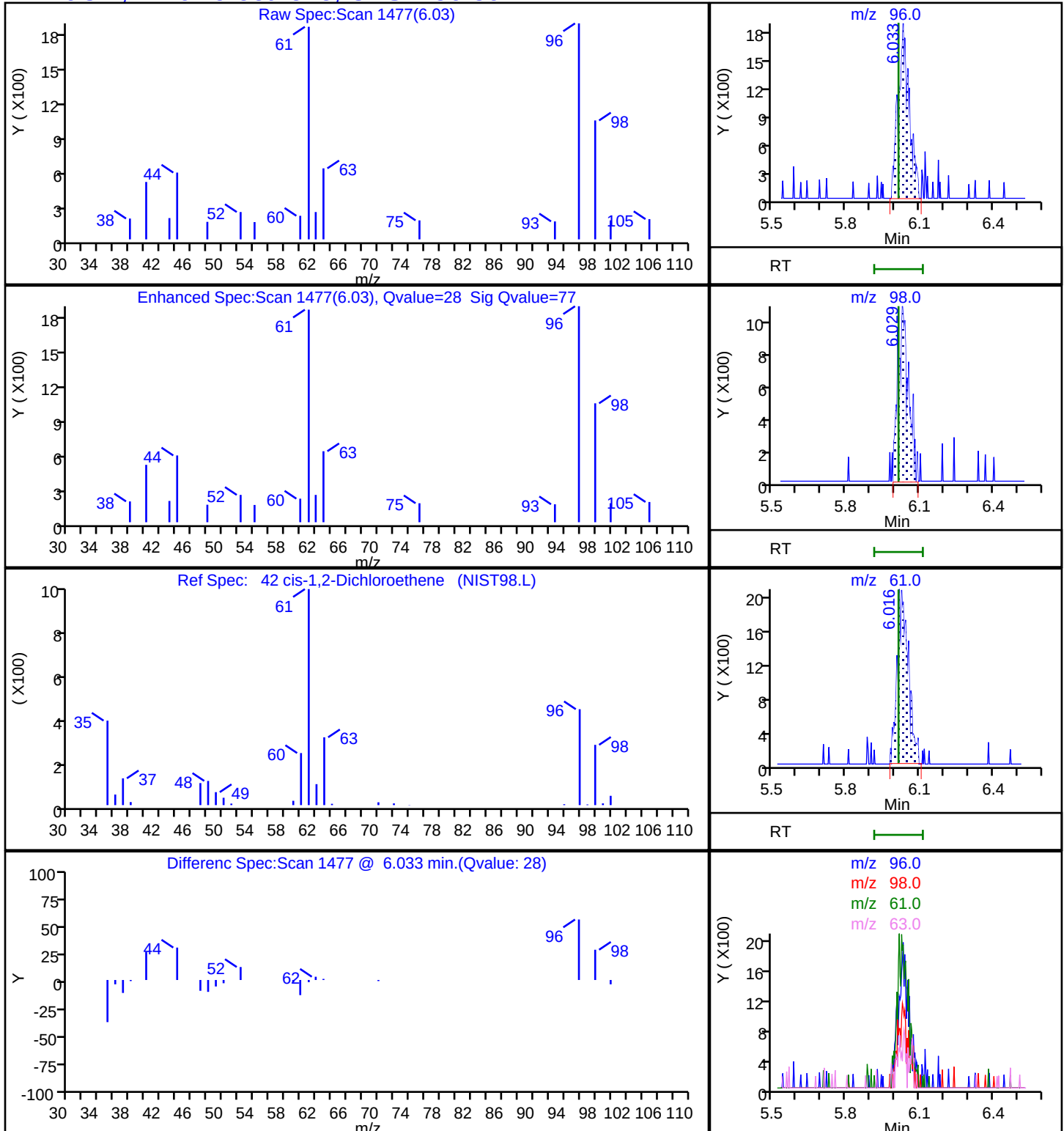
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID)

MS Quad

42 cis-1,2-Dichloroethene, CAS: 156-59-2

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X56.D

Injection Date: 09-Oct-2024 05:47:30

Instrument ID: 9915

Lims ID: 410-191048-A-14

Lab Sample ID: 410-191048-14

Client ID: HD-MW-82-0/1-0

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

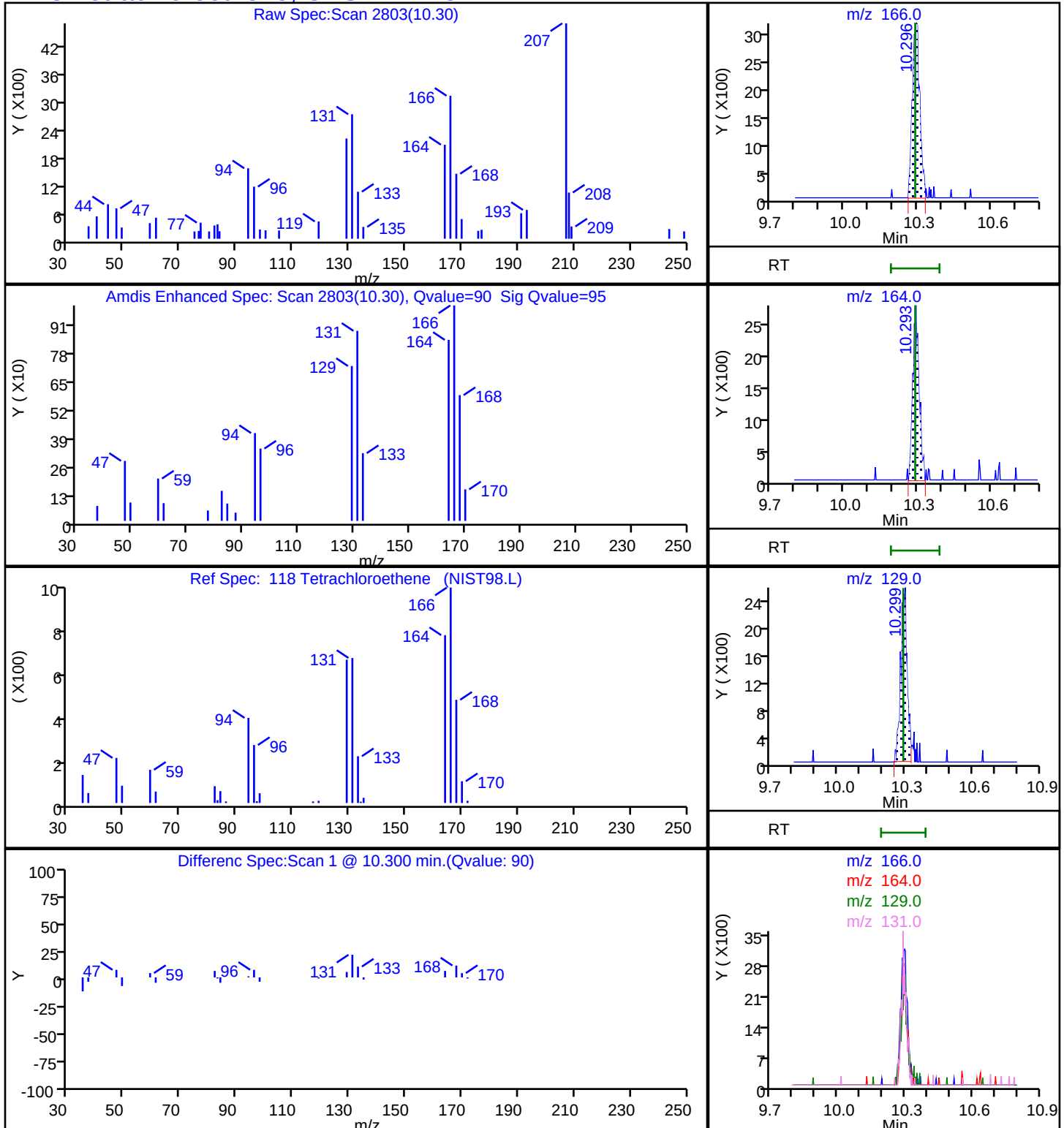
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

118 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X56.D

Injection Date: 09-Oct-2024 05:47:30

Instrument ID: 9915

Lims ID: 410-191048-A-14

Lab Sample ID: 410-191048-14

Client ID: HD-MW-82-0/1-0

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

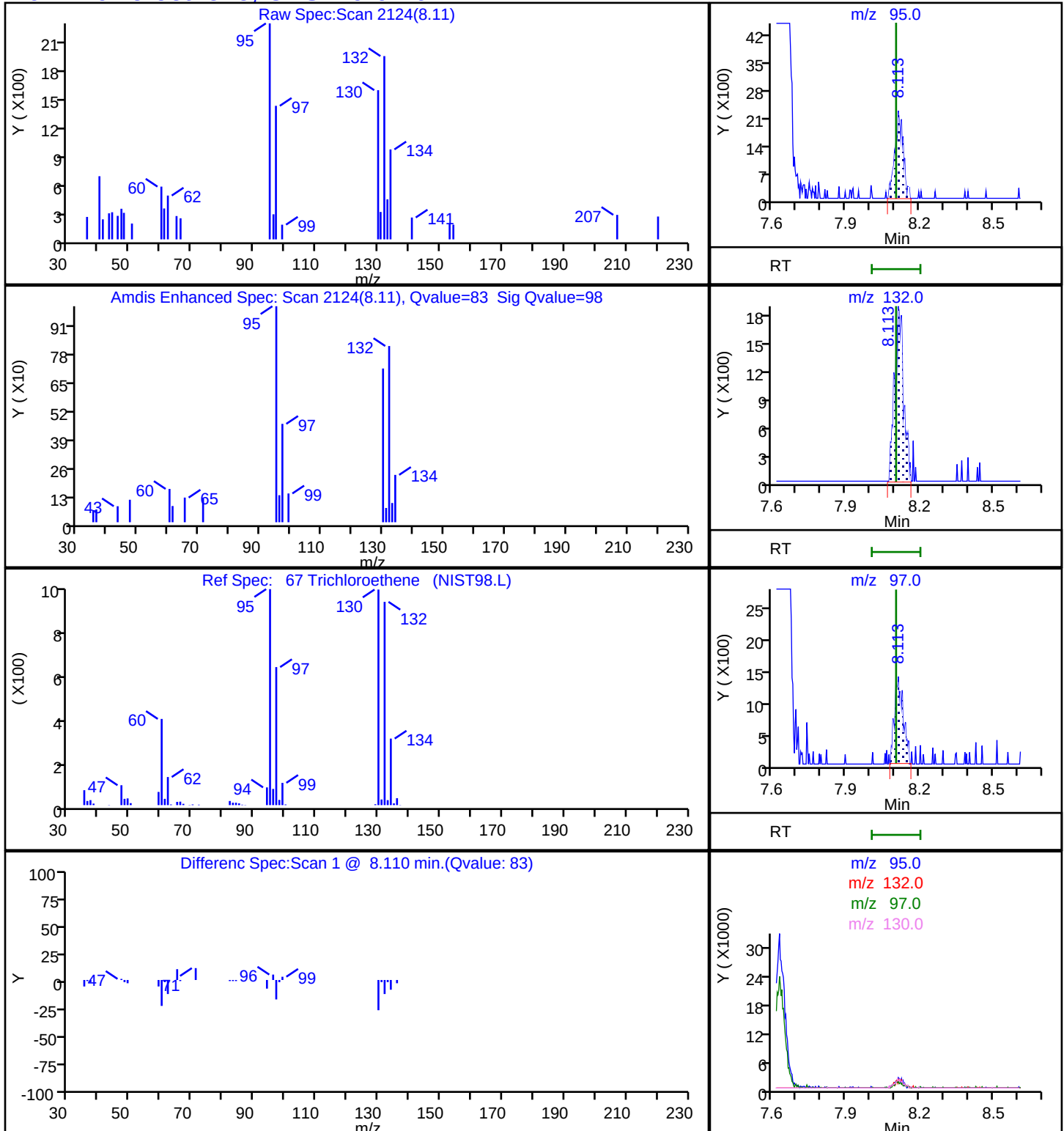
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) x 30 m

MS Quad

67 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-QC2-0/1-3

Lab Sample ID: 410-191048-15

Matrix: Water

Lab File ID: LC09X25.D

Analysis Method: 8260D

Date Collected: 10/04/2024 11:55

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 17:34

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560989

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND	^c cn	1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-QC2-0/1-3 Lab Sample ID: 410-191048-15

Matrix: Water Lab File ID: LC09X25.D

Analysis Method: 8260D Date Collected: 10/04/2024 11:55

Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2024 17:34

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 560989 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.46	J	1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X25.D
 Lims ID: 410-191048-A-15
 Client ID: HD-QC2-0/1-3
 Sample Type: Client
 Inject. Date: 09-Oct-2024 17:34:30 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127182-026
 Operator ID: CLM27445 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 10-Oct-2024 07:48:23 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1653

First Level Reviewer: N9NA

Date: 10-Oct-2024 07:57:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.145				ND	7
7 Vinyl chloride	62		2.251				ND	7
9 Bromomethane	94		2.589				ND	
10 Chloroethane	64		2.653				ND	7
18 1,1-Dichloroethene	96		3.476				ND	
19 Acetone	58		3.492				ND	
23 Carbon disulfide	76		3.769				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.161	4.116	0.045	28	248149	250.0	
27 Methylene Chloride	84		4.116				ND	7
31 Methyl tert-butyl ether	73		4.512				ND	
32 trans-1,2-Dichloroethene	96		4.525				ND	
36 1,1-Dichloroethane	63		5.180				ND	
41 2-Butanone (MEK)	43		6.007				ND	7
42 cis-1,2-Dichloroethene	96		6.023				ND	
49 Chlorobromomethane	128		6.351				ND	
51 Chloroform	83		6.512				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.724	6.721	0.003	93	283253	50.1	
53 1,1,1-Trichloroethane	97		6.740				ND	
55 Carbon tetrachloride	117		6.959				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.180	-0.003	83	68603	50.2	
59 Benzene	78		7.222				ND	7
60 1,2-Dichloroethane	62		7.286				ND	
* 63 Fluorobenzene (IS)	96	7.627	7.624	0.003	99	1127446	50.0	
67 Trichloroethene	95		8.110				ND	7
70 1,2-Dichloropropane	63		8.434				ND	
76 Dichlorobromomethane	83		8.785				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.518				ND	7
\$ 82 Toluene-d8 (Surr)	98	9.653	9.656	-0.003	93	1054391	50.7	
90 Toluene	92	9.740	9.733	0.007	96	5923	0.4580	
95 trans-1,3-Dichloropropene	75		9.991				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166		10.293				ND	
121 2-Hexanone	43		10.415				ND	7
123 Chlorodibromomethane	129		10.576				ND	
124 Ethylene Dibromide	107		10.685				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.122	11.126	-0.004	85	820901	50.0	
128 Chlorobenzene	112		11.151				ND	
131 1,1,1,2-Tetrachloroethane	131		11.232				ND	
132 Ethylbenzene	91		11.238				ND	7
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	7
136 o-Xylene	106		11.685				ND	7
137 Styrene	104		11.701				ND	
138 Bromoform	173		11.855				ND	
\$ 142 4-Bromofluorobenzene (Surr)	95	12.132	12.129	0.003	91	366543	44.6	
145 1,1,2,2-Tetrachloroethane	83		12.228				ND	
* 161 1,4-Dichlorobenzene-d4	152	13.010	13.013	-0.003	94	475351	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

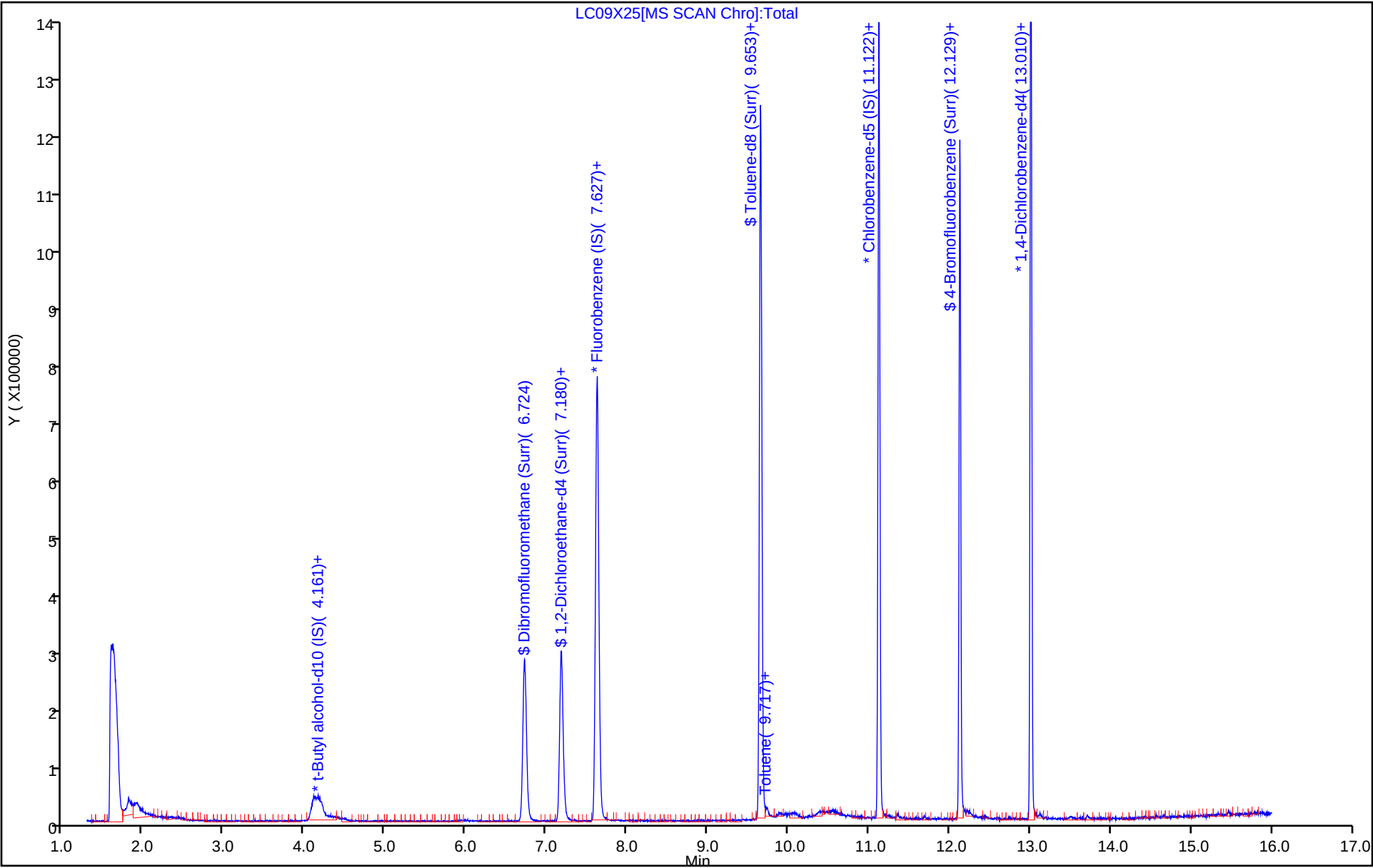
Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X25.D
Lims ID: 410-191048-A-15
Client ID: HD-QC2-0/1-3
Sample Type: Client
Inject. Date: 09-Oct-2024 17:34:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127182-026
Operator ID: CLM27445 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 10-Oct-2024 07:48:23 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1653

First Level Reviewer: N9NA

Date: 10-Oct-2024 07:57:58

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	50.1	100.19
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	50.2	100.40
\$ 82 Toluene-d8 (Surr)	50.0	50.7	101.41
\$ 142 4-Bromofluorobenzene (Surr)	50.0	44.6	89.21

Instrument ID: 9915

Lab Sample ID: 410-191048-15

Operator ID: CLM27445

ALS Bottle#: 25

Worklist Smp#: 26

Dil. Factor: 1.0000

Limit Group: MSV - 8260C D

MS Quad

90 Toluene, CAS: 108-88-3

Raw Spec: Scan 2630(9.74)

Amdis Enhanced Spec: Scan 2630(9.74), Qvalue=96 Sig Qvalue=96

Ref Spec: 90 Toluene (NIST98.L)

Differenc Spec: Scan 1 @ 9.740 min.(Qvalue: 96)

m/z 92.0

m/z 91.0

m/z 65.0

m/z 92.0
m/z 91.0
m/z 65.0
m/z 39.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-QC2-0/1-4

Lab Sample ID: 410-191048-16

Matrix: Water

Lab File ID: LC09X26.D

Analysis Method: 8260D

Date Collected: 10/04/2024 12:00

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 17:56

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560989

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND	^c cn	1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-QC2-0/1-4 Lab Sample ID: 410-191048-16

Matrix: Water Lab File ID: LC09X26.D

Analysis Method: 8260D Date Collected: 10/04/2024 12:00

Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2024 17:56

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 560989 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.57	J	1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X26.D
 Lims ID: 410-191048-A-16
 Client ID: HD-QC2-0/1-4
 Sample Type: Client
 Inject. Date: 09-Oct-2024 17:56:30 ALS Bottle#: 26 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127182-027
 Operator ID: CLM27445 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 10-Oct-2024 07:48:23 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1653

First Level Reviewer: N9NA

Date: 10-Oct-2024 07:58:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.145				ND	7
7 Vinyl chloride	62		2.251				ND	7
9 Bromomethane	94		2.589				ND	
10 Chloroethane	64		2.653				ND	7
18 1,1-Dichloroethene	96		3.476				ND	
19 Acetone	58		3.492				ND	
23 Carbon disulfide	76		3.769				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.126	4.116	0.010	1	239208	250.0	
27 Methylene Chloride	84		4.116				ND	7
31 Methyl tert-butyl ether	73		4.512				ND	
32 trans-1,2-Dichloroethene	96		4.525				ND	
36 1,1-Dichloroethane	63		5.180				ND	
41 2-Butanone (MEK)	43		6.007				ND	7
42 cis-1,2-Dichloroethene	96		6.023				ND	
49 Chlorobromomethane	128		6.351				ND	
51 Chloroform	83		6.512				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.721	6.721	0.000	93	262510	49.5	
53 1,1,1-Trichloroethane	97		6.740				ND	
55 Carbon tetrachloride	117		6.959				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.184	7.180	0.004	83	65375	51.0	
59 Benzene	78		7.222				ND	7
60 1,2-Dichloroethane	62		7.286				ND	
* 63 Fluorobenzene (IS)	96	7.621	7.624	-0.003	99	1056635	50.0	
67 Trichloroethene	95		8.110				ND	
70 1,2-Dichloropropane	63		8.434				ND	
76 Dichlorobromomethane	83		8.785				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.518				ND	7
\$ 82 Toluene-d8 (Surr)	98	9.656	9.656	0.000	94	987982	51.0	
90 Toluene	92	9.737	9.733	0.004	90	6839	0.5674	
95 trans-1,3-Dichloropropene	75		9.991				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166		10.293				ND	7
121 2-Hexanone	43		10.415				ND	7
123 Chlorodibromomethane	129		10.576				ND	
124 Ethylene Dibromide	107		10.685				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.126	11.126	0.000	85	765094	50.0	
128 Chlorobenzene	112		11.151				ND	7
131 1,1,1,2-Tetrachloroethane	131		11.232				ND	
132 Ethylbenzene	91		11.238				ND	7
S 133 Xylenes, Total	106				0		0.2641	
134 m-Xylene & p-Xylene	106	11.364	11.354	0.010	28	2538	0.2641	
136 o-Xylene	106		11.685				ND	7
137 Styrene	104		11.701				ND	7
138 Bromoform	173		11.855				ND	
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	353049	46.1	
145 1,1,2,2-Tetrachloroethane	83		12.228				ND	7
* 161 1,4-Dichlorobenzene-d4	152	13.010	13.013	-0.003	95	447119	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 10-Oct-2024 07:58:46

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X26.D

Injection Date: 09-Oct-2024 17:56:30

Instrument ID: 9915

Operator ID: CLM27445

Lims ID: 410-191048-A-16

Lab Sample ID: 410-191048-16

Worklist Smp#: 27

Client ID: HD-QC2-0/1-4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

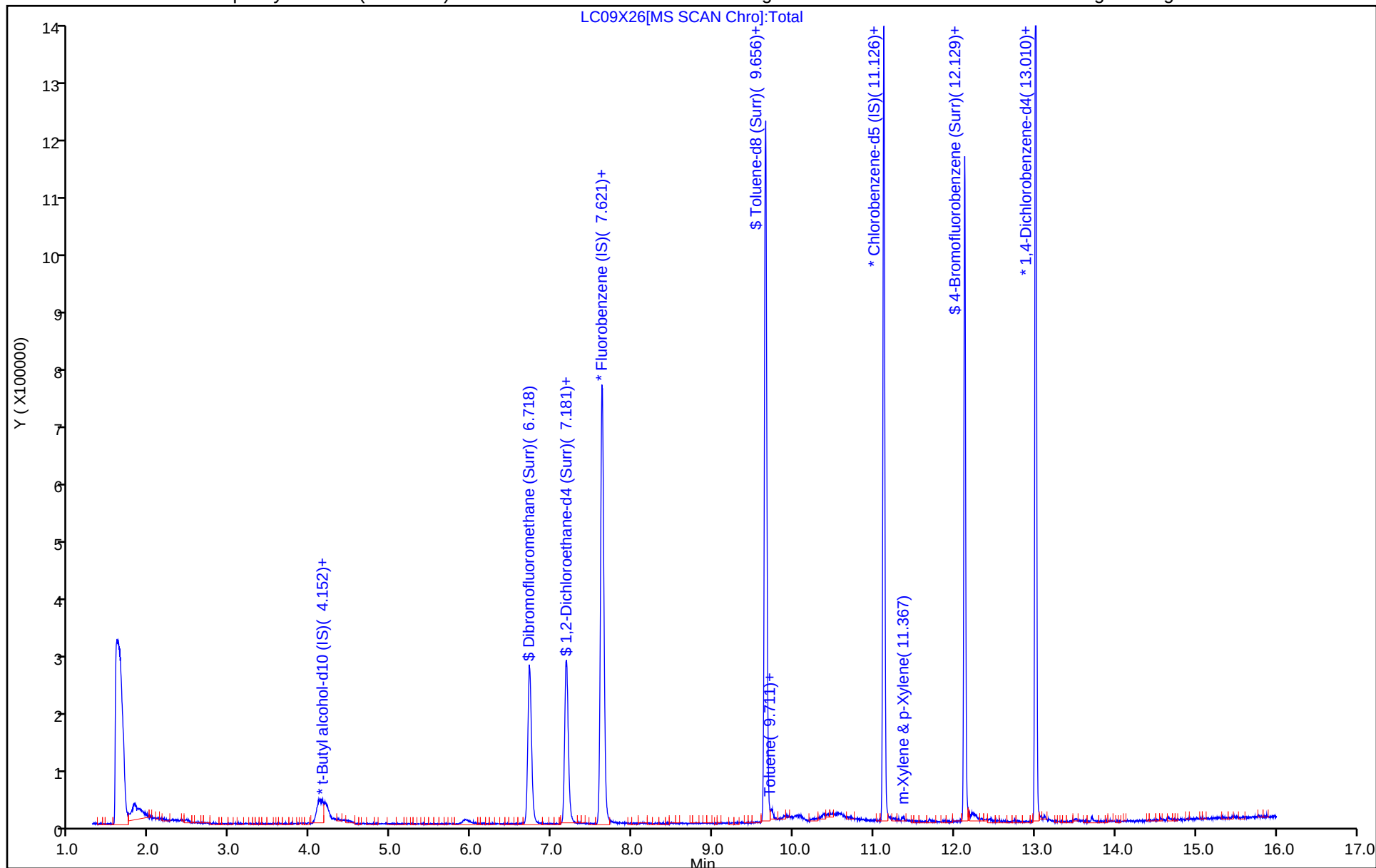
ALS Bottle#: 26

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X26.D
Lims ID: 410-191048-A-16
Client ID: HD-QC2-0/1-4
Sample Type: Client
Inject. Date: 09-Oct-2024 17:56:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127182-027
Operator ID: CLM27445 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 10-Oct-2024 07:48:23 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1653

First Level Reviewer: N9NA

Date: 10-Oct-2024 07:58:45

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	49.5	99.08
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	51.0	102.09
\$ 82 Toluene-d8 (Surr)	50.0	51.0	101.95
\$ 142 4-Bromofluorobenzene (Surr)	50.0	46.1	92.19

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X26.D

Injection Date: 09-Oct-2024 17:56:30

Instrument ID: 9915

Lims ID: 410-191048-A-16

Lab Sample ID: 410-191048-16

Client ID: HD-QC2-0/1-4

Operator ID: CLM27445

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

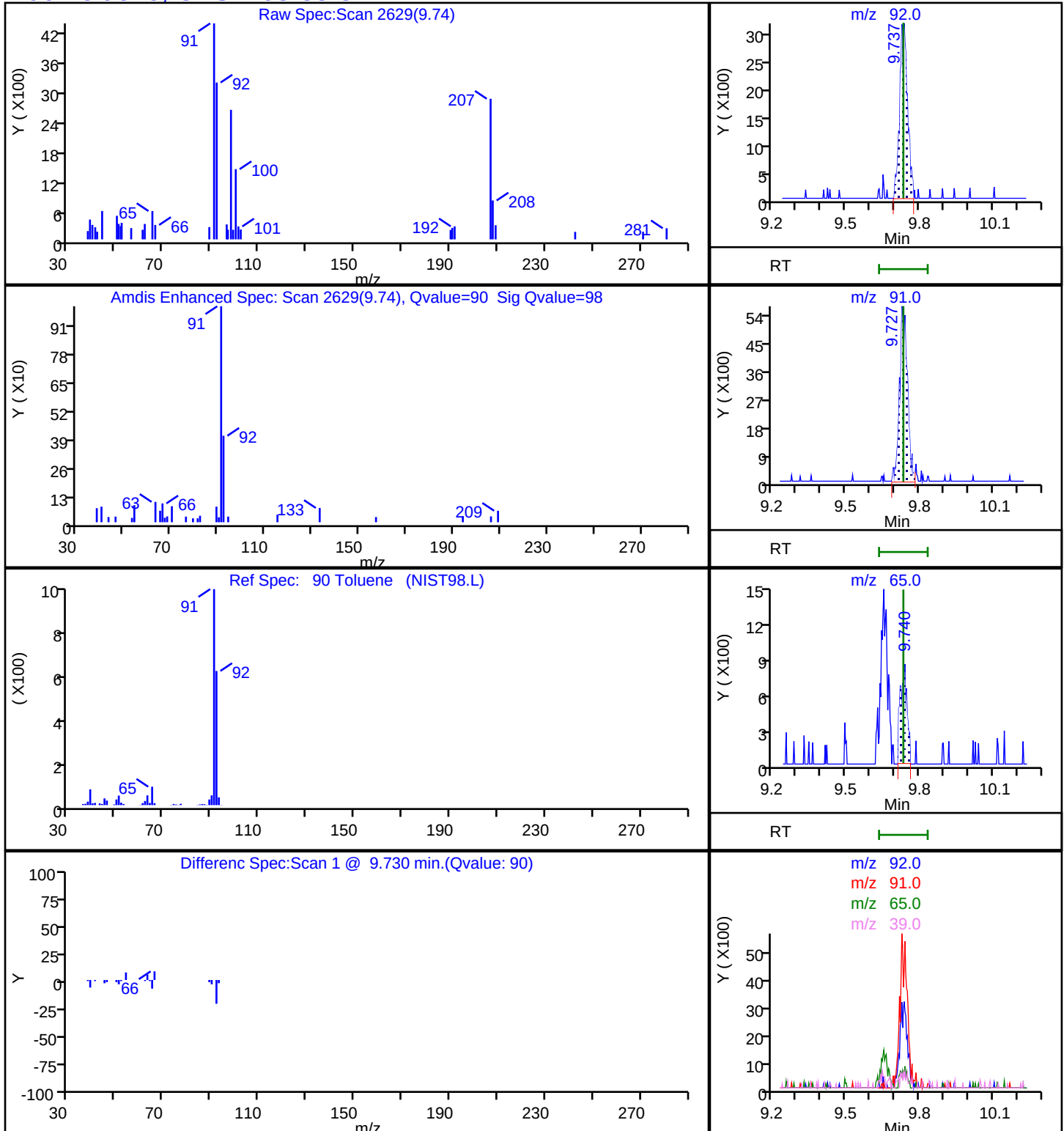
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.)

MS Quad

90 Toluene, CAS: 108-88-3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-QC3-0/1-2

Lab Sample ID: 410-191048-17

Matrix: Water

Lab File ID: LC09X27.D

Analysis Method: 8260D

Date Collected: 10/02/2024 00:00

Sample wt/vol: 5(mL)

Date Analyzed: 10/09/2024 18:19

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560989

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND	^c cn	1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-QC3-0/1-2 Lab Sample ID: 410-191048-17

Matrix: Water Lab File ID: LC09X27.D

Analysis Method: 8260D Date Collected: 10/02/2024 00:00

Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2024 18:19

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 560989 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X27.D
 Lims ID: 410-191048-A-17
 Client ID: HD-QC3-0/1-2
 Sample Type: Client
 Inject. Date: 09-Oct-2024 18:19:30 ALS Bottle#: 27 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127182-028
 Operator ID: CLM27445 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 10-Oct-2024 08:00:05 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1653

First Level Reviewer: N9NA

Date: 10-Oct-2024 08:00:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.145				ND	7
7 Vinyl chloride	62		2.251				ND	
9 Bromomethane	94		2.589				ND	
10 Chloroethane	64		2.653				ND	
18 1,1-Dichloroethene	96		3.476				ND	
19 Acetone	58		3.492				ND	7
23 Carbon disulfide	76	3.753	3.769	-0.016	54	4492	0.2153	
* 28 t-Butyl alcohol-d10 (IS)	65	4.116	4.116	0.000	7	232242	250.0	
27 Methylene Chloride	84		4.116				ND	7
31 Methyl tert-butyl ether	73		4.512				ND	
32 trans-1,2-Dichloroethene	96		4.525				ND	
36 1,1-Dichloroethane	63		5.180				ND	
41 2-Butanone (MEK)	43		6.007				ND	7
42 cis-1,2-Dichloroethene	96		6.023				ND	7
49 Chlorobromomethane	128		6.351				ND	
51 Chloroform	83		6.512				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.721	6.721	0.000	93	268887	49.4	
53 1,1,1-Trichloroethane	97		6.740				ND	
55 Carbon tetrachloride	117		6.959				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.181	7.180	0.001	83	65146	49.6	M
59 Benzene	78		7.222				ND	
60 1,2-Dichloroethane	62		7.286				ND	
* 63 Fluorobenzene (IS)	96	7.621	7.624	-0.003	99	1084604	50.0	
67 Trichloroethene	95		8.110				ND	
70 1,2-Dichloropropane	63		8.434				ND	7
76 Dichlorobromomethane	83		8.785				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	7
80 4-Methyl-2-pentanone (MIBK)	43		9.518				ND	7
\$ 82 Toluene-d8 (Surr)	98	9.656	9.656	0.000	94	1010426	51.3	
90 Toluene	92		9.733				ND	
95 trans-1,3-Dichloropropene	75		9.991				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166		10.293				ND	
121 2-Hexanone	43		10.415				ND	7
123 Chlorodibromomethane	129		10.576				ND	
124 Ethylene Dibromide	107		10.685				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.126	11.126	0.000	85	777234	50.0	
128 Chlorobenzene	112		11.151				ND	7
131 1,1,1,2-Tetrachloroethane	131		11.232				ND	
132 Ethylbenzene	91		11.238				ND	7
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	
136 o-Xylene	106		11.685				ND	
137 Styrene	104		11.701				ND	
138 Bromoform	173		11.855				ND	7
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	349944	45.0	
145 1,1,2,2-Tetrachloroethane	83		12.228				ND	7
* 161 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	444925	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 10-Oct-2024 08:04:46

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X27.D

Injection Date: 09-Oct-2024 18:19:30

Instrument ID: 9915

Operator ID: CLM27445

Lims ID: 410-191048-A-17

Lab Sample ID: 410-191048-17

Worklist Smp#: 28

Client ID: HD-QC3-0/1-2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

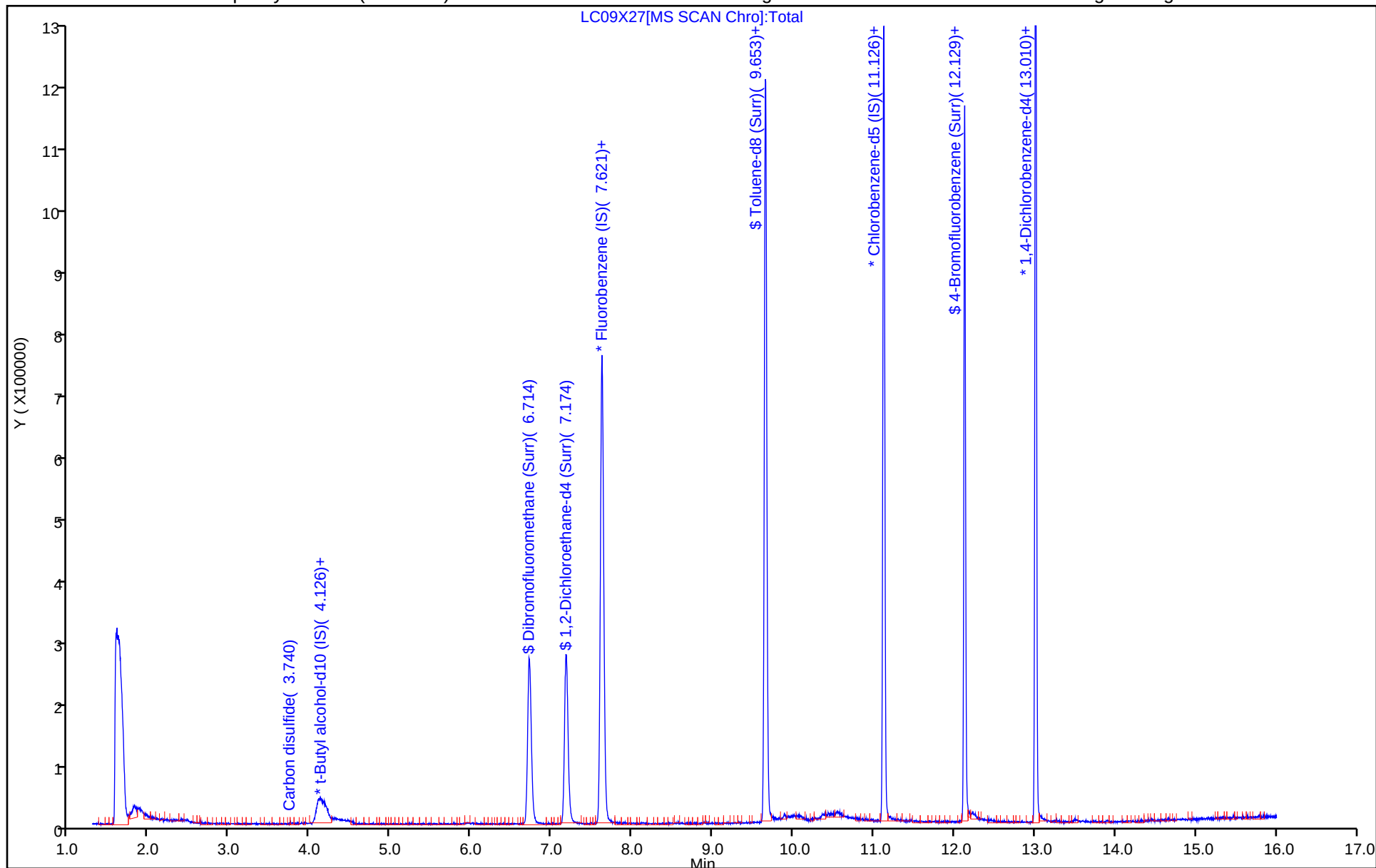
ALS Bottle#: 27

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X27.D
Lims ID: 410-191048-A-17
Client ID: HD-QC3-0/1-2
Sample Type: Client
Inject. Date: 09-Oct-2024 18:19:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127182-028
Operator ID: CLM27445 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 10-Oct-2024 08:00:05 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1653

First Level Reviewer: N9NA

Date: 10-Oct-2024 08:00:05

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	49.4	98.87
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	49.6	99.10
\$ 82 Toluene-d8 (Surr)	50.0	51.3	102.64
\$ 142 4-Bromofluorobenzene (Surr)	50.0	45.0	89.95

Eurofins Lancaster Laboratories Environment Testing, LLC

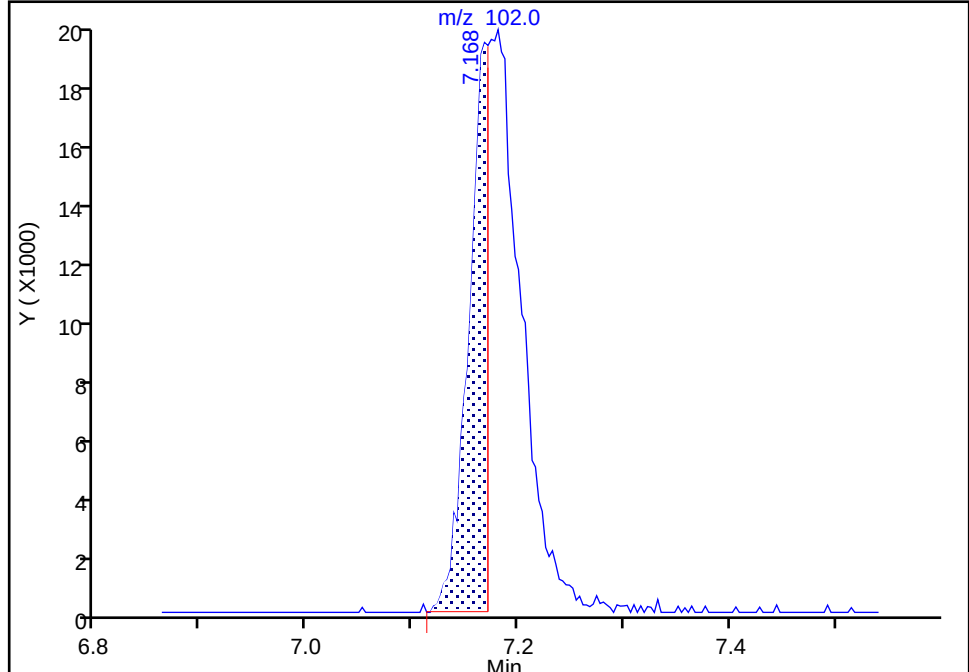
Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X27.D
Injection Date: 09-Oct-2024 18:19:30 Instrument ID: 9915
Lims ID: 410-191048-A-17 Lab Sample ID: 410-191048-17
Client ID: HD-QC3-0/1-2
Operator ID: CLM27445 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

\$ 58 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

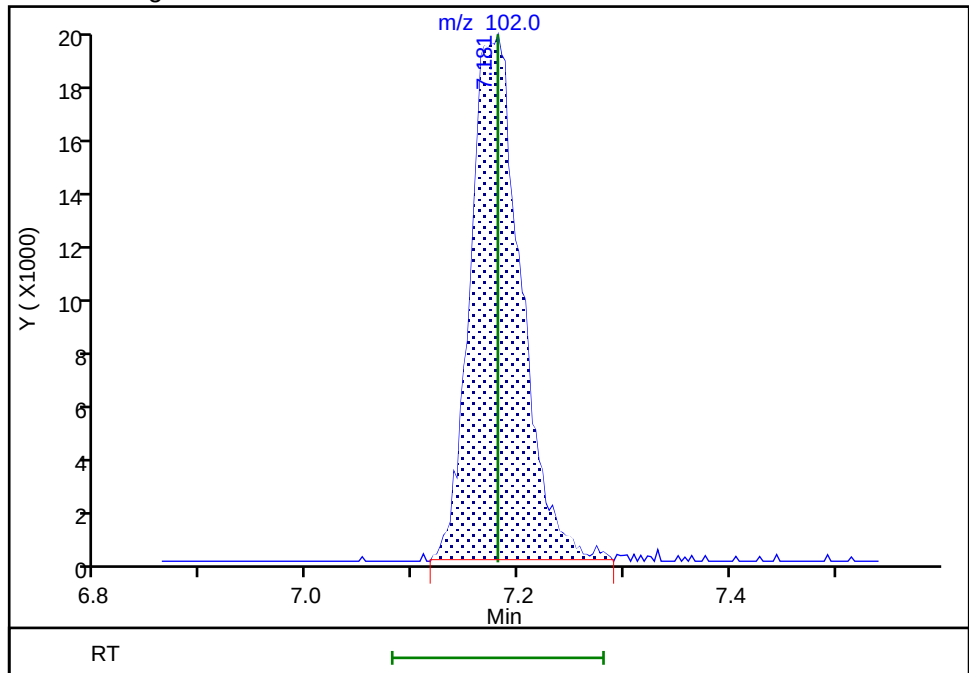
RT: 7.17
Area: 25078
Amount: 19.075262
Amount Units: ug/l

Processing Integration Results



RT: 7.18
Area: 65146
Amount: 49.552478
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 10-Oct-2024 07:59:25 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-MW-110-0/1-0

Lab Sample ID: 410-191048-18

Matrix: Water

Lab File ID: LC09X28.D

Analysis Method: 8260D

Date Collected: 10/03/2024 14:02

Sample wt/vol: 5(mL)

Date Analyzed: 10/09/2024 18:41

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560989

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND	^c cn	1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	0.74	J	1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	19		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-MW-110-0/1-0 Lab Sample ID: 410-191048-18

Matrix: Water Lab File ID: LC09X28.D

Analysis Method: 8260D Date Collected: 10/03/2024 14:02

Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2024 18:41

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 560989 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	0.41	J	1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	88		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X28.D
 Lims ID: 410-191048-A-18
 Client ID: HD-MW-110-0/1-0
 Sample Type: Client
 Inject. Date: 09-Oct-2024 18:41:30 ALS Bottle#: 28 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127182-029
 Operator ID: CLM27445 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 10-Oct-2024 08:00:05 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1653

First Level Reviewer: N9NA

Date: 10-Oct-2024 08:03:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.145				ND	7
7 Vinyl chloride	62		2.251				ND	
9 Bromomethane	94		2.589				ND	
10 Chloroethane	64		2.653				ND	7
18 1,1-Dichloroethene	96		3.476				ND	
19 Acetone	58		3.492				ND	
23 Carbon disulfide	76		3.769				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.103	4.116	-0.013	1	219739	250.0	
27 Methylene Chloride	84		4.116				ND	7
31 Methyl tert-butyl ether	73		4.512				ND	
32 trans-1,2-Dichloroethene	96		4.525				ND	
36 1,1-Dichloroethane	63		5.180				ND	
41 2-Butanone (MEK)	43		6.007				ND	
42 cis-1,2-Dichloroethene	96		6.023				ND	7
49 Chlorobromomethane	128		6.351				ND	
51 Chloroform	83	6.512	6.512	0.000	88	6852	0.7395	
\$ 52 Dibromofluoromethane (Surr)	113	6.724	6.721	0.003	92	257176	49.4	
53 1,1,1-Trichloroethane	97		6.740				ND	
55 Carbon tetrachloride	117		6.959				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.180	-0.003	83	64483	51.2	
59 Benzene	78		7.222				ND	7
60 1,2-Dichloroethane	62		7.286				ND	7
* 63 Fluorobenzene (IS)	96	7.621	7.624	-0.003	99	1038860	50.0	
67 Trichloroethene	95	8.103	8.110	-0.007	39	2216	0.4146	
70 1,2-Dichloropropane	63		8.434				ND	
76 Dichlorobromomethane	83		8.785				ND	
79 cis-1,3-Dichloropropene	75		9.338				ND	7
80 4-Methyl-2-pentanone (MIBK)	43		9.518				ND	7
\$ 82 Toluene-d8 (Surr)	98	9.653	9.656	-0.003	93	983376	50.8	
90 Toluene	92		9.733				ND	7
95 trans-1,3-Dichloropropene	75		9.991				ND	7
117 1,1,2-Trichloroethane	97		10.193				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166	10.290	10.293	-0.003	98	94893	18.6	
121 2-Hexanone	43		10.415				ND	7
123 Chlorodibromomethane	129		10.576				ND	7
124 Ethylene Dibromide	107		10.685				ND	
* 125 Chlorobenzene-d5 (IS)	117	11.126	11.126	0.000	85	764603	50.0	
128 Chlorobenzene	112		11.151				ND	
131 1,1,1,2-Tetrachloroethane	131		11.232				ND	
132 Ethylbenzene	91		11.238				ND	7
S 133 Xylenes, Total	106		11.245				ND	7
134 m-Xylene & p-Xylene	106		11.354				ND	
136 o-Xylene	106		11.685				ND	
137 Styrene	104		11.701				ND	
138 Bromoform	173		11.855				ND	
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	336552	44.0	
145 1,1,2,2-Tetrachloroethane	83		12.228				ND	7
* 161 1,4-Dichlorobenzene-d4	152	13.010	13.013	-0.003	95	426967	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 10-Oct-2024 08:03:16

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X28.D

Injection Date: 09-Oct-2024 18:41:30

Instrument ID: 9915

Operator ID: CLM27445

Lims ID: 410-191048-A-18

Lab Sample ID: 410-191048-18

Worklist Smp#: 29

Client ID: HD-MW-110-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

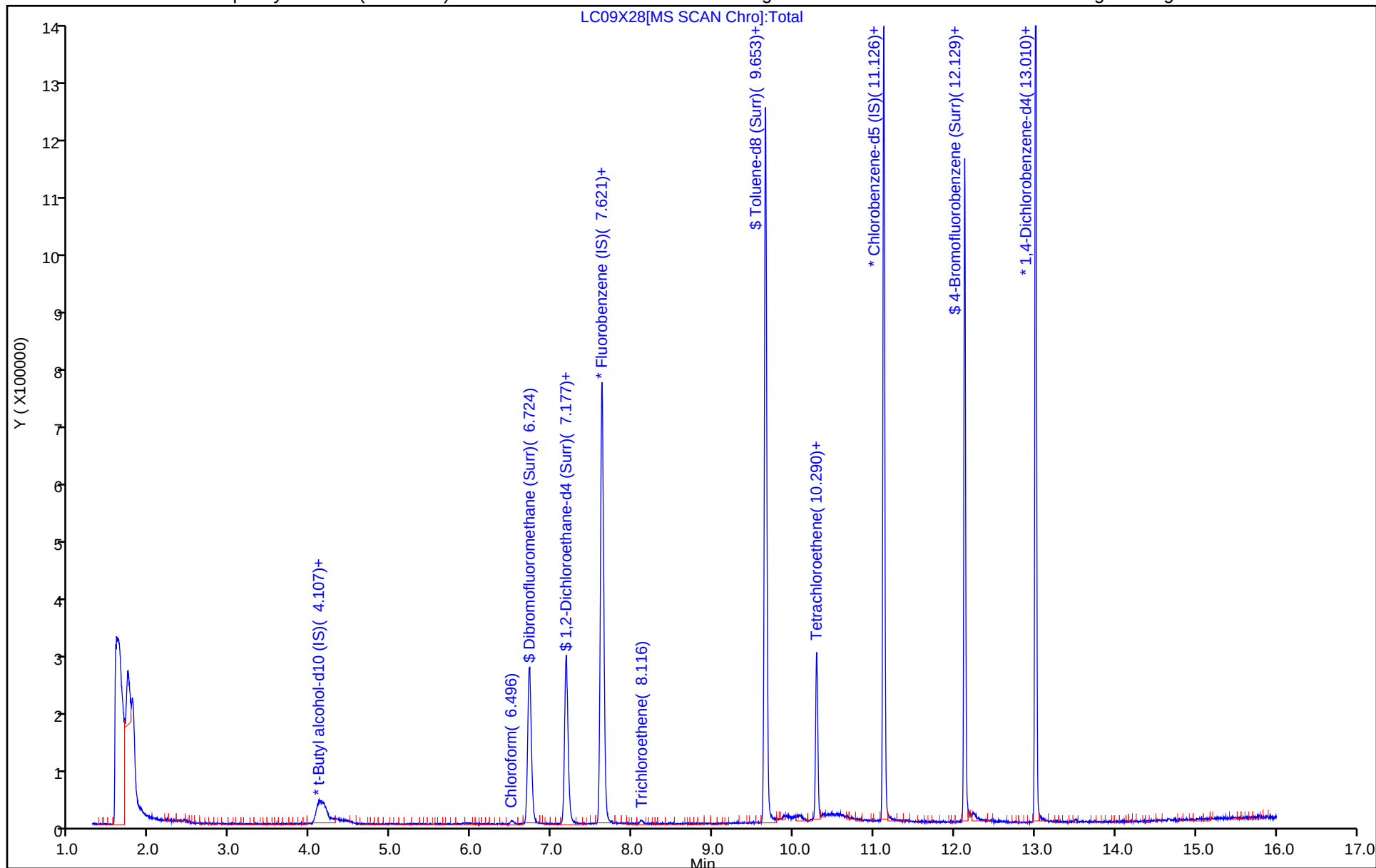
ALS Bottle#: 28

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

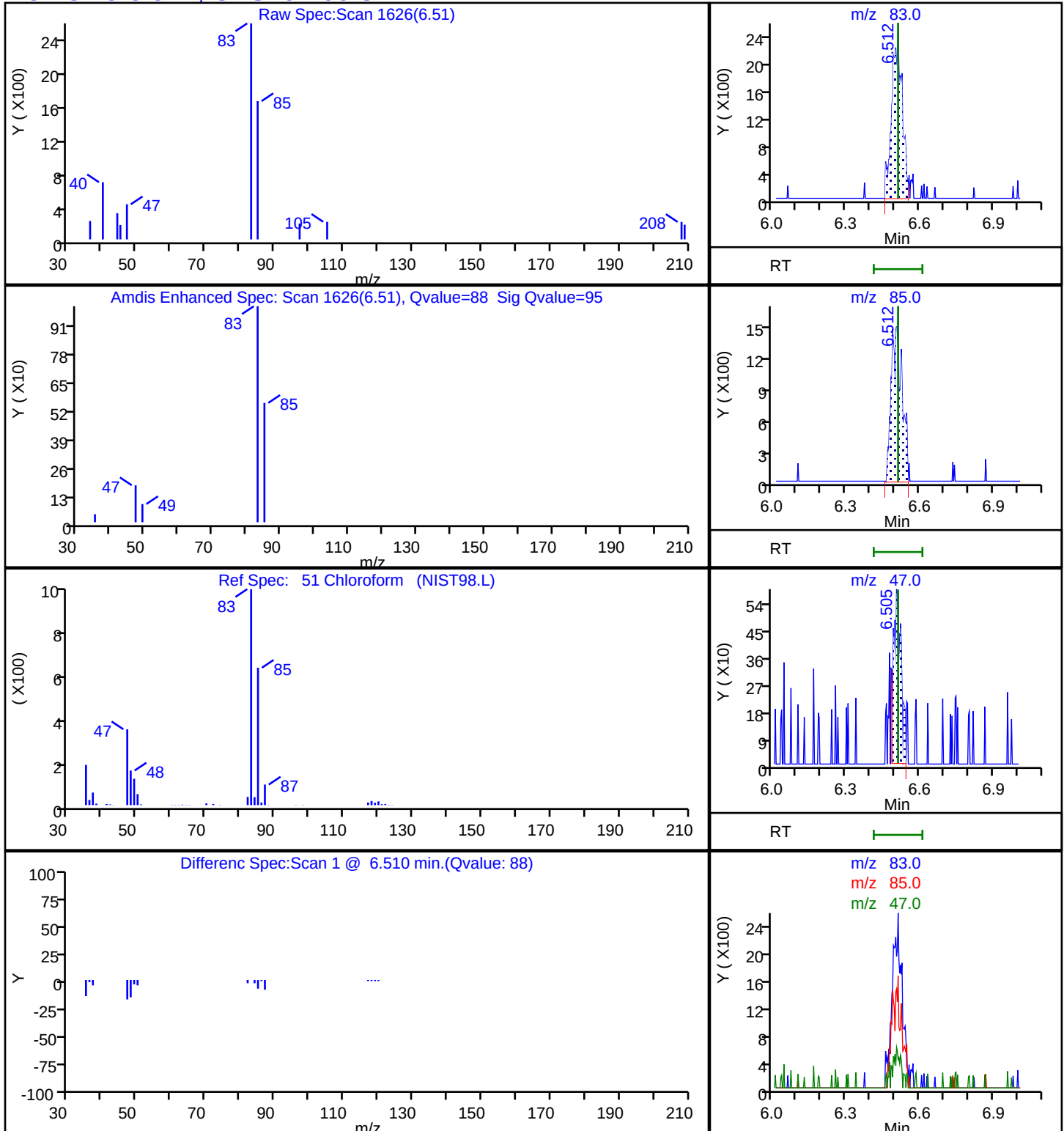
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Lims ID: 410-191048-A-18
Client ID: HD-MW-110-0/1-0
Sample Type: Client
Inject. Date: 09-Oct-2024 18:41:30 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127182-029
Operator ID: CLM27445 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 10-Oct-2024 08:00:05 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1653

First Level Reviewer: N9NA

Date: 10-Oct-2024 08:03:15

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	49.4	98.72
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	51.2	102.42
\$ 82 Toluene-d8 (Surr)	50.0	50.8	101.54
\$ 142 4-Bromofluorobenzene (Surr)	50.0	44.0	87.94

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X28.D
Injection Date: 09-Oct-2024 18:41:30 Instrument ID: 9915
Lims ID: 410-191048-A-18 Lab Sample ID: 410-191048-18
Client ID: HD-MW-110-0/1-0
Operator ID: CLM27445 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm i.d.) MS Quad

51 Chloroform, CAS: 67-66-3

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X28.D

Injection Date: 09-Oct-2024 18:41:30

Instrument ID: 9915

Lims ID: 410-191048-A-18

Lab Sample ID: 410-191048-18

Client ID: HD-MW-110-0/1-0

Operator ID: CLM27445

ALS Bottle#: 28

Worklist Smp#: 29

Purge Vol: 5.000 mL

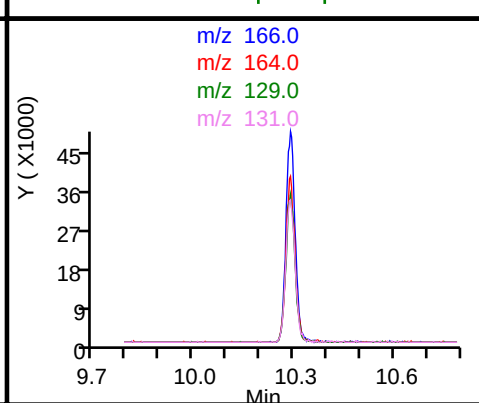
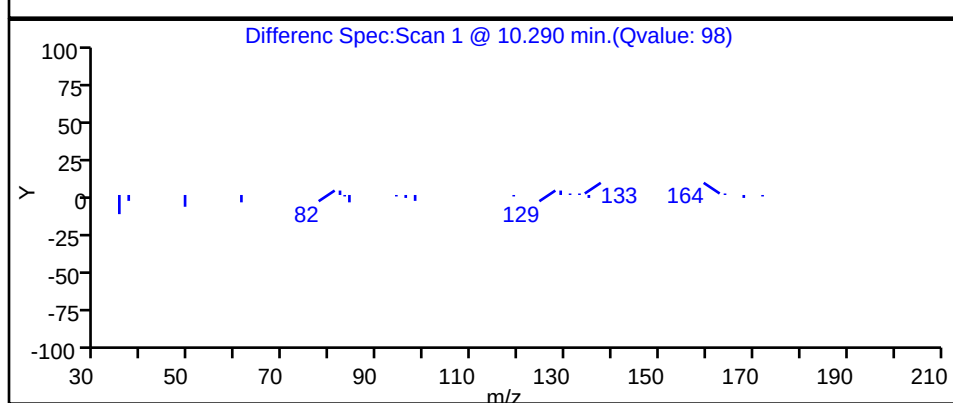
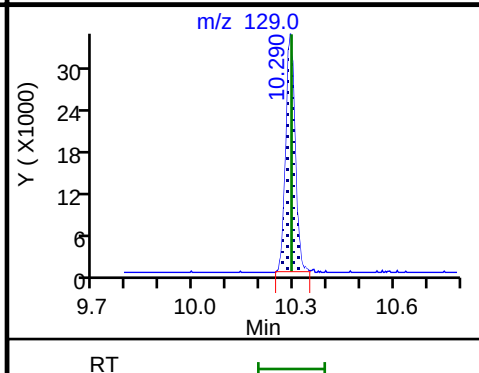
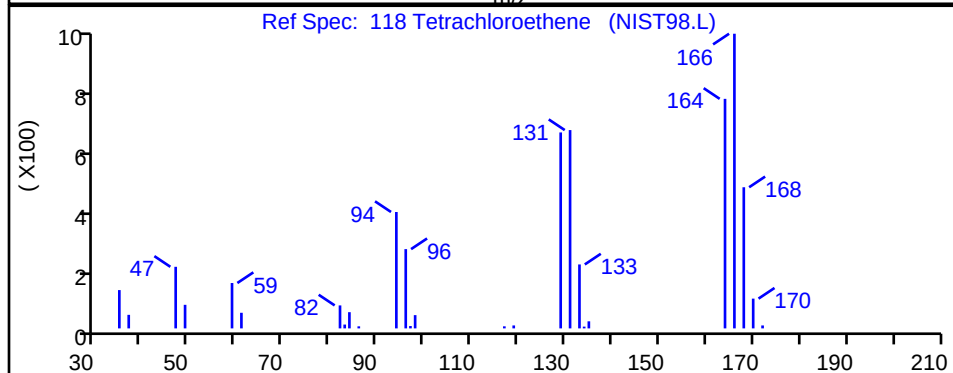
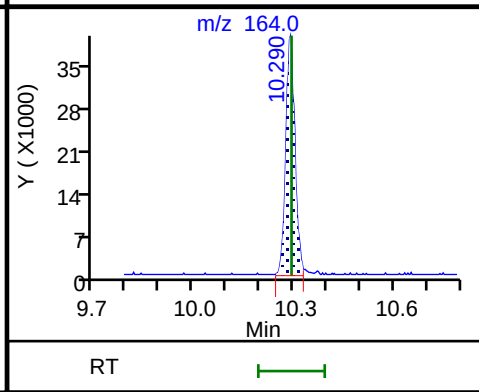
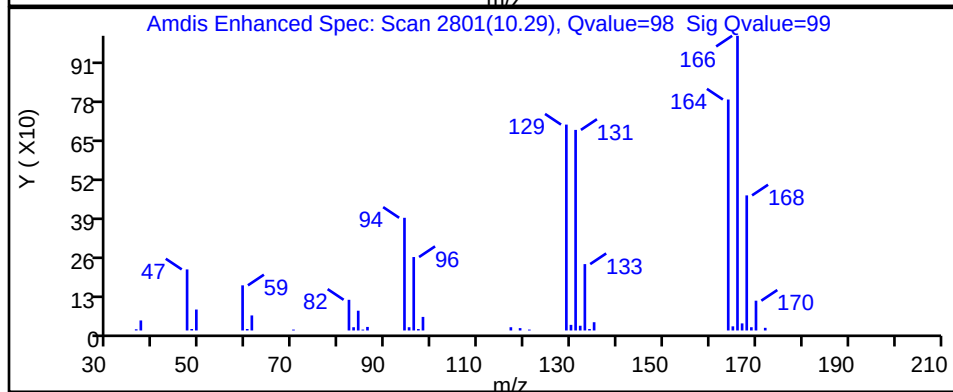
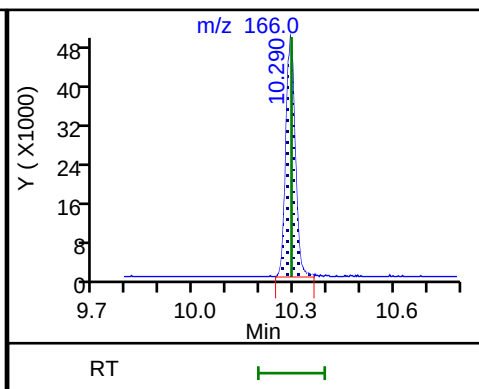
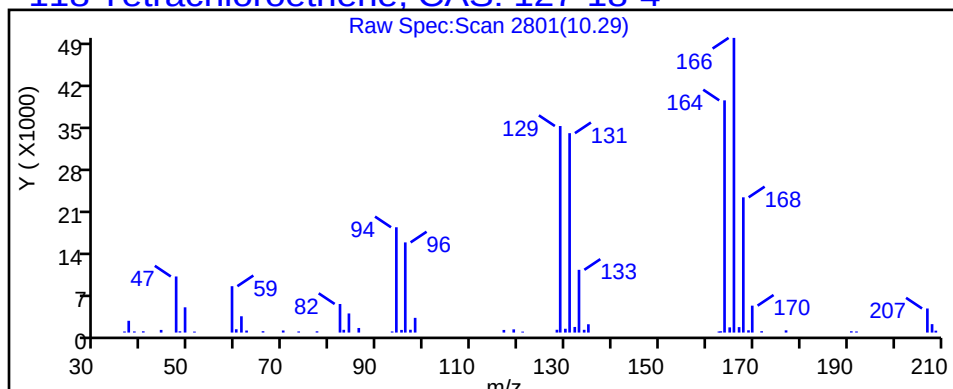
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

118 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X28.D

Injection Date: 09-Oct-2024 18:41:30

Instrument ID: 9915

Lims ID: 410-191048-A-18

Lab Sample ID: 410-191048-18

Client ID: HD-MW-110-0/1-0

Operator ID: CLM27445

ALS Bottle#: 28

Worklist Smp#: 29

Purge Vol: 5.000 mL

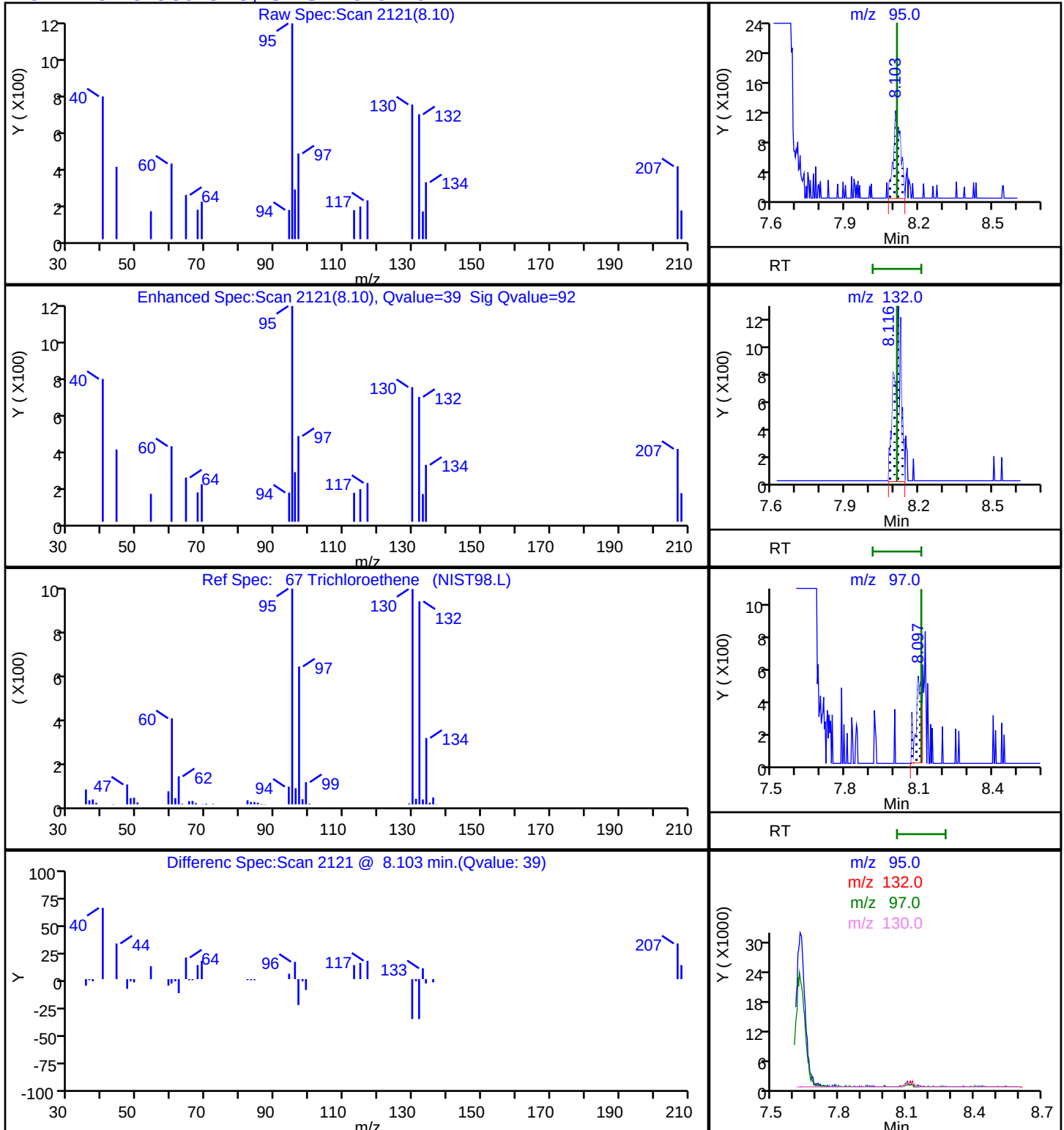
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 150m

MS Quad

67 Trichloroethene, CAS: 79-01-6

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9915 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 14:18 Calibration End Date: 07/15/2024 16:11 Calibration ID: 63832

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-528230/3	LL15X02.D
Level 2	IC 410-528230/4	LL15X03.D
Level 3	IC 410-528230/5	LL15X04.D
Level 4	IC 410-528230/6	LL15X05.D
Level 5	IC 410-528230/7	LL15X06.D
Level 6	IC 410-528230/8	LL15X07.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	0.2567 0.2548	0.2056	0.2374	0.2595	0.2691	Ave		0.247 2				9.2		20.0			
Chlorodifluoromethane	9.4981 8.9308	8.1924	9.2760	9.3840	9.6100	Ave		9.148 6				5.7		20.0			
Freon 133a	0.4142 0.4149	0.3646	0.4036	0.4243	0.4273	Ave		0.408 1				5.6		20.0			
Ethanol	0.0638 0.0646	0.0687	0.0649	0.0640	0.0628	Ave		0.064 8				3.2		20.0			
Acetonitrile	++++ 1.0057	1.1033	1.0614	1.0422	1.0344	Ave		1.049 4				3.5		20.0			
Vinyl acetate	0.5371 0.5684	0.5210	0.5454	0.5436	0.5129	Ave		0.538 1				3.6		20.0			
Ethyl acetate	0.2599 0.2969	0.2843	0.2737	0.2821	0.2832	Ave		0.280 0				4.4		20.0			
Isopropyl acetate	0.5447 0.6149	0.5803	0.5805	0.5945	0.5900	Ave		0.584 1				4.0		20.0			
n-Propyl acetate	0.1049 0.1248	0.1094	0.1122	0.1195	0.1176	Ave		0.114 7				6.3		20.0			
3,4-Dichloro-1-butene	0.3294 0.3629	0.3337	0.3341	0.3508	0.3601	Ave		0.345 2				4.2		20.0			
Butyl acetate	0.5960 0.6371	0.6230	0.6063	0.6298	0.6325	Ave		0.620 8				2.6		20.0			
cis-1,4-Dichloro-2-butene	0.1526 0.1820	0.1624	0.1588	0.1738	0.1773	Ave		0.167 8				6.9		20.0			
Pentachloroethane	0.3588 0.4567	0.3762	0.3639	0.3760	0.3081	Ave		0.373 3				12.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 14:18 Calibration End Date: 07/15/2024 16:11 Calibration ID: 63832

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-528230/3	LL15X02.D
Level 2	IC 410-528230/4	LL15X03.D
Level 3	IC 410-528230/5	LL15X04.D
Level 4	IC 410-528230/6	LL15X05.D
Level 5	IC 410-528230/7	LL15X06.D
Level 6	IC 410-528230/8	LL15X07.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	23716 1744981	49464	113402	305333	626991	4.00 300	10.0	20.0	50.0	100
Chlorodifluoromethane	TBA d1 0	Ave	46483 3304483	100597	221657	577959	1153471	4.00 300	10.0	20.0	50.0	100
Freon 133a	FB	Ave	38271 2841612	87721	192759	499347	995746	4.00 300	10.0	20.0	50.0	100
Ethanol	TBA d1 0	Ave	19506 597380	42182	77587	98511	188400	250 7500	500	1000	1250	2500
Acetonitrile	TBA d1 0	Ave	++++ 1860511	67740	126816	320929	620769	++++ 1500	50.0	100	250	500
Vinyl acetate	FB	Ave	49623 3893040	125368	260476	639757	1195241	4.00 300	10.0	20.0	50.0	100
Ethyl acetate	FB	Ave	24017 2033746	68409	130716	332014	659940	4.00 300	10.0	20.0	50.0	100
Isopropyl acetate	FB	Ave	50332 4212078	139618	277219	699592	1374957	4.00 300	10.0	20.0	50.0	100
n-Propyl acetate	FB	Ave	9691 854597	26317	53588	140582	274130	4.00 300	10.0	20.0	50.0	100
3,4-Dichloro-1-butene	CBZ d5	Ave	22799 1942678	60148	123012	328113	636831	4.00 300	10.00	20.0	50.0	100.0
Butyl acetate	CBZ d5	Ave	41253 3410486	112284	223250	589134	1118632	4.00 300	10.0	20.0	50.0	100
cis-1,4-Dichloro-2-butene	CBZ d5	Ave	10560 973975	29263	58454	162578	313461	4.00 300	10.00	20.0	50.0	100.0
Pentachloroethane	DCB d4	Ave	14953 1446446	40826	80051	212659	327916	4.00 300	10.0	20.0	50.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

Analy Batch No.: 528230

SDG No.:

Instrument ID: 9915

GC Column: R-624SilMS ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 14:18

Calibration End Date: 07/15/2024 16:11

Calibration ID: 63832

Curve Type Legend:

Ave = Average ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9915 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 14:18 Calibration End Date: 07/15/2024 16:11 Calibration ID: 63832

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-528230/3	LL15X02.D
Level 2	IC 410-528230/4	LL15X03.D
Level 3	IC 410-528230/5	LL15X04.D
Level 4	IC 410-528230/6	LL15X05.D
Level 5	IC 410-528230/7	LL15X06.D
Level 6	IC 410-528230/8	LL15X07.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Chlorotrifluoroethene	3.9	-16.8	-3.9	5.0	8.9	3.1	50	30	30	30	30	30
Chlorodifluoromethane	3.8	-10.5	1.4	2.6	5.0	-2.4	50	30	30	30	30	30
Freon 133a	1.5	-10.7	-1.1	4.0	4.7	1.6	50	30	30	30	30	30
Ethanol	-1.6	6.0	0.2	-1.3	-3.1	-0.3	50	30	30	30	30	30
Acetonitrile	+++++	5.1	1.1	-0.7	-1.4	-4.2		50	30	30	30	30
Vinyl acetate	-0.2	-3.2	1.4	1.0	-4.7	5.6	50	30	30	30	30	30
Ethyl acetate	-7.2	1.5	-2.3	0.7	1.1	6.0	50	30	30	30	30	30
Isopropyl acetate	-6.7	-0.7	-0.6	1.8	1.0	5.3	50	30	30	30	30	30
n-Propyl acetate	-8.6	-4.7	-2.2	4.1	2.5	8.8	50	30	30	30	30	30
3,4-Dichloro-1-butene	-4.6	-3.3	-3.2	1.6	4.3	5.1	50	30	30	30	30	30
Butyl acetate	-4.0	0.3	-2.3	1.5	1.9	2.6	50	30	30	30	30	30
cis-1,4-Dichloro-2-butene	-9.1	-3.2	-5.4	3.6	5.6	8.4	50	30	30	30	30	30
Pentachloroethane	-3.9	0.8	-2.5	0.7	-17.5	22.3	50	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X02.D
 Lims ID: IC sm v4
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 15-Jul-2024 14:18:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119345-003
 Misc. Info.: IC SM V4
 Operator ID: knk41612 Instrument ID: 9915
 Sublist: chrom-MSVoa_9915a*sub46
 Method: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 16-Jul-2024 20:47:03 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1659

First Level Reviewer: DVW2

Date: 16-Jul-2024 08:01:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	1.904	1.901	0.003	44	23716	4.00	4.15	
3 Chlorodifluoromethane	51	1.946	1.946	0.000	97	46483	4.00	4.15	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.319	2.313	0.006	33	38271	4.00	4.06	
14 Ethanol	45	3.078	3.097	-0.019	90	19506	250.0	246.1	M
23 Acetonitrile	41	3.872	3.891	-0.019	87	48360	20.0	37.7	M
* 28 t-Butyl alcohol-d10 (IS)	65	4.181	4.181	0.000	1	305870	250.0	250.0	
36 Vinyl acetate	43	5.200	5.187	0.013	97	49623	4.00	3.99	
44 Ethyl acetate	43	6.071	6.068	0.003	88	24017	4.00	3.71	
60 Isopropyl acetate	43	7.306	7.309	-0.003	98	50332	4.00	3.73	
* 62 Fluorobenzene (IS)	96	7.624	7.631	-0.007	99	1154938	50.0	50.0	
74 n-Propyl acetate	61	8.621	8.608	0.013	99	9691	4.00	3.66	a
126 3,4-Dichloro-1-butene	75	10.399	10.399	0.000	91	22799	4.00	3.82	
127 n-Butyl acetate	43	10.547	10.544	0.003	98	41253	4.00	3.84	
* 130 Chlorobenzene-d5 (IS)	117	11.126	11.129	-0.003	85	865196	50.0	50.0	
144 cis-1,4-Dichloro-2-butene	88	12.036	12.032	0.004	93	10560	4.00	3.64	
155 Pentachloroethane	167	12.727	12.727	0.000	89	14953	4.00	3.84	
* 160 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	520920	50.0	50.0	

QC Flag Legend

Processing Flags

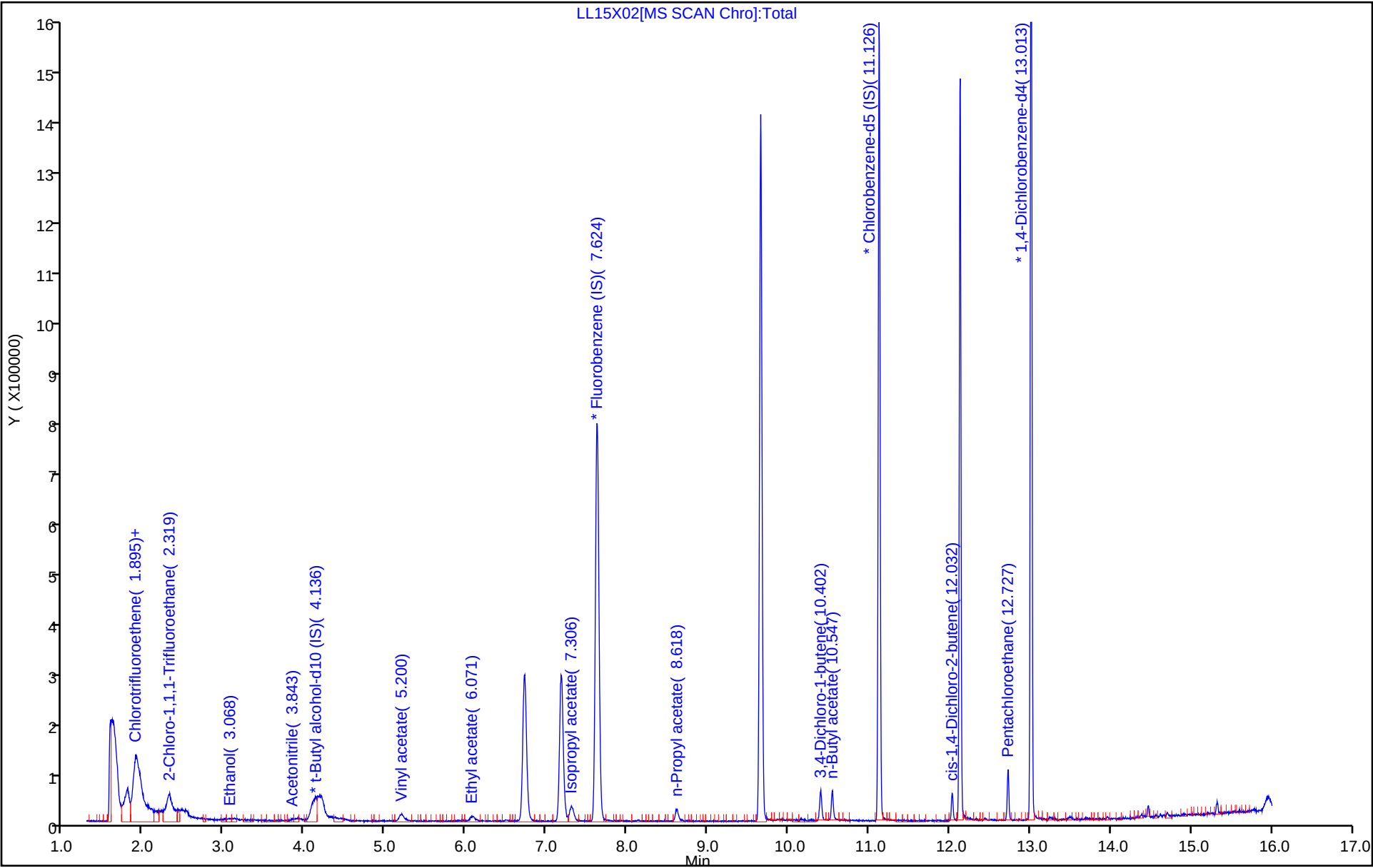
Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00038	Amount Added: 4.00	Units: uL
MSV_CCV_LKB_00010	Amount Added: 4.00	Units: uL
MSV_V_SMFreon_00044	Amount Added: 2.00	Units: uL
MSV_HP23_ISO_00008	Amount Added: 1.00	Units: uL
MSV_CCV_Penta_00051	Amount Added: 4.00	Units: uL
MSV_CCV_ETOH_00006	Amount Added: 20.00	Units: uL



Eurofins Lancaster Laboratories Environment Testing, LLC

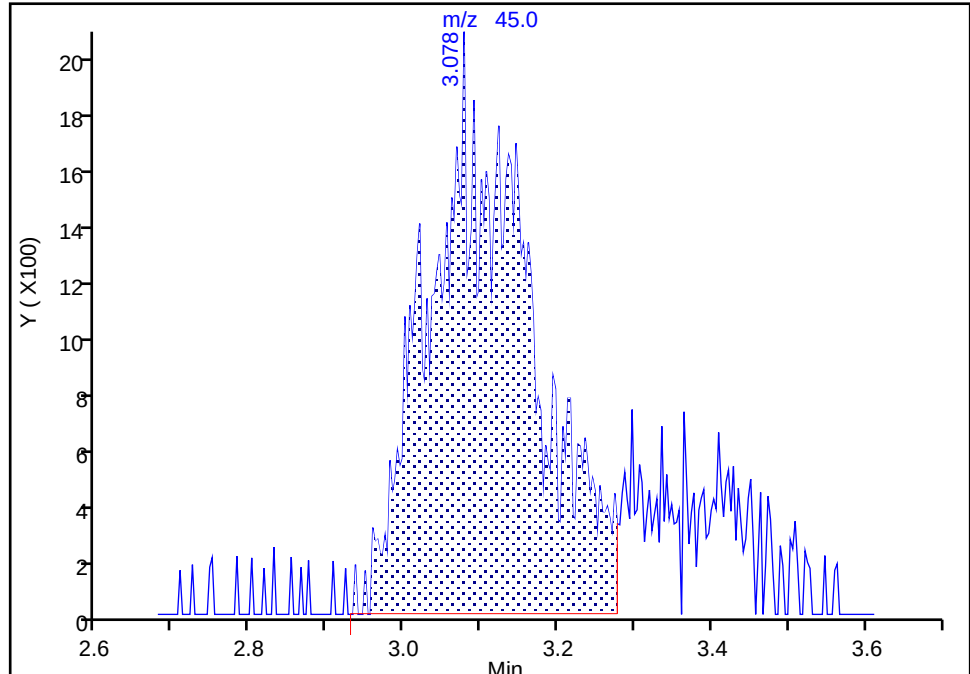
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X02.D
Injection Date: 15-Jul-2024 14:18:30 Instrument ID: 9915
Lims ID: IC sm v4
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

14 Ethanol, CAS: 64-17-5

Signal: 1

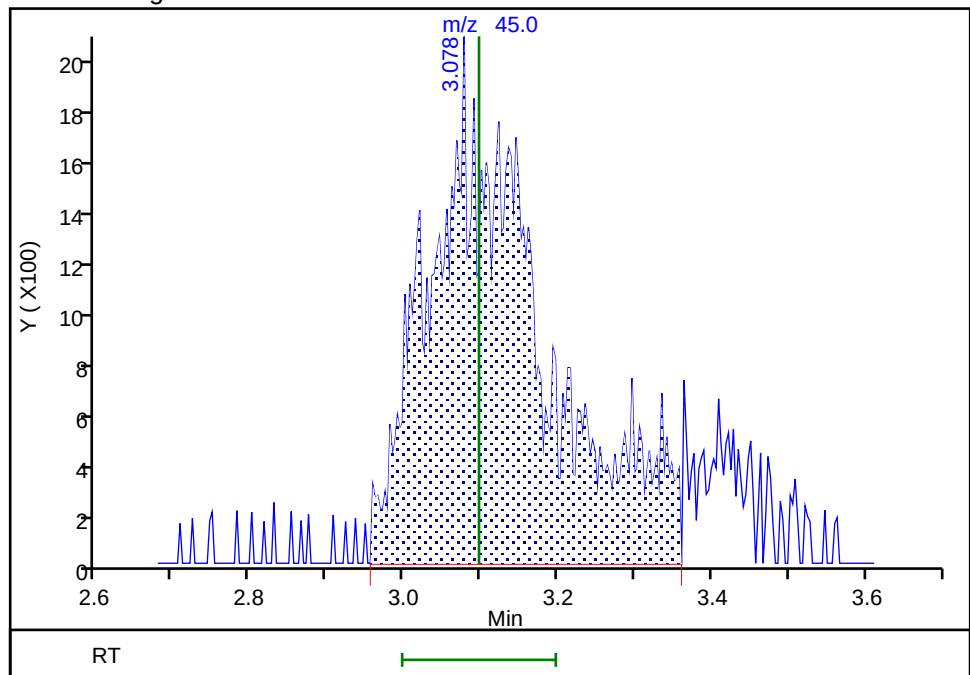
RT: 3.08
Area: 17632
Amount: 225.9915
Amount Units: ug/l

Processing Integration Results



RT: 3.08
Area: 19506
Amount: 246.0706
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 16-Jul-2024 19:24:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

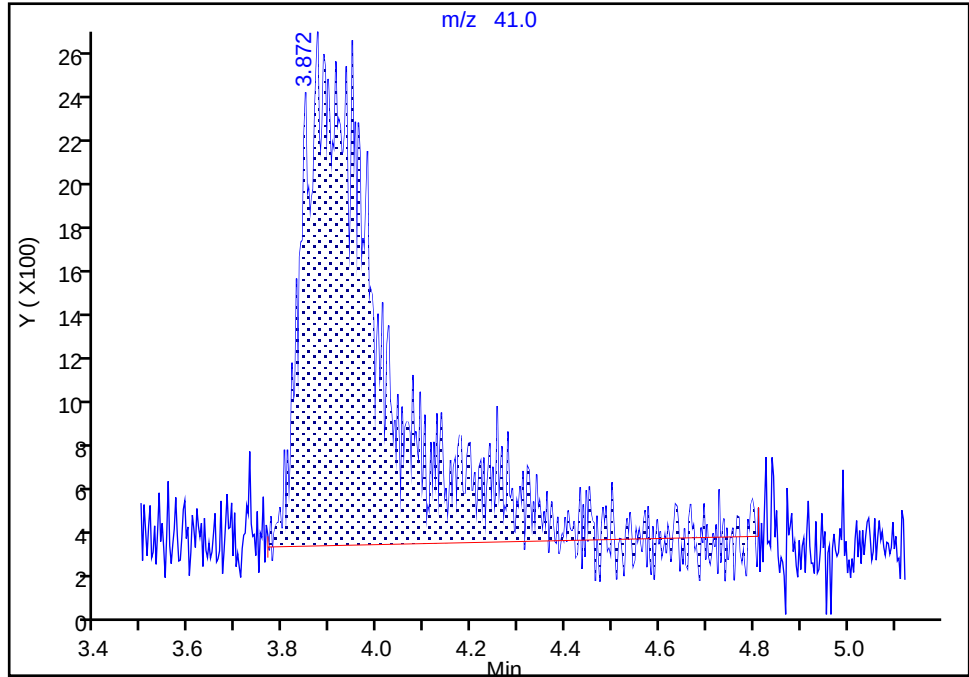
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X02.D
Injection Date: 15-Jul-2024 14:18:30 Instrument ID: 9915
Lims ID: IC sm v4
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Acetonitrile, CAS: 75-05-8

Signal: 1

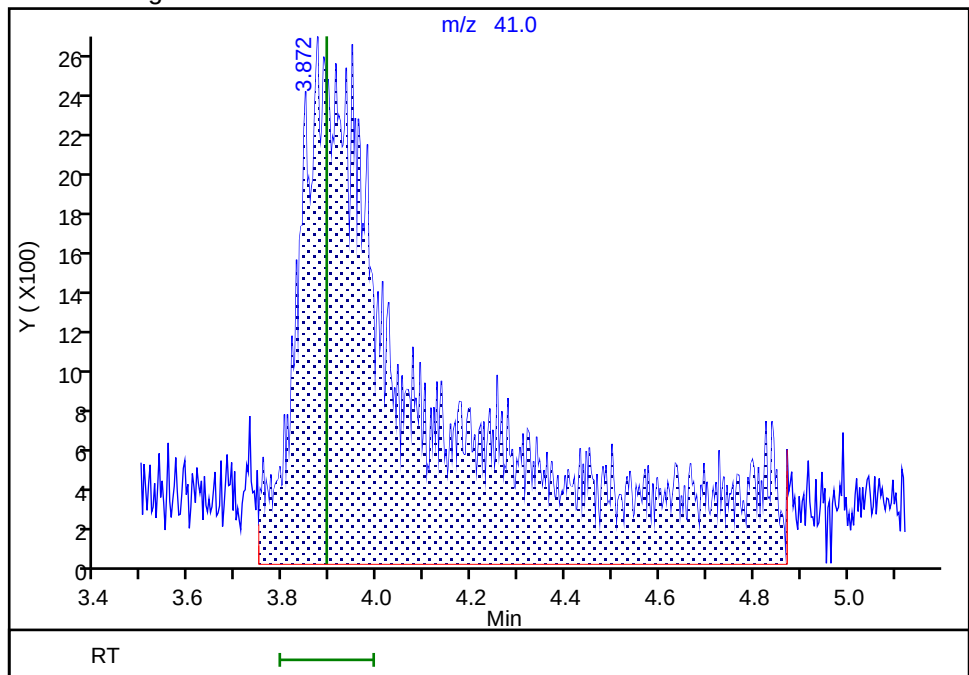
RT: 3.87
Area: 25646
Amount: 19.979247
Amount Units: ug/l

Processing Integration Results



RT: 3.87
Area: 48360
Amount: 37.666533
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:01:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

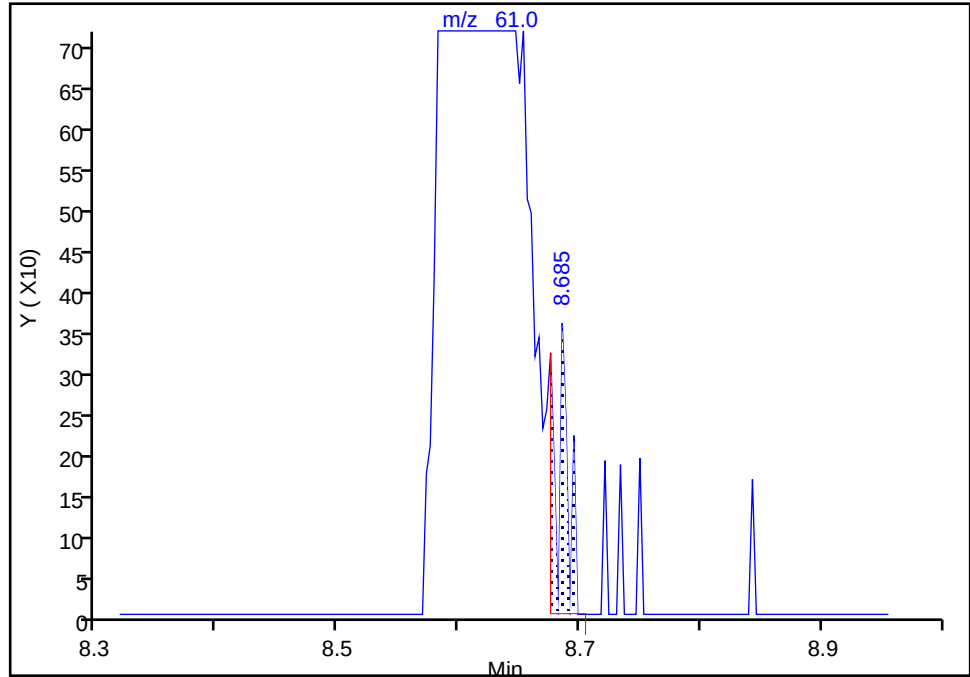
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Injection Date: 15-Jul-2024 14:18:30 Instrument ID: 9915
Lims ID: IC sm v4
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 n-Propyl acetate, CAS: 109-60-4

Signal: 1

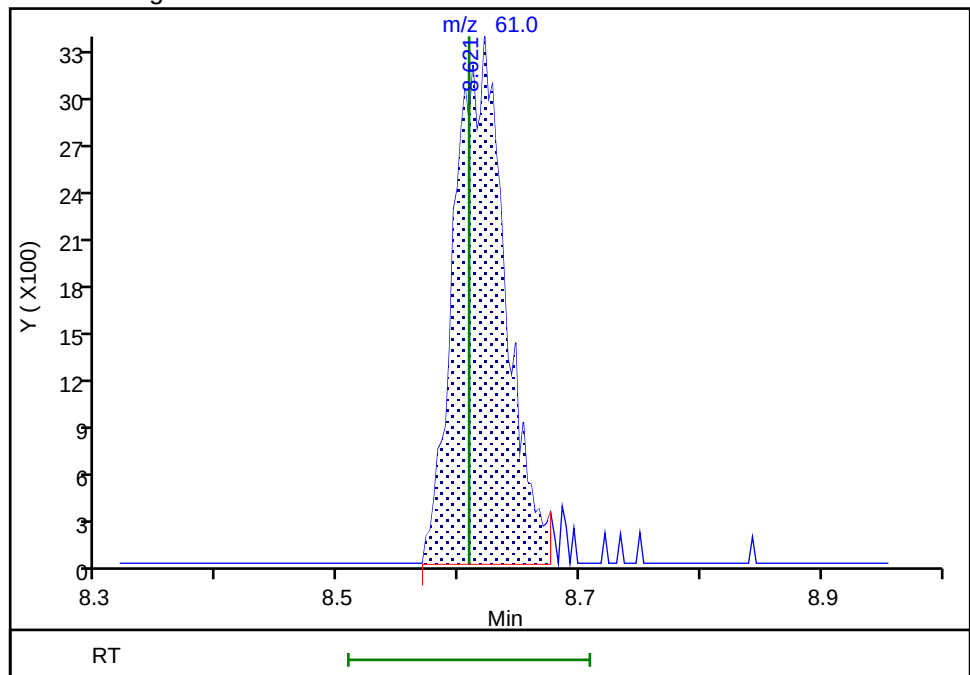
RT: 8.69
Area: 254
Amount: 3.150082
Amount Units: ug/l

Processing Integration Results



RT: 8.62
Area: 9691
Amount: 3.657103
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:01:25 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X03.D
 Lims ID: IC sm v10
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 15-Jul-2024 14:41:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119345-004
 Misc. Info.: IC SM V10
 Operator ID: knk41612 Instrument ID: 9915
 Sublist: chrom-MSVoa_9915a*sub46
 Method: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 16-Jul-2024 20:47:04 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1659

First Level Reviewer: DVW2

Date: 16-Jul-2024 08:01:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	1.914	1.901	0.013	77	49464	10.0	8.32	
3 Chlorodifluoromethane	51	1.962	1.946	0.016	97	100597	10.0	8.95	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.319	2.313	0.006	46	87721	10.0	8.93	
14 Ethanol	45	3.139	3.097	0.042	90	42182	500.0	530.2	
23 Acetonitrile	41	3.895	3.891	0.004	98	67740	50.0	52.6	
* 28 t-Butyl alcohol-d10 (IS)	65	4.200	4.181	0.019	1	306984	250.0	250.0	
36 Vinyl acetate	43	5.197	5.187	0.010	97	125368	10.0	9.68	
44 Ethyl acetate	43	6.078	6.068	0.010	99	68409	10.0	10.2	
60 Isopropyl acetate	43	7.319	7.309	0.010	98	139618	10.0	9.93	
* 62 Fluorobenzene (IS)	96	7.628	7.631	-0.003	99	1203064	50.0	50.0	
74 n-Propyl acetate	61	8.618	8.608	0.010	99	26317	10.0	9.53	
126 3,4-Dichloro-1-butene	75	10.402	10.399	0.003	91	60148	10.0	9.67	
127 n-Butyl acetate	43	10.544	10.544	0.000	98	112284	10.0	10.0	
* 130 Chlorobenzene-d5 (IS)	117	11.129	11.129	0.000	85	901217	50.0	50.0	
144 cis-1,4-Dichloro-2-butene	88	12.036	12.032	0.004	95	29263	10.0	9.68	
155 Pentachloroethane	167	12.727	12.727	0.000	89	40826	10.0	10.1	
* 160 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	542622	50.0	50.0	

QC Flag Legend

Processing Flags

Reagents:

MSV_CCV_V5ACE_00038	Amount Added: 2.00	Units: uL
MSV_CCV_LKB_00010	Amount Added: 2.00	Units: uL
MSV_V_SMFreon_00044	Amount Added: 1.00	Units: uL
MSV_HP23_ISO_00008	Amount Added: 1.00	Units: uL
MSV_CCV_Penta_00051	Amount Added: 2.00	Units: uL
MSV_CCV_ETOH_00006	Amount Added: 8.00	Units: uL

Report Date: 16-Jul-2024 20:47:05

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X03.D

Injection Date: 15-Jul-2024 14:41:30

Instrument ID: 9915

Operator ID: knk41612

Lims ID: IC sm v10

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

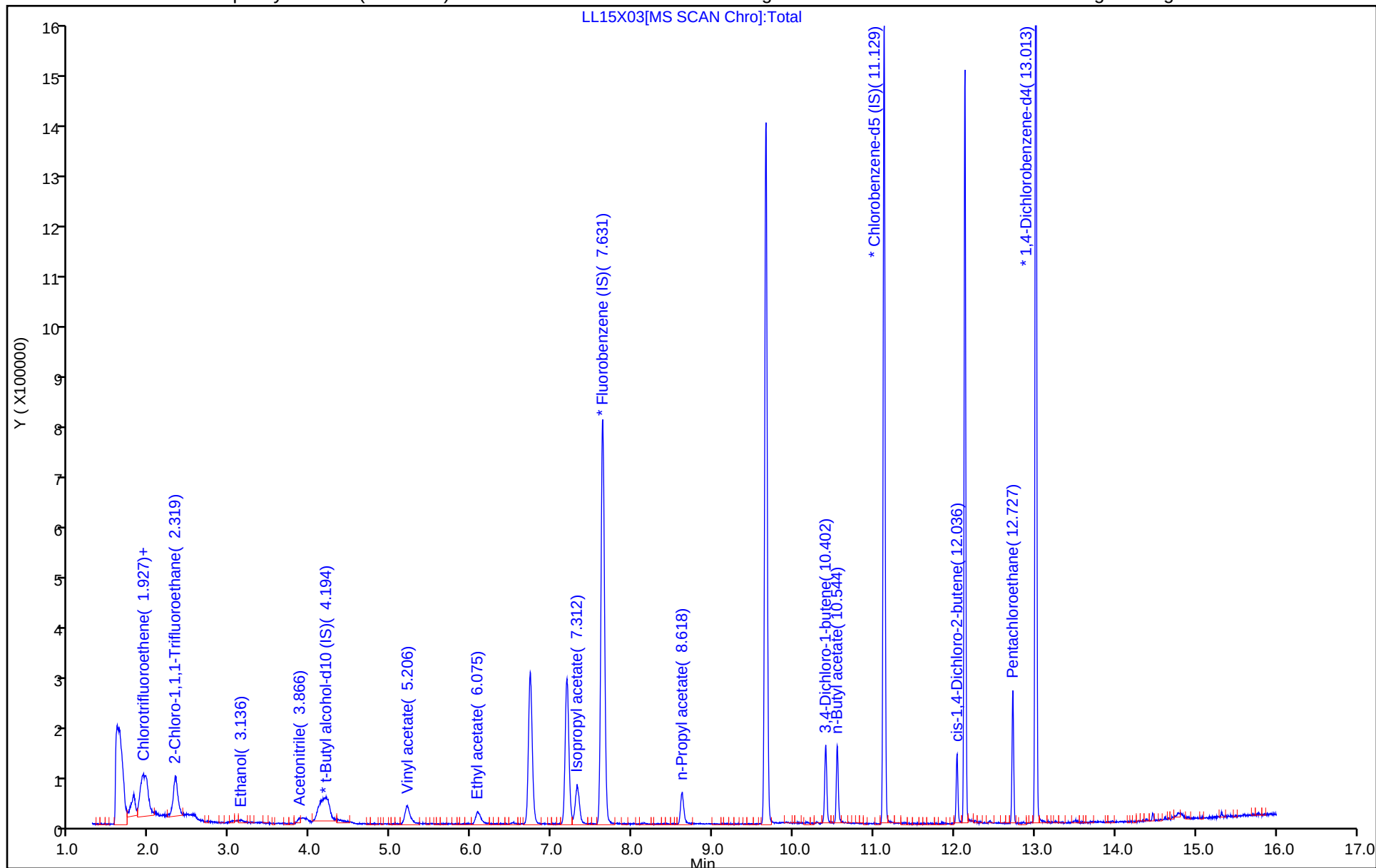
ALS Bottle#: 3

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X04.D
 Lims ID: IC sm v20
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 15-Jul-2024 15:03:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119345-005
 Misc. Info.: IC SM V20
 Operator ID: knk41612 Instrument ID: 9915
 Sublist: chrom-MSVoa_9915a*sub46
 Method: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 16-Jul-2024 20:47:06 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1659

First Level Reviewer: DVW2

Date: 16-Jul-2024 08:01:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	1.904	1.901	0.003	78	113402	20.0	19.2	
3 Chlorodifluoromethane	51	1.965	1.946	0.019	98	221657	20.0	20.3	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.322	2.313	0.009	97	192759	20.0	19.8	
14 Ethanol	45	3.110	3.097	0.013	94	77587	1000.0	1002.3	
23 Acetonitrile	41	3.878	3.891	-0.013	96	126816	100.0	101.1	
* 28 t-Butyl alcohol-d10 (IS)	65	4.187	4.181	0.006	1	298696	250.0	250.0	
36 Vinyl acetate	43	5.193	5.187	0.006	97	260476	20.0	20.3	
44 Ethyl acetate	43	6.081	6.068	0.013	99	130716	20.0	19.5	
60 Isopropyl acetate	43	7.316	7.309	0.007	97	277219	20.0	19.9	
* 62 Fluorobenzene (IS)	96	7.631	7.631	0.000	99	1193983	50.0	50.0	
74 n-Propyl acetate	61	8.615	8.608	0.007	99	53588	20.0	19.6	
126 3,4-Dichloro-1-butene	75	10.402	10.399	0.003	91	123012	20.0	19.4	
127 n-Butyl acetate	43	10.544	10.544	0.000	98	223250	20.0	19.5	
* 130 Chlorobenzene-d5 (IS)	117	11.129	11.129	0.000	85	920510	50.0	50.0	
144 cis-1,4-Dichloro-2-butene	88	12.032	12.032	0.000	96	58454	20.0	18.9	
155 Pentachloroethane	167	12.727	12.727	0.000	91	80051	20.0	19.5	
* 160 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	549960	50.0	50.0	

QC Flag Legend

Processing Flags

Reagents:

MSV_CCV_V5ACE_00038	Amount Added: 4.00	Units: uL
MSV_CCV_LKB_00010	Amount Added: 4.00	Units: uL
MSV_V_SMFreon_00044	Amount Added: 2.00	Units: uL
MSV_HP23_ISO_00008	Amount Added: 1.00	Units: uL
MSV_CCV_Penta_00051	Amount Added: 4.00	Units: uL
MSV_CCV_ETOH_00006	Amount Added: 16.00	Units: uL

Report Date: 16-Jul-2024 20:47:06

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X04.D

Injection Date: 15-Jul-2024 15:03:30

Instrument ID: 9915

Operator ID: knk41612

Lims ID: IC sm v20

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

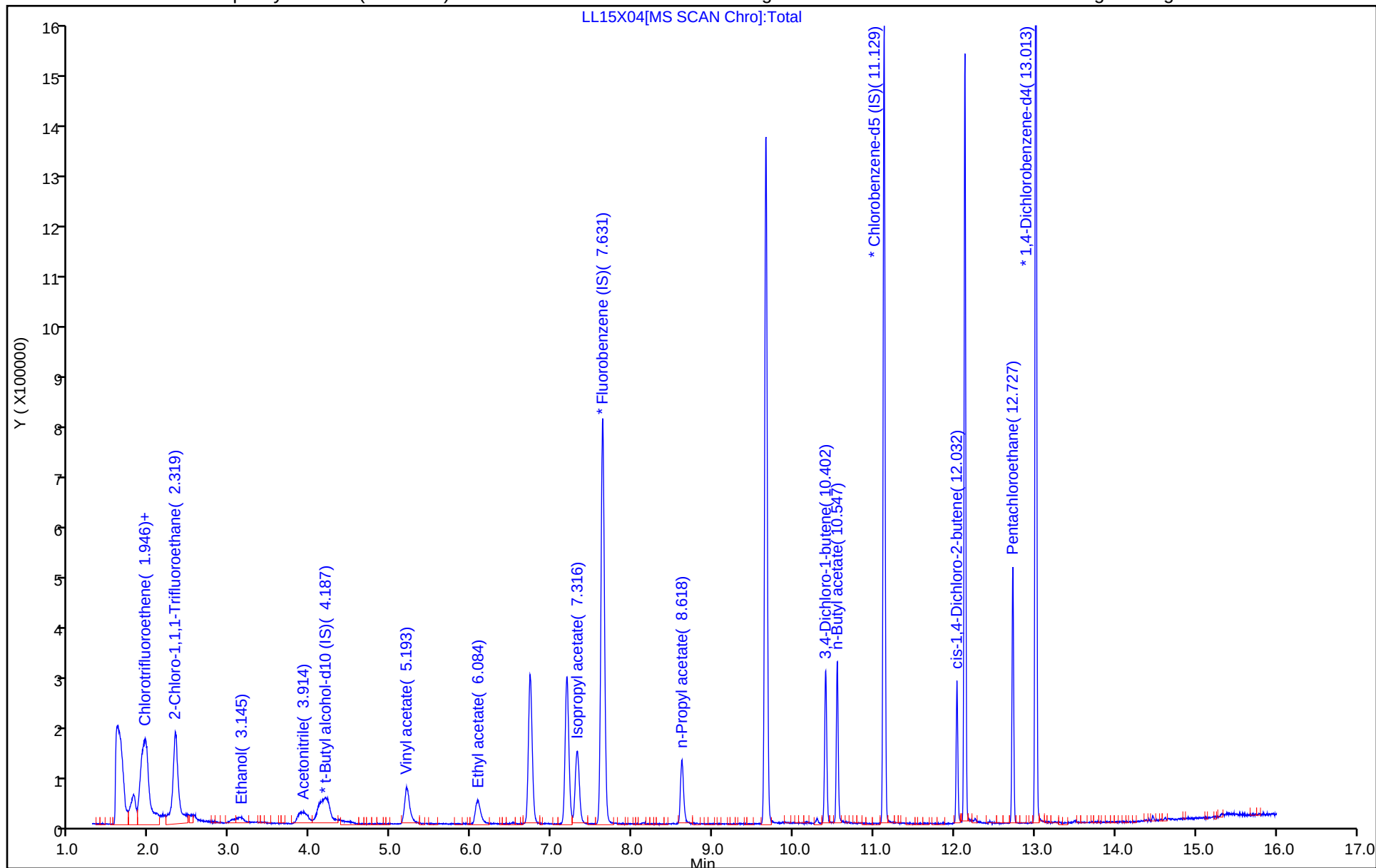
ALS Bottle#: 4

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X05.D
 Lims ID: IC sm v50
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 15-Jul-2024 15:26:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119345-006
 Misc. Info.: IC SM V50
 Operator ID: knk41612 Instrument ID: 9915
 Sublist: chrom-MSVoa_9915a*sub46
 Method: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 16-Jul-2024 20:47:08 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1659

First Level Reviewer: DVW2

Date: 15-Jul-2024 16:14:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	1.901	1.901	0.000	91	305333	50.0	52.5	
3 Chlorodifluoromethane	51	1.946	1.946	0.000	97	577959	50.0	51.3	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.313	2.313	0.000	34	499347	50.0	52.0	
14 Ethanol	45	3.097	3.097	0.000	92	98511	1250.0	1234.3	
23 Acetonitrile	41	3.891	3.891	0.000	99	320929	250.0	248.3	
* 28 t-Butyl alcohol-d10 (IS)	65	4.181	4.181	0.000	24	307948	250.0	250.0	
36 Vinyl acetate	43	5.187	5.187	0.000	97	639757	50.0	50.5	
44 Ethyl acetate	43	6.068	6.068	0.000	99	332014	50.0	50.4	
60 Isopropyl acetate	43	7.309	7.309	0.000	98	699592	50.0	50.9	
* 62 Fluorobenzene (IS)	96	7.628	7.628	0.000	99	1176815	50.0	50.0	
74 n-Propyl acetate	61	8.608	8.608	0.000	99	140582	50.0	52.1	
126 3,4-Dichloro-1-butene	75	10.399	10.399	0.000	92	328113	50.0	50.8	
127 n-Butyl acetate	43	10.544	10.544	0.000	98	589134	50.0	50.7	
* 130 Chlorobenzene-d5 (IS)	117	11.126	11.126	0.000	85	935377	50.0	50.0	
144 cis-1,4-Dichloro-2-butene	88	12.032	12.032	0.000	98	162578	50.0	51.8	
155 Pentachloroethane	167	12.727	12.727	0.000	92	212659	50.0	50.4	
* 160 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	565579	50.0	50.0	

QC Flag Legend

Processing Flags

Reagents:

MSV_CCV_V5ACE_00038	Amount Added: 5.00	Units: uL
MSV_CCV_LKB_00010	Amount Added: 5.00	Units: uL
MSV_V_SMFreon_00044	Amount Added: 2.50	Units: uL
MSV_HP23_ISO_00008	Amount Added: 1.00	Units: uL
MSV_CCV_Penta_00051	Amount Added: 5.00	Units: uL
MSV_CCV_ETOH_00006	Amount Added: 10.00	Units: uL

Report Date: 16-Jul-2024 20:47:08

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X05.D

Injection Date: 15-Jul-2024 15:26:30

Instrument ID: 9915

Operator ID: knk41612

Lims ID: IC sm v50

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

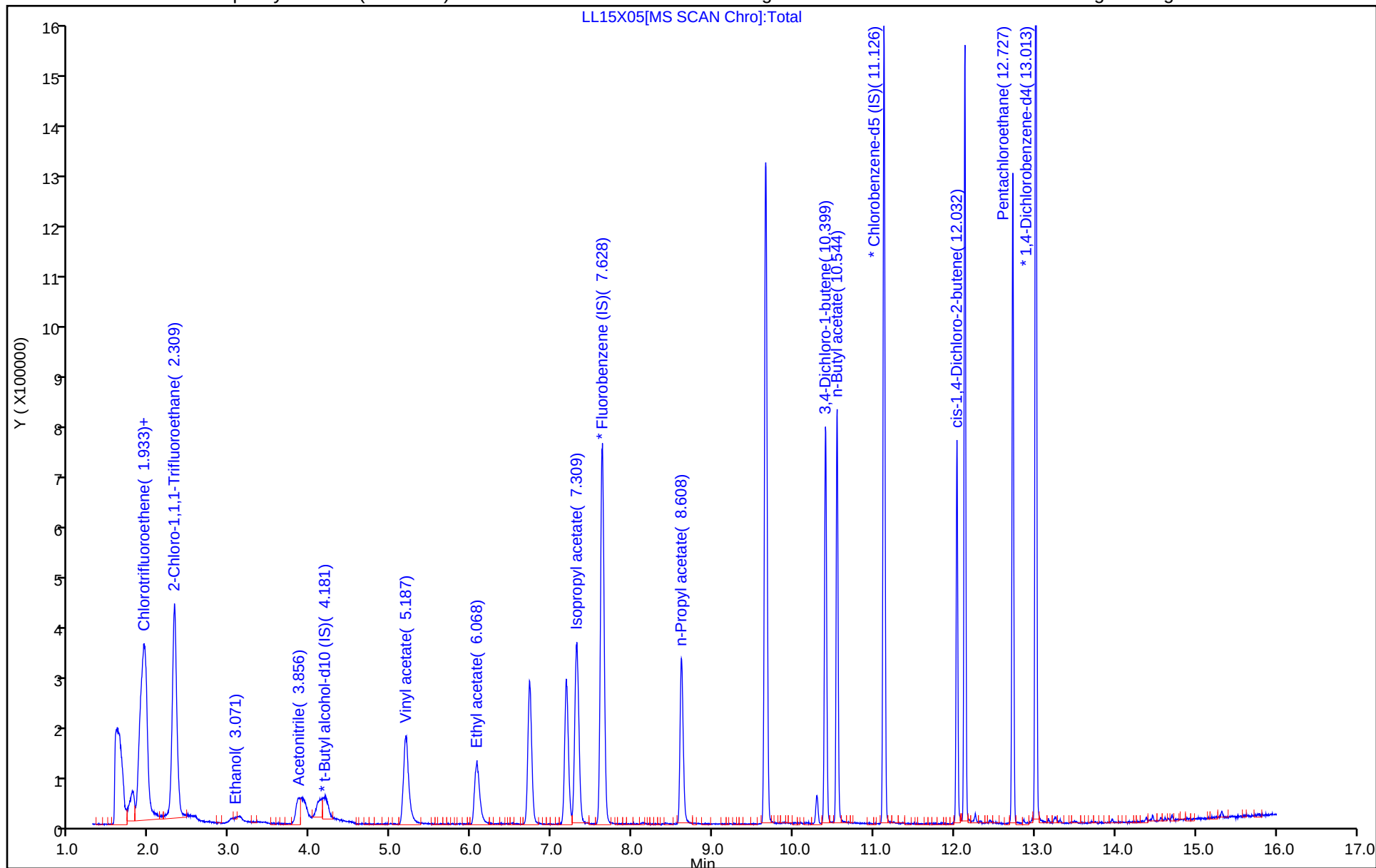
ALS Bottle#: 5

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X06.D
 Lims ID: IC sm v100
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 15-Jul-2024 15:48:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119345-007
 Misc. Info.: IC SM V100
 Operator ID: knk41612 Instrument ID: 9915
 Sublist: chrom-MSVoa_9915a*sub46
 Method: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 16-Jul-2024 20:47:11 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1659

First Level Reviewer: DVW2

Date: 16-Jul-2024 08:00:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	1.904	1.901	0.003	92	626991	100.0	108.9	
3 Chlorodifluoromethane	51	1.959	1.946	0.013	97	1153471	100.0	105.0	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.322	2.313	0.009	36	995746	100.0	104.7	
14 Ethanol	45	3.107	3.097	0.010	98	188400	2500.1	2422.6	
23 Acetonitrile	41	3.862	3.891	-0.029	97	620769	500.0	492.8	
* 28 t-Butyl alcohol-d10 (IS)	65	4.184	4.181	0.003	4	300070	250.0	250.0	
36 Vinyl acetate	43	5.193	5.187	0.006	97	1195241	100.0	95.3	
44 Ethyl acetate	43	6.074	6.068	0.006	99	659940	100.0	101.1	
60 Isopropyl acetate	43	7.312	7.309	0.003	98	1374957	100.0	101.0	
* 62 Fluorobenzene (IS)	96	7.631	7.628	0.003	99	1165166	50.0	50.0	
74 n-Propyl acetate	61	8.611	8.608	0.003	99	274130	100.0	102.5	
126 3,4-Dichloro-1-butene	75	10.399	10.399	0.000	92	636831	100.0	104.3	
127 n-Butyl acetate	43	10.544	10.544	0.000	98	1118632	100.0	101.9	
* 130 Chlorobenzene-d5 (IS)	117	11.129	11.126	0.003	85	884319	50.0	50.0	
144 cis-1,4-Dichloro-2-butene	88	12.032	12.032	0.000	98	313461	100.0	105.6	
155 Pentachloroethane	167	12.727	12.727	0.000	92	327916	100.0	82.5	
* 160 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	532120	50.0	50.0	

QC Flag Legend

Processing Flags

Reagents:

MSV_CCV_V5ACE_00038	Amount Added: 5.00	Units: uL
MSV_CCV_LKB_00010	Amount Added: 5.00	Units: uL
MSV_V_SMFreon_00044	Amount Added: 2.50	Units: uL
MSV_HP23_ISO_00008	Amount Added: 1.00	Units: uL
MSV_CCV_Penta_00051	Amount Added: 5.00	Units: uL
MSV_CCV_ETOH_00006	Amount Added: 10.00	Units: uL

Report Date: 16-Jul-2024 20:47:11

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X06.D

Injection Date: 15-Jul-2024 15:48:30

Instrument ID: 9915

Operator ID: knk41612

Lims ID: IC sm v100

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

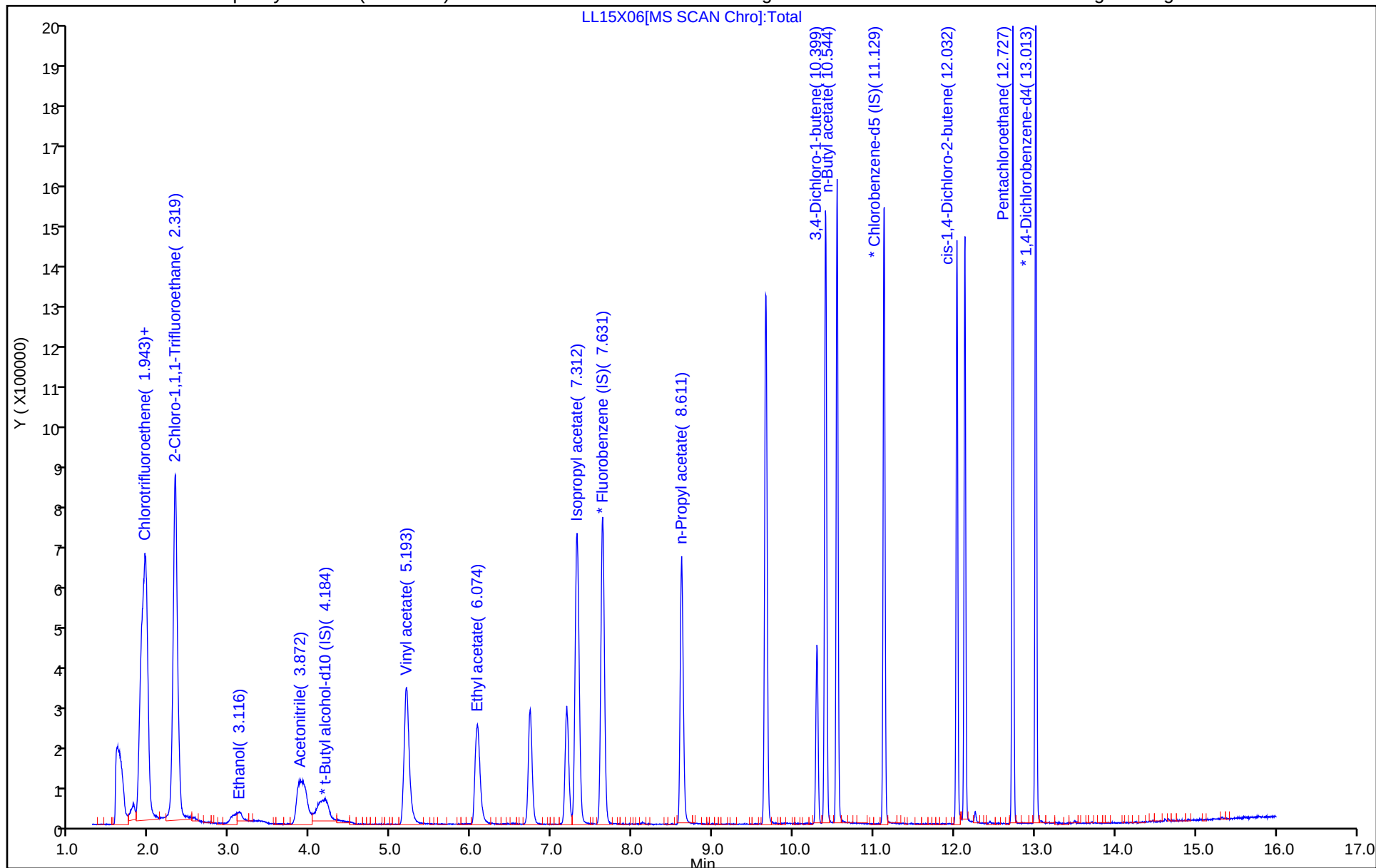
ALS Bottle#: 6

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X07.D
 Lims ID: IC sm v300
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 15-Jul-2024 16:11:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119345-008
 Misc. Info.: IC SM V300
 Operator ID: knk41612 Instrument ID: 9915
 Sublist: chrom-MSVoa_9915a*sub46
 Method: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 16-Jul-2024 20:47:12 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1659

First Level Reviewer: DVW2

Date: 16-Jul-2024 08:00:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	1.904	1.901	0.003	91	1744981	300.0	309.2	
3 Chlorodifluoromethane	51	1.952	1.946	0.006	97	3304483	300.0	292.9	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.312	2.313	-0.001	44	2841612	300.0	304.9	
14 Ethanol	45	3.123	3.097	0.026	98	597380	7500.3	7475.6	
23 Acetonitrile	41	3.846	3.891	-0.045	100	1860511	1500.0	1437.5	
* 28 t-Butyl alcohol-d10 (IS)	65	4.193	4.181	0.012	1	308341	250.0	250.0	
36 Vinyl acetate	43	5.187	5.187	0.000	97	3893040	300.0	316.9	
44 Ethyl acetate	43	6.071	6.068	0.003	99	2033746	300.0	318.1	
60 Isopropyl acetate	43	7.309	7.309	0.000	98	4212078	300.0	315.8	
* 62 Fluorobenzene (IS)	96	7.624	7.628	-0.004	99	1141613	50.0	50.0	
74 n-Propyl acetate	61	8.611	8.608	0.003	99	854597	300.0	326.3	
126 3,4-Dichloro-1-butene	75	10.399	10.399	0.000	92	1942678	300.0	315.4	
127 n-Butyl acetate	43	10.544	10.544	0.000	98	3410486	300.0	307.9	
* 130 Chlorobenzene-d5 (IS)	117	11.126	11.126	0.000	85	892176	50.0	50.0	
144 cis-1,4-Dichloro-2-butene	88	12.032	12.032	0.000	98	973975	300.0	325.3	
155 Pentachloroethane	167	12.727	12.727	0.000	93	1446446	300.0	367.0	
* 160 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	527917	50.0	50.0	

QC Flag Legend

Processing Flags

Reagents:

MSV_CCV_V5ACE_00038	Amount Added: 15.00	Units: uL
MSV_CCV_LKB_00010	Amount Added: 15.00	Units: uL
MSV_V_SMFreon_00044	Amount Added: 7.50	Units: uL
MSV_HP23_ISO_00008	Amount Added: 1.00	Units: uL
MSV_CCV_Penta_00051	Amount Added: 15.00	Units: uL
MSV_CCV_ETOH_00006	Amount Added: 30.00	Units: uL

Report Date: 16-Jul-2024 20:47:13

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X07.D

Injection Date: 15-Jul-2024 16:11:30

Instrument ID: 9915

Operator ID: knk41612

Lims ID: IC sm v300

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

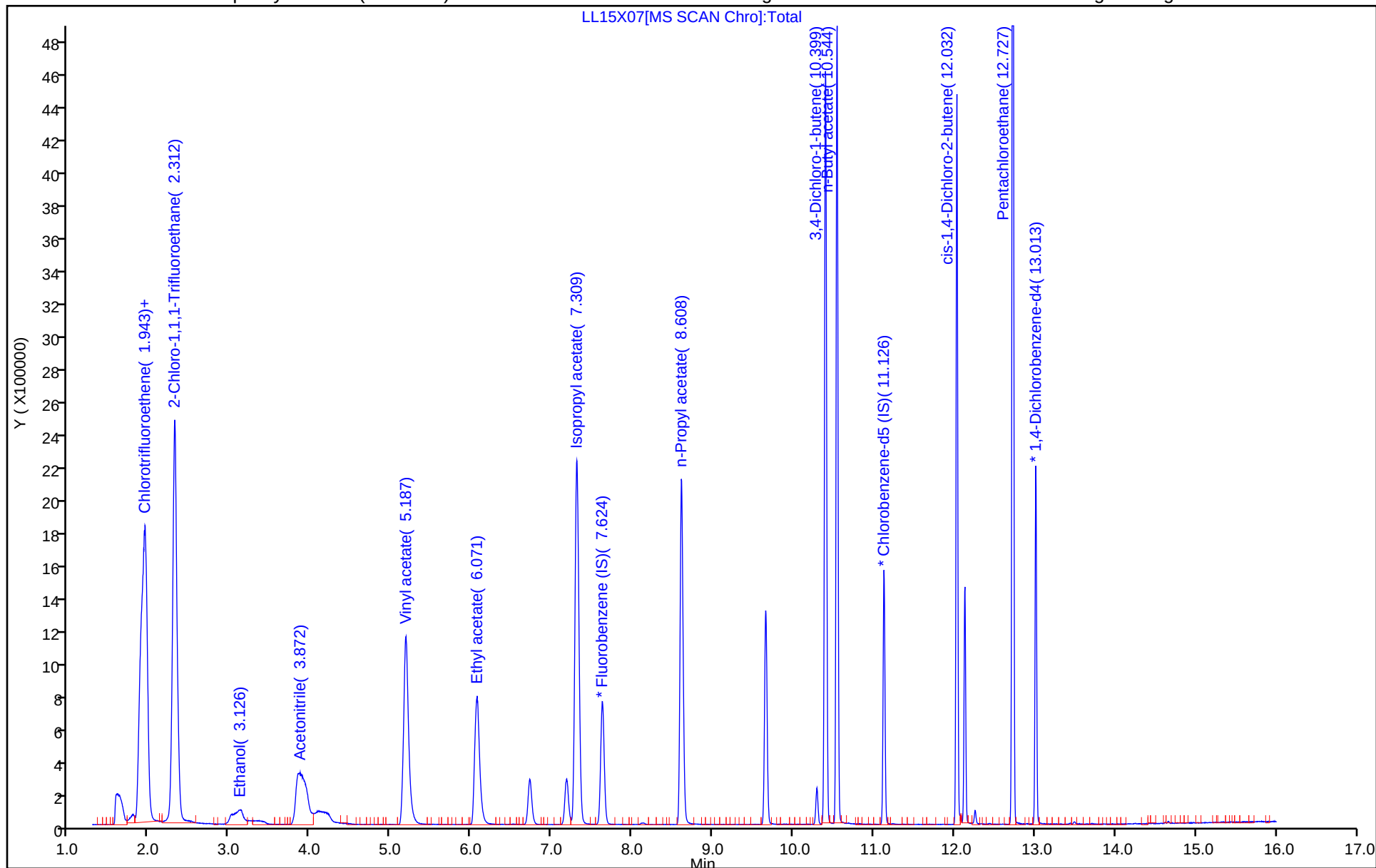
ALS Bottle#: 7

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Calibration

/ Chlorotrifluoroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

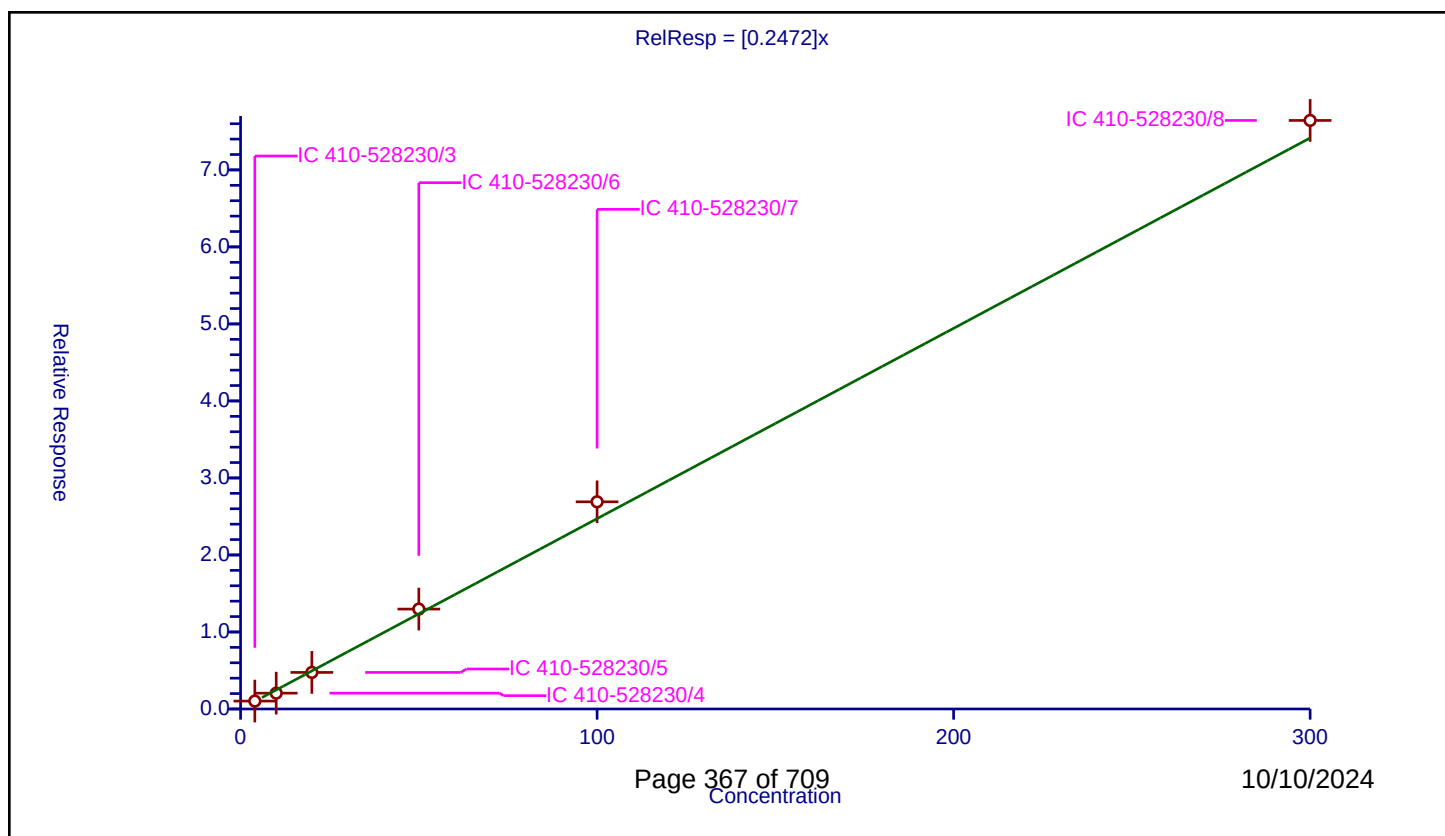
Curve Coefficients

Intercept: 0
 Slope: 0.2472

Error Coefficients

Relative Standard Deviation: 9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/3	4.0	1.026722	50.0	1154938.0	0.25668	Y
2	IC 410-528230/4	10.0	2.055751	50.0	1203064.0	0.205575	Y
3	IC 410-528230/5	20.0	4.748895	50.0	1193983.0	0.237445	Y
4	IC 410-528230/6	50.0	12.972855	50.0	1176815.0	0.259457	Y
5	IC 410-528230/7	100.0	26.905651	50.0	1165166.0	0.269057	Y
6	IC 410-528230/8	300.0	76.426118	50.0	1141613.0	0.254754	Y



Calibration

/ Chlorodifluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

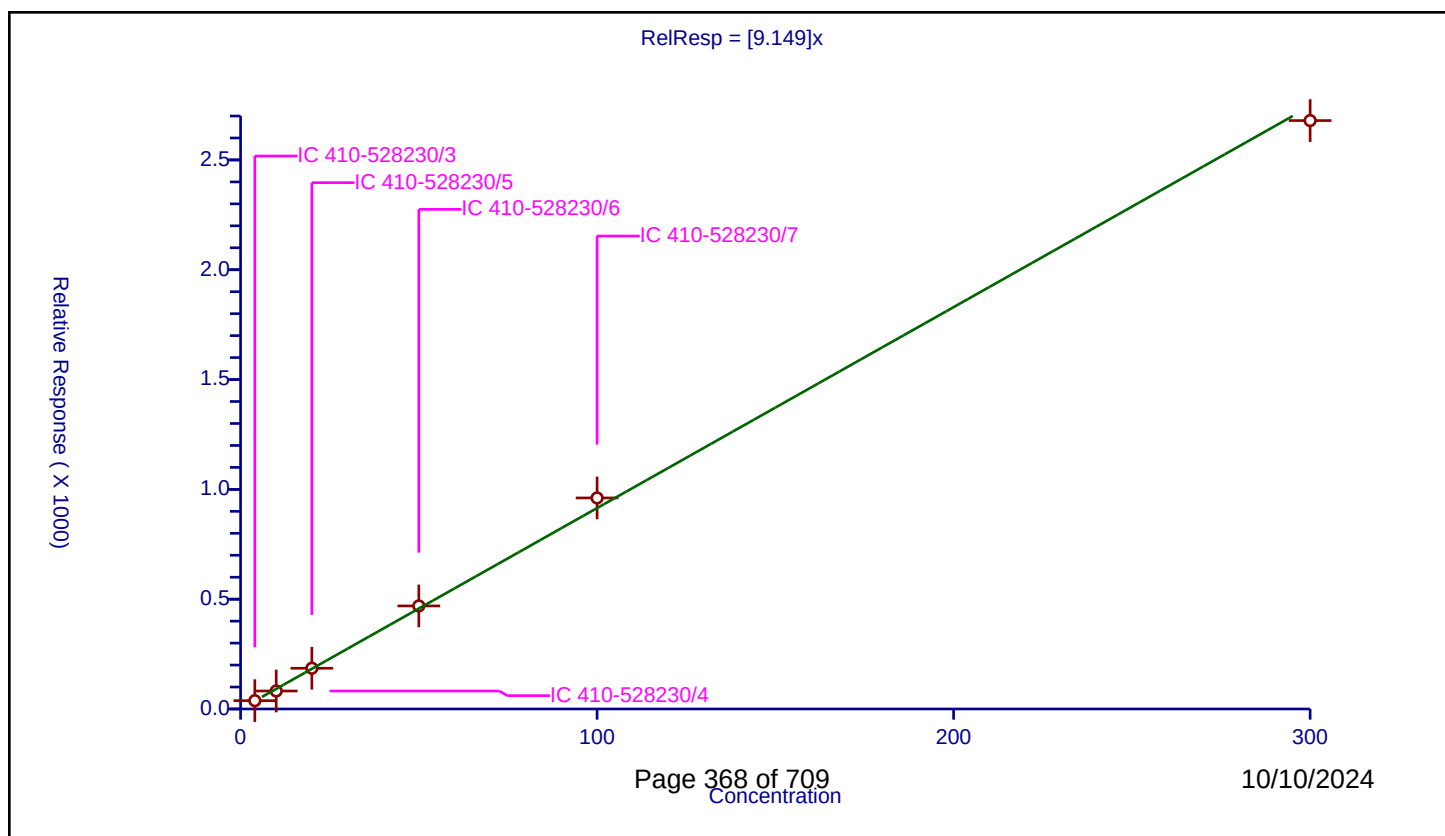
Curve Coefficients

Intercept: 0
Slope: 9.149

Error Coefficients

Relative Standard Deviation: 5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/3	4.0	37.992448	250.0	305870.0	9.498112	Y
2	IC 410-528230/4	10.0	81.923651	250.0	306984.0	8.192365	Y
3	IC 410-528230/5	20.0	185.520563	250.0	298696.0	9.276028	Y
4	IC 410-528230/6	50.0	469.201781	250.0	307948.0	9.384036	Y
5	IC 410-528230/7	100.0	961.0016	250.0	300070.0	9.610016	Y
6	IC 410-528230/8	300.0	2679.243922	250.0	308341.0	8.930813	Y



Calibration

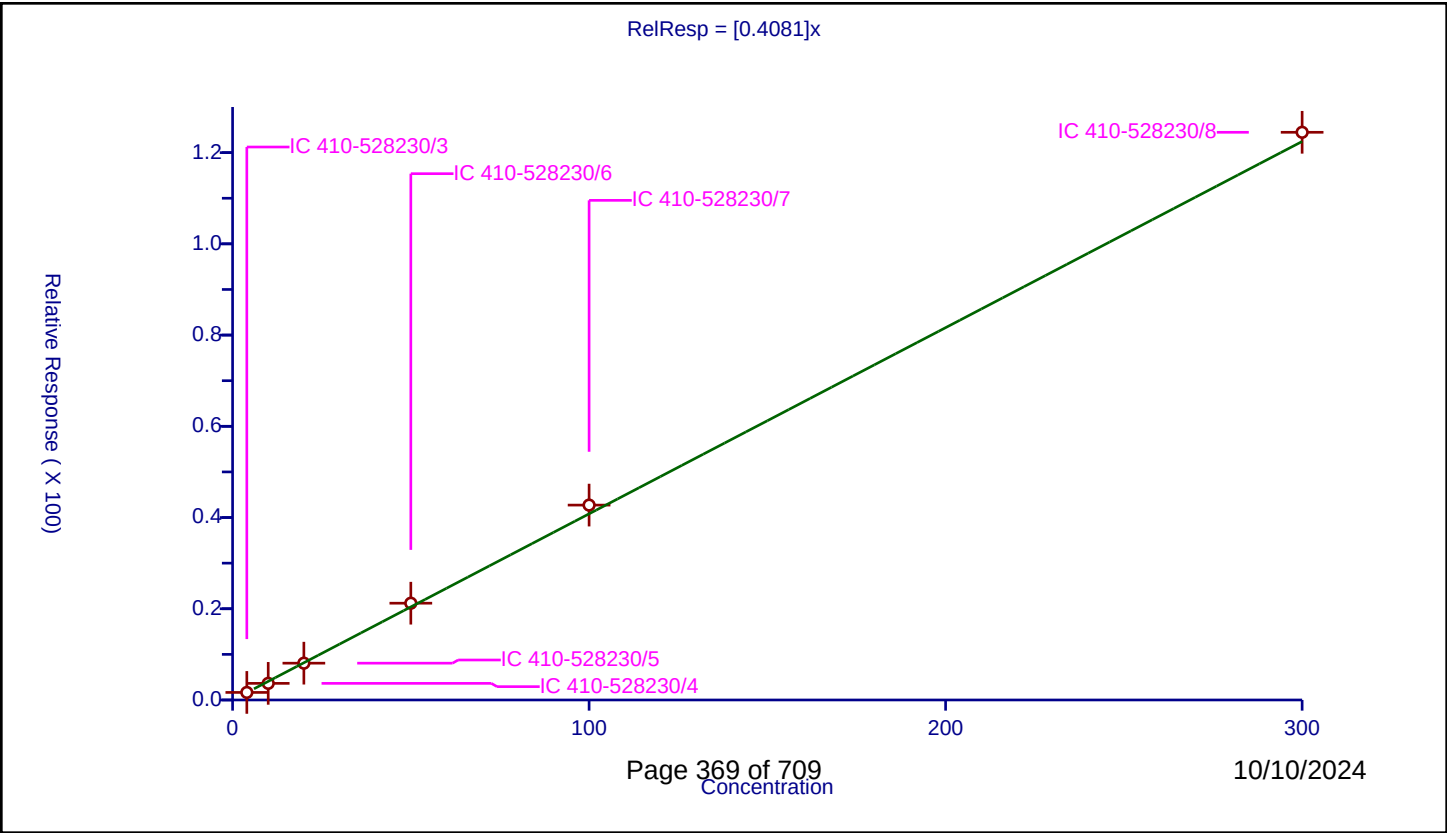
/ 2-Chloro-1,1,1-Trifluoroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4081
Error Coefficients	

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/3	4.0	1.656842	50.0	1154938.0	0.414211	Y
2	IC 410-528230/4	10.0	3.645733	50.0	1203064.0	0.364573	Y
3	IC 410-528230/5	20.0	8.0721	50.0	1193983.0	0.403605	Y
4	IC 410-528230/6	50.0	21.216037	50.0	1176815.0	0.424321	Y
5	IC 410-528230/7	100.0	42.729791	50.0	1165166.0	0.427298	Y
6	IC 410-528230/8	300.0	124.456011	50.0	1141613.0	0.414853	Y



Calibration

/ Ethanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

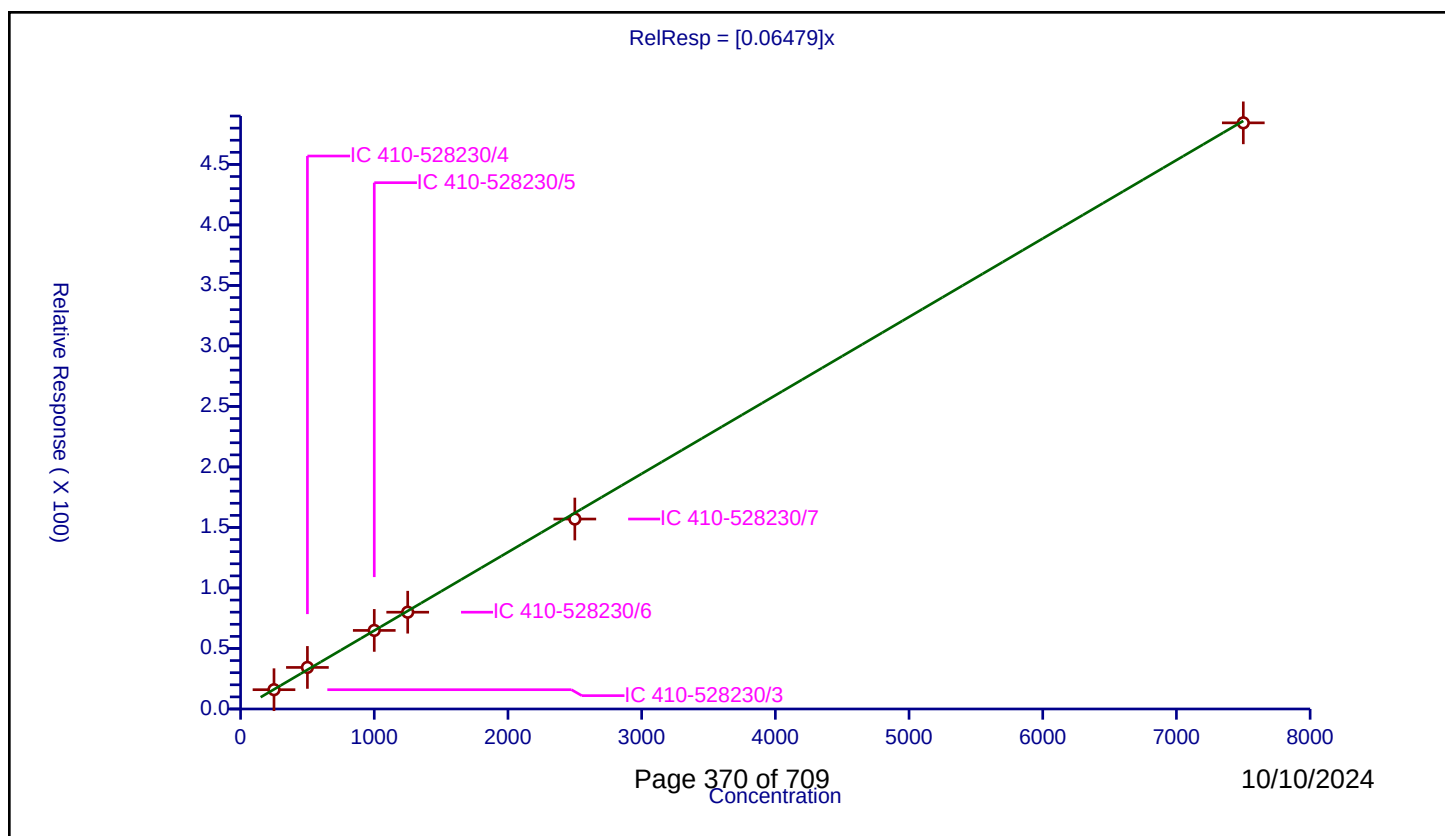
Curve Coefficients

Intercept: 0
 Slope: 0.06479

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/3	250.009848	15.943048	250.0	305870.0	0.06377	Y
2	IC 410-528230/4	500.019696	34.351953	250.0	306984.0	0.068701	Y
3	IC 410-528230/5	1000.039392	64.938098	250.0	298696.0	0.064936	Y
4	IC 410-528230/6	1250.04924	79.973729	250.0	307948.0	0.063976	Y
5	IC 410-528230/7	2500.09848	156.963375	250.0	300070.0	0.062783	Y
6	IC 410-528230/8	7500.29544	484.350119	250.0	308341.0	0.064577	Y



Calibration

/ Acetonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

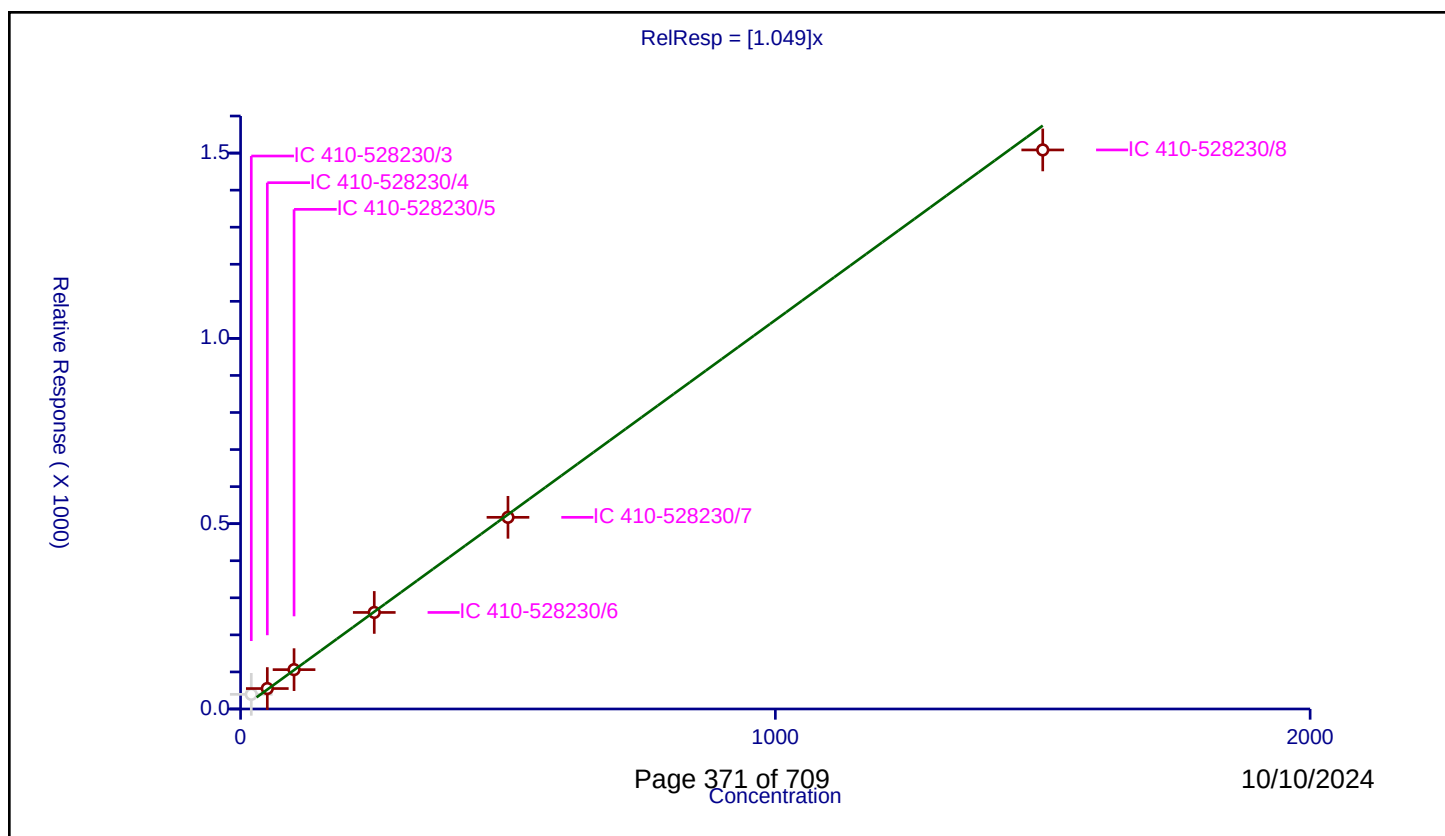
Curve Coefficients

Intercept: 0
 Slope: 1.049

Error Coefficients

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/3	20.0	39.526596	250.0	305870.0	1.97633	N
2	IC 410-528230/4	50.0	55.165742	250.0	306984.0	1.103315	Y
3	IC 410-528230/5	100.0	106.141361	250.0	298696.0	1.061414	Y
4	IC 410-528230/6	250.0	260.538305	250.0	307948.0	1.042153	Y
5	IC 410-528230/7	500.0	517.186823	250.0	300070.0	1.034374	Y
6	IC 410-528230/8	1500.0	1508.484924	250.0	308341.0	1.005657	Y



Calibration

/ Vinyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

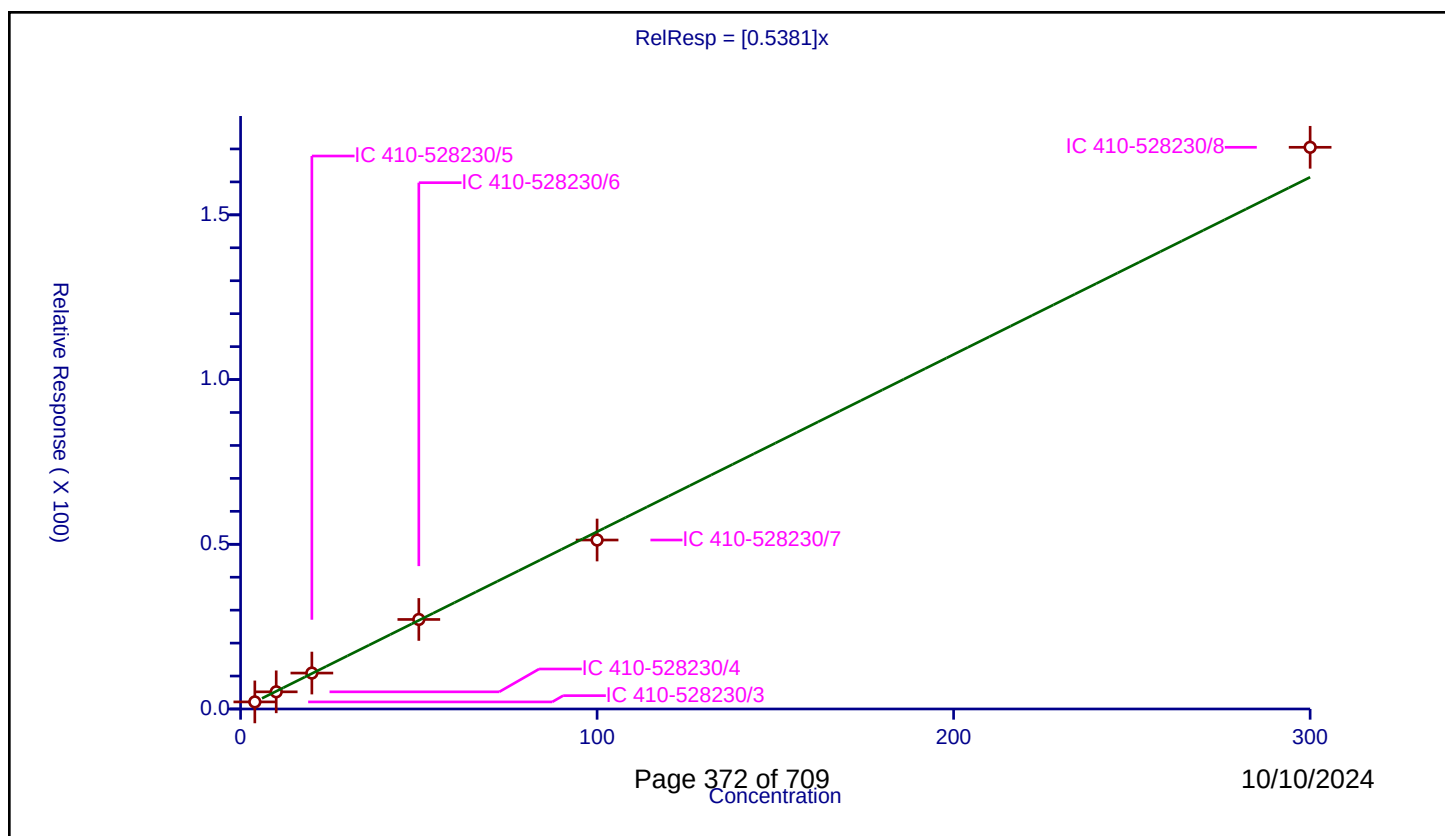
Curve Coefficients

Intercept: 0
 Slope: 0.5381

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/3	4.0	2.148297	50.0	1154938.0	0.537074	Y
2	IC 410-528230/4	10.0	5.210363	50.0	1203064.0	0.521036	Y
3	IC 410-528230/5	20.0	10.90786	50.0	1193983.0	0.545393	Y
4	IC 410-528230/6	50.0	27.181715	50.0	1176815.0	0.543634	Y
5	IC 410-528230/7	100.0	51.290589	50.0	1165166.0	0.512906	Y
6	IC 410-528230/8	300.0	170.506117	50.0	1141613.0	0.568354	Y



Calibration

/ Ethyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

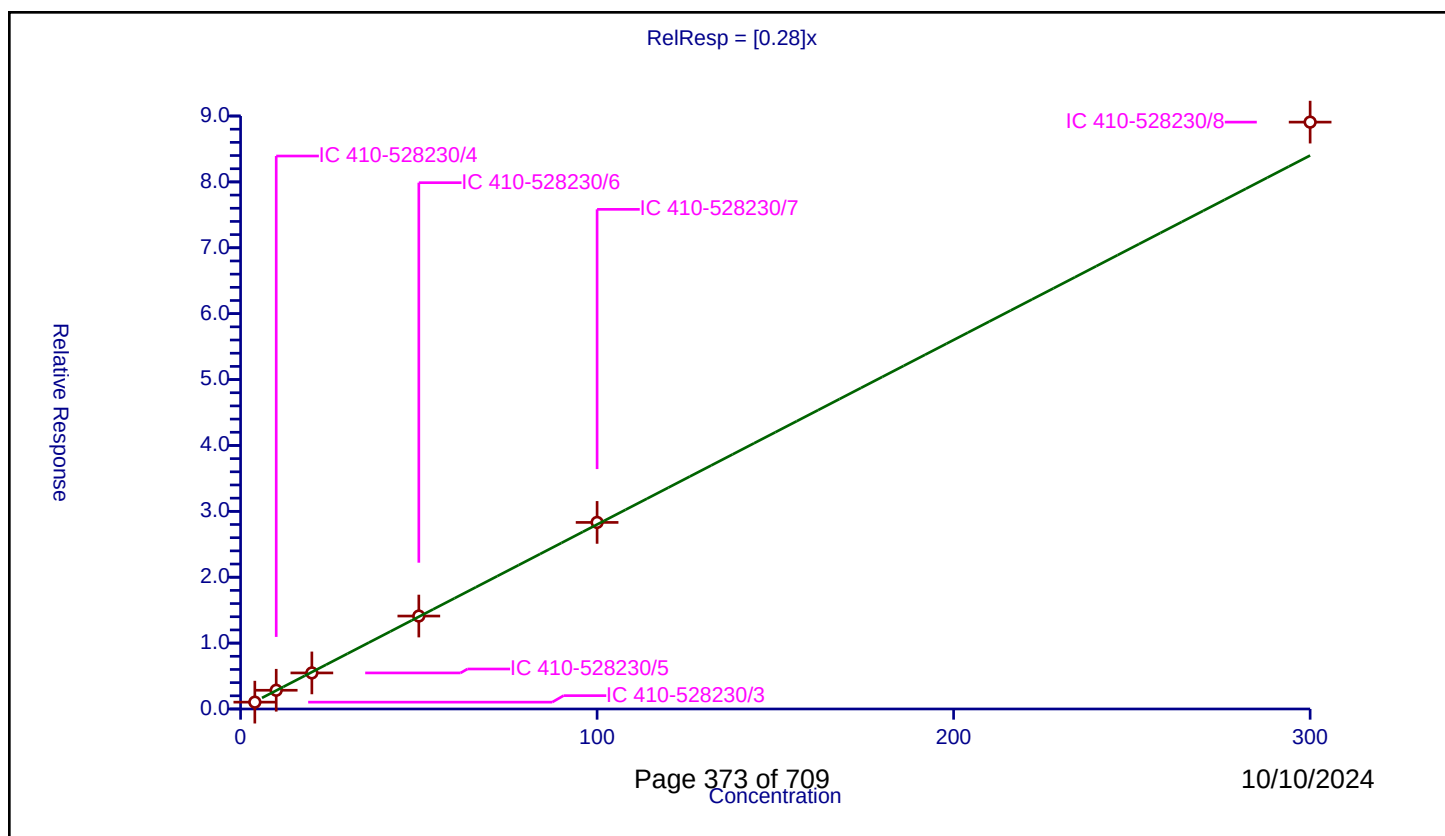
Curve Coefficients

Intercept: 0
 Slope: 0.28

Error Coefficients

Relative Standard Deviation: 4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/3	4.0	1.039753	50.0	1154938.0	0.259938	Y
2	IC 410-528230/4	10.0	2.843116	50.0	1203064.0	0.284312	Y
3	IC 410-528230/5	20.0	5.473947	50.0	1193983.0	0.273697	Y
4	IC 410-528230/6	50.0	14.106465	50.0	1176815.0	0.282129	Y
5	IC 410-528230/7	100.0	28.31957	50.0	1165166.0	0.283196	Y
6	IC 410-528230/8	300.0	89.073355	50.0	1141613.0	0.296911	Y



Calibration

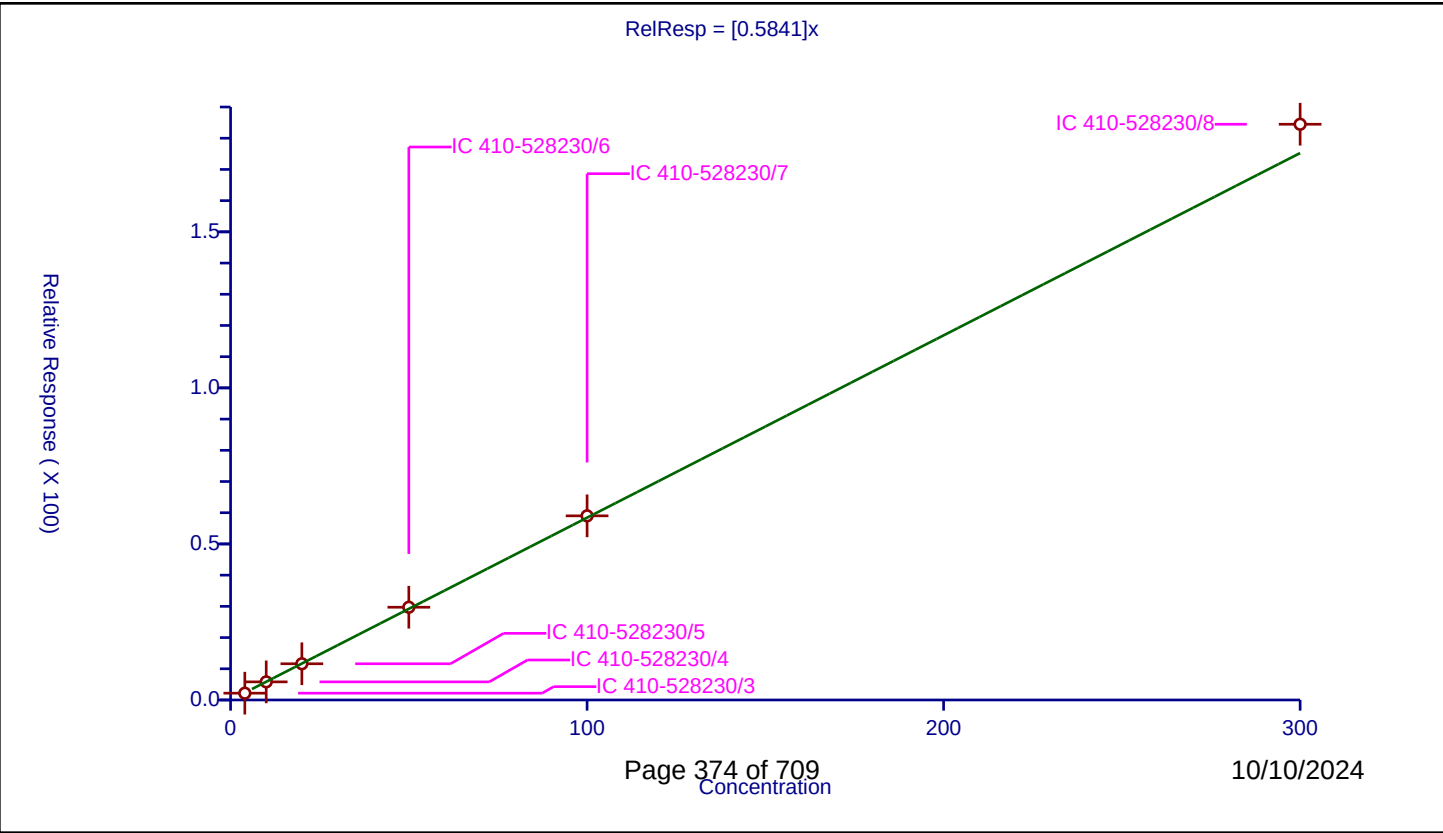
/ Isopropyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5841
Error Coefficients	

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/3	4.0	2.178991	50.0	1154938.0	0.544748	Y
2	IC 410-528230/4	10.0	5.802601	50.0	1203064.0	0.58026	Y
3	IC 410-528230/5	20.0	11.609001	50.0	1193983.0	0.58045	Y
4	IC 410-528230/6	50.0	29.723958	50.0	1176815.0	0.594479	Y
5	IC 410-528230/7	100.0	59.002623	50.0	1165166.0	0.590026	Y
6	IC 410-528230/8	300.0	184.479241	50.0	1141613.0	0.614931	Y



Calibration

/ n-Propyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

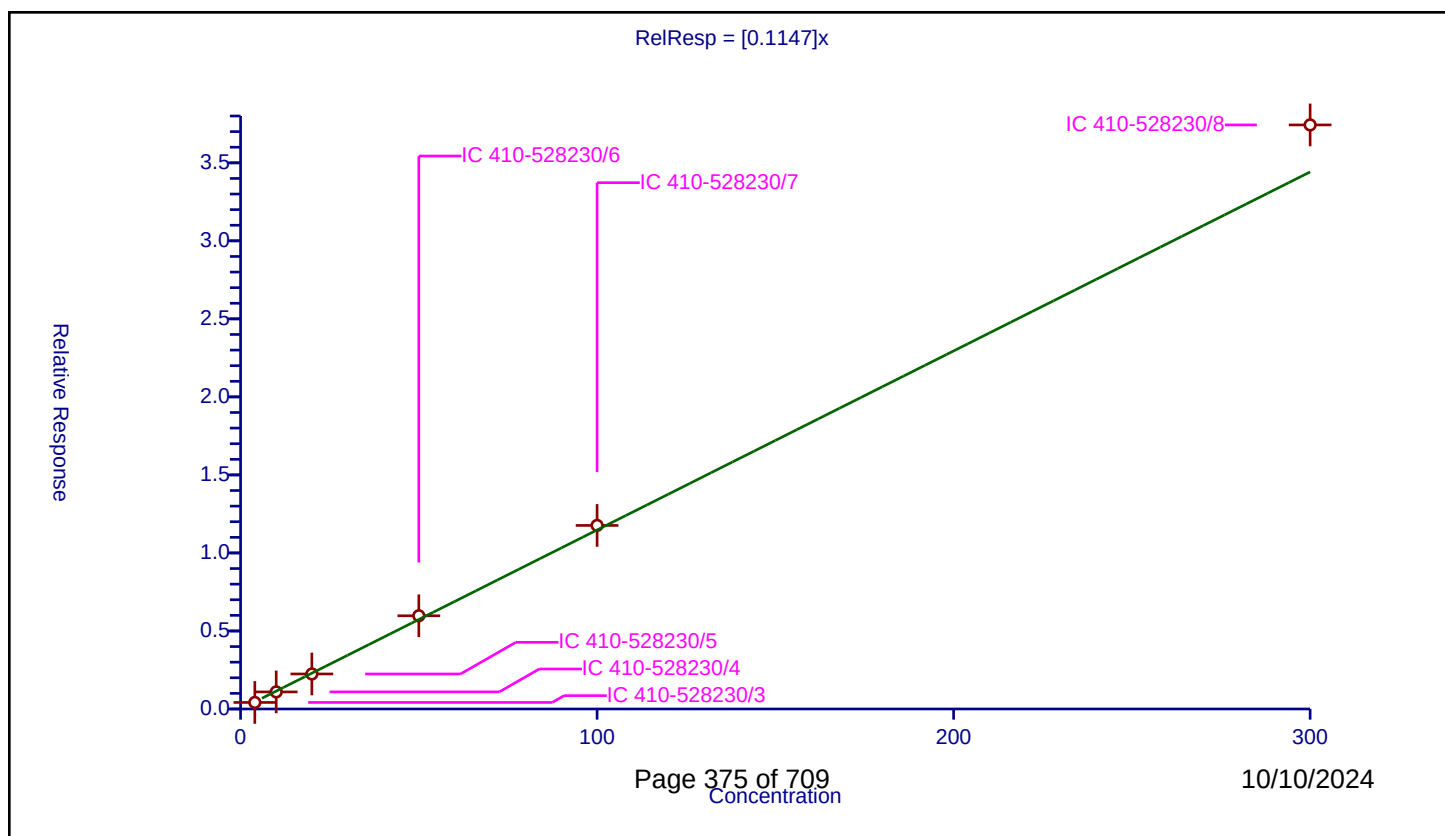
Curve Coefficients

Intercept: 0
 Slope: 0.1147

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/3	4.0	0.419546	50.0	1154938.0	0.104887	Y
2	IC 410-528230/4	10.0	1.093749	50.0	1203064.0	0.109375	Y
3	IC 410-528230/5	20.0	2.244086	50.0	1193983.0	0.112204	Y
4	IC 410-528230/6	50.0	5.972986	50.0	1176815.0	0.11946	Y
5	IC 410-528230/7	100.0	11.76356	50.0	1165166.0	0.117636	Y
6	IC 410-528230/8	300.0	37.429365	50.0	1141613.0	0.124765	Y



Calibration

/ 3,4-Dichloro-1-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

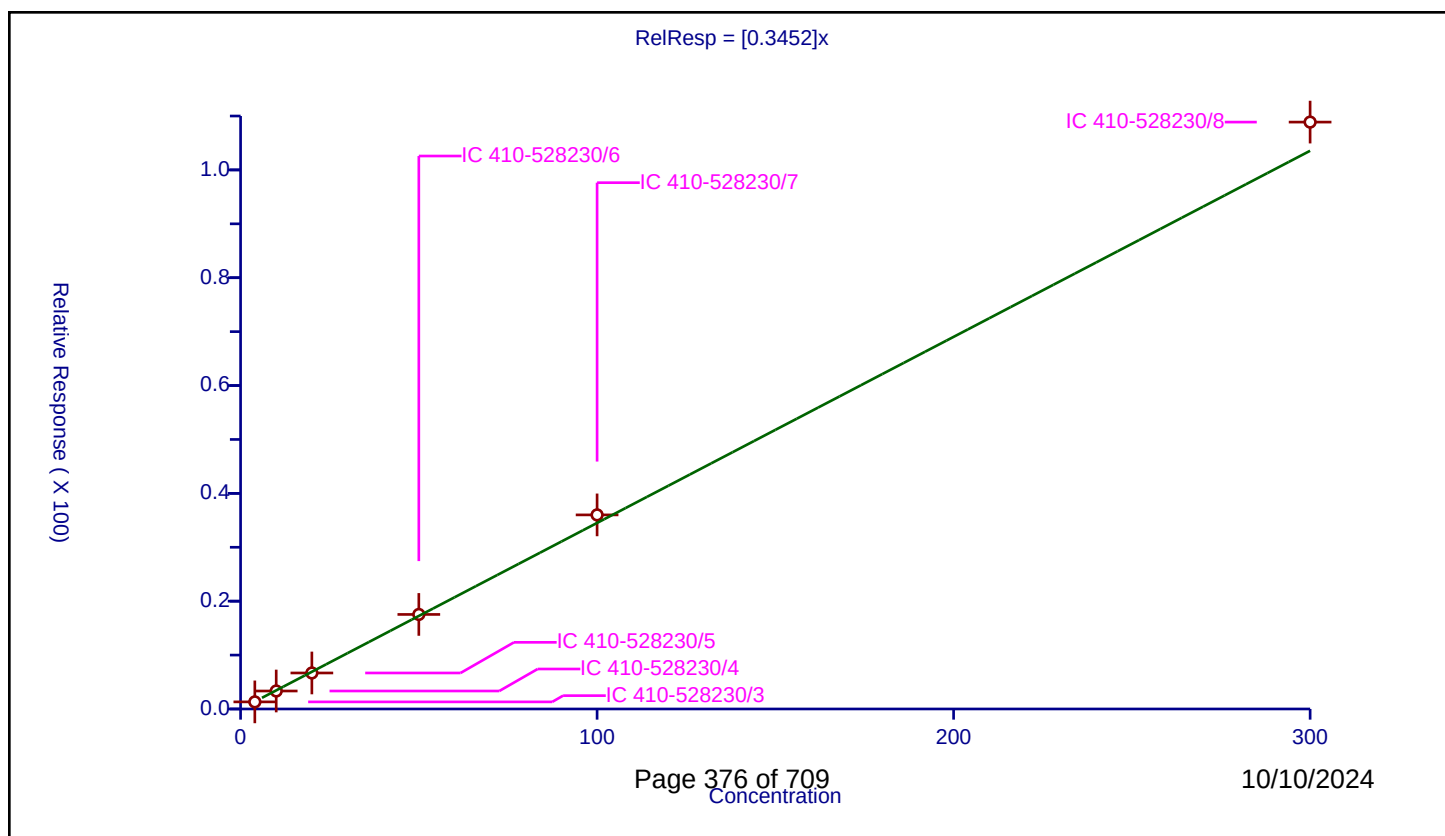
Curve Coefficients

Intercept: 0
Slope: 0.3452

Error Coefficients

Relative Standard Deviation: 4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/3	3.99997	1.317563	50.0	865196.0	0.329393	Y
2	IC 410-528230/4	9.999924	3.337043	50.0	901217.0	0.333707	Y
3	IC 410-528230/5	19.999848	6.681731	50.0	920510.0	0.334089	Y
4	IC 410-528230/6	49.99962	17.539078	50.0	935377.0	0.350784	Y
5	IC 410-528230/7	99.99924	36.00686	50.0	884319.0	0.360071	Y
6	IC 410-528230/8	299.99772	108.873025	50.0	892176.0	0.362913	Y



Calibration

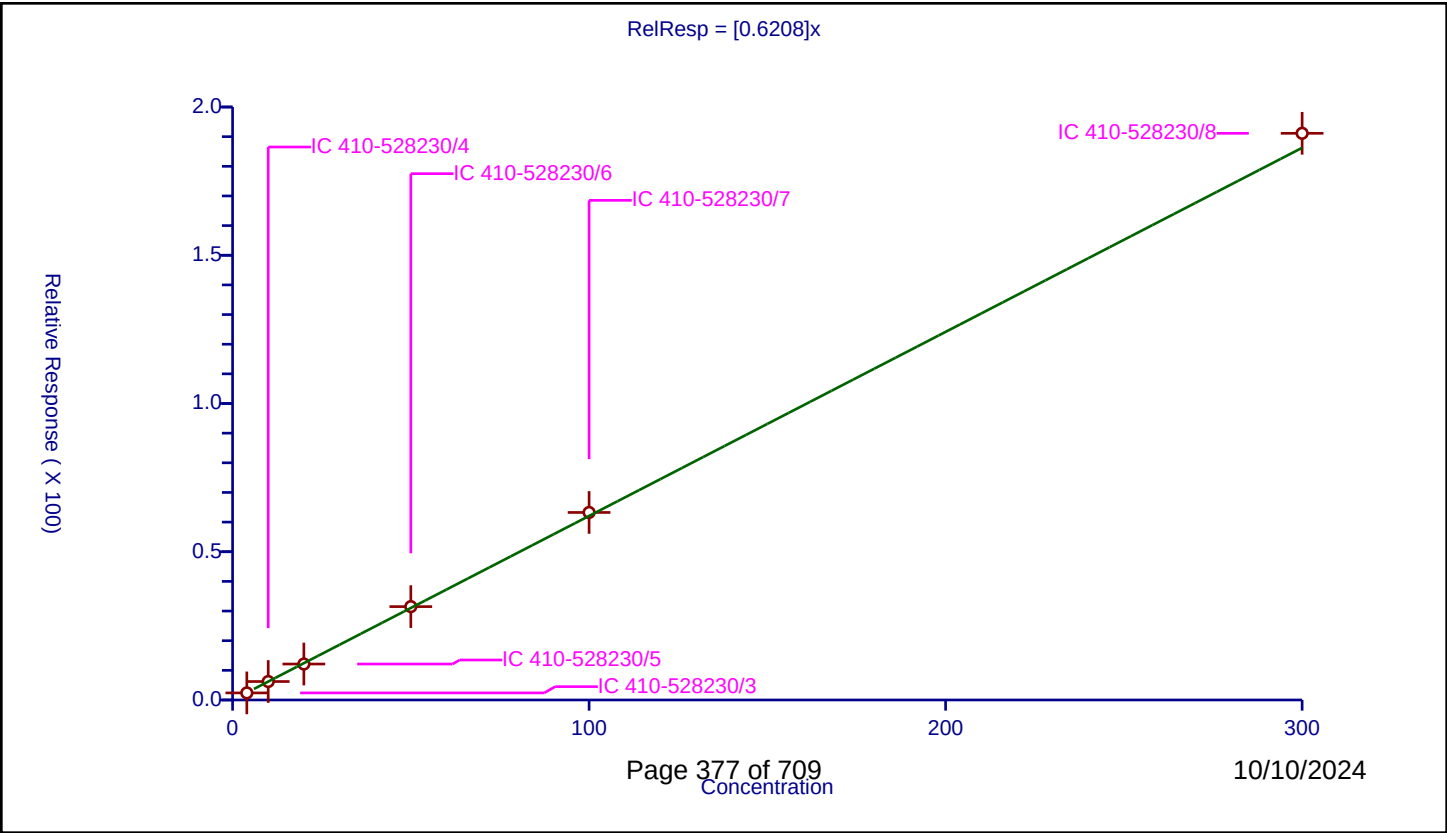
/ n-Butyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6208
Error Coefficients	

Relative Standard Deviation: 2.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/3	4.0	2.384026	50.0	865196.0	0.596007	Y
2	IC 410-528230/4	10.0	6.229576	50.0	901217.0	0.622958	Y
3	IC 410-528230/5	20.0	12.12643	50.0	920510.0	0.606321	Y
4	IC 410-528230/6	50.0	31.491794	50.0	935377.0	0.629836	Y
5	IC 410-528230/7	100.0	63.248217	50.0	884319.0	0.632482	Y
6	IC 410-528230/8	300.0	191.133028	50.0	892176.0	0.63711	Y



Calibration

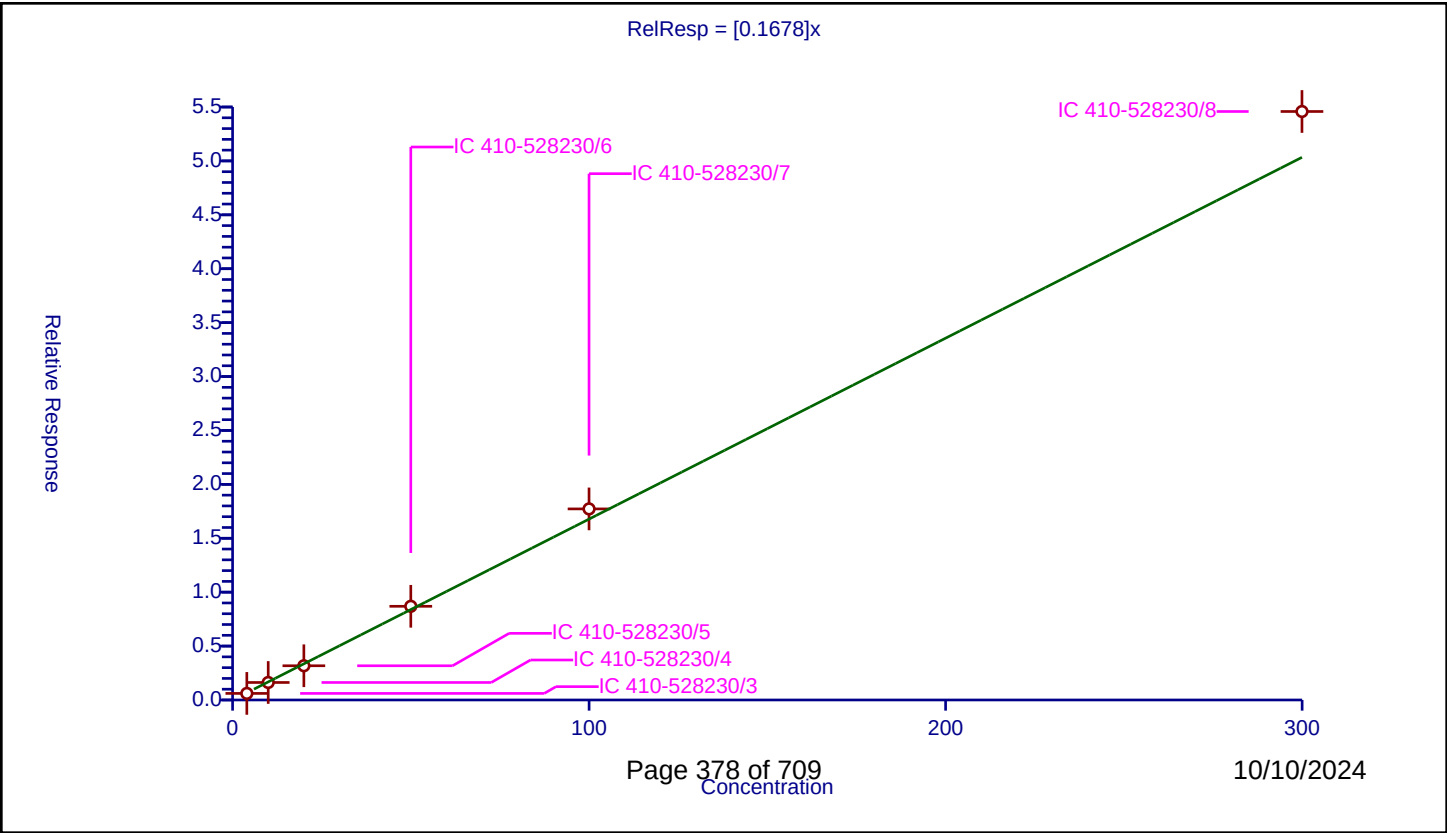
/ cis-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1678
Error Coefficients	

Relative Standard Deviation: 6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/3	3.999457	0.610266	50.0	865196.0	0.152587	Y
2	IC 410-528230/4	9.998644	1.623527	50.0	901217.0	0.162375	Y
3	IC 410-528230/5	19.997287	3.175088	50.0	920510.0	0.158776	Y
4	IC 410-528230/6	49.993218	8.690507	50.0	935377.0	0.173834	Y
5	IC 410-528230/7	99.986436	17.723299	50.0	884319.0	0.177257	Y
6	IC 410-528230/8	299.959308	54.584241	50.0	892176.0	0.181972	Y



Calibration

/ Pentachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

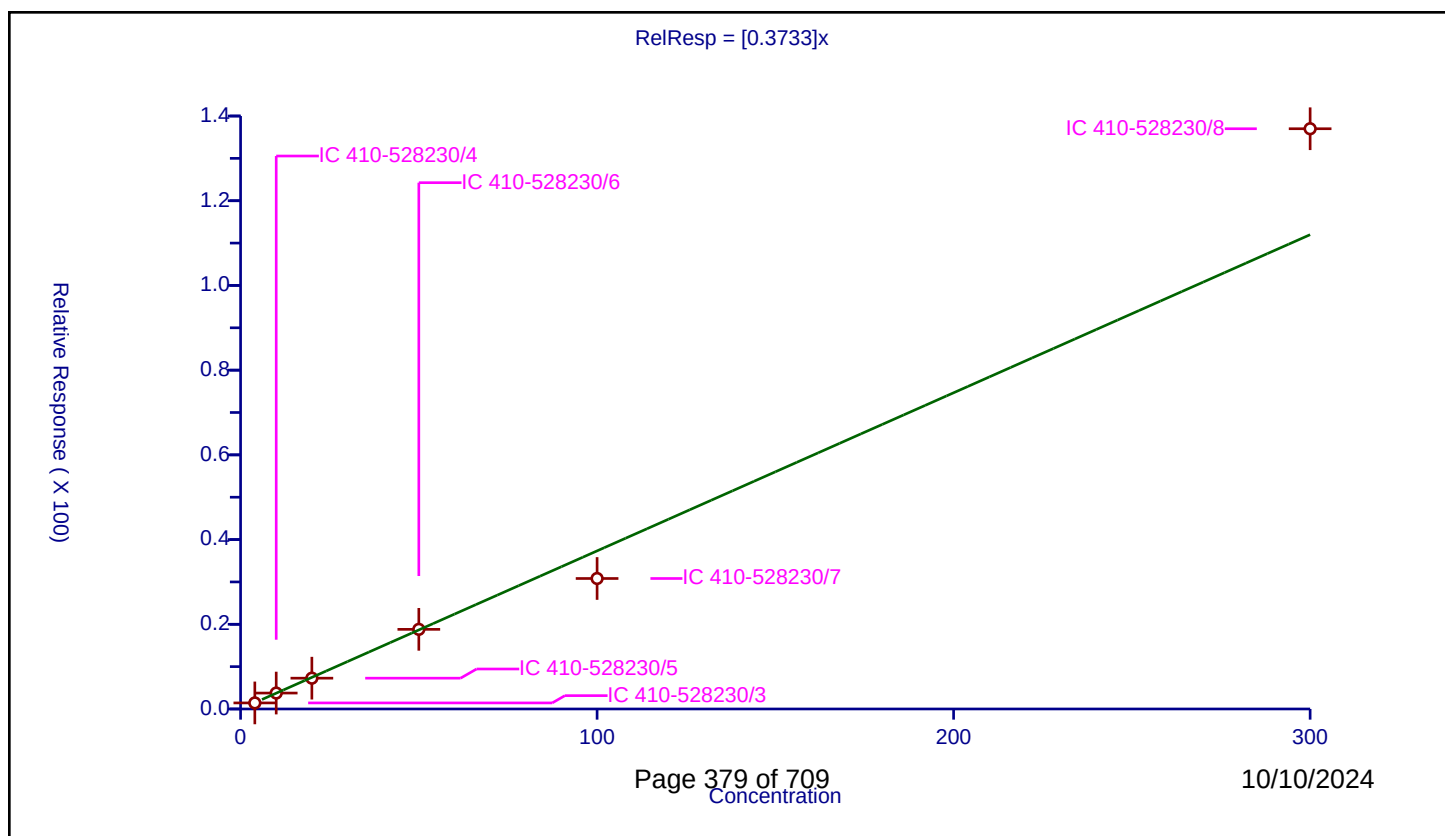
Curve Coefficients

Intercept: 0
Slope: 0.3733

Error Coefficients

Relative Standard Deviation: 12.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/3	4.0	1.435249	50.0	520920.0	0.358812	Y
2	IC 410-528230/4	10.0	3.761919	50.0	542622.0	0.376192	Y
3	IC 410-528230/5	20.0	7.277893	50.0	549960.0	0.363895	Y
4	IC 410-528230/6	50.0	18.800115	50.0	565579.0	0.376002	Y
5	IC 410-528230/7	100.0	30.812223	50.0	532120.0	0.308122	Y
6	IC 410-528230/8	300.0	136.995588	50.0	527917.0	0.456652	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9915 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-528230/12	LL15X11.D
Level 2	IC 410-528230/13	LL15X12.D
Level 3	IC 410-528230/14	LL15X13.D
Level 4	IC 410-528230/15	LL15X14.D
Level 5	ICIS 410-528230/16	LL15X15.D
Level 6	IC 410-528230/17	LL15X16.D
Level 7	IC 410-528230/18	LL15X17.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.4091 0.4494	0.4612 0.4456	0.3872	0.4538	0.4516	Ave		0.436 9			0.1000	6.3		20.0			
Chloromethane	0.5150 0.4891	0.5168 0.4762	0.4229	0.4936	0.4922	Ave		0.486 5			0.1000	6.5		20.0			
1,3-Butadiene	0.4719 0.4619	0.5346 0.4547	0.3993	0.4704	0.4715	Ave		0.466 3				8.5		20.0			
Vinyl chloride	0.4580 0.4828	0.5034 0.4708	0.4341	0.4947	0.4889	Ave		0.476 1			0.1000	5.0		20.0			
Bromomethane	0.3527 0.3769	0.4061 0.3619	0.3367	0.3762	0.3763	Ave		0.369 5			0.1000	5.9		20.0			
Chloroethane	0.2404 0.2500	0.2783 0.2448	0.2233	0.2538	0.2547	Ave		0.249 3			0.1000	6.7		20.0			
Dichlorofluoromethane	0.7569 0.7789	0.8185 0.7498	0.6938	0.7868	0.7854	Ave		0.767 1			0.1000	5.1		20.0			
Trichlorofluoromethane	0.4974 0.6008	0.6035 0.6024	0.5088	0.5986	0.5985	Ave		0.572 9			0.1000	8.3		20.0			
n-Pentane	0.3706 0.4066	0.3906 0.4420	0.4000	0.3982	0.3696	Ave		0.396 8				6.2		20.0			
Ethyl ether	0.1786 0.1886	0.1806 0.1901	0.1912	0.1904	0.1914	Ave		0.187 3				2.9		20.0			
Freon 123a	0.3757 0.3520	0.3782 0.3487	0.3173	0.3529	0.3589	Ave		0.354 8				5.7		20.0			
Acrolein	1.4244 1.4537	1.3478 1.4258	1.3945	1.4788	1.5169	Ave		1.434 6				3.9		20.0			
Acetone	0.6011 0.6254	0.6508 0.7526	0.7640	0.7004	0.6539	Ave		0.678 3			0.1000	9.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9915 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloroethene	0.2434 0.2678	0.2575 0.2820	0.2755	0.2618	0.2491	Ave		0.262 5			0.1000	5.3		20.0			
Freon 113	0.2446 0.3151	0.2963 0.3292	0.3206	0.3142	0.2931	Ave		0.301 9			0.1000	9.4		20.0			
2-Propanol	0.5968 0.4497	0.4900 0.4298	0.5206	0.4692	0.4331	Ave		0.484 2				12.2		20.0			
Methyl iodide	0.4737 0.5715	0.5532 0.5834	0.5714	0.5787	0.5314	Ave		0.551 9				7.0		20.0			
Carbon disulfide	0.8186 1.0204	0.9532 1.0414	0.9894	0.9885	0.9200	Ave		0.961 6			0.1000	7.8		20.0			
Methyl acetate	++++ 0.2195	0.1893 0.2166	0.2284	0.2122	0.1949	Ave		0.210 1			0.1000	7.2		20.0			
Allyl chloride	0.3512 0.3690	0.3849 0.3905	0.3732	0.3596	0.3349	Ave		0.366 2				5.3		20.0			
Methylene Chloride	0.3274 0.3190	0.3229 0.3247	0.3248	0.3146	0.2923	Ave		0.318 0			0.1000	3.8		20.0			
t-Butyl alcohol	0.9717 0.8915	0.8958 0.7900	0.9964	0.9617	0.8020	Ave		0.901 3				9.1		20.0			
Acrylonitrile	0.1182 0.1254	0.1196 0.1252	0.1241	0.1230	0.1094	Ave		0.120 7				4.7		20.0			
trans-1,2-Dichloroethene	0.2349 0.2475	0.2574 0.2494	0.2527	0.2473	0.2315	Ave		0.245 8			0.1000	3.8		20.0			
Methyl tert-butyl ether	0.9331 0.9824	0.9191 0.9854	1.0175	0.9783	0.8919	Ave		0.958 2			0.1000	4.6		20.0			
n-Hexane	0.2810 0.3101	0.3182 0.3154	0.3127	0.2994	0.2772	Ave		0.302 0				5.6		20.0			
1,1-Dichloroethane	0.3358 0.4065	0.4082 0.4100	0.4336	0.4126	0.3782	Ave		0.397 8			0.2000	8.0		20.0			
Isopropyl ether	0.7822 0.8486	0.8083 0.8682	0.8533	0.8251	0.7639	Ave		0.821 4				4.7		20.0			
2-Chloro-1,3-butadiene	0.2986 0.3514	0.3647 0.3494	0.3672	0.3560	0.3267	Ave		0.344 9				7.0		20.0			
Ethyl t-butyl ether	0.8026 0.9121	0.8543 0.9172	0.9094	0.8918	0.8262	Ave		0.873 4				5.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9915 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Butanone (MEK)	0.1389 0.1663	0.1431 0.1713	0.1506	0.1611	0.1634	Ave		0.156 4			0.1000	7.9		20.0			
cis-1,2-Dichloroethene	0.2505 0.2722	0.2799 0.2717	0.2833	0.2742	0.2534	Ave		0.269 3			0.1000	4.7		20.0			
2,2-Dichloropropane	0.4076 0.4653	0.4531 0.4813	0.4849	0.4566	0.4271	Ave		0.453 7				6.2		20.0			
Propionitrile	0.8745 1.0491	0.9772 1.0521	1.1253	1.0407	0.9289	Ave		1.006 8				8.5		20.0			
Methyl acrylate		0.2562 0.3281	0.3111	0.3030	0.3108	Ave		0.306 3				8.7		20.0			
Methacrylonitrile	0.1180 0.1343	0.1215 0.1339	0.1351	0.1292	0.1181	Ave		0.127 2				6.1		20.0			
Bromochloromethane	0.1469 0.1400	0.1383 0.1403	0.1534	0.1417	0.1295	Ave		0.141 4				5.2		20.0			
Tetrahydrofuran	0.9688 0.8816	0.9152 0.8855	0.9587	0.8857	0.8006	Ave		0.899 4				6.3		20.0			
Chloroform	0.5287 0.4269	0.4491 0.4222	0.4599	0.4382	0.3966	Ave		0.445 9			0.2000	9.4		20.0			
1,1,1-Trichloroethane	0.4071 0.4759	0.4465 0.4950	0.4707	0.4696	0.4320	Ave		0.456 7			0.1000	6.6		20.0			
Cyclohexane	0.4579 0.5247	0.4954 0.5609	0.5191	0.5112	0.4803	Ave		0.507 1			0.1000	6.6		20.0			
1,1-Dichloropropene	0.3076 0.3247	0.3295 0.3236	0.3376	0.3230	0.2970	Ave		0.320 4				4.3		20.0			
Carbon tetrachloride	0.3206 0.3854	0.3536 0.4117	0.3709	0.3643	0.3459	Ave		0.364 6			0.1000	8.0		20.0			
Isobutyl alcohol	+++++ 0.2998	0.3929 0.3079	0.3353	0.3077	0.2693	Ave		0.318 8				13.2		20.0			
Benzene	0.9545 1.0086	0.9906 1.0137	1.0587	1.0072	0.9102	Ave		0.992 0			0.5000	4.8		20.0			
1,2-Dichloroethane	0.3263 0.3415	0.3368 0.3429	0.3571	0.3401	0.3037	Ave		0.335 5			0.1000	5.0		20.0			
t-Amyl methyl ether	0.7966 0.9094	0.7643 0.9265	0.8967	0.8685	0.8121	Ave		0.853 4				7.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9915 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Heptane	0.3199 0.3362	0.3104 0.3372	0.3340	0.3198	0.2954	Ave		0.321 8				4.8		20.0			
n-Butanol	0.1892 0.2325	0.1945 0.2426	0.2359	0.2217	0.1949	Ave		0.215 9				10.4		20.0			
Trichloroethene	0.2402 0.2652	0.2646 0.2731	0.2674	0.2553	0.2349	Ave		0.257 3			0.2000	5.6		20.0			
Ethyl acrylate		0.2895 0.3864	0.3449	0.3354	0.3550	Ave		0.349 4				10.3		20.0			
Methylcyclohexane	0.4252 0.5471	0.4686 0.5909	0.5078	0.5081	0.4896	Ave		0.505 3			0.1000	10.6		20.0			
1,2-Dichloropropane	0.2189 0.2560	0.2453 0.2642	0.2613	0.2486	0.2272	Ave		0.245 9			0.1000	7.0		20.0			
t-Amyl ethyl ether	0.3657 0.4362	0.3755 0.4641	0.4130	0.4032	0.3758	Ave		0.404 8				8.9		20.0			
Methyl methacrylate	0.2043 0.2194	0.1980 0.2345	0.2119	0.2047	0.1867	Ave		0.208 5				7.4		20.0			
1,4-Dioxane	0.0616 0.0723	0.0586 0.0728	0.0766	0.0726	0.0645	Ave		0.068 4			0.0050	9.9		20.0			
Dibromomethane	0.1753 0.1845	0.1807 0.1907	0.1878	0.1767	0.1638	Ave		0.179 9				5.0		20.0			
Bromodichloromethane	0.2808 0.3345	0.2966 0.3526	0.3189	0.3092	0.2890	Ave		0.311 7			0.2000	8.2		20.0			
2-Nitropropane	1.7071 1.8388	1.6201 1.9059	1.8227	1.7467	1.5759	Ave		1.745 3				6.9		20.0			
2-Chloroethyl vinyl ether	0.0770 0.0984	0.0830 0.1065	0.1015	0.0889	0.0888	Ave		0.092 n				11.4		20.0			
cis-1,3-Dichloropropene	0.3329 0.4156	0.3754 0.4450	0.3901	0.3830	0.3532	Ave		0.385 n			0.2000	9.7		20.0			
4-Methyl-2-pentanone (MIBK)	0.3814 0.3737	0.3435 0.3802	0.3629	0.3671	0.3686	Ave		0.368 2			0.1000	3.5		20.0			
Toluene	0.7205 0.8077	0.7875 0.8006	0.8249	0.8213	0.7514	Ave		0.787 7			0.4000	4.9		20.0			
trans-1,3-Dichloropropene	0.3778 0.4685	0.4127 0.4777	0.4487	0.4494	0.4163	Ave		0.435 9			0.1000	8.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9915 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethyl methacrylate	0.4448 0.5124	0.4842 0.5038	0.5232	0.5195	0.4650	Ave		0.493 3				6.0		20.0			
1,1,2-Trichloroethane	0.2935 0.3009	0.2835 0.2975	0.2980	0.2954	0.2741	Ave		0.291 8			0.1000	3.3		20.0			
Tetrachloroethene	0.3064 0.3370	0.3429 0.3384	0.3464	0.3438	0.3145	Ave		0.332 8			0.2000	4.7		20.0			
1,3-Dichloropropane	0.4474 0.4754	0.4505 0.4794	0.4876	0.4813	0.4323	Ave		0.464 9				4.5		20.0			
2-Hexanone	0.3134 0.2915	0.2830 0.2898	0.3036	0.3012	0.3021	Ave		0.297 8			0.1000	3.4		20.0			
Dibromochloromethane	0.2558 0.3404	0.2869 0.3518	0.3121	0.3171	0.2991	Ave		0.309 0				10.5		20.0			
1,2-Dibromoethane (EDB)	0.2819 0.3244	0.3109 0.3263	0.3237	0.3286	0.2985	Ave		0.313 5			0.1000	5.6		20.0			
1-Chlorohexane	0.4964 0.4160	0.4484 0.4200	0.4575	0.4319	0.3833	Ave		0.436 2				8.2		20.0			
Chlorobenzene	0.8379 0.8771	0.8861 0.9067	0.9220	0.8905	0.8001	Ave		0.874 3			0.5000	4.8		20.0			
1,1,1,2-Tetrachloroethane	0.3209 0.3775	0.3300 0.3806	0.3612	0.3750	0.3503	Ave		0.356 5				6.7		20.0			
Ethylbenzene	1.5287 1.6088	1.6338 1.6228	1.7370	1.6605	1.4766	Ave		1.609 7			0.1000	5.3		20.0			
m&p-Xylene	0.5876 0.6296	0.6398 0.6365	0.6794	0.6473	0.5766	Ave		0.628 1			0.1000	5.6		20.0			
n-Butyl acrylate		0.6664 0.7015	0.7960	0.7272	0.7489	Ave		0.729 5				6.0		20.0			
o-Xylene	0.6400 0.6820	0.6723 0.6835	0.7212	0.7076	0.6351	Ave		0.677 4			0.3000	4.7		20.0			
Styrene	0.9248 1.0257	1.0226 1.0559	1.1206	1.0665	0.9461	Ave		1.023 2			0.3000	6.7		20.0			
Bromoform	0.2036 0.2446	0.2114 0.2599	0.2285	0.2278	0.2136	Ave		0.227 1			0.1000	8.7		20.0			
Isopropylbenzene	1.5419 1.7476	1.6942 1.7253	1.8354	1.7684	1.6199	Ave		1.704 7			0.1000	5.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9915 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Cyclohexanone	0.3083 0.3297	0.3039 0.3420	0.3361	0.3080	0.3297	Ave		0.322 5				4.8		20.0			
1,1,2,2-Tetrachloroethane	0.8605 0.9626	0.8674 0.9427	0.9602	0.9531	0.8438	Ave		0.912 9			0.3000	5.8		20.0			
Bromobenzene	0.6195 0.7233	0.6950 0.7360	0.7379	0.7008	0.6413	Ave		0.693 4				6.7		20.0			
trans-1,4-Dichloro-2-butene	0.2098 0.2557	0.2118 0.2493	0.2458	0.2461	0.2243	Ave		0.234 7				8.1		20.0			
1,2,3-Trichloropropane	0.2750 0.2773	0.2722 0.2723	0.2834	0.2761	0.2497	Ave		0.272 3				3.9		20.0			
N-Propylbenzene	3.0231 3.5747	3.3990 3.4890	3.6518	3.4999	3.1952	Ave		3.404 7				6.5		20.0			
2-Chlorotoluene	0.6476 0.7468	0.6803 0.7562	0.7486	0.7195	0.6627	Ave		0.708 8				6.3		20.0			
1,3,5-Trimethylbenzene	2.3301 2.9257	2.5118 2.9326	2.7621	2.7717	2.5907	Ave		2.689 2				8.3		20.0			
4-Chlorotoluene	0.6260 0.6957	0.6736 0.7165	0.7295	0.7030	0.6244	Ave		0.681 3				6.2		20.0			
tert-Butylbenzene	0.3766 0.5659	0.4428 0.5684	0.4952	0.5057	0.4985	Ave		0.493 3				13.7		20.0			
1,2,4-Trimethylbenzene	2.3872 2.9031	2.6148 2.9284	2.8772	2.8016	2.5739	Ave		2.726 6				7.5		20.0			
sec-Butylbenzene	2.6677 3.7890	3.1879 3.6446	3.4983	3.5197	3.3560	Ave		3.380 4				10.9		20.0			
1,3-Dichlorobenzene	1.2401 1.4018	1.4113 1.4212	1.4913	1.4073	1.2804	Ave		1.379 1			0.6000	6.3		20.0			
p-Isopropyltoluene	2.4455 3.2671	2.8253 3.2448	3.1043	3.0830	2.8987	Ave		2.981 2				9.6		20.0			
1,4-Dichlorobenzene	1.3959 1.4077	1.4250 1.4268	1.4673	1.4390	1.2724	Ave		1.404 9			0.5000	4.5		20.0			
1,2,3-Trimethylbenzene	2.5889 3.1649	2.8067 3.1906	3.0280	3.0192	2.8013	Ave		2.942 8				7.4		20.0			
Benzyl chloride	1.4690 1.9532	1.6342 1.9579	1.8888	1.8637	1.7089	Ave		1.782 3				10.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9915 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3-Diethylbenzene	1.4311 1.8612	1.7173 1.8760	1.8733	1.8108	1.6672	Ave		1.748 1				9.2		20.0			
1,4-Diethylbenzene	1.5228 1.9120	1.8188 1.9226	1.9869	1.8817	1.7396	Ave		1.826 3				8.5		20.0			
n-Butylbenzene	1.1986 1.5271	1.4678 1.5462	1.5680	1.5191	1.3829	Ave		1.458 5				8.9		20.0			
1,2-Dichlorobenzene	1.3922 1.4897	1.4693 1.5028	1.5861	1.5230	1.3456	Ave		1.472 7		0.4000		5.5		20.0			
1,2-Diethylbenzene	1.2013 1.6067	1.3679 1.6416	1.5067	1.4956	1.4296	Ave		1.464 2				10.2		20.0			
1,2-Dibromo-3-Chloropropane	0.2454 0.2528	0.2173 0.2542	0.2359	0.2460	0.2188	Ave		0.238 6		0.0500		6.4		20.0			
1,3,5-Trichlorobenzene	1.0682 1.2385	1.1285 1.2559	1.2623	1.2319	1.1209	Ave		1.186 6				6.6		20.0			
1,2,4-Trichlorobenzene	1.0648 1.2545	1.1628 1.2243	1.2755	1.2558	1.1549	Ave		1.198 9		0.2000		6.3		20.0			
2-Ethylhexyl acrylate	1.4377	1.0150 1.2819	1.2247	1.2692	1.4302	Ave		1.276 5				12.2		20.0			
Hexachlorobutadiene	0.3702 0.4937	0.3995 0.4986	0.4377	0.4445	0.4388	Ave		0.440 4				10.5		20.0			
Naphthalene	3.8859 4.3654	4.0400 3.8243	4.4465	4.4793	3.9963	Ave		4.148 2				6.6		20.0			
1,2,3-Trichlorobenzene	1.1316 1.3328	1.2221 1.2219	1.3210	1.3332	1.2172	Ave		1.254 3				6.1		20.0			
2-Methylnaphthalene	1.9965 2.7949	2.2198 2.2901	2.5505	2.7194	2.5558	Ave		2.446 7				11.8		20.0			
Dibromofluoromethane (Surr)	0.2511 0.2521	0.2480 0.2459	0.2510	0.2516	0.2556	Ave		0.250 8				1.2		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0599 0.0608	0.0600 0.0609	0.0603	0.0616	0.0607	Ave		0.060 6				1.0		20.0			
Toluene-d8 (Surr)	1.2499 1.2617	1.2693 1.2301	1.2674	1.2869	1.3010	Ave		1.266 6				1.8		20.0			
4-Bromofluorobenzene (Surr)	0.5174 0.4797	0.5141 0.4817	0.5154	0.5060	0.4895	Ave		0.500 5				3.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-528230/12	LL15X11.D
Level 2	IC 410-528230/13	LL15X12.D
Level 3	IC 410-528230/14	LL15X13.D
Level 4	IC 410-528230/15	LL15X14.D
Level 5	ICIS 410-528230/16	LL15X15.D
Level 6	IC 410-528230/17	LL15X16.D
Level 7	IC 410-528230/18	LL15X17.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	9279 1020737	42151 3104825	86769	205202	513847	1.00 100	4.00 300	10.0	20.0	50.0
Chloromethane	FB	Ave	11680 1110744	47228 3317893	94784	223194	560048	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Butadiene	FB	Ave	10703 1049022	48861 3168315	89498	212693	536487	1.00 100	4.00 300	10.0	20.0	50.0
Vinyl chloride	FB	Ave	10388 1096578	46008 3280892	97276	223654	556233	1.00 100	4.00 300	10.0	20.0	50.0
Bromomethane	FB	Ave	7999 855890	37114 2521860	75465	170091	428177	1.00 100	4.00 300	10.0	20.0	50.0
Chloroethane	FB	Ave	5452 567882	25439 1706052	50037	114758	289806	1.00 100	4.00 300	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	17167 1769063	74802 5224737	155489	355729	893549	1.00 100	4.00 300	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	11281 1364400	55158 4197490	114033	270672	680909	1.00 100	4.00 300	10.0	20.0	50.0
n-Pentane	FB	Ave	8405 923540	35702 3079633	89647	180029	420549	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl ether	FB	Ave	4050 428251	16508 1324330	42851	86069	217796	1.000 100.0	4.00 300	10.00	20.0	50.0
Freon 123a	FB	Ave	8521 799376	34561 2429479	71112	159553	408322	1.00 100	4.00 300	10.0	20.0	50.0
Acrolein	TBAd1 0	Ave	16007 1752634	61942 5268398	157709	348407	898603	10.0 1002	40.1 3007	100	200	501
Acetone	TBAd1 0	Ave	1348 150483	5969 555009	17244	32934	77300	2.00 200	8.00 600	20.0	40.0	100
1,1-Dichloroethene	FB	Ave	5520 608315	23536 1965242	61745	118378	283415	1.00 100	4.00 300	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Freon 113	FB	Ave	5547 715582	27081 2294048	71844	142046	333513	1.00 100	4.00 300	10.0	20.0	50.0
2-Propanol	TBAd1 0	Ave	3346 270500	11236 792450	29377	55155	128002	5.00 500	20.0 1500	50.0	100	250
Methyl iodide	FB	Ave	10745 1297970	50563 4065146	128067	261658	604579	1.00 100	4.00 300	10.0	20.0	50.0
Carbon disulfide	FB	Ave	18566 2317407	87117 7256276	221732	446934	1046744	1.00 100	4.00 300	10.0	20.0	50.0
Methyl acetate	FB	Ave	++++ 498467	17301 1508931	51178	95960	221757	++++ 100	4.00 300	10.0	20.0	50.0
Allyl chloride	FB	Ave	7966 837942	35179 2720710	83631	162606	380993	1.00 100	4.00 300	10.0	20.0	50.0
Methylene Chloride	FB	Ave	7426 724522	29512 2262784	72793	142231	332550	1.00 100	4.00 300	10.0	20.0	50.0
t-Butyl alcohol	TBAd1 0	Ave	5448 536225	20539 1456373	56224	113043	237040	5.00 500	20.0 1500	50.0	100	250
Acrylonitrile	FB	Ave	6701 711875	27323 2181243	69505	138987	311154	2.50 250	10.0 750	25.0	50.0	125
trans-1,2-Dichloroethene	FB	Ave	5327 562204	23521 1738033	56632	111806	263401	1.00 100	4.00 300	10.0	20.0	50.0
Methyl tert-butyl ether	FB	Ave	21163 2231046	84003 6866164	228032	442316	1014781	1.00 100	4.00 300	10.0	20.0	50.0
n-Hexane	FB	Ave	6374 704337	29083 2197916	70090	135370	315329	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	7616 923206	37308 2856943	97166	186547	430282	1.00 100	4.00 300	10.0	20.0	50.0
Isopropyl ether	FB	Ave	17742 1927203	73873 6049532	191229	373068	869059	1.00 100	4.00 300	10.0	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	6773 798024	33329 2434916	82291	160965	371753	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl t-butyl ether	FB	Ave	18204 2071523	78074 6390894	203809	403235	940051	1.00 100	4.00 300	10.0	20.0	50.0
2-Butanone (MEK)	FB	Ave	6301 755386	26153 2387696	67486	145639	371845	2.00 200	8.00 600	20.0	40.0	100
cis-1,2-Dichloroethene	FB	Ave	5681 618314	25580 1893123	63494	123968	288304	1.00 100	4.00 300	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	9244 1056858	41407 3354009	108674	206446	485913	1.00 100	4.00 300	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Propionitrile	TBA01	Ave	4903	22406	63497	122332	274527	5.00	20.0	50.0	100	250
			631011	1939635				500	1500			
Methyl acrylate	FB	Ave	745214	23418	69735	137023	353650	100	4.00	10.0	20.0	50.0
			2287661					300				
Methacrylonitrile	FB	Ave	6692	27770	75717	146013	335882	2.50	10.0	25.0	50.0	125
			762429	2333074				250	750			
Bromochloromethane	FB	Ave	3331	12638	34369	64051	147375	1.00	4.00	10.0	20.0	50.0
			318011	977508				100	300			
Tetrahydrofuran	TBA01	Ave	5432	20985	54096	104114	236603	5.00	20.0	50.0	100	250
			530289	1632440				500	1500			
Chloroform	FB	Ave	11991	41042	103075	198147	451241	1.00	4.00	10.0	20.0	50.0
			969583	2941735				100	300			
1,1,1-Trichloroethane	FB	Ave	9234	40806	105483	212317	491480	1.00	4.00	10.0	20.0	50.0
			1080890	3449494				100	300			
Cyclohexane	FB	Ave	10386	45274	116338	231143	546406	1.00	4.00	10.0	20.0	50.0
			1191763	3908236				100	300			
1,1-Dichloropropene	FB	Ave	6976	30113	75656	146060	337921	1.00	4.00	10.0	20.0	50.0
			737524	2254741				100	300			
Carbon tetrachloride	FB	Ave	7271	32318	83112	164696	393553	1.00	4.00	10.0	20.0	50.0
			875320	2868878				100	300			
Isobutyl alcohol	TBA01	Ave	++++	22521	47306	90430	198973	++++	50.0	125	250	625
			450807	1419268				1250	3750			
Benzene	FB	Ave	21650	90534	237275	455390	1035592	1.00	4.00	10.0	20.0	50.0
			2290705	7063773				100	300			
1,2-Dichloroethane	FB	Ave	7401	30779	80030	153780	345524	1.00	4.00	10.0	20.0	50.0
			775695	2389305				100	300			
t-Amyl methyl ether	FB	Ave	18068	69850	200951	392681	923926	1.00	4.00	10.0	20.0	50.0
			2065395	6455996				100	300			
n-Heptane	FB	Ave	7256	28369	74855	144590	336097	1.00	4.00	10.0	20.0	50.0
			763596	2349596				100	300			
n-Butanol	TBA01	Ave	2652	11151	33281	65155	144023	12.5	50.0	125	250	625
			349644	1117949				1250	3750			
Trichloroethene	FB	Ave	5449	24186	59938	115451	267224	1.00	4.00	10.0	20.0	50.0
			602362	1903027				100	300			
Ethyl acrylate	FB	Ave	26451		77277	151599	403851		4.00	10.00	20.0	50.0
			874876	2691891				100.0	300			
Methylcyclohexane	FB	Ave	9643	42824	113810	229714	556988	1.00	4.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			1242590	4117500				100	300			
1,2-Dichloropropane	FB	Ave	4964 581447	22416 1840646	58564	112394	258497	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl ethyl ether	FB	Ave	8294 990648	34320 3234061	92553	182288	427558	1.00 100	4.00 300	10.0	20.0	50.0
Methyl methacrylate	FB	Ave	4633 498295	18095 1634112	47495	92543	212404	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dioxane	TBA d10	Ave	863 108666	3358 335751	10810	21323	47662	12.5 1250	50.0 3750	125	250	625
Dibromomethane	FB	Ave	3975 419094	16514 1328668	42078	79903	186352	1.00 100	4.00 300	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	6369 759589	27104 2456917	71476	139793	328854	1.00 100	4.00 300	10.0	20.0	50.0
2-Nitropropane	TBA d10	Ave	9571 1106056	37147 3513730	102850	205317	465759	5.00 500	20.0 1500	50.0	100	250
2-Chloroethyl vinyl ether	FB	Ave	1746 223368	7586 741899	22739	40202	101047	1.00 100	4.00 300	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	7551 943830	34311 3100688	87430	173167	401823	1.00 100	4.00 300	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	17301 1697464	62785 5298669	162671	331935	838641	2.00 200	8.00 600	20.0	40.0	100
Toluene	CBZ d5	Ave	12970 1482173	56405 4823702	146597	286923	643749	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBZ d5	Ave	6801 859730	29562 2878015	79754	156996	356659	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl methacrylate	CBZ d5	Ave	8008 940339	34677 3035081	92979	181470	398347	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZ d5	Ave	5283 552271	20306 1792328	52957	103209	234799	1.00 100	4.00 300	10.0	20.0	50.0
Tetrachloroethene	CBZ d5	Ave	5515 618432	24563 2038547	61565	120116	269426	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichloropropane	CBZ d5	Ave	8054 872390	32267 2888357	86663	168134	370411	1.00 100	4.00 300	10.0	20.0	50.0
2-Hexanone	CBZ d5	Ave	11284 1069728	40534 3492155	107902	210441	517715	2.00 200	8.00 600	20.0	40.0	100
Dibromochloromethane	CBZ d5	Ave	4605 624633	20549 2119584	55465	110766	256239	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromoethane (EDB)	CBZ d5	Ave	5074 595318	22268 1965806	57526	114784	255777	1.00 100	4.00 300	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1-Chlorohexane	CBZd5	Ave	8937 763396	32119 2530582	81307	150862	328353	1.00 100	4.00 300	10.0	20.0	50.0
Chlorobenzene	CBZd5	Ave	15084 1609542	63462 5462636	163865	311071	685489	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZd5	Ave	5776 692710	23633 2292781	64190	130998	300150	1.00 100	4.00 300	10.0	20.0	50.0
Ethylbenzene	CBZd5	Ave	27519 2952359	117020 9777025	308706	580076	1265090	1.00 100	4.00 300	10.0	20.0	50.0
m&p-Xylene	CBZd5	Ave	21155 2310900	91649 7669445	241495	452219	987937	2.00 200	8.00 600	20.0	40.0	100
n-Butyl acrylate	CBZd5	Ave	47731 1352429	141486 4226999	254037	641635		4.00 100	300	10.0	20.0	50.0
o-Xylene	CBZd5	Ave	11522 1251521	48155 4118269	128184	247190	544154	1.00 100	4.00 300	10.0	20.0	50.0
Styrene	CBZd5	Ave	16649 1882420	73242 6361522	199168	372554	810567	1.00 100	4.00 300	10.0	20.0	50.0
Bromoform	CBZd5	Ave	3665 448928	15142 1566057	40611	79591	183015	1.00 100	4.00 300	10.0	20.0	50.0
Isopropylbenzene	CBZd5	Ave	27758 3207098	121345 10394611	326192	617772	1387801	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexanone	TBA d1 0	Ave	17286 495867	69688 1576425	94835	181036	243605	50.0 1250	200 3750	250	500	625
1,1,2,2-Tetrachloroethane	DCBd4	Ave	9519 969208	37773 3160390	102093	196535	410940	1.00 100	4.00 300	10.0	20.0	50.0
Bromobenzene	DCBd4	Ave	6853 728274	30268 2467435	78464	144511	312323	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd4	Ave	5803 643752	23056 2089240	65336	126866	273110	2.50 250	10.0 750	25.0	50.0	125
1,2,3-Trichloropropane	DCBd4	Ave	3042 279242	11853 912986	30138	56941	121617	1.00 100	4.00 300	10.0	20.0	50.0
N-Propylbenzene	DCBd4	Ave	33440 3599245	148025 11696571	388289	721713	1556187	1.00 100	4.00 300	10.0	20.0	50.0
2-Chlorotoluene	DCBd4	Ave	7163 751927	29625 2535132	79599	148367	322751	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd4	Ave	25775 2945720	109385 9831178	293694	571554	1261785	1.00 100	4.00 300	10.0	20.0	50.0
4-Chlorotoluene	DCBd4	Ave	6925 700453	29336 2401971	77571	144961	304116	1.00 100	4.00 300	10.0	20.0	50.0
tert-Butylbenzene	DCBd4	Ave	4166	19282	52658	104288	242779	1.00	4.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			569792	1905449				100	300			
1,2,4-Trimethylbenzene	DCBd4	Ave	26406 2922977	113874 9817317	305935	577719	1253589	1.00 100	4.00 300	10.0	20.0	50.0
sec-Butylbenzene	DCBd4	Ave	29509 3814975	138830 12218165	371967	725779	1634520	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd4	Ave	13718 1411425	61459 4764575	158568	290192	623621	1.00 100	4.00 300	10.0	20.0	50.0
p-Isopropyltoluene	DCBd4	Ave	27051 3289461	123039 10877945	330078	635746	1411794	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dichlorobenzene	DCBd4	Ave	15441 1417344	62057 4783217	156013	296737	619689	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trimethylbenzene	DCBd4	Ave	28637 3186579	122228 10696073	321963	622575	1364319	1.00 100	4.00 300	10.0	20.0	50.0
Benzyl chloride	DCBd4	Ave	16249 1966629	71167 6563849	200834	384318	832320	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Diethylbenzene	DCBd4	Ave	15830 1873963	74788 6289216	199183	373405	811994	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Diethylbenzene	DCBd4	Ave	16845 1925104	79208 6445406	211264	388017	847246	1.00 100	4.00 300	10.0	20.0	50.0
n-Butylbenzene	DCBd4	Ave	13258 1537550	63923 5183490	166722	313254	673514	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd4	Ave	15400 1499959	63988 5037864	168648	314059	655351	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Diethylbenzene	DCBd4	Ave	13288 1617709	59573 5503267	160206	308404	696256	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	2714 254526	9463 852085	25085	50718	106567	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trichlorobenzene	DCBd4	Ave	11816 1247010	49145 4210244	134223	254032	545915	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd4	Ave	11778 1263070	50640 4104424	135626	258948	562456	1.00 100	4.00 300	10.0	20.0	50.0
2-Ethylhexyl acrylate	DCBd4	Ave	44205 1447618	4297754	130229	261735	696581	100	4.00 300	10.0	20.0	50.0
Hexachlorobutadiene	DCBd4	Ave	4095 497105	17398 1671348	46541	91650	213689	1.00 100	4.00 300	10.0	20.0	50.0
Naphthalene	DCBd4	Ave	42984 4395279	175939 12820653	472793	923661	1946327	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd4	Ave	12517 1341929	53223 4096443	140459	274921	592822	1.00 100	4.00 300	10.0	20.0	50.0
2-Methylnaphthalene	DCBd4	Ave	22085	96671	271192	560751	1244764	1.00	4.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			2814024	7677447				100	300			
Dibromofluoromethane (Surr)	FB	Ave	284776 286260	283336 285566	281206	284431	290785	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	67951 69061	68533 70757	67524	69631	69100	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBZd5	Ave	1124989 1157670	1136377 1235181	1126224	1123908	1114613	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	465708 440157	460250 483656	457973	441890	419387	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9915 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-528230/12	LL15X11.D
Level 2	IC 410-528230/13	LL15X12.D
Level 3	IC 410-528230/14	LL15X13.D
Level 4	IC 410-528230/15	LL15X14.D
Level 5	ICIS 410-528230/16	LL15X15.D
Level 6	IC 410-528230/17	LL15X16.D
Level 7	IC 410-528230/18	LL15X17.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-6.4 2.0	5.6	-11.4	3.9	3.4	2.9	50 30	30	30	30	30	30
Chloromethane	5.8 -2.1	6.2	-13.1	1.5	1.2	0.5	50 30	30	30	30	30	30
1,3-Butadiene	1.2 -2.5	14.6	-14.4	0.9	1.1	-1.0	50 30	30	30	30	30	30
Vinyl chloride	-3.8 -1.1	5.7	-8.8	3.9	2.7	1.4	50 30	30	30	30	30	30
Bromomethane	-4.6 -2.1	9.9	-8.9	1.8	1.8	2.0	50 30	30	30	30	30	30
Chloroethane	-3.6 -1.8	11.6	-10.5	1.8	2.2	0.3	50 30	30	30	30	30	30
Dichlorofluoromethane	-1.3 -2.3	6.7	-9.6	2.6	2.4	1.5	50 30	30	30	30	30	30
Trichlorofluoromethane	-13.2 5.2	5.4	-11.2	4.5	4.5	4.9	50 30	30	30	30	30	30
n-Pentane	-6.6 11.4	-1.6	0.8	0.3	-6.8	2.5	50 30	30	30	30	30	30
Ethyl ether	-4.6 1.5	-3.5	2.1	1.7	2.2	0.7	50 30	30	30	30	30	30
Freon 123a	5.9 -1.7	6.6	-10.6	-0.5	1.2	-0.8	50 30	30	30	30	30	30
Acrolein	-0.7 -0.6	-6.0	-2.8	3.1	5.7	1.3	50 30	30	30	30	30	30
Acetone	-11.4 11.0	-4.1	12.6	3.3	-3.6	-7.8	50 30	30	30	30	30	30
1,1-Dichloroethene	-7.3 7.5	-1.9	5.0	-0.2	-5.1	2.1	50 30	30	30	30	30	30
Freon 113	-19.0 9.1	-1.8	6.2	4.1	-2.9	4.4	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9915 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
2-Propanol	23.3 -11.2	1.2	7.5	-3.1	-10.6	-7.1	50 30	30	30	30	30	30
Methyl iodide	-14.2 5.7	0.2	3.5	4.9	-3.7	3.5	50 30	30	30	30	30	30
Carbon disulfide	-14.9 8.3	-0.9	2.9	2.8	-4.3	6.1	50 30	30	30	30	30	30
Methyl acetate	++++ 3.1	-9.9	8.7	1.0	-7.2	4.4	50 30	50	30	30	30	30
Allyl chloride	-4.1 6.6	5.1	1.9	-1.8	-8.5	0.8	50 30	30	30	30	30	30
Methylene Chloride	3.0 2.1	1.6	2.2	-1.1	-8.1	0.3	50 30	30	30	30	30	30
t-Butyl alcohol	7.8 -12.4	-0.6	10.6	6.7	-11.0	-1.1	50 30	30	30	30	30	30
Acrylonitrile	-2.1 3.8	-0.9	2.8	1.9	-9.4	3.9	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-4.5 1.5	4.7	2.8	0.6	-5.8	0.7	50 30	30	30	30	30	30
Methyl tert-butyl ether	-2.6 2.8	-4.1	6.2	2.1	-6.9	2.5	50 30	30	30	30	30	30
n-Hexane	-6.9 4.4	5.4	3.6	-0.9	-8.2	2.7	50 30	30	30	30	30	30
1,1-Dichloroethane	-15.6 3.1	2.6	9.0	3.7	-4.9	2.2	50 30	30	30	30	30	30
Isopropyl ether	-4.8 5.7	-1.6	3.9	0.5	-7.0	3.3	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-13.4 1.3	5.7	6.5	3.2	-5.3	1.9	50 30	30	30	30	30	30
Ethyl t-butyl ether	-8.1 5.0	-2.2	4.1	2.1	-5.4	4.4	50 30	30	30	30	30	30
2-Butanone (MEK)	-11.2 9.6	-8.5	-3.7	3.0	4.5	6.3	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-7.0 0.9	3.9	5.2	1.8	-5.9	1.1	50 30	30	30	30	30	30
2,2-Dichloropropane	-10.2 6.1	-0.1	6.9	0.6	-5.9	2.6	50 30	30	30	30	30	30
Propionitrile	-13.1 4.5	-2.9	11.8	3.4	-7.7	4.2	50 30	30	30	30	30	30
Methyl acrylate	7.2	-16.3	1.6	-1.1	1.5	7.1	30	50	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Methacrylonitrile	-7.2 5.3	-4.4	6.3	1.6	-7.1	5.6	50 30	30	30	30	30	30
Bromochloromethane	3.8 -0.8	-2.2	8.4	0.2	-8.4	-1.0	50 30	30	30	30	30	30
Tetrahydrofuran	7.7 -1.6	1.8	6.6	-1.5	-11.0	-2.0	50 30	30	30	30	30	30
Chloroform	18.6 -5.3	0.7	3.1	-1.7	-11.1	-4.3	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-10.9 8.4	-2.2	3.1	2.8	-5.4	4.2	50 30	30	30	30	30	30
Cyclohexane	-9.7 10.6	-2.3	2.4	0.8	-5.3	3.5	50 30	30	30	30	30	30
1,1-Dichloropropene	-4.0 1.0	2.8	5.4	0.8	-7.3	1.3	50 30	30	30	30	30	30
Carbon tetrachloride	-12.1 12.9	-3.0	1.7	-0.1	-5.1	5.7	50 30	30	30	30	30	30
Isobutyl alcohol	++++ -3.4	23.2	5.2	-3.5	-15.5	-6.0	30	50	30	30	30	30
Benzene	-3.8 2.2	-0.1	6.7	1.5	-8.2	1.7	50 30	30	30	30	30	30
1,2-Dichloroethane	-2.7 2.2	0.4	6.4	1.4	-9.5	1.8	50 30	30	30	30	30	30
t-Amyl methyl ether	-6.7 8.6	-10.4	5.1	1.8	-4.8	6.6	50 30	30	30	30	30	30
n-Heptane	-0.6 4.8	-3.6	3.8	-0.6	-8.2	4.5	50 30	30	30	30	30	30
n-Butanol	-12.4 12.3	-9.9	9.3	2.7	-9.7	7.7	50 30	30	30	30	30	30
Trichloroethene	-6.6 6.2	2.9	4.0	-0.7	-8.7	3.1	50 30	30	30	30	30	30
Ethyl acrylate	10.6	-17.2	-1.3	-4.0	1.6	10.3	30	50	30	30	30	30
Methylcyclohexane	-15.9 16.9	-7.3	0.5	0.5	-3.1	8.3	50 30	30	30	30	30	30
1,2-Dichloropropane	-11.0 7.4	-0.3	6.3	1.1	-7.6	4.1	50 30	30	30	30	30	30
t-Amyl ethyl ether	-9.7 14.7	-7.2	2.0	-0.4	-7.2	7.8	50 30	30	30	30	30	30
Methyl methacrylate	-2.0 12.5	-5.0	1.6	-1.8	-10.5	5.2	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dioxane	-10.0 6.5	-14.4	12.0	6.0	-5.7	5.6	50 30	30	30	30	30	30
Dibromomethane	-2.6 6.0	0.4	4.4	-1.8	-9.0	2.6	50 30	30	30	30	30	30
Bromodichloromethane	-9.9 13.1	-4.8	2.3	-0.8	-7.3	7.3	50 30	30	30	30	30	30
2-Nitropropane	-2.2 9.2	-7.2	4.4	0.1	-9.7	5.4	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-16.3 15.7	-9.8	10.3	-3.4	-3.5	6.9	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-13.5 15.6	-2.5	1.3	-0.5	-8.3	7.9	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	3.6 3.3	-6.7	-1.4	-0.3	0.1	1.5	50 30	30	30	30	30	30
Toluene	-8.5 1.6	0.0	4.7	4.3	-4.6	2.5	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-13.3 9.6	-5.3	3.0	3.1	-4.5	7.5	50 30	30	30	30	30	30
Ethyl methacrylate	-9.8 2.1	-1.8	6.1	5.3	-5.7	3.9	50 30	30	30	30	30	30
1,1,2-Trichloroethane	0.6 1.9	-2.9	2.1	1.2	-6.1	3.1	50 30	30	30	30	30	30
Tetrachloroethene	-7.9 1.7	3.1	4.1	3.3	-5.5	1.3	50 30	30	30	30	30	30
1,3-Dichloropropane	-3.8 3.1	-3.1	4.9	3.5	-7.0	2.3	50 30	30	30	30	30	30
2-Hexanone	5.2 -2.7	-5.0	1.9	1.1	1.5	-2.1	50 30	30	30	30	30	30
Dibromochloromethane	-17.2 13.8	-7.2	1.0	2.6	-3.2	10.1	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-10.1 4.1	-0.8	3.3	4.8	-4.8	3.5	50 30	30	30	30	30	30
1-Chlorohexane	13.8 -3.7	2.8	4.9	-1.0	-12.1	-4.6	50 30	30	30	30	30	30
Chlorobenzene	-4.2 3.7	1.3	5.5	1.8	-8.5	0.3	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-10.0 6.8	-7.4	1.3	5.2	-1.7	5.9	50 30	30	30	30	30	30
Ethylbenzene	-5.0 0.8	1.5	7.9	3.2	-8.3	-0.1	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
m&p-Xylene	-6.5 1.3	1.9	8.2	3.1	-8.2	0.2	50 30	30	30	30	30	30
n-Butyl acrylate	-3.8 -5.5 0.9	-8.7	9.1	-0.3	2.7	1.0	30 50 30	50	30	30	30	30
o-Xylene	-9.6 3.2	-0.1	9.5	4.2	-7.5	0.3	50 30	30	30	30	30	30
Styrene	-10.3 14.5	-6.9	0.6	0.3	-5.9	7.7	50 30	30	30	30	30	30
Bromoform	-9.5 1.2	-0.6	7.7	3.7	-5.0	2.5	50 30	30	30	30	30	30
Isopropylbenzene	-4.4 6.0	-5.8	4.2	-4.5	2.2	2.2	50 30	30	30	30	30	30
Cyclohexanone	-5.7 3.3	-5.0	5.2	4.4	-7.6	5.4	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-10.7 6.1	0.2	6.4	1.1	-7.5	4.3	50 30	30	30	30	30	30
Bromobenzene	-10.6 6.2	-9.8	4.7	4.9	-4.4	9.0	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	1.0 0.0	0.0	4.1	1.4	-8.3	1.8	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-11.2 2.5	-0.2	7.3	2.8	-6.2	5.0	50 30	30	30	30	30	30
N-Propylbenzene	-8.6 6.7	-4.0	5.6	1.5	-6.5	5.4	50 30	30	30	30	30	30
2-Chlorotoluene	-13.4 9.0	-6.6	2.7	3.1	-3.7	8.8	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-8.1 5.2	-1.1	7.1	3.2	-8.3	2.1	50 30	30	30	30	30	30
4-Chlorotoluene	-23.7 15.2	-10.2	0.4	2.5	1.0	14.7	50 30	30	30	30	30	30
tert-Butylbenzene	-12.4 7.4	-4.1	5.5	2.8	-5.6	6.5	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-21.1 7.8	-5.7	3.5	4.1	-0.7	12.1	50 30	30	30	30	30	30
sec-Butylbenzene	-10.1 3.1	2.3	8.1	2.0	-7.2	1.6	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-18.0 8.8	-5.2	4.1	3.4	-2.8	9.6	50 30	30	30	30	30	30
p-Isopropyltoluene												

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1 Analy Batch No.: 528230
Environment Testing, LLC

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2024 17:41 Calibration End Date: 07/15/2024 19:57 Calibration ID: 63834

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dichlorobenzene	-0.6 1.6	1.4	4.4	2.4	-9.4	0.2	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-12.0 8.4	-4.6	2.9	2.6	-4.8	7.5	50 30	30	30	30	30	30
Benzyl chloride	-17.6 9.9	-8.3	6.0	4.6	-4.1	9.6	50 30	30	30	30	30	30
1,3-Diethylbenzene	-18.1 7.3	-1.8	7.2	3.6	-4.6	6.5	50 30	30	30	30	30	30
1,4-Diethylbenzene	-16.6 5.3	-0.4	8.8	3.0	-4.8	4.7	50 30	30	30	30	30	30
n-Butylbenzene	-17.8 6.0	0.6	7.5	4.2	-5.2	4.7	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-5.5 2.0	-0.2	7.7	3.4	-8.6	1.2	50 30	30	30	30	30	30
1,2-Diethylbenzene	-18.0 12.1	-6.6	2.9	2.1	-2.4	9.7	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	2.8 6.5	-8.9	-1.1	3.1	-8.3	5.9	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-10.0 5.8	-4.9	6.4	3.8	-5.5	4.4	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-11.2 2.1	-3.0	6.4	4.7	-3.7	4.6	50 30	30	30	30	30	30
2-Ethylhexyl acrylate	0.4	-20.5	-4.1	-0.6	12.0	12.6	30	50	30	30	30	30
Hexachlorobutadiene	-15.9 13.2	-9.3	-0.6	0.9	-0.4	12.1	50 30	30	30	30	30	30
Naphthalene	-6.3 -7.8	-2.6	7.2	8.0	-3.7	5.2	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-9.8 -2.6	-2.6	5.3	6.3	-3.0	6.3	50 30	30	30	30	30	30
2-Methylnaphthalene	-18.4 -6.4	-9.3	4.2	11.1	4.5	14.2	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	0.1 -1.9	-1.1	0.1	0.3	1.9	0.5	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-1.1 0.5	-1.0	-0.6	1.6	0.2	0.3	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-1.3 -2.9	0.2	0.1	1.6	2.7	-0.4	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	3.4 -3.8	2.7	3.0	1.1	-2.2	-4.2	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X11.D
 Lims ID: IC v1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 15-Jul-2024 17:41:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119345-012
 Misc. Info.: IC V1
 Operator ID: knk41612 Instrument ID: 9915
 Sublist: chrom-MSVoa_9915a*sub91
 Method: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 16-Jul-2024 20:47:14 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1659

First Level Reviewer: UKEK

Date: 16-Jul-2024 20:46:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.940	1.946	-0.006	30	9279	1.00	0.9365	
4 Chloromethane	50	2.136	2.142	-0.006	98	11680	1.00	1.06	
6 Butadiene	39	2.251	2.245	0.006	93	10703	1.00	1.01	M
5 Vinyl chloride	62	2.245	2.255	-0.010	95	10388	1.00	0.9620	
8 Bromomethane	94	2.579	2.589	-0.010	87	7999	1.00	0.9544	
9 Chloroethane	64	2.653	2.653	0.000	50	5452	1.00	0.9640	
10 Dichlorofluoromethane	67	2.891	2.898	-0.007	51	17167	1.00	0.9866	
11 Trichlorofluoromethane	101	2.968	2.975	-0.007	53	11281	1.00	0.8682	
12 Pentane	43	2.978	2.991	-0.013	89	8405	1.00	0.9339	
13 Ethyl ether	59	3.168	3.171	-0.003	61	4050	1.00	0.9535	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.293	3.284	0.009	37	8521	1.00	1.06	
16 Acrolein	56	3.351	3.332	0.019	82	16007	10.0	9.95	M
18 Acetone	58	3.496	3.489	0.007	71	1348	2.00	1.77	
17 1,1-Dichloroethene	96	3.505	3.512	-0.007	53	5520	1.00	0.9273	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.518	3.528	-0.010	37	5547	1.00	0.8102	
20 Isopropyl alcohol	45	3.753	3.666	0.087	14	3346	5.00	6.16	
21 Iodomethane	142	3.692	3.705	-0.013	81	10745	1.00	0.8584	
22 Carbon disulfide	76	3.795	3.805	-0.010	83	18566	1.00	0.8512	
24 Methyl acetate	43	3.927	3.907	0.020	41	7095	1.00	1.49	M
25 3-Chloro-1-propene	41	3.923	3.936	-0.013	67	7966	1.00	0.9592	M
27 Methylene Chloride	84	4.132	4.145	-0.013	16	7426	1.00	1.03	M
* 28 t-Butyl alcohol-d10 (IS)	65	4.168	4.181	-0.013	9	280335	250.0	250.0	
29 2-Methyl-2-propanol	59	4.296	4.313	-0.017	15	5448	5.00	5.39	M
30 Acrylonitrile	53	4.454	4.438	0.016	31	6701	2.50	2.45	M
31 trans-1,2-Dichloroethene	96	4.521	4.528	-0.007	49	5327	1.00	0.9555	
32 Methyl tert-butyl ether	73	4.544	4.557	-0.013	77	21163	1.00	0.9737	M
34 Hexane	57	4.968	4.972	-0.004	72	6374	1.00	0.9305	
35 1,1-Dichloroethane	63	5.177	5.187	-0.010	30	7616	1.00	0.8440	
37 Isopropyl ether	45	5.264	5.271	-0.007	93	17742	1.00	0.9524	
38 2-Chloro-1,3-butadiene	53	5.306	5.300	0.006	49	6773	1.00	0.8659	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.779	5.808	-0.029	88	18204	1.00	0.9190	M
40 2-Butanone (MEK)	43	6.042	6.004	0.038	63	6301	2.00	1.78	
42 cis-1,2-Dichloroethene	96	6.017	6.030	-0.013	81	5681	1.00	0.9301	
43 2,2-Dichloropropane	77	6.062	6.058	0.004	66	9244	1.00	0.8983	
45 Propionitrile	54	6.110	6.081	0.029	80	4903	5.00	4.34	
S 41 1,2-Dichloroethene, Total	100				0			1.89	
47 Methacrylonitrile	67	6.312	6.296	0.016	72	6692	2.50	2.32	
48 Chlorobromomethane	128	6.354	6.354	0.000	54	3331	1.00	1.04	
49 Tetrahydrofuran	71	6.390	6.380	0.010	66	5432	5.00	5.39	
50 Chloroform	83	6.505	6.515	-0.010	92	11991	1.00	1.19	
\$ 51 Dibromofluoromethane (Surr)	113	6.730	6.730	0.000	93	284776	50.0	50.1	
52 1,1,1-Trichloroethane	97	6.763	6.759	0.004	40	9234	1.00	0.8915	
53 Cyclohexane	56	6.859	6.862	-0.003	83	10386	1.00	0.9031	
55 1,1-Dichloropropene	75	6.962	6.959	0.003	96	6976	1.00	0.9599	
54 Carbon tetrachloride	117	6.955	6.965	-0.010	82	7271	1.00	0.8792	
56 Isobutyl alcohol	41	7.152	7.126	0.026	33	7769	12.5	21.7	
\$ 57 1,2-Dichloroethane-d4 (Surr)	102	7.181	7.187	-0.007	90	67951	50.0	49.4	
58 Benzene	78	7.216	7.222	-0.006	92	21650	1.00	0.9623	
59 1,2-Dichloroethane	62	7.290	7.293	-0.003	63	7401	1.00	0.9726	
61 Tert-amyl methyl ether	73	7.415	7.428	-0.013	96	18068	1.00	0.9334	M
* 62 Fluorobenzene (IS)	96	7.627	7.628	-0.001	99	1134043	50.0	50.0	
63 n-Heptane	43	7.660	7.653	0.007	46	7256	1.00	0.99	
65 n-Butanol	56	8.029	8.010	0.019	38	2652	12.5	11.0	
66 Trichloroethene	95	8.119	8.110	0.009	92	5449	1.00	0.9338	
68 Methylcyclohexane	83	8.422	8.425	-0.003	87	9643	1.00	0.8414	
69 1,2-Dichloropropane	63	8.438	8.438	0.000	73	4964	1.00	0.8900	
70 2-ethoxy-2-methyl butane	87	8.457	8.460	-0.003	92	8294	1.00	0.9034	
71 Methyl methacrylate	69	8.544	8.528	0.016	59	4633	1.00	0.9797	M
72 1,4-Dioxane	88	8.531	8.531	0.000	27	863	12.5	11.2	M
73 Dibromomethane	93	8.541	8.547	-0.006	90	3975	1.00	0.9741	
75 Dichlorobromomethane	83	8.791	8.788	0.003	97	6369	1.00	0.9010	
76 2-Nitropropane	41	9.052	9.052	0.000	92	9571	5.00	4.89	
77 2-Chloroethyl vinyl ether	63	9.155	9.155	0.000	31	1746	1.00	0.8368	M
78 cis-1,3-Dichloropropene	75	9.341	9.345	-0.003	93	7551	1.00	0.8647	
79 4-Methyl-2-pentanone (MIBK)	43	9.528	9.521	0.007	98	17301	2.00	2.07	
\$ 80 Toluene-d8 (Surr)	98	9.656	9.660	-0.004	93	1124989	50.0	49.3	
81 Toluene	92	9.737	9.737	0.000	98	12970	1.00	0.9147	
120 trans-1,3-Dichloropropene	75	9.997	9.994	0.003	88	6801	1.00	0.8667	
S 119 1,3-Dichloropropene, Total	100				0			1.73	
121 Ethyl methacrylate	69	10.065	10.062	0.003	90	8008	1.00	0.9019	
122 1,1,2-Trichloroethane	97	10.203	10.200	0.003	87	5283	1.00	1.01	
123 Tetrachloroethene	166	10.293	10.293	0.000	95	5515	1.00	0.9206	
124 1,3-Dichloropropane	76	10.370	10.361	0.009	96	8054	1.00	0.9624	
125 2-Hexanone	43	10.418	10.418	0.000	94	11284	2.00	2.10	
128 Chlorodibromomethane	129	10.579	10.579	0.000	88	4605	1.00	0.8278	
129 Ethylene Dibromide	107	10.695	10.689	0.007	98	5074	1.00	0.8992	
* 130 Chlorobenzene-d5 (IS)	117	11.126	11.126	0.000	85	900098	50.0	50.0	
132 1-Chlorohexane	91	11.142	11.139	0.003	94	8937	1.00	1.14	Ma
133 Chlorobenzene	112	11.151	11.155	-0.004	94	15084	1.00	0.9583	
134 1,1,1,2-Tetrachloroethane	131	11.238	11.235	0.003	60	5776	1.00	0.9001	
135 Ethylbenzene	91	11.245	11.242	0.003	99	27519	1.00	0.9496	
S 131 Xylenes, Total	106				0			2.82	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
136 m-Xylene & p-Xylene	106	11.360	11.357	0.003	100	21155	2.00	1.87	
138 o-Xylene	106	11.688	11.688	0.000	96	11522	1.00	0.9448	
139 Styrene	104	11.708	11.701	0.007	93	16649	1.00	0.9039	
140 Bromoform	173	11.852	11.856	-0.004	94	3665	1.00	0.8966	
142 Isopropylbenzene	105	11.987	11.991	-0.004	95	27758	1.00	0.9045	
141 Cyclohexanone	55	12.061	12.061	0.000	93	17286	50.0	47.8	
\$ 143 4-Bromofluorobenzene (Surr)	95	12.132	12.132	0.000	89	465708	50.0	51.7	
145 1,1,2,2-Tetrachloroethane	83	12.232	12.232	0.000	93	9519	1.00	0.9427	
146 Bromobenzene	156	12.245	12.248	-0.003	94	6853	1.00	0.8934	
147 trans-1,4-Dichloro-2-butene	53	12.261	12.258	0.003	91	5803	2.50	2.24	
148 1,2,3-Trichloropropane	110	12.274	12.280	-0.006	80	3042	1.00	1.01	
149 N-Propylbenzene	91	12.319	12.319	0.000	99	33440	1.00	0.8879	
150 2-Chlorotoluene	126	12.396	12.396	0.000	97	7163	1.00	0.9136	
151 1,3,5-Trimethylbenzene	105	12.457	12.457	0.000	92	25775	1.00	0.8665	a
153 4-Chlorotoluene	126	12.489	12.486	0.003	97	6925	1.00	0.9190	
154 tert-Butylbenzene	134	12.695	12.698	-0.003	92	4166	1.00	0.7635	
156 1,2,4-Trimethylbenzene	105	12.740	12.740	0.000	96	26406	1.00	0.8755	
157 sec-Butylbenzene	105	12.862	12.862	0.000	94	29509	1.00	0.7892	
158 1,3-Dichlorobenzene	146	12.958	12.959	0.000	90	13718	1.00	0.8993	
159 4-Isopropyltoluene	119	12.968	12.968	0.000	98	27051	1.00	0.8203	
* 160 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	553080	50.0	50.0	
161 1,4-Dichlorobenzene	146	13.029	13.029	0.000	94	15441	1.00	0.99	
162 1,2,3-Trimethylbenzene	105	13.042	13.045	-0.003	97	28637	1.00	0.8797	
163 Benzyl chloride	91	13.110	13.106	0.004	98	16249	1.00	0.8242	
164 1,3-Diethylbenzene	119	13.171	13.171	0.000	93	15830	1.00	0.8186	
165 p-Diethylbenzene	119	13.241	13.241	0.000	95	16845	1.00	0.8338	
166 n-Butylbenzene	92	13.261	13.261	0.000	97	13258	1.00	0.8218	
167 1,2-Dichlorobenzene	146	13.293	13.293	0.000	98	15400	1.00	0.9454	
168 o-diethylbenzene	119	13.312	13.312	0.000	93	13288	1.00	0.8204	
170 1,2-Dibromo-3-Chloropropane	75	13.836	13.827	0.009	82	2714	1.00	1.03	
171 1,3,5-Trichlorobenzene	180	13.962	13.958	0.004	97	11816	1.00	0.9002	
172 1,2,4-Trichlorobenzene	180	14.386	14.383	0.003	93	11778	1.00	0.8881	
174 Hexachlorobutadiene	225	14.463	14.466	-0.003	94	4095	1.00	0.8406	
175 Naphthalene	128	14.563	14.563	0.000	96	42984	1.00	0.9368	
176 1,2,3-Trichlorobenzene	180	14.708	14.704	0.004	95	12517	1.00	0.9022	
177 2-Methylnaphthalene	142	15.322	15.319	0.003	91	22085	1.00	0.8160	
S 188 Total Diethylbenzene	1				0			2.47	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_4ppbEE_00593

Amount Added: 12.50

Units: mL

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X11.D

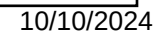
Operator ID: knk41612

Worklist Smp#: 12

ALS Bottle#: 11

Limit Group: MSV - 8260C D

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

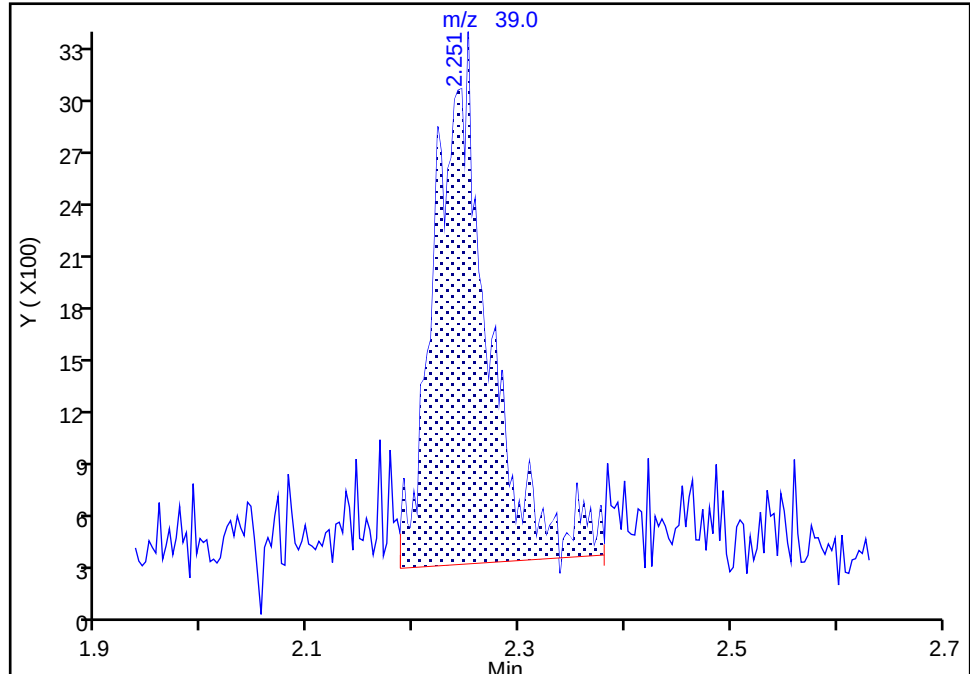
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Injection Date: 15-Jul-2024 17:41:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

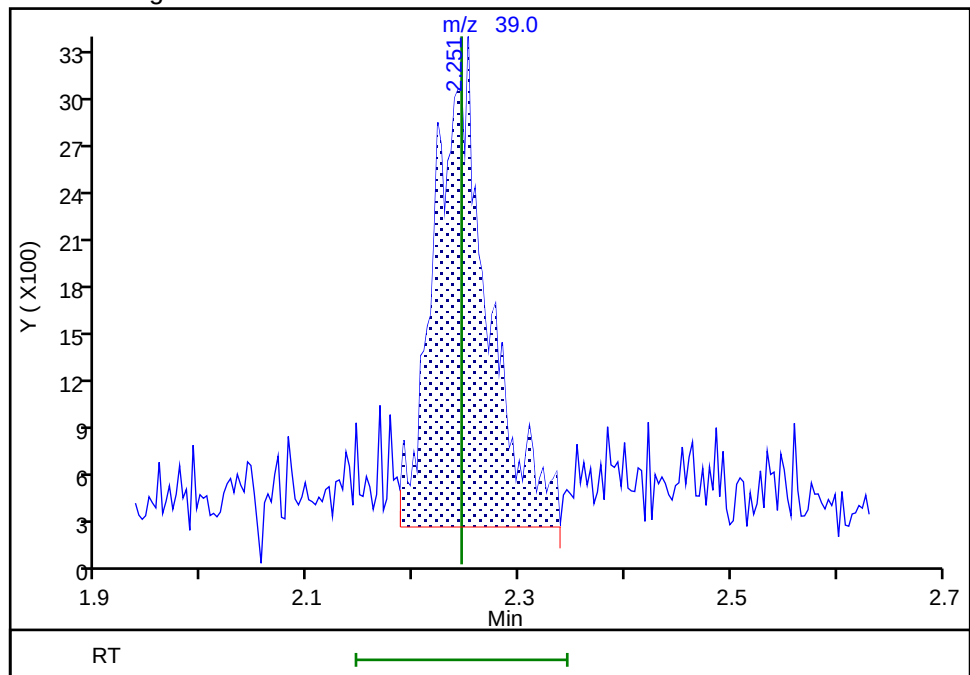
RT: 2.25
Area: 10614
Amount: 1.004699
Amount Units: ug/l

Processing Integration Results



RT: 2.25
Area: 10703
Amount: 1.011906
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 16-Jul-2024 19:17:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

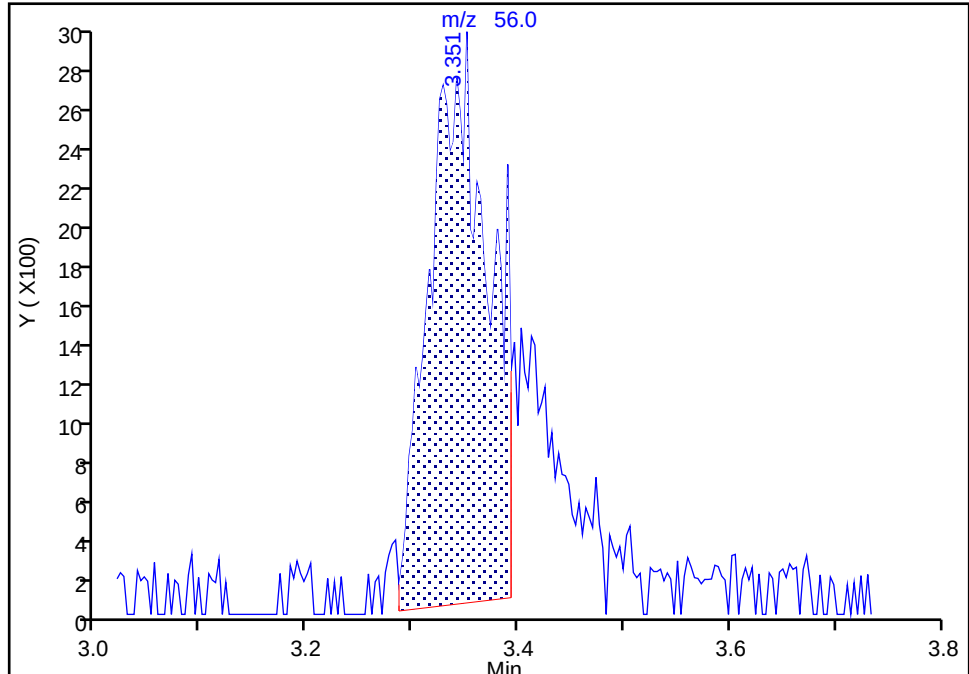
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Injection Date: 15-Jul-2024 17:41:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

16 Acrolein, CAS: 107-02-8

Signal: 1

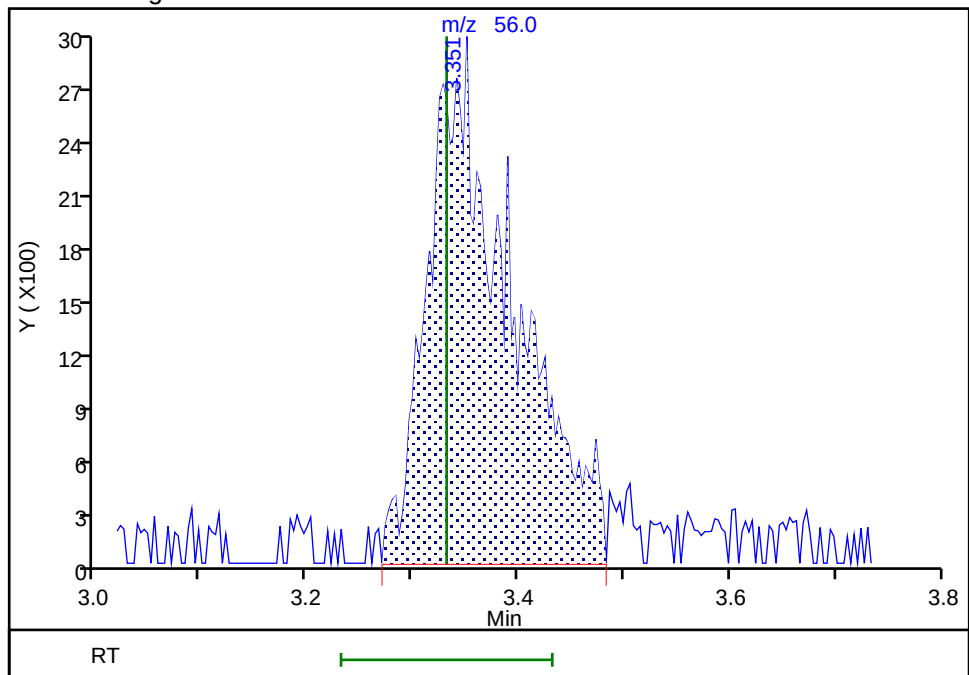
RT: 3.35
Area: 11133
Amount: 7.233253
Amount Units: ug/l

Processing Integration Results



RT: 3.35
Area: 16007
Amount: 9.950772
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:48:27 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

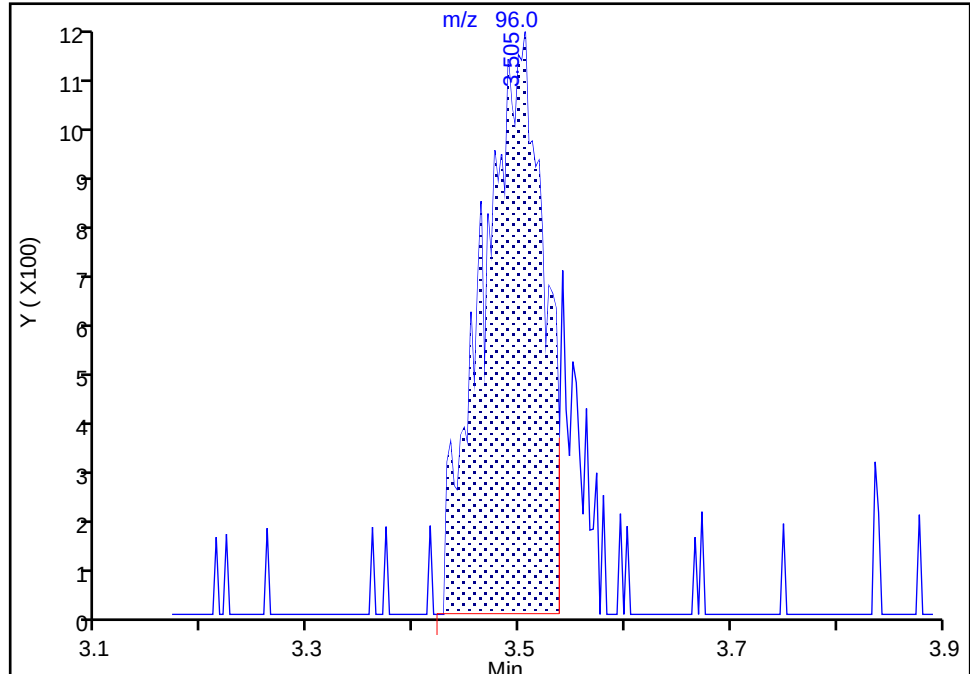
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Injection Date: 15-Jul-2024 17:41:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

17 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

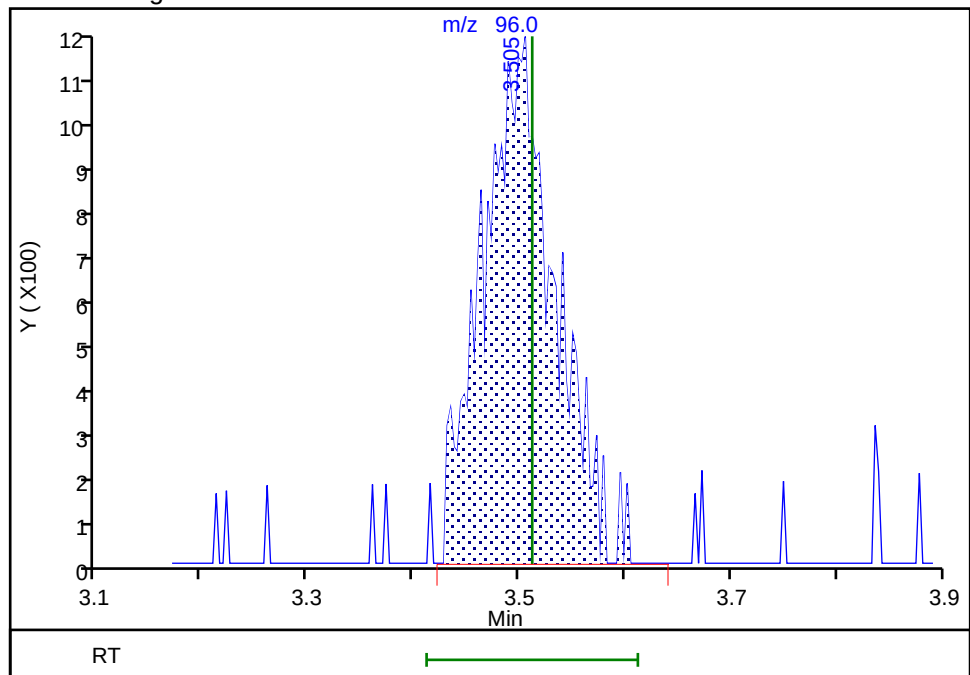
RT: 3.51
Area: 4639
Amount: 0.796128
Amount Units: ug/l

Processing Integration Results



RT: 3.51
Area: 5520
Amount: 0.927294
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:48:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

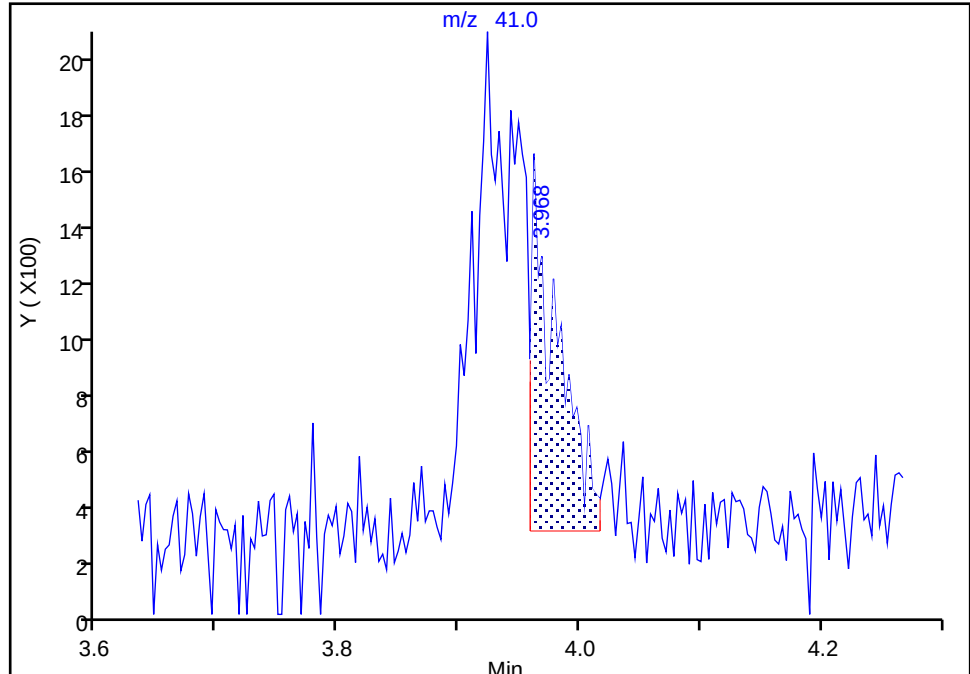
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Injection Date: 15-Jul-2024 17:41:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) MS Quad

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

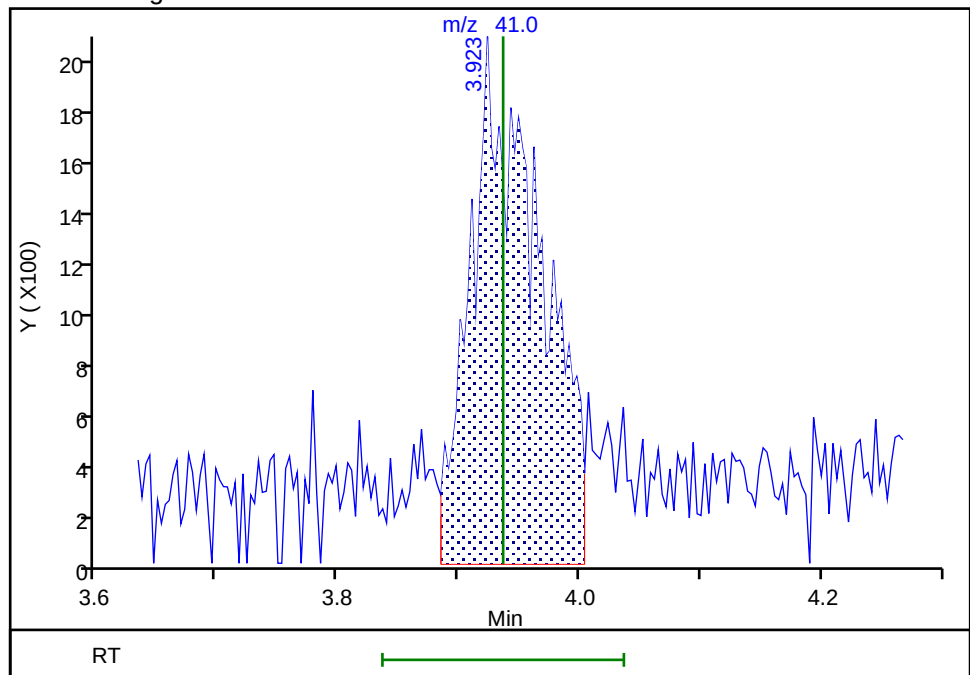
RT: 3.97
Area: 1916
Amount: 0.955243
Amount Units: ug/l

Processing Integration Results



RT: 3.92
Area: 7966
Amount: 0.959163
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 16-Jul-2024 20:45:39 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

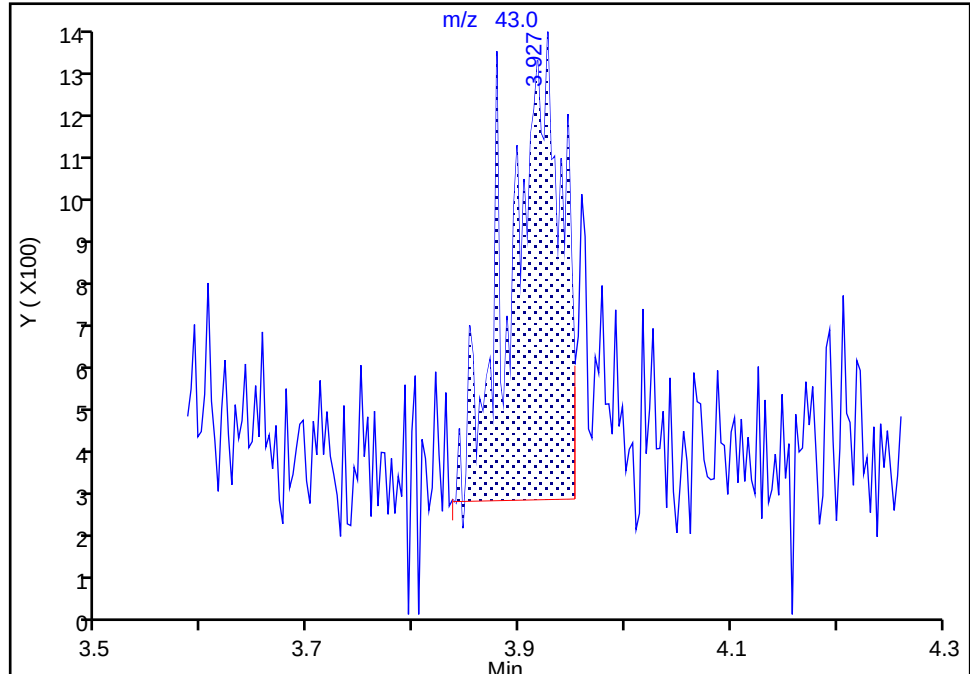
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Injection Date: 15-Jul-2024 17:41:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

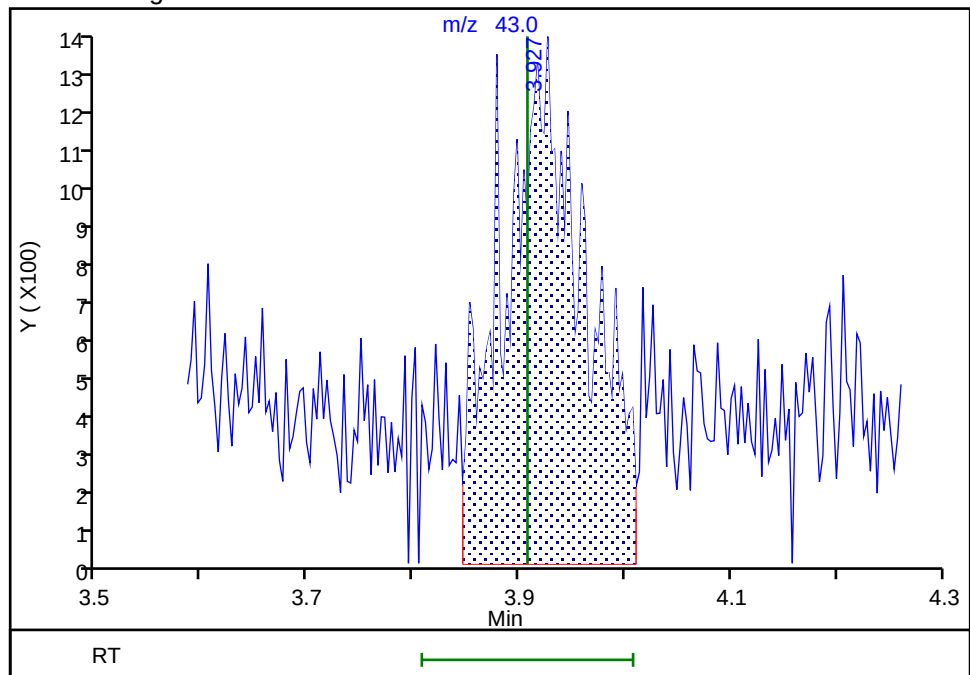
RT: 3.93
Area: 3569
Amount: 0.776692
Amount Units: ug/l

Processing Integration Results



RT: 3.93
Area: 7095
Amount: 1.488623
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 16-Jul-2024 20:13:49 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC

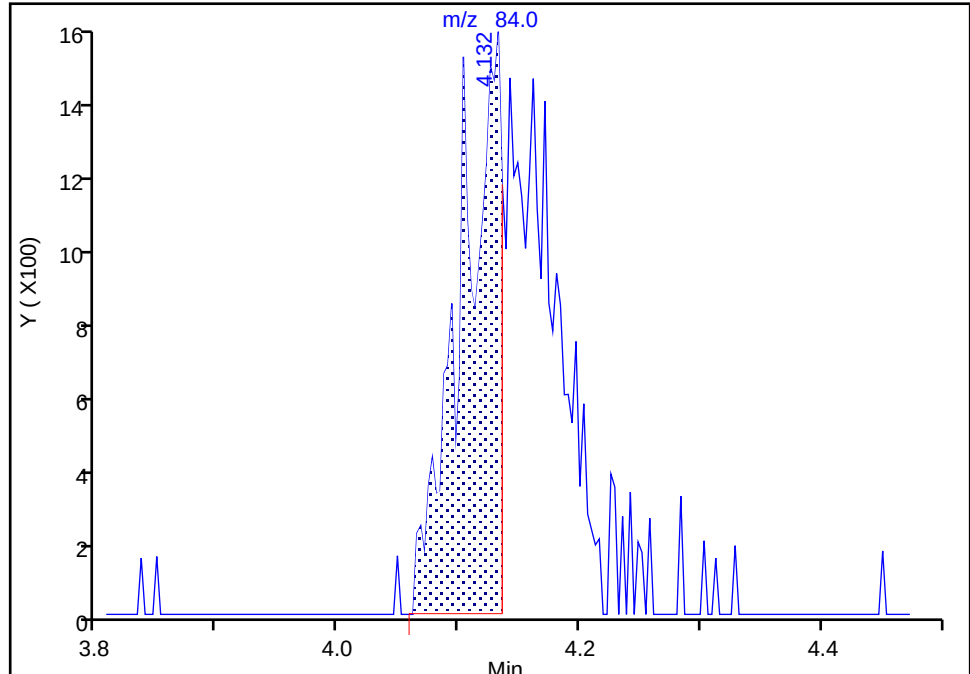
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Injection Date: 15-Jul-2024 17:41:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

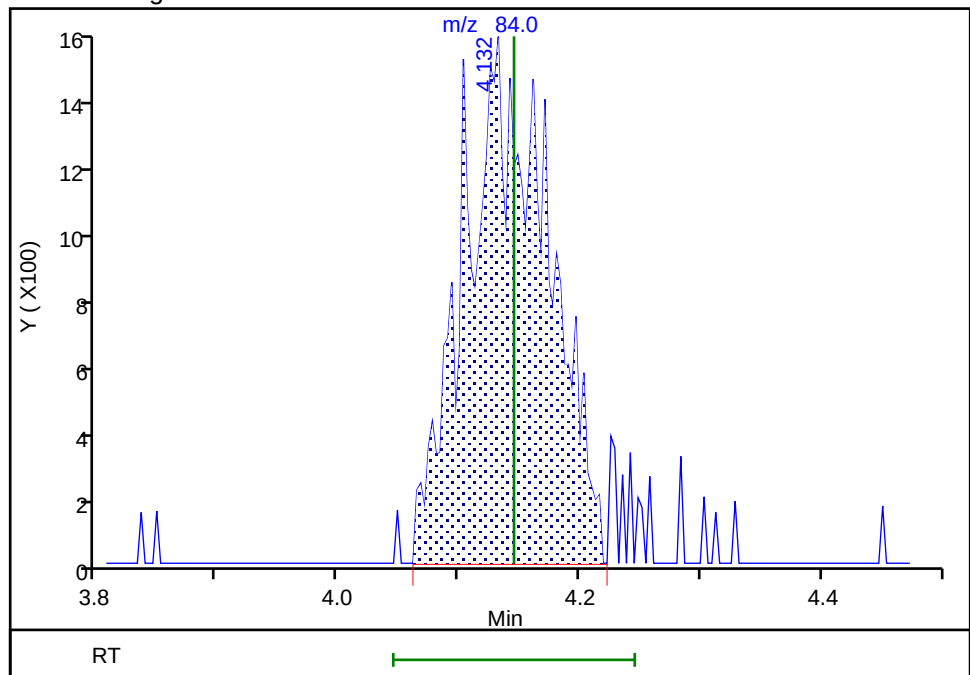
RT: 4.13
Area: 3509
Amount: 0.572535
Amount Units: ug/l

Processing Integration Results



RT: 4.13
Area: 7426
Amount: 1.029716
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:49:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

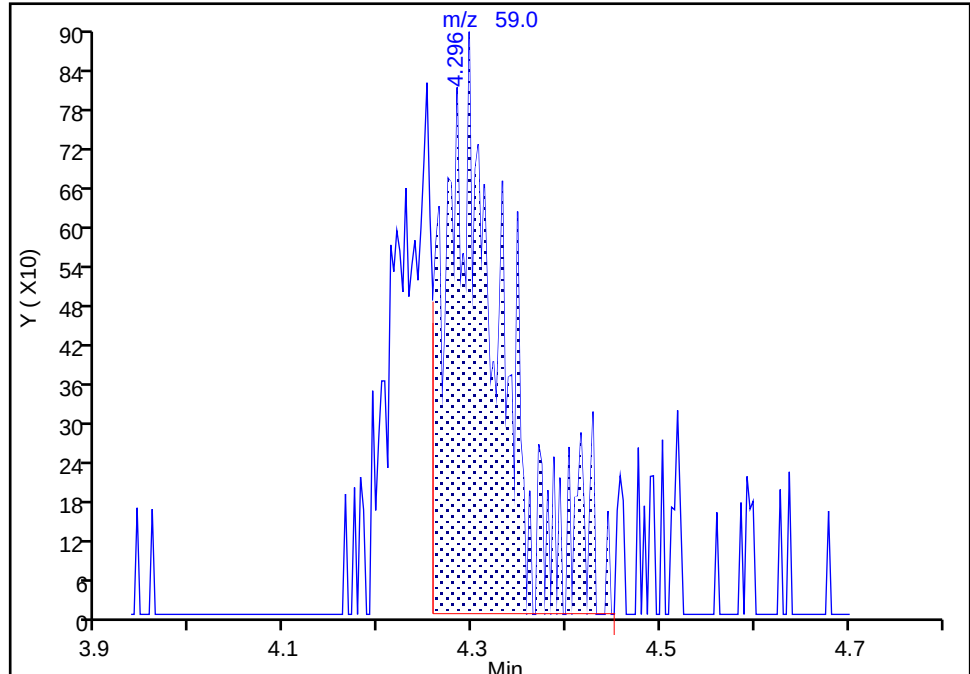
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Injection Date: 15-Jul-2024 17:41:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

29 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

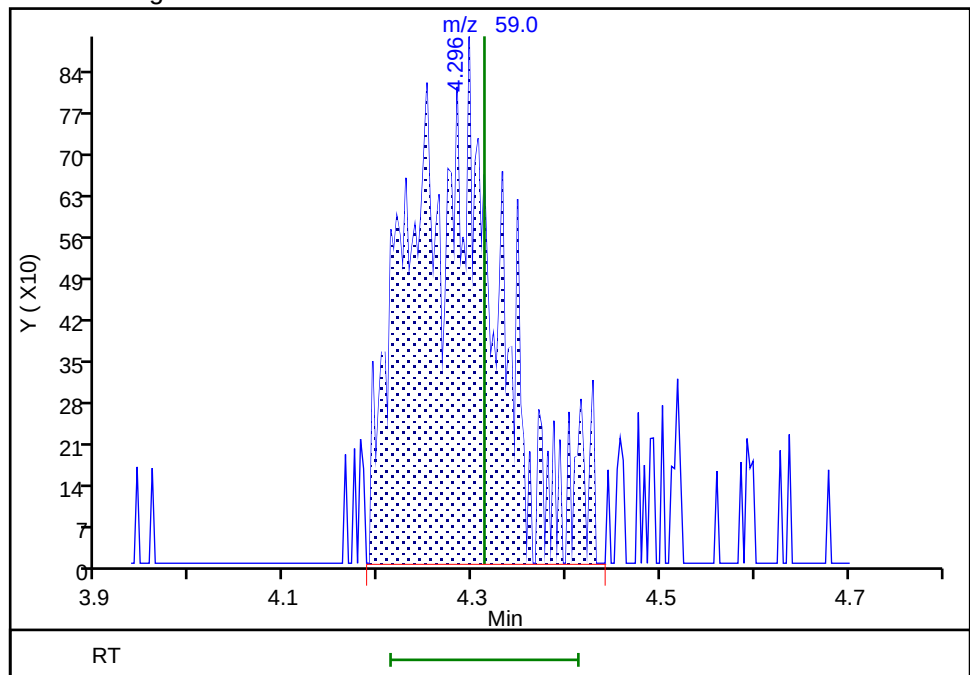
RT: 4.30
Area: 3569
Amount: 3.493757
Amount Units: ug/l

Processing Integration Results



RT: 4.30
Area: 5448
Amount: 5.390548
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:49:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

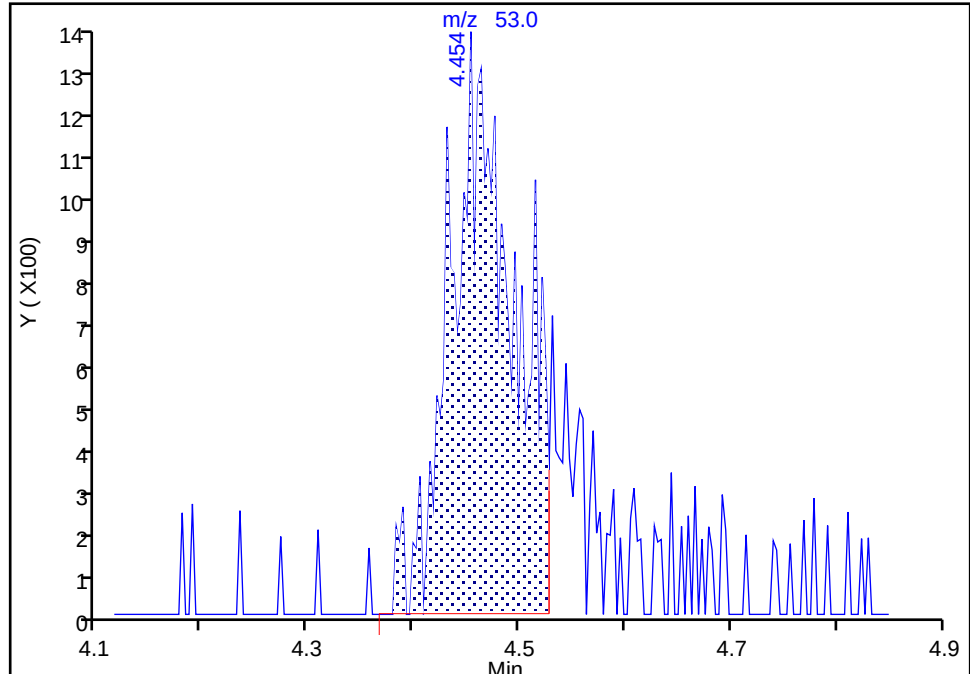
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Injection Date: 15-Jul-2024 17:41:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

30 Acrylonitrile, CAS: 107-13-1

Signal: 1

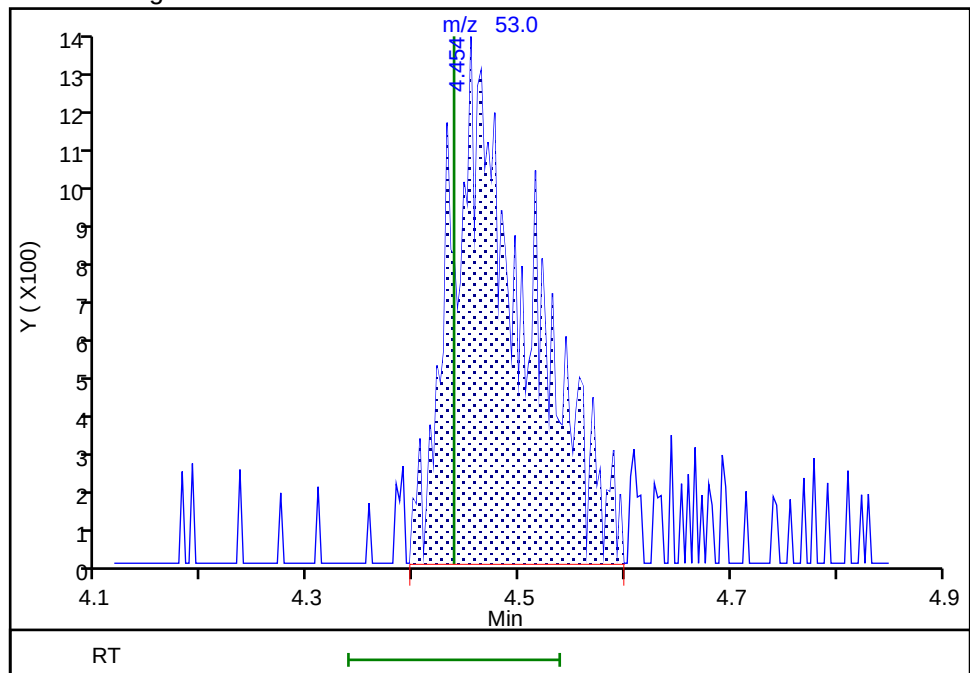
RT: 4.45
Area: 5588
Amount: 2.090116
Amount Units: ug/l

Processing Integration Results



RT: 4.45
Area: 6701
Amount: 2.448179
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:49:12 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

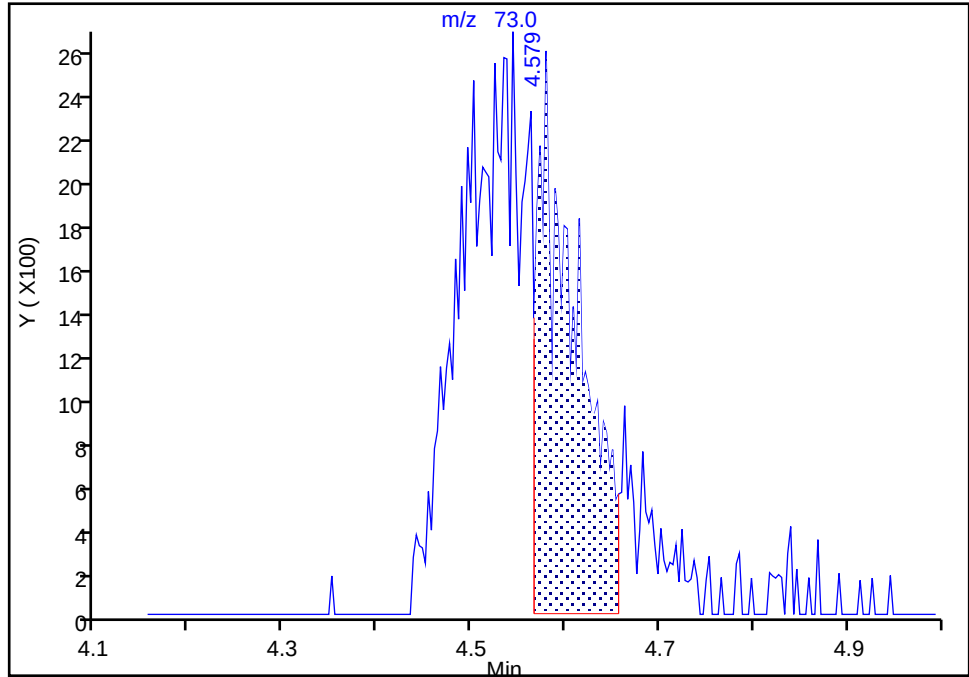
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Injection Date: 15-Jul-2024 17:41:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

32 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

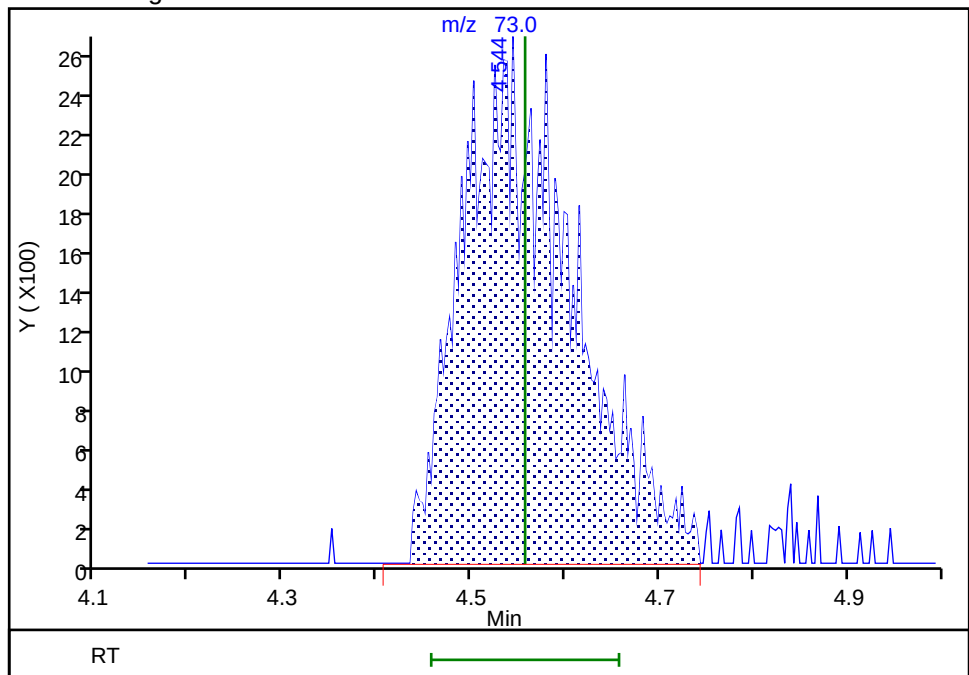
RT: 4.58
Area: 7274
Amount: 1.286269
Amount Units: ug/l

Processing Integration Results



RT: 4.54
Area: 21163
Amount: 0.973746
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:49:19 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

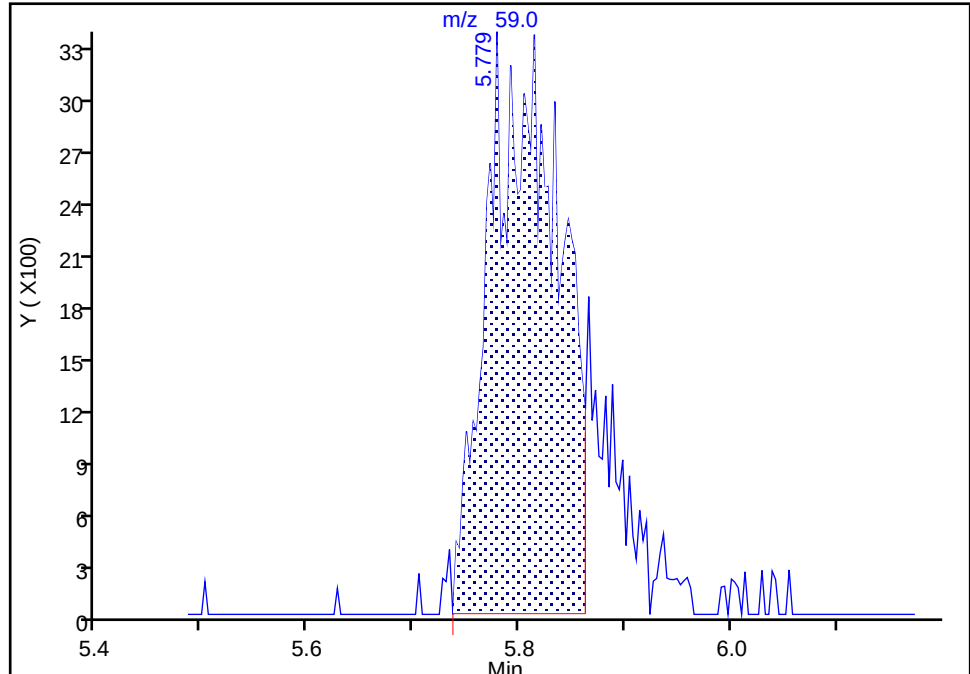
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Injection Date: 15-Jul-2024 17:41:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

39 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

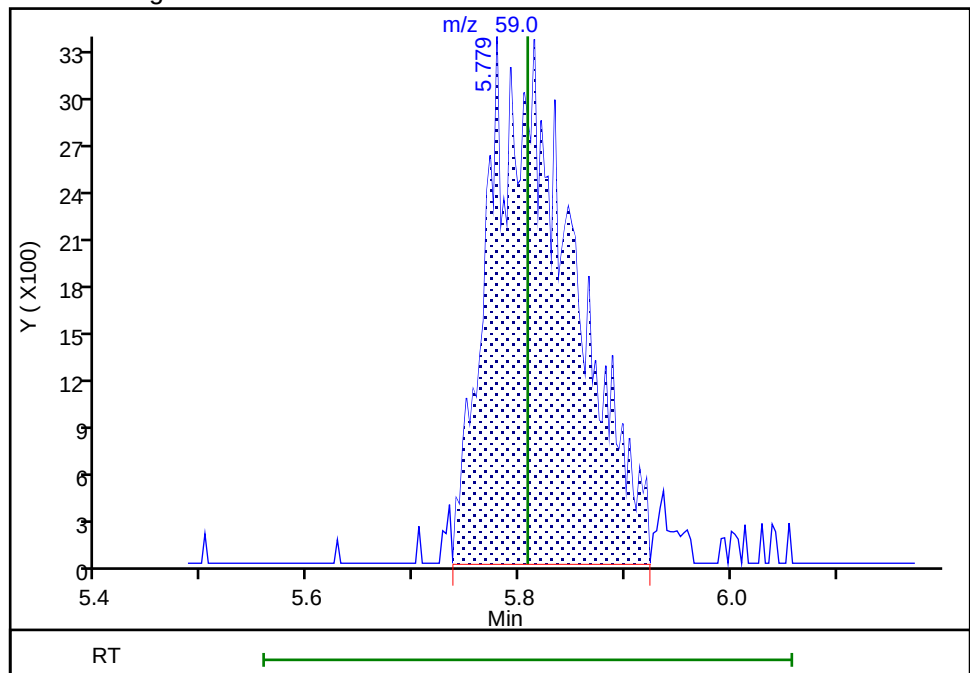
RT: 5.78
Area: 15263
Amount: 0.787205
Amount Units: ug/l

Processing Integration Results



RT: 5.78
Area: 18204
Amount: 0.918976
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:49:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

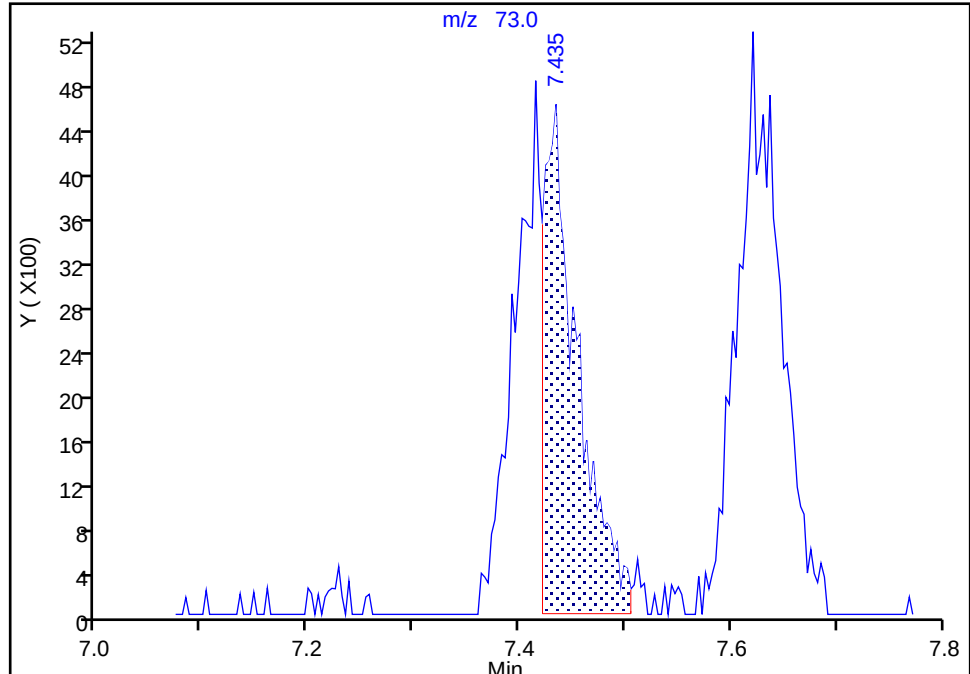
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Injection Date: 15-Jul-2024 17:41:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

61 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

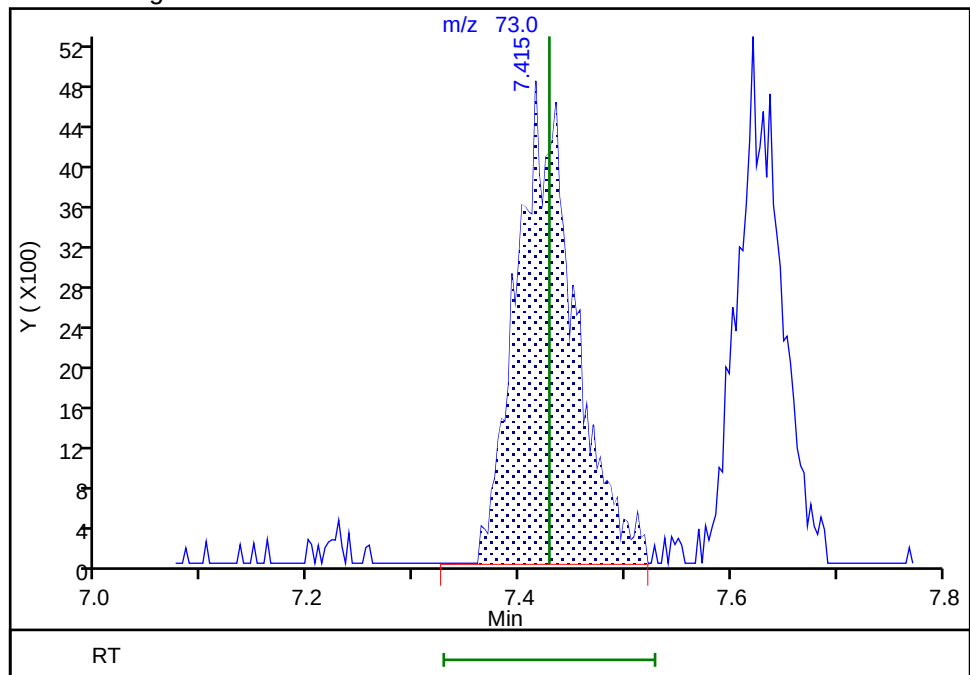
RT: 7.43
Area: 10158
Amount: 1.001775
Amount Units: ug/l

Processing Integration Results



RT: 7.42
Area: 18068
Amount: 0.933425
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:49:51 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

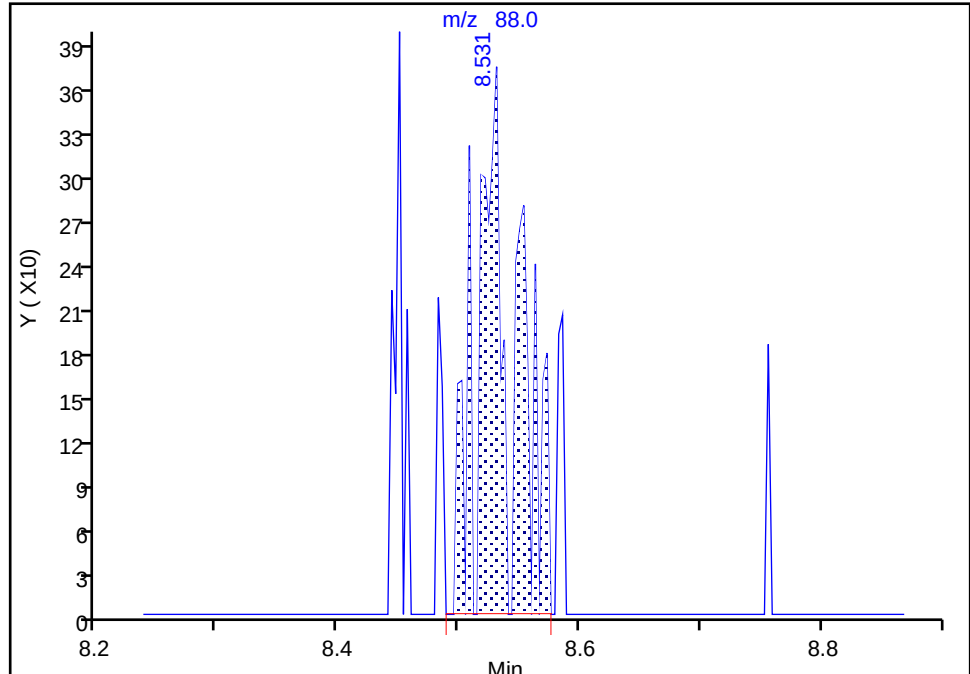
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X11.D
Injection Date: 15-Jul-2024 17:41:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

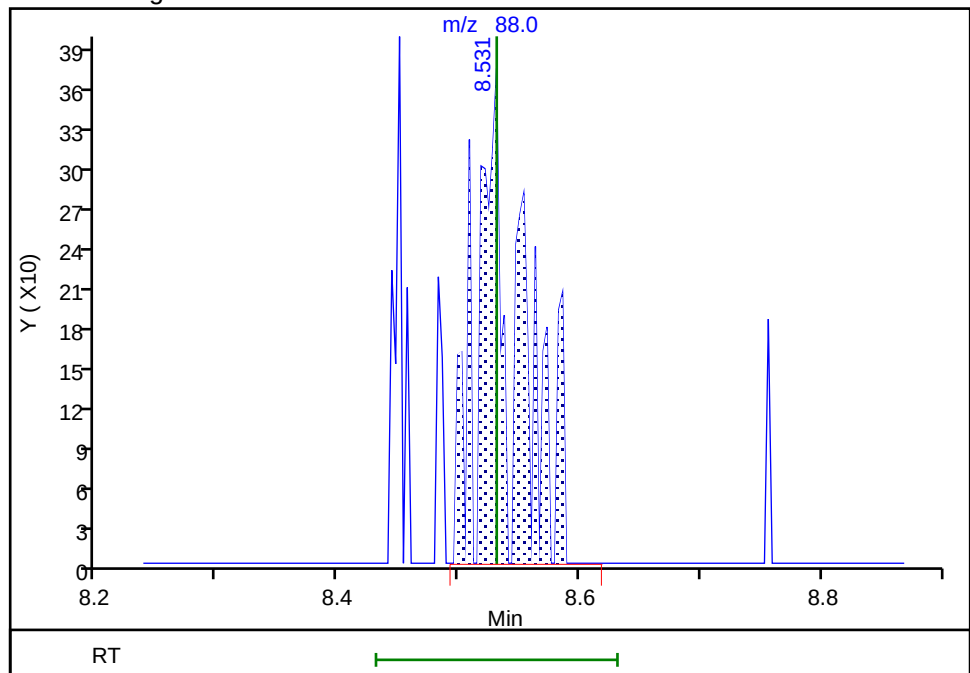
RT: 8.53
Area: 786
Amount: 8.977939
Amount Units: ug/l

Processing Integration Results



RT: 8.53
Area: 863
Amount: 11.247922
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:50:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

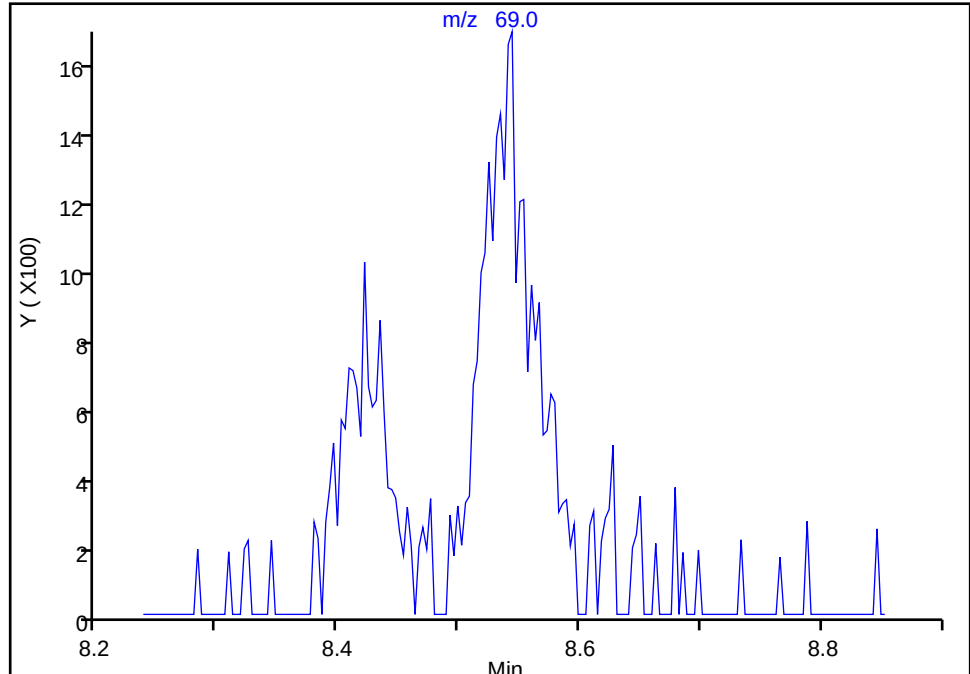
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Injection Date: 15-Jul-2024 17:41:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

71 Methyl methacrylate, CAS: 80-62-6

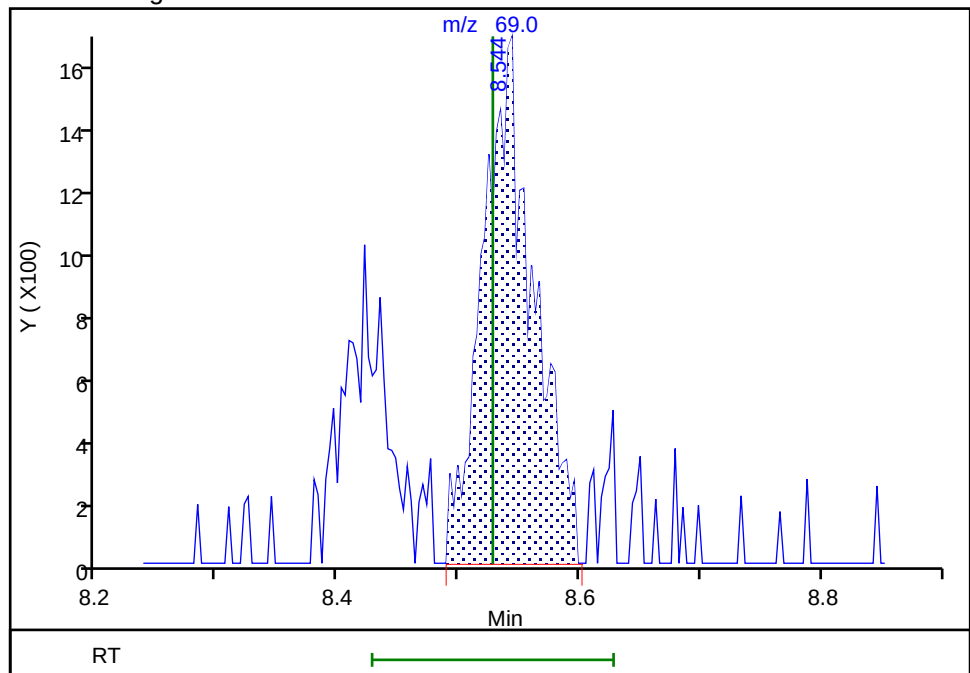
Signal: 1

Not Detected
Expected RT: 8.53

Processing Integration Results



Manual Integration Results



RT: 8.54
Area: 4633
Amount: 0.979727
Amount Units: ug/l

Reviewer: DVW2, 16-Jul-2024 07:49:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

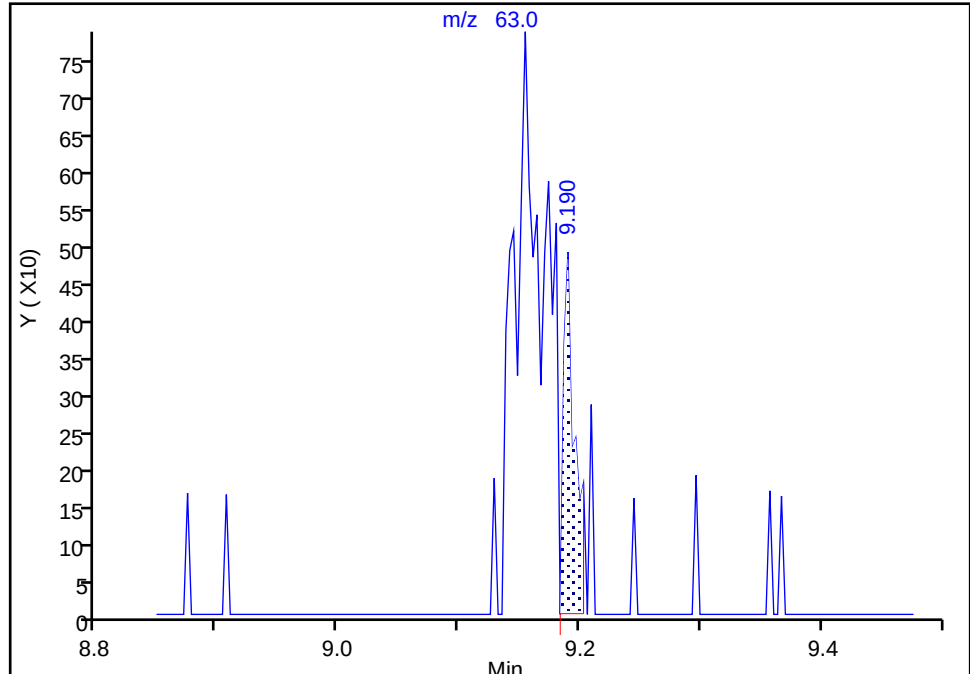
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X11.D
Injection Date: 15-Jul-2024 17:41:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

77 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

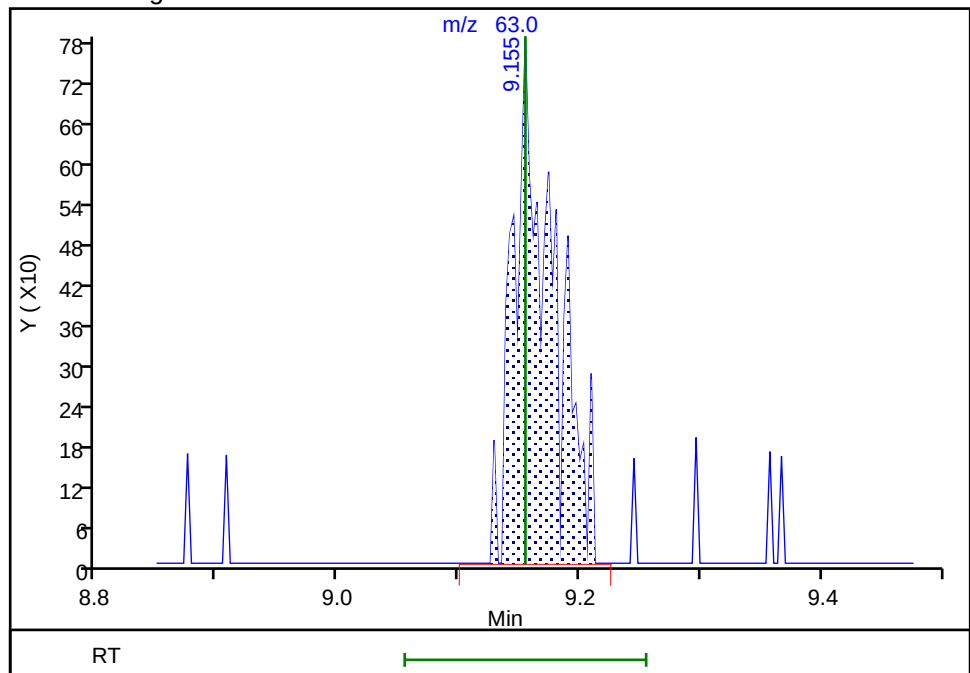
RT: 9.19
Area: 316
Amount: 0.986370
Amount Units: ug/l

Processing Integration Results



RT: 9.15
Area: 1746
Amount: 0.836752
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:50:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

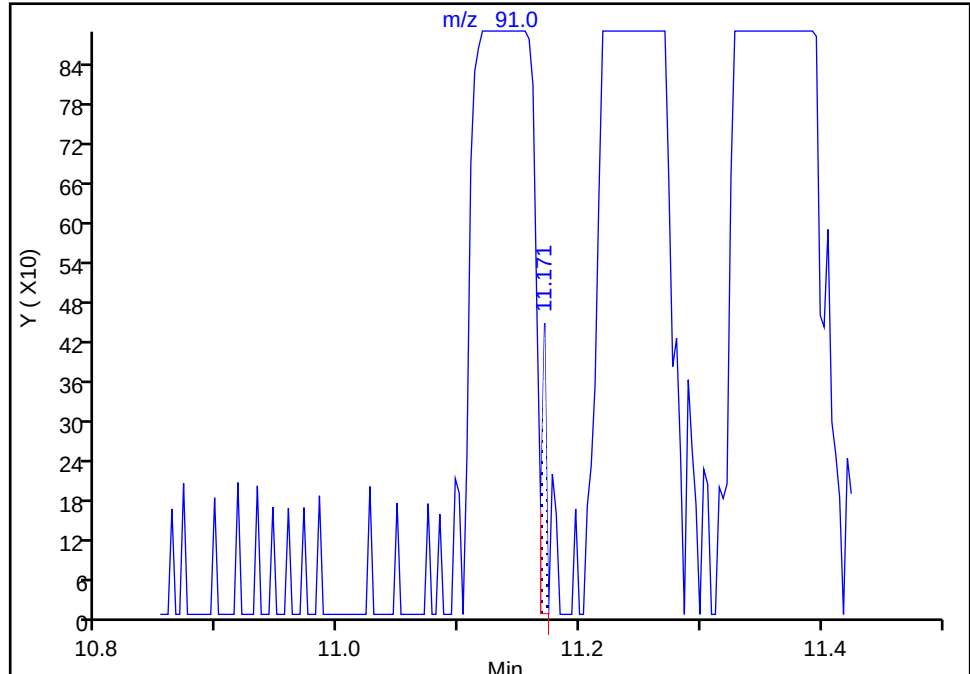
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Injection Date: 15-Jul-2024 17:41:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

132 1-Chlorohexane, CAS: 544-10-5

Signal: 1

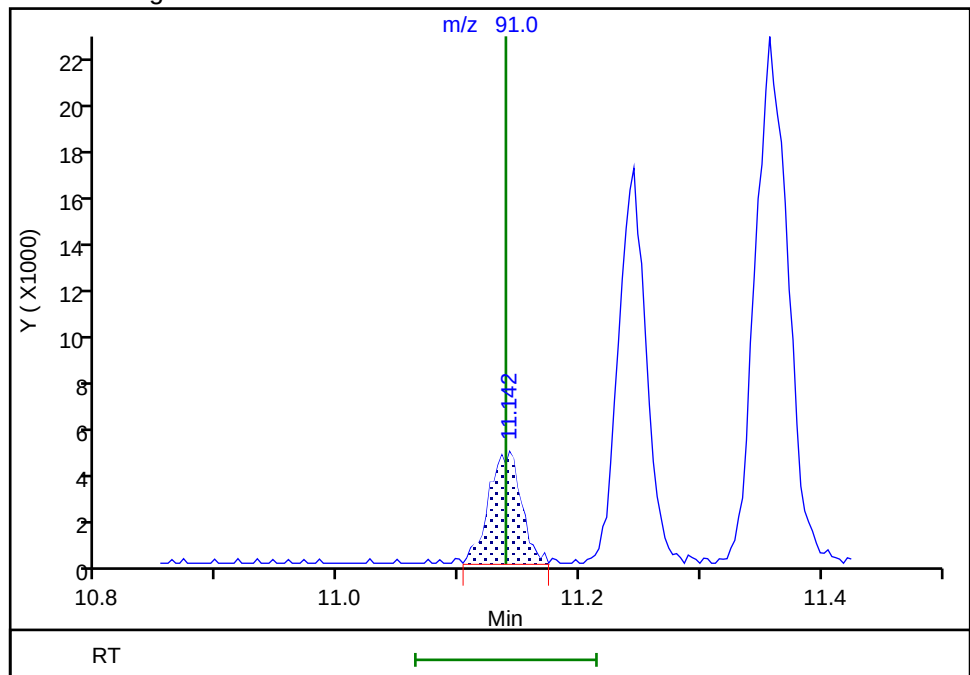
RT: 11.17
Area: 116
Amount: 0.021282
Amount Units: ug/l

Processing Integration Results



RT: 11.14
Area: 8937
Amount: 1.138079
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:50:27 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

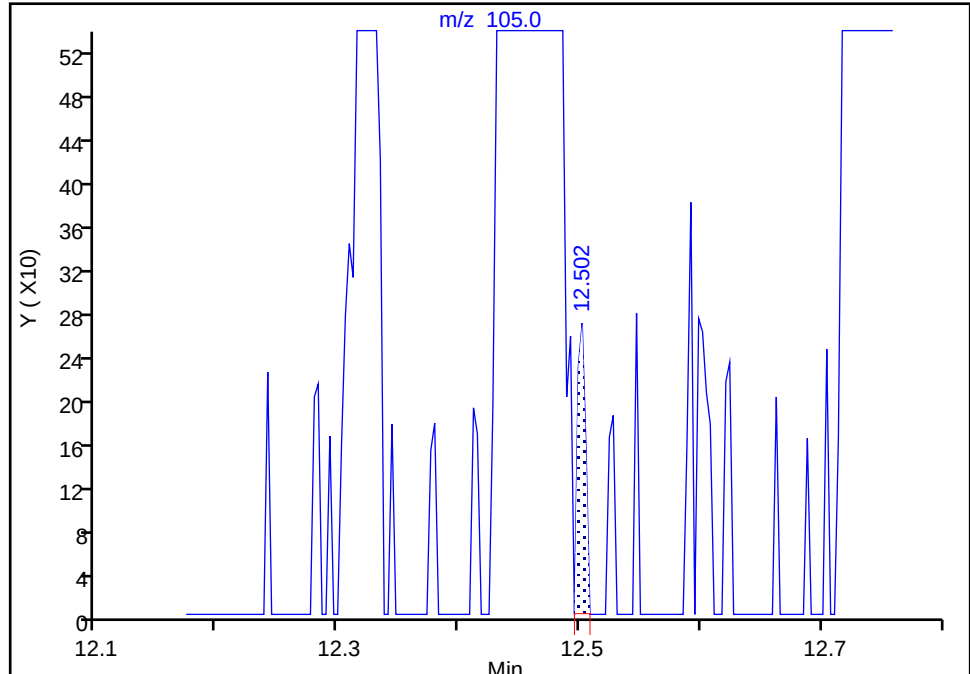
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X11.D
Injection Date: 15-Jul-2024 17:41:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

151 1,3,5-Trimethylbenzene, CAS: 108-67-8
Signal: 1

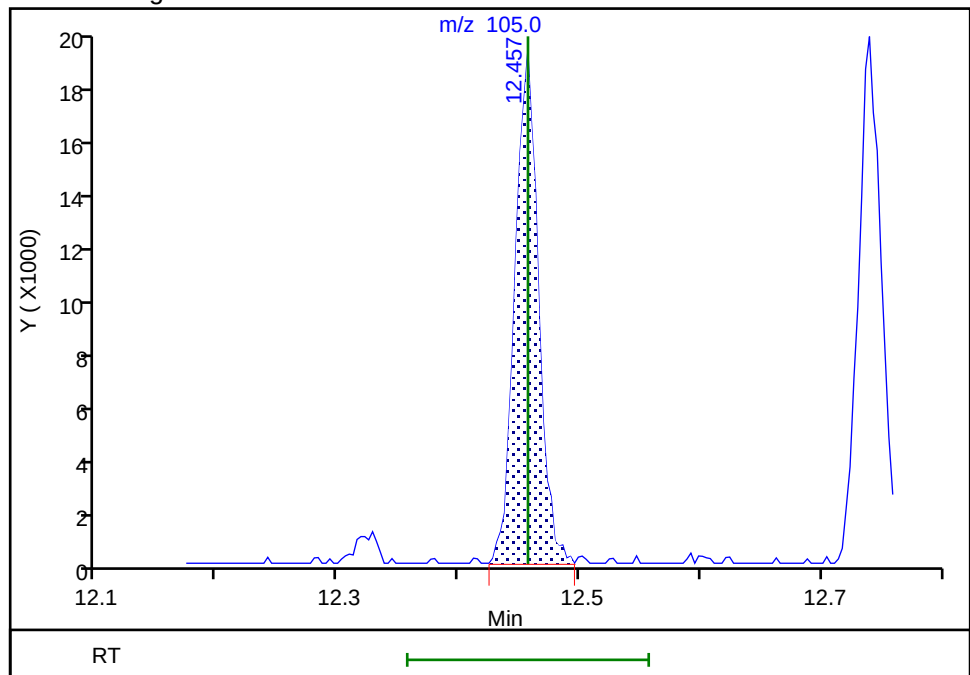
RT: 12.50
Area: 125
Amount: 0.974852
Amount Units: ug/l

Processing Integration Results



RT: 12.46
Area: 25775
Amount: 0.866464
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:50:43 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X12.D
 Lims ID: IC v4
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 15-Jul-2024 18:04:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119345-013
 Misc. Info.: IC V4
 Operator ID: knk41612 Instrument ID: 9915
 Sublist: chrom-MSVoa_9915a*sub91
 Method: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 16-Jul-2024 20:47:30 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1659

First Level Reviewer: DVW2

Date: 16-Jul-2024 07:52:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.956	1.946	0.010	98	42151	4.00	4.22	
4 Chloromethane	50	2.142	2.142	0.000	98	47228	4.00	4.25	
6 Butadiene	39	2.251	2.245	0.006	93	48861	4.00	4.59	
5 Vinyl chloride	62	2.258	2.255	0.003	96	46008	4.00	4.23	
8 Bromomethane	94	2.589	2.589	0.000	92	37114	4.00	4.40	
9 Chloroethane	64	2.656	2.653	0.003	99	25439	4.00	4.47	
10 Dichlorofluoromethane	67	2.878	2.898	-0.020	97	74802	4.00	4.27	
11 Trichlorofluoromethane	101	2.962	2.975	-0.013	93	55158	4.00	4.21	
12 Pentane	43	2.981	2.991	-0.010	86	35702	4.00	3.94	
13 Ethyl ether	59	3.171	3.171	0.000	84	16508	4.00	3.86	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.283	3.284	-0.001	84	34561	4.00	4.26	
16 Acrolein	56	3.338	3.332	0.006	98	61942	40.1	37.7	
18 Acetone	58	3.502	3.489	0.013	44	5969	8.00	7.68	M
17 1,1-Dichloroethene	96	3.515	3.512	0.003	95	23536	4.00	3.92	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.537	3.528	0.009	93	27081	4.00	3.93	
20 Isopropyl alcohol	45	3.763	3.666	0.097	25	11236	20.0	20.2	
21 Iodomethane	142	3.692	3.705	-0.013	100	50563	4.00	4.01	
22 Carbon disulfide	76	3.804	3.805	-0.001	98	87117	4.00	3.96	
24 Methyl acetate	43	3.914	3.907	0.007	85	17301	4.00	3.60	
25 3-Chloro-1-propene	41	3.939	3.936	0.003	94	35179	4.00	4.20	
27 Methylene Chloride	84	4.148	4.145	0.003	47	29512	4.00	4.06	
* 28 t-Butyl alcohol-d10 (IS)	65	4.174	4.181	-0.007	33	286610	250.0	250.0	
29 2-Methyl-2-propanol	59	4.328	4.313	0.015	68	20539	20.0	19.9	
30 Acrylonitrile	53	4.463	4.438	0.025	96	27323	10.0	9.91	
31 trans-1,2-Dichloroethene	96	4.531	4.528	0.003	93	23521	4.00	4.19	
32 Methyl tert-butyl ether	73	4.525	4.557	-0.032	90	84003	4.00	3.84	
34 Hexane	57	4.975	4.972	0.003	95	29083	4.00	4.21	
35 1,1-Dichloroethane	63	5.187	5.187	0.000	86	37308	4.00	4.10	
37 Isopropyl ether	45	5.248	5.271	-0.023	93	73873	4.00	3.94	
38 2-Chloro-1,3-butadiene	53	5.306	5.300	0.006	90	33329	4.00	4.23	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.798	5.808	-0.010	99	78074	4.00	3.91	
40 2-Butanone (MEK)	43	6.010	6.004	0.006	91	26153	8.00	7.32	
42 cis-1,2-Dichloroethene	96	6.026	6.030	-0.004	79	25580	4.00	4.16	
43 2,2-Dichloropropane	77	6.049	6.058	-0.009	81	41407	4.00	3.99	
45 Propionitrile	54	6.094	6.081	0.013	94	22406	20.0	19.4	
46 Methyl acrylate	55	6.155	6.139	0.016	32	23418	4.00	3.35	a
S 41 1,2-Dichloroethene, Total	100				0			8.34	
47 Methacrylonitrile	67	6.309	6.296	0.013	90	27770	10.0	9.56	
48 Chlorobromomethane	128	6.357	6.354	0.003	91	12638	4.00	3.91	
49 Tetrahydrofuran	71	6.380	6.380	0.000	95	20985	20.0	20.4	
50 Chloroform	83	6.518	6.515	0.003	93	41042	4.00	4.03	
\$ 51 Dibromofluoromethane (Surr)	113	6.730	6.730	0.000	93	283336	50.0	49.5	
52 1,1,1-Trichloroethane	97	6.753	6.759	-0.006	97	40806	4.00	3.91	
53 Cyclohexane	56	6.859	6.862	-0.003	88	45274	4.00	3.91	
55 1,1-Dichloropropene	75	6.955	6.959	-0.004	92	30113	4.00	4.11	
54 Carbon tetrachloride	117	6.968	6.965	0.003	82	32318	4.00	3.88	
56 Isobutyl alcohol	41	7.148	7.126	0.022	42	22521	50.0	61.6	
\$ 57 1,2-Dichloroethane-d4 (Surr)	102	7.187	7.187	0.000	90	68533	50.0	49.5	
58 Benzene	78	7.219	7.222	-0.003	91	90534	4.00	3.99	
59 1,2-Dichloroethane	62	7.290	7.293	-0.003	97	30779	4.00	4.02	
61 Tert-amyl methyl ether	73	7.425	7.428	-0.003	98	69850	4.00	3.58	
* 62 Fluorobenzene (IS)	96	7.631	7.628	0.003	99	1142427	50.0	50.0	
63 n-Heptane	43	7.653	7.653	0.000	90	28369	4.00	3.86	
65 n-Butanol	56	8.036	8.010	0.026	76	11151	50.0	45.0	
66 Trichloroethene	95	8.113	8.110	0.003	96	24186	4.00	4.11	
67 Ethyl acrylate	55	8.238	8.226	0.012	98	26451	4.00	3.31	a
68 Methylcyclohexane	83	8.431	8.425	0.006	90	42824	4.00	3.71	
69 1,2-Dichloropropane	63	8.431	8.438	-0.007	79	22416	4.00	3.99	
70 2-ethoxy-2-methyl butane	87	8.457	8.460	-0.003	92	34320	4.00	3.71	
71 Methyl methacrylate	69	8.541	8.528	0.012	94	18095	4.00	3.80	a
72 1,4-Dioxane	88	8.537	8.531	0.006	34	3358	50.0	42.8	M
73 Dibromomethane	93	8.550	8.547	0.003	94	16514	4.00	4.02	
75 Dichlorobromomethane	83	8.785	8.788	-0.003	99	27104	4.00	3.81	
76 2-Nitropropane	41	9.065	9.052	0.013	100	37147	20.0	18.6	
77 2-Chloroethyl vinyl ether	63	9.161	9.155	0.006	89	7586	4.00	3.61	
78 cis-1,3-Dichloropropene	75	9.344	9.345	0.000	94	34311	4.00	3.90	
79 4-Methyl-2-pentanone (MIBK)	43	9.524	9.521	0.003	97	62785	8.00	7.46	
\$ 80 Toluene-d8 (Surr)	98	9.659	9.660	-0.001	94	1136377	50.0	50.1	
81 Toluene	92	9.737	9.737	0.000	98	56405	4.00	4.00	
120 trans-1,3-Dichloropropene	75	9.997	9.994	0.003	94	29562	4.00	3.79	
S 119 1,3-Dichloropropene, Total	100				0			7.69	
121 Ethyl methacrylate	69	10.065	10.062	0.003	88	34677	4.00	3.93	
122 1,1,2-Trichloroethane	97	10.200	10.200	0.000	91	20306	4.00	3.89	
123 Tetrachloroethene	166	10.293	10.293	0.000	95	24563	4.00	4.12	
124 1,3-Dichloropropane	76	10.360	10.361	-0.001	92	32267	4.00	3.88	
125 2-Hexanone	43	10.425	10.418	0.007	95	40534	8.00	7.60	
128 Chlorodibromomethane	129	10.576	10.579	-0.003	88	20549	4.00	3.71	
129 Ethylene Dibromide	107	10.688	10.689	0.000	96	22268	4.00	3.97	
* 130 Chlorobenzene-d5 (IS)	117	11.126	11.126	0.000	85	895289	50.0	50.0	
132 1-Chlorohexane	91	11.138	11.139	-0.001	36	32119	4.00	4.11	a
133 Chlorobenzene	112	11.155	11.155	0.000	96	63462	4.00	4.05	
134 1,1,1,2-Tetrachloroethane	131	11.235	11.235	0.000	95	23633	4.00	3.70	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Ethylbenzene	91	11.245	11.242	0.003	99	117020	4.00	4.06	
S 131 Xylenes, Total	106				0			12.1	
136 m-Xylene & p-Xylene	106	11.360	11.357	0.003	99	91649	8.00	8.15	
137 n-Butyl acrylate	55	11.640	11.637	0.003	98	47731	4.00	3.65	a
138 o-Xylene	106	11.685	11.688	-0.003	96	48155	4.00	3.97	
139 Styrene	104	11.704	11.701	0.003	95	73242	4.00	4.00	
140 Bromoform	173	11.859	11.856	0.003	95	15142	4.00	3.72	
142 Isopropylbenzene	105	11.991	11.991	0.000	95	121345	4.00	3.98	
141 Cyclohexanone	55	12.061	12.061	0.000	93	69688	200.0	188.5	
\$ 143 4-Bromofluorobenzene (Surr)	95	12.132	12.132	0.000	90	460250	50.0	51.4	
145 1,1,2,2-Tetrachloroethane	83	12.232	12.232	0.000	97	37773	4.00	3.80	
146 Bromobenzene	156	12.248	12.248	0.000	95	30268	4.00	4.01	
147 trans-1,4-Dichloro-2-butene	53	12.261	12.258	0.003	90	23056	10.0	9.02	
148 1,2,3-Trichloropropane	110	12.277	12.280	-0.003	83	11853	4.00	4.00	
149 N-Propylbenzene	91	12.318	12.319	-0.001	99	148025	4.00	3.99	
150 2-Chlorotoluene	126	12.399	12.396	0.003	97	29625	4.00	3.84	
151 1,3,5-Trimethylbenzene	105	12.454	12.457	-0.003	93	109385	4.00	3.74	
153 4-Chlorotoluene	126	12.489	12.486	0.003	97	29336	4.00	3.96	
154 tert-Butylbenzene	134	12.698	12.698	0.000	93	19282	4.00	3.59	
156 1,2,4-Trimethylbenzene	105	12.740	12.740	0.000	97	113874	4.00	3.84	
157 sec-Butylbenzene	105	12.862	12.862	0.000	94	138830	4.00	3.77	
158 1,3-Dichlorobenzene	146	12.958	12.959	0.000	98	61459	4.00	4.09	
159 4-Isopropyltoluene	119	12.971	12.968	0.003	97	123039	4.00	3.79	
* 160 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	544366	50.0	50.0	
161 1,4-Dichlorobenzene	146	13.032	13.029	0.003	95	62057	4.00	4.06	
162 1,2,3-Trimethylbenzene	105	13.042	13.045	-0.003	99	122228	4.00	3.81	
163 Benzyl chloride	91	13.109	13.106	0.003	98	71167	4.00	3.67	
164 1,3-Diethylbenzene	119	13.171	13.171	0.000	96	74788	4.00	3.93	
165 p-Diethylbenzene	119	13.238	13.241	-0.003	94	79208	4.00	3.98	
166 n-Butylbenzene	92	13.264	13.261	0.003	97	63923	4.00	4.03	
167 1,2-Dichlorobenzene	146	13.290	13.293	-0.003	98	63988	4.00	3.99	
168 o-diethylbenzene	119	13.312	13.312	0.000	95	59573	4.00	3.74	
170 1,2-Dibromo-3-Chloropropane	75	13.830	13.827	0.003	81	9463	4.00	3.64	
171 1,3,5-Trichlorobenzene	180	13.958	13.958	0.000	98	49145	4.00	3.80	
172 1,2,4-Trichlorobenzene	180	14.383	14.383	0.000	95	50640	4.00	3.88	
173 2-Ethylhexyl acrylate	55	14.441	14.441	0.000	82	44205	4.00	3.18	a
174 Hexachlorobutadiene	225	14.466	14.466	0.000	95	17398	4.00	3.63	
175 Naphthalene	128	14.563	14.563	0.000	96	175939	4.00	3.90	
176 1,2,3-Trichlorobenzene	180	14.704	14.704	0.000	96	53223	4.00	3.90	
177 2-Methylnaphthalene	142	15.322	15.319	0.003	92	96671	4.00	3.63	
S 188 Total Diethylbenzene	1				0			11.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00192	Amount Added: 4.00	Units: uL	
MSV_CCV_CYC_00009	Amount Added: 32.00	Units: uL	
MSV_CCV_VOC#3_00188	Amount Added: 3.20	Units: uL	
MSV_CCV_2CEVE_00184	Amount Added: 4.00	Units: uL	
MSV_CCV_GASES_00819	Amount Added: 2.00	Units: uL	
MSV_CCV_EE_00007	Amount Added: 4.00	Units: uL	
MSV_CCV_OH_Sp_00012	Amount Added: 4.00	Units: uL	
MSV_HP23_ISSS_00014	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 16-Jul-2024 20:47:30

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X12.D

Injection Date: 15-Jul-2024 18:04:30

Instrument ID: 9915

Operator ID: knk41612

Lims ID: IC v4

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

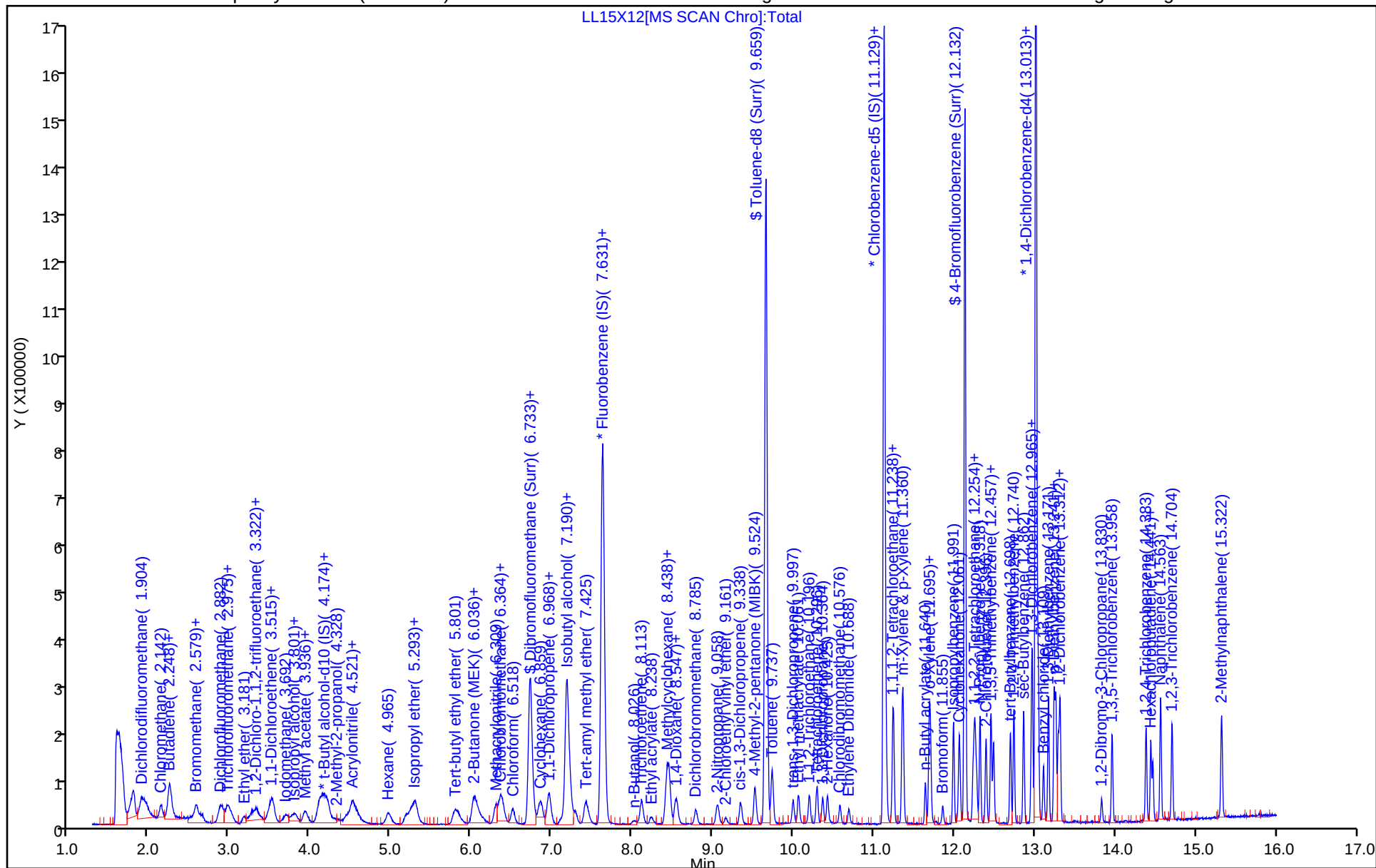
ALS Bottle#: 12

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

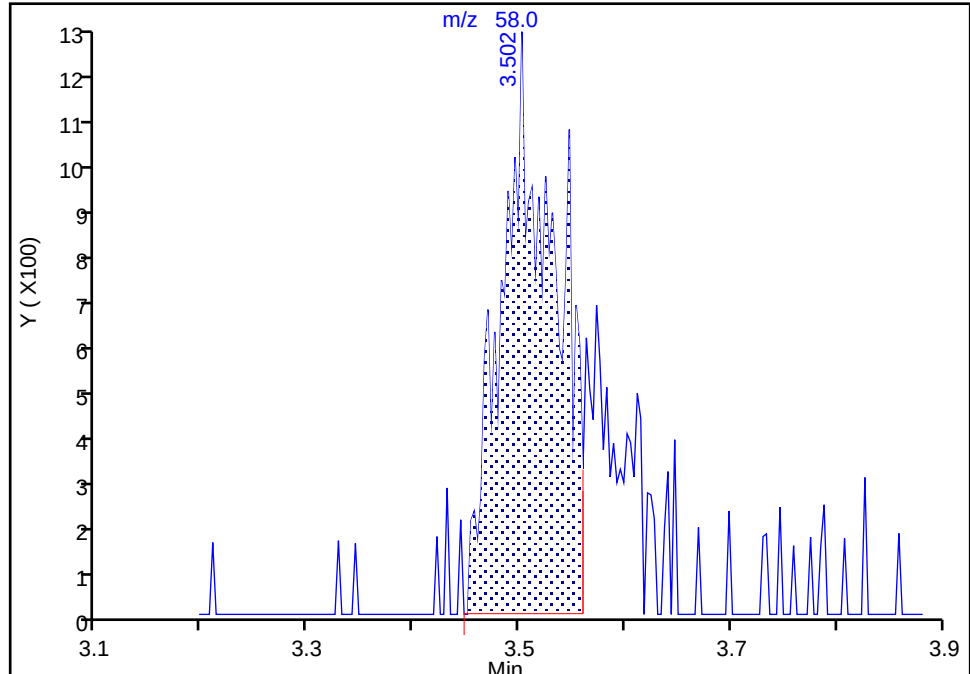
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Injection Date: 15-Jul-2024 18:04:30 Instrument ID: 9915
Lims ID: IC v4
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

18 Acetone, CAS: 67-64-1

Signal: 1

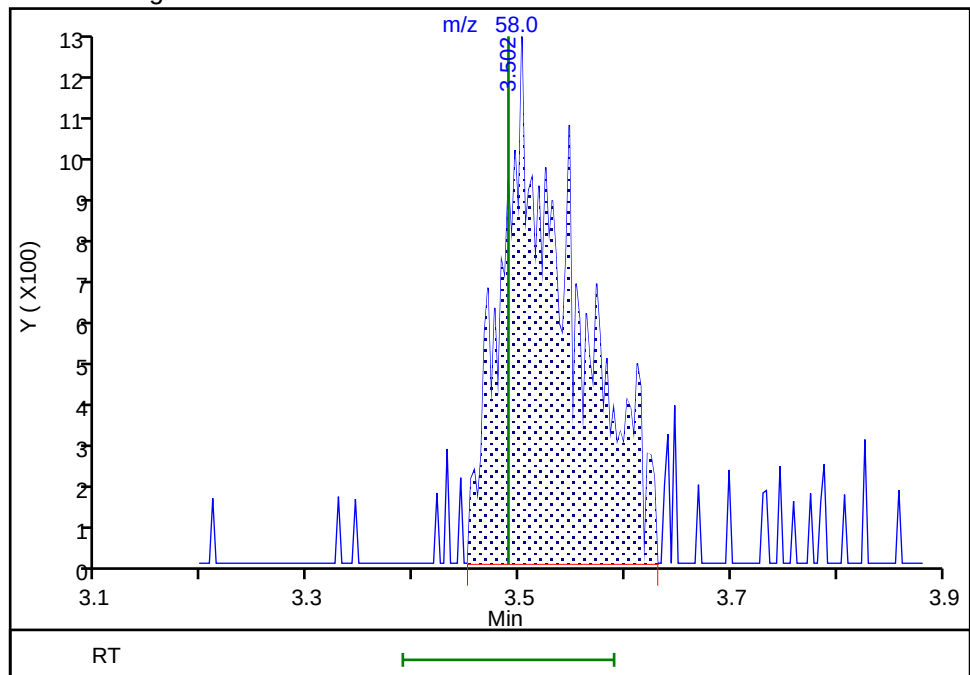
RT: 3.50
Area: 4438
Amount: 5.914795
Amount Units: ug/l

Processing Integration Results



RT: 3.50
Area: 5969
Amount: 7.675580
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:51:17 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

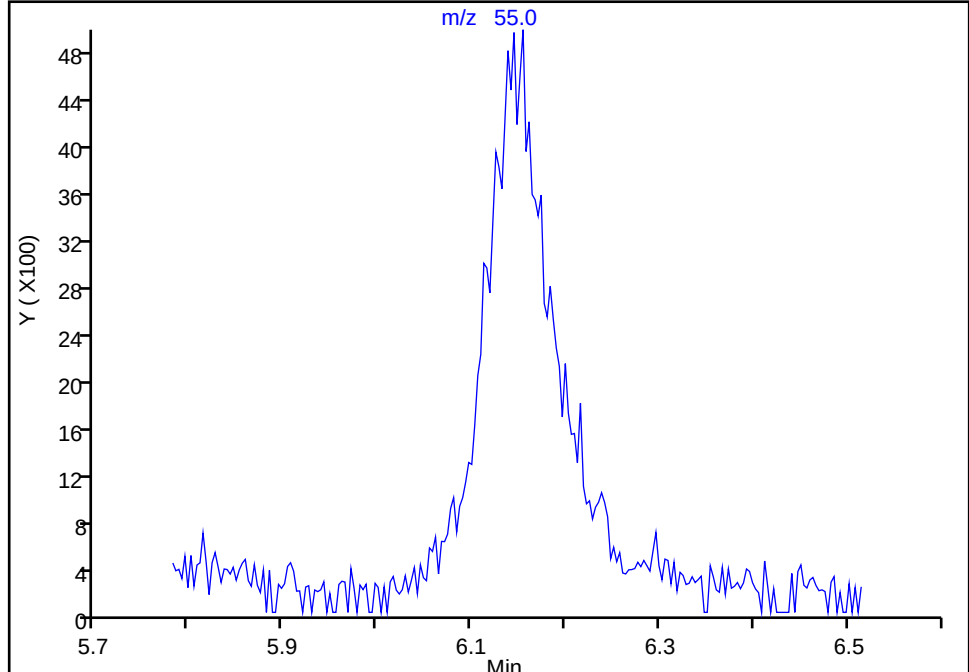
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Injection Date: 15-Jul-2024 18:04:30 Instrument ID: 9915
Lims ID: IC v4
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

46 Methyl acrylate, CAS: 96-33-3

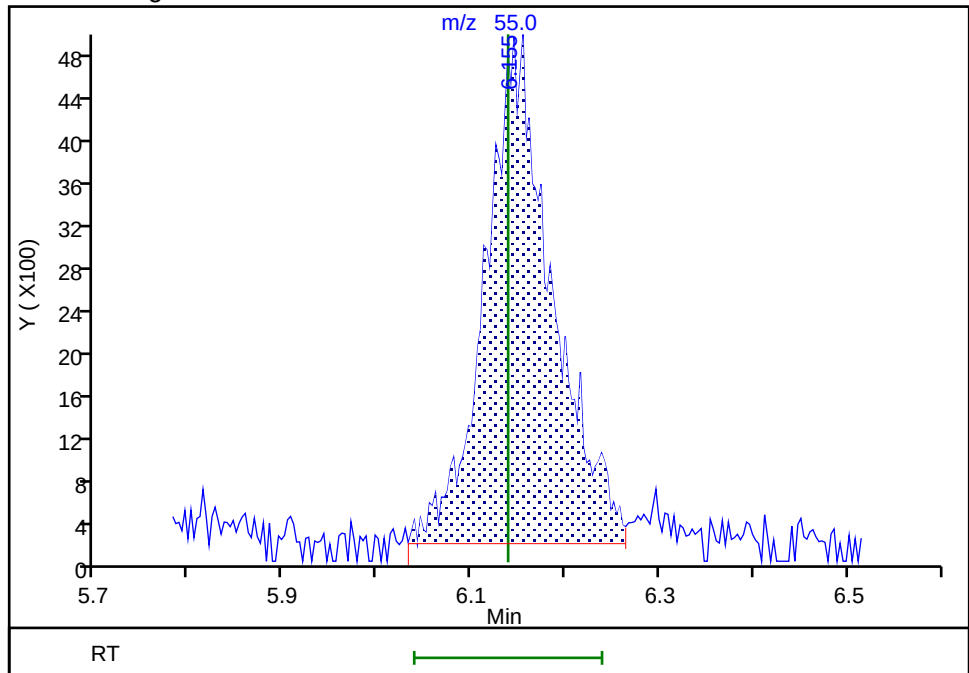
Signal: 1

Not Detected
Expected RT: 6.14

Processing Integration Results



Manual Integration Results



RT: 6.15
Area: 23418
Amount: 3.346449
Amount Units: ug/l

Reviewer: DVW2, 16-Jul-2024 08:30:33 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

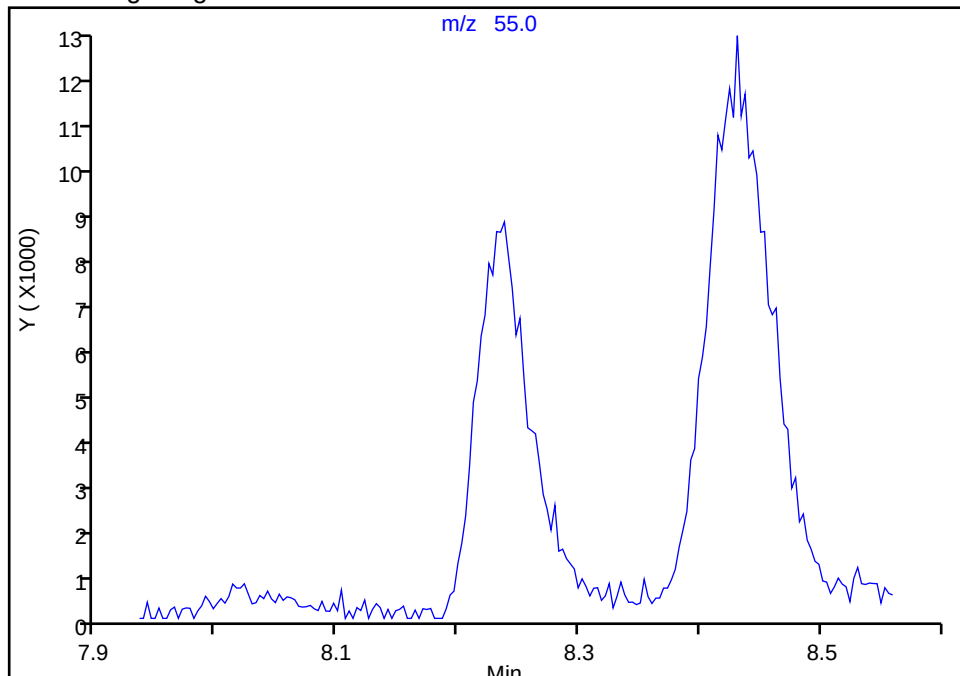
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X12.D
Injection Date: 15-Jul-2024 18:04:30 Instrument ID: 9915
Lims ID: IC v4
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

67 Ethyl acrylate, CAS: 140-88-5

Signal: 1

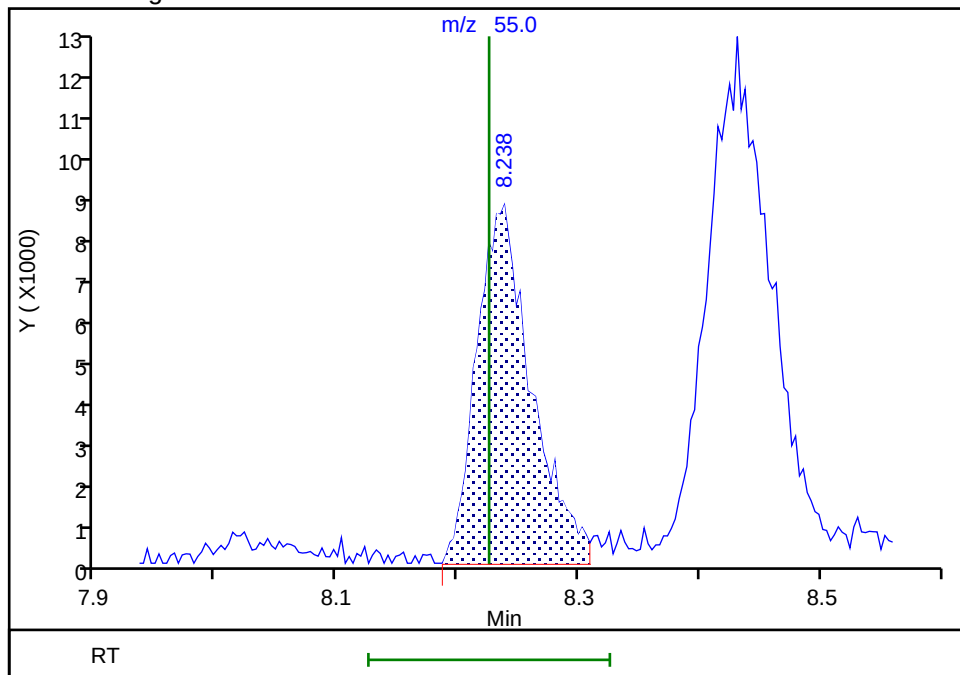
Not Detected
Expected RT: 8.23

Processing Integration Results



RT: 8.24
Area: 26451
Amount: 3.313221
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:30:39 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

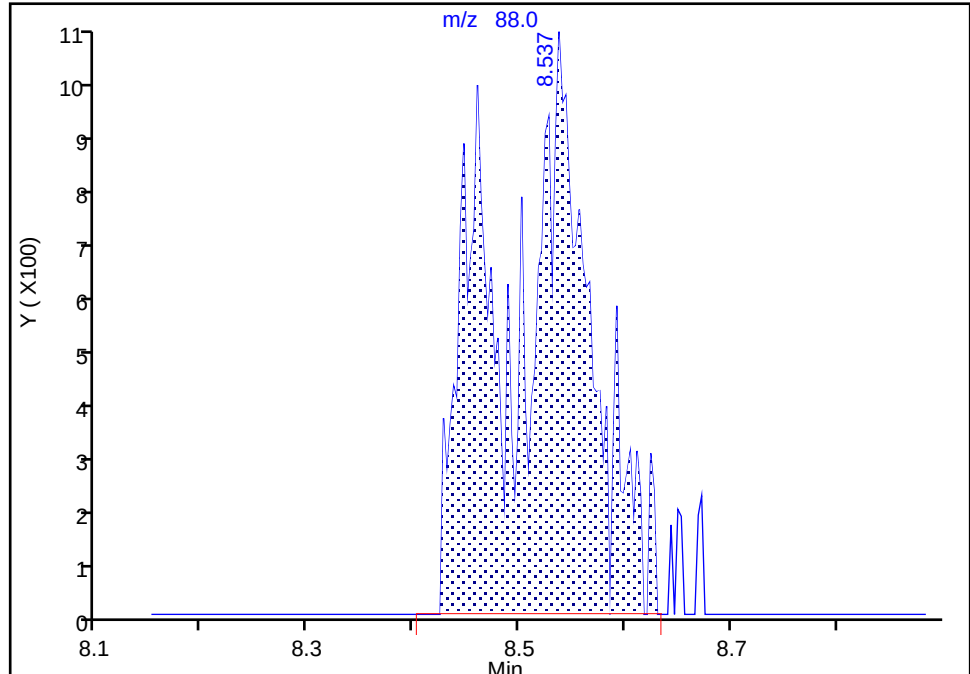
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X12.D
Injection Date: 15-Jul-2024 18:04:30 Instrument ID: 9915
Lims ID: IC v4
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

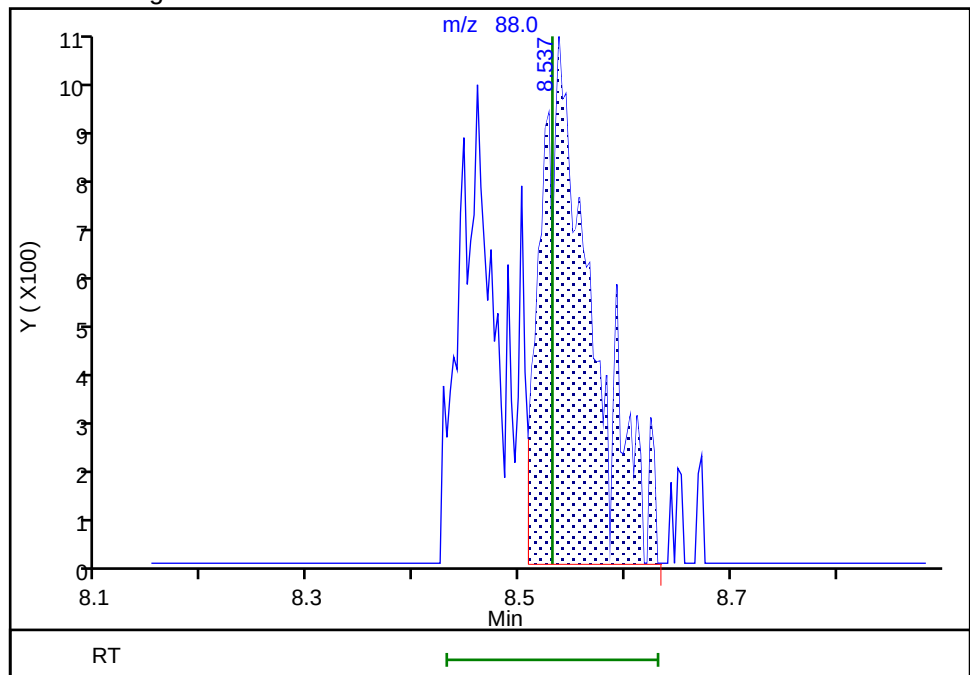
RT: 8.54
Area: 5727
Amount: 63.346654
Amount Units: ug/l

Processing Integration Results



RT: 8.54
Area: 3358
Amount: 42.808319
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:51:45 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

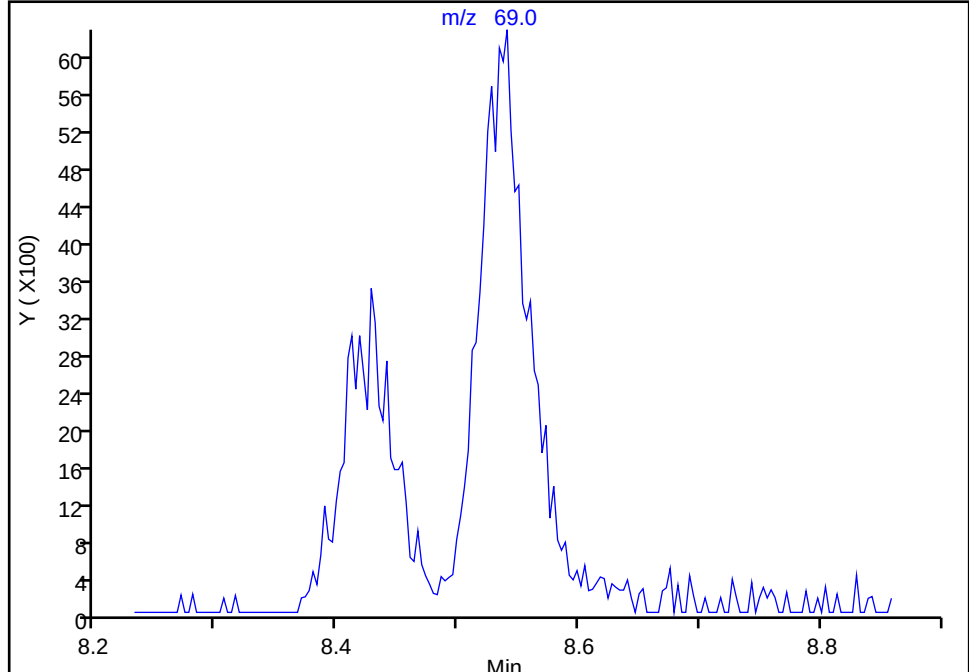
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X12.D
Injection Date: 15-Jul-2024 18:04:30 Instrument ID: 9915
Lims ID: IC v4
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

71 Methyl methacrylate, CAS: 80-62-6

Signal: 1

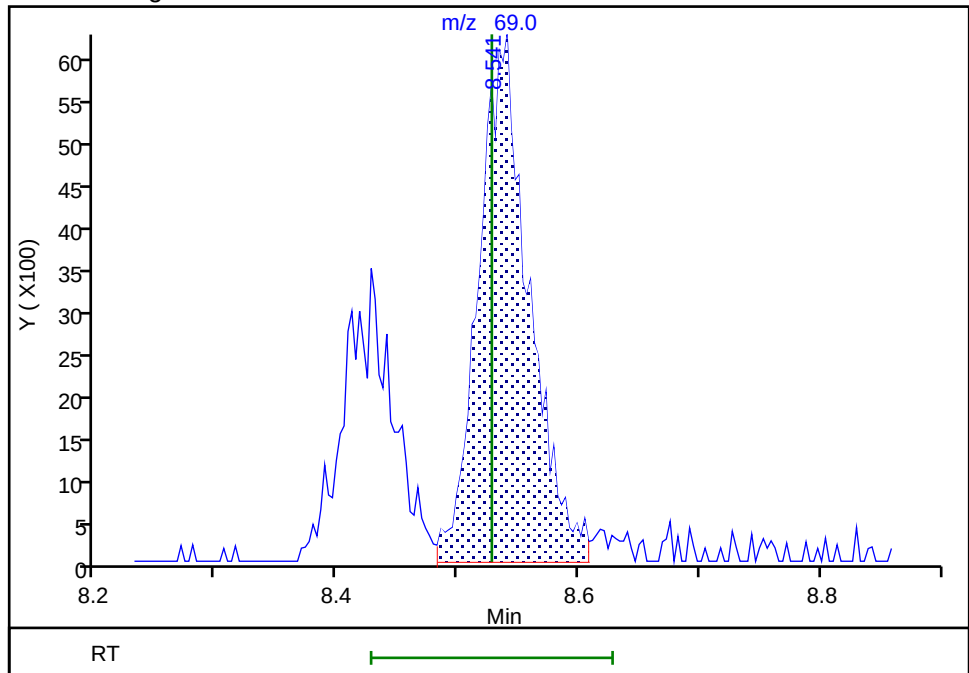
Not Detected
Expected RT: 8.53

Processing Integration Results



RT: 8.54
Area: 18095
Amount: 3.798413
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:51:38 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

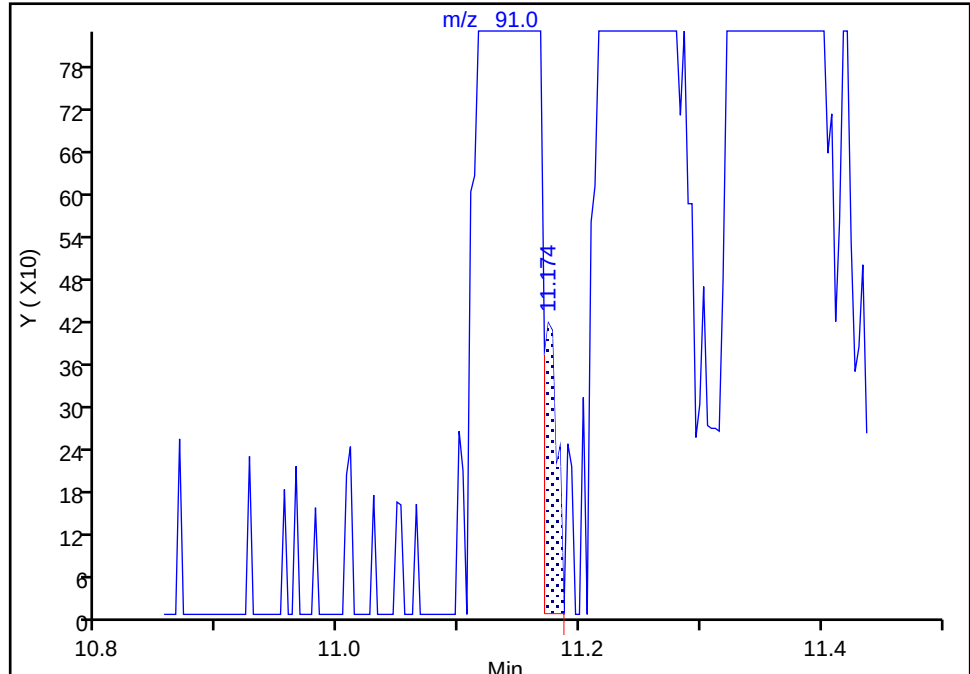
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Injection Date: 15-Jul-2024 18:04:30 Instrument ID: 9915
Lims ID: IC v4
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

132 1-Chlorohexane, CAS: 544-10-5

Signal: 1

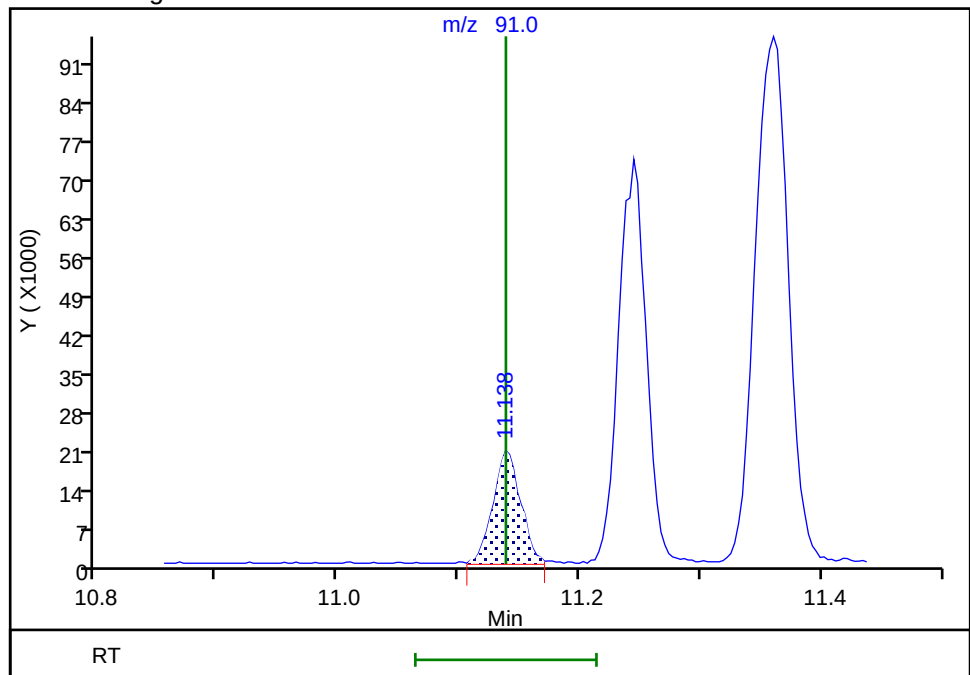
RT: 11.17
Area: 315
Amount: 0.047192
Amount Units: ug/l

Processing Integration Results



RT: 11.14
Area: 32119
Amount: 4.112151
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:51:54 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

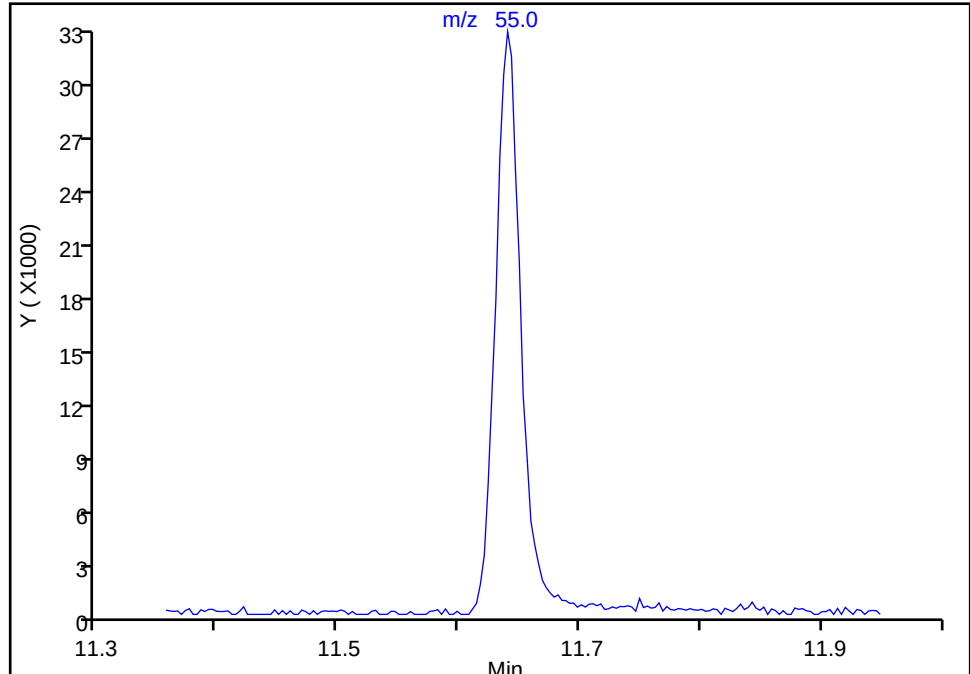
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Injection Date: 15-Jul-2024 18:04:30 Instrument ID: 9915
Lims ID: IC v4
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

137 n-Butyl acrylate, CAS: 141-32-2

Signal: 1

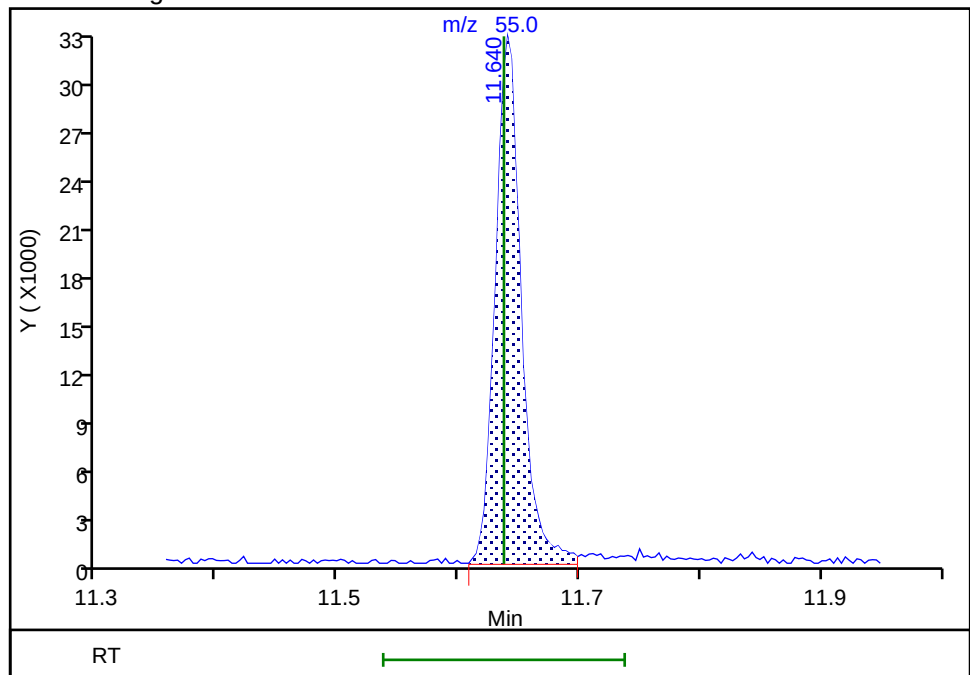
Not Detected
Expected RT: 11.64

Processing Integration Results



RT: 11.64
Area: 47731
Amount: 3.654215
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:30:42 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

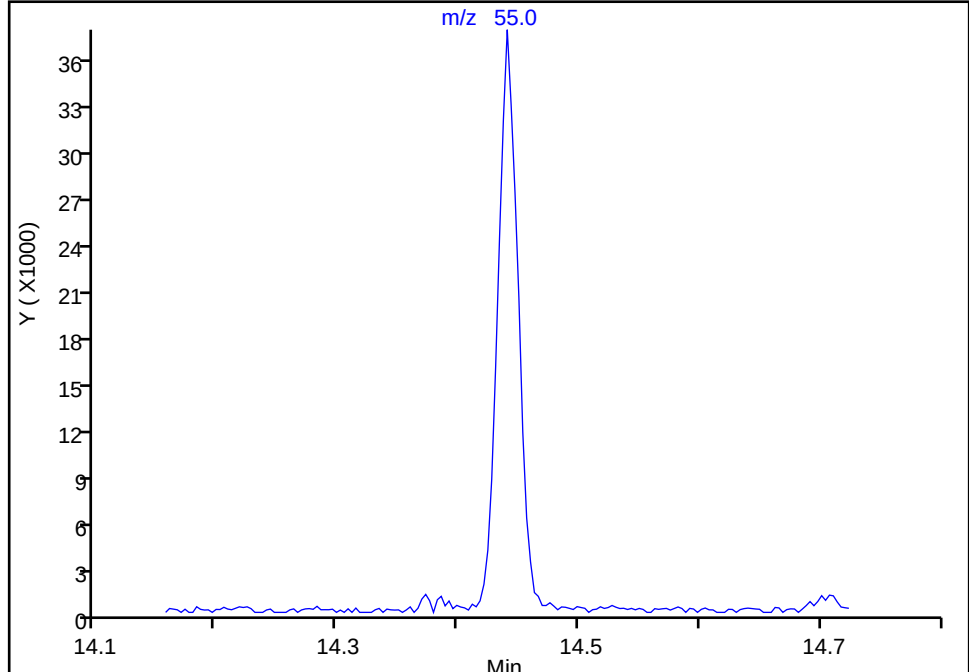
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X12.D
Injection Date: 15-Jul-2024 18:04:30 Instrument ID: 9915
Lims ID: IC v4
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

173 2-Ethylhexyl acrylate, CAS: 103-11-7

Signal: 1

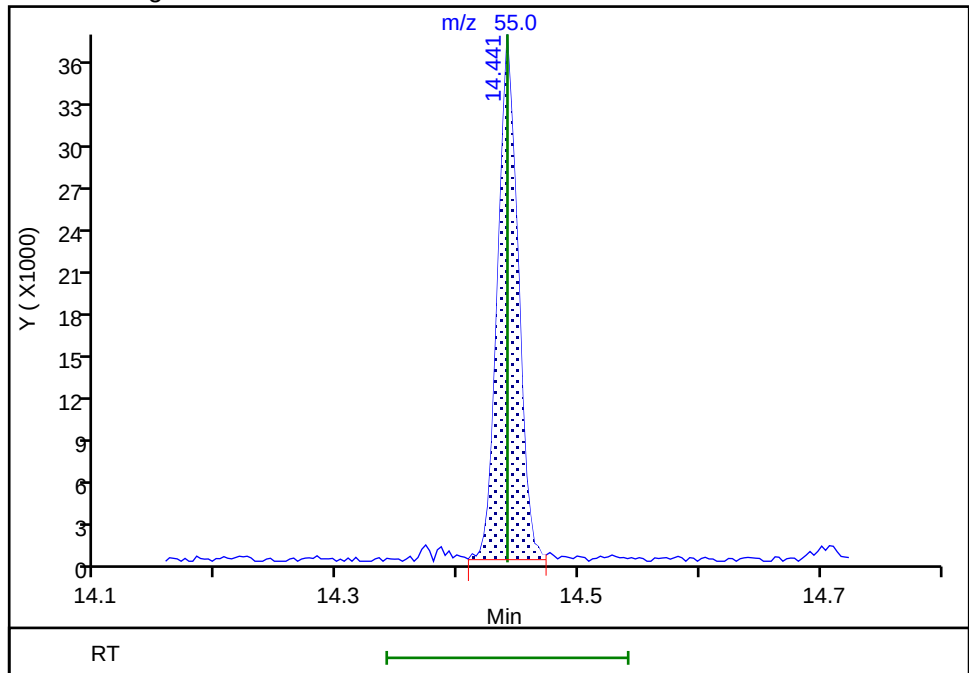
Not Detected
Expected RT: 14.44

Processing Integration Results



RT: 14.44
Area: 44205
Amount: 3.180871
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:30:48 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X13.D
 Lims ID: IC v10
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 15-Jul-2024 18:26:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119345-014
 Misc. Info.: IC V10
 Operator ID: knk41612 Instrument ID: 9915
 Sublist: chrom-MSVoa_9915a*sub91
 Method: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 16-Jul-2024 20:47:34 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1659

First Level Reviewer: DVW2

Date: 16-Jul-2024 07:53:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.933	1.946	-0.013	98	86769	10.0	8.86	
4 Chloromethane	50	2.126	2.142	-0.016	99	94784	10.0	8.69	
6 Butadiene	39	2.232	2.245	-0.013	94	89498	10.0	8.56	
5 Vinyl chloride	62	2.239	2.255	-0.016	97	97276	10.0	9.12	
8 Bromomethane	94	2.573	2.589	-0.016	91	75465	10.0	9.11	
9 Chloroethane	64	2.641	2.653	-0.013	99	50037	10.0	8.95	
10 Dichlorofluoromethane	67	2.888	2.898	-0.010	96	155489	10.0	9.04	
11 Trichlorofluoromethane	101	2.965	2.975	-0.010	95	114033	10.0	8.88	
12 Pentane	43	2.962	2.991	-0.029	95	89647	10.0	10.1	
13 Ethyl ether	59	3.161	3.171	-0.010	89	42851	10.0	10.2	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.271	3.284	-0.013	94	71112	10.0	8.94	
16 Acrolein	56	3.319	3.332	-0.013	99	157709	100.2	97.4	
18 Acetone	58	3.493	3.489	0.004	92	17244	20.0	22.5	
17 1,1-Dichloroethene	96	3.493	3.512	-0.019	94	61745	10.0	10.5	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.522	3.528	-0.006	92	71844	10.0	10.6	
20 Isopropyl alcohol	45	3.653	3.666	-0.013	27	29377	50.0	53.8	M
21 Iodomethane	142	3.692	3.705	-0.013	99	128067	10.0	10.4	
22 Carbon disulfide	76	3.792	3.805	-0.013	99	221732	10.0	10.3	
24 Methyl acetate	43	3.894	3.907	-0.013	96	51178	10.0	10.9	
25 3-Chloro-1-propene	41	3.923	3.936	-0.013	90	83631	10.0	10.2	
27 Methylene Chloride	84	4.126	4.145	-0.019	93	72793	10.0	10.2	M
* 28 t-Butyl alcohol-d10 (IS)	65	4.171	4.181	-0.010	95	282130	250.0	250.0	
29 2-Methyl-2-propanol	59	4.277	4.313	-0.036	84	56224	50.0	55.3	
30 Acrylonitrile	53	4.435	4.438	-0.003	96	69505	25.0	25.7	
31 trans-1,2-Dichloroethene	96	4.518	4.528	-0.010	98	56632	10.0	10.3	
32 Methyl tert-butyl ether	73	4.512	4.557	-0.045	89	228032	10.0	10.6	
34 Hexane	57	4.962	4.972	-0.010	93	70090	10.0	10.4	
35 1,1-Dichloroethane	63	5.181	5.187	-0.006	96	97166	10.0	10.9	
37 Isopropyl ether	45	5.255	5.271	-0.016	97	191229	10.0	10.4	
38 2-Chloro-1,3-butadiene	53	5.300	5.300	0.000	90	82291	10.0	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.795	5.808	-0.013	96	203809	10.0	10.4	
40 2-Butanone (MEK)	43	6.001	6.004	-0.004	98	67486	20.0	19.3	
42 cis-1,2-Dichloroethene	96	6.020	6.030	-0.010	81	63494	10.0	10.5	
43 2,2-Dichloropropane	77	6.055	6.058	-0.003	86	108674	10.0	10.7	
45 Propionitrile	54	6.087	6.081	0.006	95	63497	50.0	55.9	
46 Methyl acrylate	55	6.132	6.139	-0.007	32	69735	10.0	10.2	a
S 41 1,2-Dichloroethene, Total	100				0			20.8	
47 Methacrylonitrile	67	6.290	6.296	-0.006	91	75717	25.0	26.6	
48 Chlorobromomethane	128	6.354	6.354	0.000	93	34369	10.0	10.8	
49 Tetrahydrofuran	71	6.373	6.380	-0.007	90	54096	50.0	53.3	
50 Chloroform	83	6.512	6.515	-0.003	93	103075	10.0	10.3	
\$ 51 Dibromofluoromethane (Surr)	113	6.724	6.730	-0.006	93	281206	50.0	50.0	
52 1,1,1-Trichloroethane	97	6.750	6.759	-0.009	95	105483	10.0	10.3	
53 Cyclohexane	56	6.853	6.862	-0.009	90	116338	10.0	10.2	
55 1,1-Dichloropropene	75	6.959	6.959	0.000	94	75656	10.0	10.5	
54 Carbon tetrachloride	117	6.952	6.965	-0.013	90	83112	10.0	10.2	
56 Isobutyl alcohol	41	7.129	7.126	0.003	98	47306	125.0	131.5	
\$ 57 1,2-Dichloroethane-d4 (Surr)	102	7.174	7.187	-0.013	89	67524	50.0	49.7	
58 Benzene	78	7.216	7.222	-0.006	95	237275	10.0	10.7	
59 1,2-Dichloroethane	62	7.287	7.293	-0.006	98	80030	10.0	10.6	
61 Tert-amyl methyl ether	73	7.422	7.428	-0.006	99	200951	10.0	10.5	
* 62 Fluorobenzene (IS)	96	7.624	7.628	-0.004	99	1120550	50.0	50.0	
63 n-Heptane	43	7.647	7.653	-0.006	92	74855	10.0	10.4	
65 n-Butanol	56	8.013	8.010	0.003	88	33281	125.0	136.6	
66 Trichloroethene	95	8.107	8.110	-0.003	98	59938	10.0	10.4	
67 Ethyl acrylate	55	8.222	8.226	-0.004	99	77277	10.0	9.87	a
68 Methylcyclohexane	83	8.422	8.425	-0.003	90	113810	10.0	10.0	
69 1,2-Dichloropropane	63	8.434	8.438	-0.004	85	58564	10.0	10.6	
70 2-ethoxy-2-methyl butane	87	8.451	8.460	-0.009	93	92553	10.0	10.2	
71 Methyl methacrylate	69	8.531	8.528	0.003	93	47495	10.0	10.2	
72 1,4-Dioxane	88	8.537	8.531	0.006	58	10810	125.0	140.0	
73 Dibromomethane	93	8.547	8.547	0.000	97	42078	10.0	10.4	
75 Dichlorobromomethane	83	8.782	8.788	-0.006	98	71476	10.0	10.2	
76 2-Nitropropane	41	9.055	9.052	0.003	98	102850	50.0	52.2	
77 2-Chloroethyl vinyl ether	63	9.155	9.155	0.000	90	22739	10.0	11.0	
78 cis-1,3-Dichloropropene	75	9.341	9.345	-0.003	95	87430	10.0	10.1	
79 4-Methyl-2-pentanone (MIBK)	43	9.524	9.521	0.003	97	162671	20.0	19.7	
\$ 80 Toluene-d8 (Surr)	98	9.656	9.660	-0.004	93	1126224	50.0	50.0	
81 Toluene	92	9.733	9.737	-0.004	97	146597	10.0	10.5	
120 trans-1,3-Dichloropropene	75	9.994	9.994	0.000	93	79754	10.0	10.3	
S 119 1,3-Dichloropropene, Total	100				0			20.4	
121 Ethyl methacrylate	69	10.061	10.062	-0.001	89	92979	10.0	10.6	
122 1,1,2-Trichloroethane	97	10.196	10.200	-0.004	90	52957	10.0	10.2	
123 Tetrachloroethene	166	10.296	10.293	0.003	96	61565	10.0	10.4	
124 1,3-Dichloropropane	76	10.360	10.361	-0.001	91	86663	10.0	10.5	
125 2-Hexanone	43	10.418	10.418	0.000	97	107902	20.0	20.4	
128 Chlorodibromomethane	129	10.573	10.579	-0.006	90	55465	10.0	10.1	
129 Ethylene Dibromide	107	10.688	10.689	0.000	97	57526	10.0	10.3	
* 130 Chlorobenzene-d5 (IS)	117	11.126	11.126	0.000	85	888628	50.0	50.0	
132 1-Chlorohexane	91	11.139	11.139	0.000	97	81307	10.0	10.5	
133 Chlorobenzene	112	11.151	11.155	-0.004	95	163865	10.0	10.5	
134 1,1,1,2-Tetrachloroethane	131	11.235	11.235	0.000	94	64190	10.0	10.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Ethylbenzene	91	11.241	11.242	-0.001	98	308706	10.0	10.8	
S 131 Xylenes, Total	106				0			32.3	
136 m-Xylene & p-Xylene	106	11.357	11.357	0.000	100	241495	20.0	21.6	
137 n-Butyl acrylate	55	11.637	11.637	0.000	96	141486	10.0	10.9	a
138 o-Xylene	106	11.688	11.688	0.000	97	128184	10.0	10.6	
139 Styrene	104	11.704	11.701	0.003	95	199168	10.0	11.0	
140 Bromoform	173	11.856	11.856	0.000	96	40611	10.0	10.1	
142 Isopropylbenzene	105	11.987	11.991	-0.004	95	326192	10.0	10.8	
141 Cyclohexanone	55	12.061	12.061	0.000	92	94835	250.0	260.5	
\$ 143 4-Bromofluorobenzene (Surr)	95	12.132	12.132	0.000	90	457973	50.0	51.5	
145 1,1,2,2-Tetrachloroethane	83	12.232	12.232	0.000	94	102093	10.0	10.5	
146 Bromobenzene	156	12.248	12.248	0.000	95	78464	10.0	10.6	
147 trans-1,4-Dichloro-2-butene	53	12.257	12.258	-0.001	89	65336	25.0	26.2	
148 1,2,3-Trichloropropane	110	12.277	12.280	-0.003	84	30138	10.0	10.4	
149 N-Propylbenzene	91	12.319	12.319	0.000	99	388289	10.0	10.7	
150 2-Chlorotoluene	126	12.393	12.396	-0.003	97	79599	10.0	10.6	
151 1,3,5-Trimethylbenzene	105	12.457	12.457	0.000	95	293694	10.0	10.3	
153 4-Chlorotoluene	126	12.486	12.486	0.000	98	77571	10.0	10.7	
154 tert-Butylbenzene	134	12.695	12.698	-0.003	92	52658	10.0	10.0	
156 1,2,4-Trimethylbenzene	105	12.740	12.740	0.000	97	305935	10.0	10.6	
157 sec-Butylbenzene	105	12.862	12.862	0.000	94	371967	10.0	10.3	
158 1,3-Dichlorobenzene	146	12.958	12.959	0.000	99	158568	10.0	10.8	
159 4-Isopropyltoluene	119	12.968	12.968	0.000	97	330078	10.0	10.4	
* 160 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	531647	50.0	50.0	
161 1,4-Dichlorobenzene	146	13.032	13.029	0.003	96	156013	10.0	10.4	
162 1,2,3-Trimethylbenzene	105	13.042	13.045	-0.003	98	321963	10.0	10.3	
163 Benzyl chloride	91	13.110	13.106	0.004	98	200834	10.0	10.6	
164 1,3-Diethylbenzene	119	13.171	13.171	0.000	96	199183	10.0	10.7	
165 p-Diethylbenzene	119	13.241	13.241	0.000	95	211264	10.0	10.9	
166 n-Butylbenzene	92	13.261	13.261	0.000	97	166722	10.0	10.8	
167 1,2-Dichlorobenzene	146	13.293	13.293	0.000	99	168648	10.0	10.8	
168 o-diethylbenzene	119	13.312	13.312	0.000	95	160206	10.0	10.3	
170 1,2-Dibromo-3-Chloropropane	75	13.830	13.827	0.003	86	25085	10.0	9.89	
171 1,3,5-Trichlorobenzene	180	13.958	13.958	0.000	97	134223	10.0	10.6	
172 1,2,4-Trichlorobenzene	180	14.383	14.383	0.000	94	135626	10.0	10.6	
173 2-Ethylhexyl acrylate	55	14.441	14.441	0.000	81	130229	10.0	9.60	a
174 Hexachlorobutadiene	225	14.466	14.466	0.000	97	46541	10.0	9.94	
175 Naphthalene	128	14.563	14.563	0.000	97	472793	10.0	10.7	
176 1,2,3-Trichlorobenzene	180	14.708	14.704	0.004	97	140459	10.0	10.5	
177 2-Methylnaphthalene	142	15.322	15.319	0.003	91	271192	10.0	10.4	
S 188 Total Diethylbenzene	1				0			31.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00192	Amount Added: 2.00	Units: uL	
MSV_CCV_CYC_00009	Amount Added: 8.00	Units: uL	
MSV_CCV_VOC#3_00188	Amount Added: 1.60	Units: uL	
MSV_CCV_2CEVE_00184	Amount Added: 2.00	Units: uL	
MSV_CCV_GASES_00819	Amount Added: 1.00	Units: uL	
MSV_CCV_EE_00007	Amount Added: 2.00	Units: uL	
MSV_CCV_OH_Sp_00012	Amount Added: 2.00	Units: uL	
MSV_HP23_ISSS_00014	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 16-Jul-2024 20:47:35

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X13.D

Injection Date: 15-Jul-2024 18:26:30

Instrument ID: 9915

Operator ID: knk41612

Lims ID: IC v10

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

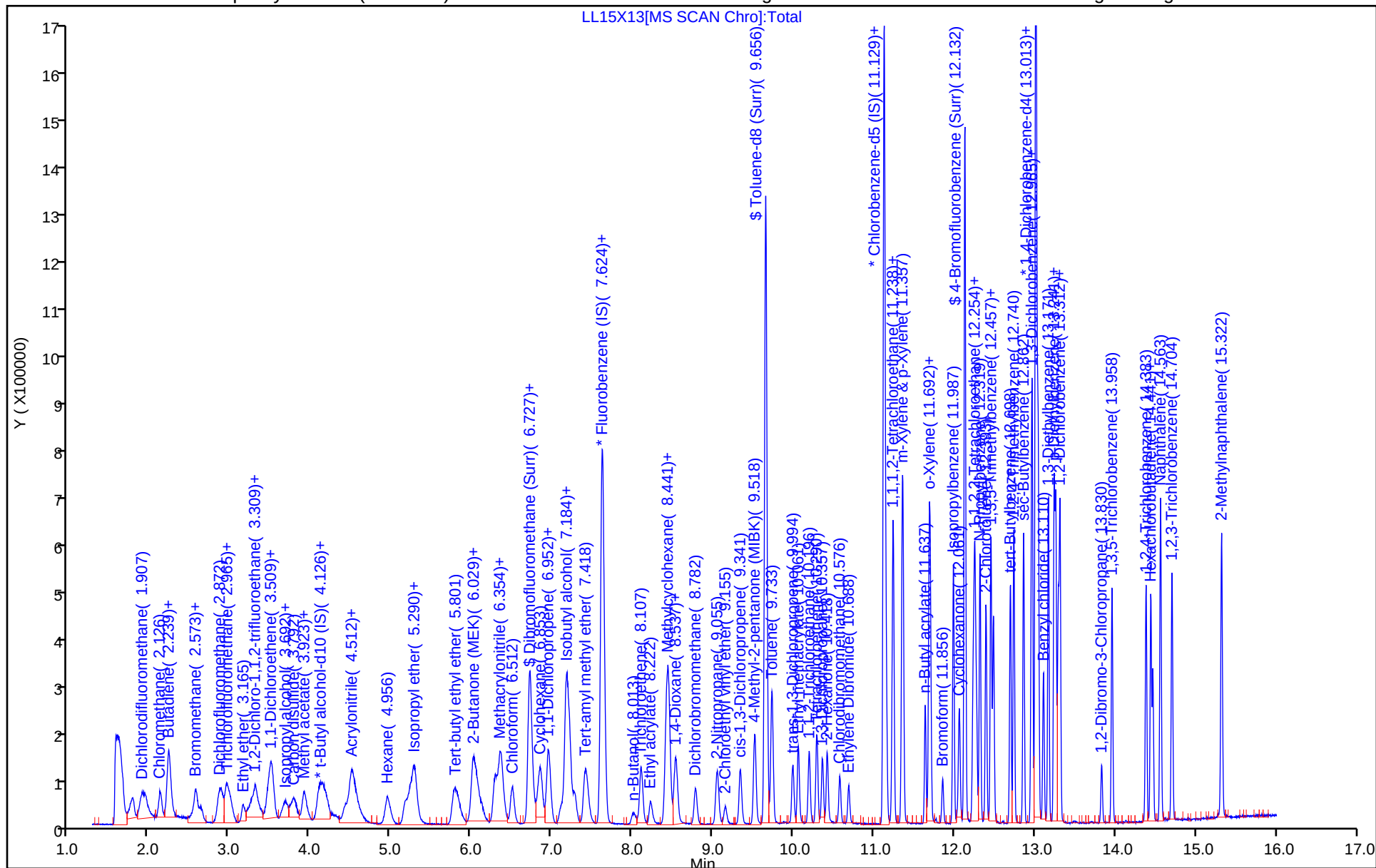
ALS Bottle#: 13

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

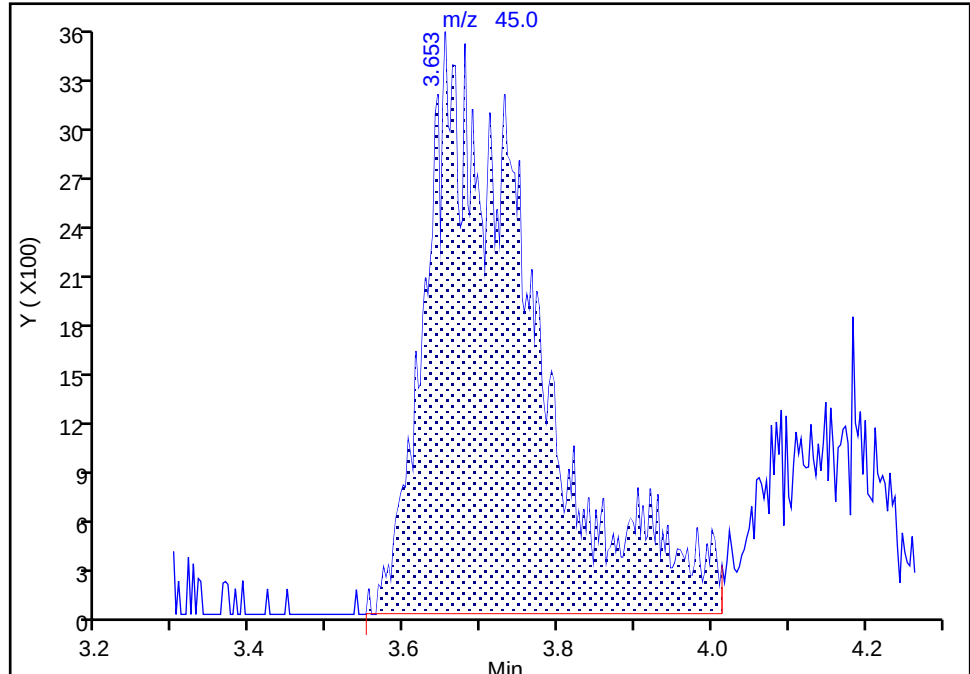
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Injection Date: 15-Jul-2024 18:26:30 Instrument ID: 9915
Lims ID: IC v10
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

20 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

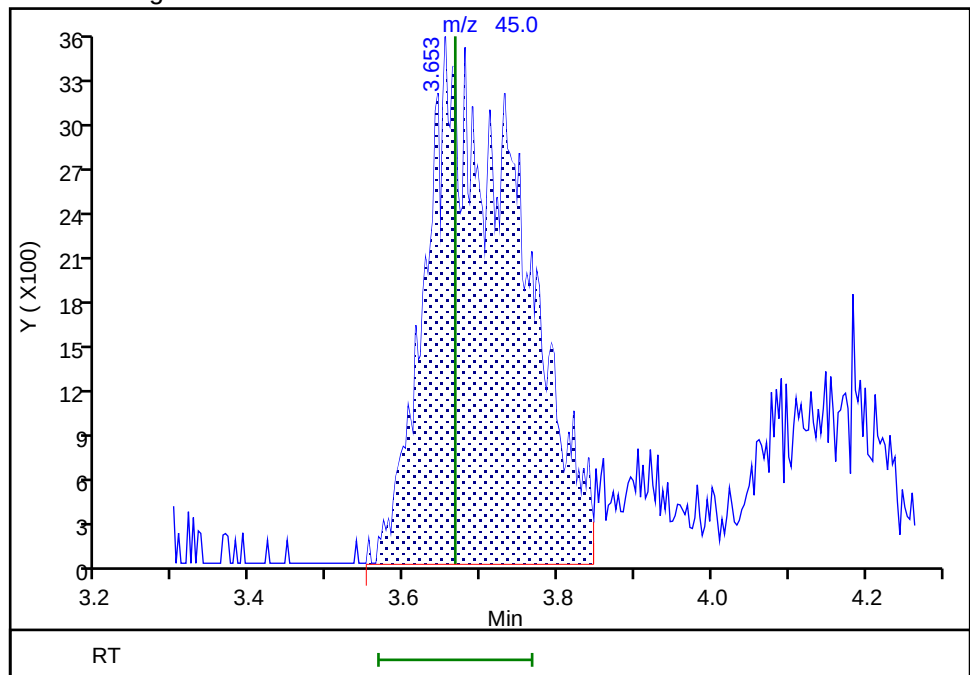
RT: 3.65
Area: 33664
Amount: 59.624069
Amount Units: ug/l

Processing Integration Results



RT: 3.65
Area: 29377
Amount: 53.762910
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 16-Jul-2024 20:04:55 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC

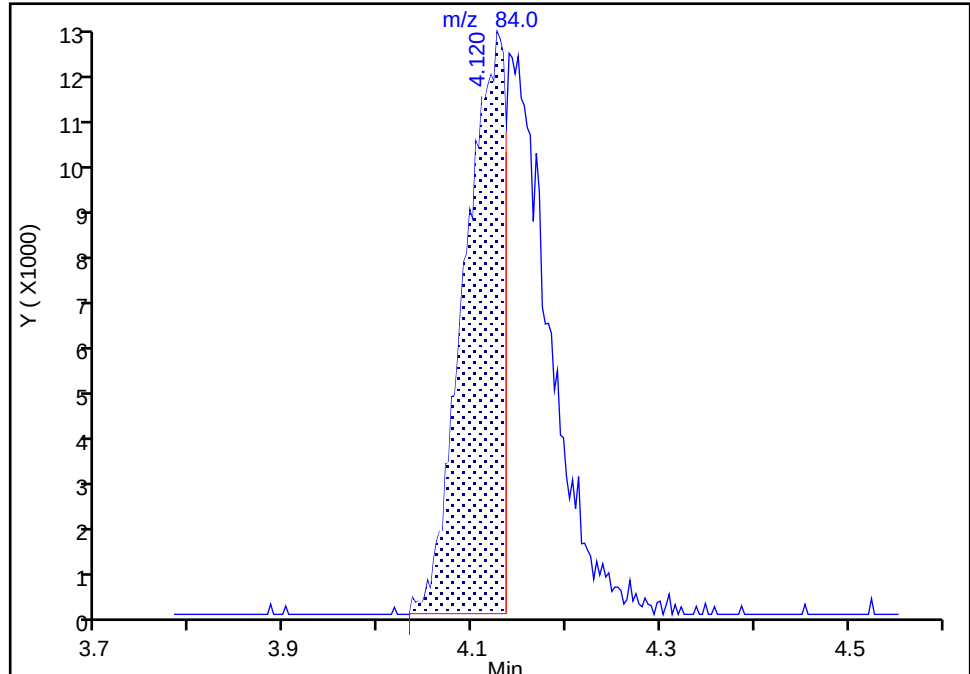
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X13.D
Injection Date: 15-Jul-2024 18:26:30 Instrument ID: 9915
Lims ID: IC v10
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

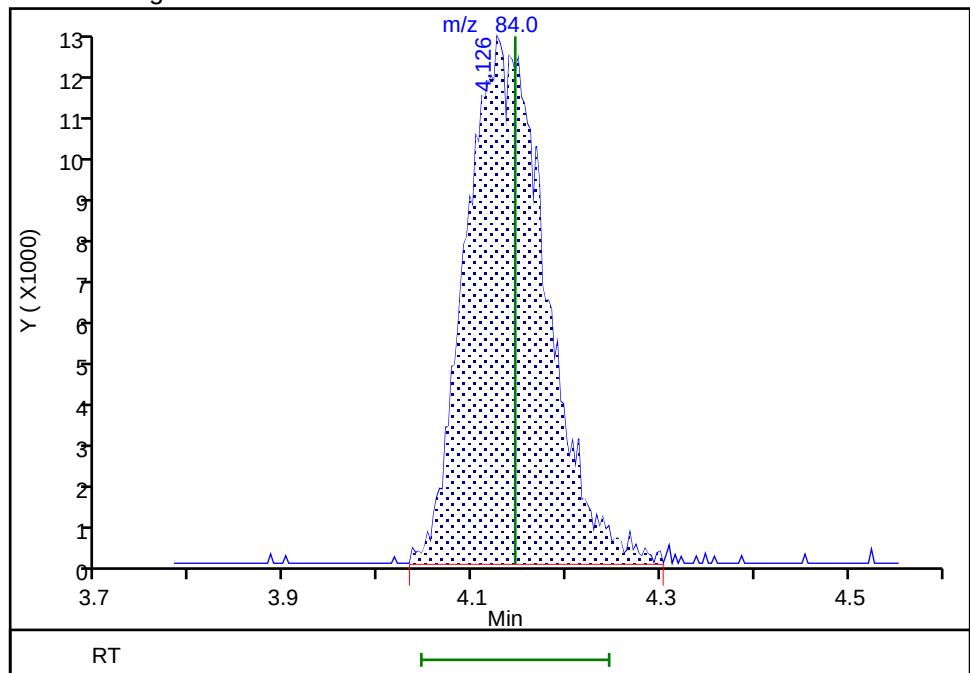
RT: 4.12
Area: 36602
Amount: 5.538311
Amount Units: ug/l

Processing Integration Results



RT: 4.13
Area: 72793
Amount: 10.215288
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:52:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

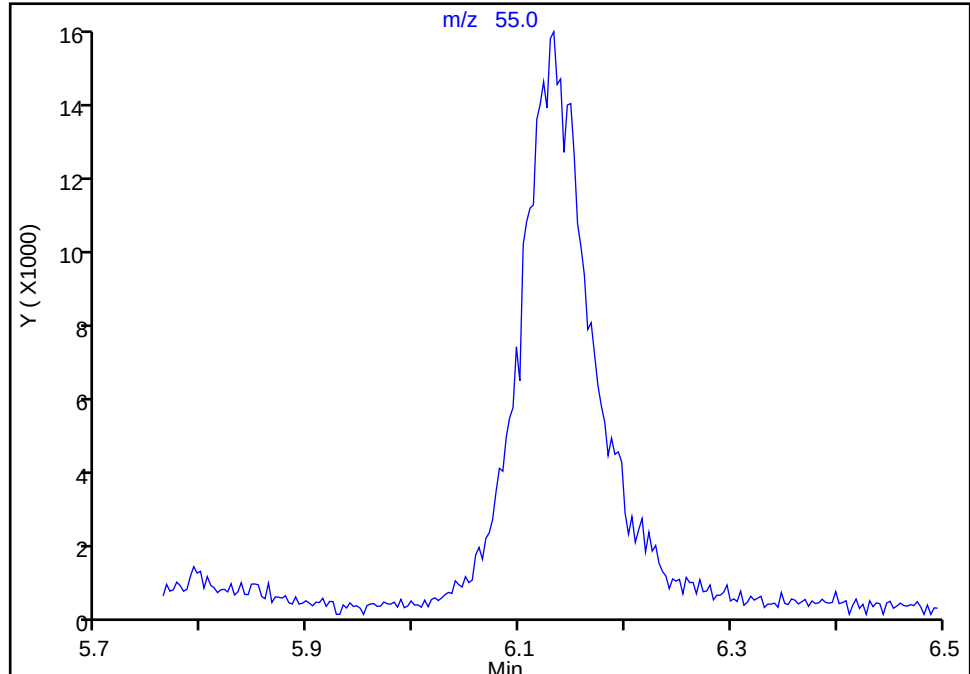
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Injection Date: 15-Jul-2024 18:26:30 Instrument ID: 9915
Lims ID: IC v10
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

46 Methyl acrylate, CAS: 96-33-3

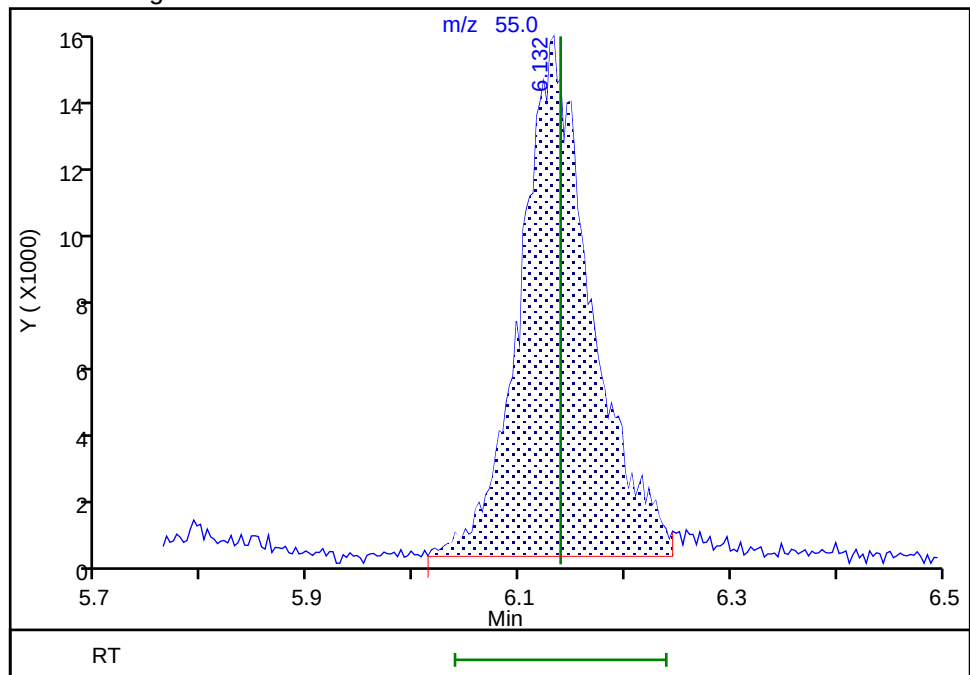
Signal: 1

Not Detected
Expected RT: 6.14

Processing Integration Results



Manual Integration Results



RT: 6.13
Area: 69735
Amount: 10.159736
Amount Units: ug/l

Reviewer: DVW2, 16-Jul-2024 08:31:07 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

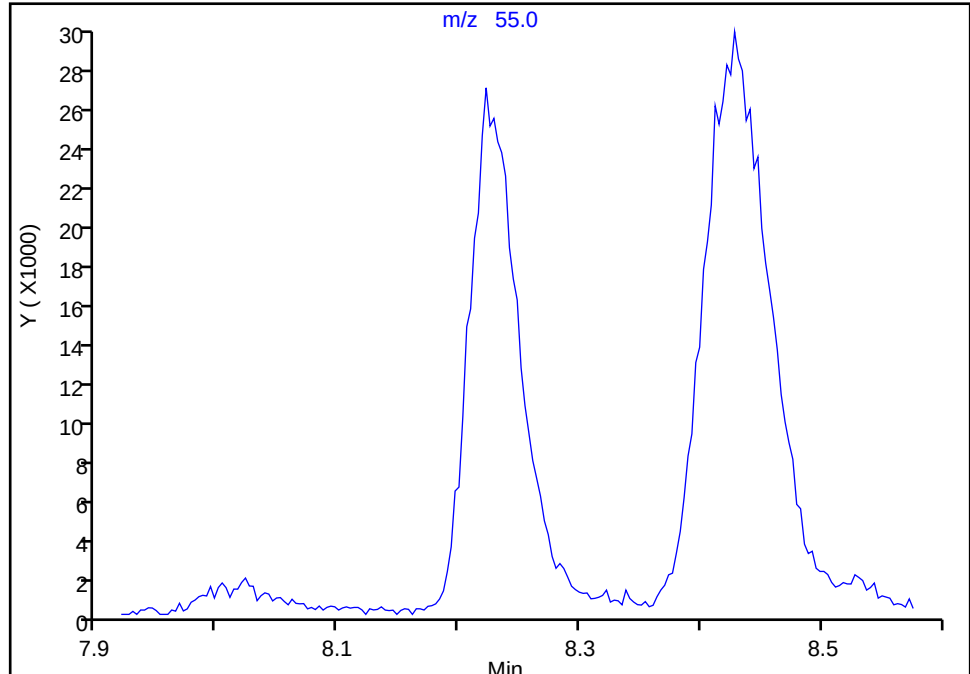
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Injection Date: 15-Jul-2024 18:26:30 Instrument ID: 9915
Lims ID: IC v10
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

67 Ethyl acrylate, CAS: 140-88-5

Signal: 1

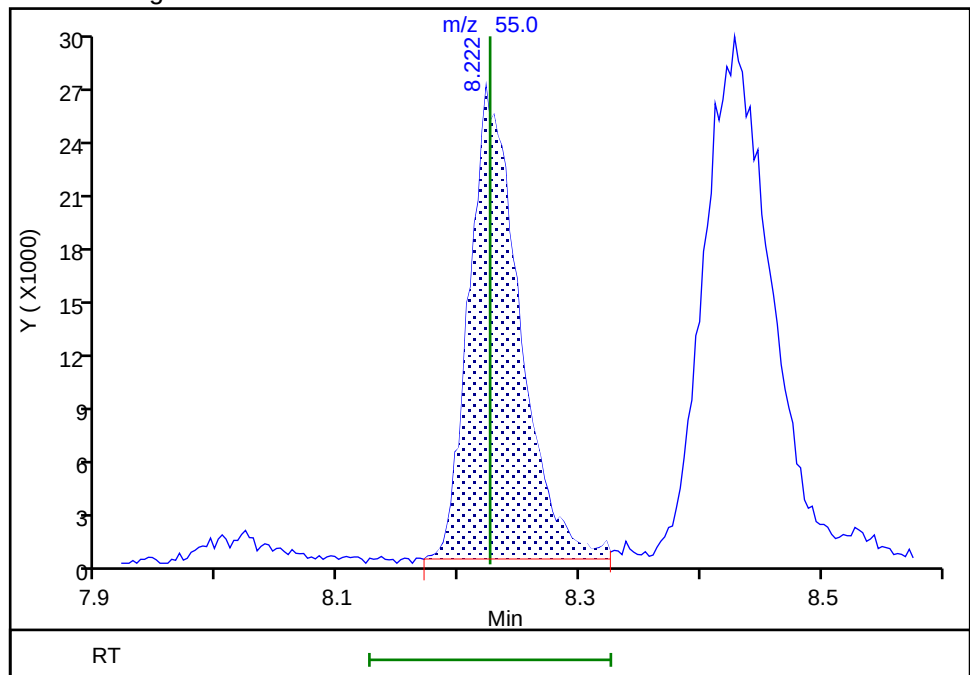
Not Detected
Expected RT: 8.23

Processing Integration Results



RT: 8.22
Area: 77277
Amount: 9.868605
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:31:03 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

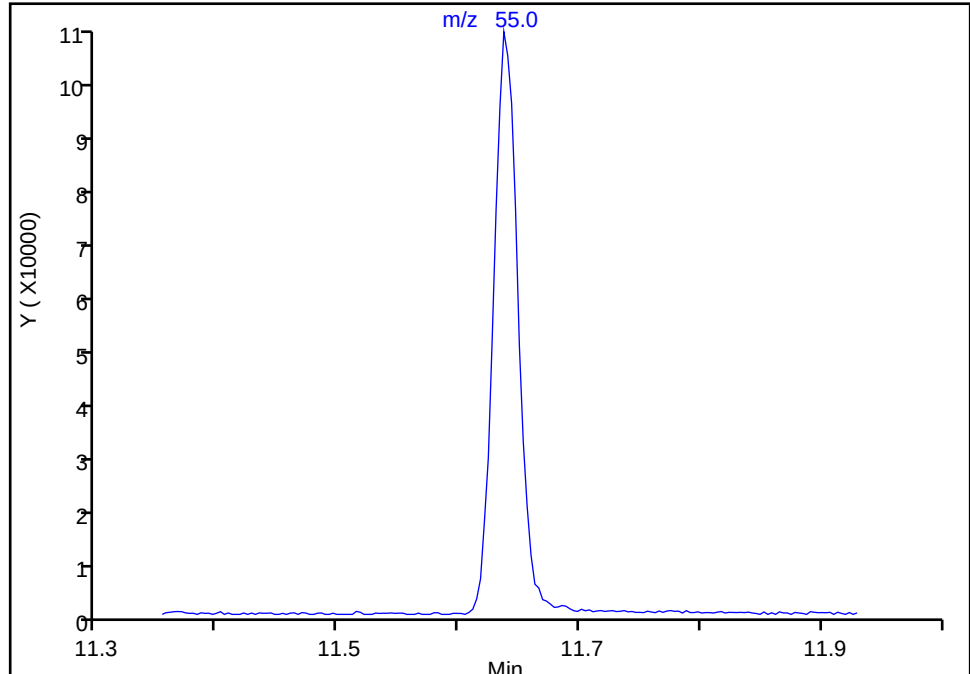
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Injection Date: 15-Jul-2024 18:26:30 Instrument ID: 9915
Lims ID: IC v10
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

137 n-Butyl acrylate, CAS: 141-32-2

Signal: 1

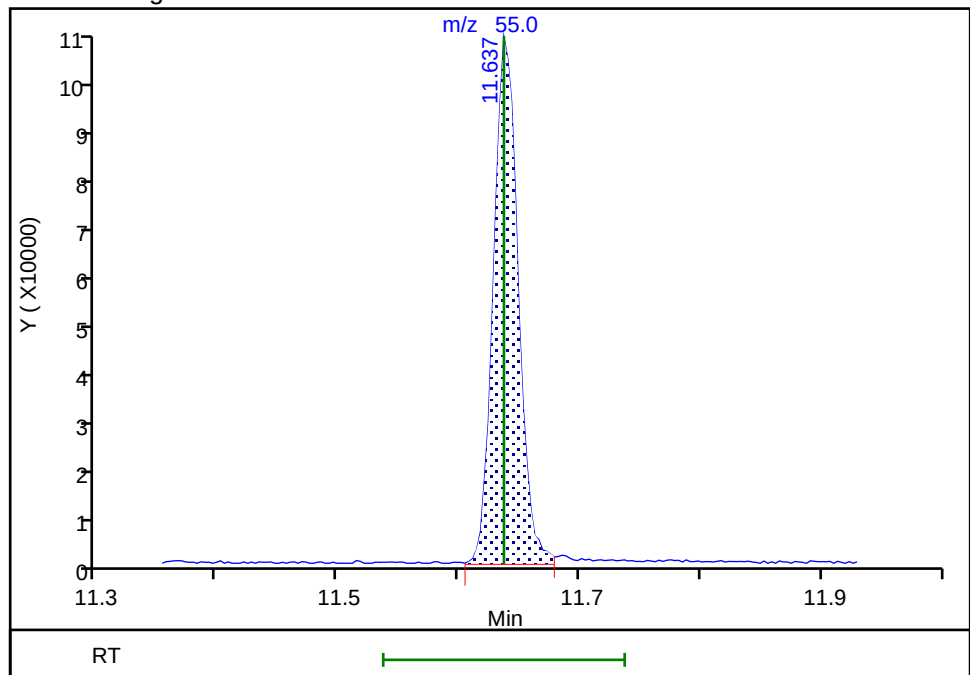
Not Detected
Expected RT: 11.64

Processing Integration Results



RT: 11.64
Area: 141486
Amount: 10.913155
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:30:59 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

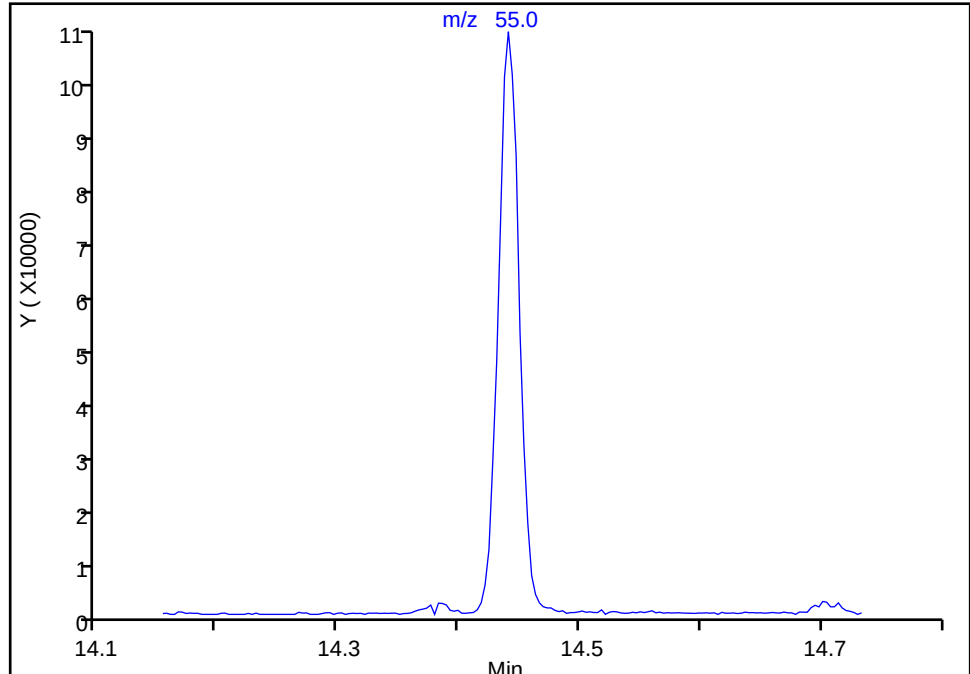
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X13.D
Injection Date: 15-Jul-2024 18:26:30 Instrument ID: 9915
Lims ID: IC v10
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

173 2-Ethylhexyl acrylate, CAS: 103-11-7

Signal: 1

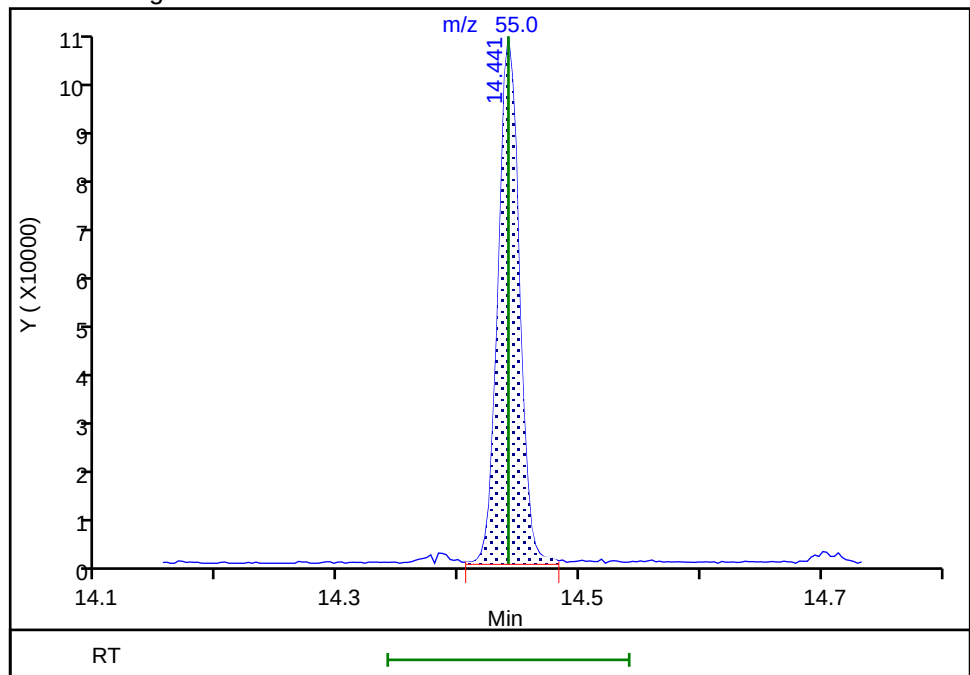
Not Detected
Expected RT: 14.44

Processing Integration Results



RT: 14.44
Area: 130229
Amount: 9.595110
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:30:55 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X14.D
 Lims ID: IC v20
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 15-Jul-2024 18:49:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119345-015
 Misc. Info.: IC V20
 Operator ID: knk41612 Instrument ID: 9915
 Sublist: chrom-MSVoa_9915a*sub91
 Method: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 16-Jul-2024 20:47:39 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1659

First Level Reviewer: DVW2

Date: 16-Jul-2024 07:54:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.946	1.946	0.000	99	205202	20.0	20.8	
4 Chloromethane	50	2.136	2.142	-0.006	99	223194	20.0	20.3	
6 Butadiene	39	2.242	2.245	-0.003	94	212693	20.0	20.2	
5 Vinyl chloride	62	2.251	2.255	-0.004	98	223654	20.0	20.8	
8 Bromomethane	94	2.579	2.589	-0.010	90	170091	20.0	20.4	
9 Chloroethane	64	2.644	2.653	-0.009	100	114758	20.0	20.4	
10 Dichlorofluoromethane	67	2.885	2.898	-0.013	97	355729	20.0	20.5	
11 Trichlorofluoromethane	101	2.968	2.975	-0.007	98	270672	20.0	20.9	
12 Pentane	43	2.968	2.991	-0.023	85	180029	20.0	20.1	
13 Ethyl ether	59	3.161	3.171	-0.010	90	86069	20.0	20.3	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.283	3.284	-0.001	92	159553	20.0	19.9	
16 Acrolein	56	3.325	3.332	-0.007	100	348407	200.4	206.6	
18 Acetone	58	3.496	3.489	0.007	95	32934	40.0	41.3	
17 1,1-Dichloroethene	96	3.496	3.512	-0.016	97	118378	20.0	20.0	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.531	3.528	0.003	93	142046	20.0	20.8	
20 Isopropyl alcohol	45	3.689	3.666	0.023	53	55155	100.0	96.9	
21 Iodomethane	142	3.701	3.705	-0.004	96	261658	20.0	21.0	
22 Carbon disulfide	76	3.795	3.805	-0.010	99	446934	20.0	20.6	
24 Methyl acetate	43	3.898	3.907	-0.009	97	95960	20.0	20.2	
25 3-Chloro-1-propene	41	3.930	3.936	-0.006	93	162606	20.0	19.6	
27 Methylene Chloride	84	4.139	4.145	-0.006	88	142231	20.0	19.8	
* 28 t-Butyl alcohol-d10 (IS)	65	4.203	4.181	0.022	91	293866	250.0	250.0	
29 2-Methyl-2-propanol	59	4.325	4.313	0.012	96	113043	100.0	106.7	
30 Acrylonitrile	53	4.438	4.438	0.000	98	138987	50.0	50.9	
31 trans-1,2-Dichloroethene	96	4.525	4.528	-0.003	99	111806	20.0	20.1	
32 Methyl tert-butyl ether	73	4.528	4.557	-0.029	89	442316	20.0	20.4	
34 Hexane	57	4.965	4.972	-0.007	95	135370	20.0	19.8	
35 1,1-Dichloroethane	63	5.187	5.187	0.000	96	186547	20.0	20.7	
37 Isopropyl ether	45	5.251	5.271	-0.020	95	373068	20.0	20.1	
38 2-Chloro-1,3-butadiene	53	5.303	5.300	0.003	91	160965	20.0	20.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.808	5.808	0.000	98	403235	20.0	20.4	
40 2-Butanone (MEK)	43	6.000	6.004	-0.004	99	145639	40.0	41.2	
42 cis-1,2-Dichloroethene	96	6.023	6.030	-0.007	79	123968	20.0	20.4	
43 2,2-Dichloropropane	77	6.049	6.058	-0.009	87	206446	20.0	20.1	
45 Propionitrile	54	6.081	6.081	0.000	84	122332	100.0	103.4	
46 Methyl acrylate	55	6.129	6.139	-0.010	100	137023	20.0	19.8	a
S 41 1,2-Dichloroethene, Total	100				0			40.5	
47 Methacrylonitrile	67	6.290	6.296	-0.006	91	146013	50.0	50.8	
48 Chlorobromomethane	128	6.357	6.354	0.003	90	64051	20.0	20.0	
49 Tetrahydrofuran	71	6.377	6.380	-0.003	92	104114	100.0	98.5	
50 Chloroform	83	6.508	6.515	-0.007	93	198147	20.0	19.7	
\$ 51 Dibromofluoromethane (Surr)	113	6.727	6.730	-0.003	93	284431	50.0	50.2	
52 1,1,1-Trichloroethane	97	6.743	6.759	-0.016	97	212317	20.0	20.6	
53 Cyclohexane	56	6.856	6.862	-0.006	93	231143	20.0	20.2	
55 1,1-Dichloropropene	75	6.959	6.959	0.000	95	146060	20.0	20.2	
54 Carbon tetrachloride	117	6.965	6.965	0.000	87	164696	20.0	20.0	
56 Isobutyl alcohol	41	7.126	7.126	0.000	93	90430	250.0	241.3	
\$ 57 1,2-Dichloroethane-d4 (Surr)	102	7.184	7.187	-0.003	92	69631	50.0	50.8	
58 Benzene	78	7.222	7.222	0.000	96	455390	20.0	20.3	
59 1,2-Dichloroethane	62	7.283	7.293	-0.010	97	153780	20.0	20.3	
61 Tert-amyl methyl ether	73	7.422	7.428	-0.006	99	392681	20.0	20.4	
* 62 Fluorobenzene (IS)	96	7.631	7.628	0.003	99	1130350	50.0	50.0	
63 n-Heptane	43	7.653	7.653	0.000	92	144590	20.0	19.9	
65 n-Butanol	56	8.013	8.010	0.003	86	65155	250.0	256.7	
66 Trichloroethene	95	8.110	8.110	0.000	98	115451	20.0	19.9	
67 Ethyl acrylate	55	8.225	8.226	-0.001	98	151599	20.0	19.2	a
68 Methylcyclohexane	83	8.425	8.425	0.000	90	229714	20.0	20.1	
69 1,2-Dichloropropane	63	8.438	8.438	0.000	89	112394	20.0	20.2	
70 2-ethoxy-2-methyl butane	87	8.457	8.460	-0.003	91	182288	20.0	19.9	
71 Methyl methacrylate	69	8.531	8.528	0.003	90	92543	20.0	19.6	
72 1,4-Dioxane	88	8.531	8.531	0.000	33	21323	250.0	265.1	
73 Dibromomethane	93	8.550	8.547	0.003	96	79903	20.0	19.6	
75 Dichlorobromomethane	83	8.788	8.788	0.000	99	139793	20.0	19.8	
76 2-Nitropropane	41	9.058	9.052	0.006	98	205317	100.0	100.1	
77 2-Chloroethyl vinyl ether	63	9.155	9.155	0.000	92	40202	20.0	19.3	
78 cis-1,3-Dichloropropene	75	9.338	9.345	-0.006	95	173167	20.0	19.9	
79 4-Methyl-2-pentanone (MIBK)	43	9.518	9.521	-0.003	97	331935	40.0	39.9	
\$ 80 Toluene-d8 (Surr)	98	9.656	9.660	-0.004	93	1123908	50.0	50.8	
81 Toluene	92	9.733	9.737	-0.004	98	286923	20.0	20.9	
120 trans-1,3-Dichloropropene	75	9.994	9.994	0.000	93	156996	20.0	20.6	
S 119 1,3-Dichloropropene, Total	100				0			40.5	
121 Ethyl methacrylate	69	10.058	10.062	-0.004	89	181470	20.0	21.1	
122 1,1,2-Trichloroethane	97	10.196	10.200	-0.004	90	103209	20.0	20.2	
123 Tetrachloroethene	166	10.293	10.293	0.000	97	120116	20.0	20.7	
124 1,3-Dichloropropane	76	10.360	10.361	-0.001	92	168134	20.0	20.7	
125 2-Hexanone	43	10.421	10.418	0.003	97	210441	40.0	40.5	
128 Chlorodibromomethane	129	10.579	10.579	0.000	89	110766	20.0	20.5	
129 Ethylene Dibromide	107	10.692	10.689	0.004	98	114784	20.0	21.0	
* 130 Chlorobenzene-d5 (IS)	117	11.126	11.126	0.000	85	873333	50.0	50.0	
132 1-Chlorohexane	91	11.138	11.139	-0.001	98	150862	20.0	19.8	
133 Chlorobenzene	112	11.151	11.155	-0.004	95	311071	20.0	20.4	
134 1,1,1,2-Tetrachloroethane	131	11.235	11.235	0.000	95	130998	20.0	21.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Ethylbenzene	91	11.241	11.242	-0.001	98	580076	20.0	20.6	
S 131 Xylenes, Total	106				0			62.1	
136 m-Xylene & p-Xylene	106	11.357	11.357	0.000	100	452219	40.0	41.2	
137 n-Butyl acrylate	55	11.640	11.637	0.003	96	254037	20.0	19.9	a
138 o-Xylene	106	11.688	11.688	0.000	96	247190	20.0	20.9	
139 Styrene	104	11.701	11.701	0.000	94	372554	20.0	20.8	
140 Bromoform	173	11.855	11.856	-0.001	96	79591	20.0	20.1	
142 Isopropylbenzene	105	11.991	11.991	0.000	95	617772	20.0	20.7	
141 Cyclohexanone	55	12.058	12.061	-0.003	93	181036	500.0	477.5	
\$ 143 4-Bromofluorobenzene (Surr)	95	12.132	12.132	0.000	90	441890	50.0	50.5	
145 1,1,2,2-Tetrachloroethane	83	12.232	12.232	0.000	94	196535	20.0	20.9	a
146 Bromobenzene	156	12.248	12.248	0.000	97	144511	20.0	20.2	
147 trans-1,4-Dichloro-2-butene	53	12.257	12.258	-0.001	93	126866	50.0	52.4	
148 1,2,3-Trichloropropane	110	12.277	12.280	-0.003	84	56941	20.0	20.3	
149 N-Propylbenzene	91	12.318	12.319	-0.001	99	721713	20.0	20.6	
150 2-Chlorotoluene	126	12.392	12.396	-0.004	97	148367	20.0	20.3	
151 1,3,5-Trimethylbenzene	105	12.454	12.457	-0.003	94	571554	20.0	20.6	
153 4-Chlorotoluene	126	12.486	12.486	0.000	97	144961	20.0	20.6	
154 tert-Butylbenzene	134	12.698	12.698	0.000	93	104288	20.0	20.5	a
156 1,2,4-Trimethylbenzene	105	12.740	12.740	0.000	98	577719	20.0	20.6	
157 sec-Butylbenzene	105	12.862	12.862	0.000	94	725779	20.0	20.8	
158 1,3-Dichlorobenzene	146	12.958	12.959	0.000	98	290192	20.0	20.4	
159 4-Isopropyltoluene	119	12.968	12.968	0.000	97	635746	20.0	20.7	
* 160 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	94	515519	50.0	50.0	
161 1,4-Dichlorobenzene	146	13.032	13.029	0.003	96	296737	20.0	20.5	
162 1,2,3-Trimethylbenzene	105	13.042	13.045	-0.003	98	622575	20.0	20.5	
163 Benzyl chloride	91	13.106	13.106	0.000	98	384318	20.0	20.9	
164 1,3-Diethylbenzene	119	13.171	13.171	0.000	95	373405	20.0	20.7	
165 p-Diethylbenzene	119	13.241	13.241	0.000	94	388017	20.0	20.6	
166 n-Butylbenzene	92	13.261	13.261	0.000	97	313254	20.0	20.8	
167 1,2-Dichlorobenzene	146	13.293	13.293	0.000	99	314059	20.0	20.7	
168 o-diethylbenzene	119	13.315	13.312	0.003	96	308404	20.0	20.4	
170 1,2-Dibromo-3-Chloropropane	75	13.833	13.827	0.006	87	50718	20.0	20.6	
171 1,3,5-Trichlorobenzene	180	13.962	13.958	0.004	98	254032	20.0	20.8	
172 1,2,4-Trichlorobenzene	180	14.383	14.383	0.000	94	258948	20.0	20.9	
173 2-Ethylhexyl acrylate	55	14.441	14.441	0.000	81	261735	20.0	19.9	a
174 Hexachlorobutadiene	225	14.466	14.466	0.000	98	91650	20.0	20.2	
175 Naphthalene	128	14.563	14.563	0.000	96	923661	20.0	21.6	
176 1,2,3-Trichlorobenzene	180	14.704	14.704	0.000	96	274921	20.0	21.3	
177 2-Methylnaphthalene	142	15.322	15.319	0.003	92	560751	20.0	22.2	
S 188 Total Diethylbenzene	1				0			61.8	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00192	Amount Added: 4.00	Units: uL	
MSV_CCV_CYC_00009	Amount Added: 16.00	Units: uL	
MSV_CCV_VOC#3_00188	Amount Added: 3.20	Units: uL	
MSV_CCV_2CEVE_00184	Amount Added: 4.00	Units: uL	
MSV_CCV_GASES_00819	Amount Added: 2.00	Units: uL	
MSV_CCV_EE_00007	Amount Added: 4.00	Units: uL	
MSV_CCV_OH_Sp_00012	Amount Added: 4.00	Units: uL	
MSV_HP23_ISSS_00014	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 16-Jul-2024 20:47:40

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X14.D

Injection Date: 15-Jul-2024 18:49:30

Instrument ID: 9915

Operator ID: knk41612

Lims ID: IC v20

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

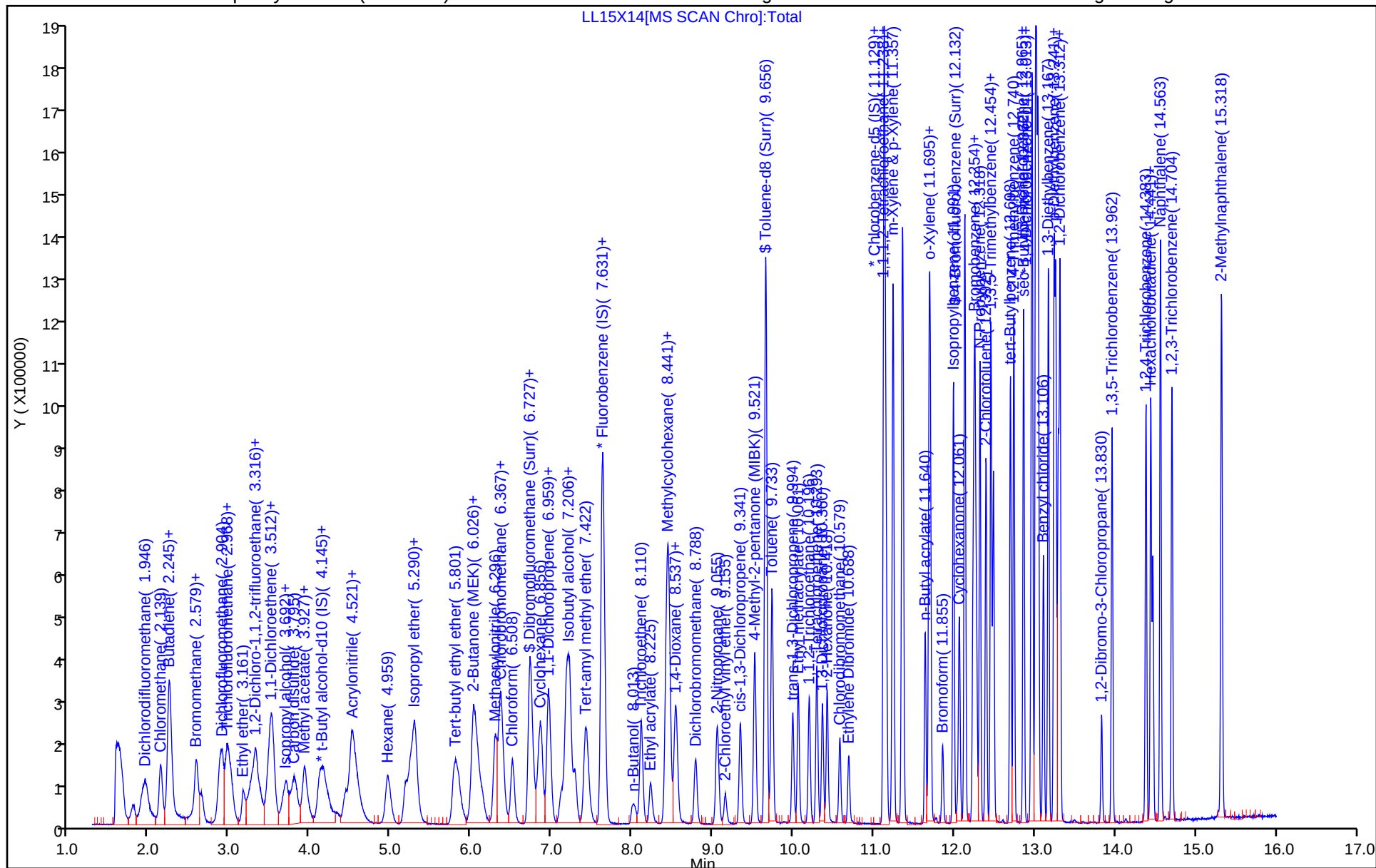
ALS Bottle#: 14

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



10/10/2024

Eurofins Lancaster Laboratories Environment Testing, LLC

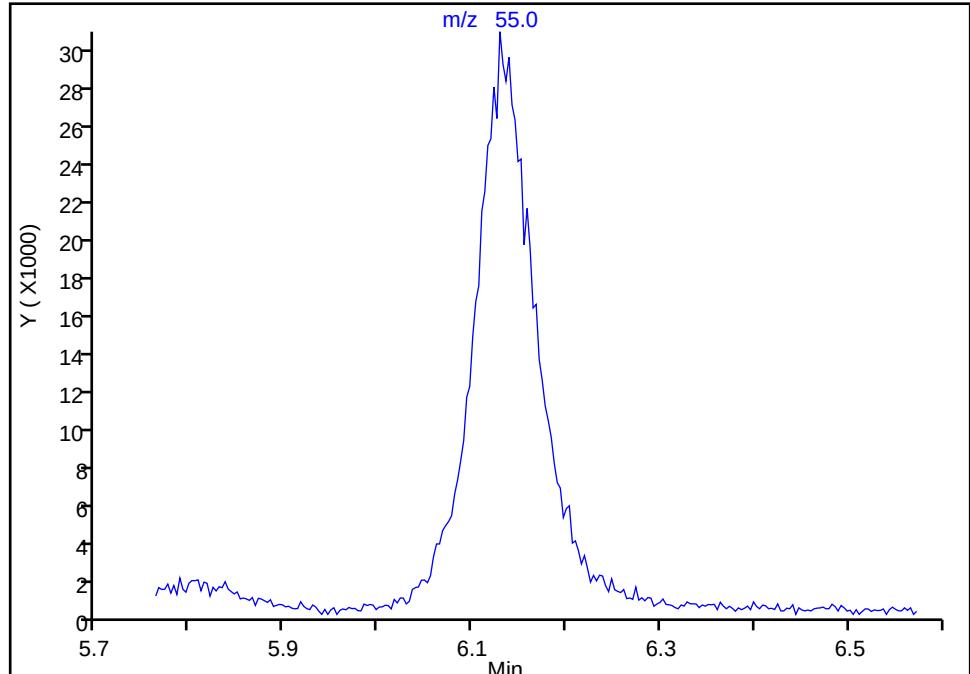
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Injection Date: 15-Jul-2024 18:49:30 Instrument ID: 9915
Lims ID: IC v20
Client ID:
Operator ID: knk41612 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

46 Methyl acrylate, CAS: 96-33-3

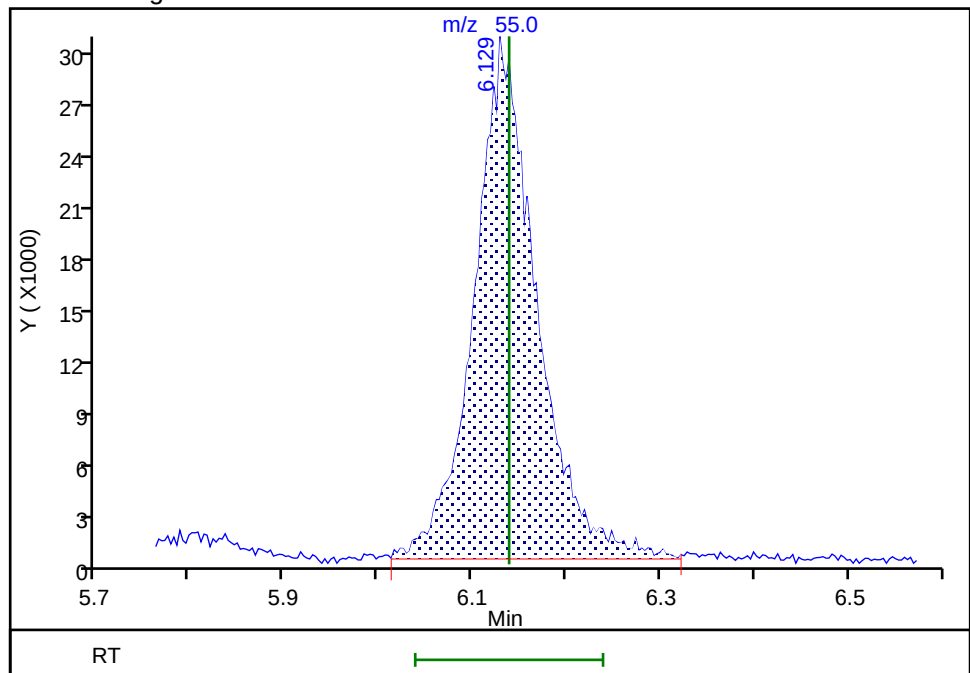
Signal: 1

Not Detected
Expected RT: 6.14

Processing Integration Results



Manual Integration Results



RT: 6.13
Area: 137023
Amount: 19.789890
Amount Units: ug/l

Reviewer: DVW2, 16-Jul-2024 08:31:17 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

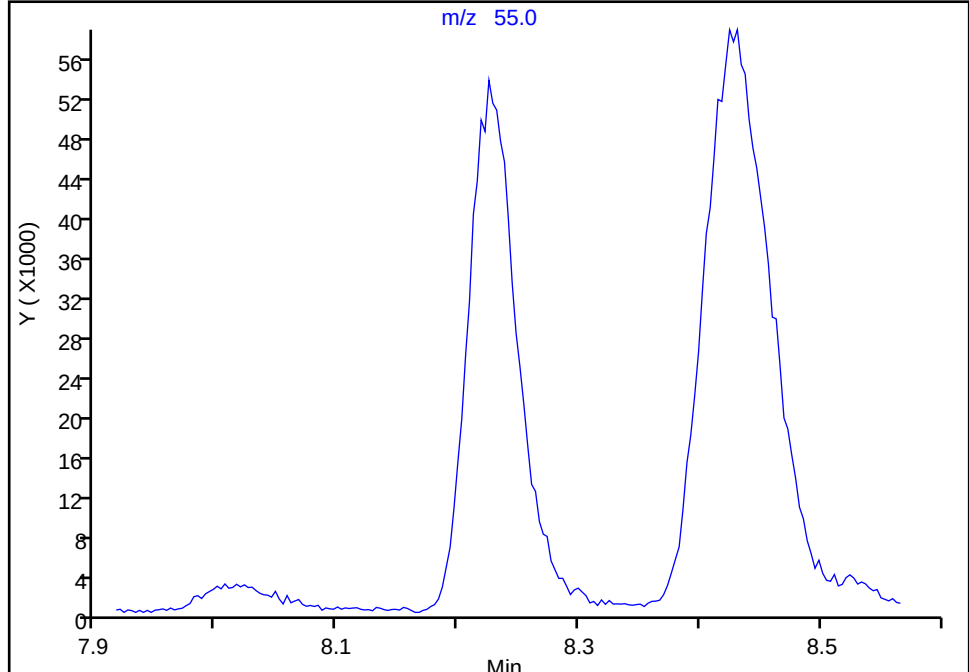
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Injection Date: 15-Jul-2024 18:49:30 Instrument ID: 9915
Lims ID: IC v20
Client ID:
Operator ID: knk41612 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

67 Ethyl acrylate, CAS: 140-88-5

Signal: 1

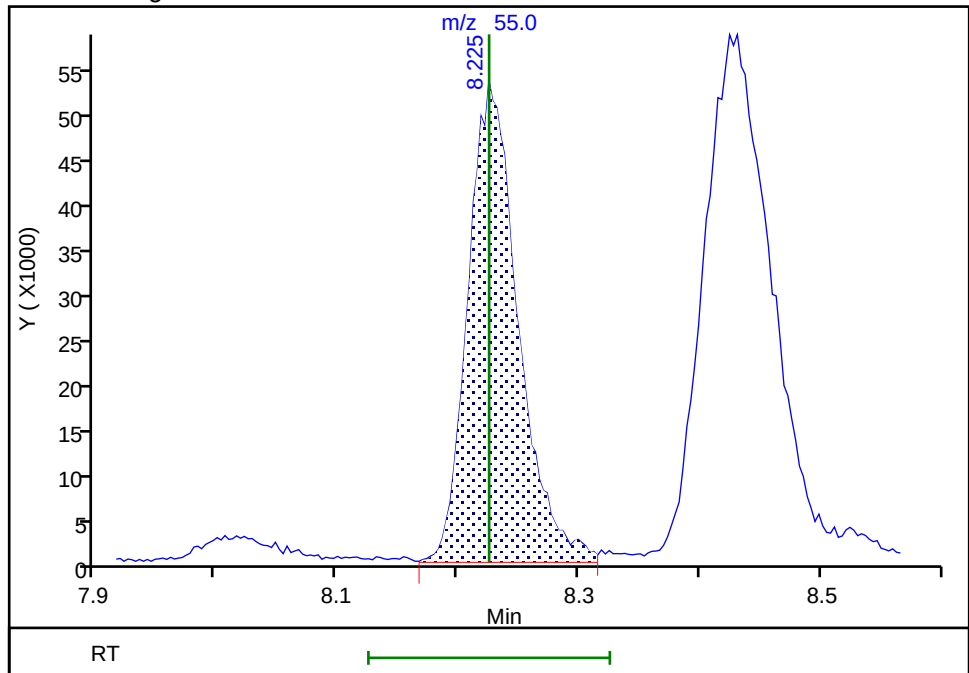
Not Detected
Expected RT: 8.23

Processing Integration Results



RT: 8.23
Area: 151599
Amount: 19.191995
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:31:21 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

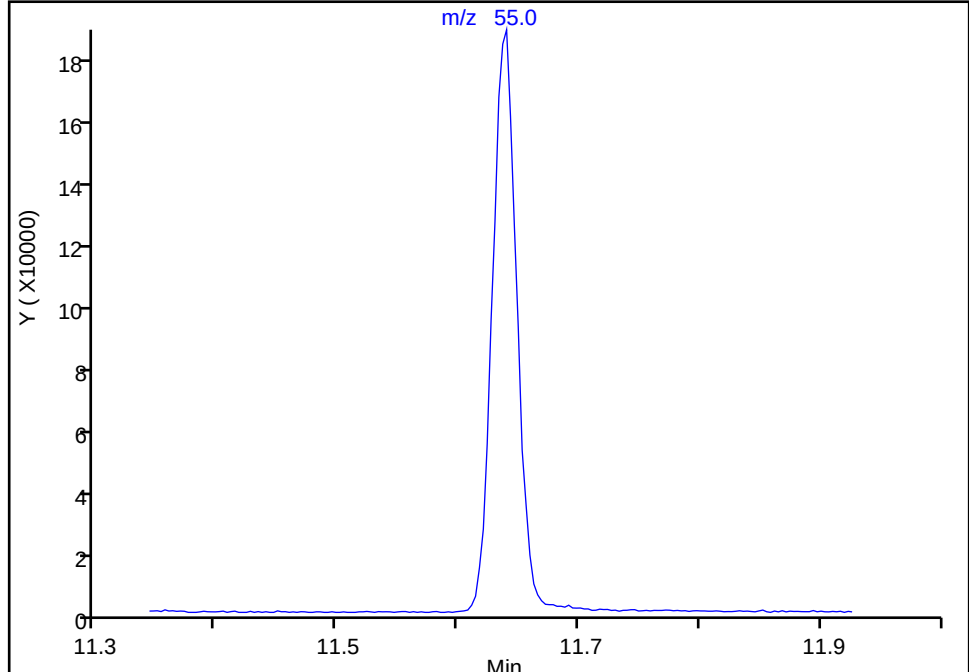
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Injection Date: 15-Jul-2024 18:49:30 Instrument ID: 9915
Lims ID: IC v20
Client ID:
Operator ID: knk41612 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

137 n-Butyl acrylate, CAS: 141-32-2

Signal: 1

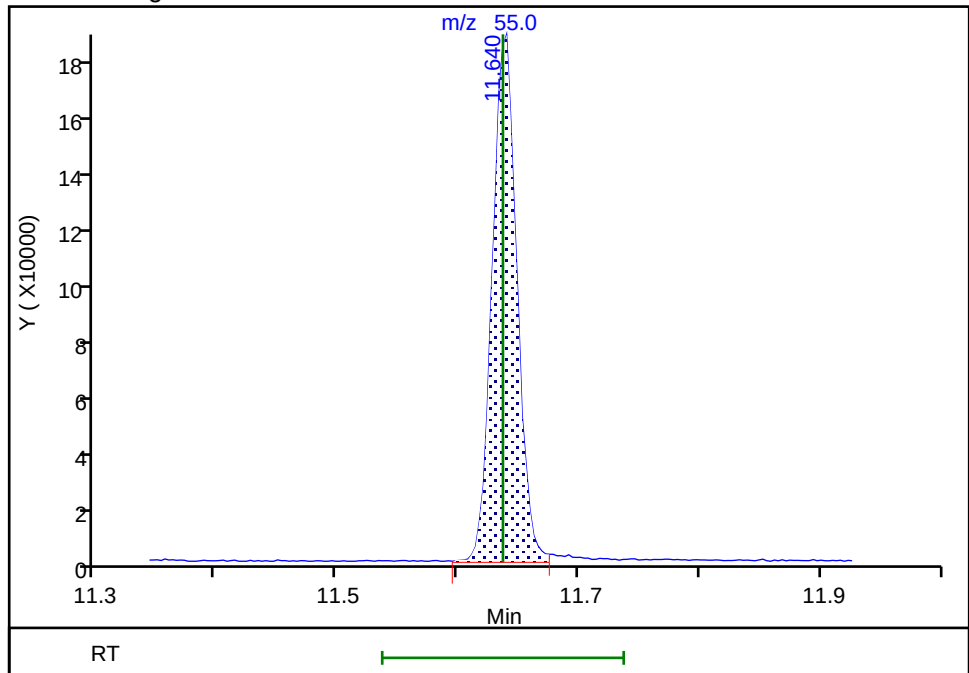
Not Detected
Expected RT: 11.64

Processing Integration Results



RT: 11.64
Area: 254037
Amount: 19.937650
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:31:25 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

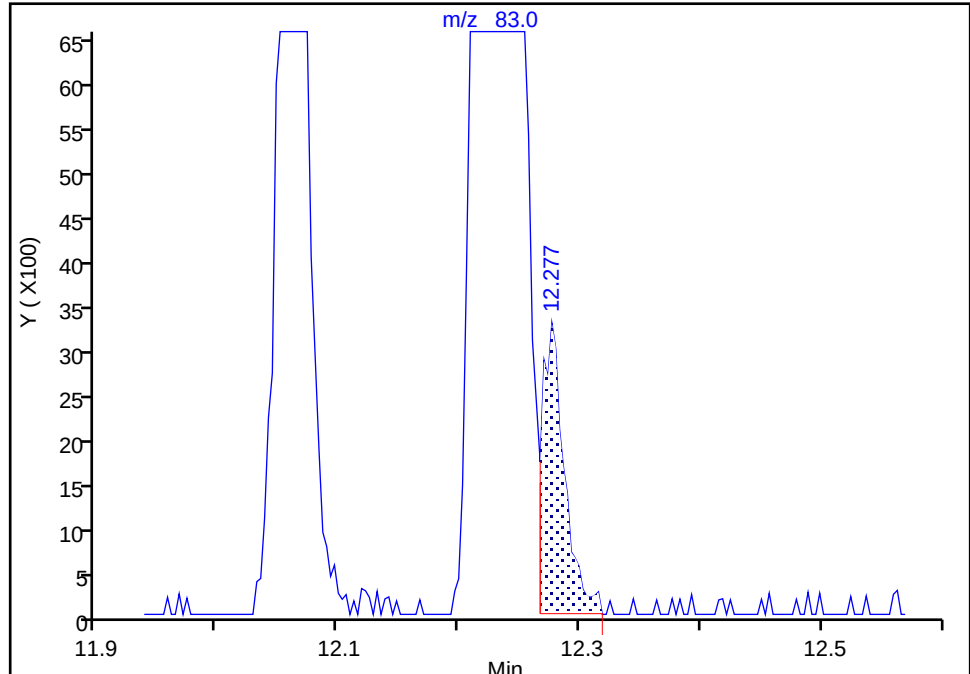
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X14.D
Injection Date: 15-Jul-2024 18:49:30 Instrument ID: 9915
Lims ID: IC v20
Client ID:
Operator ID: knk41612 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

145 1,1,2,2-Tetrachloroethane, CAS: 79-34-5
Signal: 1

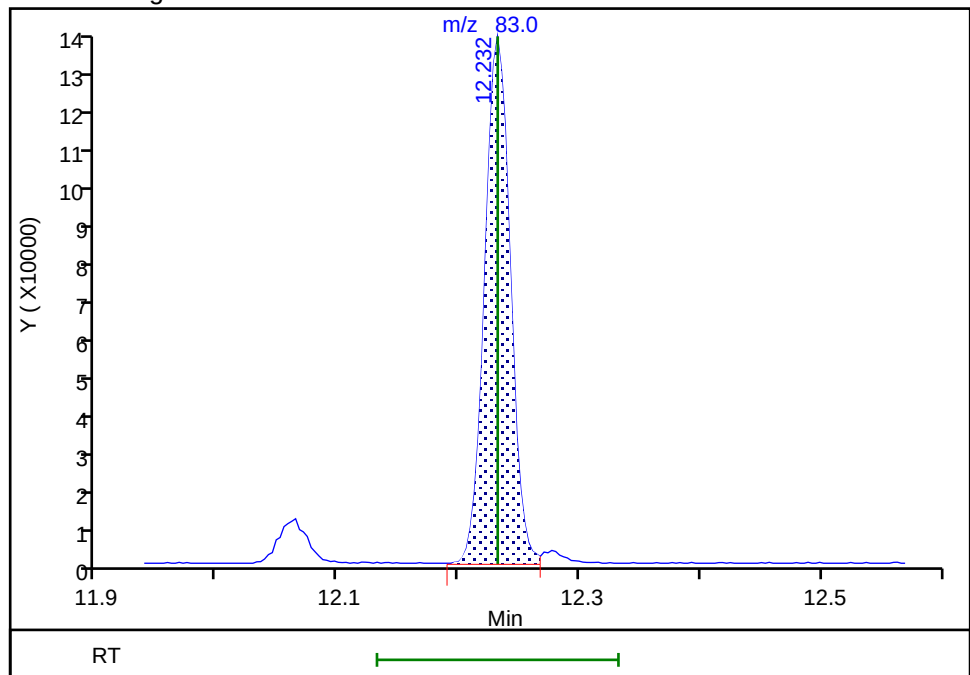
RT: 12.28
Area: 4151
Amount: 0.516417
Amount Units: ug/l

Processing Integration Results



RT: 12.23
Area: 196535
Amount: 20.880752
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:54:17 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

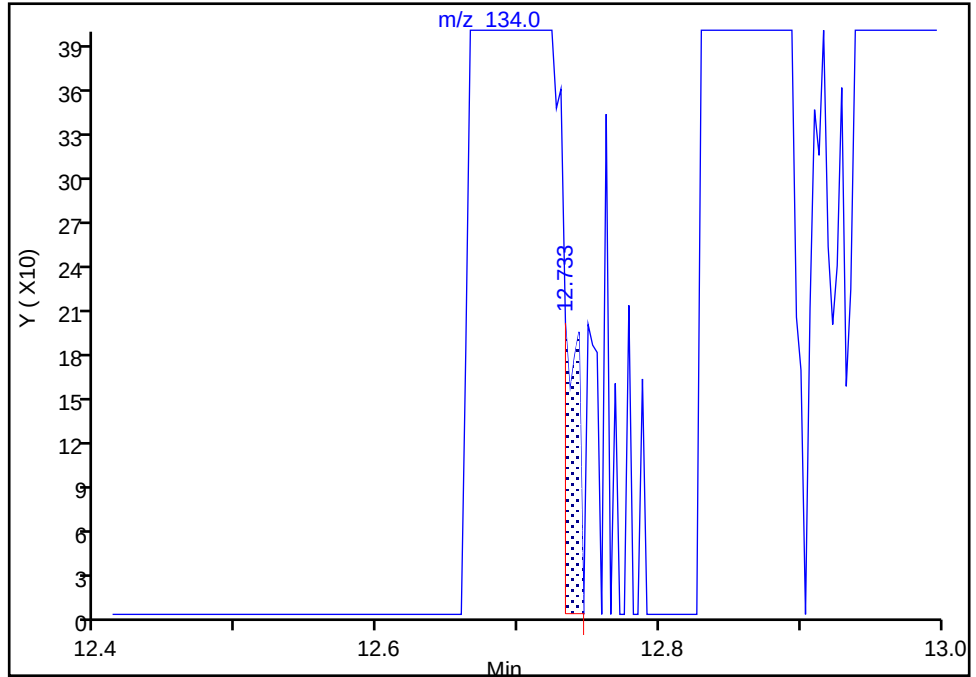
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Injection Date: 15-Jul-2024 18:49:30 Instrument ID: 9915
Lims ID: IC v20
Client ID:
Operator ID: knk41612 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

154 tert-Butylbenzene, CAS: 98-06-6

Signal: 1

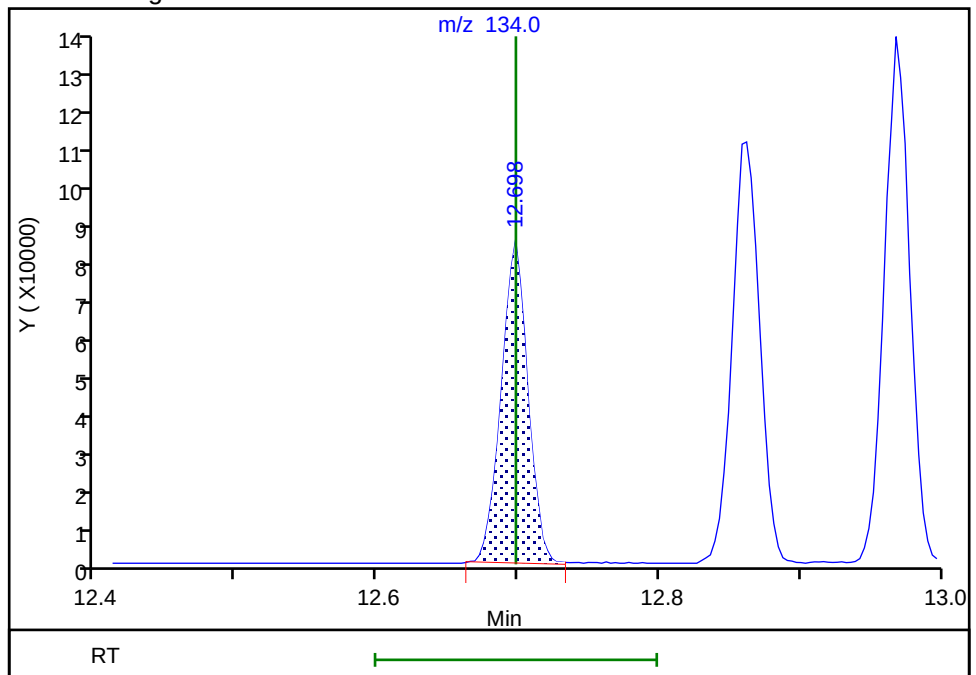
RT: 12.73
Area: 138
Amount: 0.031781
Amount Units: ug/l

Processing Integration Results



RT: 12.70
Area: 104288
Amount: 20.504281
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:54:25 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

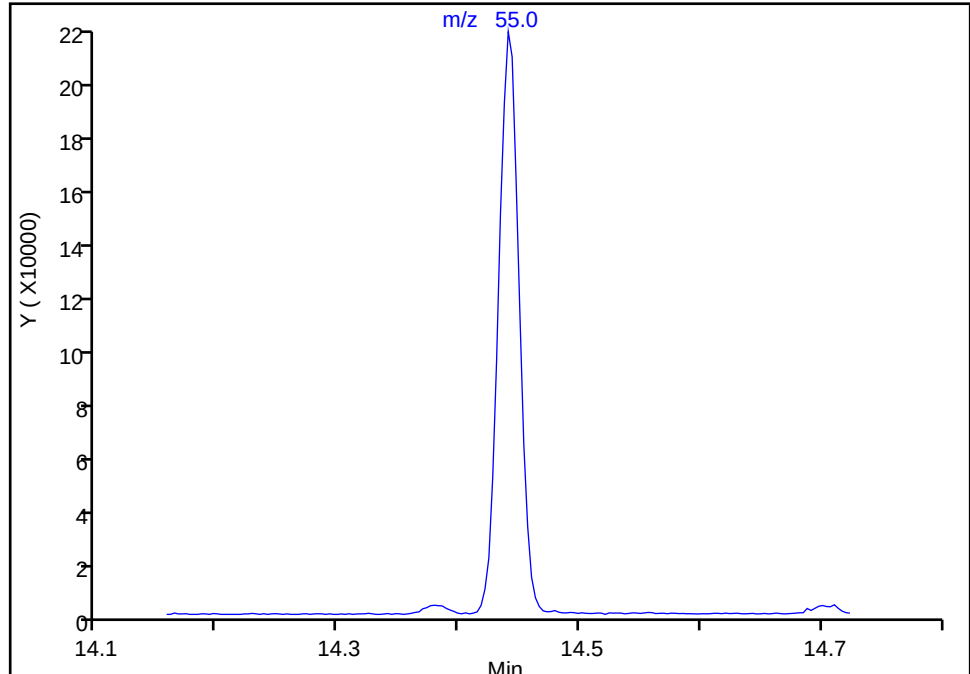
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Injection Date: 15-Jul-2024 18:49:30 Instrument ID: 9915
Lims ID: IC v20
Client ID:
Operator ID: knk41612 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

173 2-Ethylhexyl acrylate, CAS: 103-11-7

Signal: 1

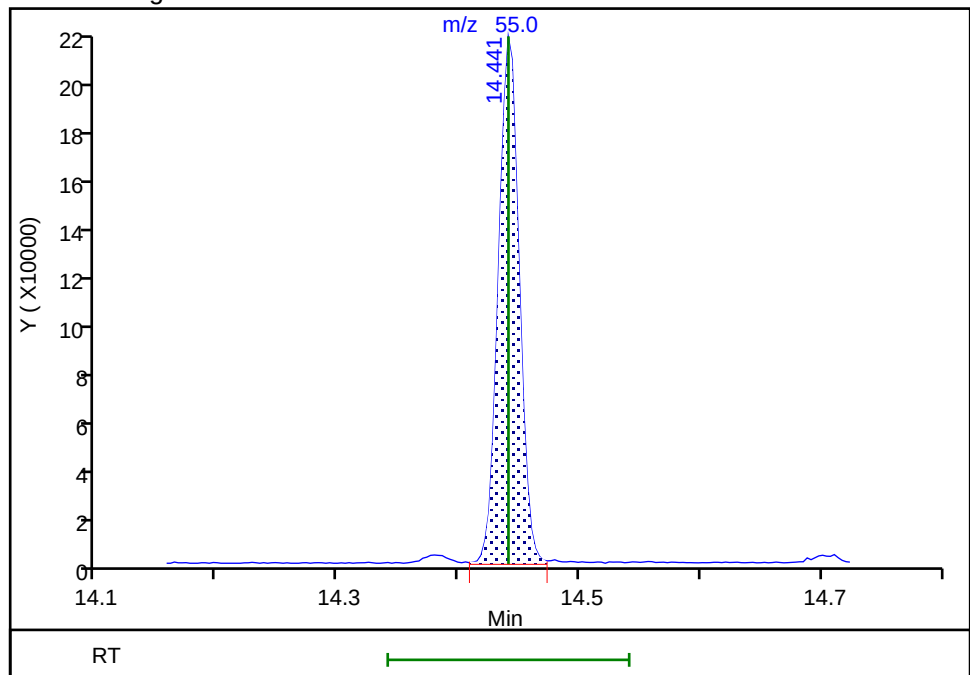
Not Detected
Expected RT: 14.44

Processing Integration Results



RT: 14.44
Area: 261735
Amount: 19.887618
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:31:28 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X15.D
 Lims ID: ICIS v50
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 15-Jul-2024 19:11:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119345-016
 Misc. Info.: ICIS V50
 Operator ID: knk41612 Instrument ID: 9915
 Sublist: chrom-MSVoa_9915a*sub91
 Method: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 16-Jul-2024 20:47:44 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1659

First Level Reviewer: DVW2

Date: 16-Jul-2024 07:48:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.946	1.946	0.000	99	513847	50.0	51.7	
4 Chloromethane	50	2.142	2.142	0.000	99	560048	50.0	50.6	
6 Butadiene	39	2.245	2.245	0.000	98	536487	50.0	50.6	
5 Vinyl chloride	62	2.255	2.255	0.000	98	556233	50.0	51.3	
8 Bromomethane	94	2.589	2.589	0.000	91	428177	50.0	50.9	
9 Chloroethane	64	2.653	2.653	0.000	99	289806	50.0	51.1	
10 Dichlorofluoromethane	67	2.898	2.898	0.000	98	893549	50.0	51.2	
11 Trichlorofluoromethane	101	2.975	2.975	0.000	97	680909	50.0	52.2	
12 Pentane	43	2.991	2.991	0.000	93	420549	50.0	46.6	
13 Ethyl ether	59	3.171	3.171	0.000	91	217796	50.0	51.1	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.284	3.284	0.000	91	408322	50.0	50.6	
16 Acrolein	56	3.332	3.332	0.000	99	898603	501.1	529.9	
18 Acetone	58	3.489	3.489	0.000	68	77300	100.0	96.4	
17 1,1-Dichloroethene	96	3.512	3.512	0.000	97	283415	50.0	47.5	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.528	3.528	0.000	93	333513	50.0	48.6	
20 Isopropyl alcohol	45	3.666	3.666	0.000	40	128002	250.0	223.6	
21 Iodomethane	142	3.705	3.705	0.000	98	604579	50.0	48.1	
22 Carbon disulfide	76	3.805	3.805	0.000	99	1046744	50.0	47.8	
24 Methyl acetate	43	3.907	3.907	0.000	98	221757	50.0	46.4	
25 3-Chloro-1-propene	41	3.936	3.936	0.000	94	380993	50.0	45.7	
27 Methylene Chloride	84	4.145	4.145	0.000	88	332550	50.0	46.0	
* 28 t-Butyl alcohol-d10 (IS)	65	4.181	4.181	0.000	96	295545	250.0	250.0	
29 2-Methyl-2-propanol	59	4.313	4.313	0.000	99	237040	250.0	222.5	
30 Acrylonitrile	53	4.438	4.438	0.000	98	311154	125.0	113.3	
31 trans-1,2-Dichloroethene	96	4.528	4.528	0.000	99	263401	50.0	47.1	
32 Methyl tert-butyl ether	73	4.557	4.557	0.000	89	1014781	50.0	46.5	
34 Hexane	57	4.972	4.972	0.000	94	315329	50.0	45.9	
35 1,1-Dichloroethane	63	5.187	5.187	0.000	96	430282	50.0	47.5	
37 Isopropyl ether	45	5.271	5.271	0.000	94	869059	50.0	46.5	
38 2-Chloro-1,3-butadiene	53	5.300	5.300	0.000	91	371753	50.0	47.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.808	5.808	0.000	98	940051	50.0	47.3	
40 2-Butanone (MEK)	43	6.004	6.004	0.000	99	371845	100.0	104.5	
42 cis-1,2-Dichloroethene	96	6.030	6.030	0.000	81	288304	50.0	47.0	
43 2,2-Dichloropropane	77	6.058	6.058	0.000	85	485913	50.0	47.1	
45 Propionitrile	54	6.081	6.081	0.000	96	274527	250.0	230.6	
46 Methyl acrylate	55	6.139	6.139	0.000	100	353650	50.0	50.7	a
47 Methacrylonitrile	67	6.296	6.296	0.000	91	335882	125.0	116.1	
48 Chlorobromomethane	128	6.354	6.354	0.000	90	147375	50.0	45.8	
49 Tetrahydrofuran	71	6.380	6.380	0.000	92	236603	250.0	222.5	
50 Chloroform	83	6.515	6.515	0.000	93	451241	50.0	44.5	
\$ 51 Dibromofluoromethane (Surr)	113	6.730	6.730	0.000	93	290785	50.0	51.0	
52 1,1,1-Trichloroethane	97	6.759	6.759	0.000	98	491480	50.0	47.3	
53 Cyclohexane	56	6.862	6.862	0.000	90	546406	50.0	47.4	
55 1,1-Dichloropropene	75	6.959	6.959	0.000	95	337921	50.0	46.3	
54 Carbon tetrachloride	117	6.965	6.965	0.000	97	393553	50.0	47.4	
56 Isobutyl alcohol	41	7.126	7.126	0.000	96	198973	625.0	527.9	
\$ 57 1,2-Dichloroethane-d4 (Surr)	102	7.187	7.187	0.000	91	69100	50.0	50.1	
58 Benzene	78	7.222	7.222	0.000	96	1035592	50.0	45.9	
59 1,2-Dichloroethane	62	7.293	7.293	0.000	98	345524	50.0	45.3	
61 Tert-amyl methyl ether	73	7.428	7.428	0.000	98	923926	50.0	47.6	
* 62 Fluorobenzene (IS)	96	7.631	7.631	0.000	99	1137735	50.0	50.0	
63 n-Heptane	43	7.653	7.653	0.000	92	336097	50.0	45.9	
65 n-Butanol	56	8.010	8.010	0.000	89	144023	625.0	564.3	
66 Trichloroethene	95	8.110	8.110	0.000	98	267224	50.0	45.6	
67 Ethyl acrylate	55	8.226	8.226	0.000	99	403851	50.0	50.8	a
68 Methylcyclohexane	83	8.425	8.425	0.000	90	556988	50.0	48.4	
69 1,2-Dichloropropane	63	8.438	8.438	0.000	95	258497	50.0	46.2	
70 2-ethoxy-2-methyl butane	87	8.460	8.460	0.000	92	427558	50.0	46.4	
71 Methyl methacrylate	69	8.528	8.528	0.000	91	212404	50.0	44.8	
72 1,4-Dioxane	88	8.531	8.531	0.000	34	47662	625.0	589.2	
73 Dibromomethane	93	8.547	8.547	0.000	97	186352	50.0	45.5	
75 Dichlorobromomethane	83	8.788	8.788	0.000	99	328854	50.0	46.4	
76 2-Nitropropane	41	9.052	9.052	0.000	99	465759	250.0	225.7	
77 2-Chloroethyl vinyl ether	63	9.155	9.155	0.000	92	101047	50.0	48.3	
78 cis-1,3-Dichloropropene	75	9.345	9.345	0.000	95	401823	50.0	45.9	
79 4-Methyl-2-pentanone (MIBK)	43	9.521	9.521	0.000	97	838641	100.0	100.1	
\$ 80 Toluene-d8 (Surr)	98	9.660	9.660	0.000	94	1114613	50.0	51.4	
81 Toluene	92	9.737	9.737	0.000	98	643749	50.0	47.7	
120 trans-1,3-Dichloropropene	75	9.994	9.994	0.000	94	356659	50.0	47.8	
121 Ethyl methacrylate	69	10.062	10.062	0.000	89	398347	50.0	47.1	
122 1,1,2-Trichloroethane	97	10.200	10.200	0.000	90	234799	50.0	47.0	
123 Tetrachloroethene	166	10.293	10.293	0.000	97	269426	50.0	47.3	
124 1,3-Dichloropropane	76	10.361	10.361	0.000	92	370411	50.0	46.5	
125 2-Hexanone	43	10.418	10.418	0.000	96	517715	100.0	101.5	
128 Chlorodibromomethane	129	10.579	10.579	0.000	89	256239	50.0	48.4	
129 Ethylene Dibromide	107	10.689	10.689	0.000	98	255777	50.0	47.6	
* 130 Chlorobenzene-d5 (IS)	117	11.129	11.129	0.000	86	856741	50.0	50.0	
132 1-Chlorohexane	91	11.139	11.139	0.000	97	328353	50.0	43.9	
133 Chlorobenzene	112	11.155	11.155	0.000	95	685489	50.0	45.8	
134 1,1,1,2-Tetrachloroethane	131	11.235	11.235	0.000	96	300150	50.0	49.1	
135 Ethylbenzene	91	11.242	11.242	0.000	98	1265090	50.0	45.9	
136 m-Xylene & p-Xylene	106	11.357	11.357	0.000	100	987937	100.0	91.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
137 n-Butyl acrylate	55	11.637	11.637	0.000	97	641635	50.0	51.3	a
138 o-Xylene	106	11.688	11.688	0.000	96	544154	50.0	46.9	
139 Styrene	104	11.701	11.701	0.000	94	810567	50.0	46.2	
140 Bromoform	173	11.856	11.856	0.000	96	183015	50.0	47.0	
142 Isopropylbenzene	105	11.991	11.991	0.000	95	1387801	50.0	47.5	
141 Cyclohexanone	55	12.061	12.061	0.000	92	243605	625.0	638.9	
\$ 143 4-Bromofluorobenzene (Surr)	95	12.132	12.132	0.000	90	419387	50.0	48.9	
145 1,1,2,2-Tetrachloroethane	83	12.232	12.232	0.000	94	410940	50.0	46.2	
146 Bromobenzene	156	12.248	12.248	0.000	93	312323	50.0	46.2	
147 trans-1,4-Dichloro-2-butene	53	12.258	12.258	0.000	95	273110	125.0	119.5	
148 1,2,3-Trichloropropane	110	12.280	12.280	0.000	84	121617	50.0	45.9	
149 N-Propylbenzene	91	12.319	12.319	0.000	99	1556187	50.0	46.9	
150 2-Chlorotoluene	126	12.396	12.396	0.000	97	322751	50.0	46.7	
151 1,3,5-Trimethylbenzene	105	12.457	12.457	0.000	94	1261785	50.0	48.2	
153 4-Chlorotoluene	126	12.486	12.486	0.000	97	304116	50.0	45.8	
154 tert-Butylbenzene	134	12.698	12.698	0.000	93	242779	50.0	50.5	
156 1,2,4-Trimethylbenzene	105	12.740	12.740	0.000	97	1253589	50.0	47.2	
157 sec-Butylbenzene	105	12.862	12.862	0.000	94	1634520	50.0	49.6	
158 1,3-Dichlorobenzene	146	12.959	12.959	0.000	98	623621	50.0	46.4	
159 4-Isopropyltoluene	119	12.968	12.968	0.000	97	1411794	50.0	48.6	
* 160 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	487038	50.0	50.0	
161 1,4-Dichlorobenzene	146	13.029	13.029	0.000	95	619689	50.0	45.3	
162 1,2,3-Trimethylbenzene	105	13.045	13.045	0.000	98	1364319	50.0	47.6	
163 Benzyl chloride	91	13.106	13.106	0.000	98	832320	50.0	47.9	
164 1,3-Diethylbenzene	119	13.171	13.171	0.000	95	811994	50.0	47.7	
165 p-Diethylbenzene	119	13.241	13.241	0.000	94	847246	50.0	47.6	
166 n-Butylbenzene	92	13.261	13.261	0.000	98	673514	50.0	47.4	
167 1,2-Dichlorobenzene	146	13.293	13.293	0.000	99	655351	50.0	45.7	
168 o-diethylbenzene	119	13.312	13.312	0.000	95	696256	50.0	48.8	
170 1,2-Dibromo-3-Chloropropane	75	13.827	13.827	0.000	87	106567	50.0	45.8	
171 1,3,5-Trichlorobenzene	180	13.958	13.958	0.000	98	545915	50.0	47.2	
172 1,2,4-Trichlorobenzene	180	14.383	14.383	0.000	94	562456	50.0	48.2	
173 2-Ethylhexyl acrylate	55	14.441	14.441	0.000	81	696581	50.0	56.0	a
174 Hexachlorobutadiene	225	14.466	14.466	0.000	98	213689	50.0	49.8	
175 Naphthalene	128	14.563	14.563	0.000	97	1946327	50.0	48.2	
176 1,2,3-Trichlorobenzene	180	14.704	14.704	0.000	96	592822	50.0	48.5	
177 2-Methylnaphthalene	142	15.319	15.319	0.000	92	1244764	50.0	52.2	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00192	Amount Added: 5.00	Units: uL	
MSV_CCV_CYC_00009	Amount Added: 10.00	Units: uL	
MSV_CCV_VOC#3_00188	Amount Added: 4.00	Units: uL	
MSV_CCV_2CEVE_00184	Amount Added: 5.00	Units: uL	
MSV_CCV_GASES_00819	Amount Added: 2.50	Units: uL	
MSV_CCV_EE_00007	Amount Added: 5.00	Units: uL	
MSV_CCV_OH_Sp_00012	Amount Added: 5.00	Units: uL	
MSV_HP23_ISSS_00014	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 16-Jul-2024 20:47:45

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X15.D

Injection Date: 15-Jul-2024 19:11:30

Instrument ID: 9915

Operator ID: knk41612

Lims ID: ICIS v50

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

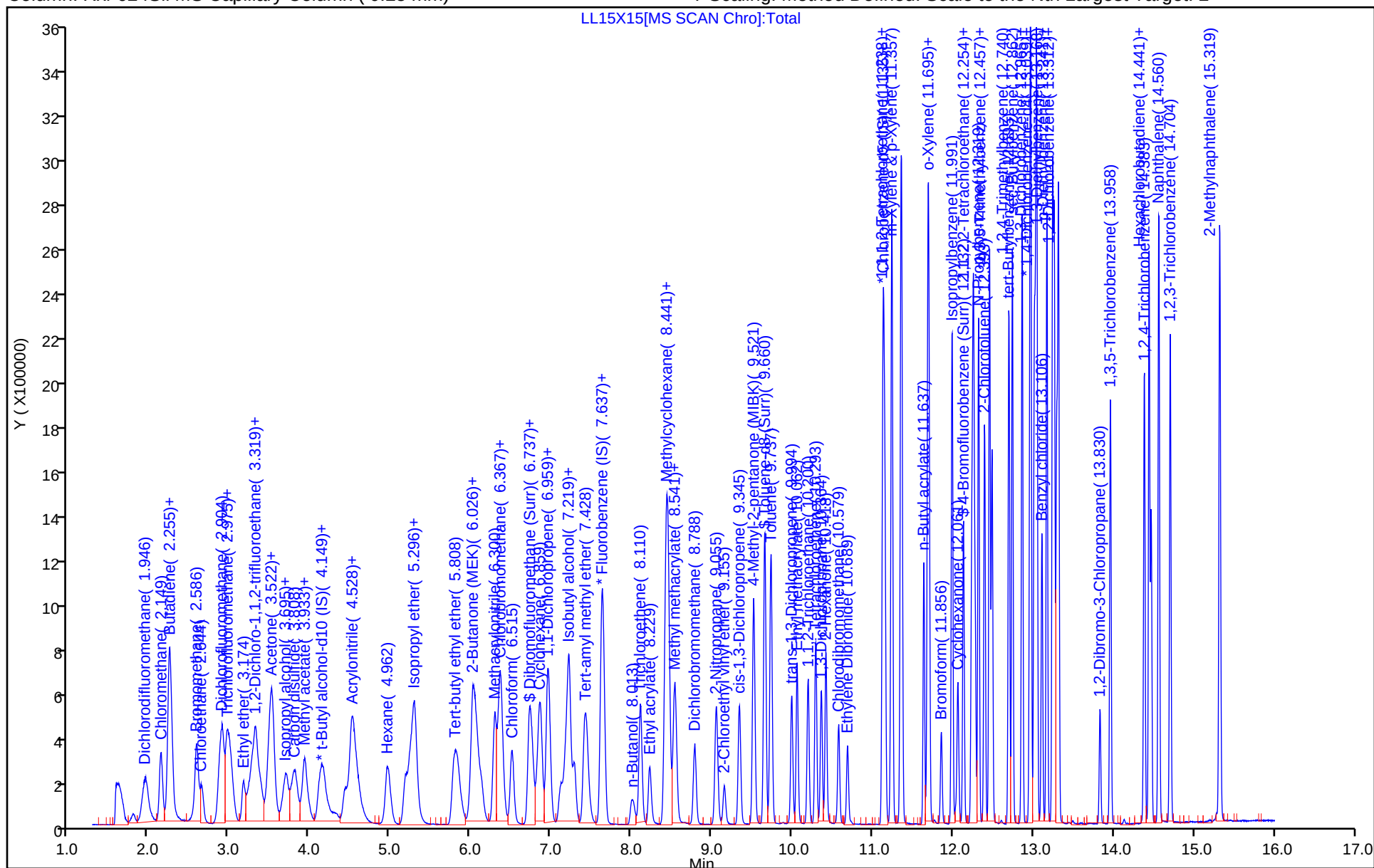
ALS Bottle#: 15

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

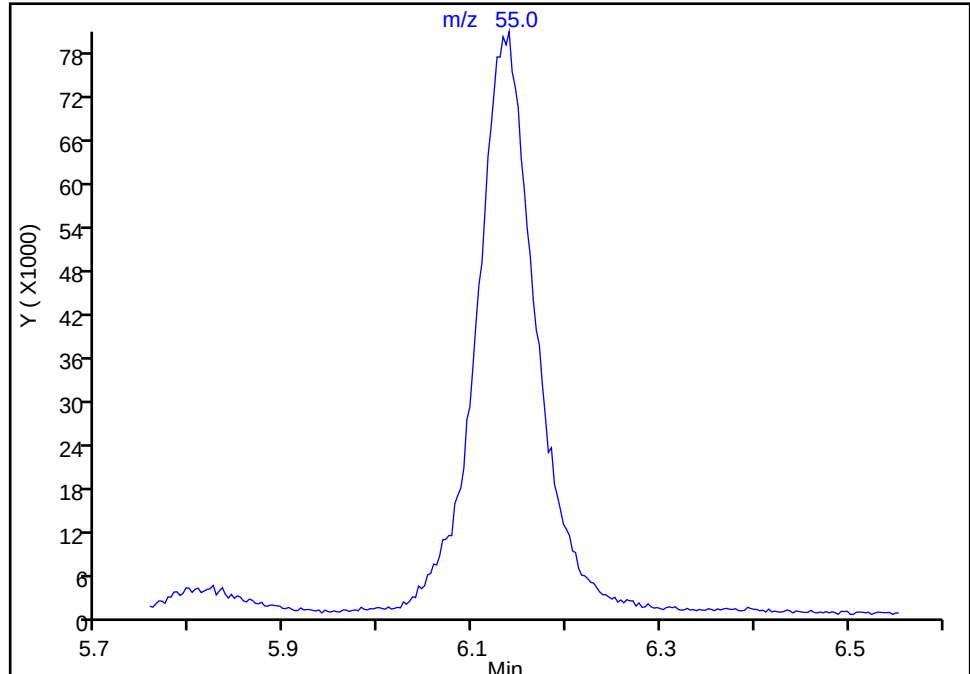
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Injection Date: 15-Jul-2024 19:11:30 Instrument ID: 9915
Lims ID: ICIS v50
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

46 Methyl acrylate, CAS: 96-33-3

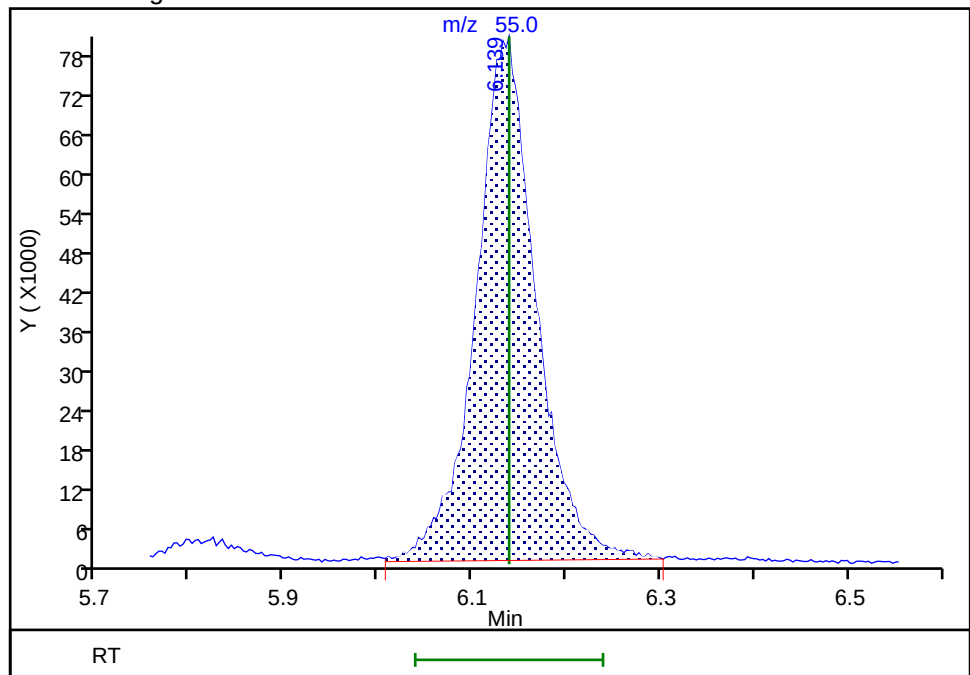
Signal: 1

Not Detected
Expected RT: 6.14

Processing Integration Results



Manual Integration Results



RT: 6.14
Area: 353650
Amount: 50.745250
Amount Units: ug/l

Eurofins Lancaster Laboratories Environment Testing, LLC

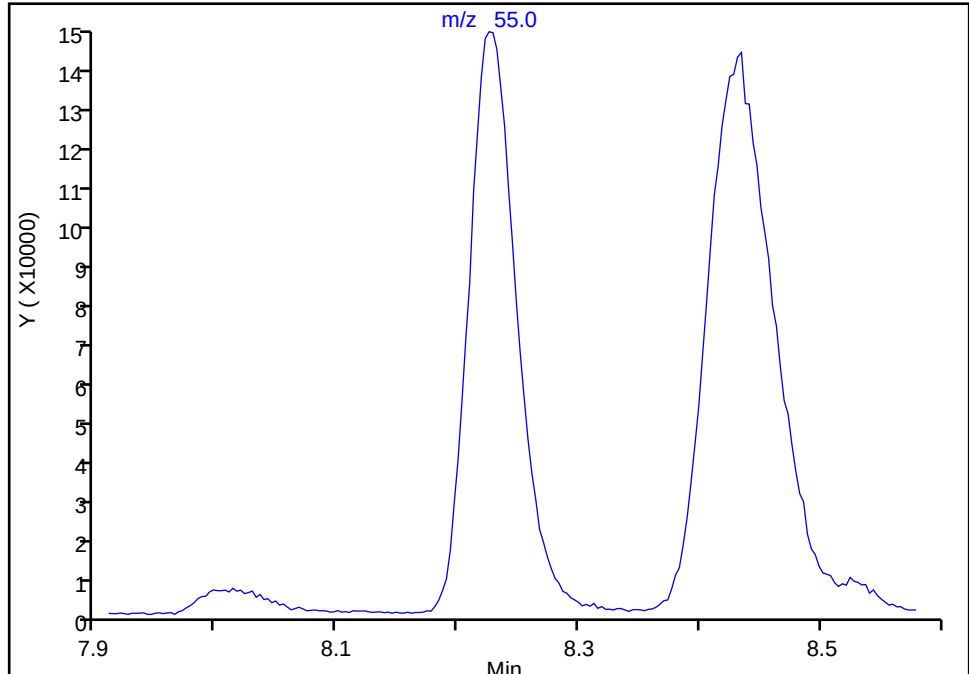
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X15.D
Injection Date: 15-Jul-2024 19:11:30 Instrument ID: 9915
Lims ID: ICIS v50
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

67 Ethyl acrylate, CAS: 140-88-5

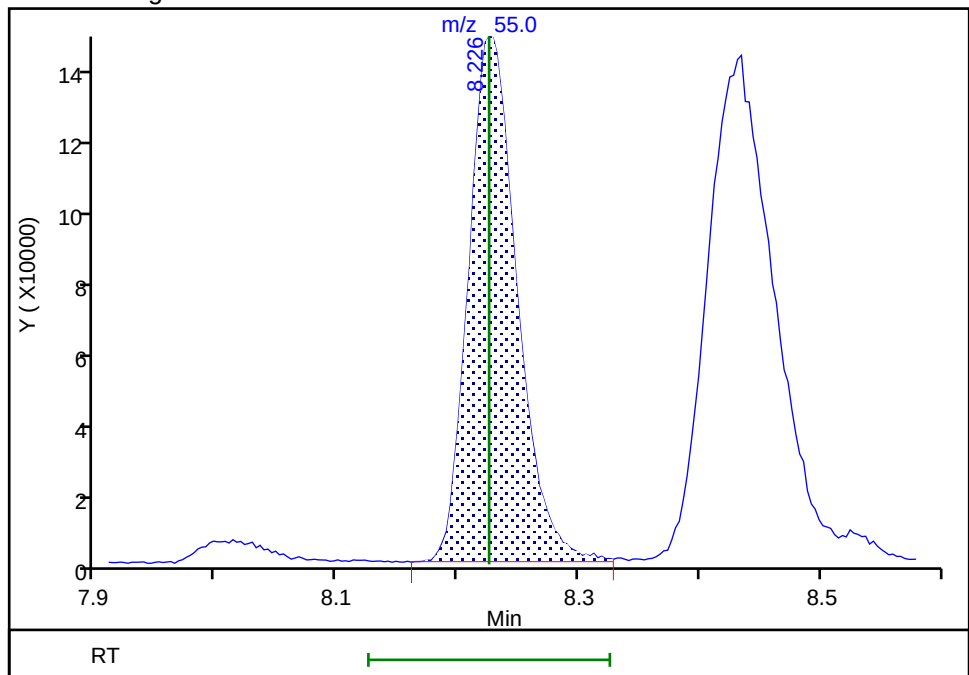
Signal: 1

Not Detected
Expected RT: 8.23

Processing Integration Results



Manual Integration Results



RT: 8.23
Area: 403851
Amount: 50.794510
Amount Units: ug/l

Reviewer: DVW2, 16-Jul-2024 08:29:45 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

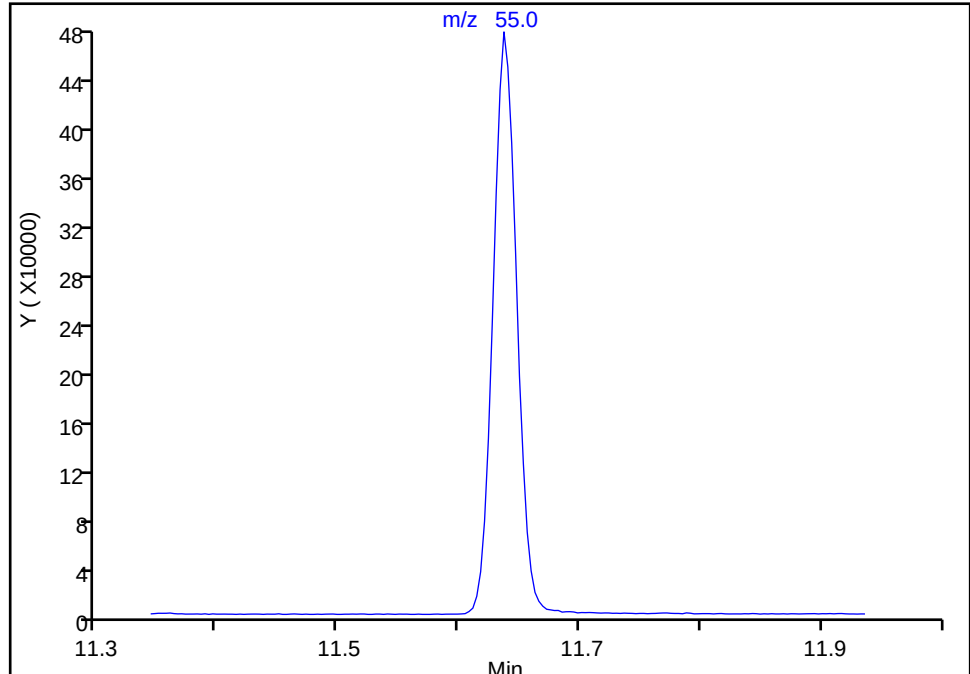
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X15.D
Injection Date: 15-Jul-2024 19:11:30 Instrument ID: 9915
Lims ID: ICIS v50
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

137 n-Butyl acrylate, CAS: 141-32-2

Signal: 1

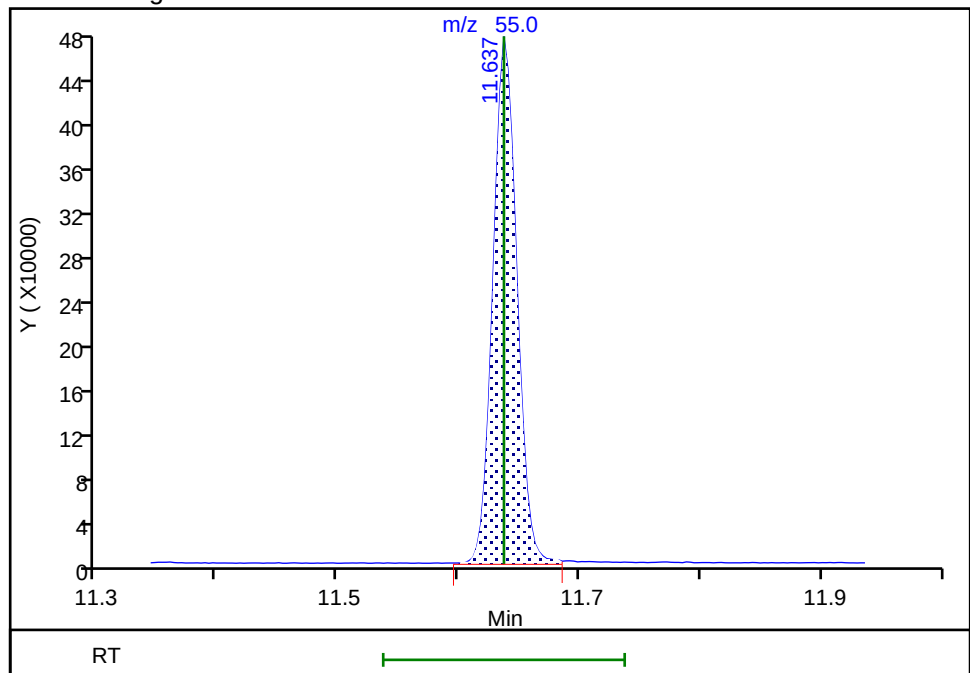
Not Detected
Expected RT: 11.64

Processing Integration Results



RT: 11.64
Area: 641635
Amount: 51.332848
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:29:49 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

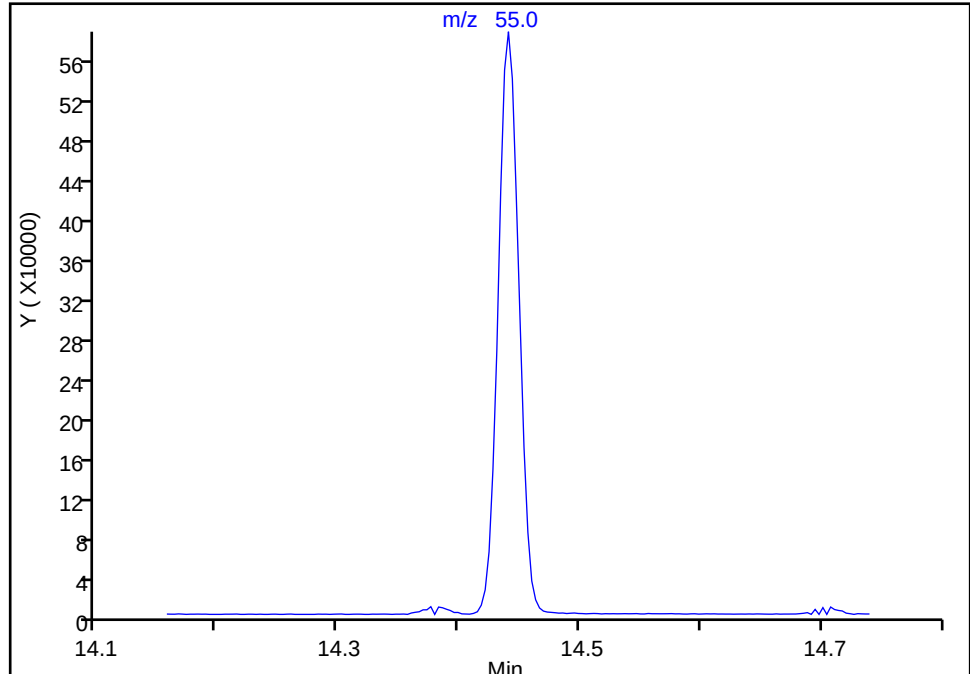
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Injection Date: 15-Jul-2024 19:11:30 Instrument ID: 9915
Lims ID: ICIS v50
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

173 2-Ethylhexyl acrylate, CAS: 103-11-7

Signal: 1

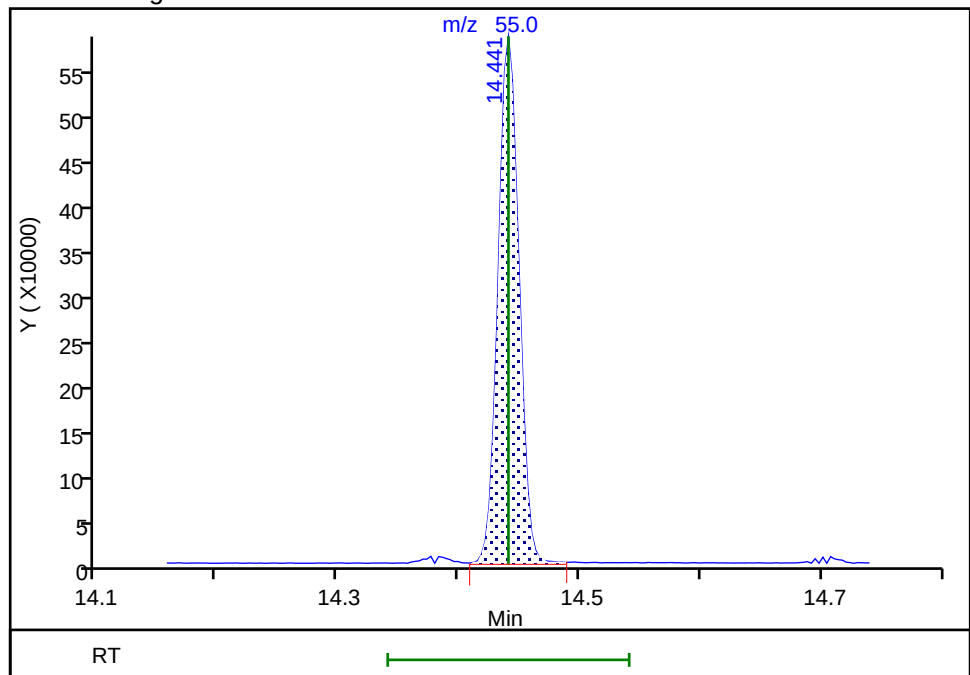
Not Detected
Expected RT: 14.44

Processing Integration Results



RT: 14.44
Area: 696581
Amount: 56.024039
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:29:52 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X16.D
 Lims ID: IC v100
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 15-Jul-2024 19:34:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119345-017
 Misc. Info.: IC V100
 Operator ID: knk41612 Instrument ID: 9915
 Sublist: chrom-MSVoa_9915a*sub91
 Method: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 16-Jul-2024 20:47:53 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1659

First Level Reviewer: DVW2

Date: 16-Jul-2024 07:55:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.943	1.946	-0.003	100	1020737	100.0	102.9	
4 Chloromethane	50	2.132	2.142	-0.010	99	1110744	100.0	100.5	
6 Butadiene	39	2.238	2.245	-0.007	94	1049022	100.0	99.0	
5 Vinyl chloride	62	2.245	2.255	-0.010	98	1096578	100.0	101.4	
8 Bromomethane	94	2.576	2.589	-0.013	90	855890	100.0	102.0	
9 Chloroethane	64	2.637	2.653	-0.016	100	567882	100.0	100.3	
10 Dichlorofluoromethane	67	2.885	2.898	-0.013	98	1769063	100.0	101.5	
11 Trichlorofluoromethane	101	2.955	2.975	-0.020	97	1364400	100.0	104.9	
12 Pentane	43	2.994	2.991	0.003	95	923540	100.0	102.5	
13 Ethyl ether	59	3.161	3.171	-0.010	91	428251	100.0	100.7	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.280	3.284	-0.004	91	799376	100.0	99.2	
16 Acrolein	56	3.322	3.332	-0.010	99	1752634	1002.2	1015.6	
18 Acetone	58	3.476	3.489	-0.013	100	150483	200.0	184.4	
17 1,1-Dichloroethene	96	3.492	3.512	-0.020	97	608315	100.0	102.1	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.521	3.528	-0.007	94	715582	100.0	104.4	
20 Isopropyl alcohol	45	3.660	3.666	-0.006	30	270500	500.0	464.4	M
21 Iodomethane	142	3.689	3.705	-0.016	98	1297970	100.0	103.5	
22 Carbon disulfide	76	3.795	3.805	-0.010	99	2317407	100.0	106.1	
24 Methyl acetate	43	3.894	3.907	-0.013	98	498467	100.0	104.4	
25 3-Chloro-1-propene	41	3.920	3.936	-0.016	89	837942	100.0	100.8	
27 Methylene Chloride	84	4.139	4.145	-0.006	89	724522	100.0	100.3	
* 28 t-Butyl alcohol-d10 (IS)	65	4.177	4.181	-0.004	97	300753	250.0	250.0	
29 2-Methyl-2-propanol	59	4.299	4.313	-0.014	30	536225	500.0	494.6	M
30 Acrylonitrile	53	4.425	4.438	-0.013	99	711875	250.0	259.7	
31 trans-1,2-Dichloroethene	96	4.515	4.528	-0.013	99	562204	100.0	100.7	
32 Methyl tert-butyl ether	73	4.547	4.557	-0.010	94	2231046	100.0	102.5	
34 Hexane	57	4.949	4.972	-0.023	93	704337	100.0	102.7	
35 1,1-Dichloroethane	63	5.177	5.187	-0.010	96	923206	100.0	102.2	
37 Isopropyl ether	45	5.254	5.271	-0.017	94	1927203	100.0	103.3	
38 2-Chloro-1,3-butadiene	53	5.293	5.300	-0.007	91	798024	100.0	101.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.807	5.808	-0.001	97	2071523	100.0	104.4	
40 2-Butanone (MEK)	43	5.994	6.004	-0.010	98	755386	200.0	212.7	
42 cis-1,2-Dichloroethene	96	6.016	6.030	-0.014	80	618314	100.0	101.1	
43 2,2-Dichloropropane	77	6.052	6.058	-0.006	89	1056858	100.0	102.6	
45 Propionitrile	54	6.078	6.081	-0.003	96	631011	500.0	521.0	
46 Methyl acrylate	55	6.129	6.139	-0.010	100	745214	100.0	107.1	a
S 41 1,2-Dichloroethene, Total	100				0			201.8	
47 Methacrylonitrile	67	6.290	6.296	-0.006	91	762429	250.0	264.0	
48 Chlorobromomethane	128	6.351	6.354	-0.003	92	318011	100.0	99.0	
49 Tetrahydrofuran	71	6.370	6.380	-0.010	92	530289	500.0	490.1	
50 Chloroform	83	6.508	6.515	-0.007	93	969583	100.0	95.7	
\$ 51 Dibromofluoromethane (Surr)	113	6.724	6.730	-0.006	64	286260	50.0	50.3	
52 1,1,1-Trichloroethane	97	6.753	6.759	-0.006	98	1080890	100.0	104.2	
53 Cyclohexane	56	6.859	6.862	-0.003	90	1191763	100.0	103.5	
55 1,1-Dichloropropene	75	6.955	6.959	-0.004	97	737524	100.0	101.3	
54 Carbon tetrachloride	117	6.962	6.965	-0.003	96	875320	100.0	105.7	
56 Isobutyl alcohol	41	7.126	7.126	0.000	94	450807	1250.0	1175.3	
\$ 57 1,2-Dichloroethane-d4 (Surr)	102	7.180	7.187	-0.007	83	69061	50.0	50.2	
58 Benzene	78	7.219	7.222	-0.003	96	2290705	100.0	101.7	
59 1,2-Dichloroethane	62	7.283	7.293	-0.010	98	775695	100.0	101.8	
61 Tert-amyl methyl ether	73	7.428	7.428	0.000	99	2065395	100.0	106.6	
* 62 Fluorobenzene (IS)	96	7.624	7.631	-0.007	99	1135563	50.0	50.0	
63 n-Heptane	43	7.647	7.653	-0.006	92	763596	100.0	104.5	
65 n-Butanol	56	8.000	8.010	-0.010	88	349644	1250.0	1346.1	
66 Trichloroethene	95	8.106	8.110	-0.004	99	602362	100.0	103.1	
67 Ethyl acrylate	55	8.222	8.226	-0.004	99	874876	100.0	110.2	a
68 Methylcyclohexane	83	8.425	8.425	0.000	90	1242590	100.0	108.3	
69 1,2-Dichloropropane	63	8.434	8.438	-0.004	88	581447	100.0	104.1	
70 2-ethoxy-2-methyl butane	87	8.457	8.460	-0.003	91	990648	100.0	107.8	
71 Methyl methacrylate	69	8.528	8.528	0.000	92	498295	100.0	105.2	
72 1,4-Dioxane	88	8.540	8.531	0.009	68	108666	1250.0	1320.1	
73 Dibromomethane	93	8.547	8.547	0.000	97	419094	100.0	102.6	
75 Dichlorobromomethane	83	8.785	8.788	-0.003	100	759589	100.0	107.3	
76 2-Nitropropane	41	9.055	9.052	0.003	97	1106056	500.0	526.8	
77 2-Chloroethyl vinyl ether	63	9.151	9.155	-0.004	92	223368	100.0	106.9	
78 cis-1,3-Dichloropropene	75	9.341	9.345	-0.003	96	943830	100.0	107.9	
79 4-Methyl-2-pentanone (MIBK)	43	9.521	9.521	0.000	97	1697464	200.0	203.0	
\$ 80 Toluene-d8 (Surr)	98	9.659	9.660	-0.001	94	1157670	50.0	49.8	
81 Toluene	92	9.733	9.737	-0.004	98	1482173	100.0	102.5	
120 trans-1,3-Dichloropropene	75	9.994	9.994	0.000	93	859730	100.0	107.5	
S 119 1,3-Dichloropropene, Total	100				0			215.4	
121 Ethyl methacrylate	69	10.061	10.062	-0.001	89	940339	100.0	103.9	
122 1,1,2-Trichloroethane	97	10.196	10.200	-0.004	90	552271	100.0	103.1	
123 Tetrachloroethene	166	10.293	10.293	0.000	97	618432	100.0	101.3	
124 1,3-Dichloropropane	76	10.360	10.361	-0.001	92	872390	100.0	102.3	
125 2-Hexanone	43	10.418	10.418	0.000	96	1069728	200.0	195.7	
128 Chlorodibromomethane	129	10.576	10.579	-0.003	90	624633	100.0	110.1	
129 Ethylene Dibromide	107	10.685	10.689	-0.003	99	595318	100.0	103.5	
* 130 Chlorobenzene-d5 (IS)	117	11.126	11.129	-0.003	85	917583	50.0	50.0	
132 1-Chlorohexane	91	11.138	11.139	-0.001	97	763396	100.0	95.4	
133 Chlorobenzene	112	11.154	11.155	-0.001	95	1609542	100.0	100.3	
134 1,1,1,2-Tetrachloroethane	131	11.235	11.235	0.000	96	692710	100.0	105.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Ethylbenzene	91	11.241	11.242	-0.001	98	2952359	100.0	99.9	
S 131 Xylenes, Total	106				0			301.2	
136 m-Xylene & p-Xylene	106	11.357	11.357	0.000	100	2310900	200.0	200.5	
137 n-Butyl acrylate	55	11.637	11.637	0.000	96	1352429	100.0	101.0	a
138 o-Xylene	106	11.688	11.688	0.000	96	1251521	100.0	100.7	
139 Styrene	104	11.701	11.701	0.000	94	1882420	100.0	100.3	
140 Bromoform	173	11.852	11.856	-0.004	96	448928	100.0	107.7	
142 Isopropylbenzene	105	11.990	11.991	-0.001	95	3207098	100.0	102.5	
141 Cyclohexanone	55	12.061	12.061	0.000	93	495867	1250.1	1278.0	
\$ 143 4-Bromofluorobenzene (Surr)	95	12.132	12.132	0.000	89	440157	50.0	47.9	
145 1,1,2,2-Tetrachloroethane	83	12.232	12.232	0.000	95	969208	100.0	105.4	
146 Bromobenzene	156	12.248	12.248	0.000	97	728274	100.0	104.3	
147 trans-1,4-Dichloro-2-butene	53	12.257	12.258	-0.001	88	643752	250.0	272.4	
148 1,2,3-Trichloropropane	110	12.277	12.280	-0.003	86	279242	100.0	101.8	
149 N-Propylbenzene	91	12.318	12.319	-0.001	99	3599245	100.0	105.0	
150 2-Chlorotoluene	126	12.392	12.396	-0.004	97	751927	100.0	105.4	
151 1,3,5-Trimethylbenzene	105	12.457	12.457	0.000	94	2945720	100.0	108.8	
153 4-Chlorotoluene	126	12.486	12.486	0.000	97	700453	100.0	102.1	
154 tert-Butylbenzene	134	12.695	12.698	-0.003	93	569792	100.0	114.7	
156 1,2,4-Trimethylbenzene	105	12.740	12.740	0.000	98	2922977	100.0	106.5	
157 sec-Butylbenzene	105	12.862	12.862	0.000	94	3814975	100.0	112.1	
158 1,3-Dichlorobenzene	146	12.958	12.959	0.000	98	1411425	100.0	101.6	
159 4-Isopropyltoluene	119	12.968	12.968	0.000	97	3289461	100.0	109.6	
* 160 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	94	503428	50.0	50.0	
161 1,4-Dichlorobenzene	146	13.032	13.029	0.003	96	1417344	100.0	100.2	
162 1,2,3-Trimethylbenzene	105	13.045	13.045	0.000	99	3186579	100.0	107.5	
163 Benzyl chloride	91	13.106	13.106	0.000	98	1966629	100.0	109.6	
164 1,3-Diethylbenzene	119	13.170	13.171	-0.001	95	1873963	100.0	106.5	
165 p-Diethylbenzene	119	13.241	13.241	0.000	94	1925104	100.0	104.7	
166 n-Butylbenzene	92	13.260	13.261	-0.001	97	1537550	100.0	104.7	
167 1,2-Dichlorobenzene	146	13.293	13.293	0.000	98	1499959	100.0	101.2	
168 o-diethylbenzene	119	13.312	13.312	0.000	95	1617709	100.0	109.7	
170 1,2-Dibromo-3-Chloropropane	75	13.830	13.827	0.003	91	254526	100.0	105.9	
171 1,3,5-Trichlorobenzene	180	13.958	13.958	0.000	98	1247010	100.0	104.4	
172 1,2,4-Trichlorobenzene	180	14.383	14.383	0.000	94	1263070	100.0	104.6	
173 2-Ethylhexyl acrylate	55	14.441	14.441	-0.001	81	1447618	100.0	112.6	a
174 Hexachlorobutadiene	225	14.466	14.466	0.000	98	497105	100.0	112.1	
175 Naphthalene	128	14.563	14.563	0.000	96	4395279	100.0	105.2	
176 1,2,3-Trichlorobenzene	180	14.704	14.704	0.000	96	1341929	100.0	106.3	
177 2-Methylnaphthalene	142	15.318	15.319	-0.001	92	2814024	100.0	114.2	
S 188 Total Diethylbenzene	1				0			320.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00192	Amount Added: 5.00	Units: uL	
MSV_CCV_CYC_00009	Amount Added: 10.00	Units: uL	
MSV_CCV_VOC#3_00188	Amount Added: 4.00	Units: uL	
MSV_CCV_2CEVE_00184	Amount Added: 5.00	Units: uL	
MSV_CCV_GASES_00819	Amount Added: 2.50	Units: uL	
MSV_CCV_EE_00007	Amount Added: 5.00	Units: uL	
MSV_CCV_OH_Sp_00012	Amount Added: 5.00	Units: uL	
MSV_HP23_ISSS_00014	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 16-Jul-2024 20:47:54

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X16.D

Injection Date: 15-Jul-2024 19:34:30

Instrument ID: 9915

Operator ID: knk41612

Lims ID: IC v100

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

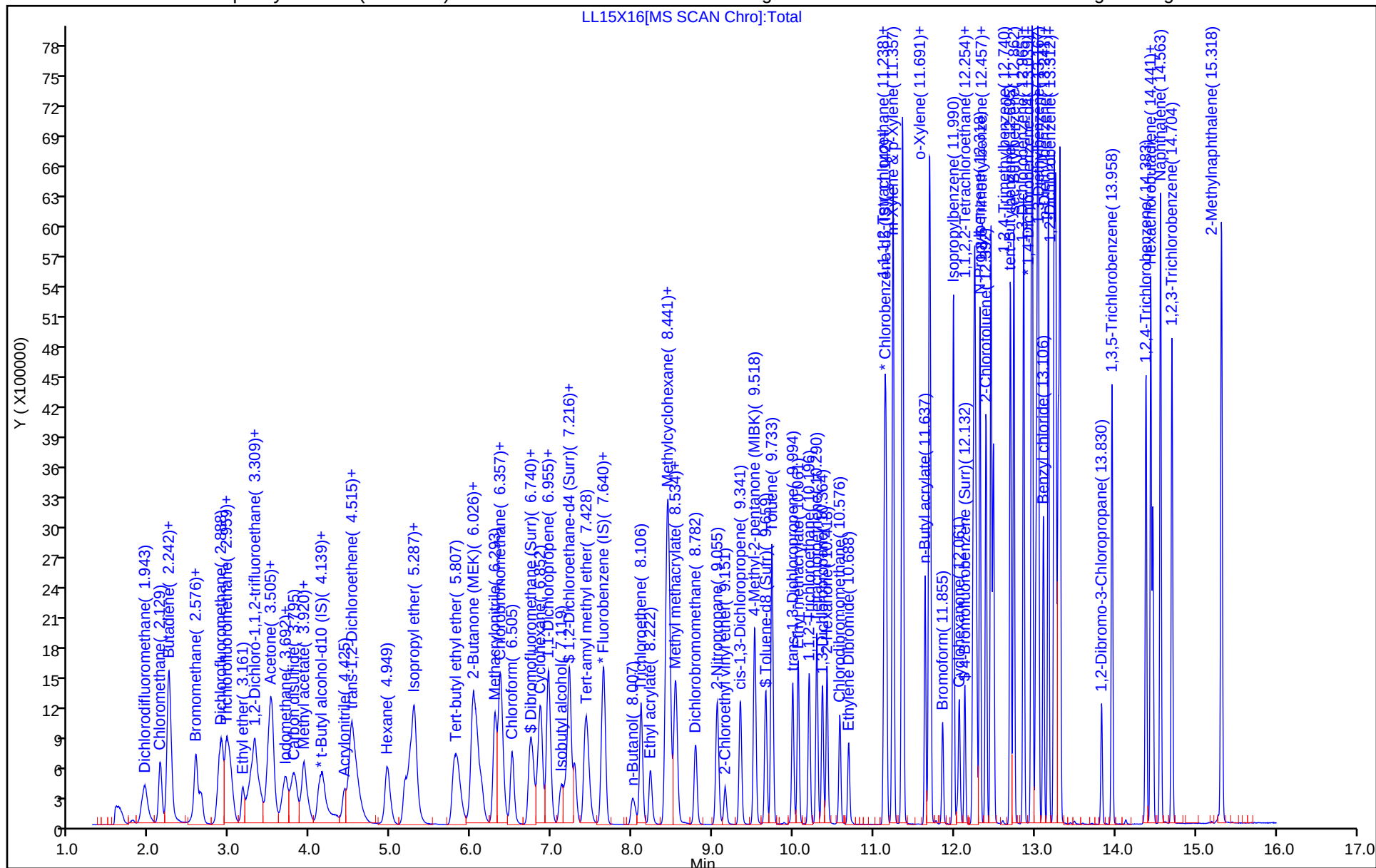
ALS Bottle#: 16

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

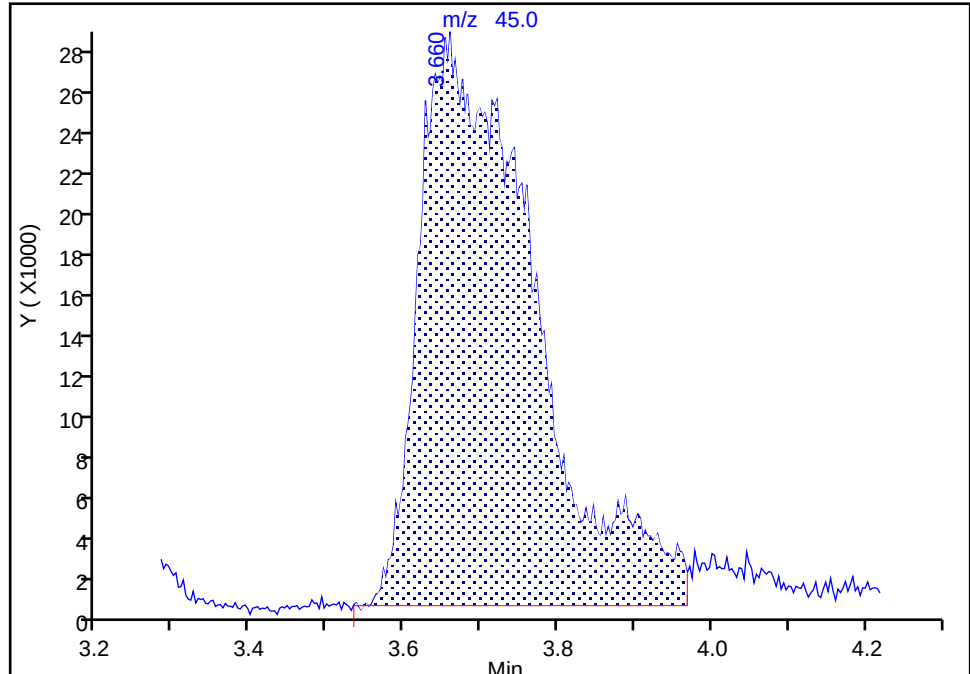
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X16.D
Injection Date: 15-Jul-2024 19:34:30 Instrument ID: 9915
Lims ID: IC v100
Client ID:
Operator ID: knk41612 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

20 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

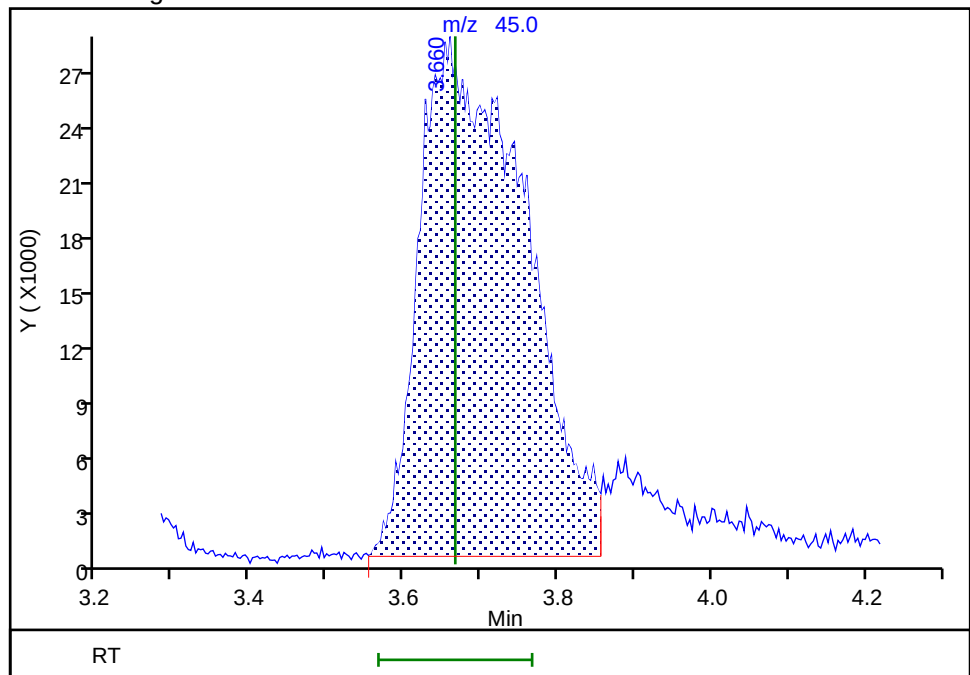
RT: 3.66
Area: 292655
Amount: 497.0230
Amount Units: ug/l

Processing Integration Results



RT: 3.66
Area: 270500
Amount: 464.3890
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 16-Jul-2024 20:14:34 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

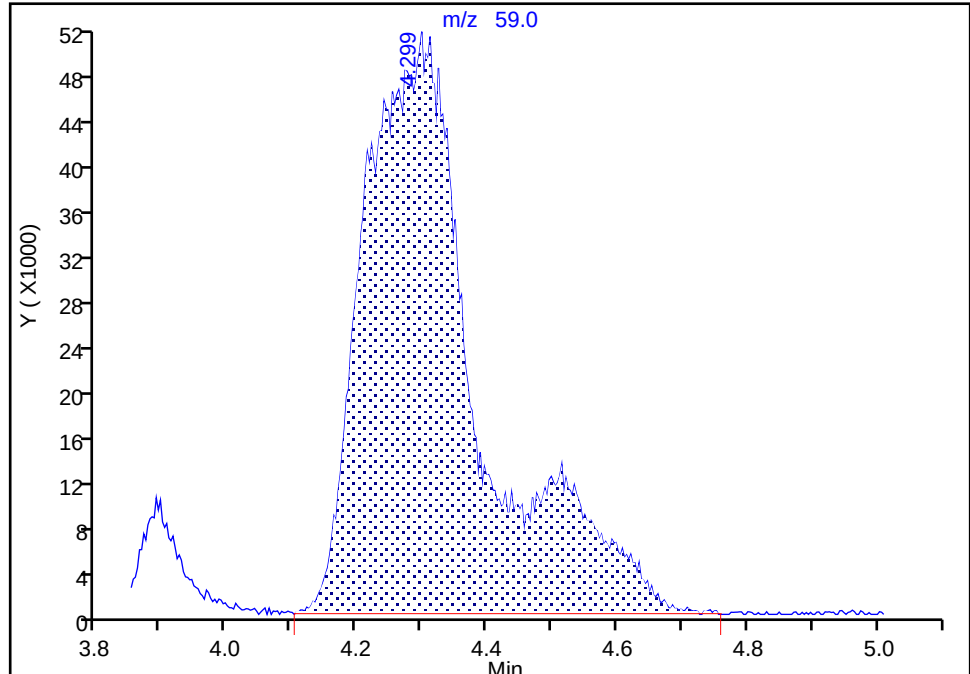
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X16.D
Injection Date: 15-Jul-2024 19:34:30 Instrument ID: 9915
Lims ID: IC v100
Client ID:
Operator ID: knk41612 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

29 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

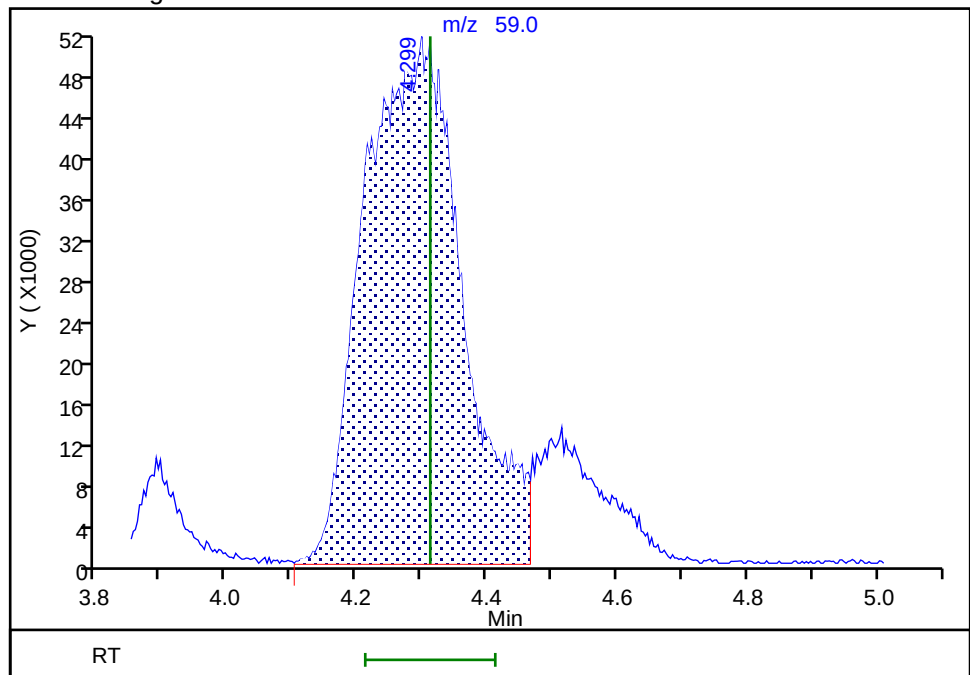
RT: 4.30
Area: 627275
Amount: 543.7849
Amount Units: ug/l

Processing Integration Results



RT: 4.30
Area: 536225
Amount: 494.5500
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:55:50 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

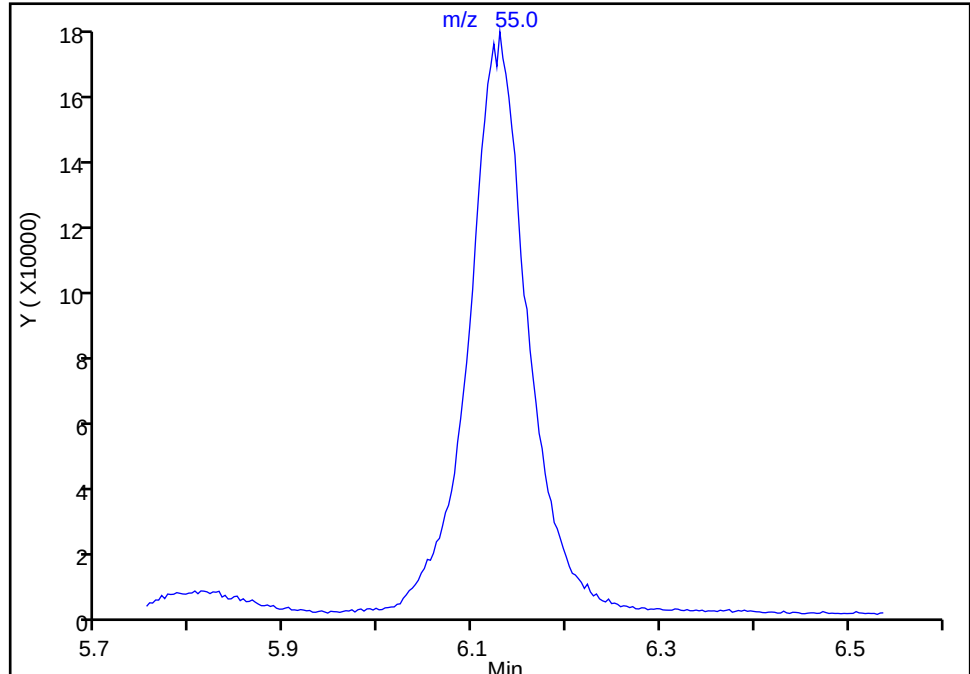
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X16.D
Injection Date: 15-Jul-2024 19:34:30 Instrument ID: 9915
Lims ID: IC v100
Client ID:
Operator ID: knk41612 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

46 Methyl acrylate, CAS: 96-33-3

Signal: 1

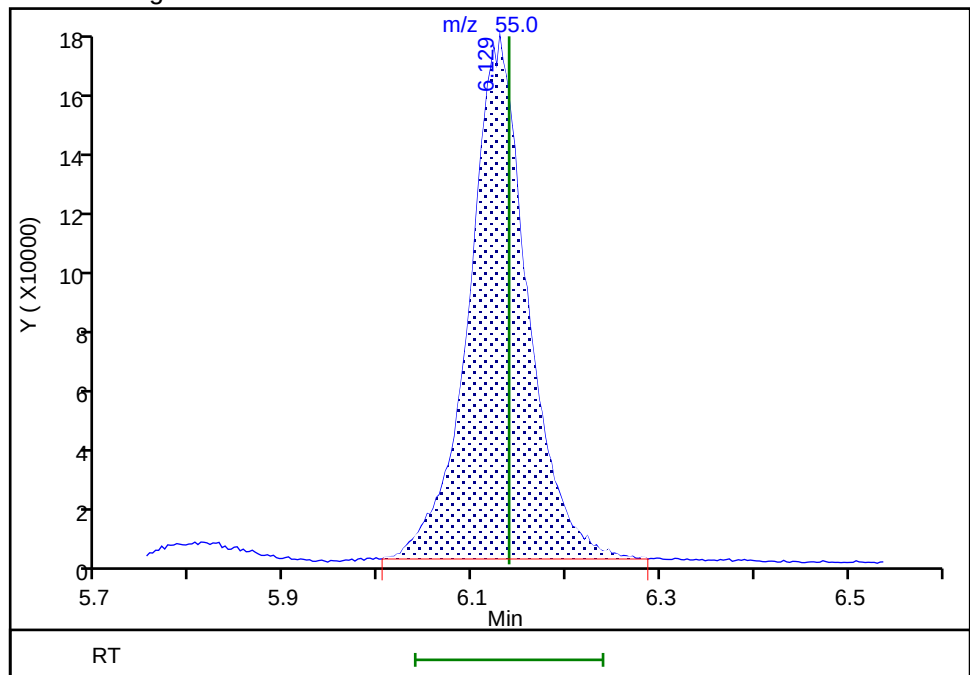
Not Detected
Expected RT: 6.14

Processing Integration Results



RT: 6.13
Area: 745214
Amount: 107.1353
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:31:51 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

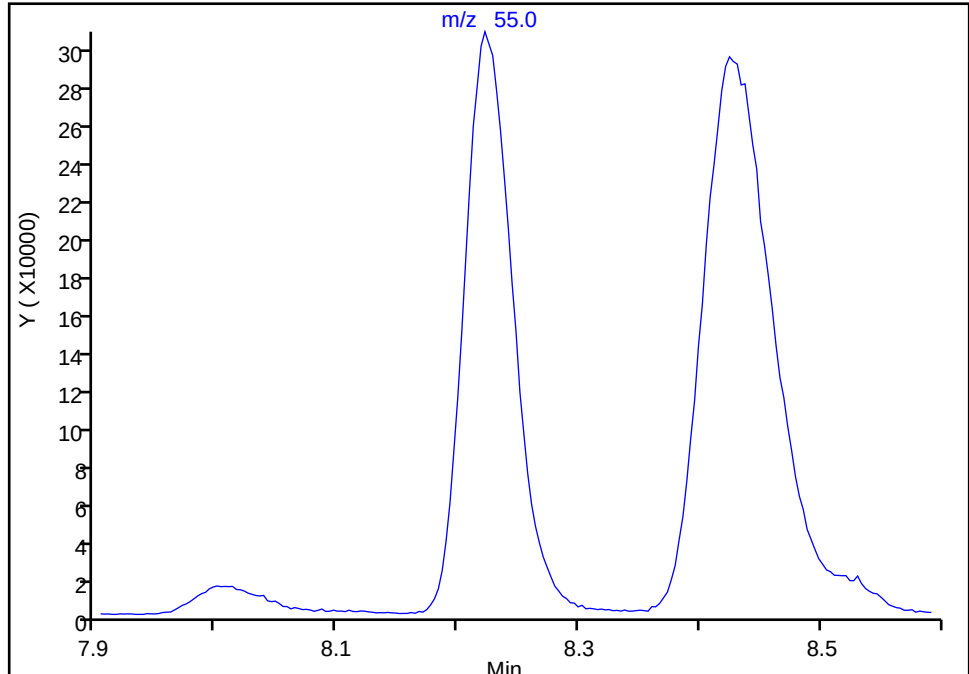
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Injection Date: 15-Jul-2024 19:34:30 Instrument ID: 9915
Lims ID: IC v100
Client ID:
Operator ID: knk41612 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

67 Ethyl acrylate, CAS: 140-88-5

Signal: 1

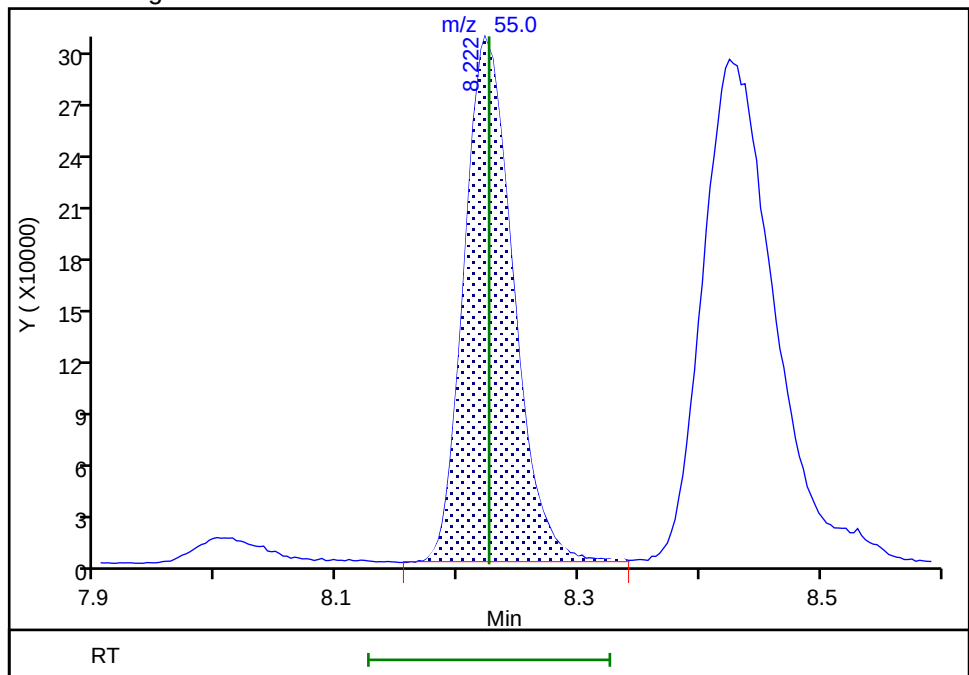
Not Detected
Expected RT: 8.23

Processing Integration Results



RT: 8.22
Area: 874876
Amount: 110.2483
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:31:47 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

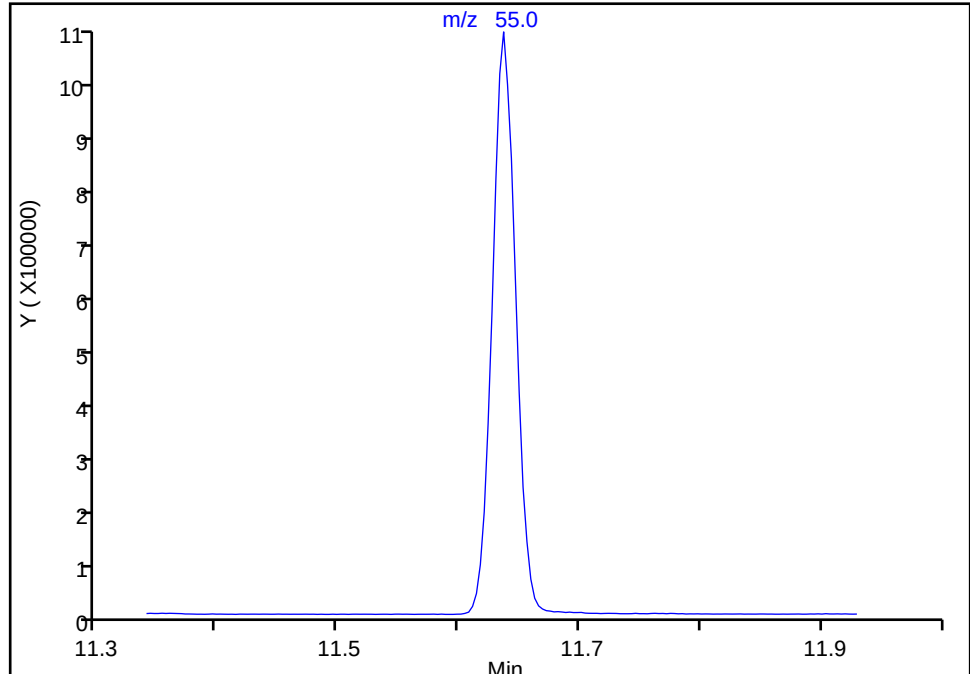
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X16.D
Injection Date: 15-Jul-2024 19:34:30 Instrument ID: 9915
Lims ID: IC v100
Client ID:
Operator ID: knk41612 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

137 n-Butyl acrylate, CAS: 141-32-2

Signal: 1

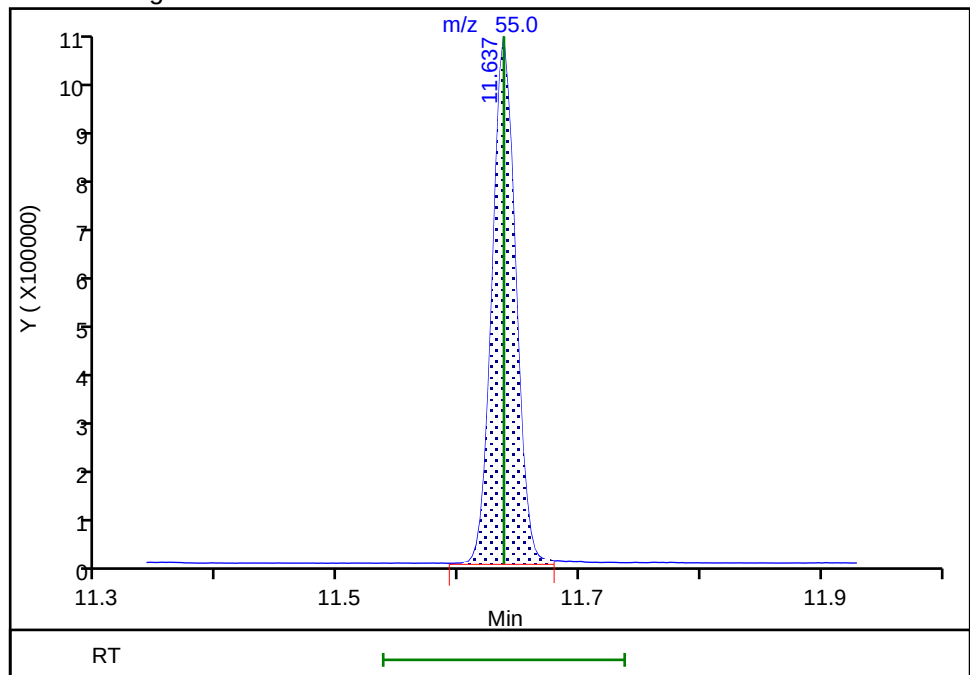
Not Detected
Expected RT: 11.64

Processing Integration Results



RT: 11.64
Area: 1352429
Amount: 101.0243
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:31:43 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

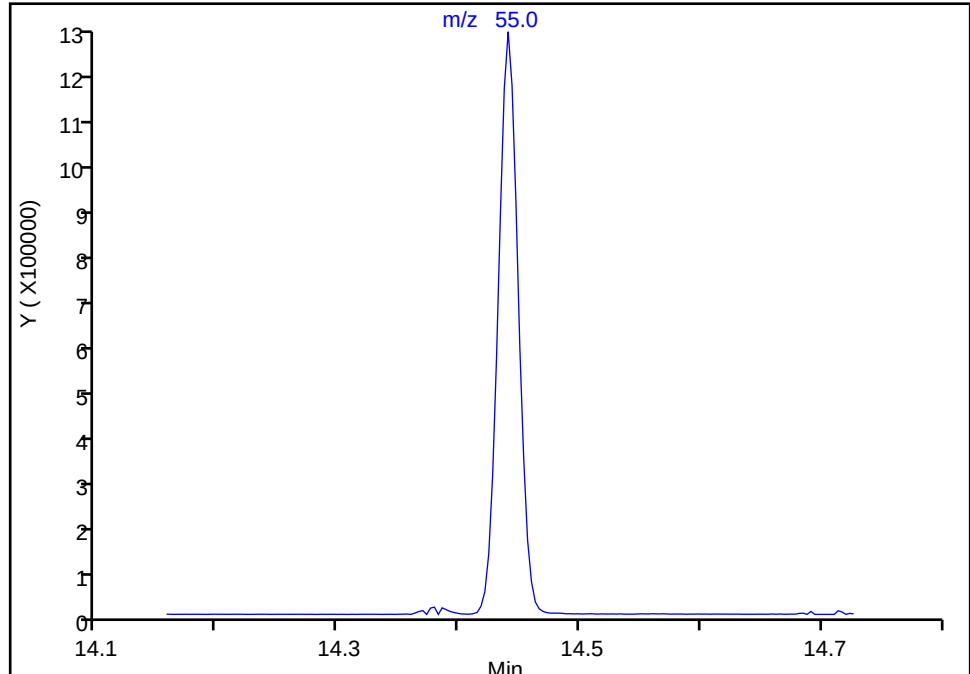
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X16.D
Injection Date: 15-Jul-2024 19:34:30 Instrument ID: 9915
Lims ID: IC v100
Client ID:
Operator ID: knk41612 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) MS Quad

173 2-Ethylhexyl acrylate, CAS: 103-11-7

Signal: 1

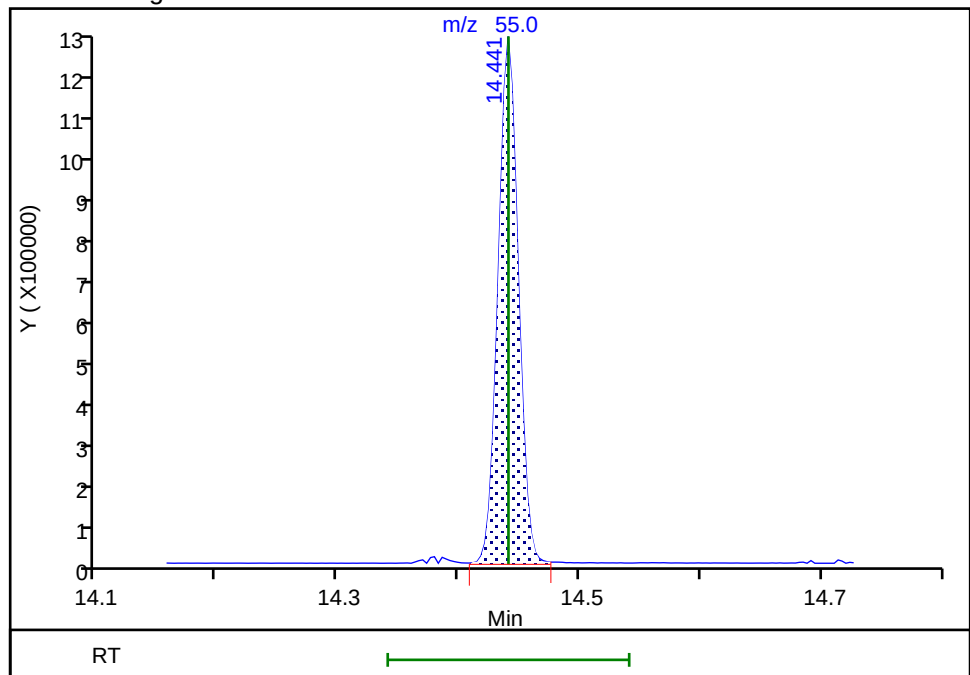
Not Detected
Expected RT: 14.44

Processing Integration Results



RT: 14.44
Area: 1447618
Amount: 112.6373
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:31:40 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Lims ID: IC v300
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 15-Jul-2024 19:57:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119345-018
 Misc. Info.: IC V300
 Operator ID: knk41612 Instrument ID: 9915
 Sublist: chrom-MSVoa_9915a*sub91
 Method: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 16-Jul-2024 20:47:58 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1659

First Level Reviewer: DVW2

Date: 16-Jul-2024 07:58:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.946	1.946	0.000	99	3104825	300.0	306.0	
4 Chloromethane	50	2.139	2.142	-0.003	99	3317893	300.0	293.6	
6 Butadiene	39	2.245	2.245	0.000	92	3168315	300.0	292.5	
5 Vinyl chloride	62	2.251	2.255	-0.004	98	3280892	300.0	296.7	
8 Bromomethane	94	2.579	2.589	-0.010	90	2521860	300.0	293.8	
9 Chloroethane	64	2.647	2.653	-0.006	100	1706052	300.0	294.6	
10 Dichlorofluoromethane	67	2.898	2.898	0.000	98	5224737	300.0	293.2	
11 Trichlorofluoromethane	101	2.962	2.975	-0.013	97	4197490	300.0	315.5	
12 Pentane	43	3.000	2.991	0.009	95	3079633	300.0	334.1	
13 Ethyl ether	59	3.164	3.171	-0.007	91	1324330	300.0	304.5	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.280	3.284	-0.004	92	2429479	300.0	294.8	
16 Acrolein	56	3.322	3.332	-0.010	99	5268398	3006.5	2988.1	
18 Acetone	58	3.486	3.489	-0.003	100	555009	600.0	665.7	
17 1,1-Dichloroethene	96	3.505	3.512	-0.007	98	1965242	300.0	322.4	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.525	3.528	-0.003	94	2294048	300.0	327.2	
20 Isopropyl alcohol	45	3.653	3.666	-0.013	96	792450	1500.0	1331.6	
21 Iodomethane	142	3.695	3.705	-0.010	98	4065146	300.0	317.1	
22 Carbon disulfide	76	3.804	3.805	-0.001	99	7256276	300.0	324.9	
24 Methyl acetate	43	3.894	3.907	-0.013	97	1508931	300.0	309.2	
25 3-Chloro-1-propene	41	3.930	3.936	-0.006	88	2720710	300.0	319.9	
27 Methylene Chloride	84	4.155	4.145	0.010	93	2262784	300.0	306.4	
* 28 t-Butyl alcohol-d10 (IS)	65	4.197	4.181	0.016	94	307262	250.0	250.0	
29 2-Methyl-2-propanol	59	4.319	4.313	0.006	28	1456373	1500.0	1314.7	M
30 Acrylonitrile	53	4.425	4.438	-0.013	99	2181243	750.0	778.2	
31 trans-1,2-Dichloroethene	96	4.518	4.528	-0.010	99	1738033	300.0	304.4	
32 Methyl tert-butyl ether	73	4.557	4.557	0.000	97	6866164	300.0	308.5	
34 Hexane	57	4.959	4.972	-0.013	93	2197916	300.0	313.3	
35 1,1-Dichloroethane	63	5.184	5.187	-0.003	96	2856943	300.0	309.2	
37 Isopropyl ether	45	5.267	5.271	-0.004	93	6049532	300.0	317.1	
38 2-Chloro-1,3-butadiene	53	5.293	5.300	-0.007	91	2434916	300.0	304.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.817	5.808	0.009	99	6390894	300.0	315.0	
40 2-Butanone (MEK)	43	6.000	6.004	-0.004	99	2387696	600.0	657.4	
42 cis-1,2-Dichloroethene	96	6.023	6.030	-0.007	81	1893123	300.0	302.6	
43 2,2-Dichloropropane	77	6.065	6.058	0.007	89	3354009	300.0	318.3	
45 Propionitrile	54	6.078	6.081	-0.003	95	1939635	1500.0	1567.5	
46 Methyl acrylate	55	6.132	6.139	-0.007	100	2287661	300.0	321.6	a
S 41 1,2-Dichloroethene, Total	100				0			607.1	
47 Methacrylonitrile	67	6.296	6.296	0.000	92	2333074	750.0	789.9	
48 Chlorobromomethane	128	6.360	6.354	0.006	91	977508	300.0	297.6	
49 Tetrahydrofuran	71	6.373	6.380	-0.007	91	1632440	1500.0	1476.7	
50 Chloroform	83	6.508	6.515	-0.007	93	2941735	300.0	284.0	
\$ 51 Dibromofluoromethane (Surr)	113	6.727	6.730	-0.003	44	285566	50.0	49.0	
52 1,1,1-Trichloroethane	97	6.759	6.759	0.000	97	3449494	300.0	325.2	
53 Cyclohexane	56	6.862	6.862	0.000	90	3908236	300.0	331.8	
55 1,1-Dichloropropene	75	6.958	6.959	-0.001	95	2254741	300.0	303.0	
54 Carbon tetrachloride	117	6.968	6.965	0.003	86	2868878	300.0	338.8	
56 Isobutyl alcohol	41	7.122	7.126	-0.004	97	1419268	3750.0	3621.9	
\$ 57 1,2-Dichloroethane-d4 (Surr)	102	7.184	7.187	-0.003	89	70757	50.0	50.3	
58 Benzene	78	7.219	7.222	-0.003	96	7063773	300.0	306.6	
59 1,2-Dichloroethane	62	7.290	7.293	-0.003	98	2389305	300.0	306.6	
61 Tert-amyl methyl ether	73	7.431	7.428	0.003	98	6455996	300.0	325.7	
* 62 Fluorobenzene (IS)	96	7.627	7.631	-0.004	99	1161340	50.0	50.0	
63 n-Heptane	43	7.650	7.653	-0.003	92	2349596	300.0	314.3	
65 n-Butanol	56	8.010	8.010	0.000	89	1117949	3750.0	4212.9	
66 Trichloroethene	95	8.113	8.110	0.003	99	1903027	300.0	318.5	
67 Ethyl acrylate	55	8.229	8.226	0.003	99	2691891	299.9	331.7	a
68 Methylcyclohexane	83	8.431	8.425	0.006	90	4117500	300.0	350.8	
69 1,2-Dichloropropane	63	8.441	8.438	0.003	94	1840646	300.0	322.3	
70 2-ethoxy-2-methyl butane	87	8.466	8.460	0.006	92	3234061	300.0	344.0	
71 Methyl methacrylate	69	8.531	8.528	0.003	90	1634112	300.0	337.4	
72 1,4-Dioxane	88	8.528	8.531	-0.003	71	335751	3750.0	3992.5	M
73 Dibromomethane	93	8.550	8.547	0.003	97	1328668	300.0	317.9	
75 Dichlorobromomethane	83	8.788	8.788	0.000	100	2456917	300.0	339.4	
76 2-Nitropropane	41	9.058	9.052	0.006	98	3513730	1500.0	1638.0	
77 2-Chloroethyl vinyl ether	63	9.155	9.155	0.000	92	741899	300.0	347.2	
78 cis-1,3-Dichloropropene	75	9.344	9.345	0.000	96	3100688	300.0	346.7	
79 4-Methyl-2-pentanone (MIBK)	43	9.521	9.521	0.000	97	5298669	600.0	619.6	
\$ 80 Toluene-d8 (Surr)	98	9.659	9.660	-0.001	94	1235181	50.0	48.6	
81 Toluene	92	9.737	9.737	0.000	98	4823702	300.0	304.9	
120 trans-1,3-Dichloropropene	75	9.994	9.994	0.000	93	2878015	300.0	328.8	
S 119 1,3-Dichloropropene, Total	100				0			675.5	
121 Ethyl methacrylate	69	10.061	10.062	-0.001	89	3035081	300.0	306.4	
122 1,1,2-Trichloroethane	97	10.200	10.200	0.000	91	1792328	300.0	305.8	
123 Tetrachloroethene	166	10.296	10.293	0.003	98	2038547	300.0	305.0	
124 1,3-Dichloropropane	76	10.364	10.361	0.003	92	2888357	300.0	309.4	
125 2-Hexanone	43	10.421	10.418	0.003	96	3492155	600.0	583.9	
128 Chlorodibromomethane	129	10.579	10.579	0.000	90	2119584	300.0	341.5	
129 Ethylene Dibromide	107	10.688	10.689	0.000	99	1965806	300.0	312.3	
* 130 Chlorobenzene-d5 (IS)	117	11.129	11.129	0.000	85	1004140	50.0	50.0	
132 1-Chlorohexane	91	11.142	11.139	0.003	97	2530582	300.0	288.9	
133 Chlorobenzene	112	11.154	11.155	-0.001	95	5462636	300.0	311.1	
134 1,1,1,2-Tetrachloroethane	131	11.238	11.235	0.003	97	2292781	300.0	320.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Ethylbenzene	91	11.244	11.242	0.002	98	9777025	300.0	302.4	
S 131 Xylenes, Total	106				0			910.7	
136 m-Xylene & p-Xylene	106	11.360	11.357	0.003	99	7669445	600.0	608.0	
137 n-Butyl acrylate	55	11.637	11.637	0.000	97	4226999	300.0	288.5	a
138 o-Xylene	106	11.688	11.688	0.000	97	4118269	300.0	302.7	
139 Styrene	104	11.704	11.701	0.003	94	6361522	300.0	309.6	
140 Bromoform	173	11.855	11.856	-0.001	97	1566057	300.0	343.4	
142 Isopropylbenzene	105	11.990	11.991	-0.001	96	10394611	300.0	303.6	
141 Cyclohexanone	55	12.061	12.061	0.000	93	1576425	3750.2	3976.7	
\$ 143 4-Bromofluorobenzene (Surr)	95	12.132	12.132	0.000	90	483656	50.0	48.1	
145 1,1,2,2-Tetrachloroethane	83	12.235	12.232	0.003	94	3160390	300.0	309.8	
146 Bromobenzene	156	12.248	12.248	0.000	97	2467435	300.0	318.4	
147 trans-1,4-Dichloro-2-butene	53	12.257	12.258	-0.001	90	2089240	750.0	796.6	
148 1,2,3-Trichloropropane	110	12.277	12.280	-0.003	84	912986	300.0	300.0	
149 N-Propylbenzene	91	12.322	12.319	0.003	99	11696571	300.0	307.4	
150 2-Chlorotoluene	126	12.396	12.396	0.000	97	2535132	300.0	320.1	
151 1,3,5-Trimethylbenzene	105	12.457	12.457	0.000	94	9831178	300.0	327.1	
153 4-Chlorotoluene	126	12.486	12.486	0.000	97	2401971	300.0	315.5	
154 tert-Butylbenzene	134	12.698	12.698	0.000	93	1905449	300.0	345.7	
156 1,2,4-Trimethylbenzene	105	12.740	12.740	0.000	98	9817317	300.0	322.2	
157 sec-Butylbenzene	105	12.862	12.862	0.000	95	12218165	300.0	323.4	e
158 1,3-Dichlorobenzene	146	12.958	12.959	0.000	98	4764575	300.0	309.2	
159 4-Isopropyltoluene	119	12.971	12.968	0.003	97	10877945	300.0	326.5	
* 160 1,4-Dichlorobenzene-d4	152	13.016	13.013	0.003	90	558736	50.0	50.0	
161 1,4-Dichlorobenzene	146	13.032	13.029	0.003	96	4783217	300.0	304.7	
162 1,2,3-Trimethylbenzene	105	13.045	13.045	0.000	98	10696073	300.0	325.3	
163 Benzyl chloride	91	13.109	13.106	0.003	98	6563849	300.0	329.6	
164 1,3-Diethylbenzene	119	13.170	13.171	-0.001	95	6289216	300.0	321.9	
165 p-Diethylbenzene	119	13.241	13.241	0.000	93	6445406	300.0	315.8	
166 n-Butylbenzene	92	13.260	13.261	-0.001	98	5183490	300.0	318.0	
167 1,2-Dichlorobenzene	146	13.293	13.293	0.000	98	5037864	300.0	306.1	
168 o-diethylbenzene	119	13.315	13.312	0.003	96	5503267	300.0	336.3	
170 1,2-Dibromo-3-Chloropropane	75	13.830	13.827	0.003	93	852085	300.0	319.6	
171 1,3,5-Trichlorobenzene	180	13.961	13.958	0.003	98	4210244	300.0	317.5	
172 1,2,4-Trichlorobenzene	180	14.383	14.383	0.000	94	4104424	300.0	306.4	
173 2-Ethylhexyl acrylate	55	14.441	14.441	-0.001	81	4297754	300.0	301.3	a
174 Hexachlorobutadiene	225	14.469	14.466	0.003	98	1671348	300.0	339.6	
175 Naphthalene	128	14.559	14.563	-0.004	98	12820653	300.0	276.6	e
176 1,2,3-Trichlorobenzene	180	14.704	14.704	0.000	96	4096443	300.0	292.3	
177 2-Methylnaphthalene	142	15.322	15.319	0.003	92	7677447	300.0	280.8	
S 188 Total Diethylbenzene	1				0			974.1	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00192	Amount Added: 15.00	Units: uL	
MSV_CCV_CYC_00009	Amount Added: 30.00	Units: uL	
MSV_CCV_VOC#3_00188	Amount Added: 12.00	Units: uL	
MSV_CCV_2CEVE_00184	Amount Added: 15.00	Units: uL	
MSV_CCV_GASES_00819	Amount Added: 7.50	Units: uL	
MSV_CCV_EE_00007	Amount Added: 15.00	Units: uL	
MSV_CCV_OH_Sp_00012	Amount Added: 15.00	Units: uL	
MSV_HP23_ISSS_00014	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 16-Jul-2024 20:47:59

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D

Injection Date: 15-Jul-2024 19:57:30

Instrument ID: 9915

Operator ID: knk41612

Lims ID: IC v300

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

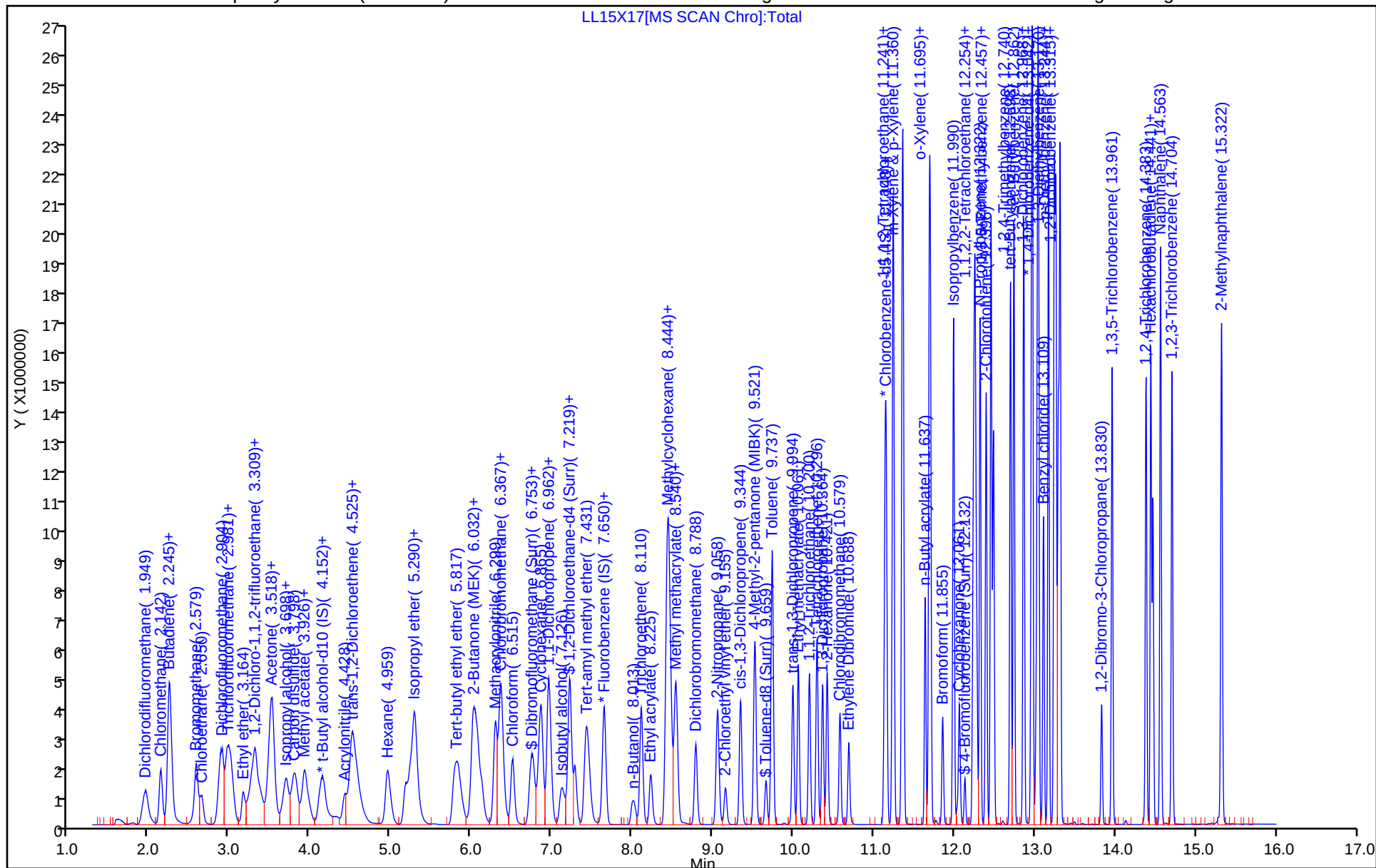
ALS Bottle#: 17

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

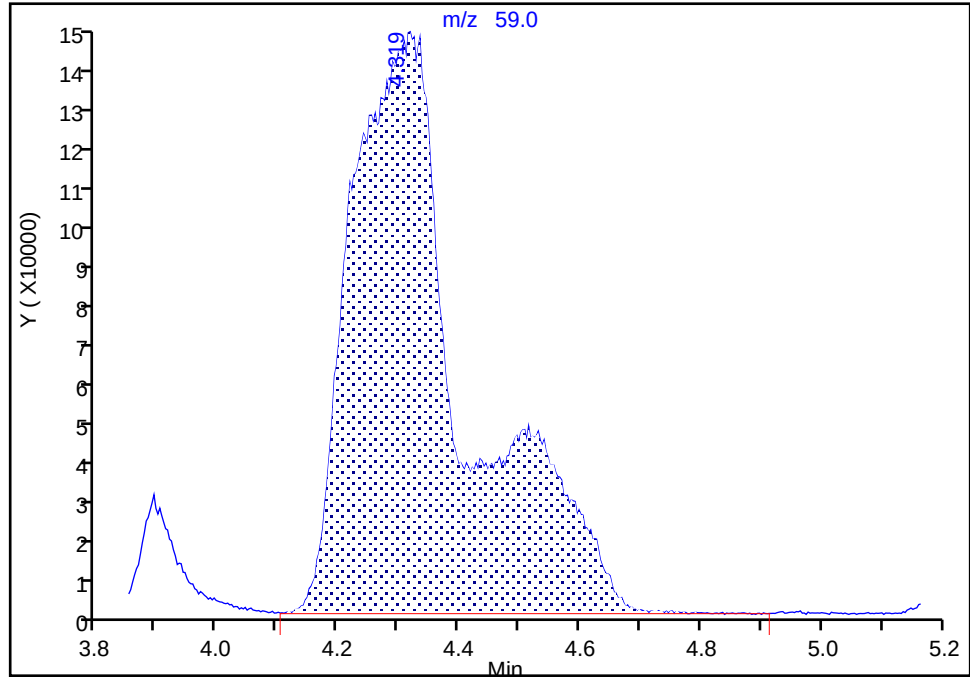
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Injection Date: 15-Jul-2024 19:57:30 Instrument ID: 9915
Lims ID: IC v300
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

29 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

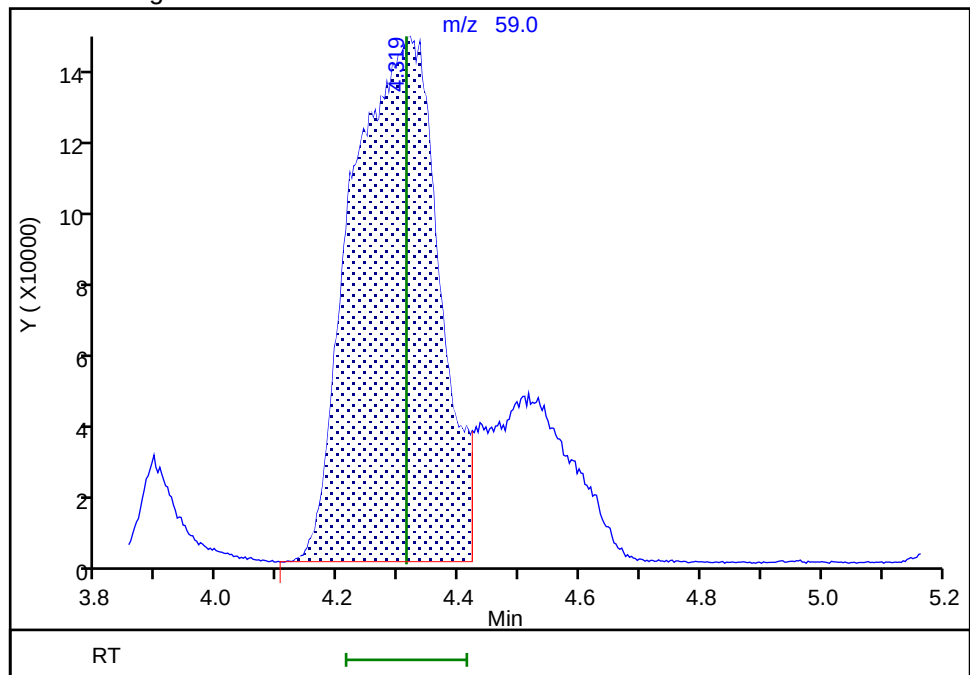
RT: 4.32
Area: 1920352
Amount: 1667.0835
Amount Units: ug/l

Processing Integration Results



RT: 4.32
Area: 1456373
Amount: 1314.7310
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:57:55 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

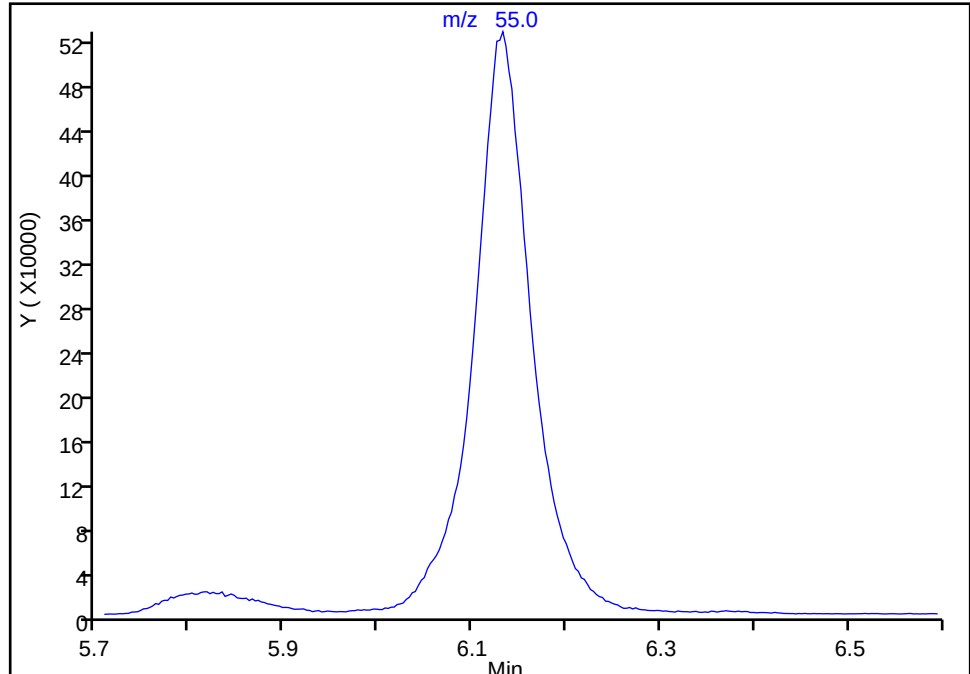
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Injection Date: 15-Jul-2024 19:57:30 Instrument ID: 9915
Lims ID: IC v300
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

46 Methyl acrylate, CAS: 96-33-3

Signal: 1

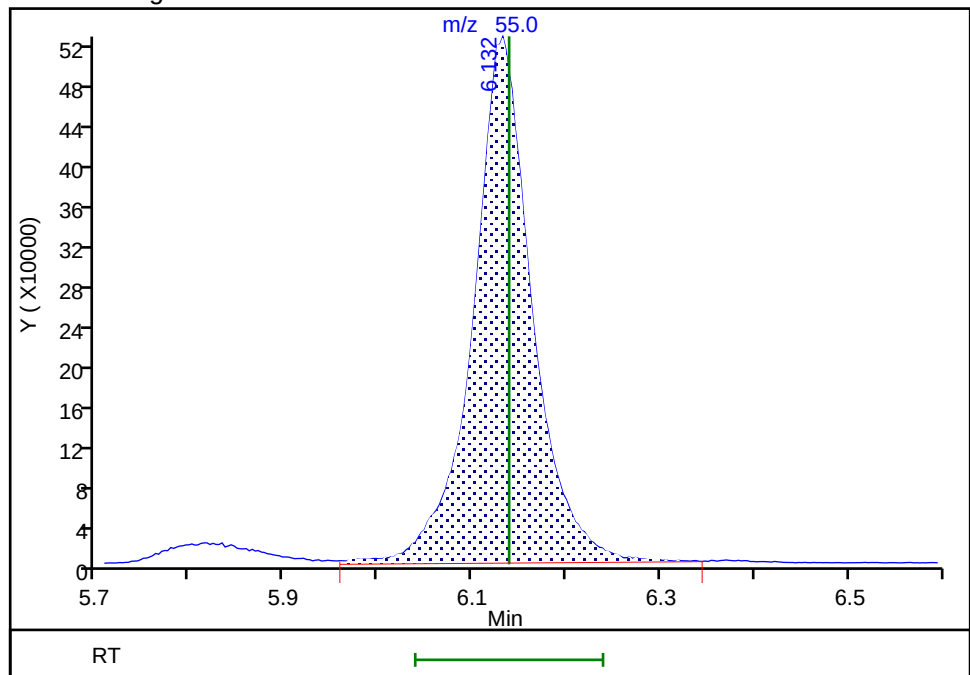
Not Detected
Expected RT: 6.14

Processing Integration Results



RT: 6.13
Area: 2287661
Amount: 321.5845
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:32:00 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

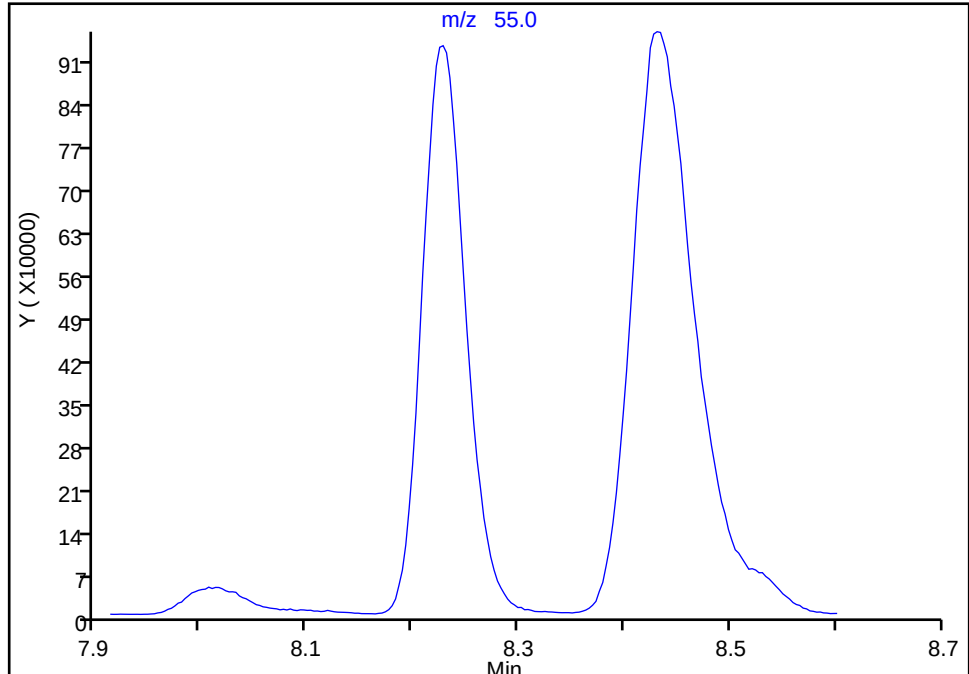
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Injection Date: 15-Jul-2024 19:57:30 Instrument ID: 9915
Lims ID: IC v300
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

67 Ethyl acrylate, CAS: 140-88-5

Signal: 1

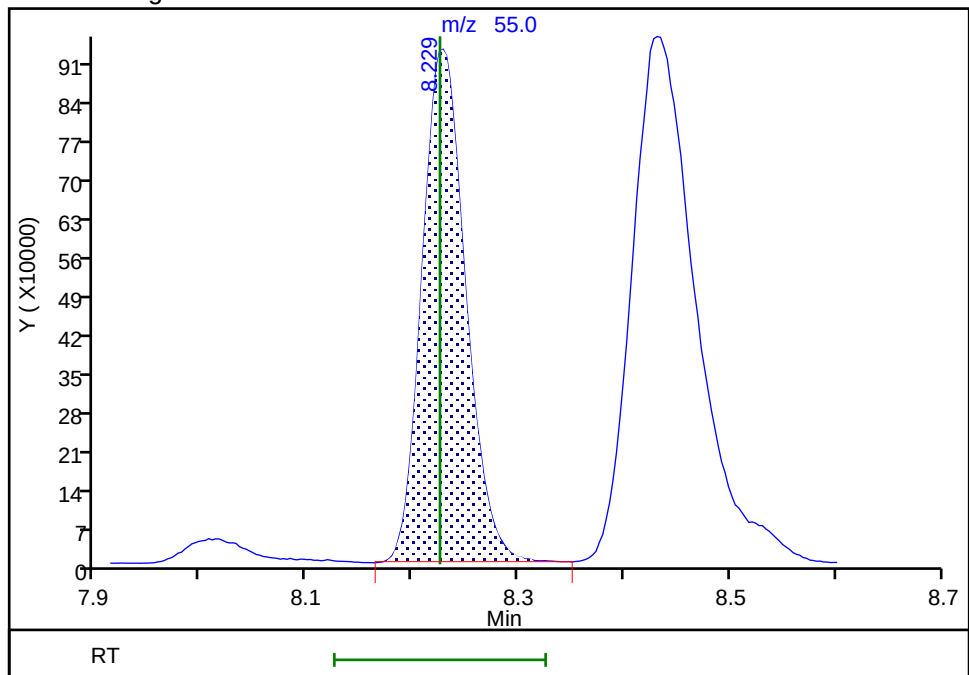
Not Detected
Expected RT: 8.23

Processing Integration Results



RT: 8.23
Area: 2691891
Amount: 331.6919
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:32:03 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

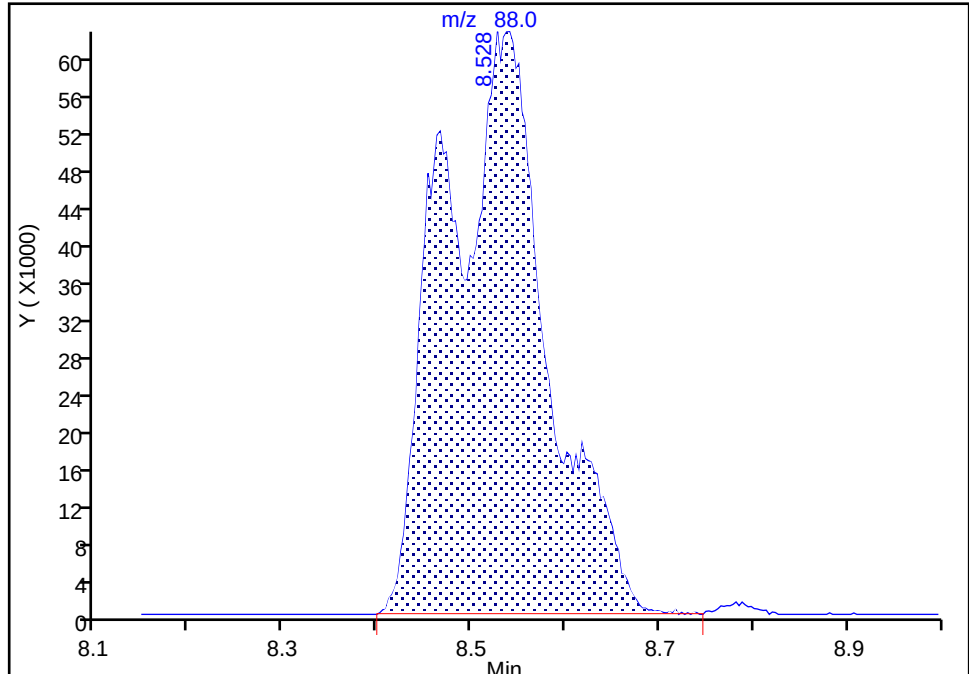
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Injection Date: 15-Jul-2024 19:57:30 Instrument ID: 9915
Lims ID: IC v300
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

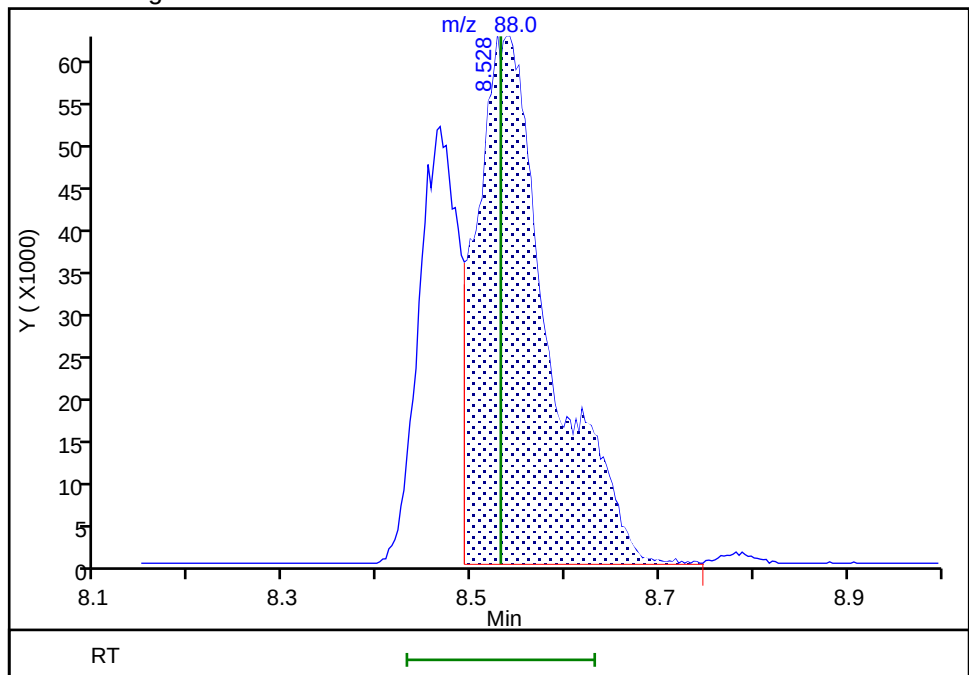
RT: 8.53
Area: 481975
Amount: 5375.2612
Amount Units: ug/l

Processing Integration Results



RT: 8.53
Area: 335751
Amount: 3992.5217
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:58:14 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

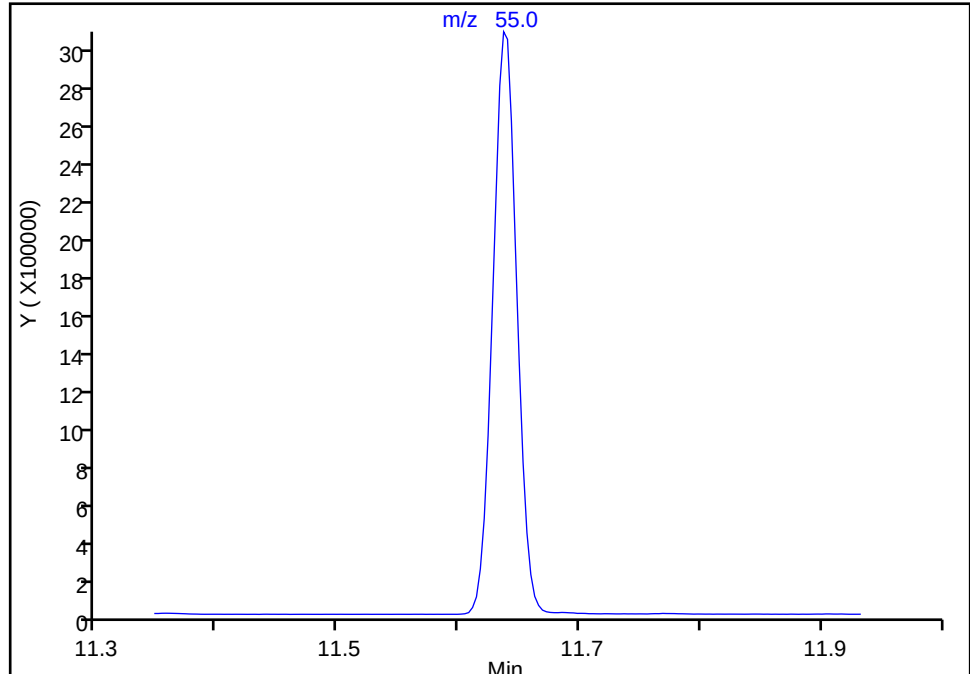
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Injection Date: 15-Jul-2024 19:57:30 Instrument ID: 9915
Lims ID: IC v300
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

137 n-Butyl acrylate, CAS: 141-32-2

Signal: 1

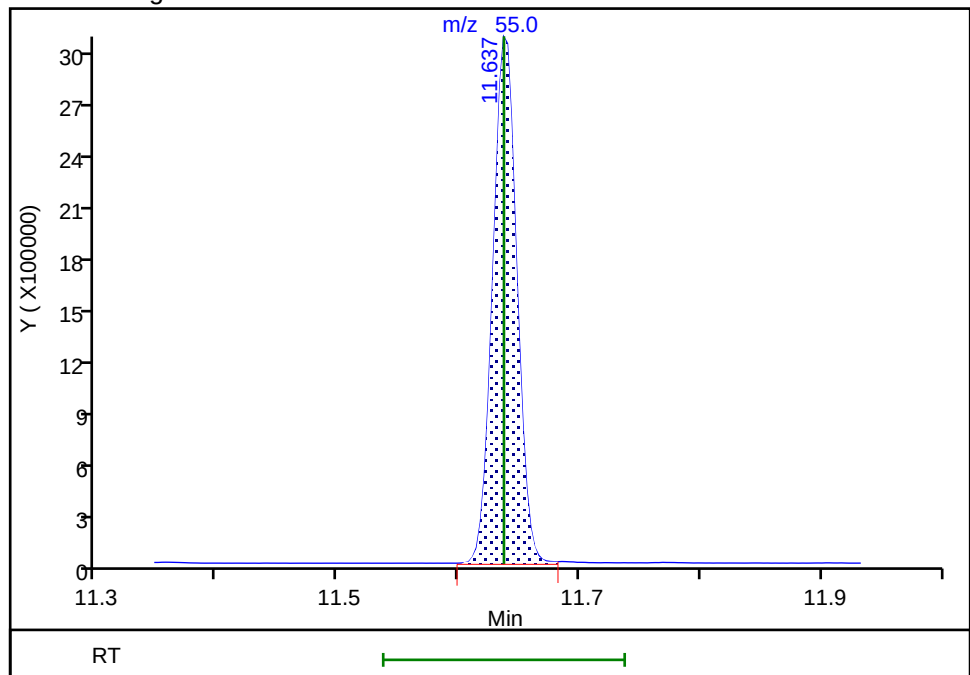
Not Detected
Expected RT: 11.64

Processing Integration Results



RT: 11.64
Area: 4226999
Amount: 288.5325
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:32:07 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

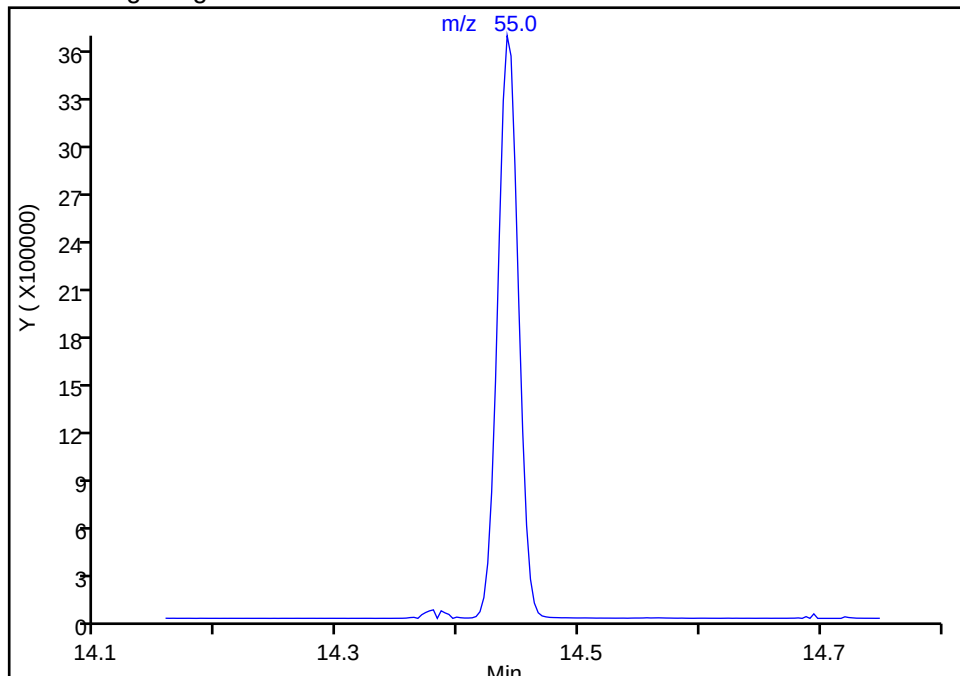
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Injection Date: 15-Jul-2024 19:57:30 Instrument ID: 9915
Lims ID: IC v300
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

173 2-Ethylhexyl acrylate, CAS: 103-11-7

Signal: 1

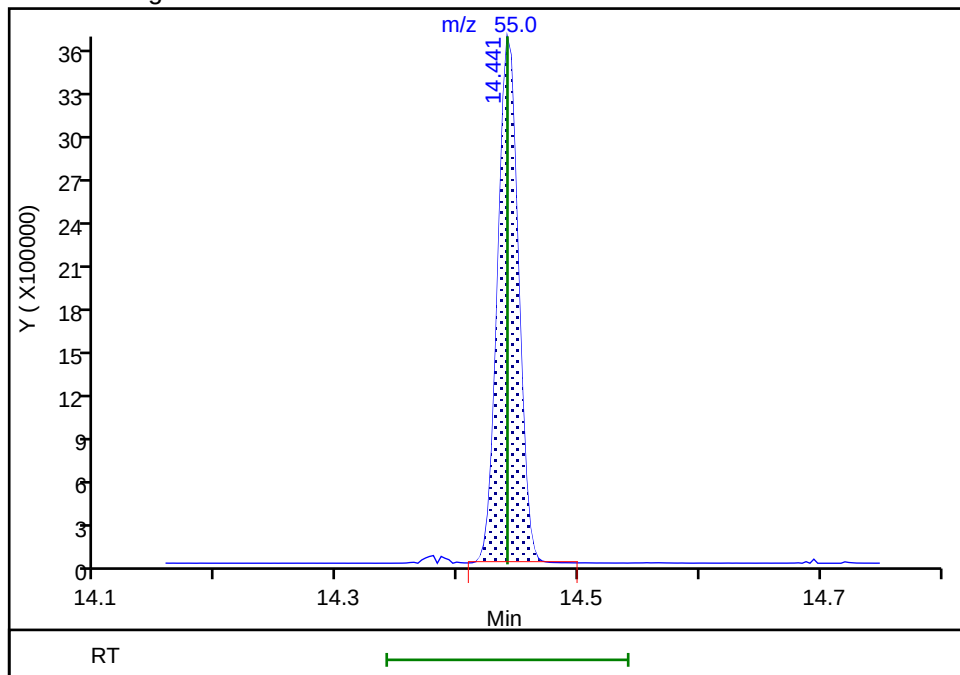
Not Detected
Expected RT: 14.44

Processing Integration Results



RT: 14.44
Area: 4297754
Amount: 301.3010
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 08:32:10 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Calibration

/ Dichlorodifluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

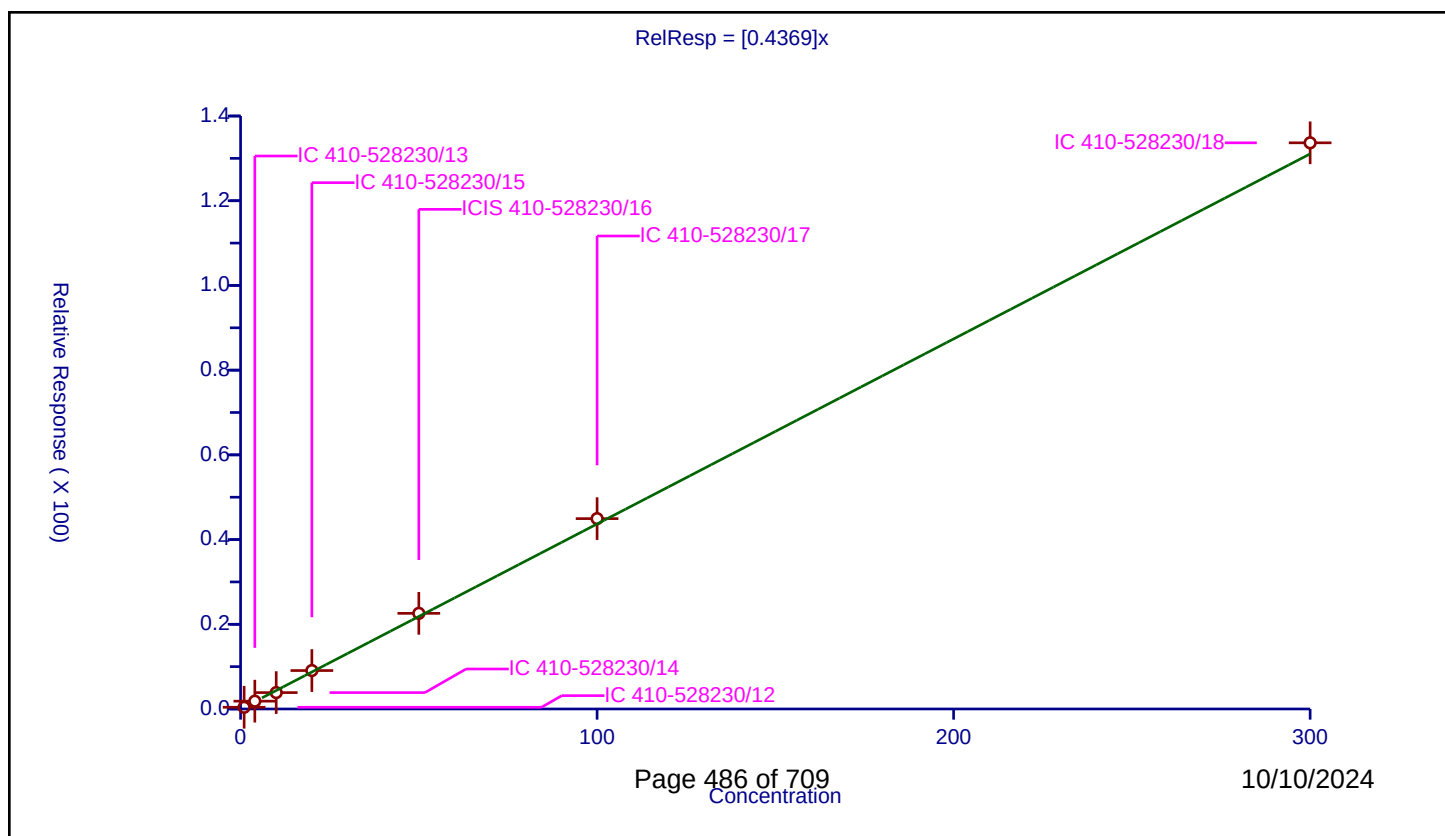
Curve Coefficients

Intercept: 0
Slope: 0.4369

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.409111	50.0	1134043.0	0.409111	Y
2	IC 410-528230/13	4.0	1.844801	50.0	1142427.0	0.4612	Y
3	IC 410-528230/14	10.0	3.871715	50.0	1120550.0	0.387171	Y
4	IC 410-528230/15	20.0	9.076923	50.0	1130350.0	0.453846	Y
5	ICIS 410-528230/16	50.0	22.582016	50.0	1137735.0	0.45164	Y
6	IC 410-528230/17	100.0	44.944094	50.0	1135563.0	0.449441	Y
7	IC 410-528230/18	300.0	133.674247	50.0	1161340.0	0.445581	Y



Calibration

/ Chloromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

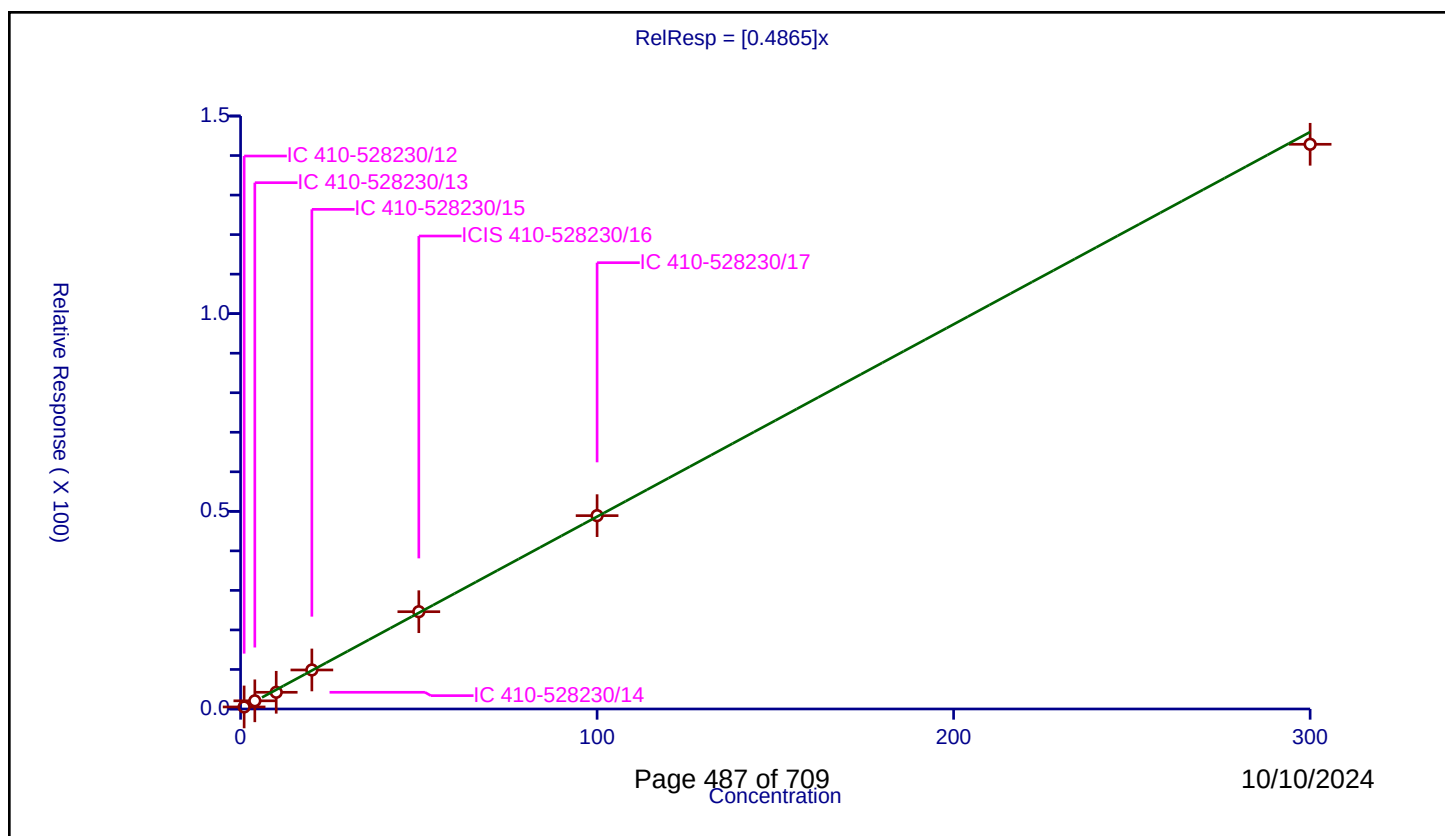
Curve Coefficients

Intercept: 0
Slope: 0.4865

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.514972	50.0	1134043.0	0.514972	Y
2	IC 410-528230/13	4.0	2.067003	50.0	1142427.0	0.516751	Y
3	IC 410-528230/14	10.0	4.229352	50.0	1120550.0	0.422935	Y
4	IC 410-528230/15	20.0	9.872783	50.0	1130350.0	0.493639	Y
5	ICIS 410-528230/16	50.0	24.61241	50.0	1137735.0	0.492248	Y
6	IC 410-528230/17	100.0	48.907194	50.0	1135563.0	0.489072	Y
7	IC 410-528230/18	300.0	142.847616	50.0	1161340.0	0.476159	Y



Calibration

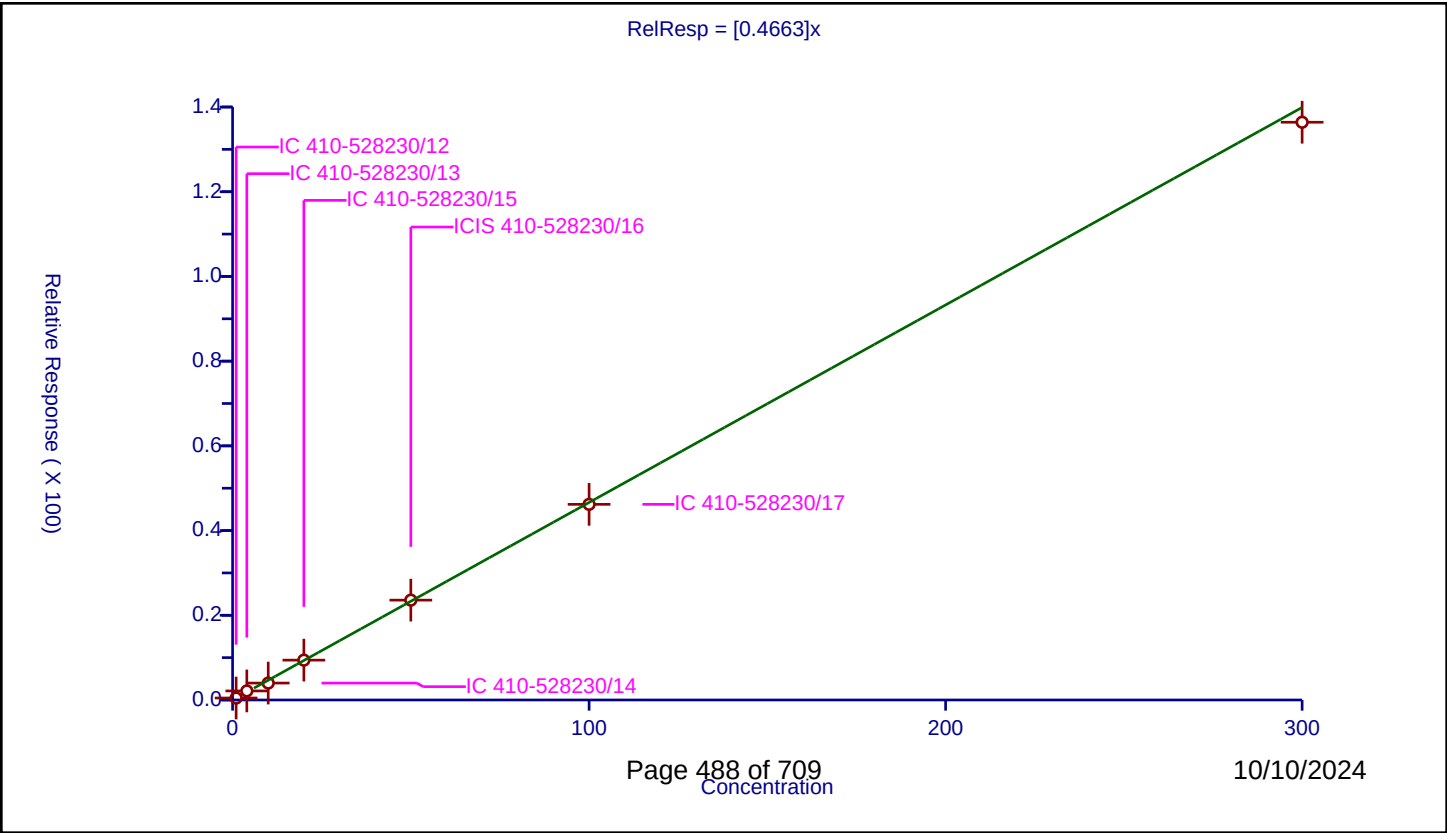
/ Butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4663
Error Coefficients	

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.471896	50.0	1134043.0	0.471896	Y
2	IC 410-528230/13	4.0	2.138474	50.0	1142427.0	0.534618	Y
3	IC 410-528230/14	10.0	3.993485	50.0	1120550.0	0.399349	Y
4	IC 410-528230/15	20.0	9.408281	50.0	1130350.0	0.470414	Y
5	ICIS 410-528230/16	50.0	23.576975	50.0	1137735.0	0.47154	Y
6	IC 410-528230/17	100.0	46.189511	50.0	1135563.0	0.461895	Y
7	IC 410-528230/18	300.0	136.407727	50.0	1161340.0	0.454692	Y



Calibration

/ Vinyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

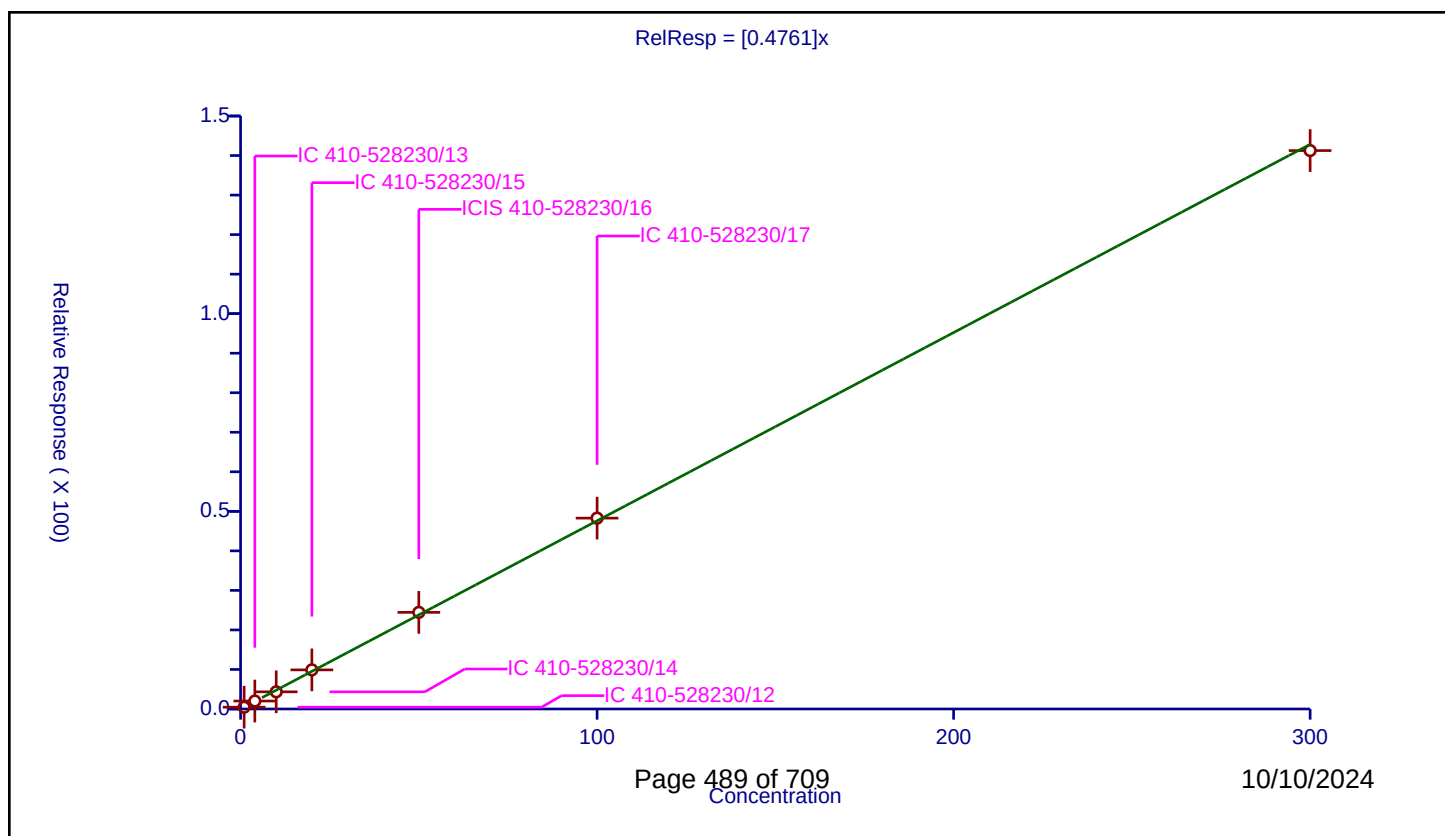
Curve Coefficients

Intercept: 0
Slope: 0.4761

Error Coefficients

Relative Standard Deviation: 5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.458007	50.0	1134043.0	0.458007	Y
2	IC 410-528230/13	4.0	2.013608	50.0	1142427.0	0.503402	Y
3	IC 410-528230/14	10.0	4.340547	50.0	1120550.0	0.434055	Y
4	IC 410-528230/15	20.0	9.89313	50.0	1130350.0	0.494657	Y
5	ICIS 410-528230/16	50.0	24.444752	50.0	1137735.0	0.488895	Y
6	IC 410-528230/17	100.0	48.283451	50.0	1135563.0	0.482835	Y
7	IC 410-528230/18	300.0	141.254585	50.0	1161340.0	0.470849	Y



Calibration

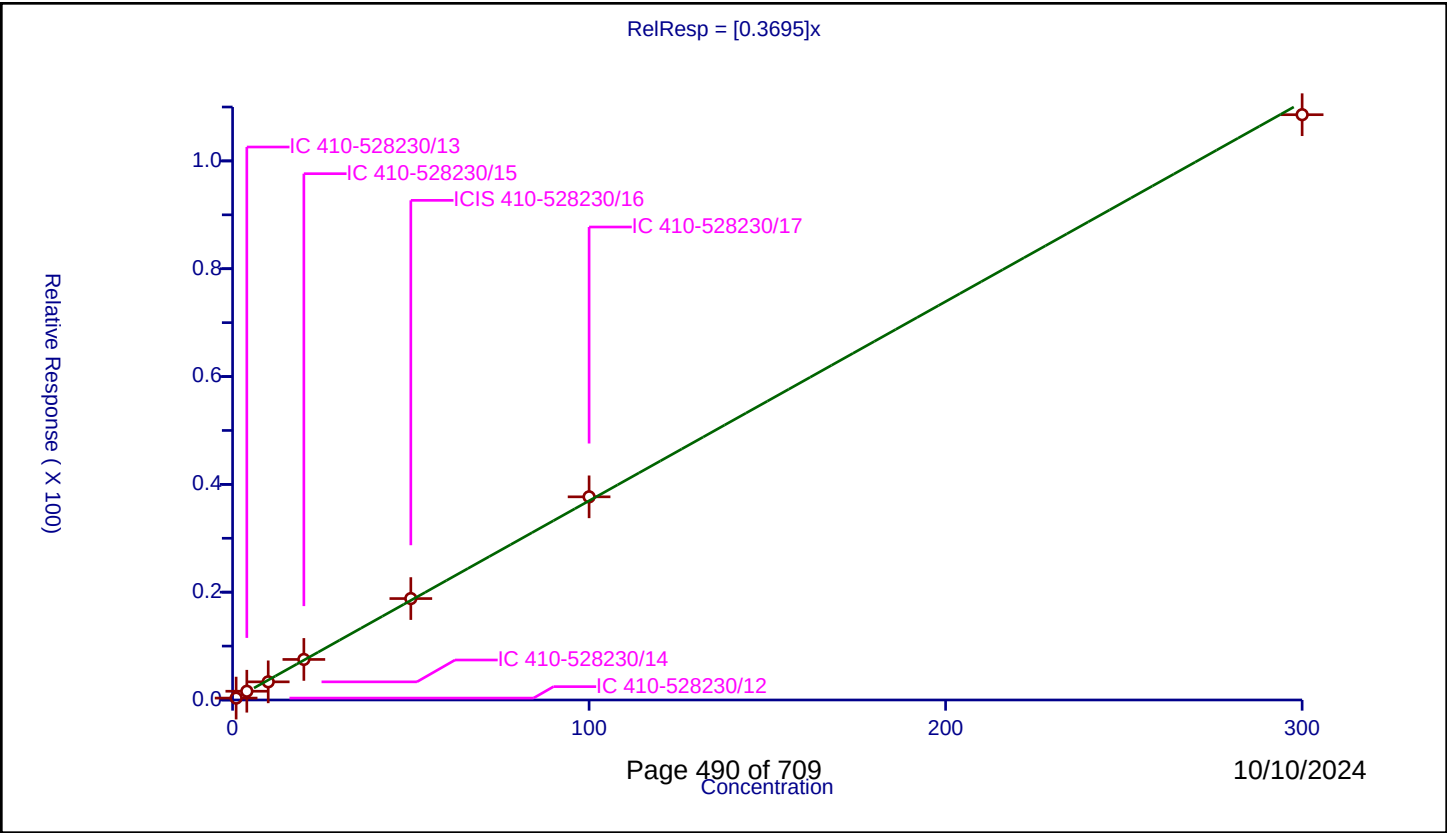
/ Bromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3695
Error Coefficients	

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.352676	50.0	1134043.0	0.352676	Y
2	IC 410-528230/13	4.0	1.624349	50.0	1142427.0	0.406087	Y
3	IC 410-528230/14	10.0	3.36732	50.0	1120550.0	0.336732	Y
4	IC 410-528230/15	20.0	7.52382	50.0	1130350.0	0.376191	Y
5	ICIS 410-528230/16	50.0	18.81708	50.0	1137735.0	0.376342	Y
6	IC 410-528230/17	100.0	37.685712	50.0	1135563.0	0.376857	Y
7	IC 410-528230/18	300.0	108.575439	50.0	1161340.0	0.361918	Y



Calibration

/ Chloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

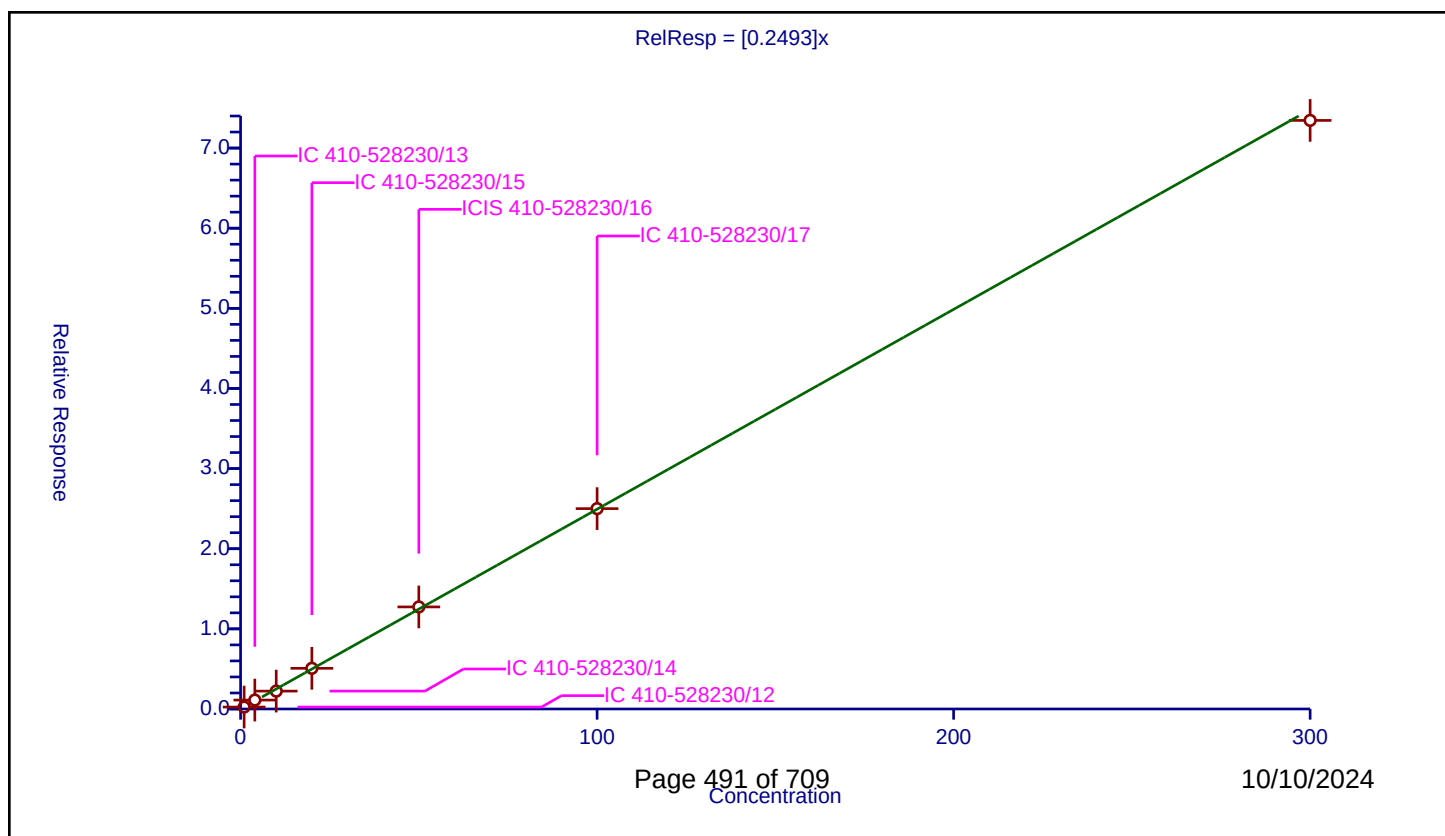
Curve Coefficients

Intercept: 0
Slope: 0.2493

Error Coefficients

Relative Standard Deviation: 6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.240379	50.0	1134043.0	0.240379	Y
2	IC 410-528230/13	4.0	1.113375	50.0	1142427.0	0.278344	Y
3	IC 410-528230/14	10.0	2.232698	50.0	1120550.0	0.22327	Y
4	IC 410-528230/15	20.0	5.076215	50.0	1130350.0	0.253811	Y
5	ICIS 410-528230/16	50.0	12.736094	50.0	1137735.0	0.254722	Y
6	IC 410-528230/17	100.0	25.004425	50.0	1135563.0	0.250044	Y
7	IC 410-528230/18	300.0	73.451875	50.0	1161340.0	0.24484	Y



Calibration

/ Dichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

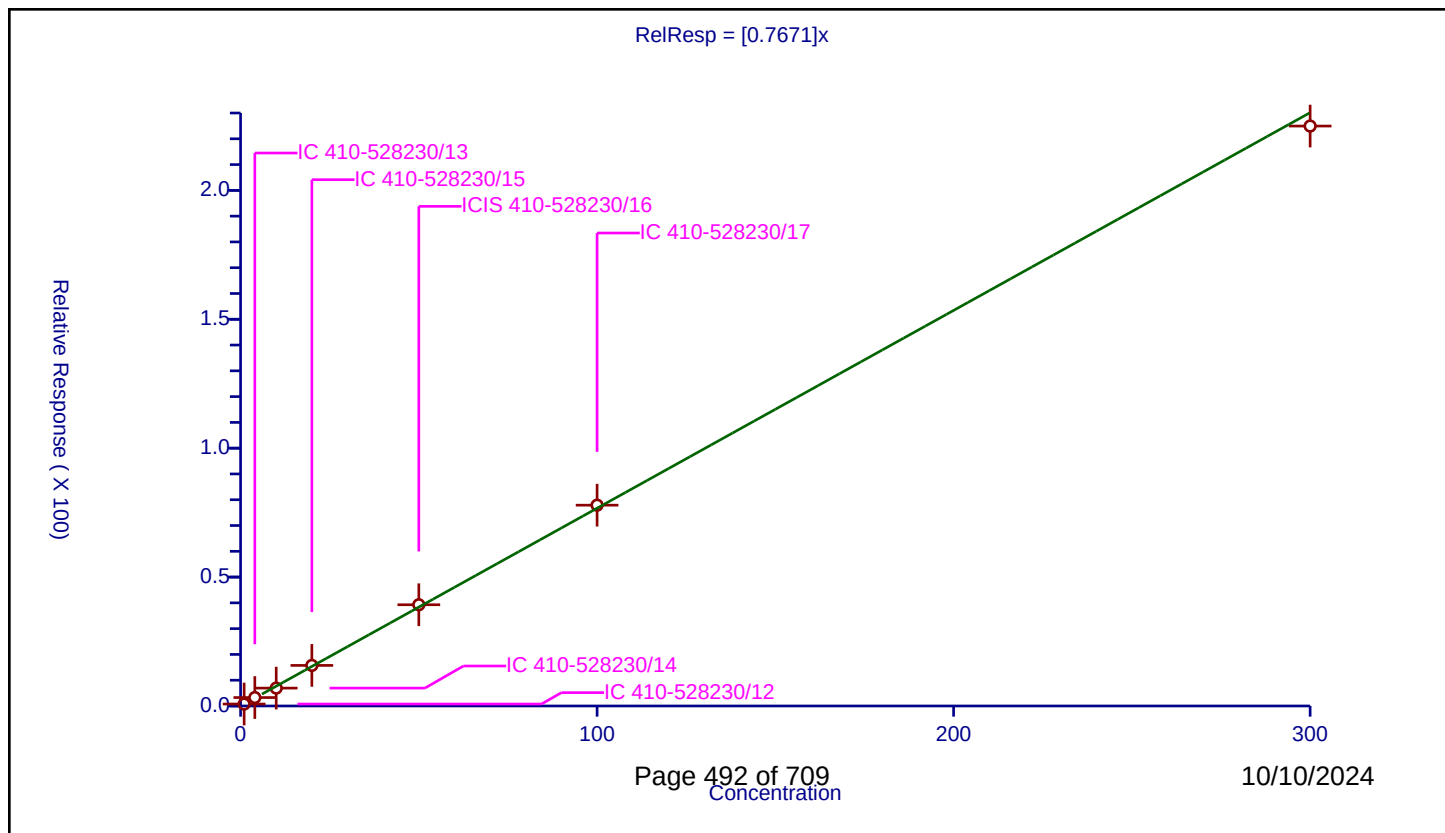
Curve Coefficients

Intercept: 0
Slope: 0.7671

Error Coefficients

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.756894	50.0	1134043.0	0.756894	Y
2	IC 410-528230/13	4.0	3.27382	50.0	1142427.0	0.818455	Y
3	IC 410-528230/14	10.0	6.938066	50.0	1120550.0	0.693807	Y
4	IC 410-528230/15	20.0	15.735347	50.0	1130350.0	0.786767	Y
5	ICIS 410-528230/16	50.0	39.268766	50.0	1137735.0	0.785375	Y
6	IC 410-528230/17	100.0	77.893653	50.0	1135563.0	0.778937	Y
7	IC 410-528230/18	300.0	224.944332	50.0	1161340.0	0.749814	Y



Calibration

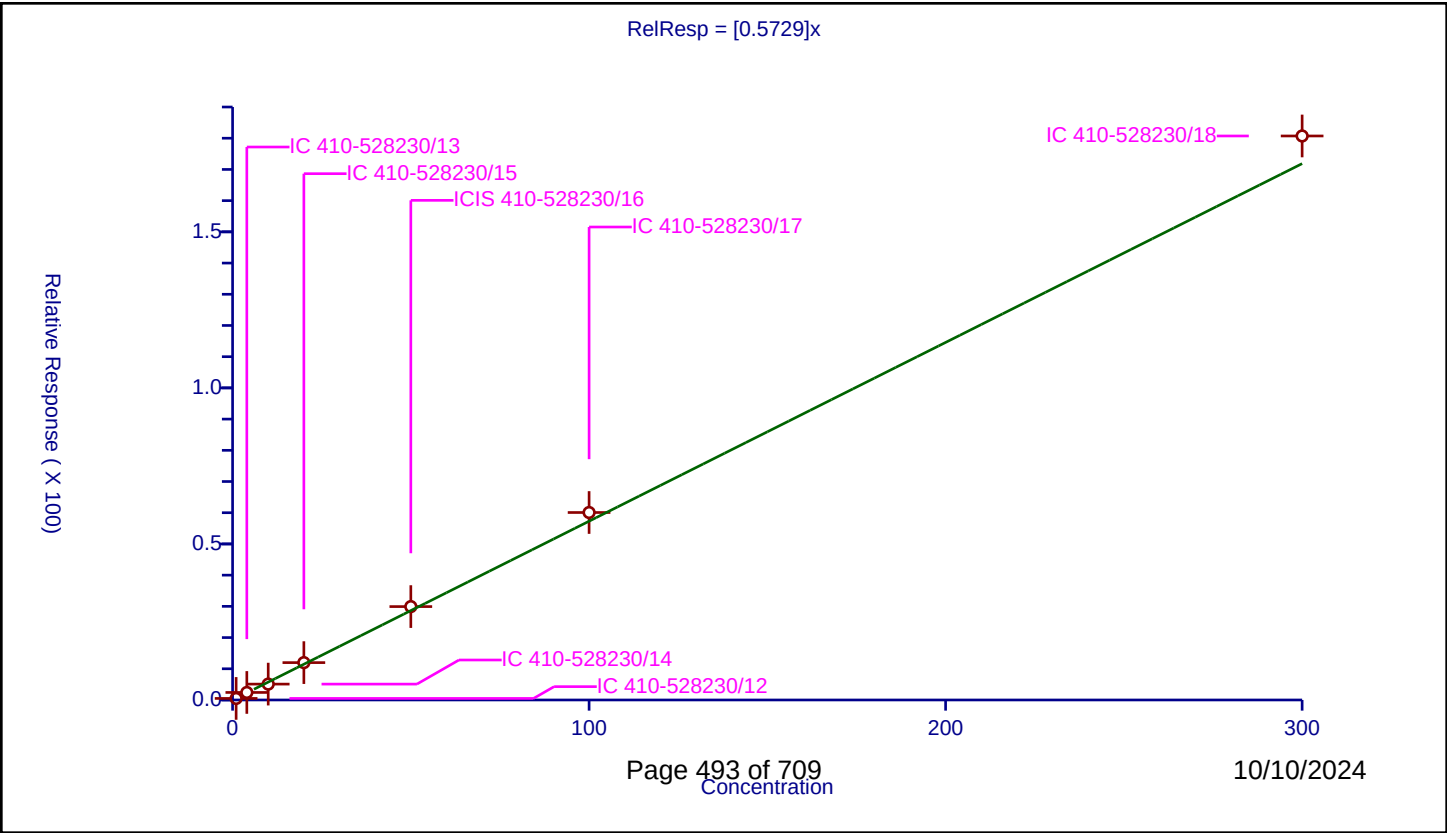
/ Trichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5729
Error Coefficients	

Relative Standard Deviation: 8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.49738	50.0	1134043.0	0.49738	Y
2	IC 410-528230/13	4.0	2.414071	50.0	1142427.0	0.603518	Y
3	IC 410-528230/14	10.0	5.08826	50.0	1120550.0	0.508826	Y
4	IC 410-528230/15	20.0	11.972929	50.0	1130350.0	0.598646	Y
5	ICIS 410-528230/16	50.0	29.923884	50.0	1137735.0	0.598478	Y
6	IC 410-528230/17	100.0	60.075927	50.0	1135563.0	0.600759	Y
7	IC 410-528230/18	300.0	180.717533	50.0	1161340.0	0.602392	Y



Calibration

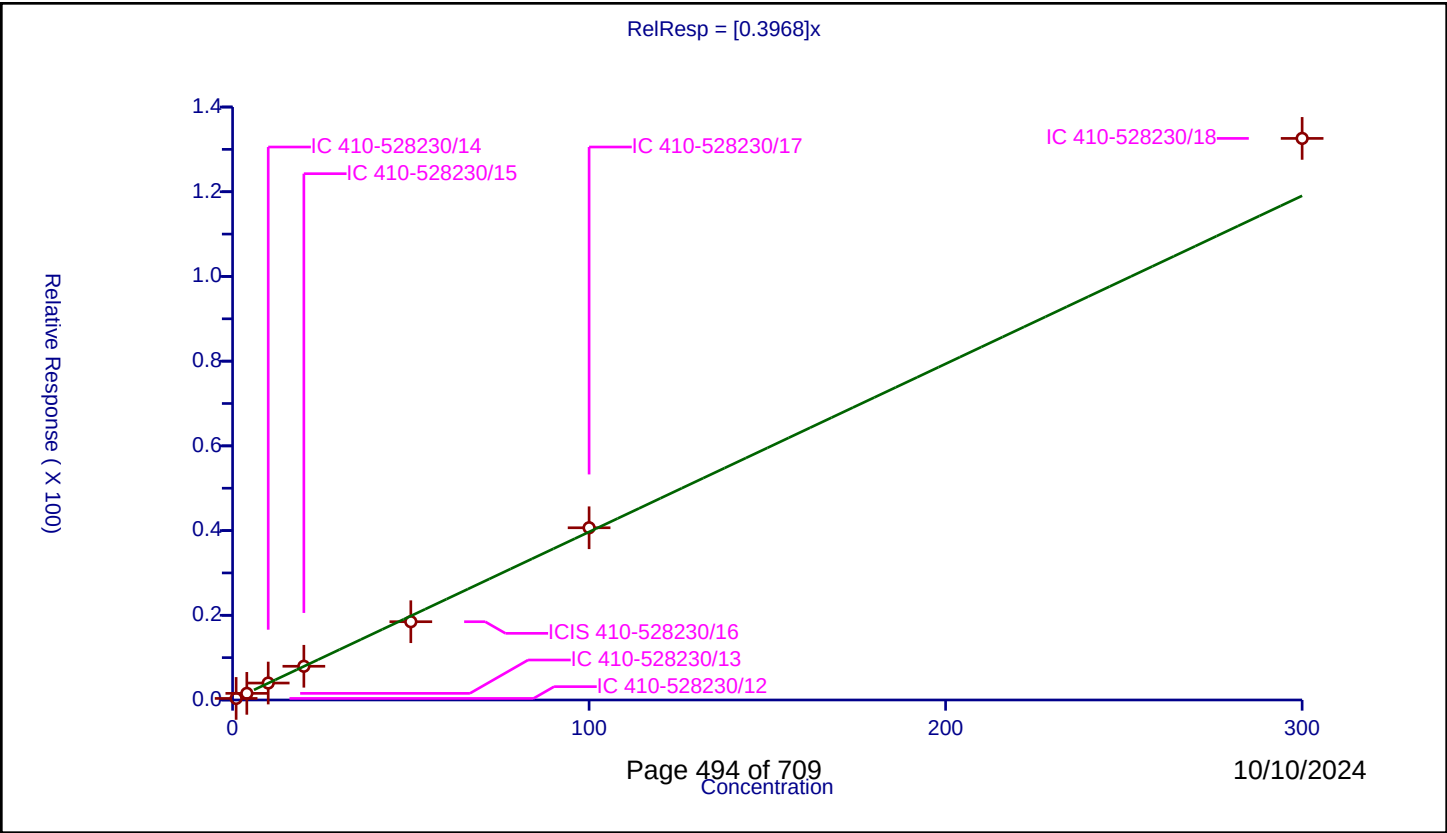
/ Pentane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3968
Error Coefficients	

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.370577	50.0	1134043.0	0.370577	Y
2	IC 410-528230/13	4.0	1.562551	50.0	1142427.0	0.390638	Y
3	IC 410-528230/14	10.0	4.000134	50.0	1120550.0	0.400013	Y
4	IC 410-528230/15	20.0	7.963418	50.0	1130350.0	0.398171	Y
5	ICIS 410-528230/16	50.0	18.481852	50.0	1137735.0	0.369637	Y
6	IC 410-528230/17	100.0	40.664411	50.0	1135563.0	0.406644	Y
7	IC 410-528230/18	300.0	132.589638	50.0	1161340.0	0.441965	Y

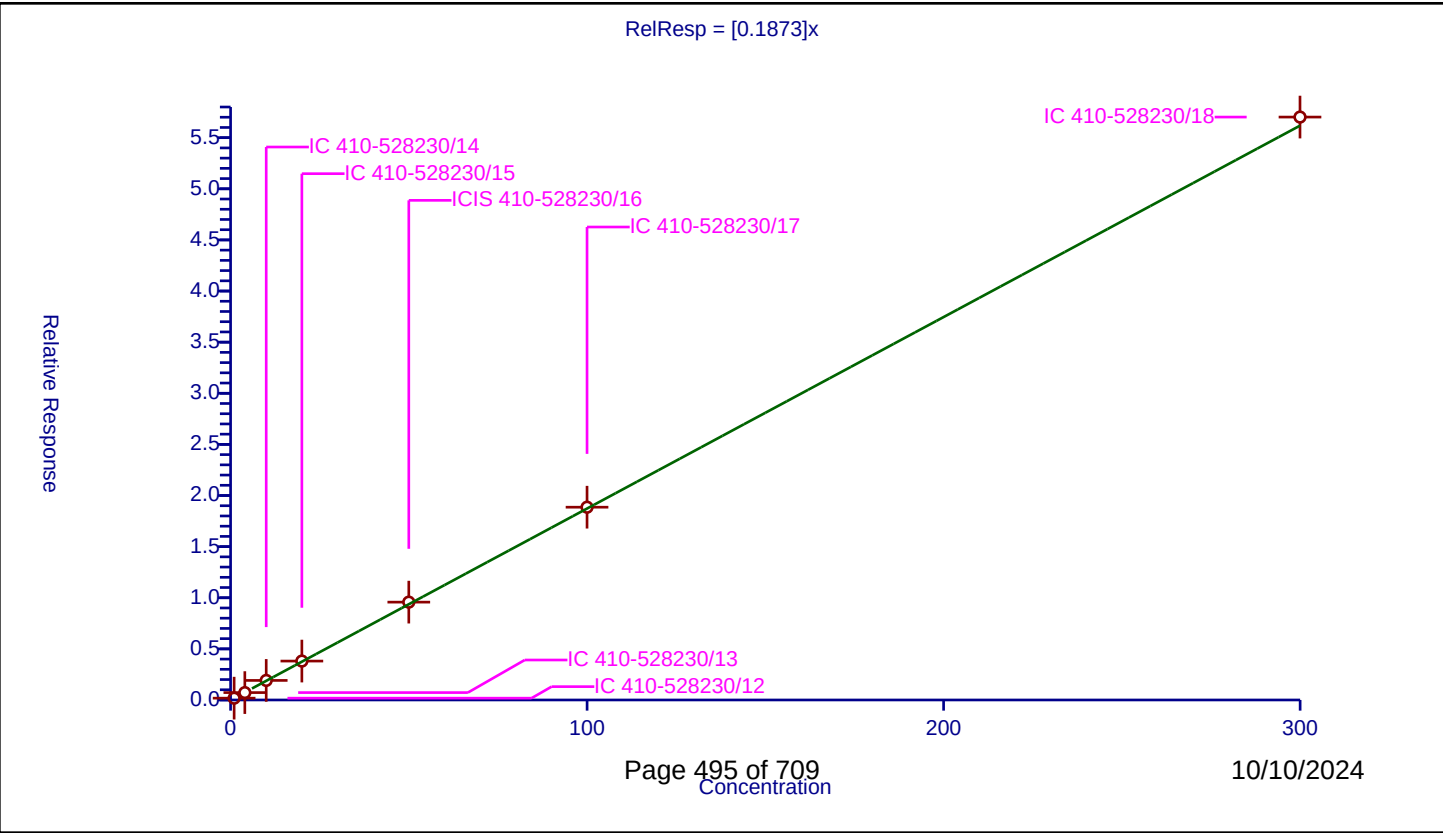


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1873
Error Coefficients	

Relative Standard Deviation: 2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	0.999897	0.178565	50.0	1134043.0	0.178583	Y
2	IC 410-528230/13	3.999587	0.722497	50.0	1142427.0	0.180643	Y
3	IC 410-528230/14	9.998968	1.912052	50.0	1120550.0	0.191225	Y
4	IC 410-528230/15	19.997936	3.807184	50.0	1130350.0	0.190379	Y
5	ICIS 410-528230/16	49.99484	9.571473	50.0	1137735.0	0.191449	Y
6	IC 410-528230/17	99.98968	18.856329	50.0	1135563.0	0.188583	Y
7	IC 410-528230/18	299.96904	57.017325	50.0	1161340.0	0.190077	Y



Calibration

/ 1,2-Dichloro-1,1,2-trifluoroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

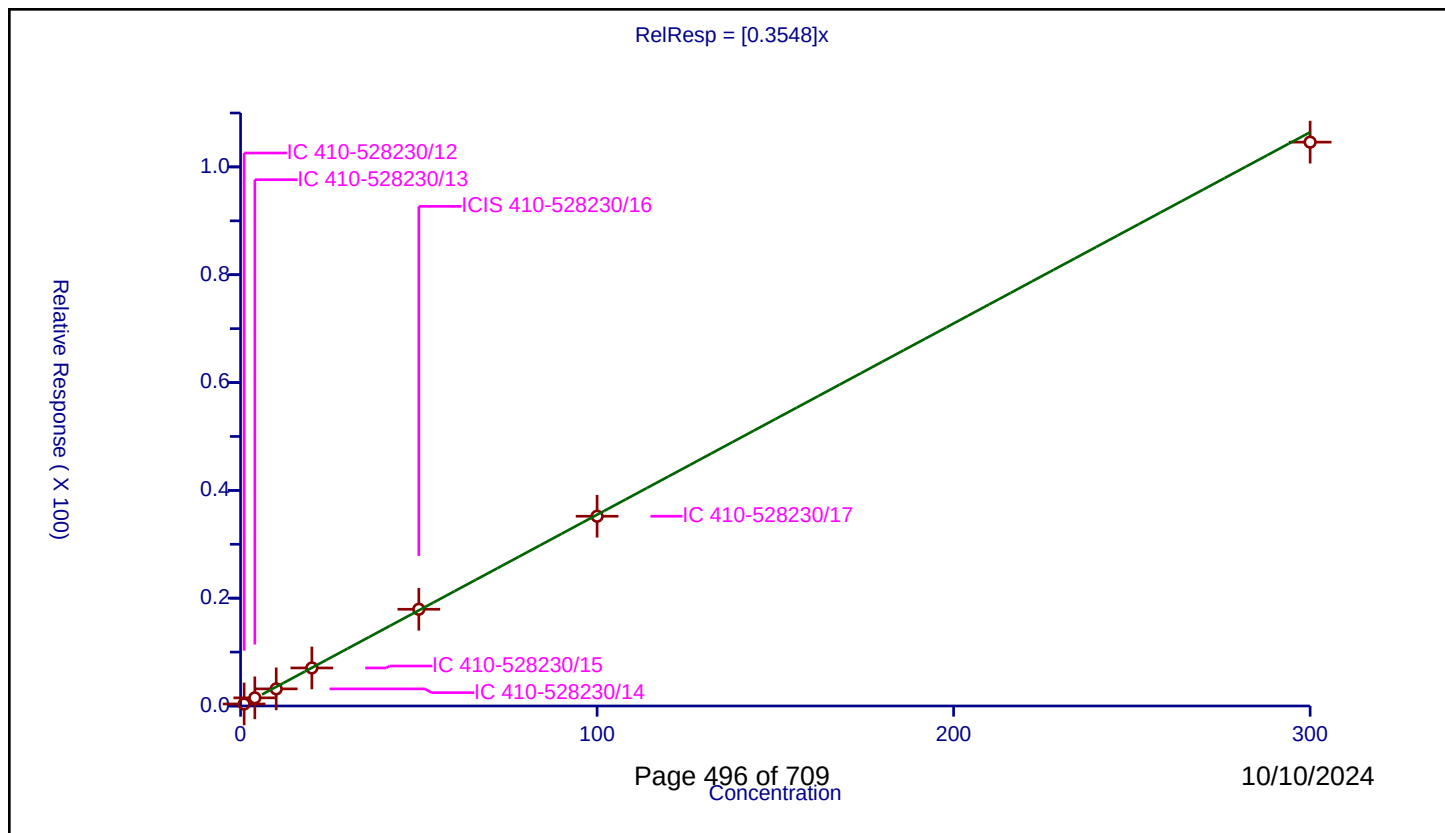
Curve Coefficients

Intercept: 0
Slope: 0.3548

Error Coefficients

Relative Standard Deviation: 5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.375691	50.0	1134043.0	0.375691	Y
2	IC 410-528230/13	4.0	1.512613	50.0	1142427.0	0.378153	Y
3	IC 410-528230/14	10.0	3.173085	50.0	1120550.0	0.317308	Y
4	IC 410-528230/15	20.0	7.057681	50.0	1130350.0	0.352884	Y
5	ICIS 410-528230/16	50.0	17.944513	50.0	1137735.0	0.35889	Y
6	IC 410-528230/17	100.0	35.197343	50.0	1135563.0	0.351973	Y
7	IC 410-528230/18	300.0	104.598094	50.0	1161340.0	0.34866	Y



Calibration

/ Acrolein

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

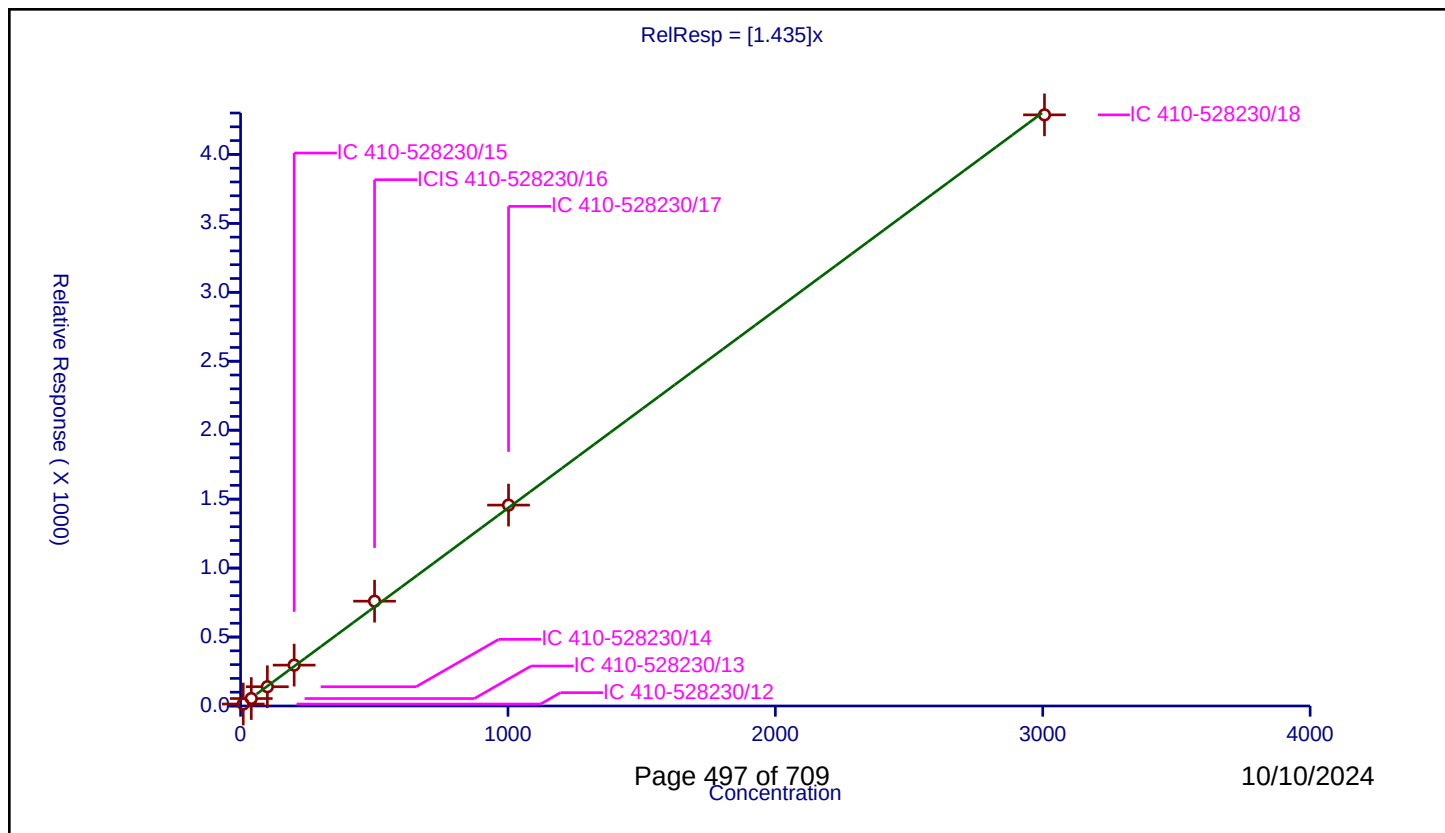
Curve Coefficients

Intercept: 0
Slope: 1.435

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	10.021748	14.274885	250.0	280335.0	1.424391	Y
2	IC 410-528230/13	40.086992	54.029866	250.0	286610.0	1.347815	Y
3	IC 410-528230/14	100.217479	139.74852	250.0	282130.0	1.394453	Y
4	IC 410-528230/15	200.434958	296.399549	250.0	293866.0	1.478782	Y
5	ICIS 410-528230/16	501.087394	760.12367	250.0	295545.0	1.516948	Y
6	IC 410-528230/17	1002.174788	1456.871586	250.0	300753.0	1.45371	Y
7	IC 410-528230/18	3006.524365	4286.568141	250.0	307262.0	1.425755	Y



Calibration

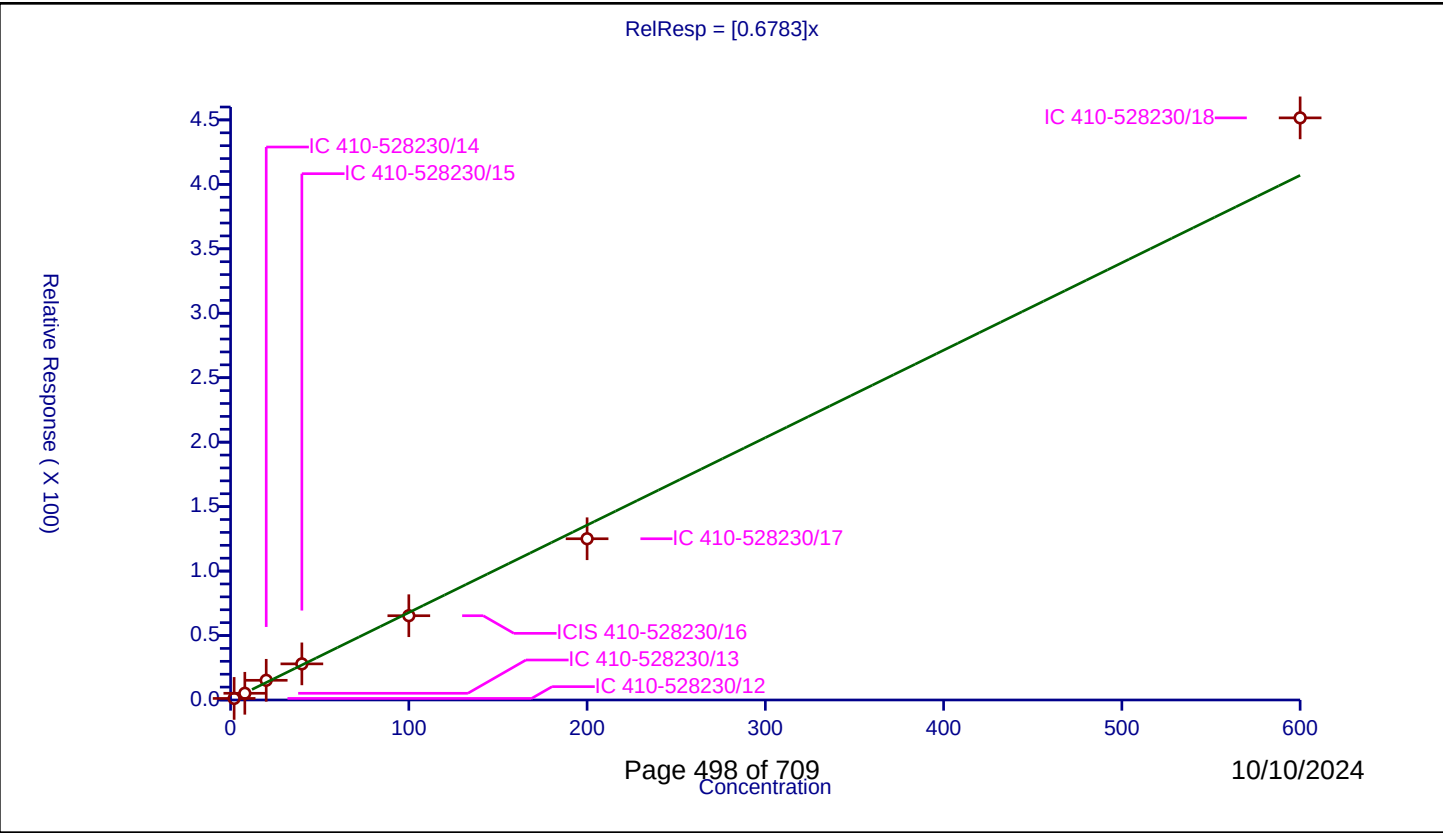
/ Acetone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6783
Error Coefficients	

Relative Standard Deviation: 9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	2.0	1.202133	250.0	280335.0	0.601067	Y
2	IC 410-528230/13	8.0	5.206552	250.0	286610.0	0.650819	Y
3	IC 410-528230/14	20.0	15.28019	250.0	282130.0	0.764009	Y
4	IC 410-528230/15	40.0	28.017872	250.0	293866.0	0.700447	Y
5	ICIS 410-528230/16	100.0	65.387674	250.0	295545.0	0.653877	Y
6	IC 410-528230/17	200.0	125.088528	250.0	300753.0	0.625443	Y
7	IC 410-528230/18	600.0	451.576342	250.0	307262.0	0.752627	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

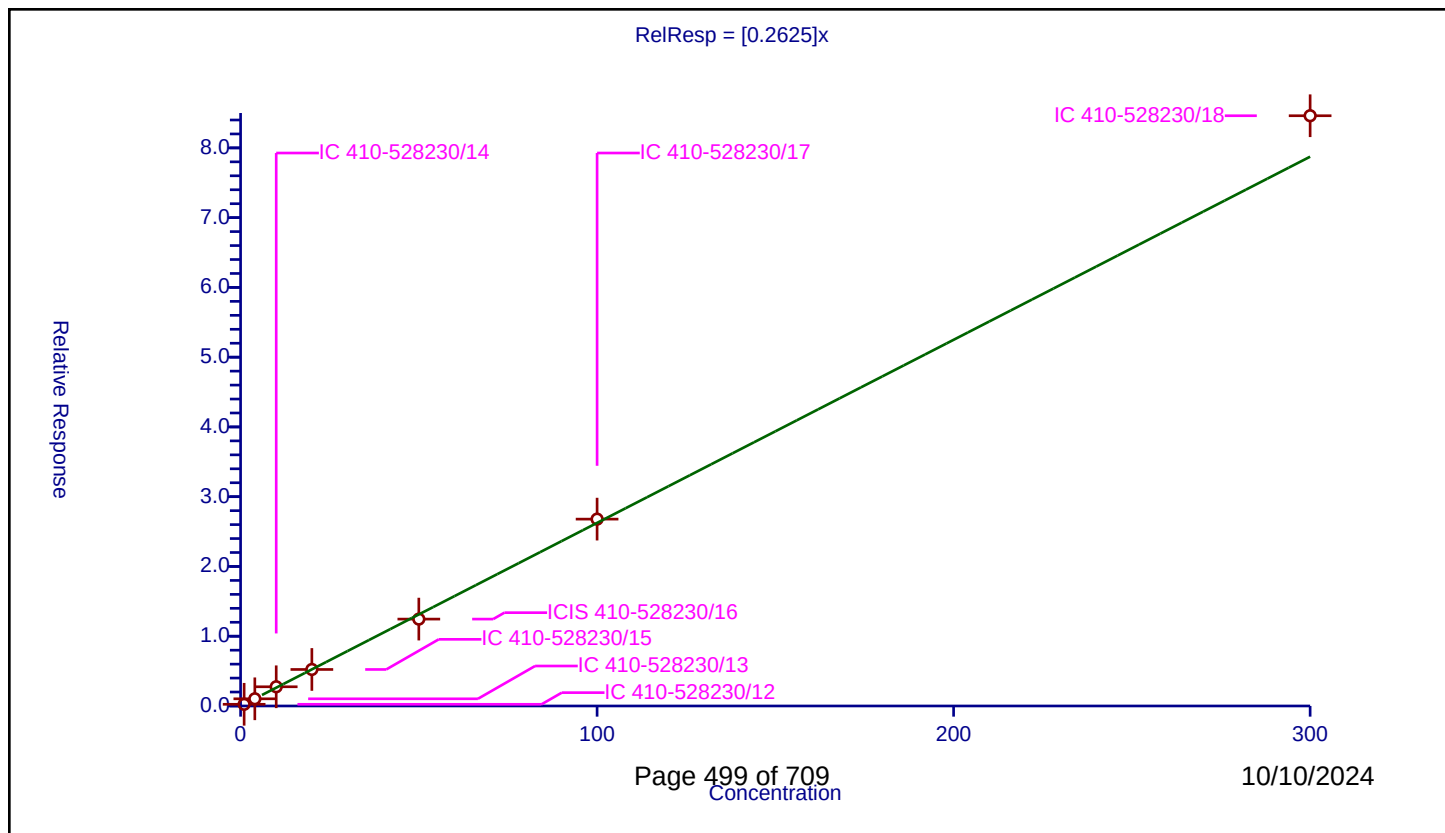
Curve Coefficients

Intercept: 0
Slope: 0.2625

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.243377	50.0	1134043.0	0.243377	Y
2	IC 410-528230/13	4.0	1.030088	50.0	1142427.0	0.257522	Y
3	IC 410-528230/14	10.0	2.75512	50.0	1120550.0	0.275512	Y
4	IC 410-528230/15	20.0	5.236343	50.0	1130350.0	0.261817	Y
5	ICIS 410-528230/16	50.0	12.455229	50.0	1137735.0	0.249105	Y
6	IC 410-528230/17	100.0	26.784731	50.0	1135563.0	0.267847	Y
7	IC 410-528230/18	300.0	84.610967	50.0	1161340.0	0.282037	Y



Calibration

/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

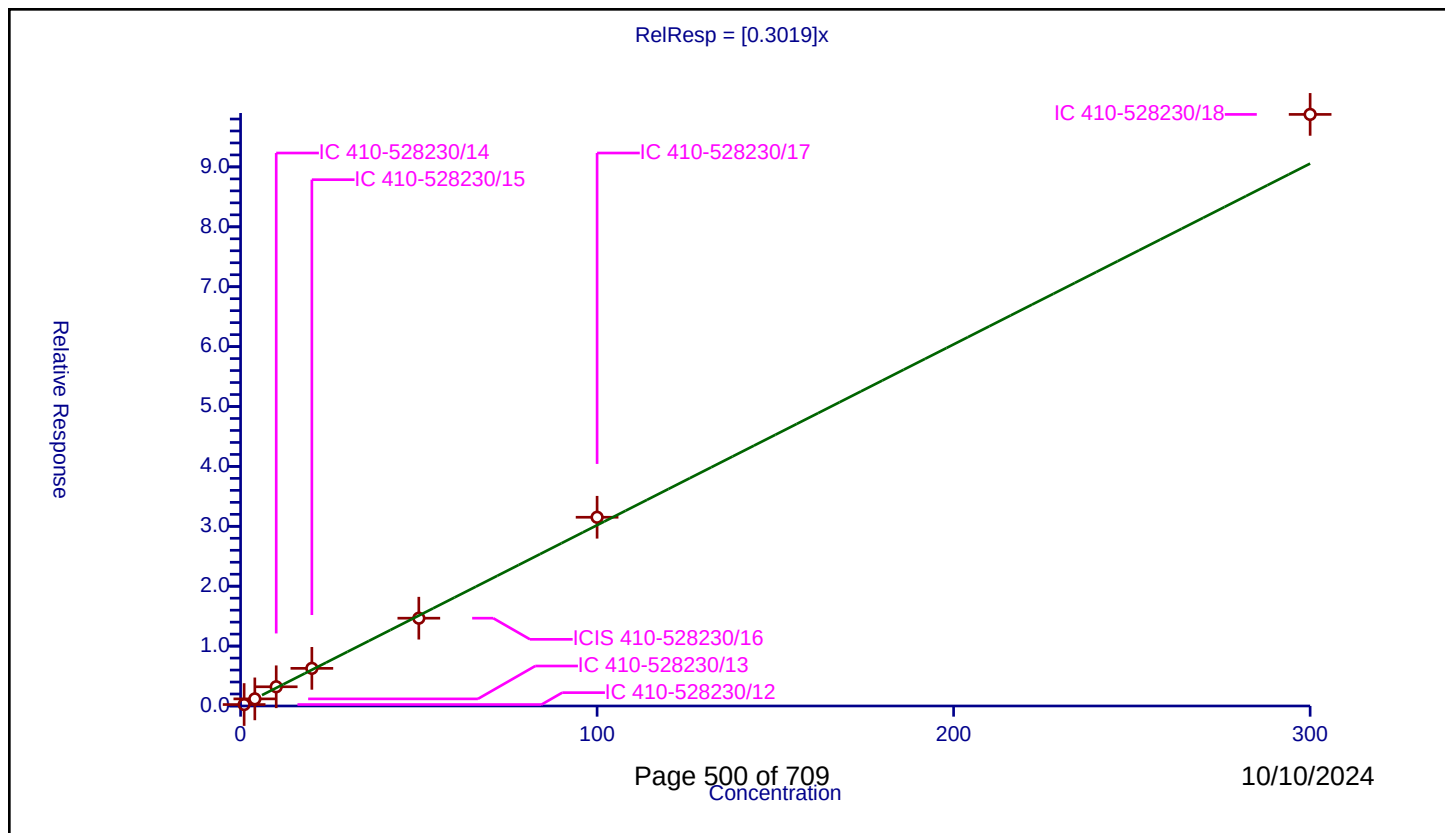
Curve Coefficients

Intercept: 0
Slope: 0.3019

Error Coefficients

Relative Standard Deviation: 9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.244567	50.0	1134043.0	0.244567	Y
2	IC 410-528230/13	4.0	1.18524	50.0	1142427.0	0.29631	Y
3	IC 410-528230/14	10.0	3.205747	50.0	1120550.0	0.320575	Y
4	IC 410-528230/15	20.0	6.283275	50.0	1130350.0	0.314164	Y
5	ICIS 410-528230/16	50.0	14.656884	50.0	1137735.0	0.293138	Y
6	IC 410-528230/17	100.0	31.507807	50.0	1135563.0	0.315078	Y
7	IC 410-528230/18	300.0	98.767286	50.0	1161340.0	0.329224	Y



Calibration

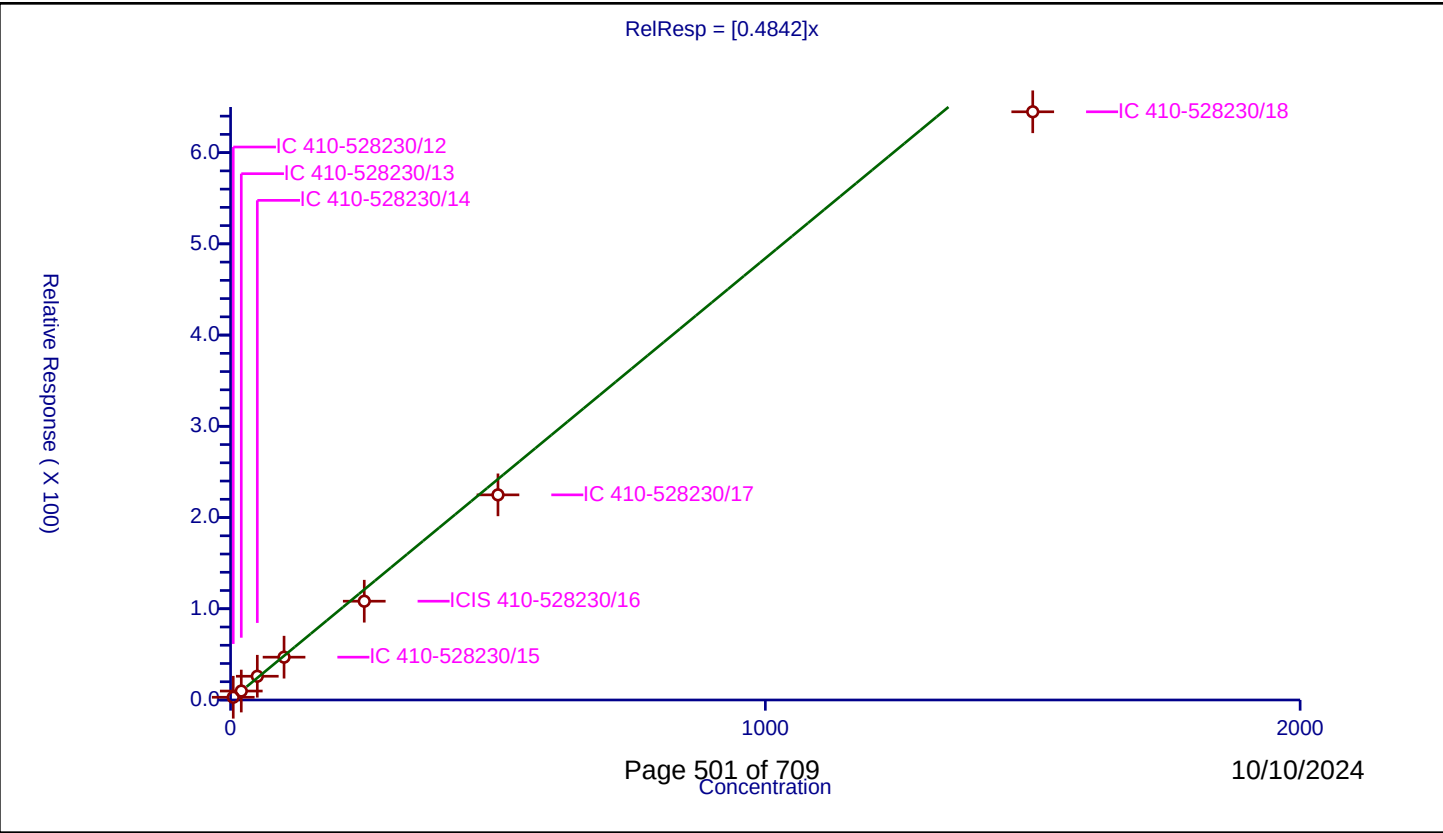
/ Isopropyl alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4842
Error Coefficients	

Relative Standard Deviation: 12.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	5.0	2.98393	250.0	280335.0	0.596786	Y
2	IC 410-528230/13	20.0	9.800775	250.0	286610.0	0.490039	Y
3	IC 410-528230/14	50.0	26.031439	250.0	282130.0	0.520629	Y
4	IC 410-528230/15	100.0	46.921896	250.0	293866.0	0.469219	Y
5	ICIS 410-528230/16	250.0	108.276235	250.0	295545.0	0.433105	Y
6	IC 410-528230/17	500.0	224.852287	250.0	300753.0	0.449705	Y
7	IC 410-528230/18	1500.0	644.767332	250.0	307262.0	0.429845	Y



Calibration

/ Iodomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

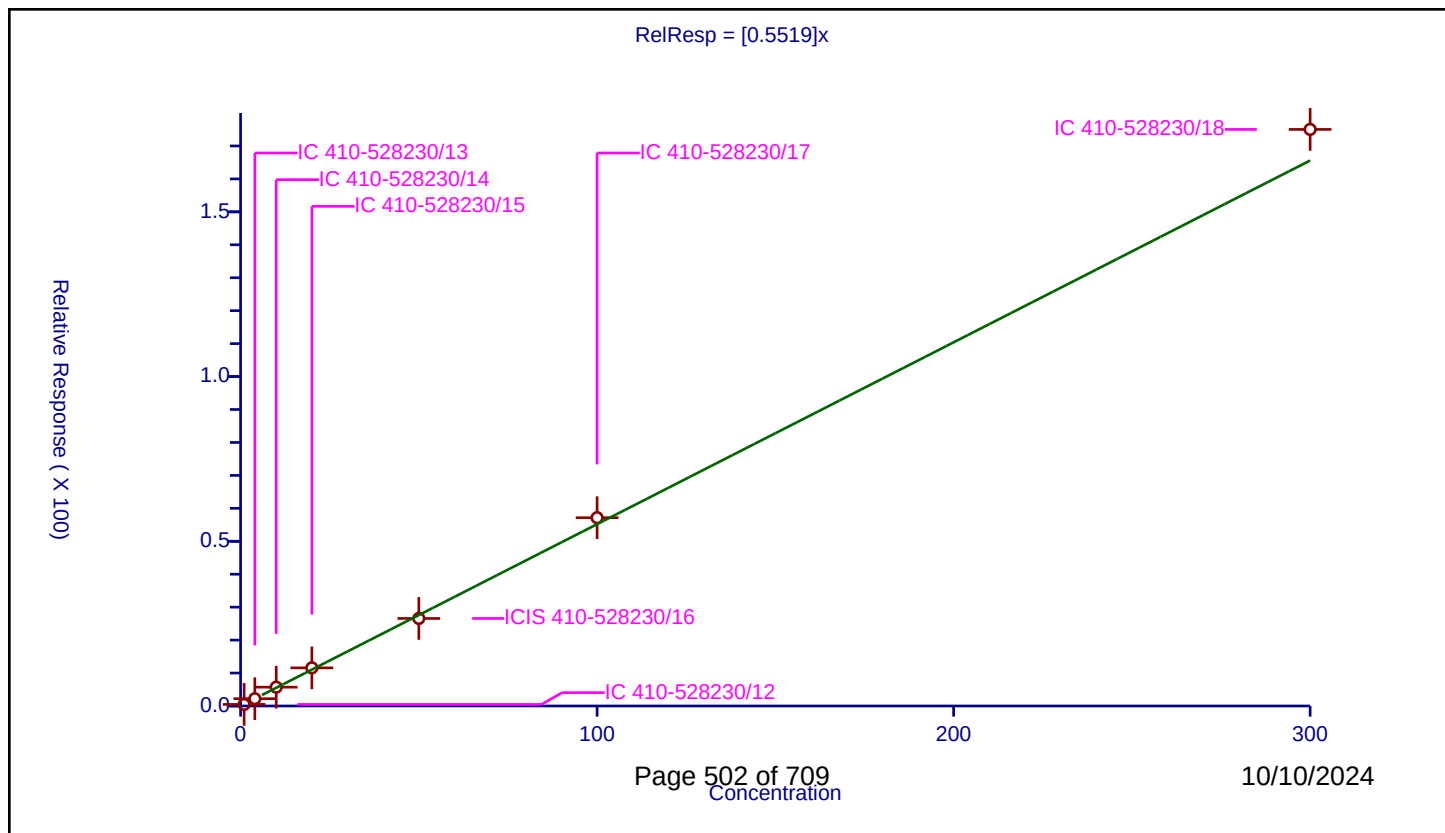
Curve Coefficients

Intercept: 0
 Slope: 0.5519

Error Coefficients

Relative Standard Deviation: 7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.473747	50.0	1134043.0	0.473747	Y
2	IC 410-528230/13	4.0	2.212964	50.0	1142427.0	0.553241	Y
3	IC 410-528230/14	10.0	5.714471	50.0	1120550.0	0.571447	Y
4	IC 410-528230/15	20.0	11.574203	50.0	1130350.0	0.57871	Y
5	ICIS 410-528230/16	50.0	26.569412	50.0	1137735.0	0.531388	Y
6	IC 410-528230/17	100.0	57.150946	50.0	1135563.0	0.571509	Y
7	IC 410-528230/18	300.0	175.019632	50.0	1161340.0	0.583399	Y



Calibration

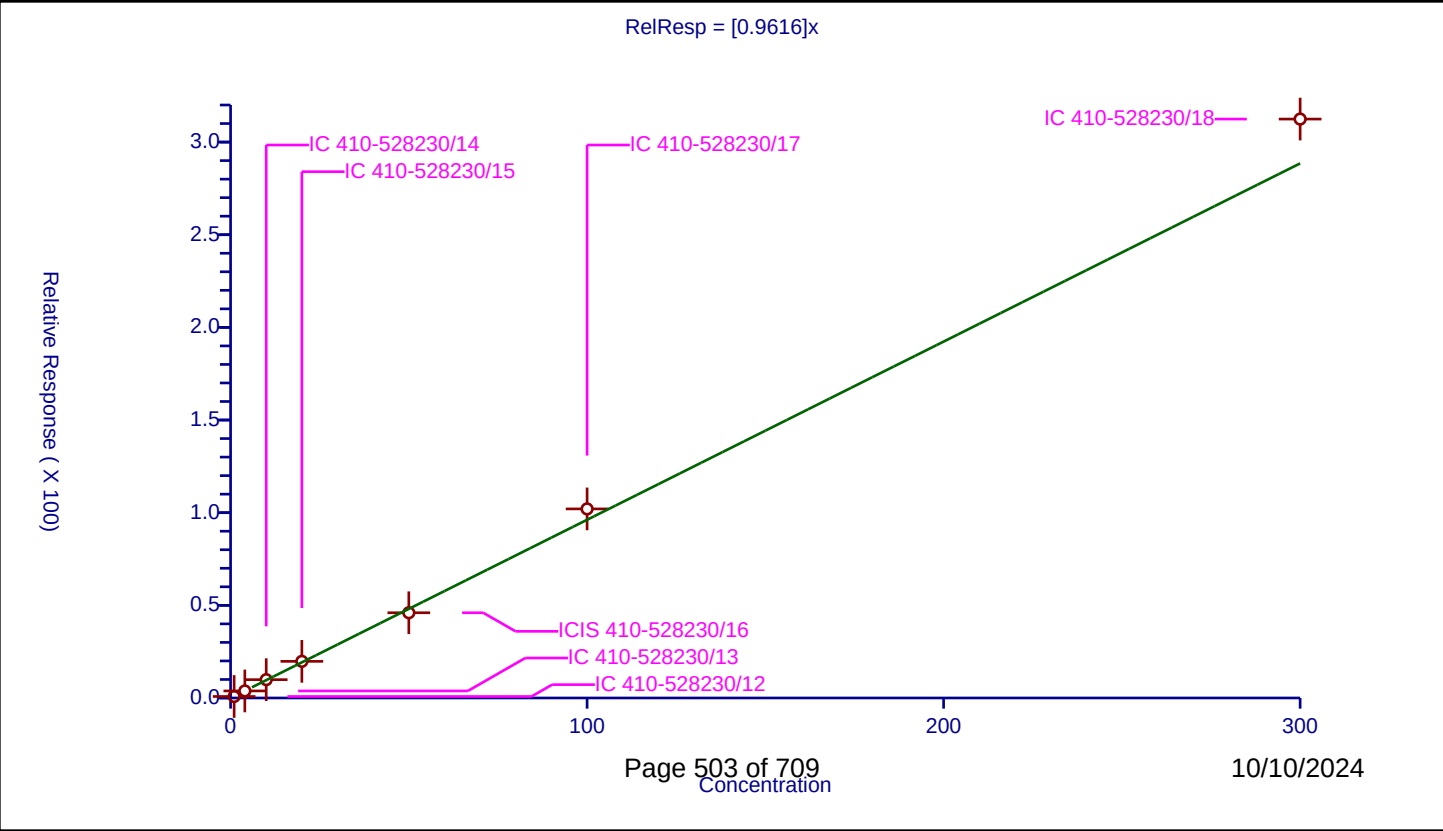
/ Carbon disulfide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9616
Error Coefficients	

Relative Standard Deviation: 7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.818576	50.0	1134043.0	0.818576	Y
2	IC 410-528230/13	4.0	3.812804	50.0	1142427.0	0.953201	Y
3	IC 410-528230/14	10.0	9.893891	50.0	1120550.0	0.989389	Y
4	IC 410-528230/15	20.0	19.769717	50.0	1130350.0	0.988486	Y
5	ICIS 410-528230/16	50.0	46.001222	50.0	1137735.0	0.920024	Y
6	IC 410-528230/17	100.0	102.0378	50.0	1135563.0	1.020378	Y
7	IC 410-528230/18	300.0	312.40963	50.0	1161340.0	1.041365	Y



Calibration

/ Methyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

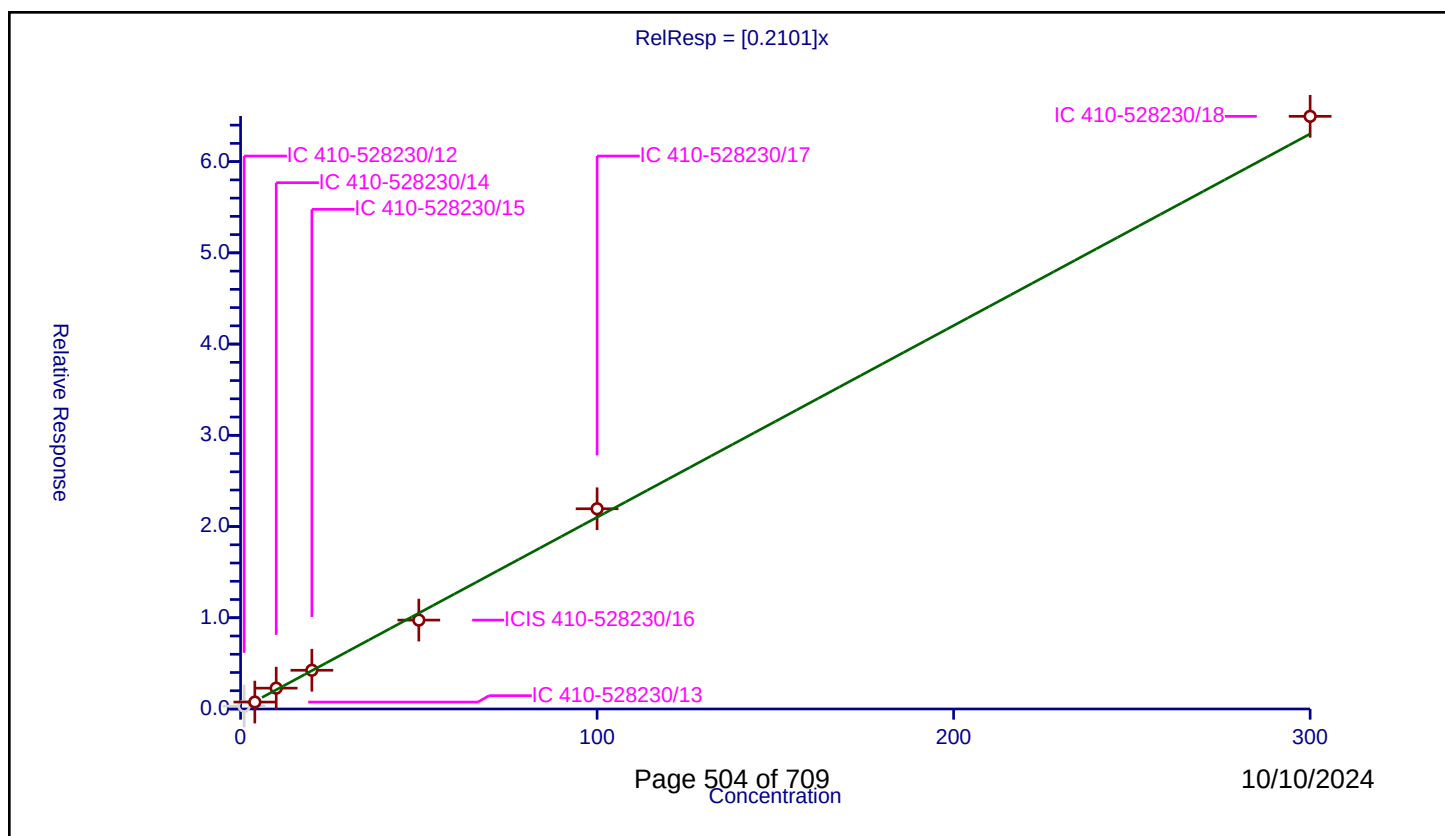
Curve Coefficients

Intercept: 0
Slope: 0.2101

Error Coefficients

Relative Standard Deviation: 7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.312819	50.0	1134043.0	0.312819	N
2	IC 410-528230/13	4.0	0.757204	50.0	1142427.0	0.189301	Y
3	IC 410-528230/14	10.0	2.283611	50.0	1120550.0	0.228361	Y
4	IC 410-528230/15	20.0	4.244703	50.0	1130350.0	0.212235	Y
5	ICIS 410-528230/16	50.0	9.745547	50.0	1137735.0	0.194911	Y
6	IC 410-528230/17	100.0	21.948012	50.0	1135563.0	0.21948	Y
7	IC 410-528230/18	300.0	64.965083	50.0	1161340.0	0.21655	Y



Calibration

/ 3-Chloro-1-propene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

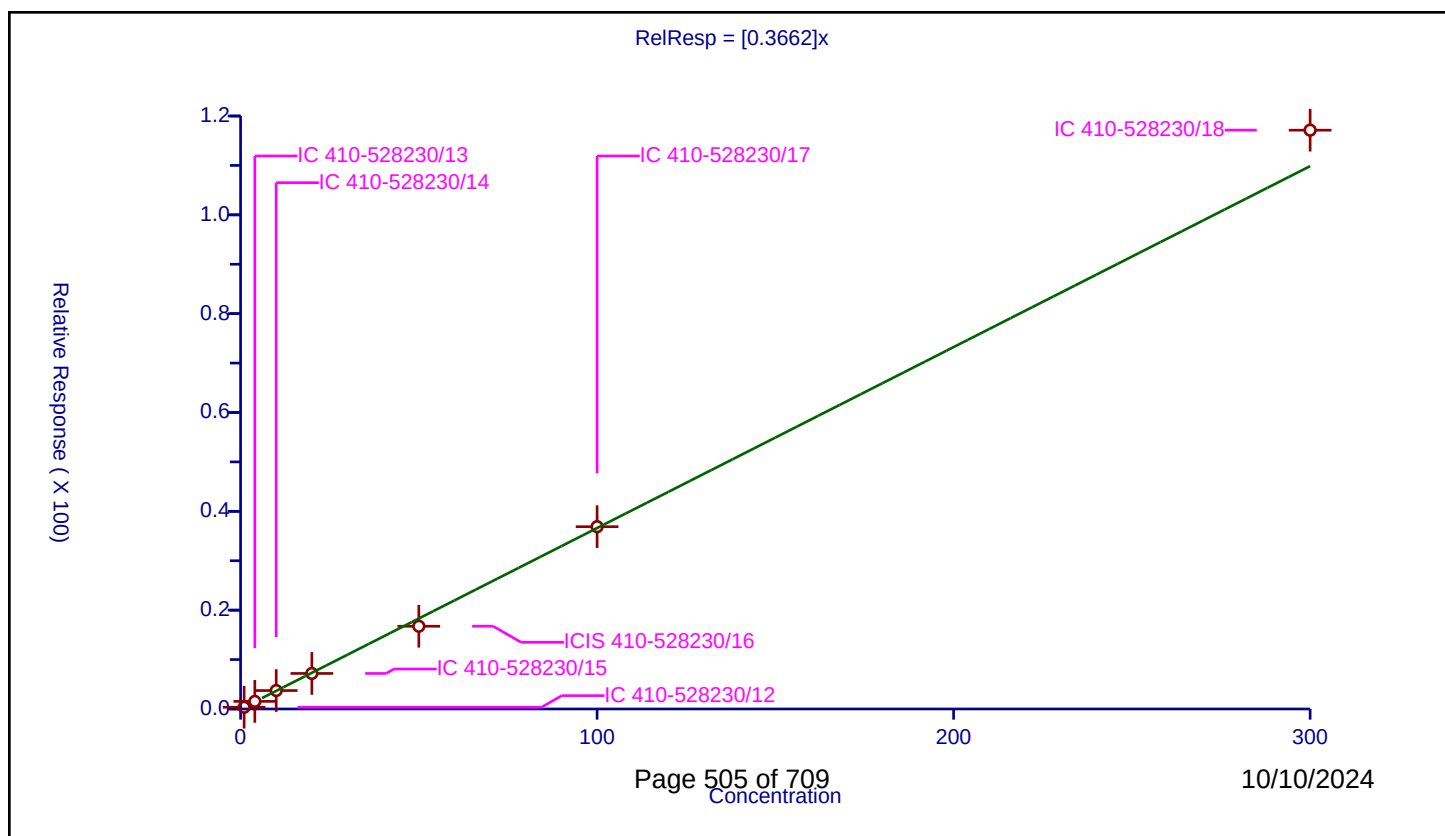
Curve Coefficients

Intercept: 0
Slope: 0.3662

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.351221	50.0	1134043.0	0.351221	Y
2	IC 410-528230/13	4.0	1.539661	50.0	1142427.0	0.384915	Y
3	IC 410-528230/14	10.0	3.731694	50.0	1120550.0	0.373169	Y
4	IC 410-528230/15	20.0	7.192728	50.0	1130350.0	0.359636	Y
5	ICIS 410-528230/16	50.0	16.743486	50.0	1137735.0	0.33487	Y
6	IC 410-528230/17	100.0	36.895443	50.0	1135563.0	0.368954	Y
7	IC 410-528230/18	300.0	117.13667	50.0	1161340.0	0.390456	Y



Calibration

/ Methylene Chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

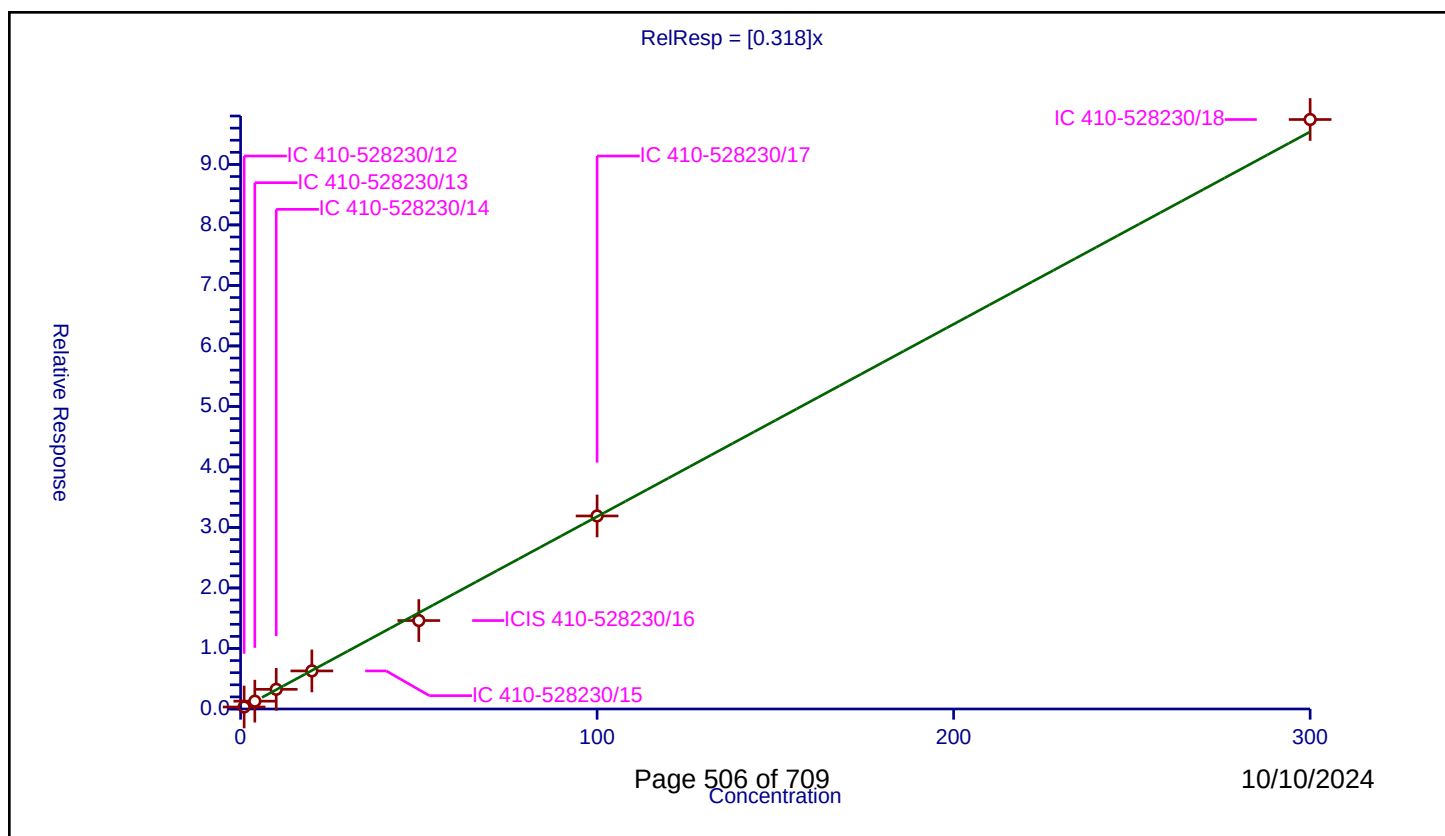
Curve Coefficients

Intercept: 0
Slope: 0.318

Error Coefficients

Relative Standard Deviation: 3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.327413	50.0	1134043.0	0.327413	Y
2	IC 410-528230/13	4.0	1.291636	50.0	1142427.0	0.322909	Y
3	IC 410-528230/14	10.0	3.248092	50.0	1120550.0	0.324809	Y
4	IC 410-528230/15	20.0	6.291458	50.0	1130350.0	0.314573	Y
5	ICIS 410-528230/16	50.0	14.614563	50.0	1137735.0	0.292291	Y
6	IC 410-528230/17	100.0	31.901444	50.0	1135563.0	0.319014	Y
7	IC 410-528230/18	300.0	97.421255	50.0	1161340.0	0.324738	Y



Calibration

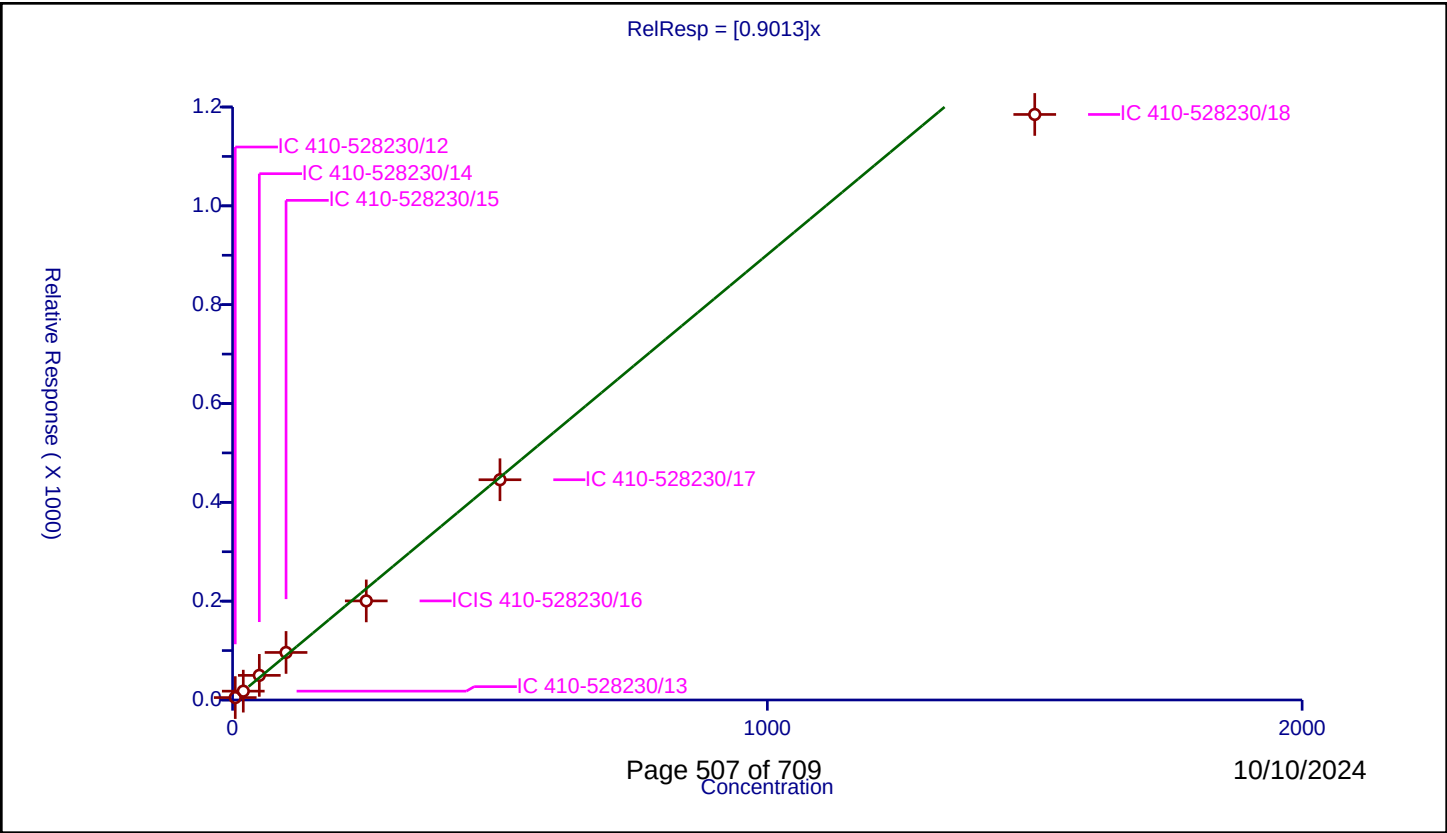
/ 2-Methyl-2-propanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9013
Error Coefficients	

Relative Standard Deviation: 9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	5.0	4.858473	250.0	280335.0	0.971695	Y
2	IC 410-528230/13	20.0	17.91546	250.0	286610.0	0.895773	Y
3	IC 410-528230/14	50.0	49.821005	250.0	282130.0	0.99642	Y
4	IC 410-528230/15	100.0	96.168832	250.0	293866.0	0.961688	Y
5	ICIS 410-528230/16	250.0	200.510921	250.0	295545.0	0.802044	Y
6	IC 410-528230/17	500.0	445.735371	250.0	300753.0	0.891471	Y
7	IC 410-528230/18	1500.0	1184.960229	250.0	307262.0	0.789973	Y

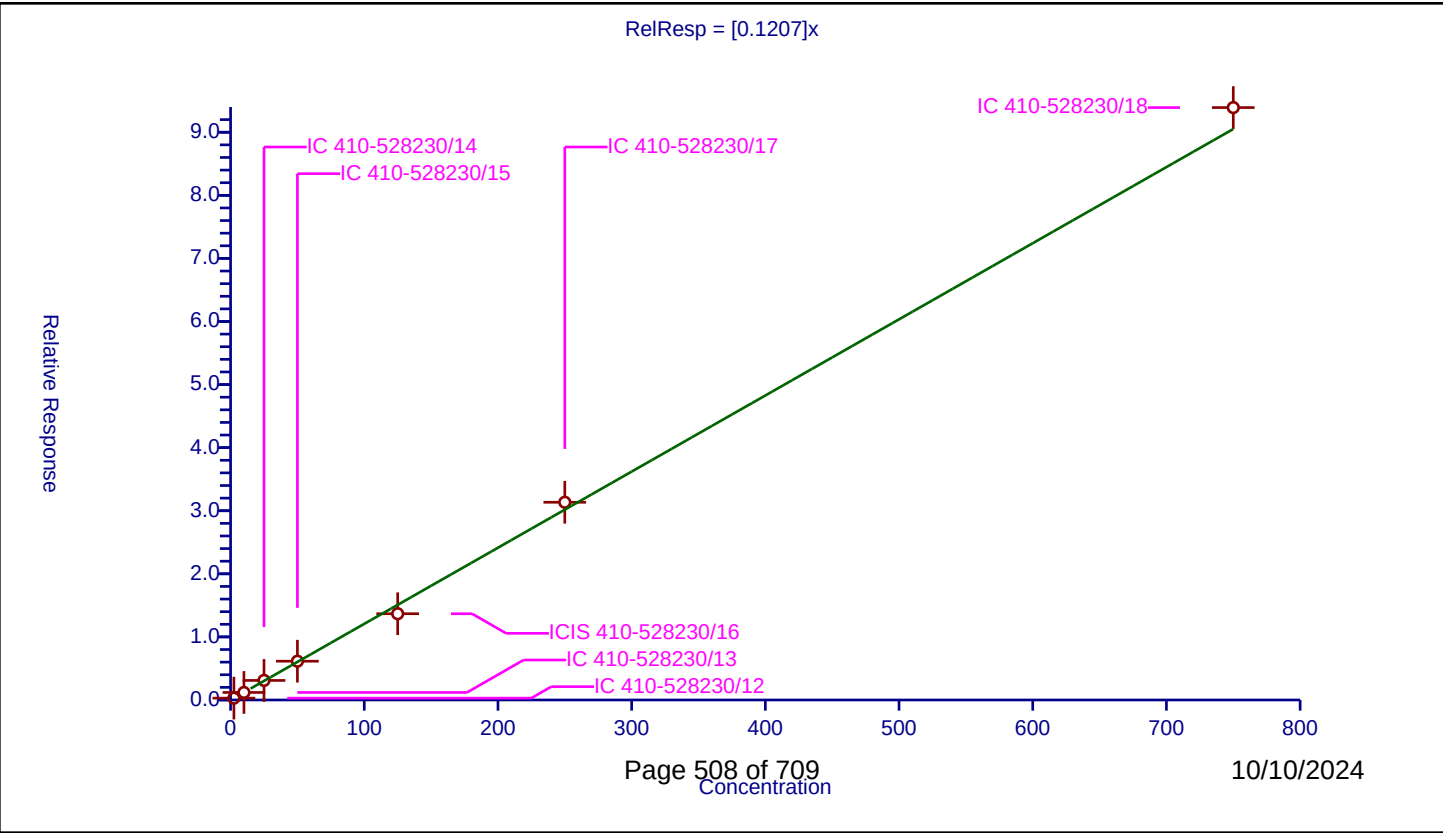


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1207
Error Coefficients	

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	2.5	0.295447	50.0	1134043.0	0.118179	Y
2	IC 410-528230/13	10.0	1.195831	50.0	1142427.0	0.119583	Y
3	IC 410-528230/14	25.0	3.101379	50.0	1120550.0	0.124055	Y
4	IC 410-528230/15	50.0	6.147963	50.0	1130350.0	0.122959	Y
5	ICIS 410-528230/16	125.0	13.674274	50.0	1137735.0	0.109394	Y
6	IC 410-528230/17	250.0	31.344584	50.0	1135563.0	0.125378	Y
7	IC 410-528230/18	750.0	93.910612	50.0	1161340.0	0.125214	Y



Calibration

/ Methyl tert-butyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

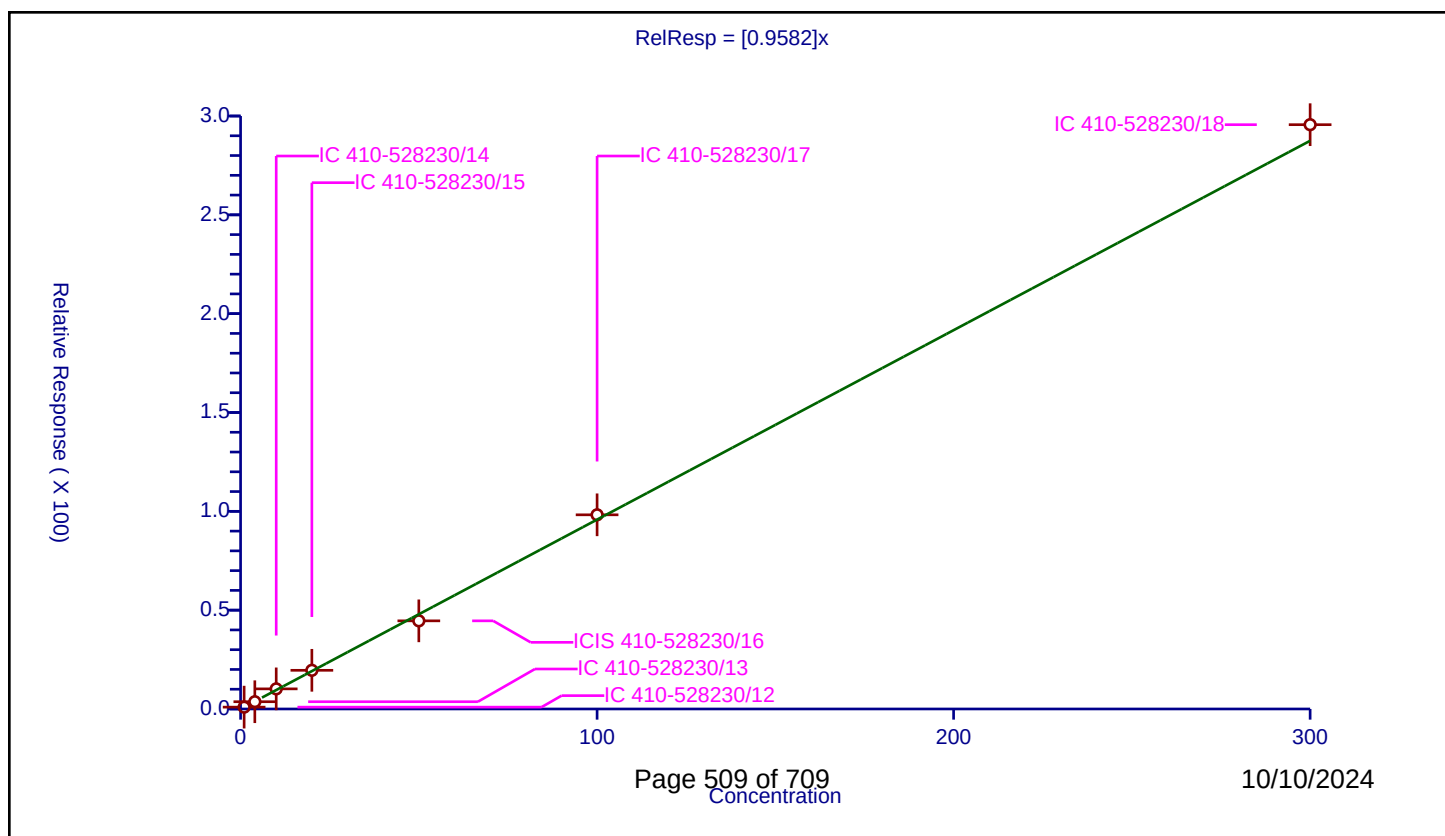
Curve Coefficients

Intercept: 0
Slope: 0.9582

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.933077	50.0	1134043.0	0.933077	Y
2	IC 410-528230/13	4.0	3.676515	50.0	1142427.0	0.919129	Y
3	IC 410-528230/14	10.0	10.175003	50.0	1120550.0	1.0175	Y
4	IC 410-528230/15	20.0	19.565444	50.0	1130350.0	0.978272	Y
5	ICIS 410-528230/16	50.0	44.596545	50.0	1137735.0	0.891931	Y
6	IC 410-528230/17	100.0	98.235237	50.0	1135563.0	0.982352	Y
7	IC 410-528230/18	300.0	295.61386	50.0	1161340.0	0.98538	Y



Calibration

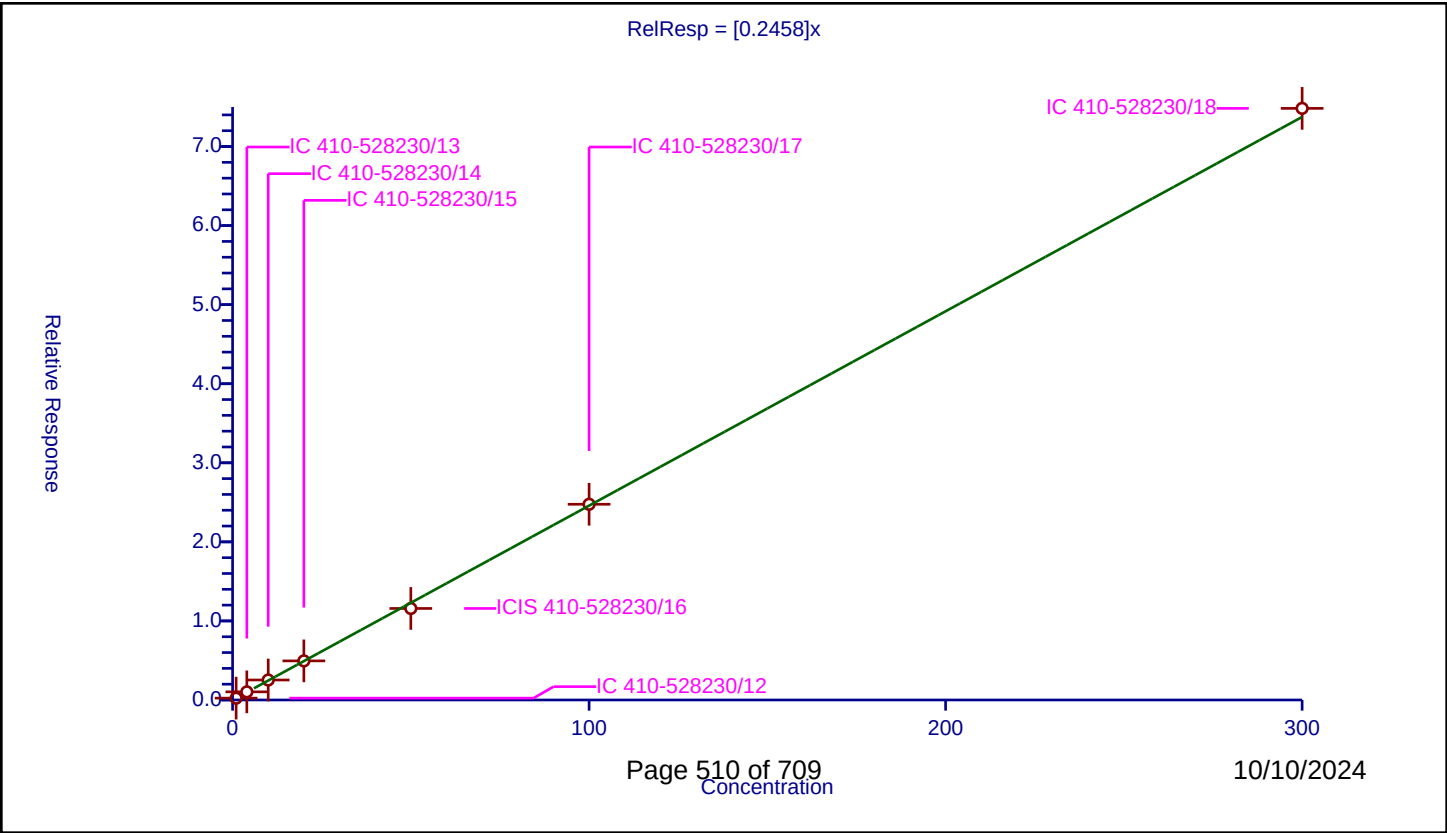
/ trans-1,2-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2458
Error Coefficients	

Relative Standard Deviation: 3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.234868	50.0	1134043.0	0.234868	Y
2	IC 410-528230/13	4.0	1.029431	50.0	1142427.0	0.257358	Y
3	IC 410-528230/14	10.0	2.526973	50.0	1120550.0	0.252697	Y
4	IC 410-528230/15	20.0	4.945636	50.0	1130350.0	0.247282	Y
5	ICIS 410-528230/16	50.0	11.575674	50.0	1137735.0	0.231513	Y
6	IC 410-528230/17	100.0	24.754417	50.0	1135563.0	0.247544	Y
7	IC 410-528230/18	300.0	74.828775	50.0	1161340.0	0.249429	Y



Calibration

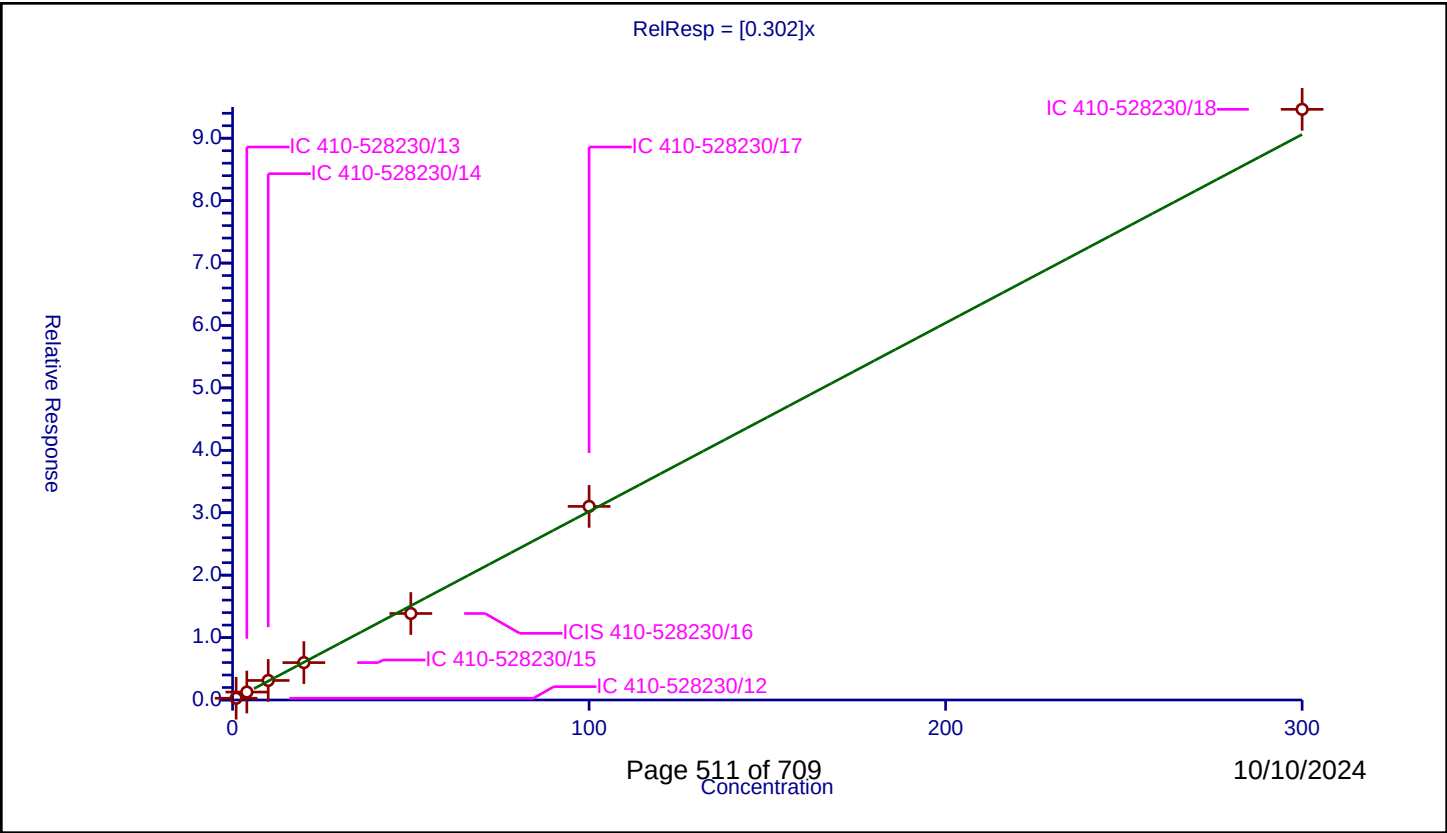
/ Hexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.302
Error Coefficients	

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.28103	50.0	1134043.0	0.28103	Y
2	IC 410-528230/13	4.0	1.27286	50.0	1142427.0	0.318215	Y
3	IC 410-528230/14	10.0	3.127482	50.0	1120550.0	0.312748	Y
4	IC 410-528230/15	20.0	5.987968	50.0	1130350.0	0.299398	Y
5	ICIS 410-528230/16	50.0	13.857752	50.0	1137735.0	0.277155	Y
6	IC 410-528230/17	100.0	31.012678	50.0	1135563.0	0.310127	Y
7	IC 410-528230/18	300.0	94.628446	50.0	1161340.0	0.315428	Y



Calibration

/ 1,1-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

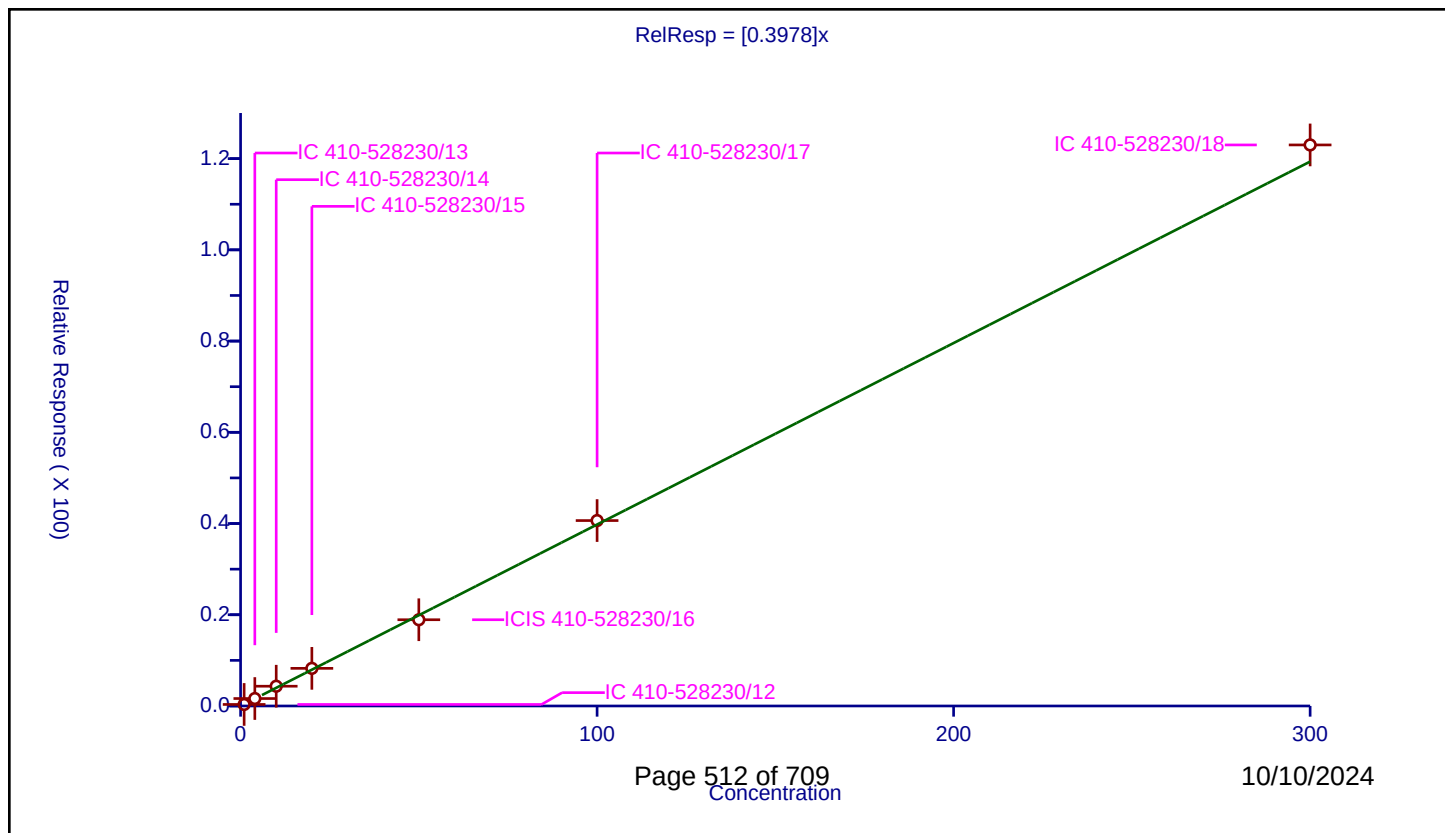
Curve Coefficients

Intercept: 0
Slope: 0.3978

Error Coefficients

Relative Standard Deviation: 8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.33579	50.0	1134043.0	0.33579	Y
2	IC 410-528230/13	4.0	1.63284	50.0	1142427.0	0.40821	Y
3	IC 410-528230/14	10.0	4.335639	50.0	1120550.0	0.433564	Y
4	IC 410-528230/15	20.0	8.251736	50.0	1130350.0	0.412587	Y
5	ICIS 410-528230/16	50.0	18.909588	50.0	1137735.0	0.378192	Y
6	IC 410-528230/17	100.0	40.649704	50.0	1135563.0	0.406497	Y
7	IC 410-528230/18	300.0	123.002006	50.0	1161340.0	0.410007	Y



Calibration

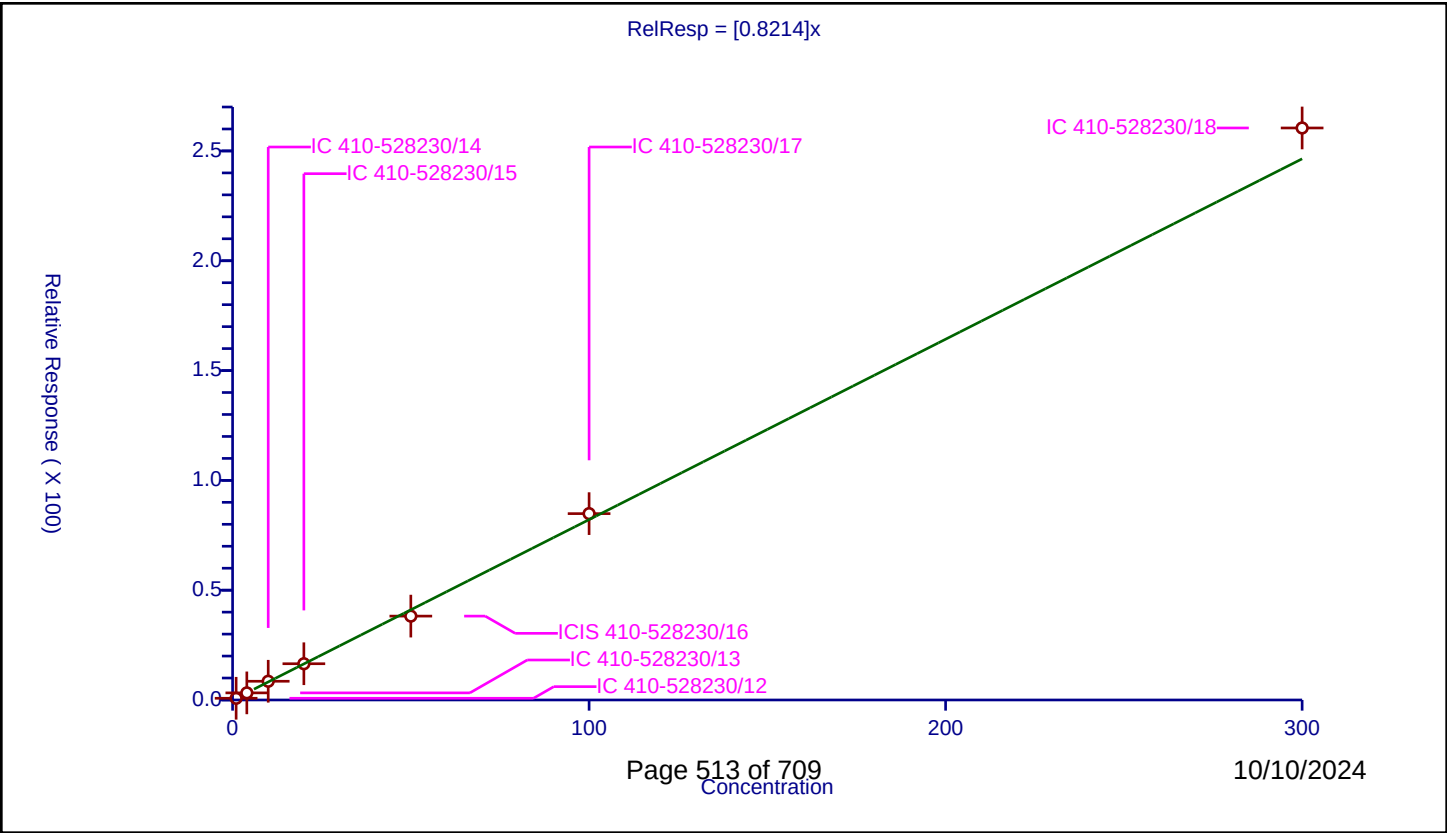
/ Isopropyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8214
Error Coefficients	

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.782245	50.0	1134043.0	0.782245	Y
2	IC 410-528230/13	4.0	3.233161	50.0	1142427.0	0.80829	Y
3	IC 410-528230/14	10.0	8.532819	50.0	1120550.0	0.853282	Y
4	IC 410-528230/15	20.0	16.502322	50.0	1130350.0	0.825116	Y
5	ICIS 410-528230/16	50.0	38.192505	50.0	1137735.0	0.76385	Y
6	IC 410-528230/17	100.0	84.856719	50.0	1135563.0	0.848567	Y
7	IC 410-528230/18	300.0	260.454819	50.0	1161340.0	0.868183	Y



Calibration

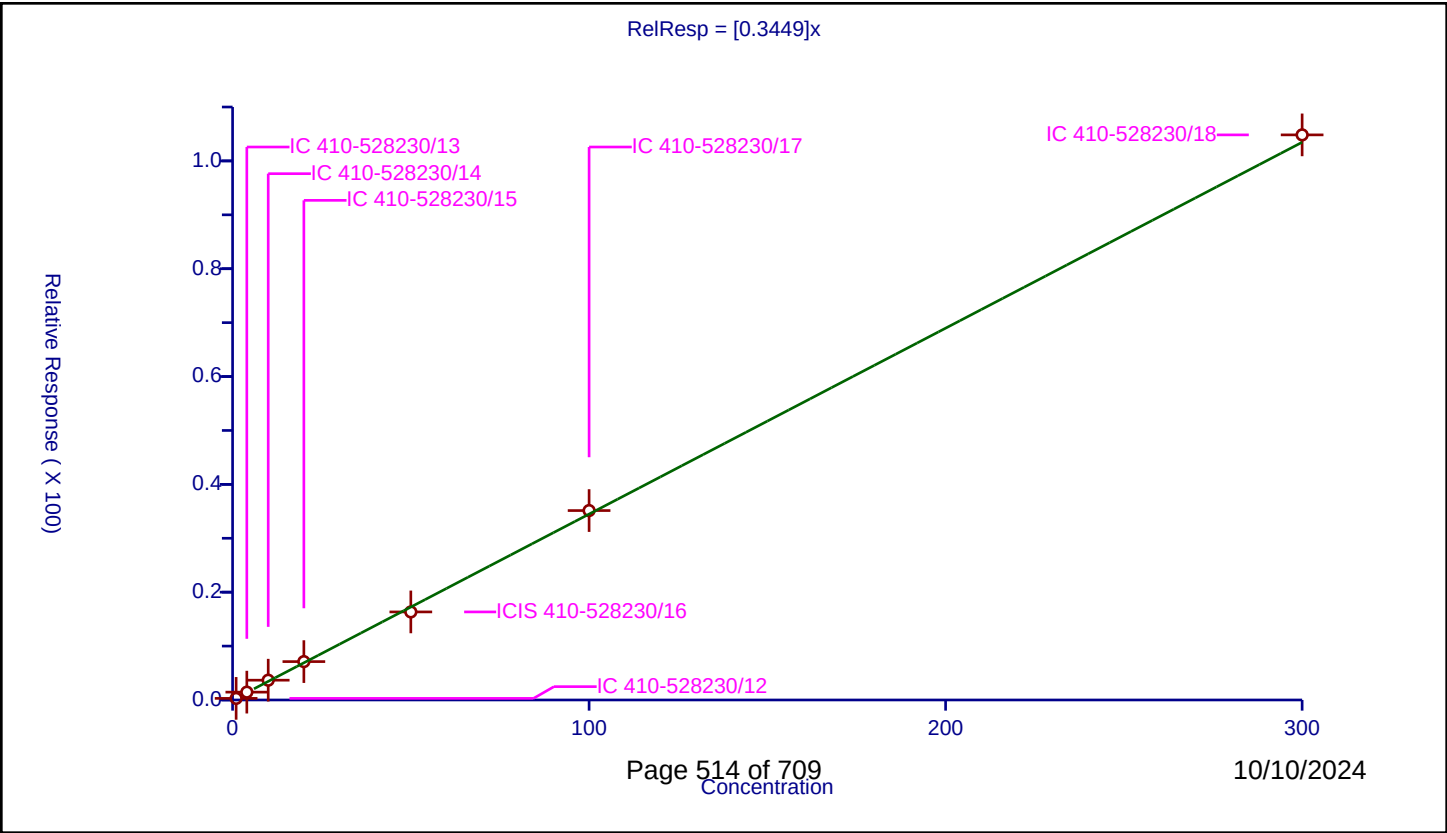
/ 2-Chloro-1,3-butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3449
Error Coefficients	

Relative Standard Deviation: 7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.298622	50.0	1134043.0	0.298622	Y
2	IC 410-528230/13	4.0	1.458693	50.0	1142427.0	0.364673	Y
3	IC 410-528230/14	10.0	3.671902	50.0	1120550.0	0.36719	Y
4	IC 410-528230/15	20.0	7.12014	50.0	1130350.0	0.356007	Y
5	ICIS 410-528230/16	50.0	16.337416	50.0	1137735.0	0.326748	Y
6	IC 410-528230/17	100.0	35.137813	50.0	1135563.0	0.351378	Y
7	IC 410-528230/18	300.0	104.832177	50.0	1161340.0	0.349441	Y



Calibration

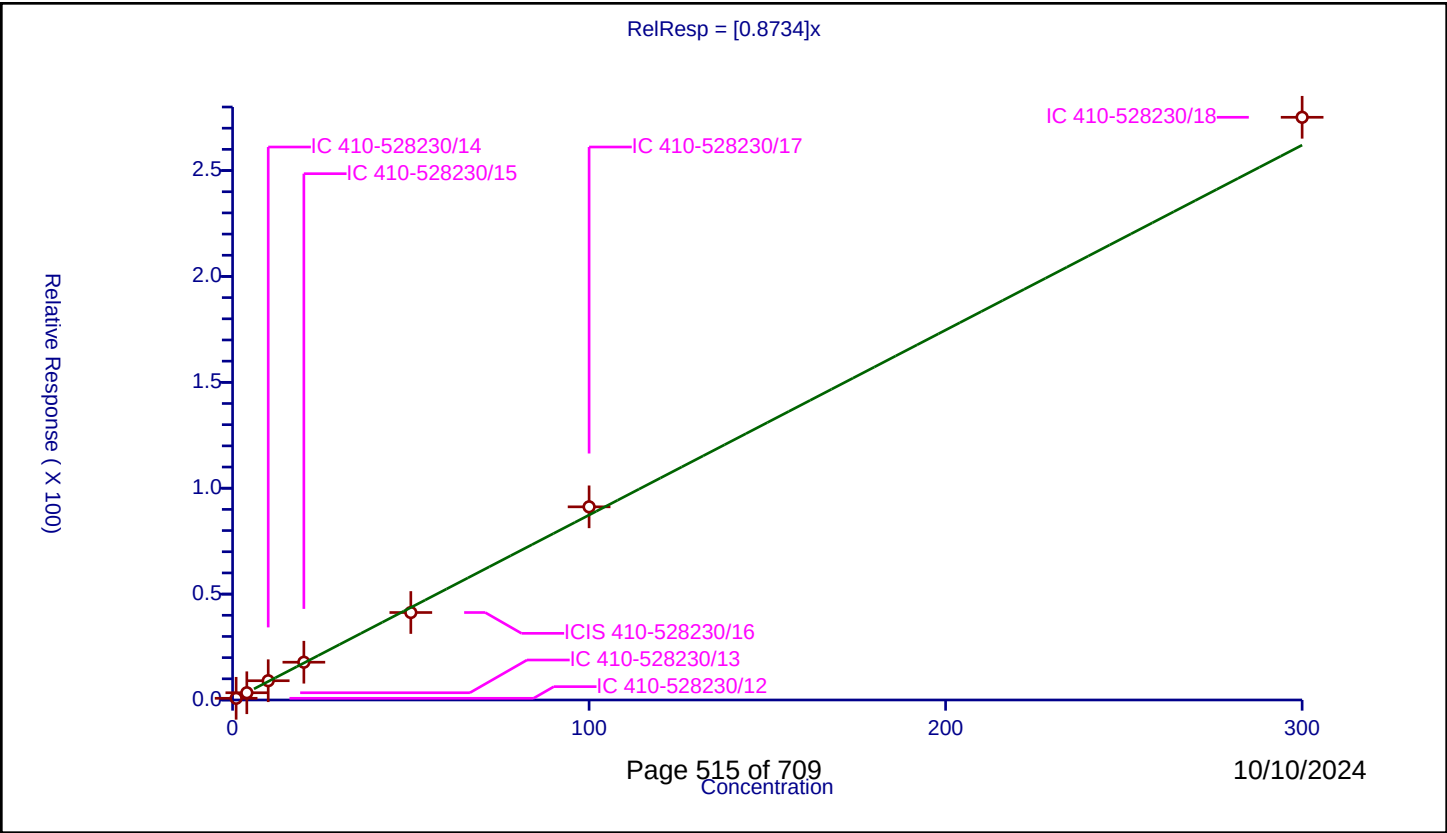
/ Tert-butyl ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8734
Error Coefficients	

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.802615	50.0	1134043.0	0.802615	Y
2	IC 410-528230/13	4.0	3.417024	50.0	1142427.0	0.854256	Y
3	IC 410-528230/14	10.0	9.09415	50.0	1120550.0	0.909415	Y
4	IC 410-528230/15	20.0	17.836732	50.0	1130350.0	0.891837	Y
5	ICIS 410-528230/16	50.0	41.312388	50.0	1137735.0	0.826248	Y
6	IC 410-528230/17	100.0	91.211276	50.0	1135563.0	0.912113	Y
7	IC 410-528230/18	300.0	275.151721	50.0	1161340.0	0.917172	Y



Calibration

/ 2-Butanone (MEK)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

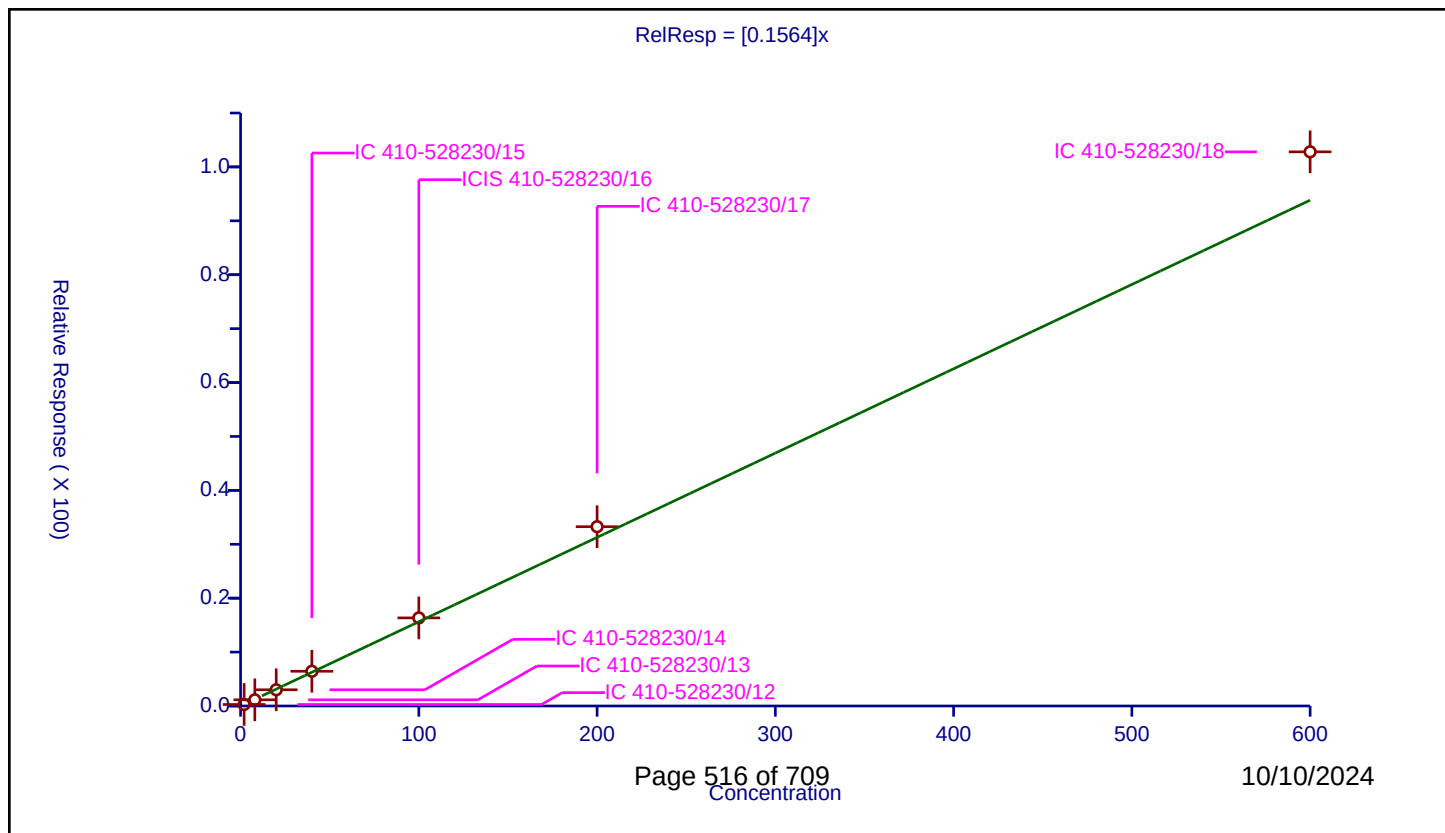
Curve Coefficients

Intercept: 0
Slope: 0.1564

Error Coefficients

Relative Standard Deviation: 7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	2.0	0.277811	50.0	1134043.0	0.138906	Y
2	IC 410-528230/13	8.0	1.144625	50.0	1142427.0	0.143078	Y
3	IC 410-528230/14	20.0	3.011289	50.0	1120550.0	0.150564	Y
4	IC 410-528230/15	40.0	6.442208	50.0	1130350.0	0.161055	Y
5	ICIS 410-528230/16	100.0	16.341459	50.0	1137735.0	0.163415	Y
6	IC 410-528230/17	200.0	33.260418	50.0	1135563.0	0.166302	Y
7	IC 410-528230/18	600.0	102.79918	50.0	1161340.0	0.171332	Y



Calibration

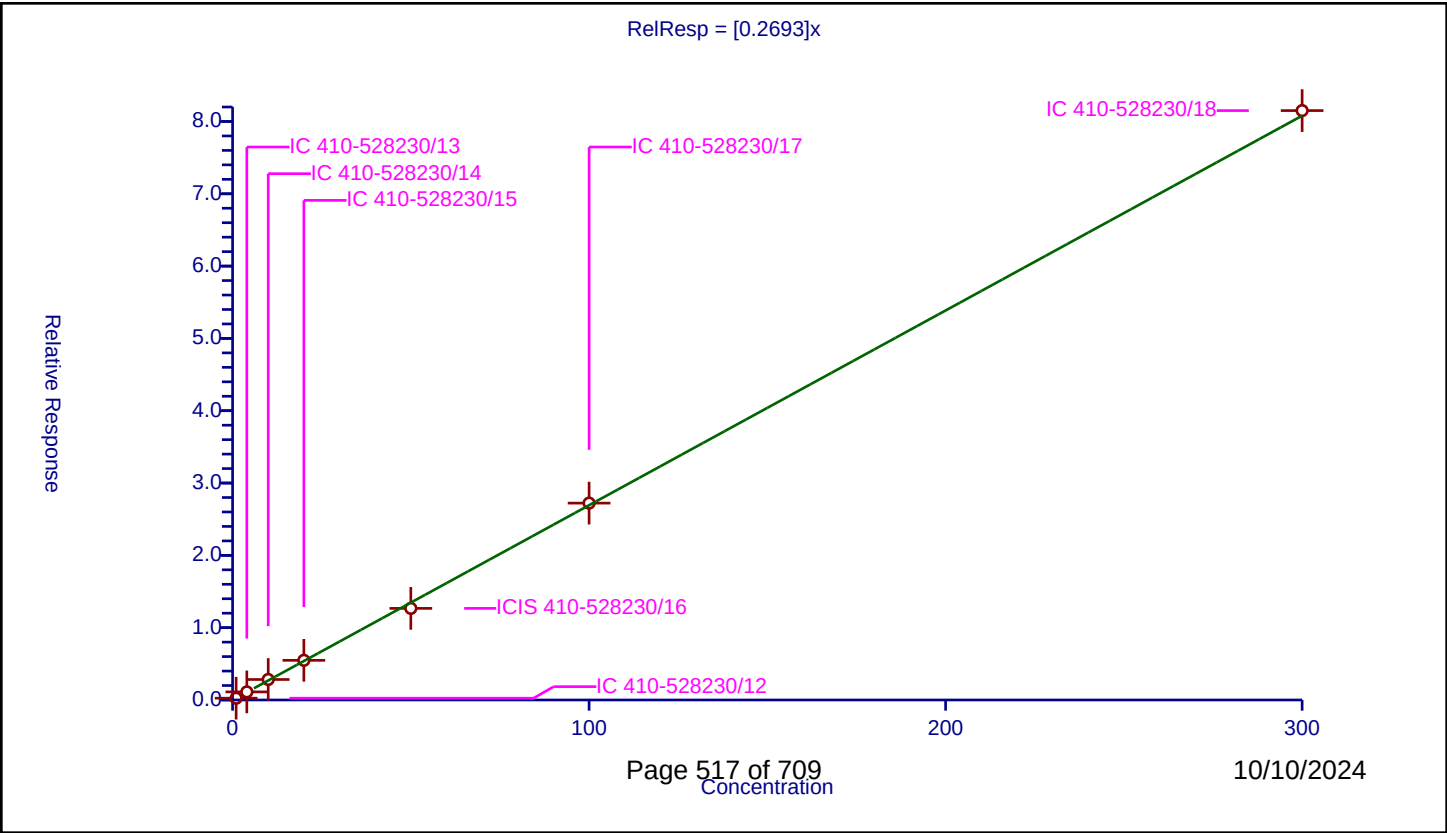
/ cis-1,2-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2693
Error Coefficients	

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.250476	50.0	1134043.0	0.250476	Y
2	IC 410-528230/13	4.0	1.119546	50.0	1142427.0	0.279887	Y
3	IC 410-528230/14	10.0	2.833162	50.0	1120550.0	0.283316	Y
4	IC 410-528230/15	20.0	5.483611	50.0	1130350.0	0.274181	Y
5	ICIS 410-528230/16	50.0	12.670086	50.0	1137735.0	0.253402	Y
6	IC 410-528230/17	100.0	27.224998	50.0	1135563.0	0.27225	Y
7	IC 410-528230/18	300.0	81.505976	50.0	1161340.0	0.271687	Y



Calibration

/ 2,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

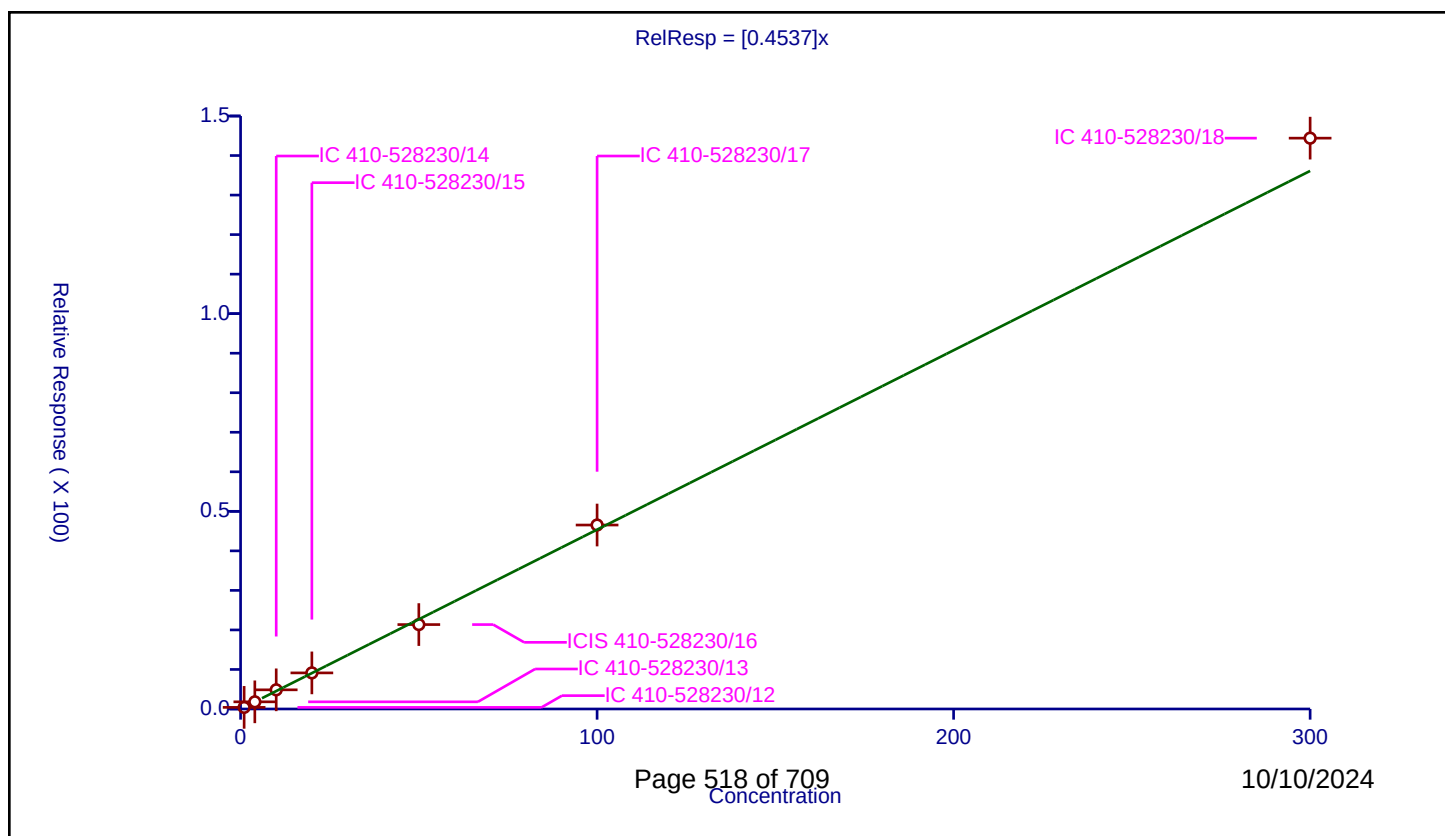
Curve Coefficients

Intercept: 0
Slope: 0.4537

Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.407568	50.0	1134043.0	0.407568	Y
2	IC 410-528230/13	4.0	1.812238	50.0	1142427.0	0.45306	Y
3	IC 410-528230/14	10.0	4.849137	50.0	1120550.0	0.484914	Y
4	IC 410-528230/15	20.0	9.13195	50.0	1130350.0	0.456598	Y
5	ICIS 410-528230/16	50.0	21.354402	50.0	1137735.0	0.427088	Y
6	IC 410-528230/17	100.0	46.534538	50.0	1135563.0	0.465345	Y
7	IC 410-528230/18	300.0	144.402544	50.0	1161340.0	0.481342	Y



Calibration

/ Propionitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

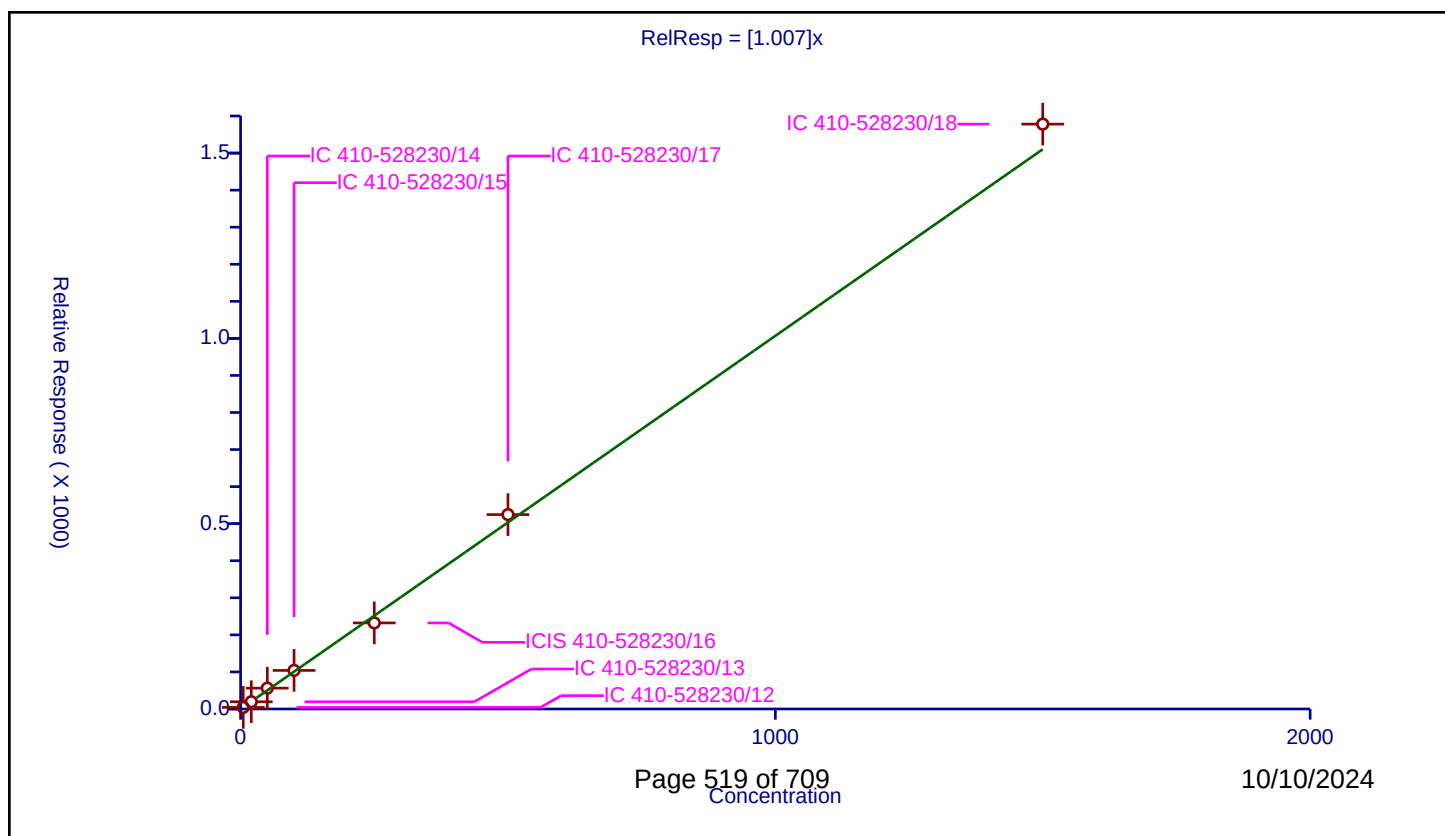
Curve Coefficients

Intercept: 0
Slope: 1.007

Error Coefficients

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	5.0	4.372447	250.0	280335.0	0.874489	Y
2	IC 410-528230/13	20.0	19.54398	250.0	286610.0	0.977199	Y
3	IC 410-528230/14	50.0	56.265729	250.0	282130.0	1.125315	Y
4	IC 410-528230/15	100.0	104.071243	250.0	293866.0	1.040712	Y
5	ICIS 410-528230/16	250.0	232.220982	250.0	295545.0	0.928884	Y
6	IC 410-528230/17	500.0	524.52594	250.0	300753.0	1.049052	Y
7	IC 410-528230/18	1500.0	1578.160495	250.0	307262.0	1.052107	Y



Calibration

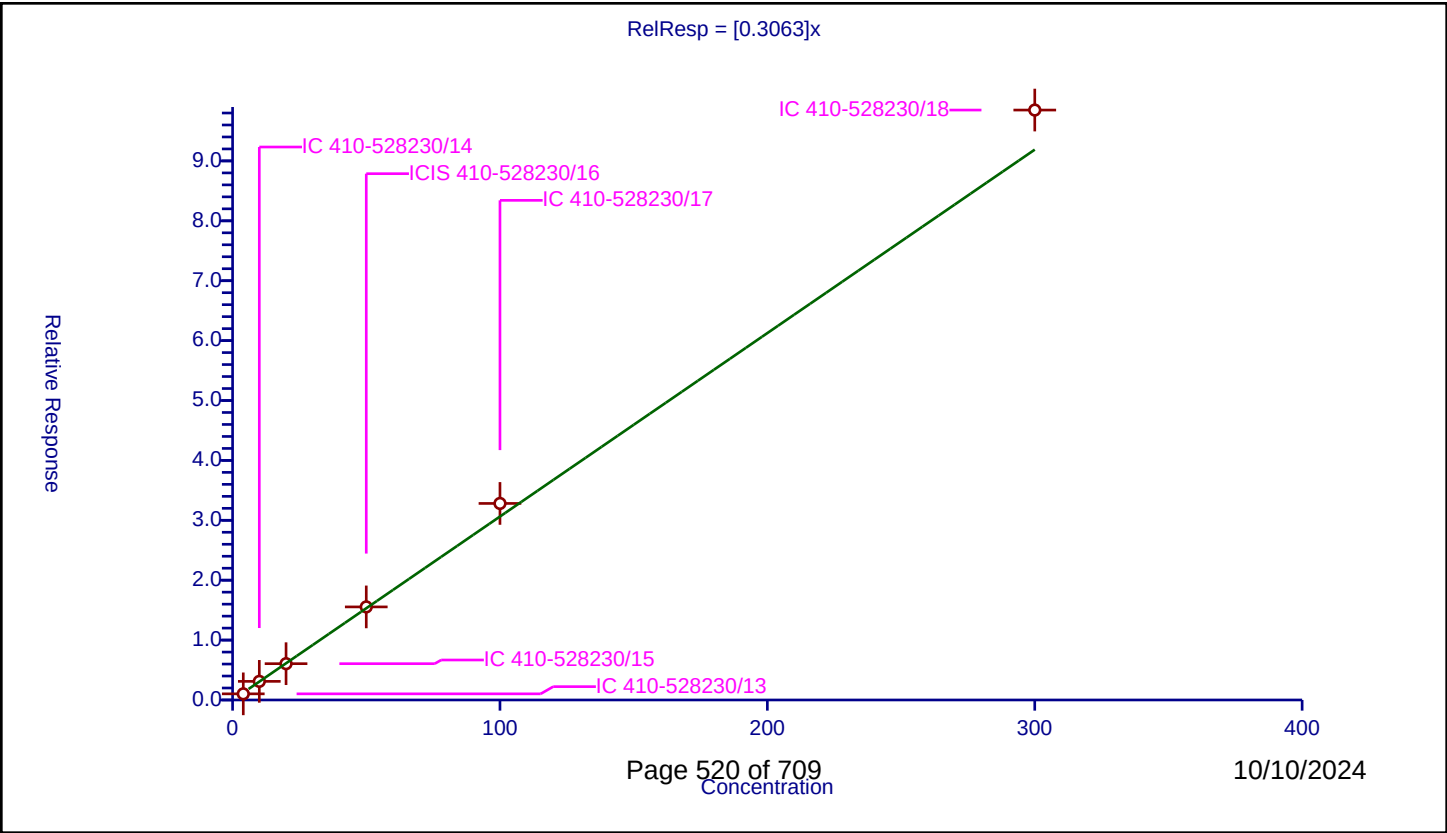
/ Methyl acrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3063
Error Coefficients	

Relative Standard Deviation: 8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/13	4.000191	1.024923	50.0	1142427.0	0.256219	Y
2	IC 410-528230/14	10.000478	3.111642	50.0	1120550.0	0.311149	Y
3	IC 410-528230/15	20.000956	6.061087	50.0	1130350.0	0.30304	Y
4	ICIS 410-528230/16	50.00239	15.541844	50.0	1137735.0	0.310822	Y
5	IC 410-528230/17	100.00478	32.812534	50.0	1135563.0	0.32811	Y
6	IC 410-528230/18	300.01434	98.492302	50.0	1161340.0	0.328292	Y

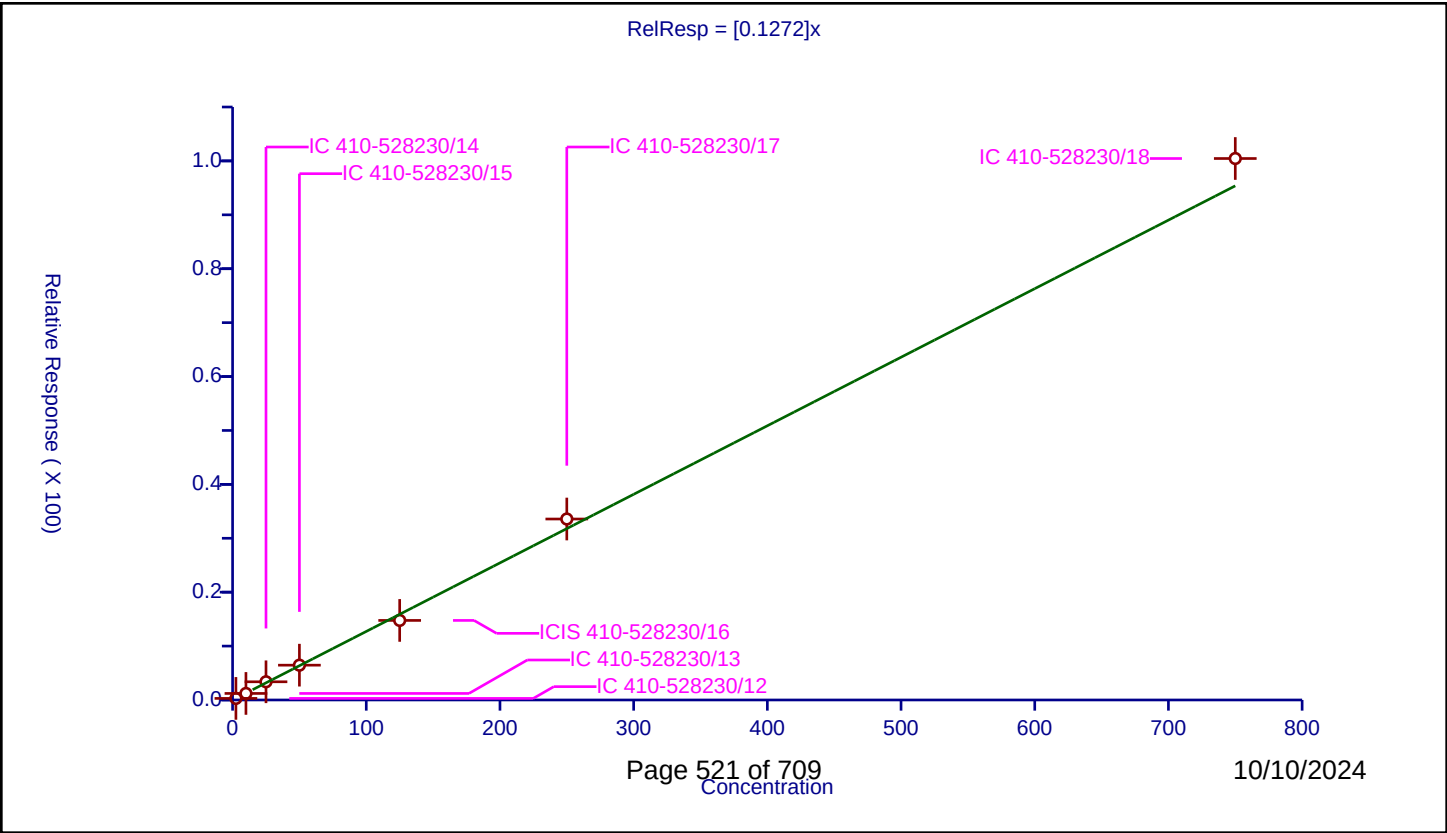


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1272
Error Coefficients	

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	2.5	0.295051	50.0	1134043.0	0.11802	Y
2	IC 410-528230/13	10.0	1.215395	50.0	1142427.0	0.121539	Y
3	IC 410-528230/14	25.0	3.378564	50.0	1120550.0	0.135143	Y
4	IC 410-528230/15	50.0	6.458752	50.0	1130350.0	0.129175	Y
5	ICIS 410-528230/16	125.0	14.760994	50.0	1137735.0	0.118088	Y
6	IC 410-528230/17	250.0	33.570528	50.0	1135563.0	0.134282	Y
7	IC 410-528230/18	750.0	100.4475	50.0	1161340.0	0.13393	Y



Calibration

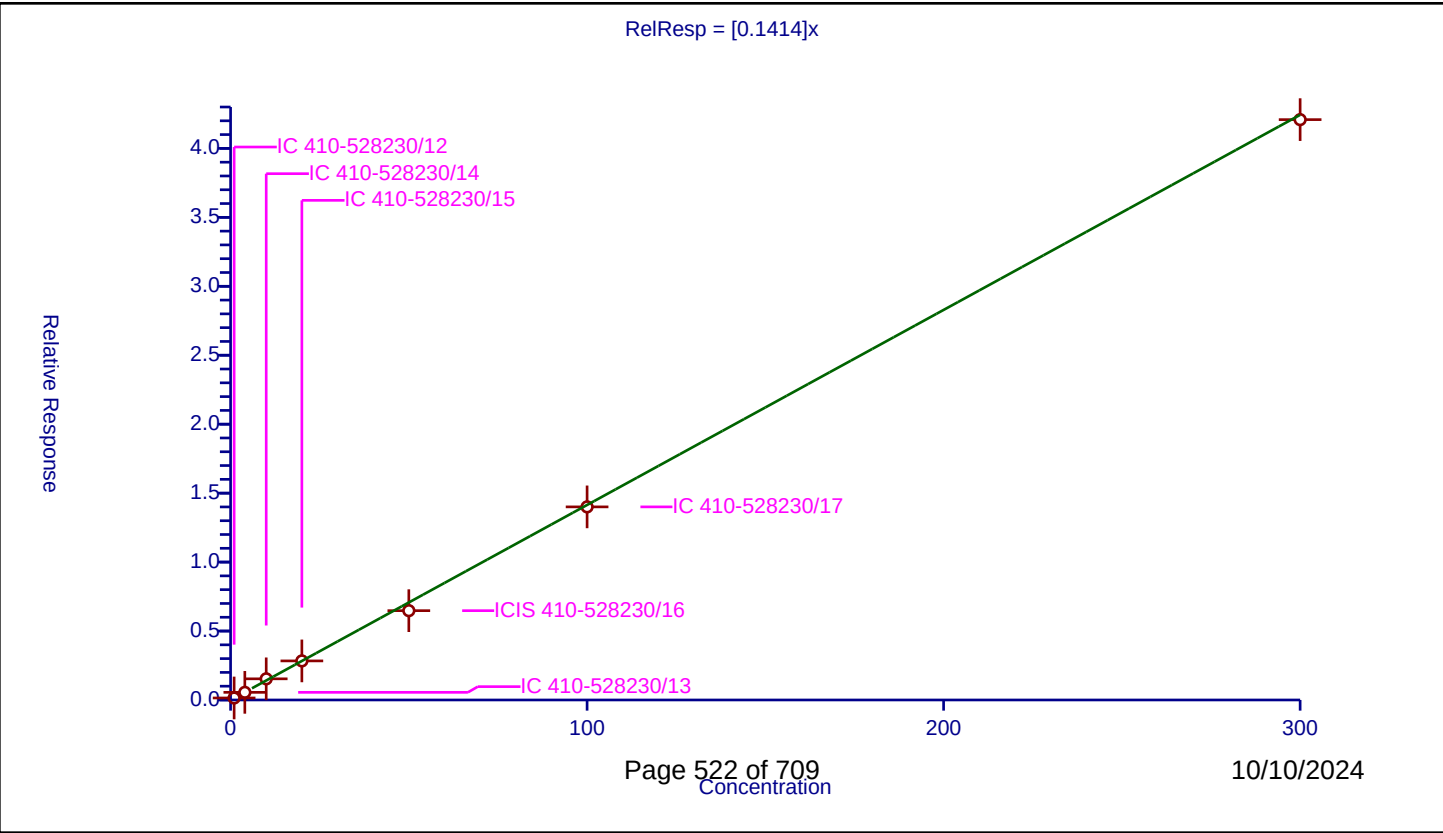
/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1414
Error Coefficients	

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.146864	50.0	1134043.0	0.146864	Y
2	IC 410-528230/13	4.0	0.553121	50.0	1142427.0	0.13828	Y
3	IC 410-528230/14	10.0	1.533577	50.0	1120550.0	0.153358	Y
4	IC 410-528230/15	20.0	2.833237	50.0	1130350.0	0.141662	Y
5	ICIS 410-528230/16	50.0	6.476684	50.0	1137735.0	0.129534	Y
6	IC 410-528230/17	100.0	14.002349	50.0	1135563.0	0.140023	Y
7	IC 410-528230/18	300.0	42.08535	50.0	1161340.0	0.140284	Y



Calibration

/ Tetrahydrofuran

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

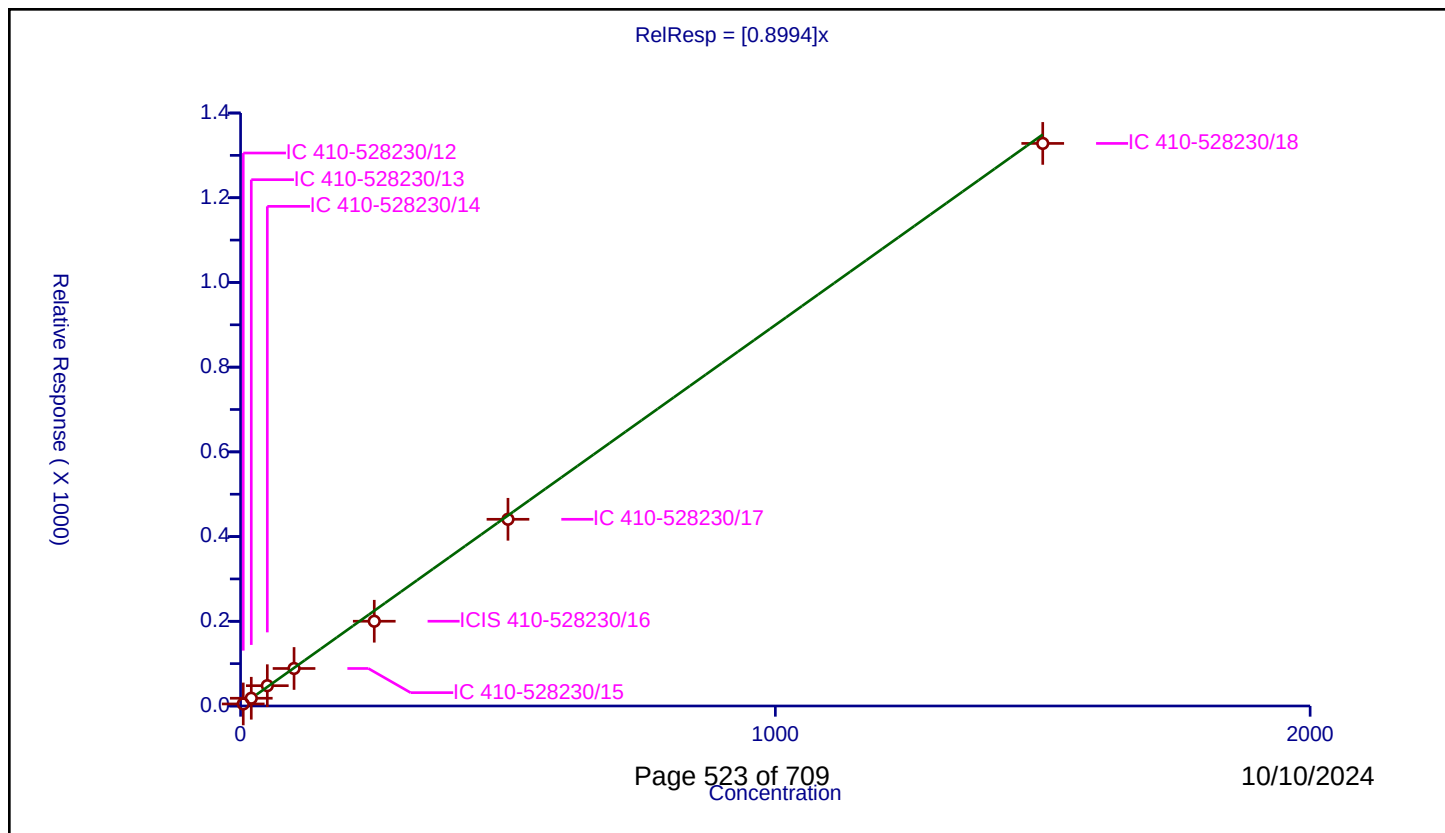
Curve Coefficients

Intercept: 0
Slope: 0.8994

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	5.0	4.844204	250.0	280335.0	0.968841	Y
2	IC 410-528230/13	20.0	18.30449	250.0	286610.0	0.915225	Y
3	IC 410-528230/14	50.0	47.935349	250.0	282130.0	0.958707	Y
4	IC 410-528230/15	100.0	88.572683	250.0	293866.0	0.885727	Y
5	ICIS 410-528230/16	250.0	200.141264	250.0	295545.0	0.800565	Y
6	IC 410-528230/17	500.0	440.801089	250.0	300753.0	0.881602	Y
7	IC 410-528230/18	1500.0	1328.215009	250.0	307262.0	0.885477	Y



Calibration

/ Chloroform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

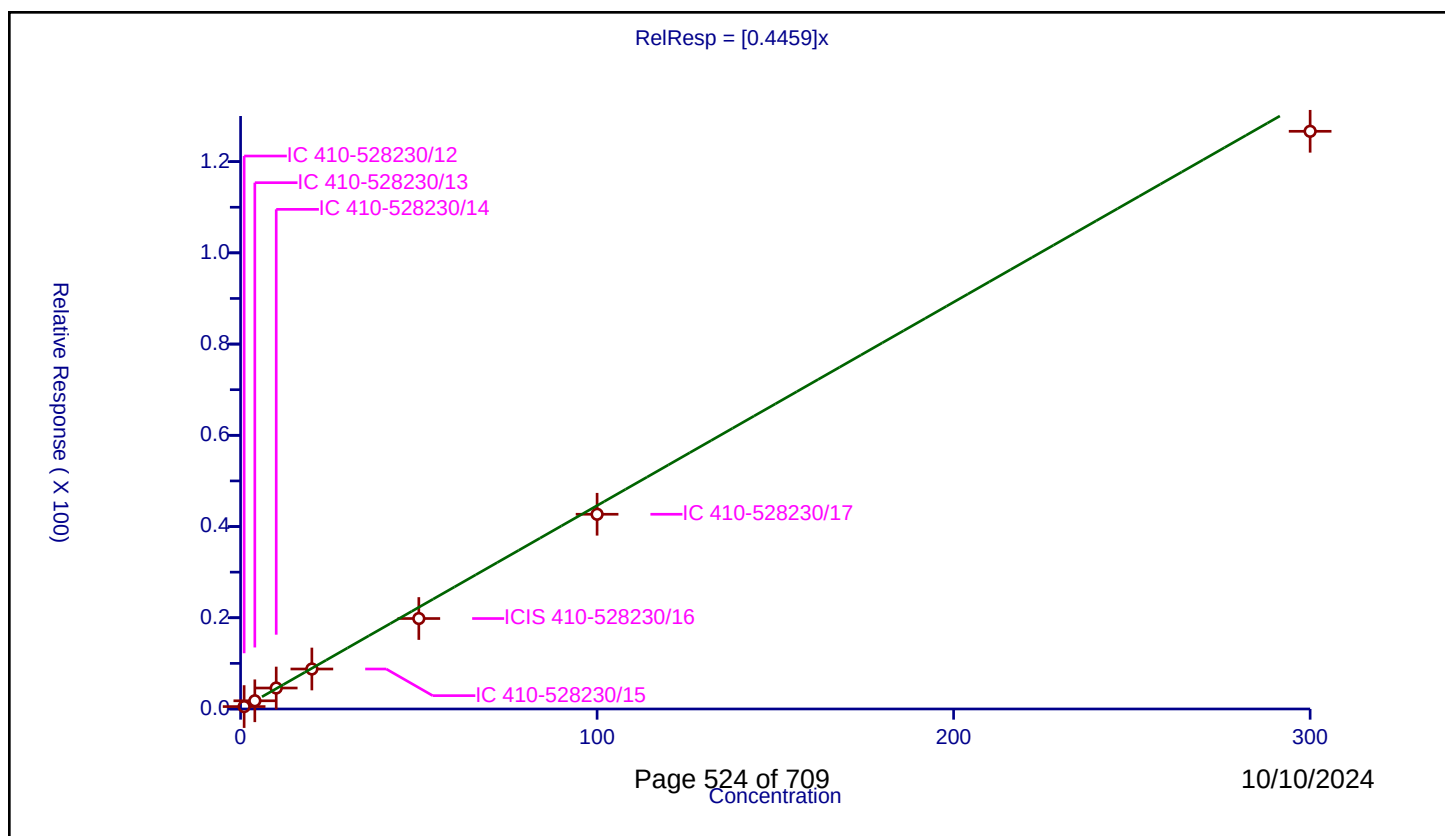
Curve Coefficients

Intercept: 0
Slope: 0.4459

Error Coefficients

Relative Standard Deviation: 9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.528684	50.0	1134043.0	0.528684	Y
2	IC 410-528230/13	4.0	1.796264	50.0	1142427.0	0.449066	Y
3	IC 410-528230/14	10.0	4.599304	50.0	1120550.0	0.45993	Y
4	IC 410-528230/15	20.0	8.764852	50.0	1130350.0	0.438243	Y
5	ICIS 410-528230/16	50.0	19.830672	50.0	1137735.0	0.396613	Y
6	IC 410-528230/17	100.0	42.691731	50.0	1135563.0	0.426917	Y
7	IC 410-528230/18	300.0	126.652617	50.0	1161340.0	0.422175	Y



Calibration

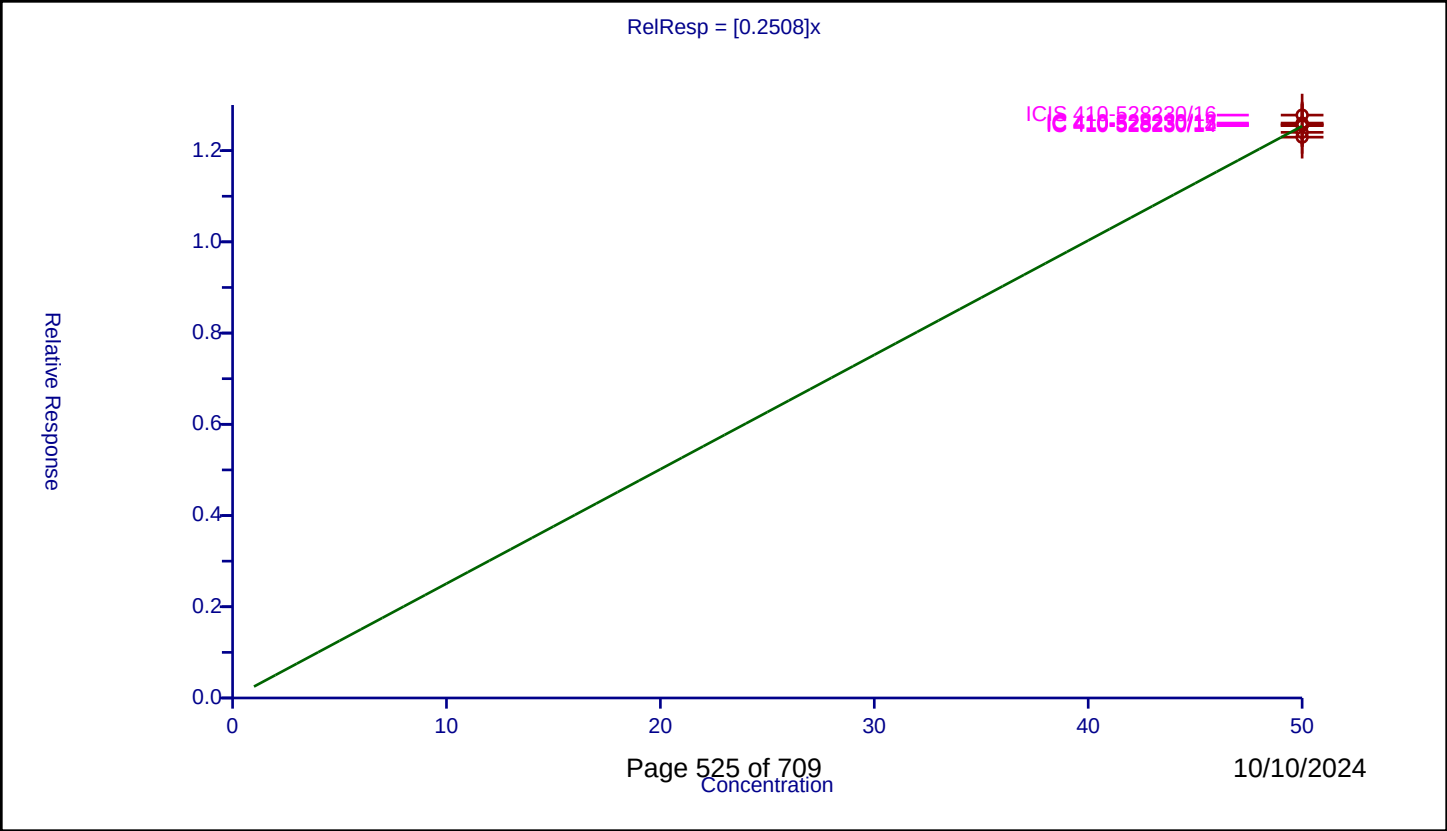
/ Dibromofluoromethane (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2508
Error Coefficients	

Relative Standard Deviation: 1.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	50.0	12.555785	50.0	1134043.0	0.251116	Y
2	IC 410-528230/13	50.0	12.400617	50.0	1142427.0	0.248012	Y
3	IC 410-528230/14	50.0	12.547677	50.0	1120550.0	0.250954	Y
4	IC 410-528230/15	50.0	12.581546	50.0	1130350.0	0.251631	Y
5	ICIS 410-528230/16	50.0	12.779118	50.0	1137735.0	0.255582	Y
6	IC 410-528230/17	50.0	12.604321	50.0	1135563.0	0.252086	Y
7	IC 410-528230/18	50.0	12.294677	50.0	1161340.0	0.245894	Y



Calibration

/ 1,1,1-Trichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

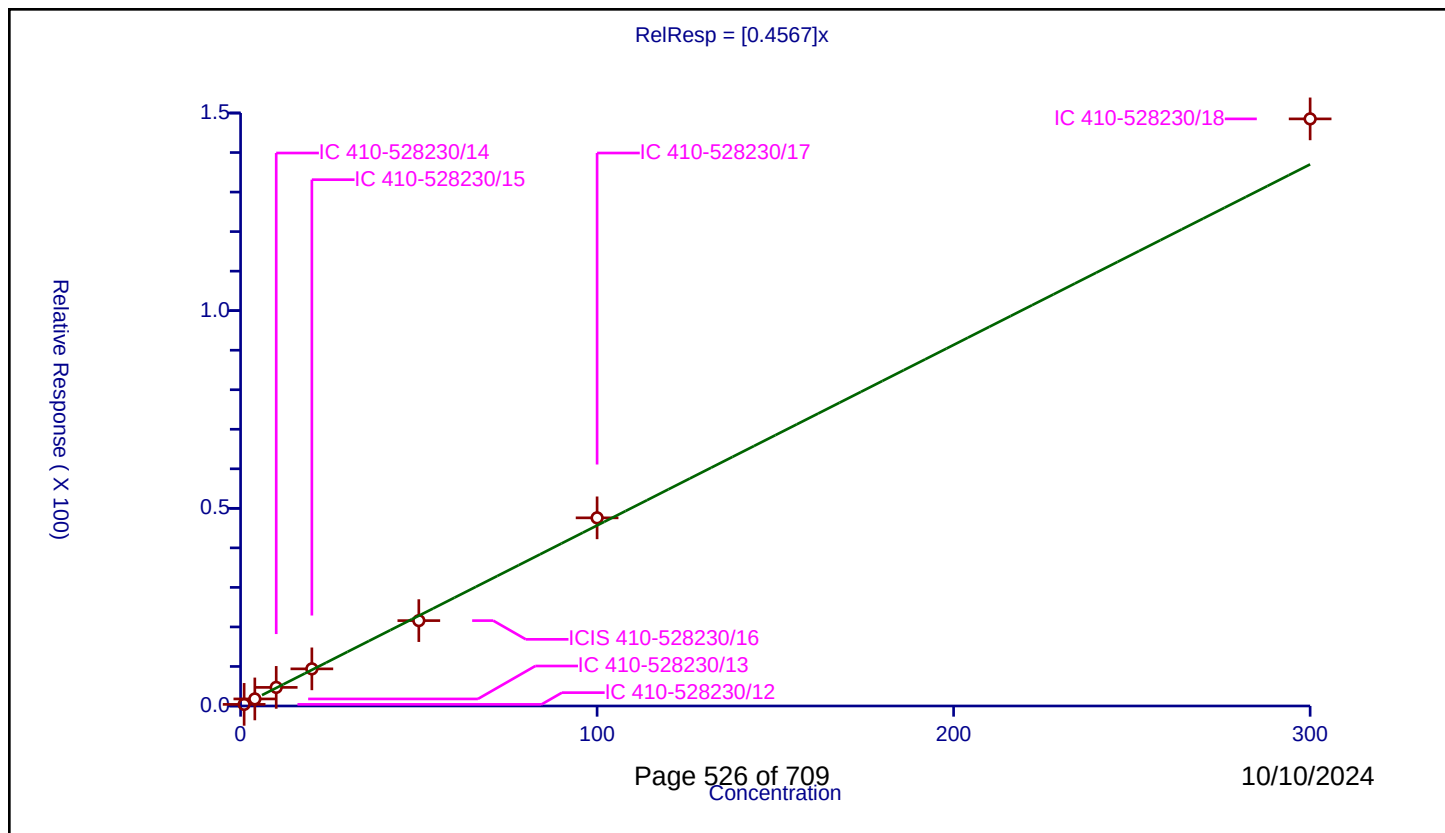
Curve Coefficients

Intercept: 0
Slope: 0.4567

Error Coefficients

Relative Standard Deviation: 6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.407127	50.0	1134043.0	0.407127	Y
2	IC 410-528230/13	4.0	1.785935	50.0	1142427.0	0.446484	Y
3	IC 410-528230/14	10.0	4.706751	50.0	1120550.0	0.470675	Y
4	IC 410-528230/15	20.0	9.391649	50.0	1130350.0	0.469582	Y
5	ICIS 410-528230/16	50.0	21.599054	50.0	1137735.0	0.431981	Y
6	IC 410-528230/17	100.0	47.592692	50.0	1135563.0	0.475927	Y
7	IC 410-528230/18	300.0	148.513527	50.0	1161340.0	0.495045	Y



Calibration

/ Cyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

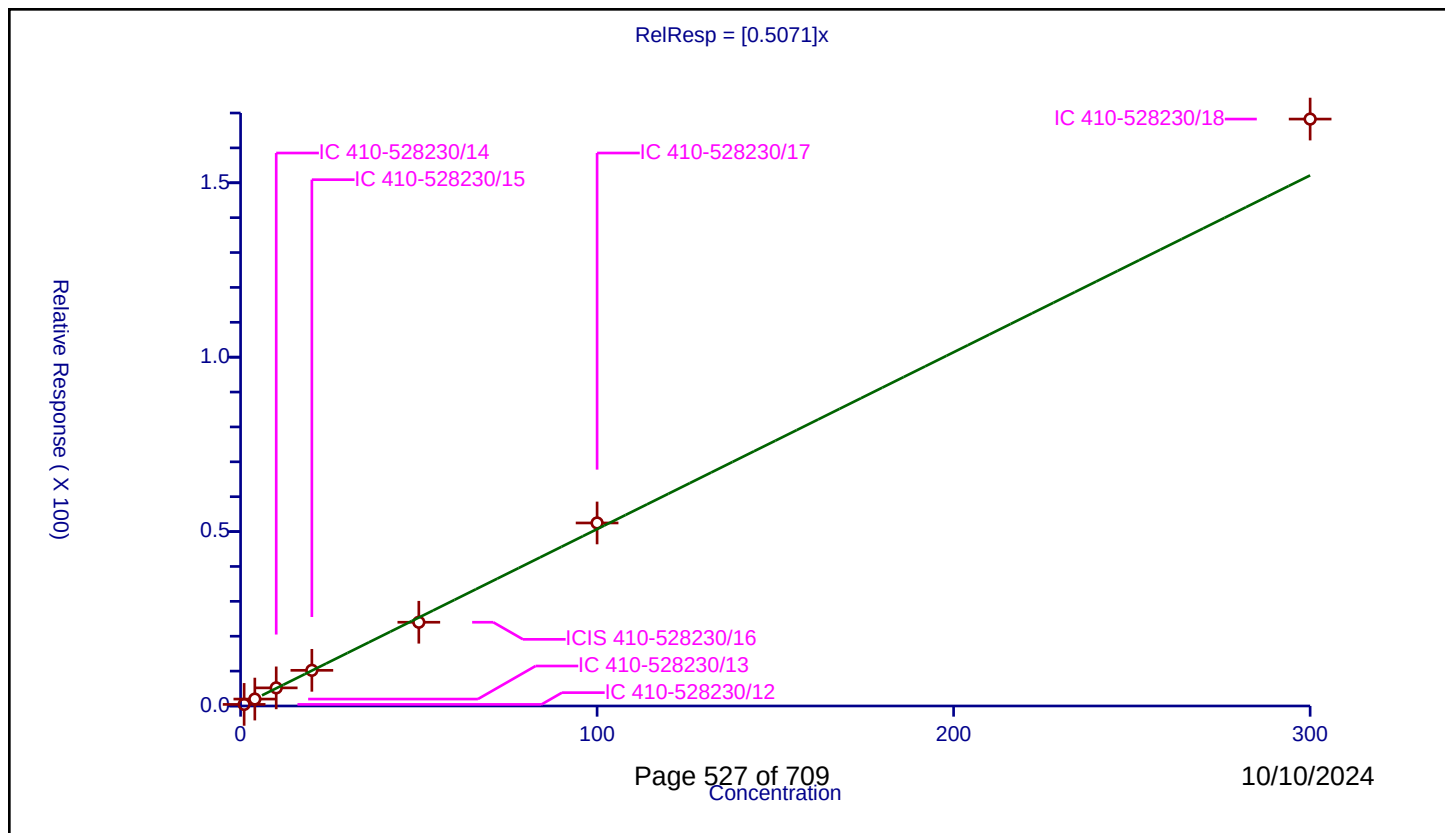
Curve Coefficients

Intercept: 0
Slope: 0.5071

Error Coefficients

Relative Standard Deviation: 6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.457919	50.0	1134043.0	0.457919	Y
2	IC 410-528230/13	4.0	1.981483	50.0	1142427.0	0.495371	Y
3	IC 410-528230/14	10.0	5.191112	50.0	1120550.0	0.519111	Y
4	IC 410-528230/15	20.0	10.2244	50.0	1130350.0	0.51122	Y
5	ICIS 410-528230/16	50.0	24.012885	50.0	1137735.0	0.480258	Y
6	IC 410-528230/17	100.0	52.474543	50.0	1135563.0	0.524745	Y
7	IC 410-528230/18	300.0	168.264074	50.0	1161340.0	0.56088	Y



Calibration

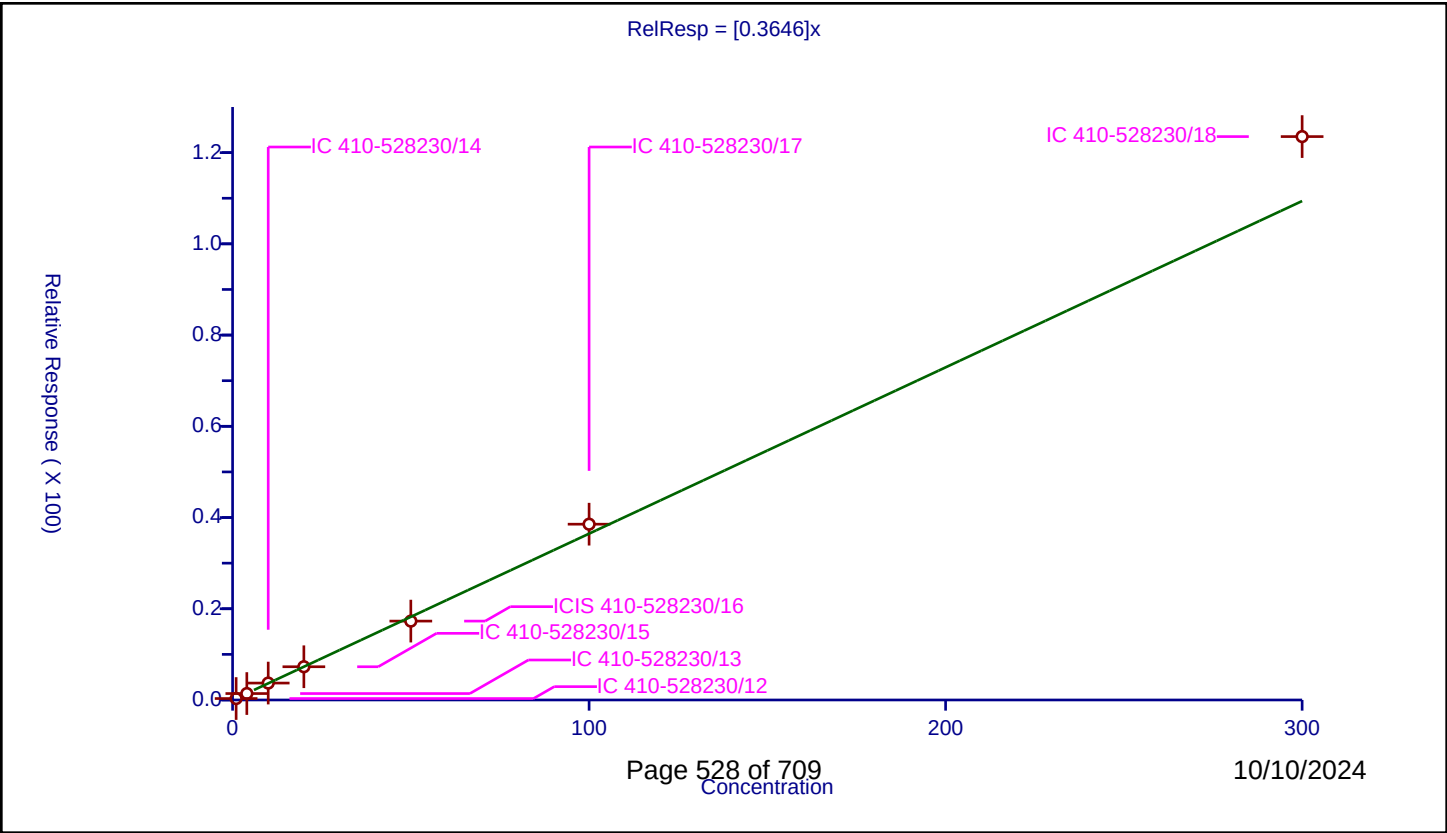
/ Carbon tetrachloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3646
Error Coefficients	

Relative Standard Deviation: 8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.320579	50.0	1134043.0	0.320579	Y
2	IC 410-528230/13	4.0	1.414445	50.0	1142427.0	0.353611	Y
3	IC 410-528230/14	10.0	3.708536	50.0	1120550.0	0.370854	Y
4	IC 410-528230/15	20.0	7.285177	50.0	1130350.0	0.364259	Y
5	ICIS 410-528230/16	50.0	17.29546	50.0	1137735.0	0.345909	Y
6	IC 410-528230/17	100.0	38.541235	50.0	1135563.0	0.385412	Y
7	IC 410-528230/18	300.0	123.515852	50.0	1161340.0	0.41172	Y



Calibration

/ 1,1-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

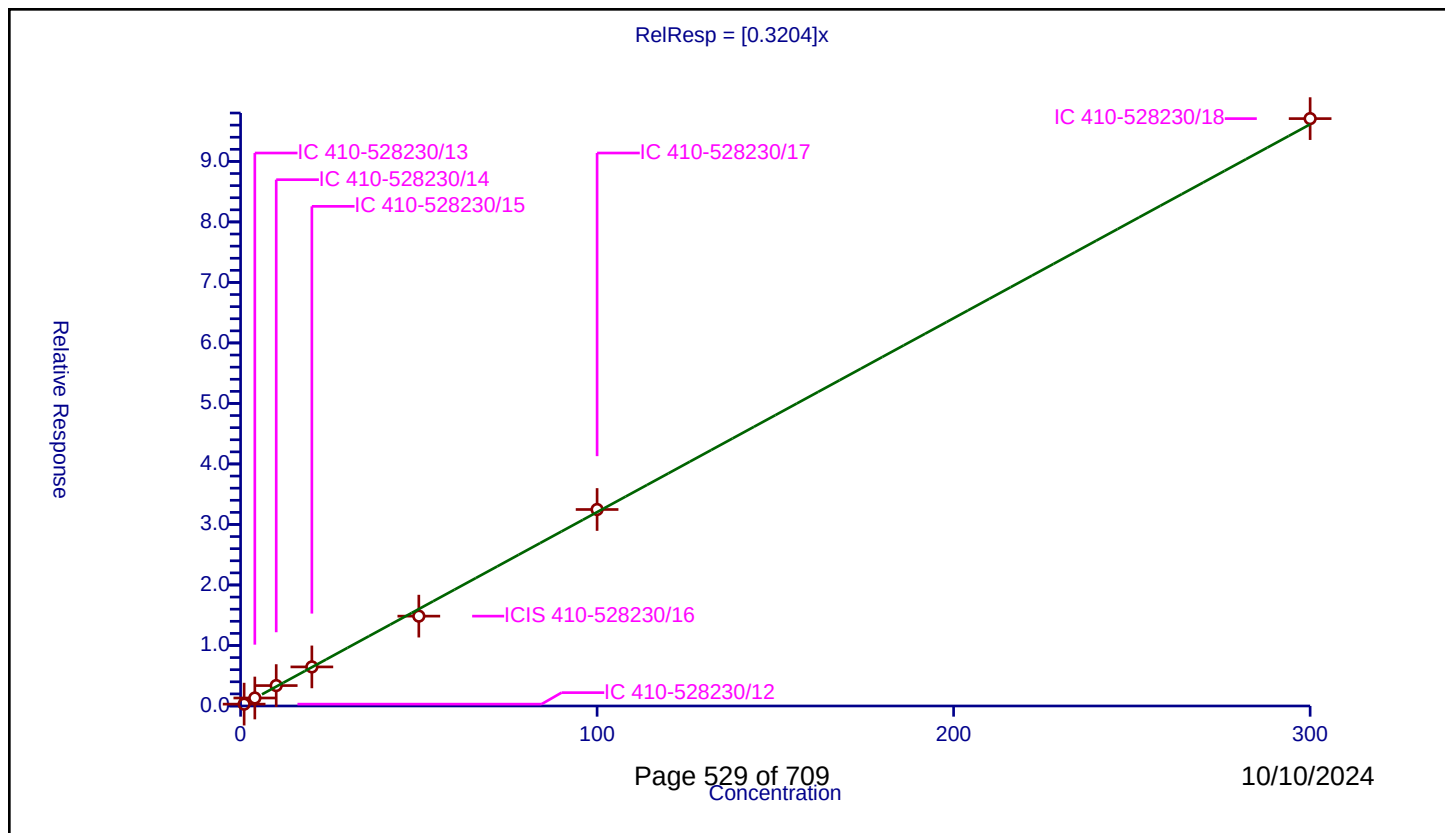
Curve Coefficients

Intercept: 0
Slope: 0.3204

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.307572	50.0	1134043.0	0.307572	Y
2	IC 410-528230/13	4.0	1.31794	50.0	1142427.0	0.329485	Y
3	IC 410-528230/14	10.0	3.375842	50.0	1120550.0	0.337584	Y
4	IC 410-528230/15	20.0	6.460831	50.0	1130350.0	0.323042	Y
5	ICIS 410-528230/16	50.0	14.850602	50.0	1137735.0	0.297012	Y
6	IC 410-528230/17	100.0	32.473936	50.0	1135563.0	0.324739	Y
7	IC 410-528230/18	300.0	97.074974	50.0	1161340.0	0.323583	Y



Calibration

/ Isobutyl alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

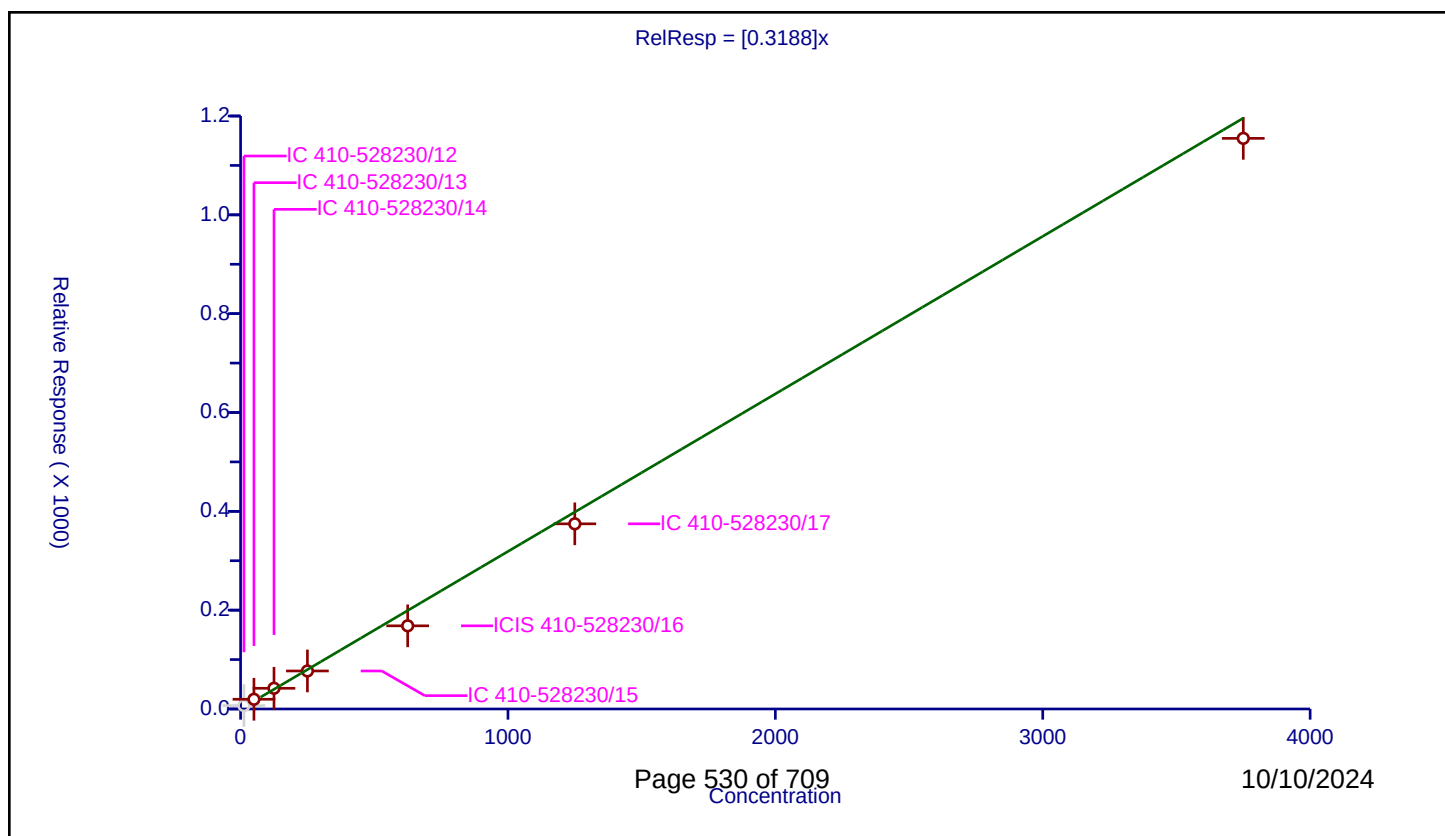
Curve Coefficients

Intercept: 0
Slope: 0.3188

Error Coefficients

Relative Standard Deviation: 13.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	12.5	6.928318	250.0	280335.0	0.554265	N
2	IC 410-528230/13	50.0	19.64429	250.0	286610.0	0.392886	Y
3	IC 410-528230/14	125.0	41.918619	250.0	282130.0	0.335349	Y
4	IC 410-528230/15	250.0	76.931322	250.0	293866.0	0.307725	Y
5	ICIS 410-528230/16	625.0	168.31024	250.0	295545.0	0.269296	Y
6	IC 410-528230/17	1250.0	374.731923	250.0	300753.0	0.299786	Y
7	IC 410-528230/18	3750.0	1154.770196	250.0	307262.0	0.307939	Y



Calibration

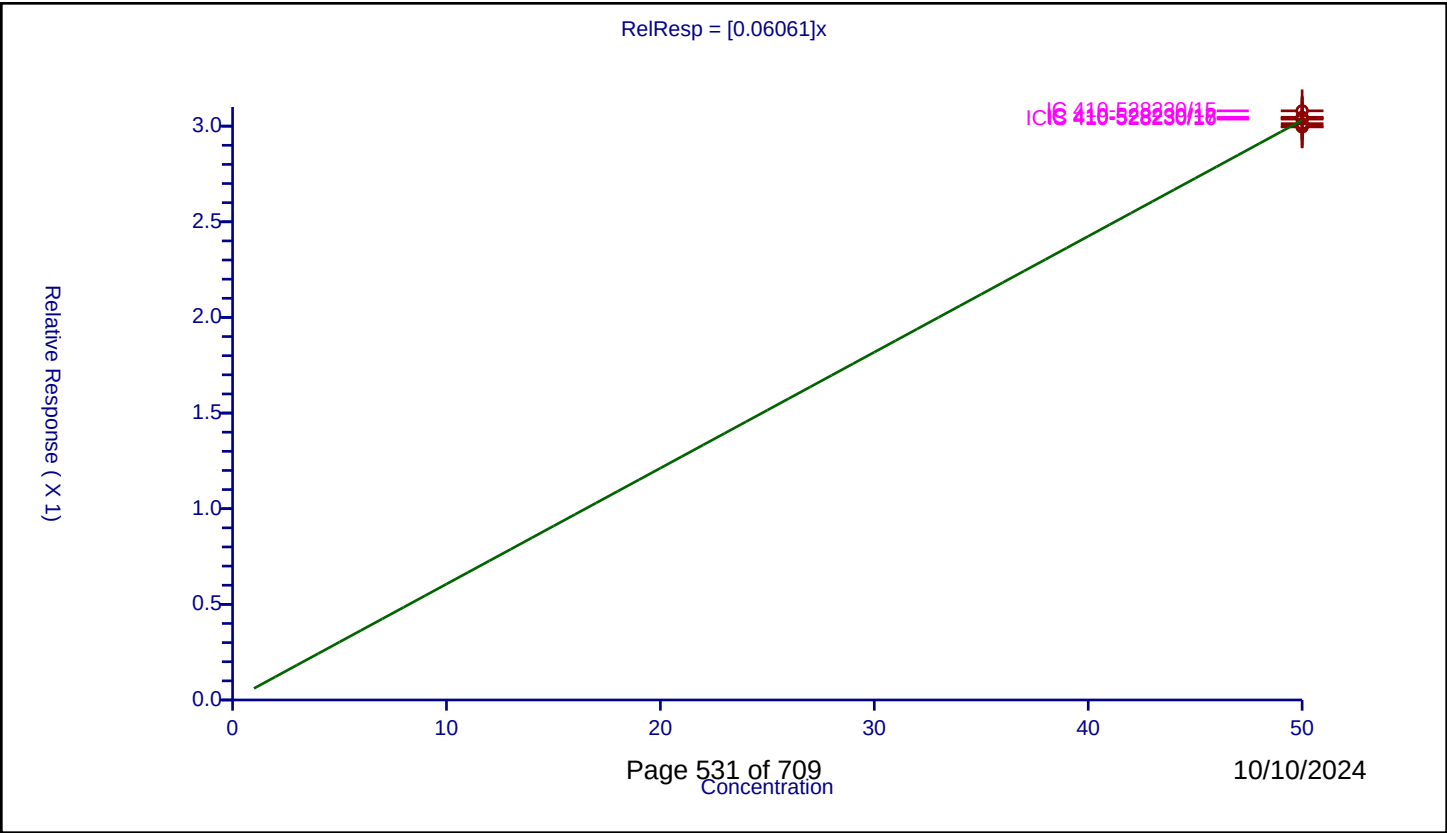
/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06061

Error Coefficients	
Relative Standard Deviation:	1.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	50.0	2.995962	50.0	1134043.0	0.059919	Y
2	IC 410-528230/13	50.0	2.999448	50.0	1142427.0	0.059989	Y
3	IC 410-528230/14	50.0	3.012985	50.0	1120550.0	0.06026	Y
4	IC 410-528230/15	50.0	3.080064	50.0	1130350.0	0.061601	Y
5	ICIS 410-528230/16	50.0	3.036735	50.0	1137735.0	0.060735	Y
6	IC 410-528230/17	50.0	3.040826	50.0	1135563.0	0.060817	Y
7	IC 410-528230/18	50.0	3.046352	50.0	1161340.0	0.060927	Y

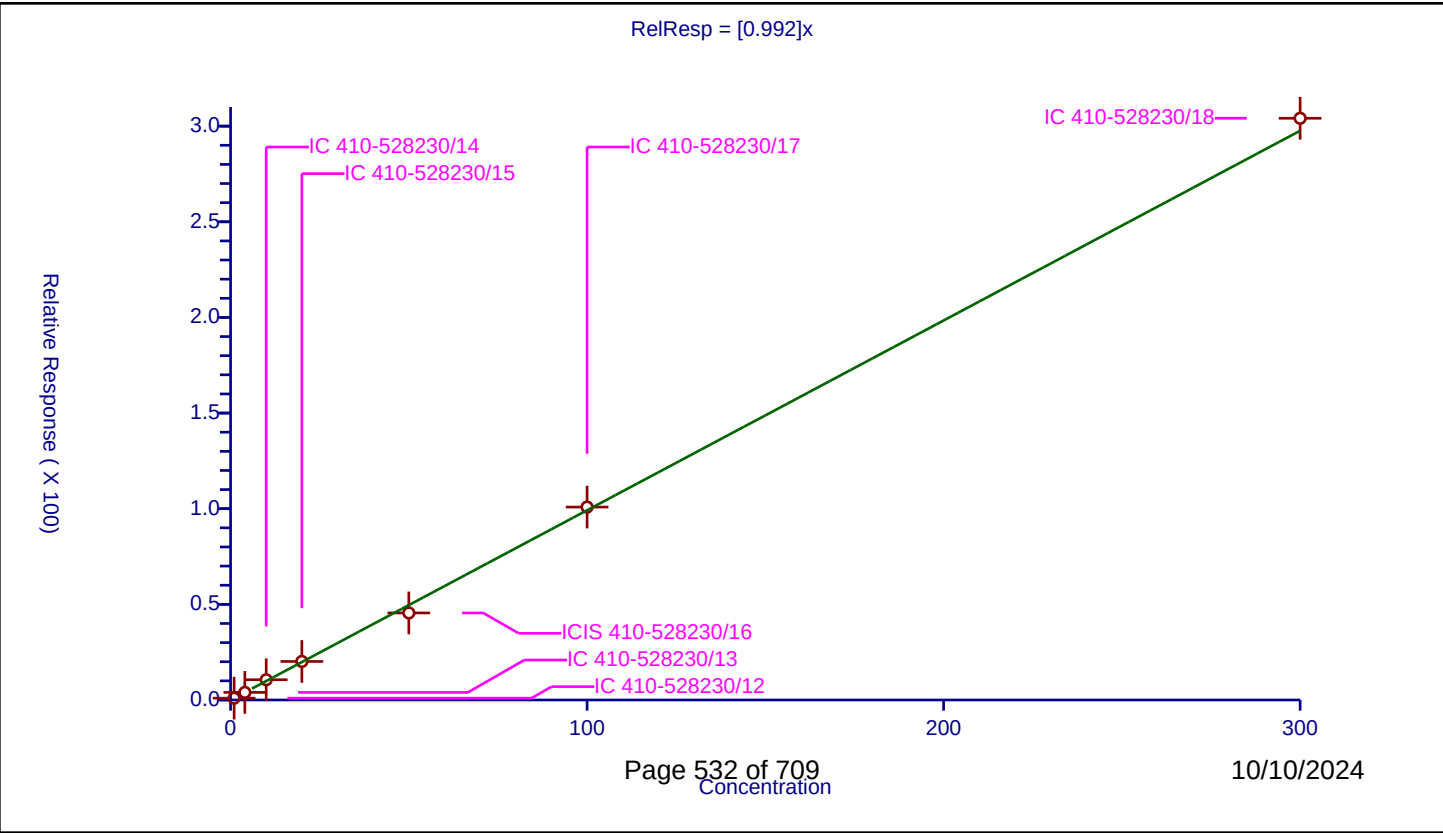


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.992
Error Coefficients	

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.954549	50.0	1134043.0	0.954549	Y
2	IC 410-528230/13	4.0	3.962354	50.0	1142427.0	0.990588	Y
3	IC 410-528230/14	10.0	10.587435	50.0	1120550.0	1.058743	Y
4	IC 410-528230/15	20.0	20.143761	50.0	1130350.0	1.007188	Y
5	ICIS 410-528230/16	50.0	45.511125	50.0	1137735.0	0.910223	Y
6	IC 410-528230/17	100.0	100.862083	50.0	1135563.0	1.008621	Y
7	IC 410-528230/18	300.0	304.121661	50.0	1161340.0	1.013739	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

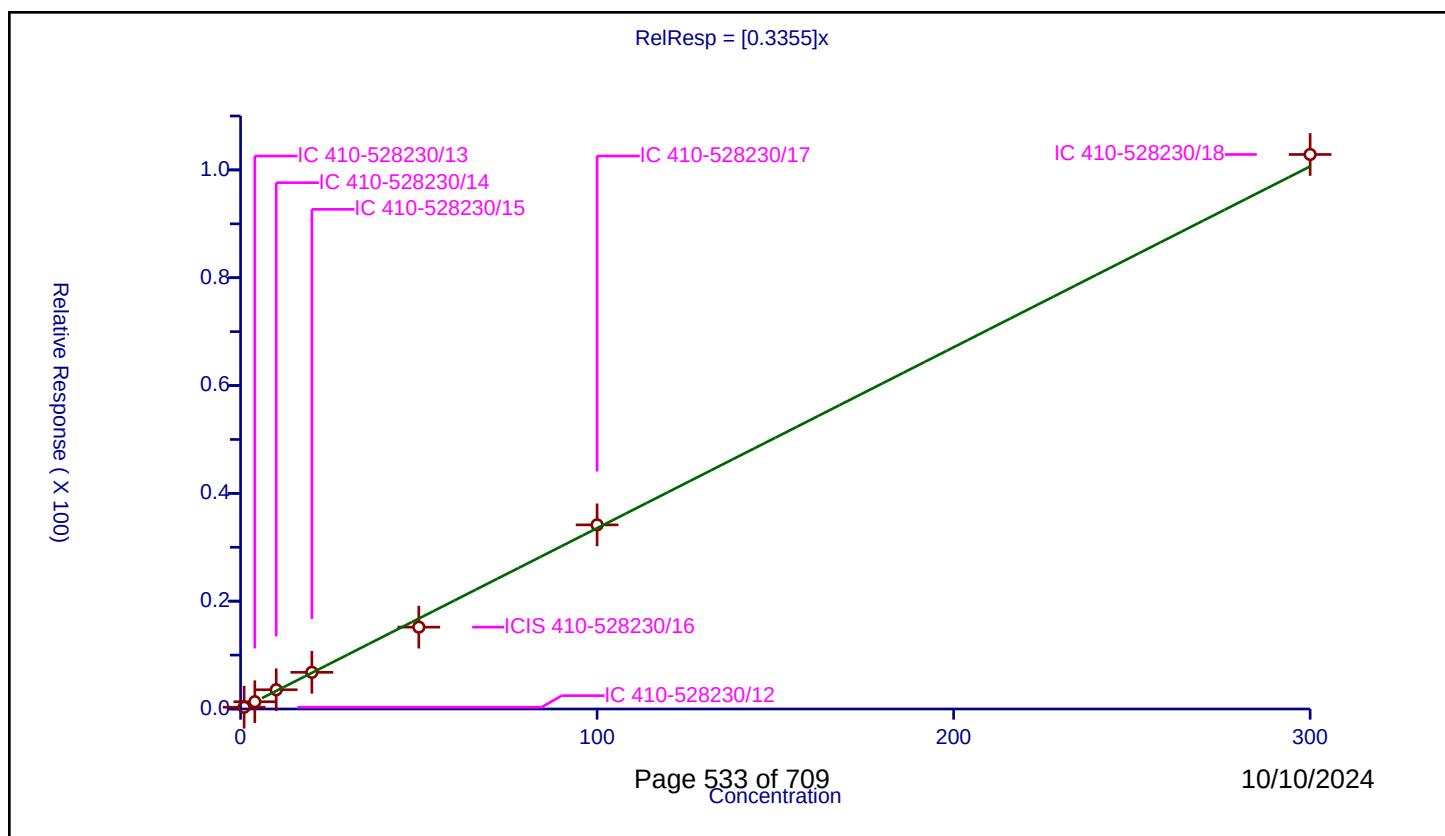
Curve Coefficients

Intercept: 0
Slope: 0.3355

Error Coefficients

Relative Standard Deviation: 5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.32631	50.0	1134043.0	0.32631	Y
2	IC 410-528230/13	4.0	1.347088	50.0	1142427.0	0.336772	Y
3	IC 410-528230/14	10.0	3.571014	50.0	1120550.0	0.357101	Y
4	IC 410-528230/15	20.0	6.802318	50.0	1130350.0	0.340116	Y
5	ICIS 410-528230/16	50.0	15.184731	50.0	1137735.0	0.303695	Y
6	IC 410-528230/17	100.0	34.154644	50.0	1135563.0	0.341546	Y
7	IC 410-528230/18	300.0	102.868454	50.0	1161340.0	0.342895	Y



Calibration

/ Tert-amyl methyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

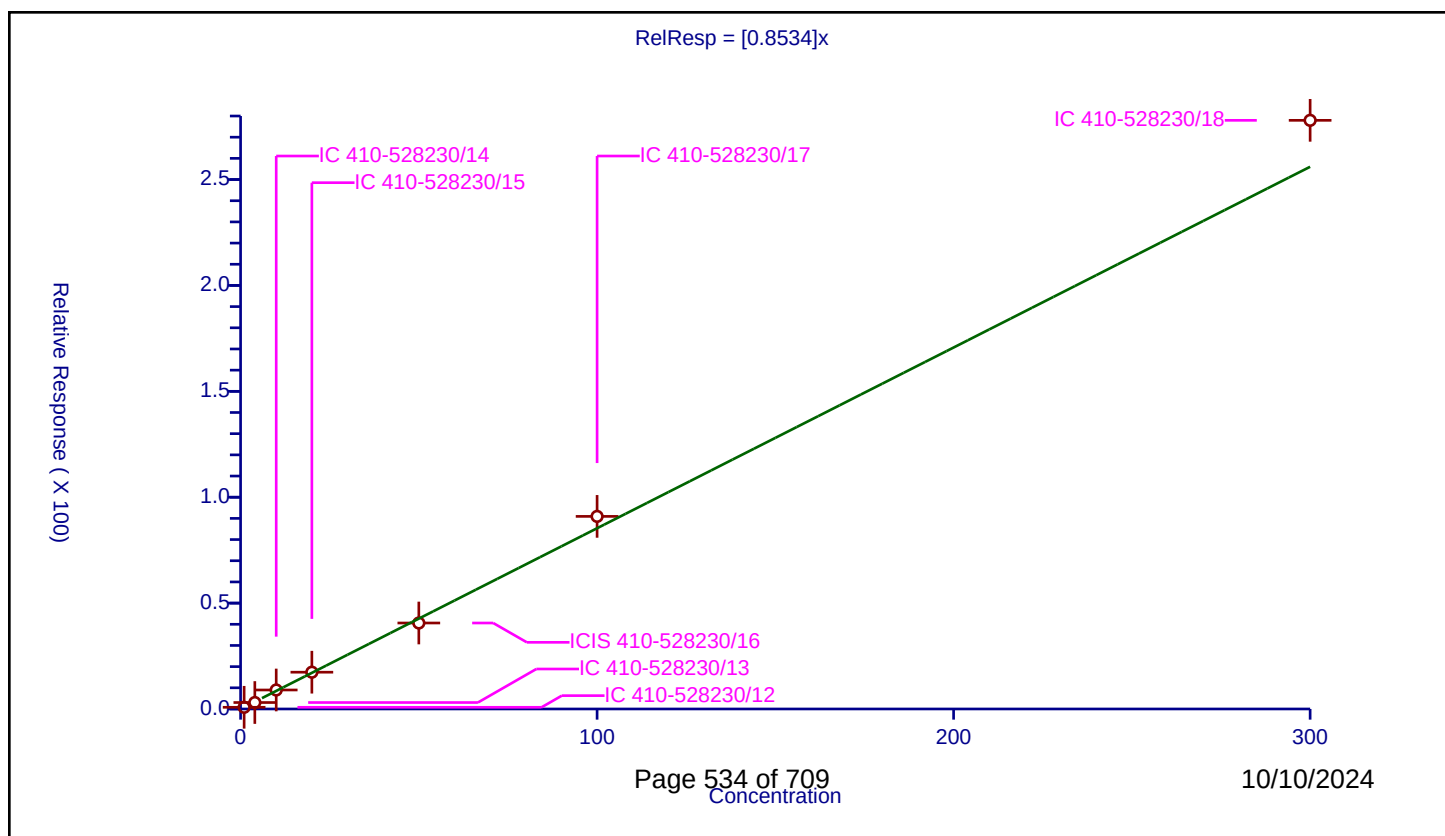
Curve Coefficients

Intercept: 0
Slope: 0.8534

Error Coefficients

Relative Standard Deviation: 7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.796619	50.0	1134043.0	0.796619	Y
2	IC 410-528230/13	4.0	3.057088	50.0	1142427.0	0.764272	Y
3	IC 410-528230/14	10.0	8.966624	50.0	1120550.0	0.896662	Y
4	IC 410-528230/15	20.0	17.369885	50.0	1130350.0	0.868494	Y
5	ICIS 410-528230/16	50.0	40.603743	50.0	1137735.0	0.812075	Y
6	IC 410-528230/17	100.0	90.941454	50.0	1135563.0	0.909415	Y
7	IC 410-528230/18	300.0	277.954604	50.0	1161340.0	0.926515	Y



Calibration

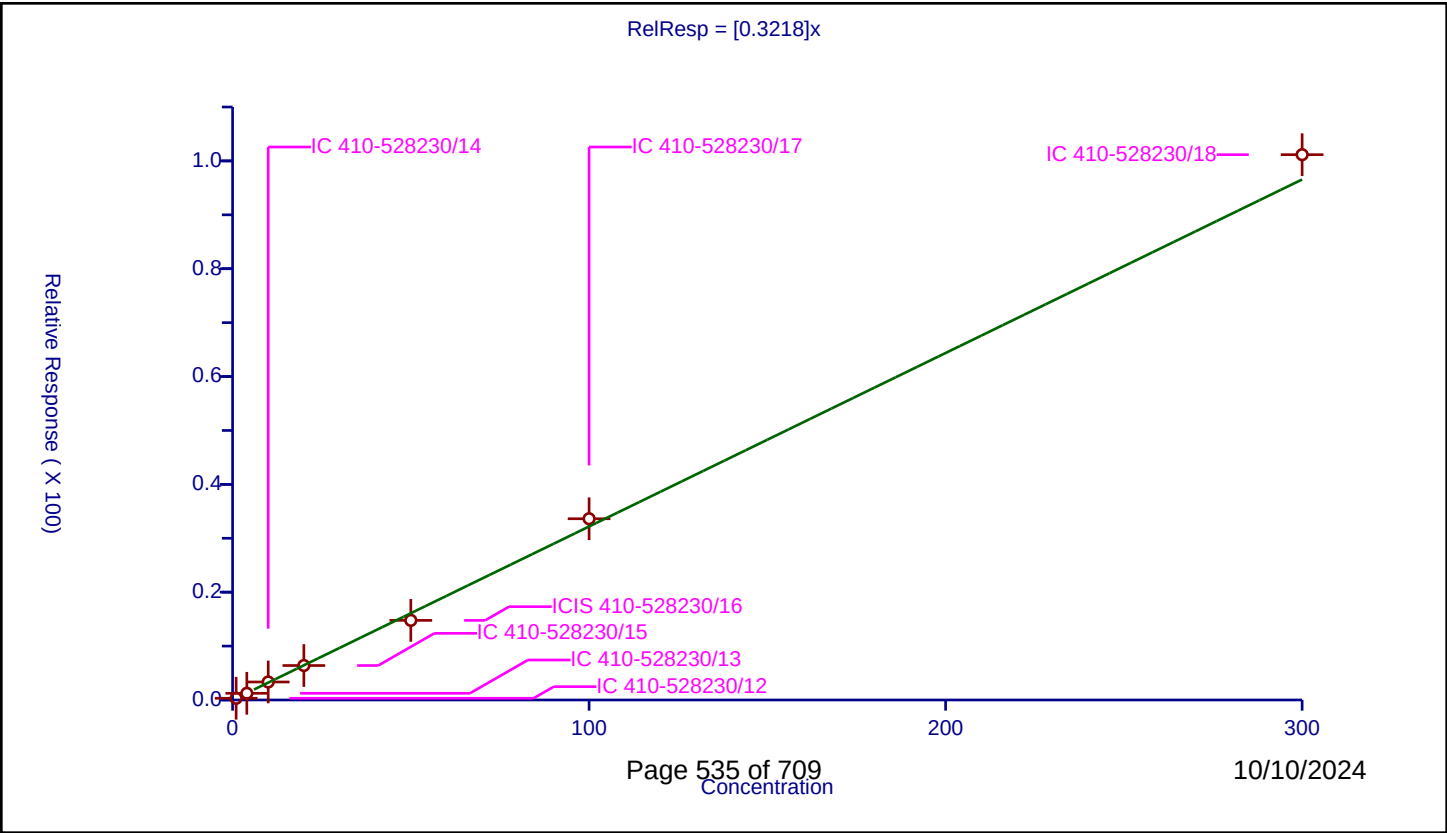
/ n-Heptane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3218
Error Coefficients	

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.319917	50.0	1134043.0	0.319917	Y
2	IC 410-528230/13	4.0	1.241611	50.0	1142427.0	0.310403	Y
3	IC 410-528230/14	10.0	3.340101	50.0	1120550.0	0.33401	Y
4	IC 410-528230/15	20.0	6.395807	50.0	1130350.0	0.31979	Y
5	ICIS 410-528230/16	50.0	14.770443	50.0	1137735.0	0.295409	Y
6	IC 410-528230/17	100.0	33.621913	50.0	1135563.0	0.336219	Y
7	IC 410-528230/18	300.0	101.158834	50.0	1161340.0	0.337196	Y



Calibration

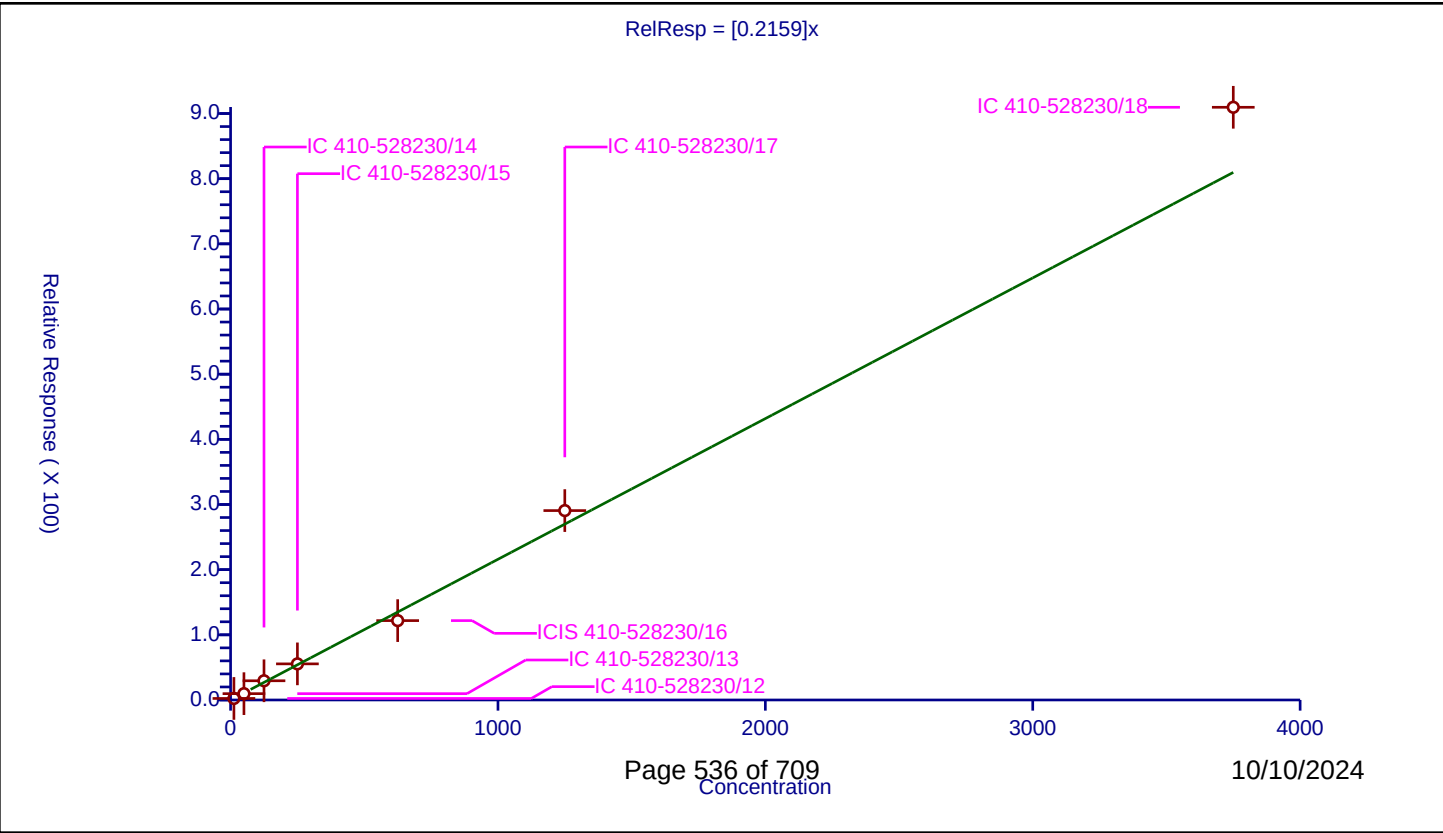
/ n-Butanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2159
Error Coefficients	

Relative Standard Deviation: 10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	12.5	2.365028	250.0	280335.0	0.189202	Y
2	IC 410-528230/13	50.0	9.726632	250.0	286610.0	0.194533	Y
3	IC 410-528230/14	125.0	29.490838	250.0	282130.0	0.235927	Y
4	IC 410-528230/15	250.0	55.429175	250.0	293866.0	0.221717	Y
5	ICIS 410-528230/16	625.0	121.828317	250.0	295545.0	0.194925	Y
6	IC 410-528230/17	1250.0	290.640492	250.0	300753.0	0.232512	Y
7	IC 410-528230/18	3750.0	909.605646	250.0	307262.0	0.242562	Y



Calibration

/ Trichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

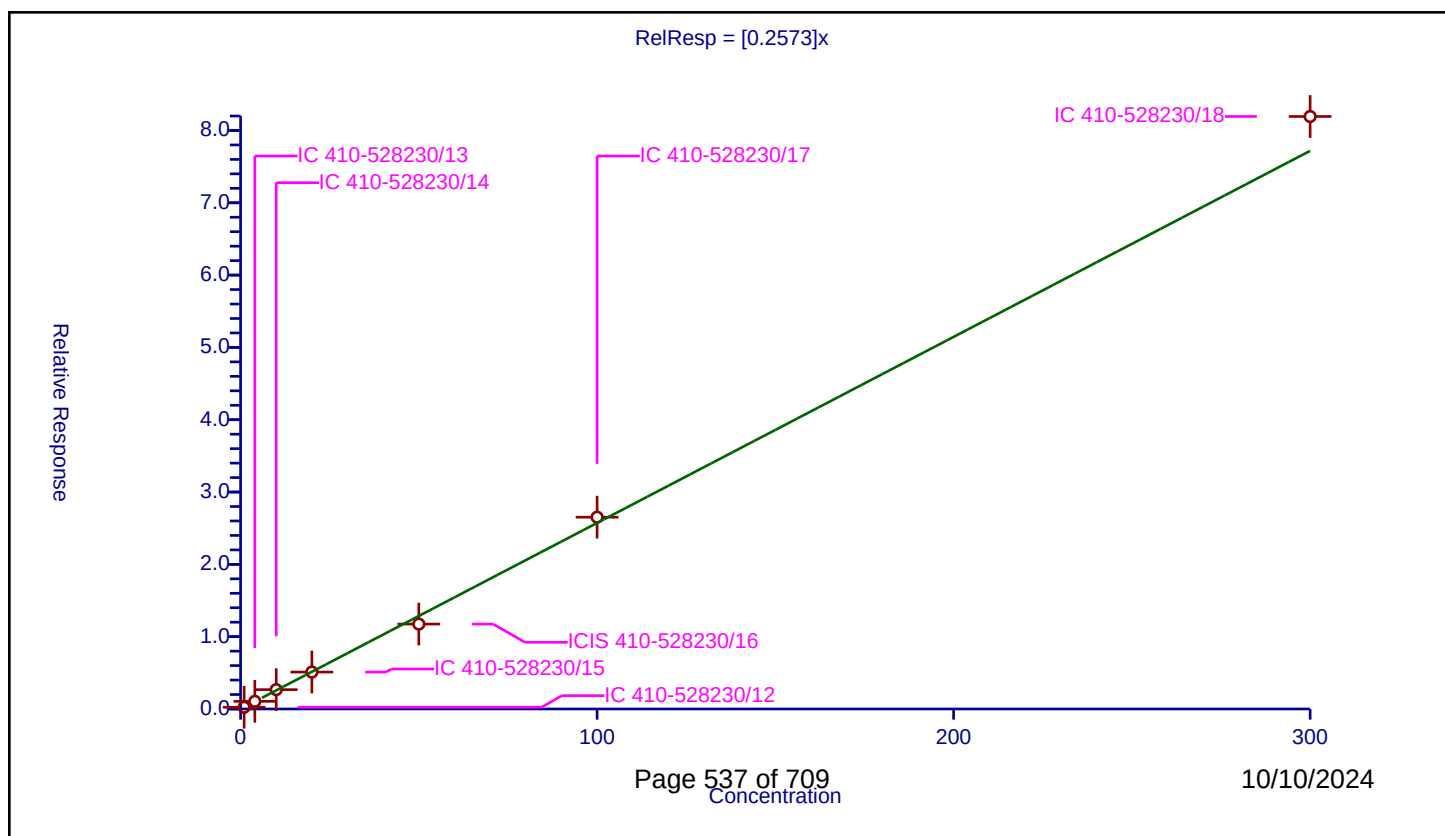
Curve Coefficients

Intercept: 0
Slope: 0.2573

Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.240247	50.0	1134043.0	0.240247	Y
2	IC 410-528230/13	4.0	1.058536	50.0	1142427.0	0.264634	Y
3	IC 410-528230/14	10.0	2.67449	50.0	1120550.0	0.267449	Y
4	IC 410-528230/15	20.0	5.10687	50.0	1130350.0	0.255343	Y
5	ICIS 410-528230/16	50.0	11.743684	50.0	1137735.0	0.234874	Y
6	IC 410-528230/17	100.0	26.522615	50.0	1135563.0	0.265226	Y
7	IC 410-528230/18	300.0	81.93238	50.0	1161340.0	0.273108	Y



Calibration

/ Ethyl acrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

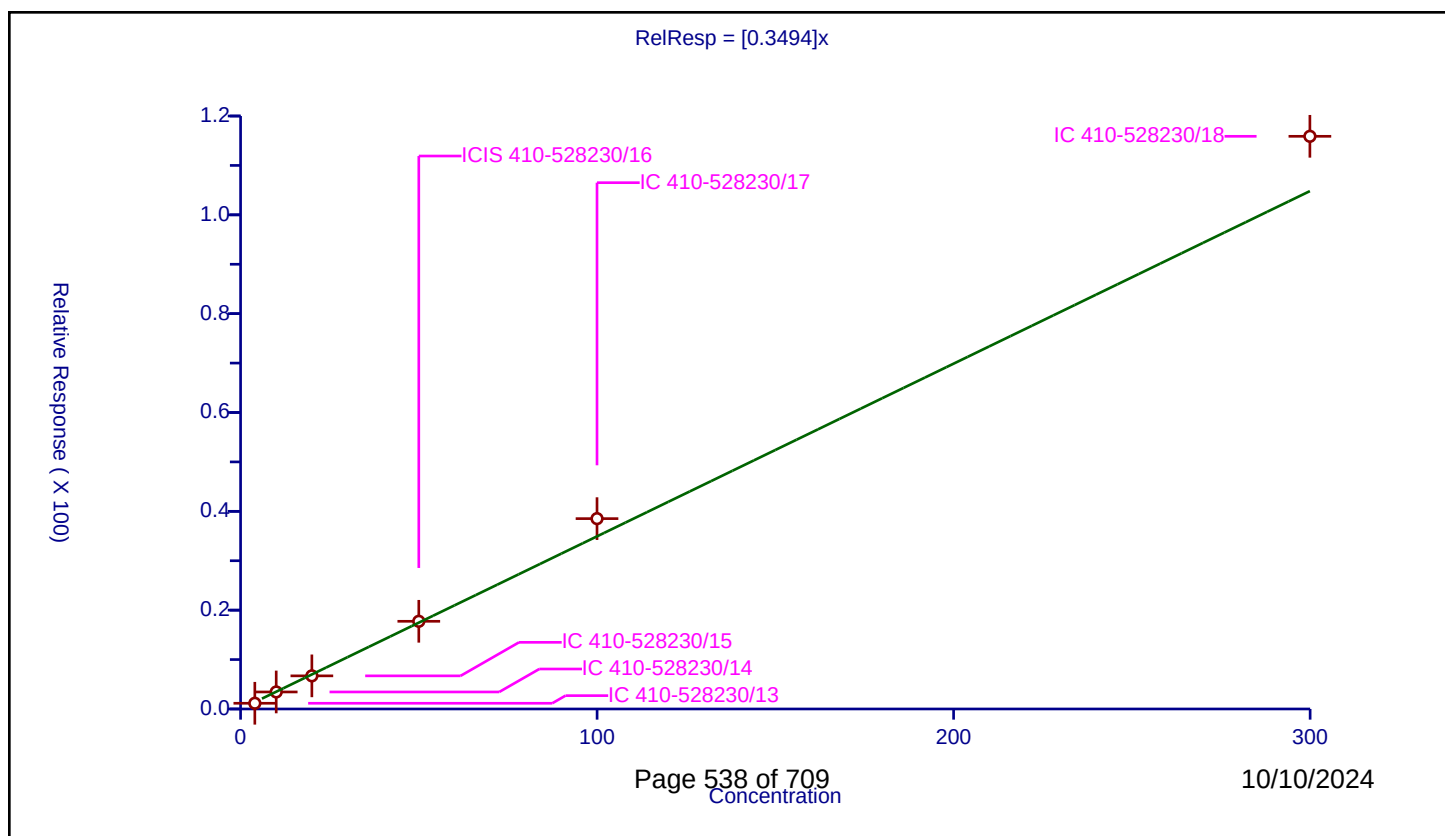
Curve Coefficients

Intercept: 0
Slope: 0.3494

Error Coefficients

Relative Standard Deviation: 10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/13	3.999186	1.157667	50.0	1142427.0	0.289476	Y
2	IC 410-528230/14	9.997964	3.448173	50.0	1120550.0	0.344887	Y
3	IC 410-528230/15	19.995928	6.705843	50.0	1130350.0	0.33536	Y
4	ICIS 410-528230/16	49.98982	17.748026	50.0	1137735.0	0.355033	Y
5	IC 410-528230/17	99.97964	38.521685	50.0	1135563.0	0.385295	Y
6	IC 410-528230/18	299.93892	115.895905	50.0	1161340.0	0.386398	Y



Calibration

/ Methylcyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

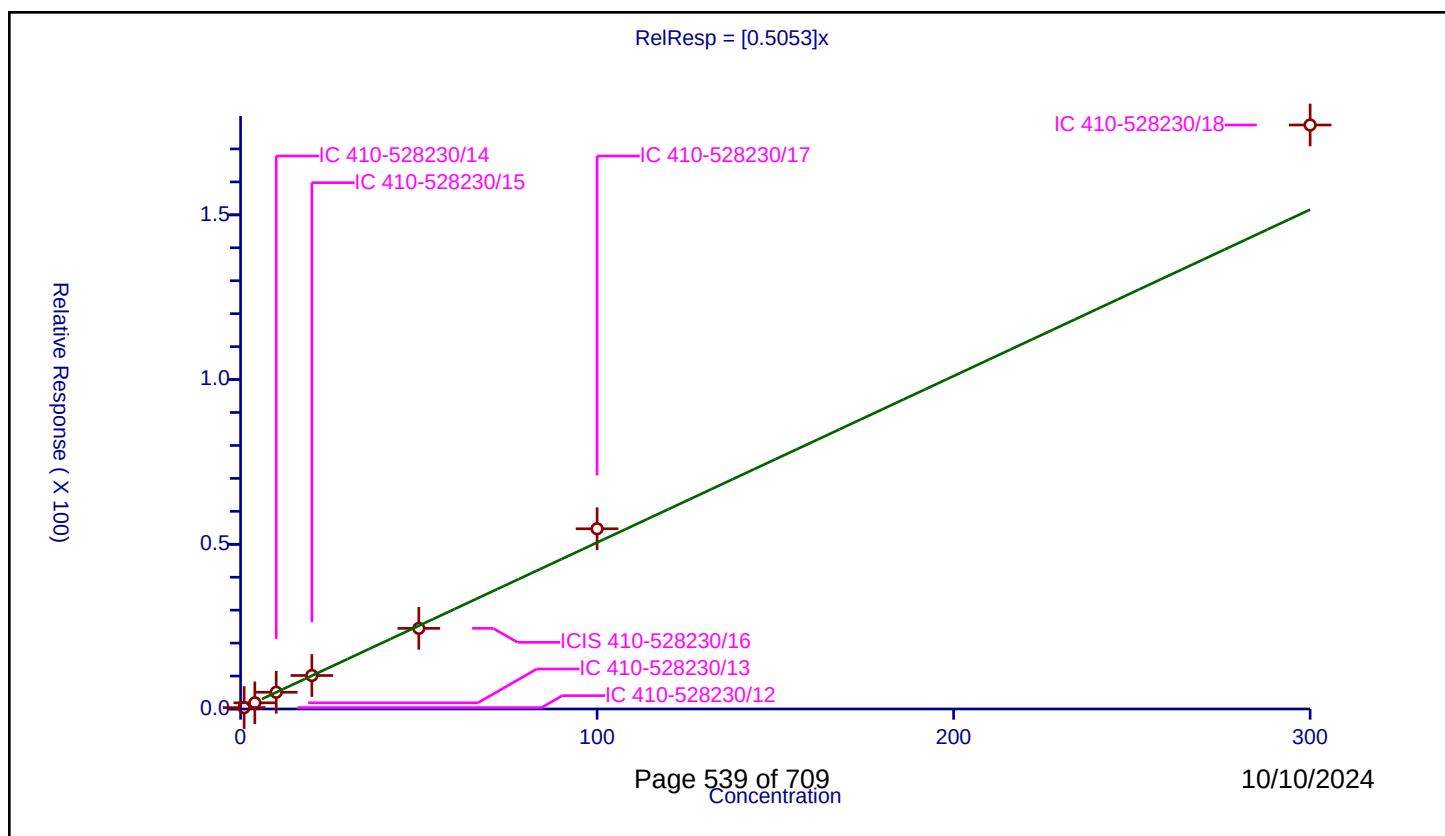
Curve Coefficients

Intercept: 0
Slope: 0.5053

Error Coefficients

Relative Standard Deviation: 10.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.42516	50.0	1134043.0	0.42516	Y
2	IC 410-528230/13	4.0	1.874255	50.0	1142427.0	0.468564	Y
3	IC 410-528230/14	10.0	5.07831	50.0	1120550.0	0.507831	Y
4	IC 410-528230/15	20.0	10.161189	50.0	1130350.0	0.508059	Y
5	ICIS 410-528230/16	50.0	24.477932	50.0	1137735.0	0.489559	Y
6	IC 410-528230/17	100.0	54.712508	50.0	1135563.0	0.547125	Y
7	IC 410-528230/18	300.0	177.273667	50.0	1161340.0	0.590912	Y



Calibration

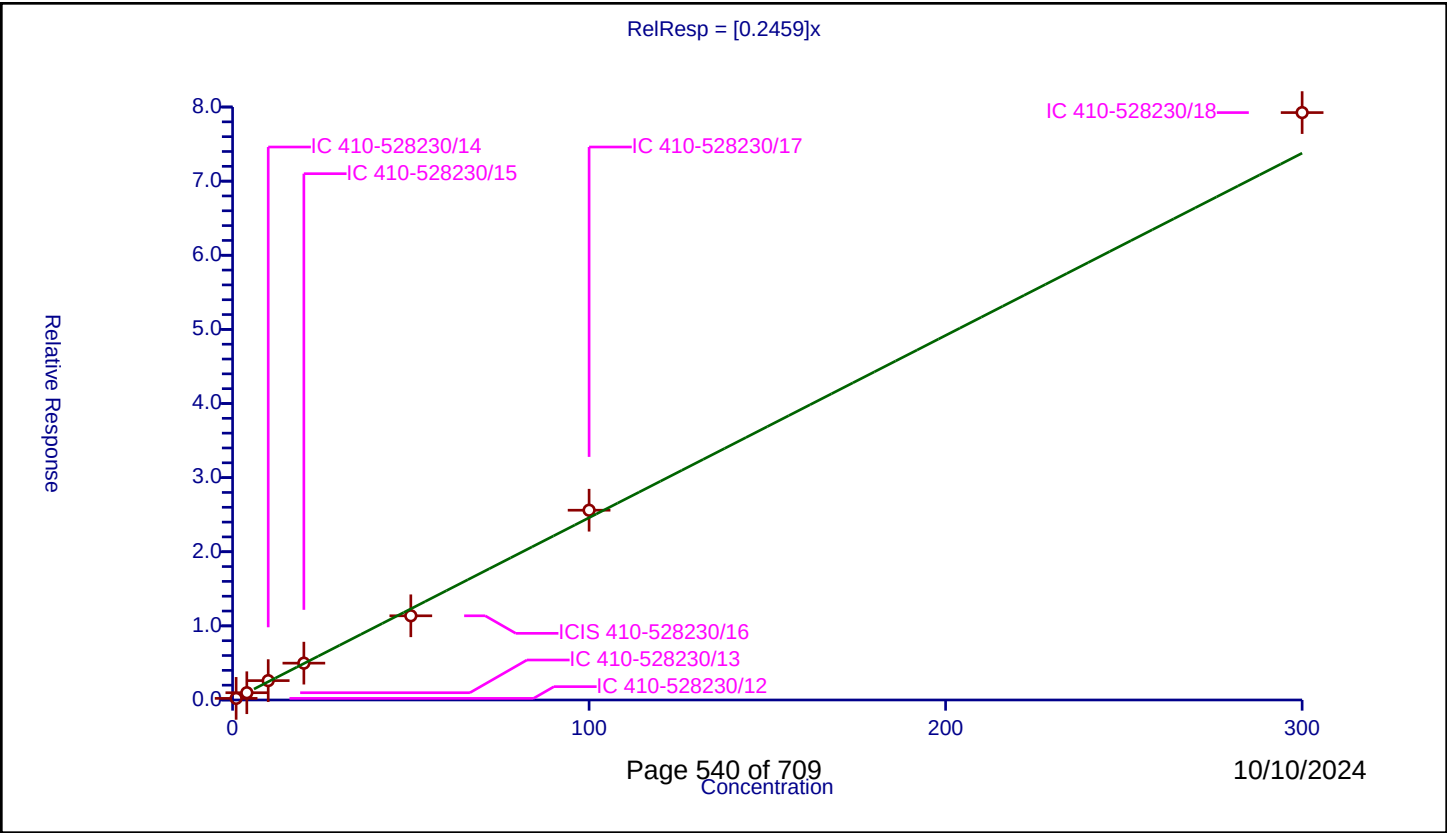
/ 1,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2459
Error Coefficients	

Relative Standard Deviation: 7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.218863	50.0	1134043.0	0.218863	Y
2	IC 410-528230/13	4.0	0.981069	50.0	1142427.0	0.245267	Y
3	IC 410-528230/14	10.0	2.613181	50.0	1120550.0	0.261318	Y
4	IC 410-528230/15	20.0	4.971646	50.0	1130350.0	0.248582	Y
5	ICIS 410-528230/16	50.0	11.360159	50.0	1137735.0	0.227203	Y
6	IC 410-528230/17	100.0	25.601706	50.0	1135563.0	0.256017	Y
7	IC 410-528230/18	300.0	79.246646	50.0	1161340.0	0.264155	Y



Calibration

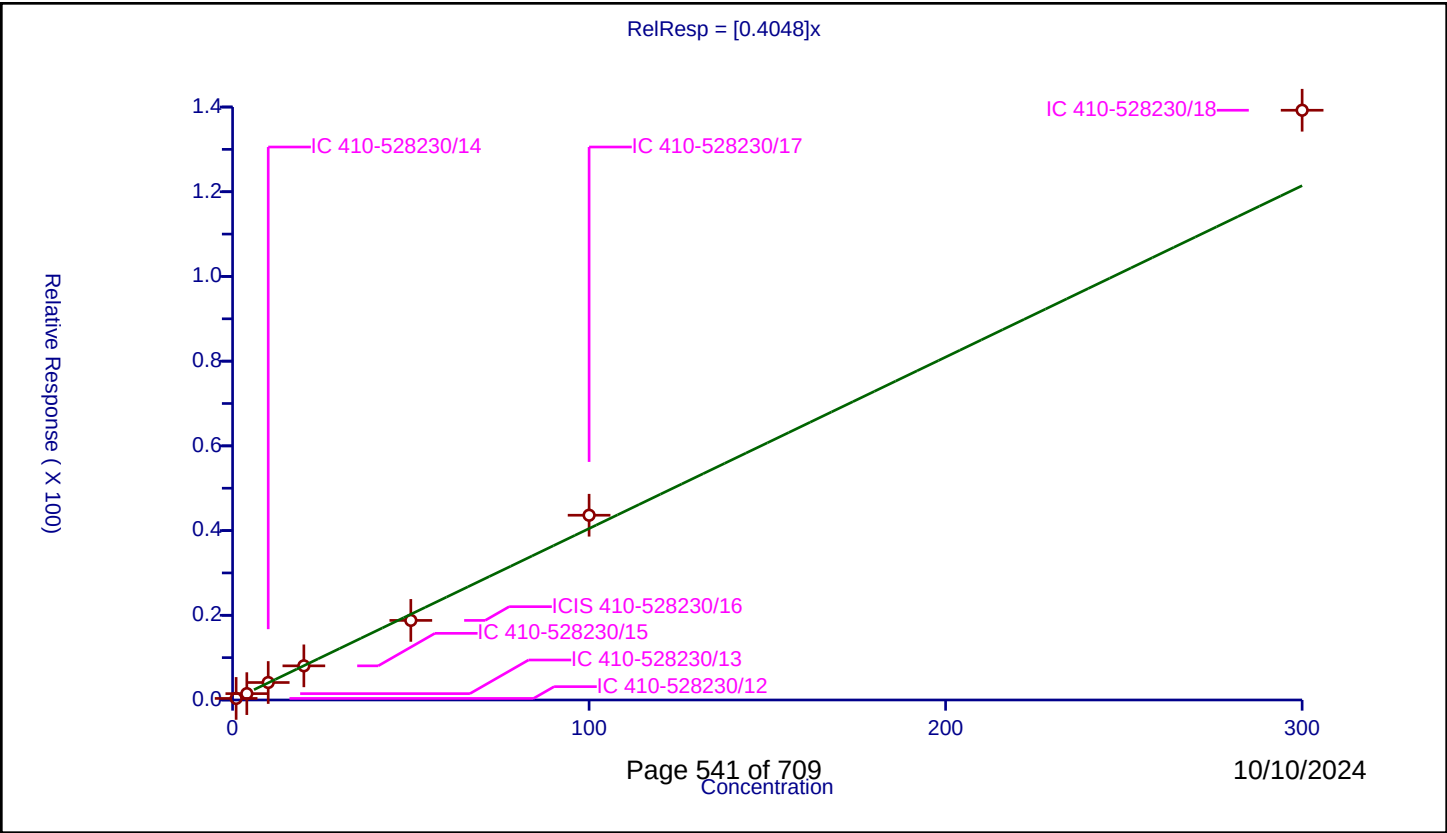
/ 2-ethoxy-2-methyl butane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4048
Error Coefficients	

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.365683	50.0	1134043.0	0.365683	Y
2	IC 410-528230/13	4.0	1.502065	50.0	1142427.0	0.375516	Y
3	IC 410-528230/14	10.0	4.129802	50.0	1120550.0	0.41298	Y
4	IC 410-528230/15	20.0	8.063343	50.0	1130350.0	0.403167	Y
5	ICIS 410-528230/16	50.0	18.789876	50.0	1137735.0	0.375798	Y
6	IC 410-528230/17	100.0	43.619244	50.0	1135563.0	0.436192	Y
7	IC 410-528230/18	300.0	139.238337	50.0	1161340.0	0.464128	Y



Calibration

/ 1,4-Dioxane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

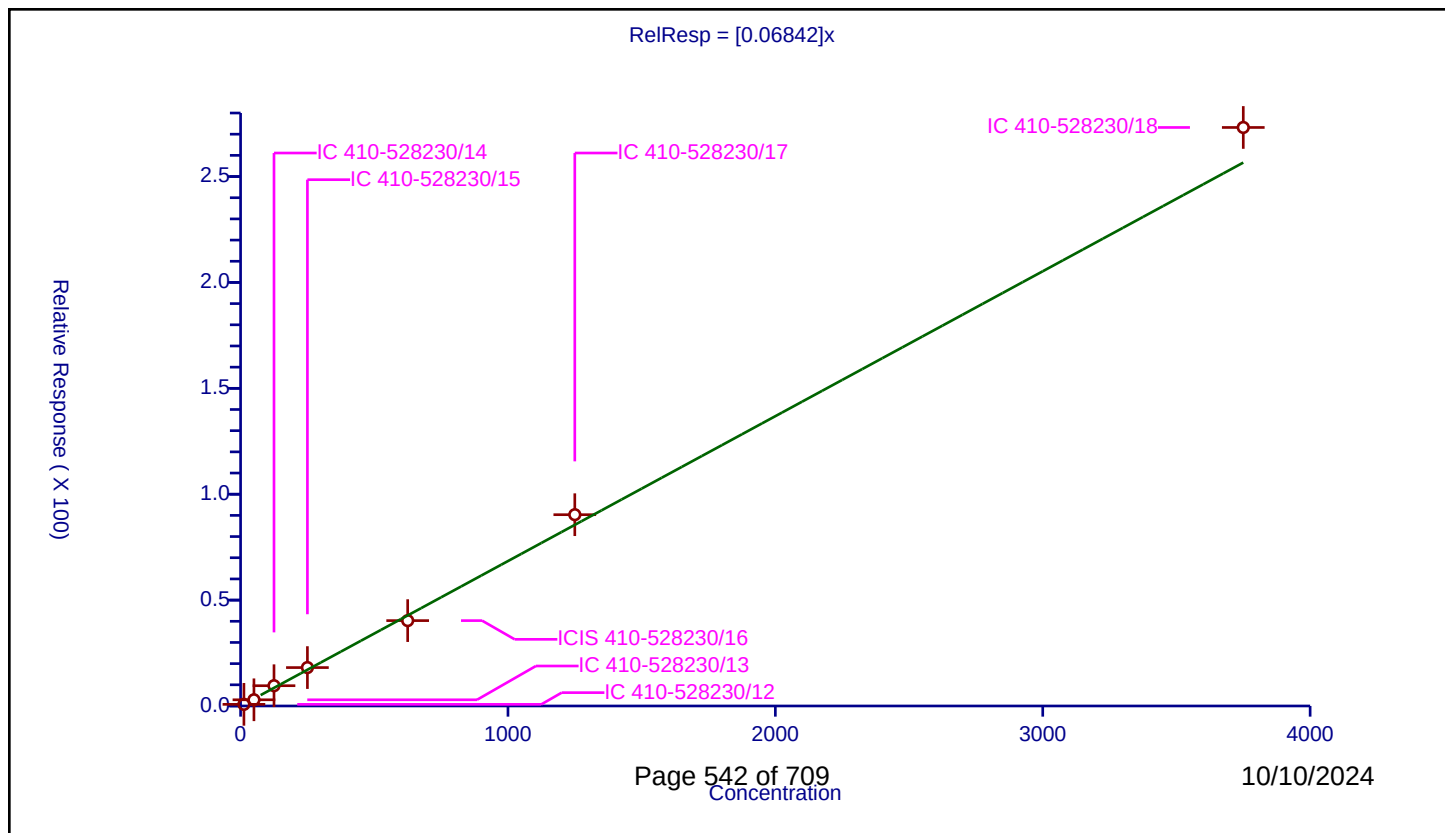
Curve Coefficients

Intercept: 0
Slope: 0.06842

Error Coefficients

Relative Standard Deviation: 9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	12.5	0.769615	250.0	280335.0	0.061569	Y
2	IC 410-528230/13	50.0	2.929067	250.0	286610.0	0.058581	Y
3	IC 410-528230/14	125.0	9.578918	250.0	282130.0	0.076631	Y
4	IC 410-528230/15	250.0	18.140071	250.0	293866.0	0.07256	Y
5	ICIS 410-528230/16	625.0	40.317041	250.0	295545.0	0.064507	Y
6	IC 410-528230/17	1250.0	90.328276	250.0	300753.0	0.072263	Y
7	IC 410-528230/18	3750.0	273.179729	250.0	307262.0	0.072848	Y



Calibration

/ Methyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

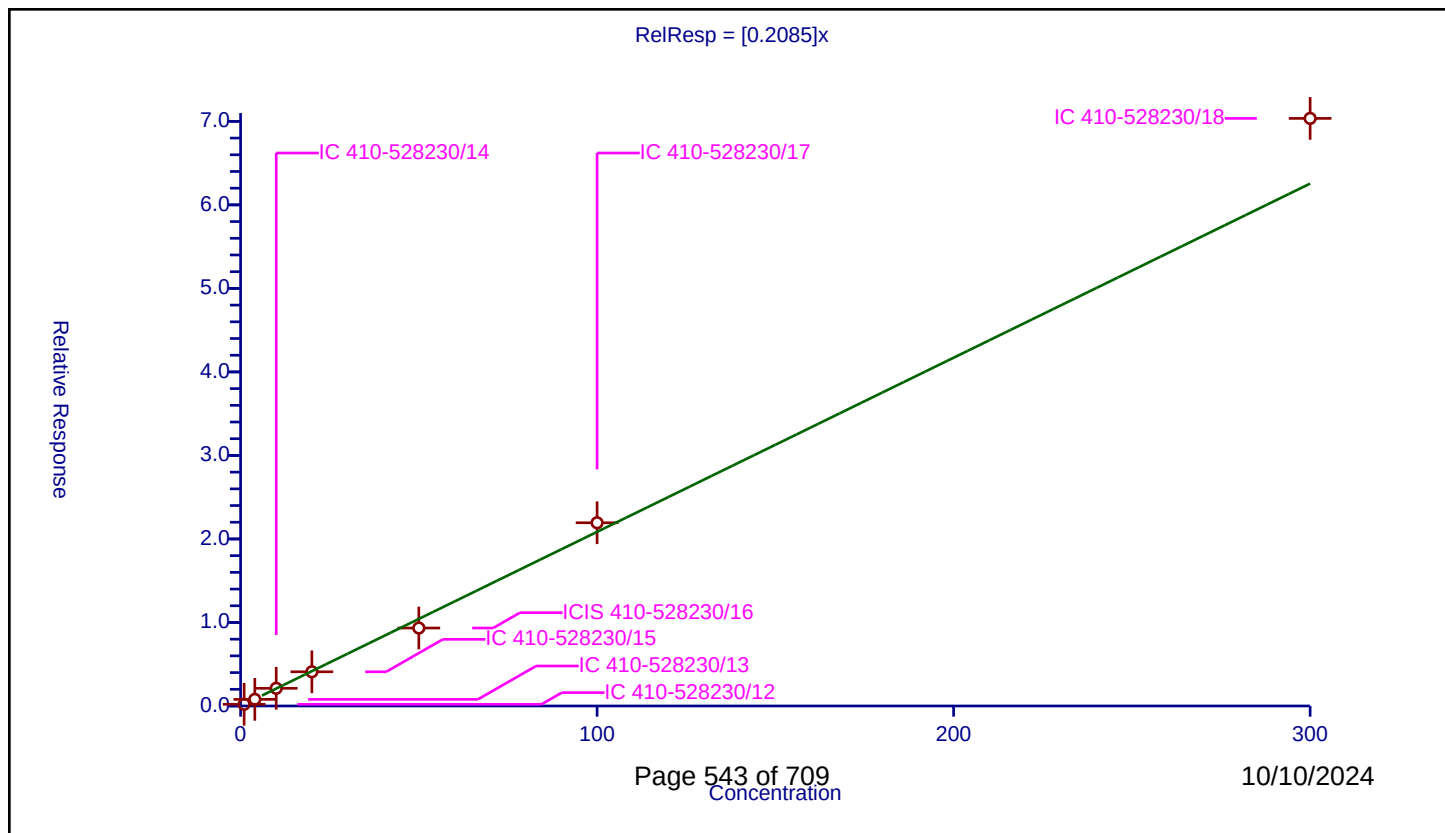
Curve Coefficients

Intercept: 0
Slope: 0.2085

Error Coefficients

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.204269	50.0	1134043.0	0.204269	Y
2	IC 410-528230/13	4.0	0.791954	50.0	1142427.0	0.197989	Y
3	IC 410-528230/14	10.0	2.119272	50.0	1120550.0	0.211927	Y
4	IC 410-528230/15	20.0	4.093555	50.0	1130350.0	0.204678	Y
5	ICIS 410-528230/16	50.0	9.334511	50.0	1137735.0	0.18669	Y
6	IC 410-528230/17	100.0	21.940438	50.0	1135563.0	0.219404	Y
7	IC 410-528230/18	300.0	70.35459	50.0	1161340.0	0.234515	Y

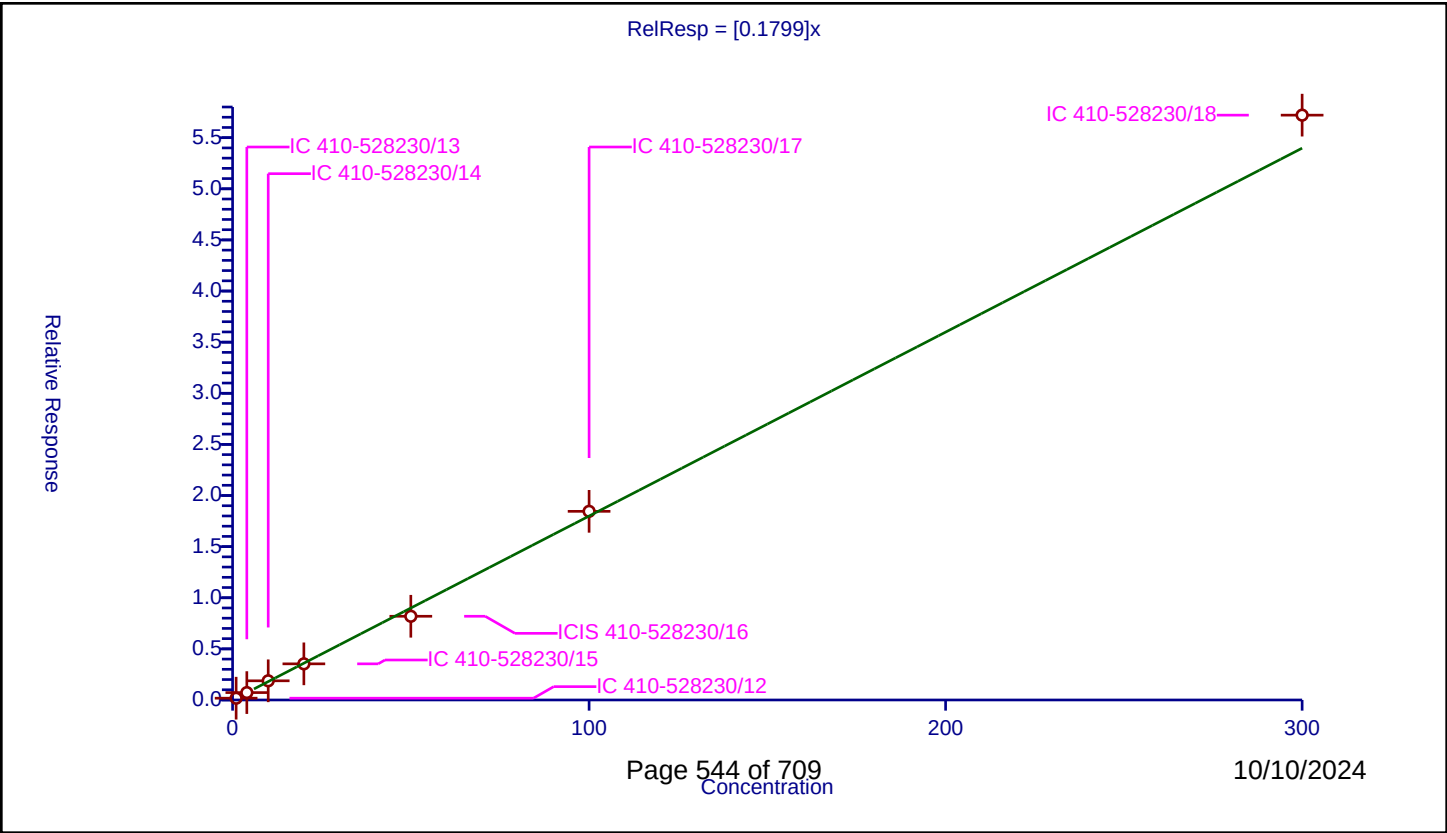


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1799
Error Coefficients	

Relative Standard Deviation: 5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.175258	50.0	1134043.0	0.175258	Y
2	IC 410-528230/13	4.0	0.72276	50.0	1142427.0	0.18069	Y
3	IC 410-528230/14	10.0	1.87756	50.0	1120550.0	0.187756	Y
4	IC 410-528230/15	20.0	3.534436	50.0	1130350.0	0.176722	Y
5	ICIS 410-528230/16	50.0	8.189605	50.0	1137735.0	0.163792	Y
6	IC 410-528230/17	100.0	18.453137	50.0	1135563.0	0.184531	Y
7	IC 410-528230/18	300.0	57.204092	50.0	1161340.0	0.19068	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

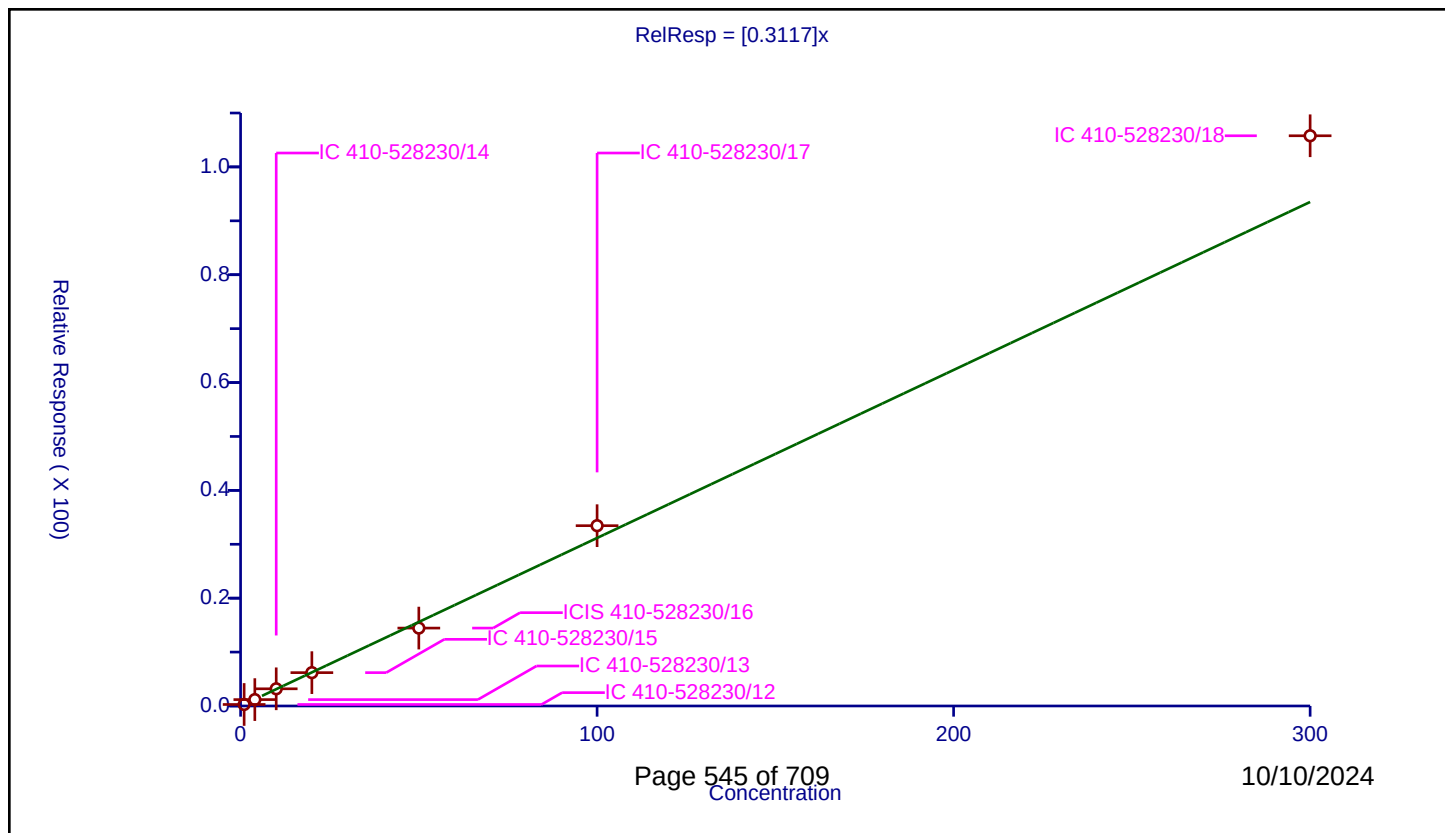
Curve Coefficients

Intercept: 0
 Slope: 0.3117

Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.280809	50.0	1134043.0	0.280809	Y
2	IC 410-528230/13	4.0	1.186246	50.0	1142427.0	0.296562	Y
3	IC 410-528230/14	10.0	3.189327	50.0	1120550.0	0.318933	Y
4	IC 410-528230/15	20.0	6.183616	50.0	1130350.0	0.309181	Y
5	ICIS 410-528230/16	50.0	14.452135	50.0	1137735.0	0.289043	Y
6	IC 410-528230/17	100.0	33.44548	50.0	1135563.0	0.334455	Y
7	IC 410-528230/18	300.0	105.779401	50.0	1161340.0	0.352598	Y

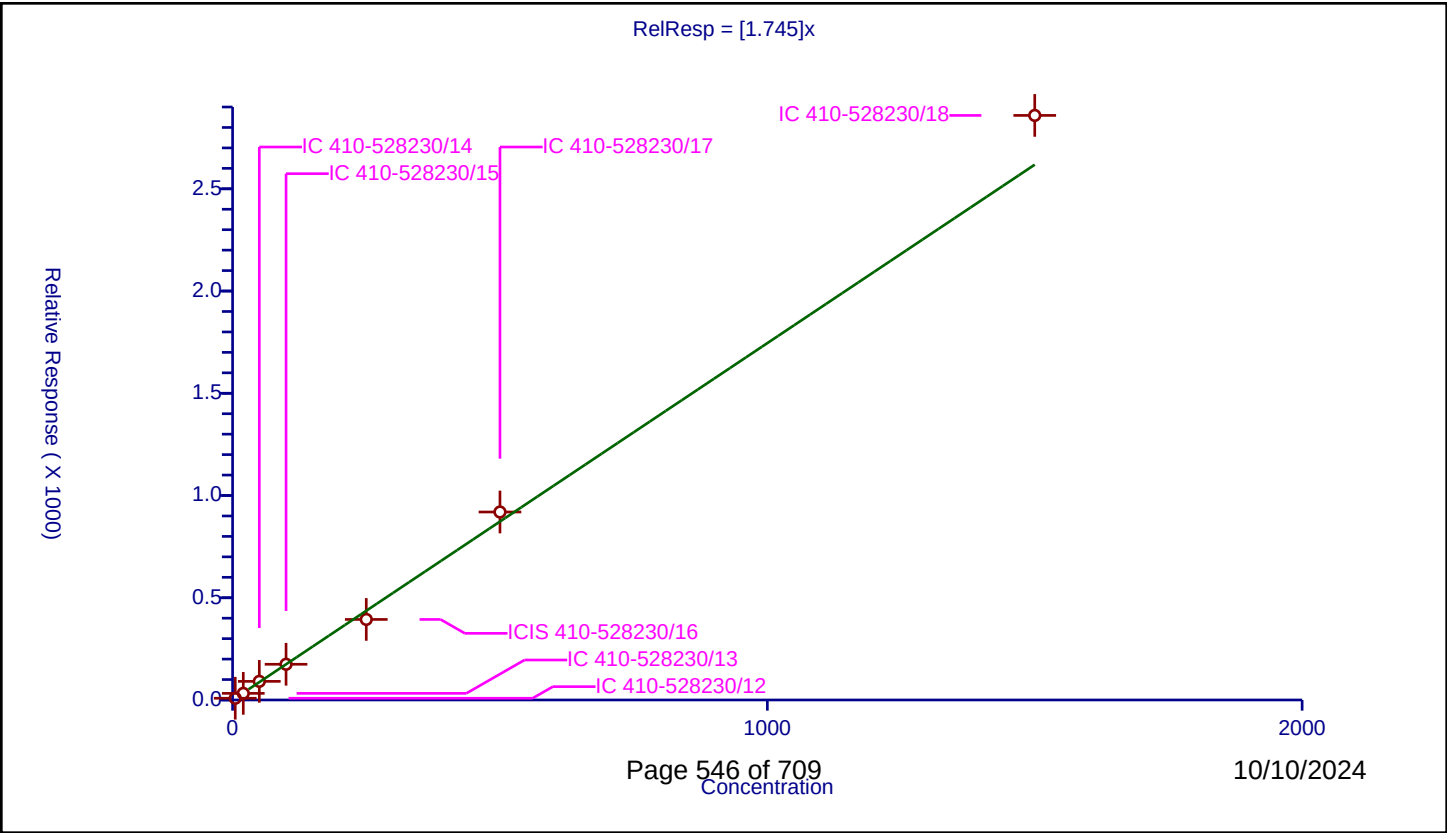


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.745
Error Coefficients	

Relative Standard Deviation: 6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	5.0	8.535324	250.0	280335.0	1.707065	Y
2	IC 410-528230/13	20.0	32.402045	250.0	286610.0	1.620102	Y
3	IC 410-528230/14	50.0	91.137064	250.0	282130.0	1.822741	Y
4	IC 410-528230/15	100.0	174.668897	250.0	293866.0	1.746689	Y
5	ICIS 410-528230/16	250.0	393.98315	250.0	295545.0	1.575933	Y
6	IC 410-528230/17	500.0	919.405625	250.0	300753.0	1.838811	Y
7	IC 410-528230/18	1500.0	2858.903802	250.0	307262.0	1.905936	Y



Calibration

/ 2-Chloroethyl vinyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

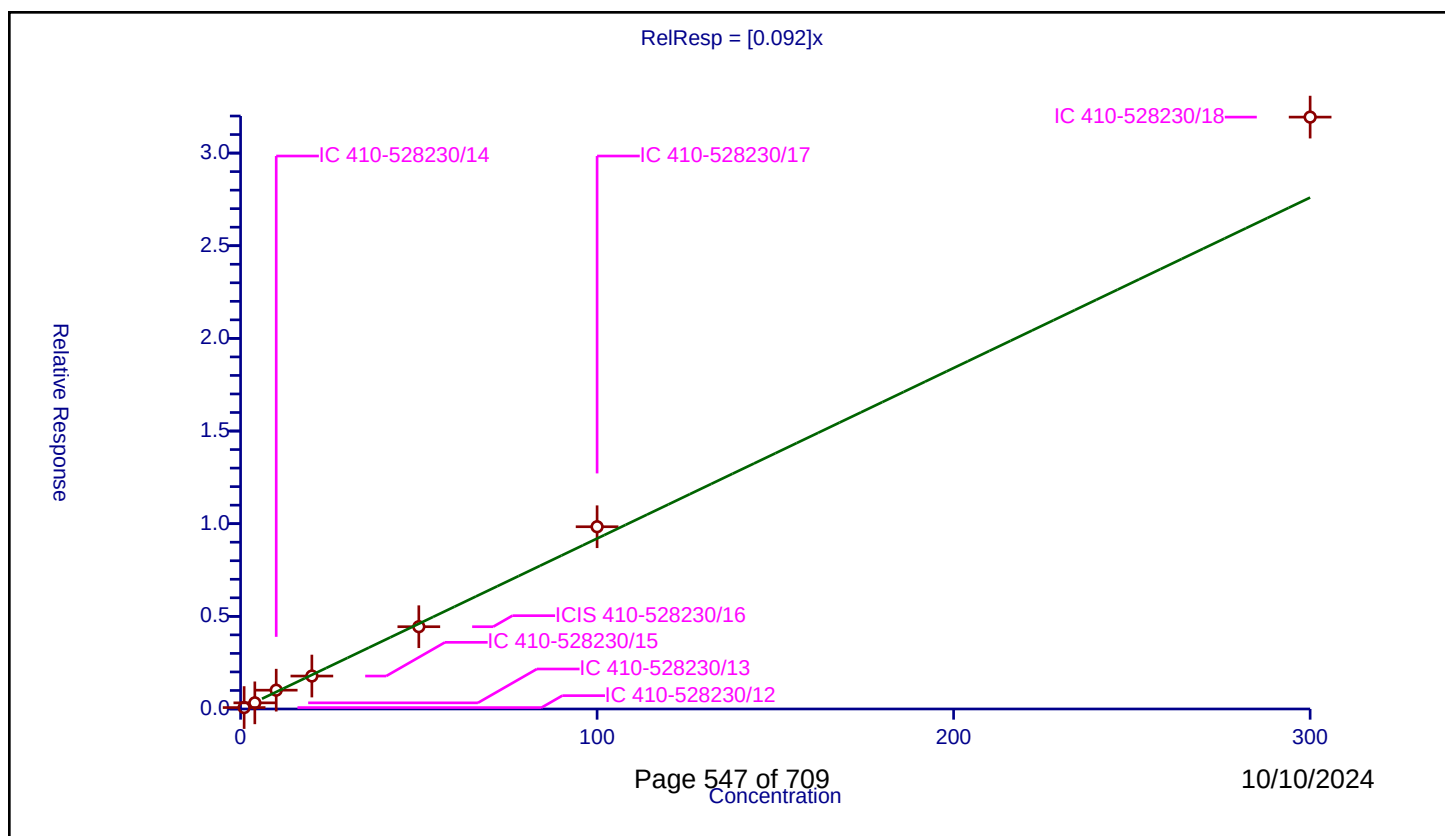
Curve Coefficients

Intercept: 0
Slope: 0.092

Error Coefficients

Relative Standard Deviation: 11.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.076981	50.0	1134043.0	0.076981	Y
2	IC 410-528230/13	4.0	0.332012	50.0	1142427.0	0.083003	Y
3	IC 410-528230/14	10.0	1.014636	50.0	1120550.0	0.101464	Y
4	IC 410-528230/15	20.0	1.778299	50.0	1130350.0	0.088915	Y
5	ICIS 410-528230/16	50.0	4.440709	50.0	1137735.0	0.088814	Y
6	IC 410-528230/17	100.0	9.835121	50.0	1135563.0	0.098351	Y
7	IC 410-528230/18	300.0	31.941507	50.0	1161340.0	0.106472	Y



Calibration

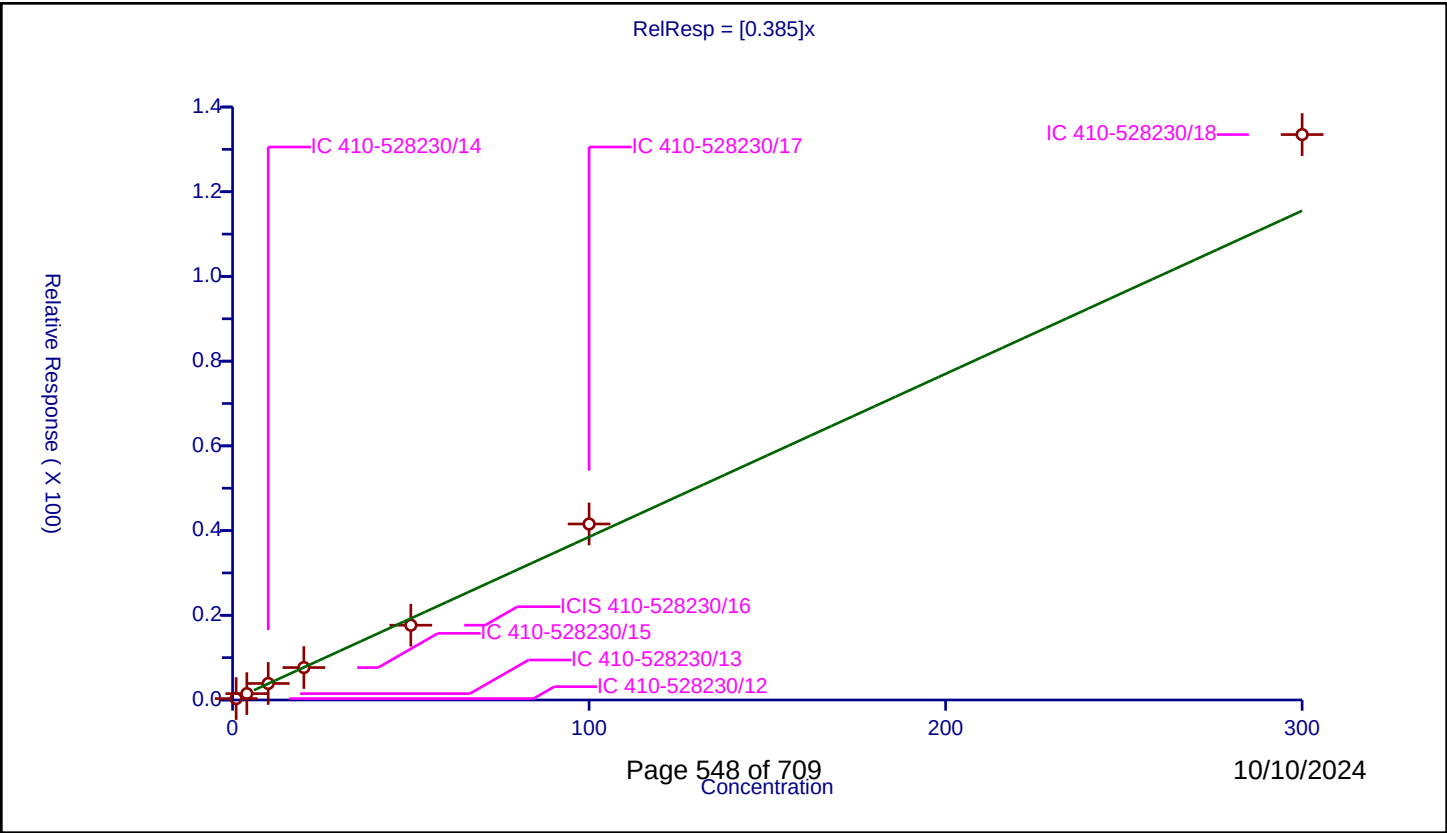
/ cis-1,3-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.385
Error Coefficients	

Relative Standard Deviation: 9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.332924	50.0	1134043.0	0.332924	Y
2	IC 410-528230/13	4.0	1.501671	50.0	1142427.0	0.375418	Y
3	IC 410-528230/14	10.0	3.901209	50.0	1120550.0	0.390121	Y
4	IC 410-528230/15	20.0	7.659884	50.0	1130350.0	0.382994	Y
5	ICIS 410-528230/16	50.0	17.658901	50.0	1137735.0	0.353178	Y
6	IC 410-528230/17	100.0	41.5578	50.0	1135563.0	0.415578	Y
7	IC 410-528230/18	300.0	133.496134	50.0	1161340.0	0.444987	Y



Calibration

/ 4-Methyl-2-pentanone (MIBK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

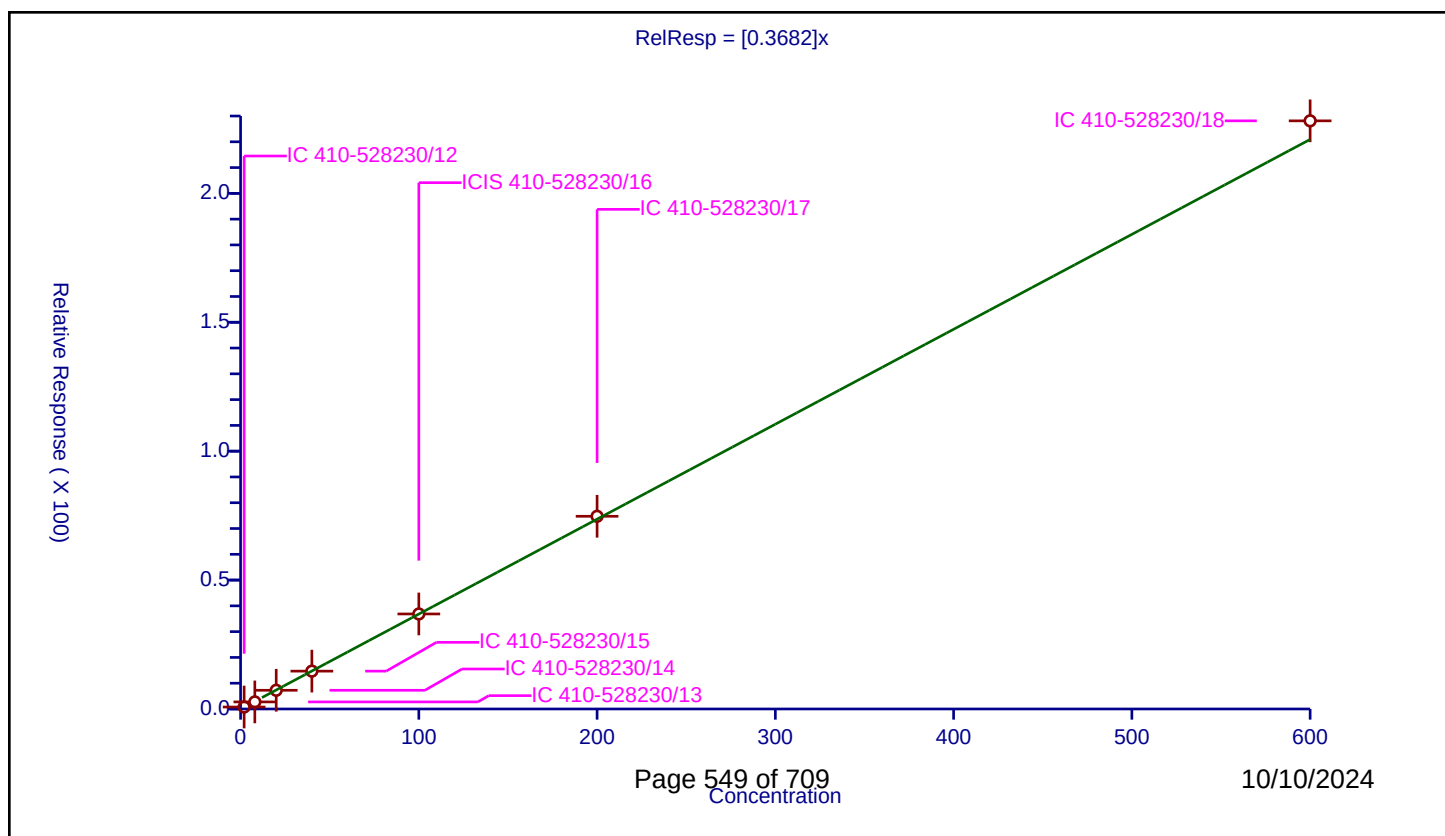
Curve Coefficients

Intercept: 0
 Slope: 0.3682

Error Coefficients

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	2.0	0.762802	50.0	1134043.0	0.381401	Y
2	IC 410-528230/13	8.0	2.747878	50.0	1142427.0	0.343485	Y
3	IC 410-528230/14	20.0	7.258534	50.0	1120550.0	0.362927	Y
4	IC 410-528230/15	40.0	14.682842	50.0	1130350.0	0.367071	Y
5	ICIS 410-528230/16	100.0	36.855727	50.0	1137735.0	0.368557	Y
6	IC 410-528230/17	200.0	74.741076	50.0	1135563.0	0.373705	Y
7	IC 410-528230/18	600.0	228.127379	50.0	1161340.0	0.380212	Y



Calibration

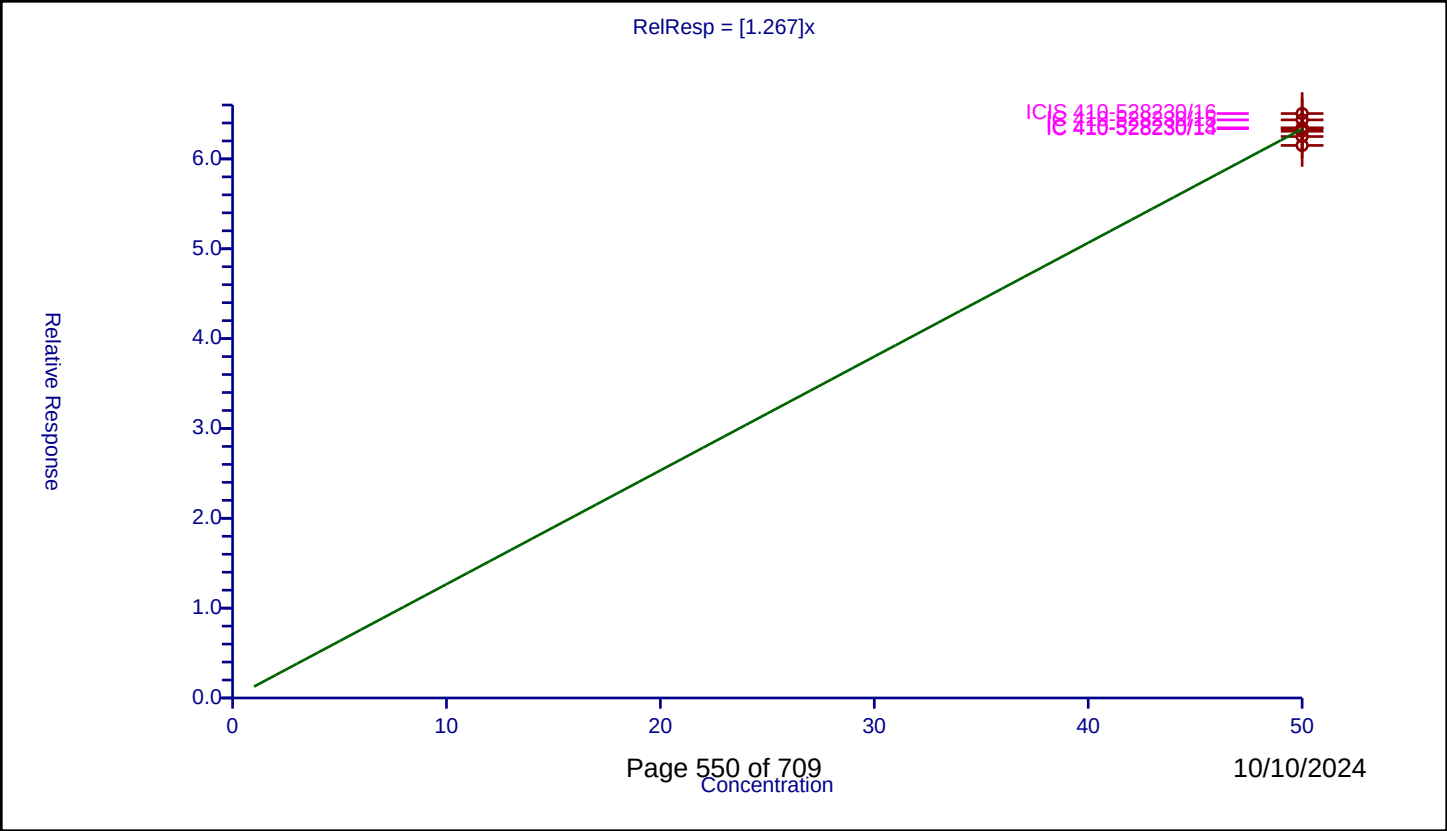
/ Toluene-d8 (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.267

Error Coefficients	
Relative Standard Deviation:	1.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	50.0	62.492584	50.0	900098.0	1.249852	Y
2	IC 410-528230/13	50.0	63.464256	50.0	895289.0	1.269285	Y
3	IC 410-528230/14	50.0	63.368699	50.0	888628.0	1.267374	Y
4	IC 410-528230/15	50.0	64.345902	50.0	873333.0	1.286918	Y
5	ICIS 410-528230/16	50.0	65.049589	50.0	856741.0	1.300992	Y
6	IC 410-528230/17	50.0	63.082577	50.0	917583.0	1.261652	Y
7	IC 410-528230/18	50.0	61.504422	50.0	1004140.0	1.230088	Y



Calibration

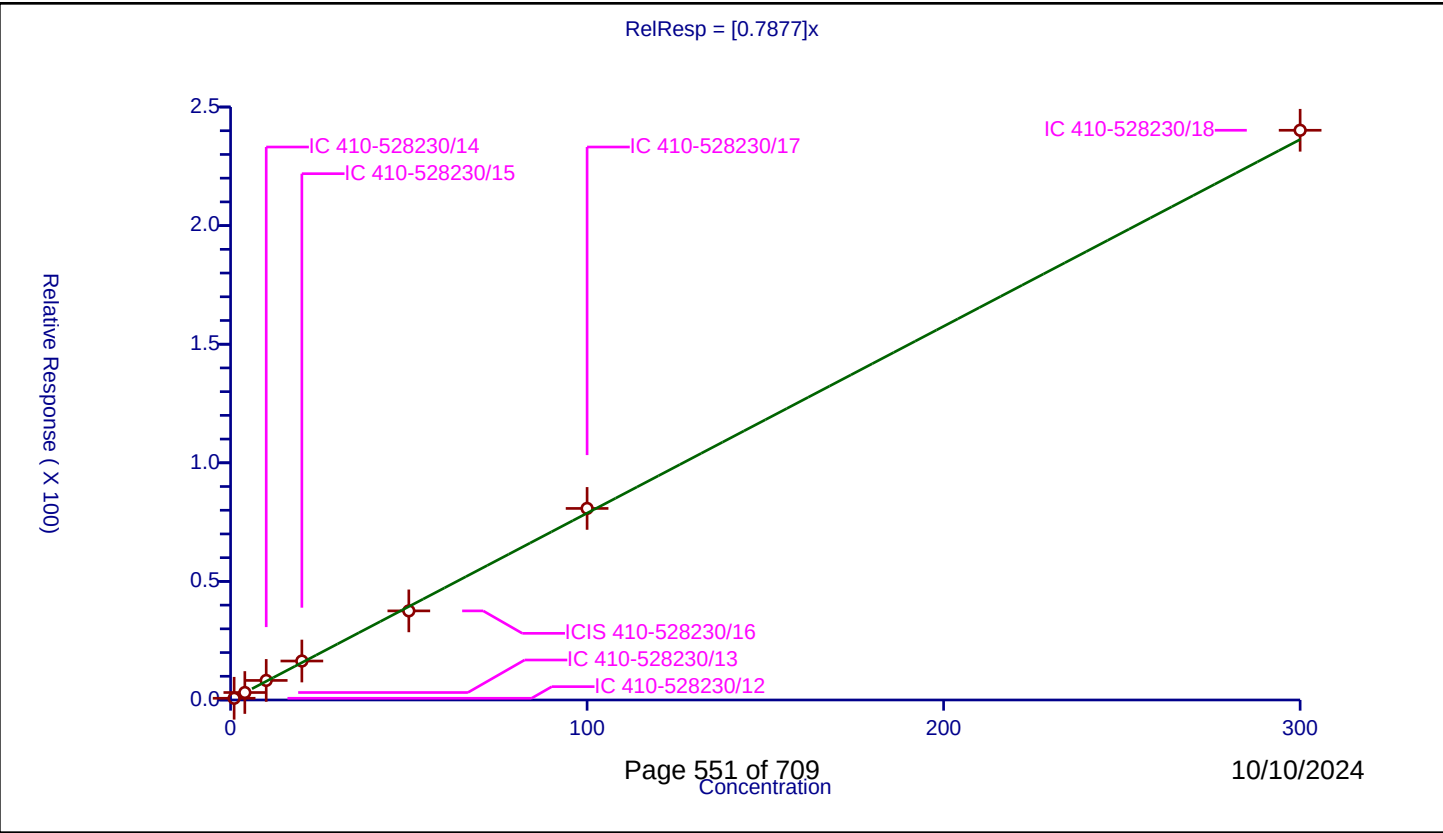
/ Toluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7877
Error Coefficients	

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.720477	50.0	900098.0	0.720477	Y
2	IC 410-528230/13	4.0	3.1501	50.0	895289.0	0.787525	Y
3	IC 410-528230/14	10.0	8.248502	50.0	888628.0	0.82485	Y
4	IC 410-528230/15	20.0	16.426896	50.0	873333.0	0.821345	Y
5	ICIS 410-528230/16	50.0	37.569639	50.0	856741.0	0.751393	Y
6	IC 410-528230/17	100.0	80.765064	50.0	917583.0	0.807651	Y
7	IC 410-528230/18	300.0	240.19071	50.0	1004140.0	0.800636	Y



Calibration

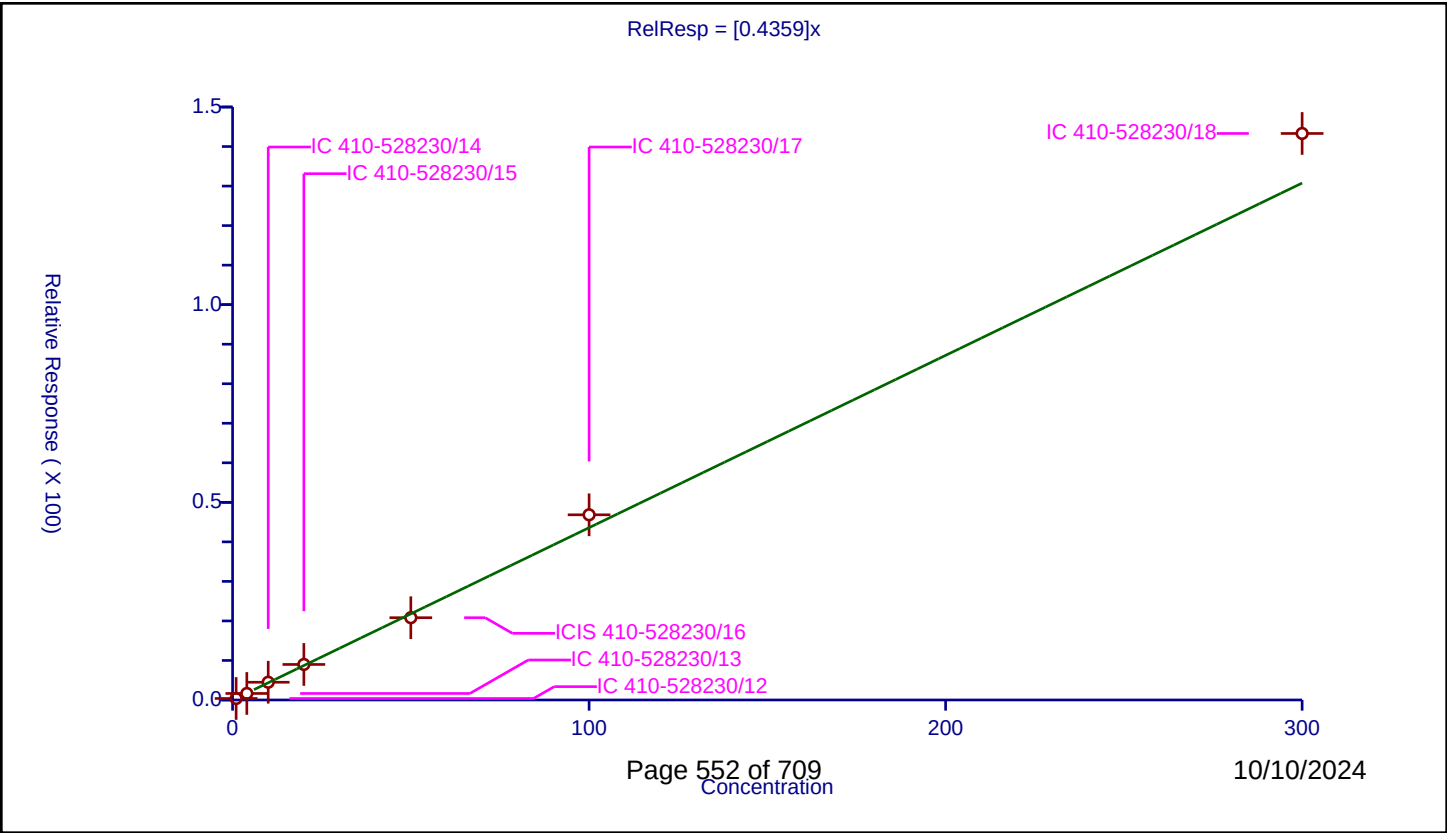
/ trans-1,3-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4359
Error Coefficients	

Relative Standard Deviation: 8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.377792	50.0	900098.0	0.377792	Y
2	IC 410-528230/13	4.0	1.650975	50.0	895289.0	0.412744	Y
3	IC 410-528230/14	10.0	4.48748	50.0	888628.0	0.448748	Y
4	IC 410-528230/15	20.0	8.988324	50.0	873333.0	0.449416	Y
5	ICIS 410-528230/16	50.0	20.814867	50.0	856741.0	0.416297	Y
6	IC 410-528230/17	100.0	46.847533	50.0	917583.0	0.468475	Y
7	IC 410-528230/18	300.0	143.307457	50.0	1004140.0	0.477692	Y



Calibration

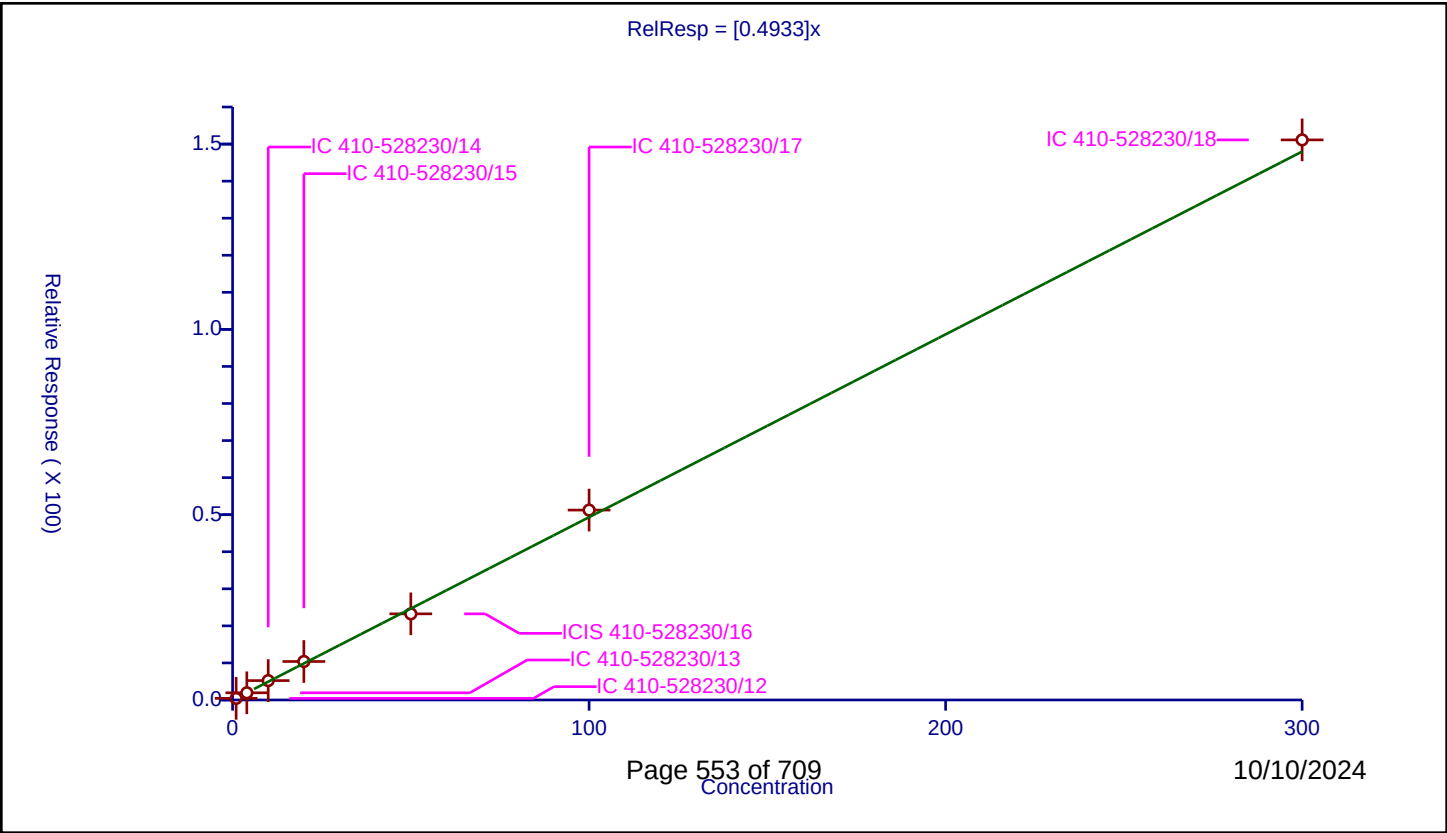
/ Ethyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4933
Error Coefficients	

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.44484	50.0	900098.0	0.44484	Y
2	IC 410-528230/13	4.0	1.936637	50.0	895289.0	0.484159	Y
3	IC 410-528230/14	10.0	5.231604	50.0	888628.0	0.52316	Y
4	IC 410-528230/15	20.0	10.389508	50.0	873333.0	0.519475	Y
5	ICIS 410-528230/16	50.0	23.247808	50.0	856741.0	0.464956	Y
6	IC 410-528230/17	100.0	51.239997	50.0	917583.0	0.5124	Y
7	IC 410-528230/18	300.0	151.128379	50.0	1004140.0	0.503761	Y



Calibration

/ 1,1,2-Trichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

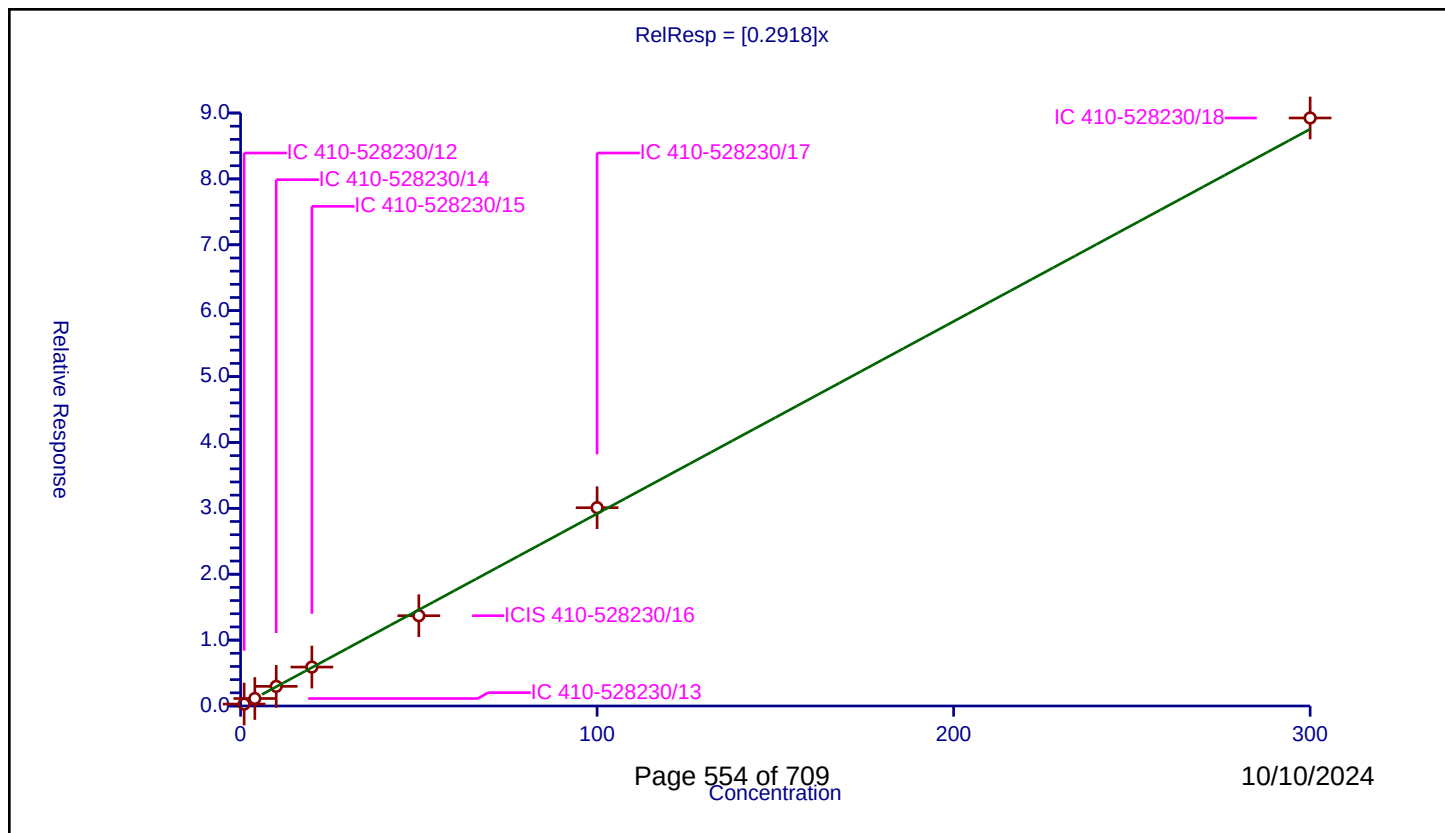
Curve Coefficients

Intercept: 0
Slope: 0.2918

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.293468	50.0	900098.0	0.293468	Y
2	IC 410-528230/13	4.0	1.134047	50.0	895289.0	0.283512	Y
3	IC 410-528230/14	10.0	2.979706	50.0	888628.0	0.297971	Y
4	IC 410-528230/15	20.0	5.908914	50.0	873333.0	0.295446	Y
5	ICIS 410-528230/16	50.0	13.703033	50.0	856741.0	0.274061	Y
6	IC 410-528230/17	100.0	30.09379	50.0	917583.0	0.300938	Y
7	IC 410-528230/18	300.0	89.246918	50.0	1004140.0	0.29749	Y



Calibration

/ Tetrachloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

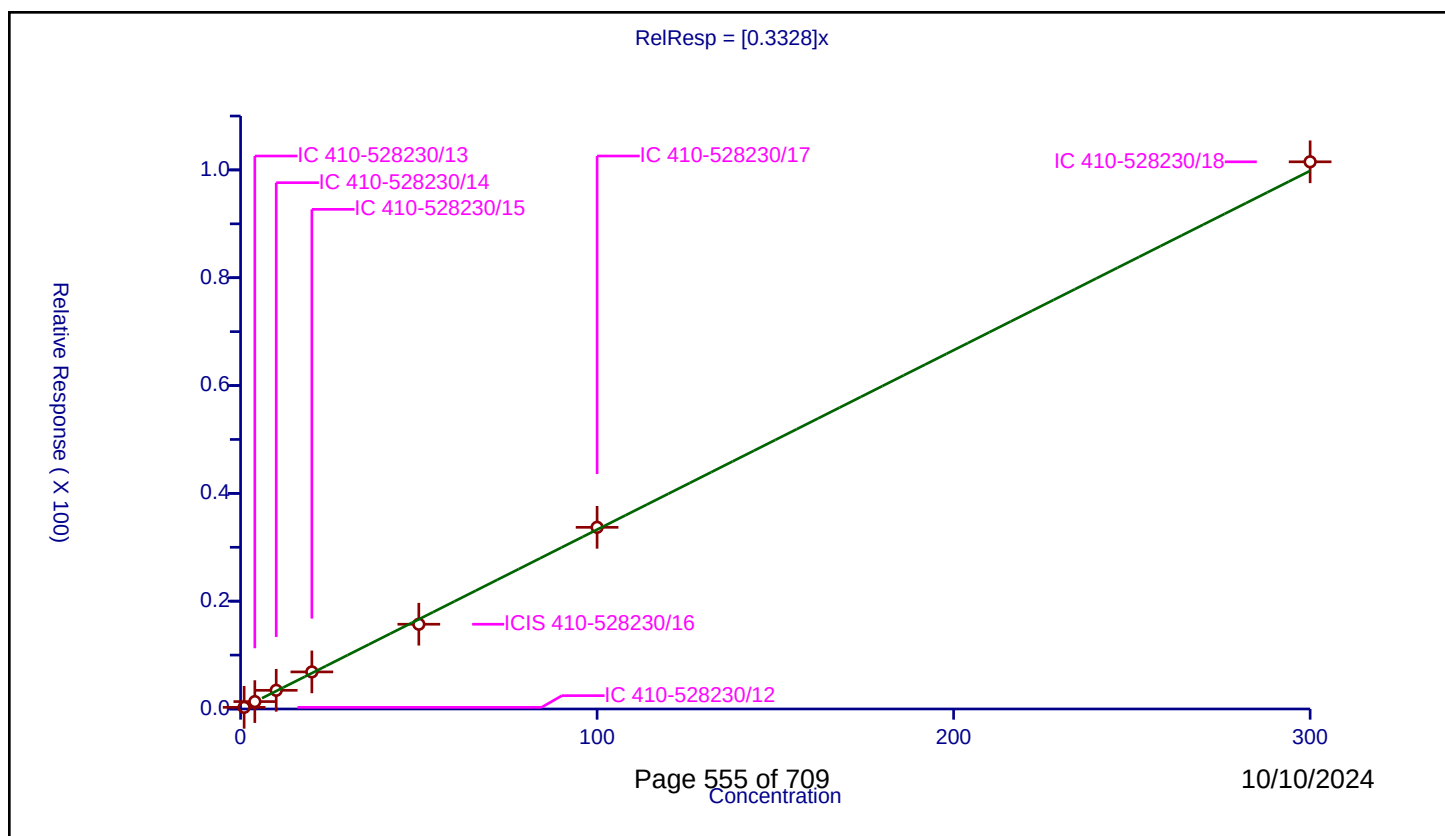
Curve Coefficients

Intercept: 0
Slope: 0.3328

Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.306356	50.0	900098.0	0.306356	Y
2	IC 410-528230/13	4.0	1.371792	50.0	895289.0	0.342948	Y
3	IC 410-528230/14	10.0	3.464048	50.0	888628.0	0.346405	Y
4	IC 410-528230/15	20.0	6.876873	50.0	873333.0	0.343844	Y
5	ICIS 410-528230/16	50.0	15.723889	50.0	856741.0	0.314478	Y
6	IC 410-528230/17	100.0	33.698968	50.0	917583.0	0.33699	Y
7	IC 410-528230/18	300.0	101.507111	50.0	1004140.0	0.338357	Y



Calibration

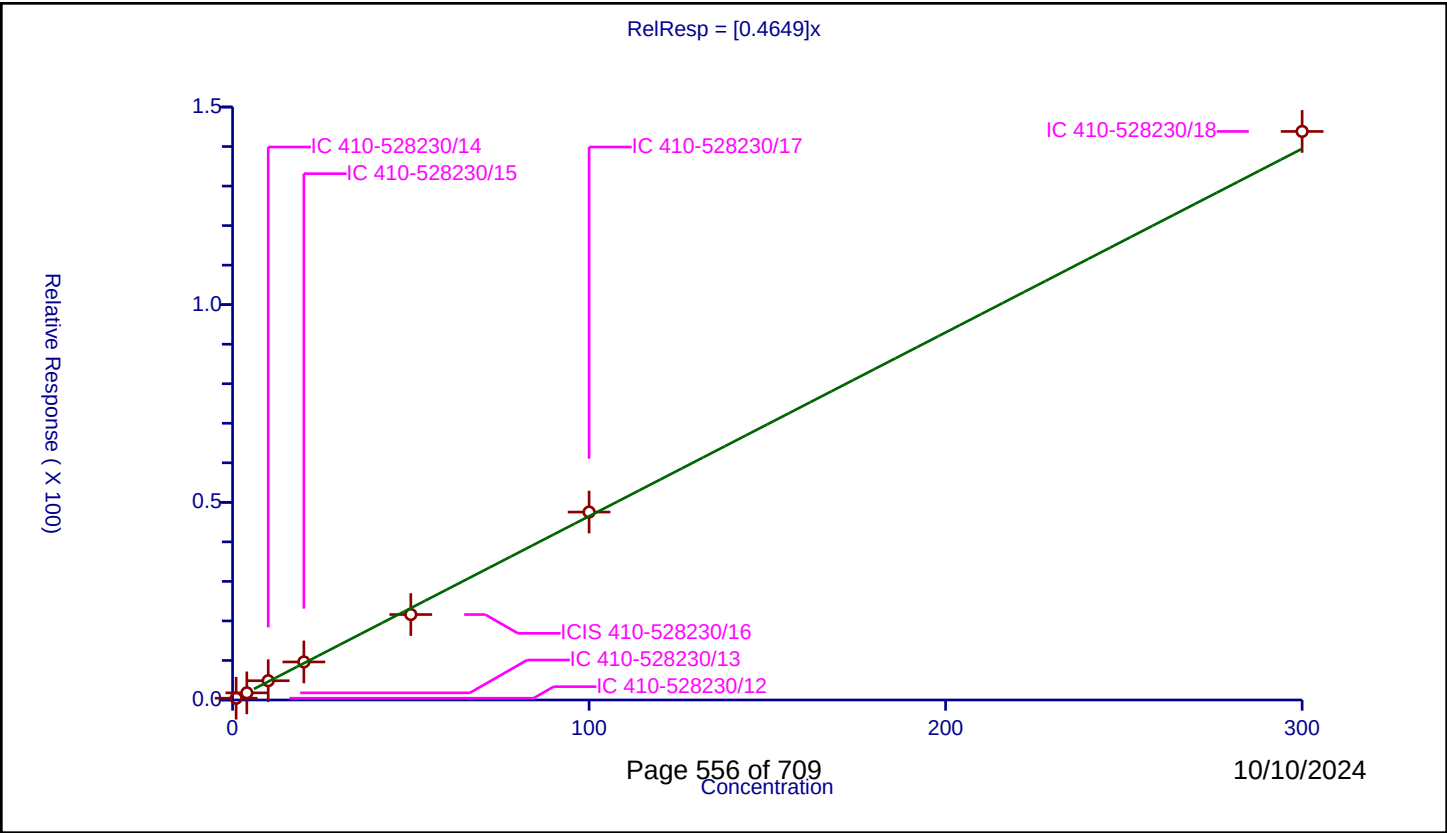
/ 1,3-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4649
Error Coefficients	

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.447396	50.0	900098.0	0.447396	Y
2	IC 410-528230/13	4.0	1.802044	50.0	895289.0	0.450511	Y
3	IC 410-528230/14	10.0	4.876225	50.0	888628.0	0.487622	Y
4	IC 410-528230/15	20.0	9.625996	50.0	873333.0	0.4813	Y
5	ICIS 410-528230/16	50.0	21.617443	50.0	856741.0	0.432349	Y
6	IC 410-528230/17	100.0	47.537389	50.0	917583.0	0.475374	Y
7	IC 410-528230/18	300.0	143.822425	50.0	1004140.0	0.479408	Y



Calibration

/ 2-Hexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

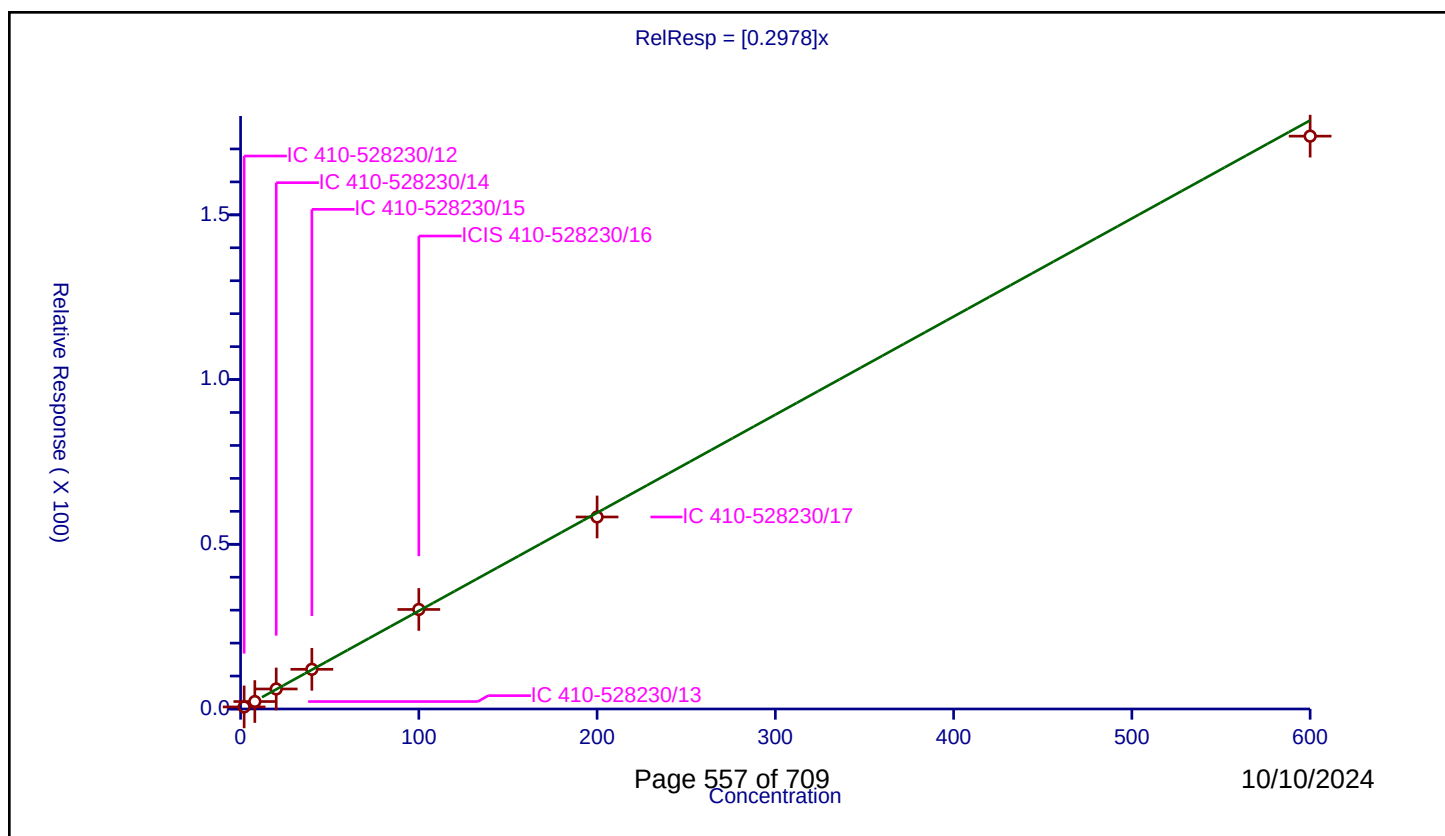
Curve Coefficients

Intercept: 0
Slope: 0.2978

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	2.0	0.626821	50.0	900098.0	0.31341	Y
2	IC 410-528230/13	8.0	2.263738	50.0	895289.0	0.282967	Y
3	IC 410-528230/14	20.0	6.071269	50.0	888628.0	0.303563	Y
4	IC 410-528230/15	40.0	12.048153	50.0	873333.0	0.301204	Y
5	ICIS 410-528230/16	100.0	30.214207	50.0	856741.0	0.302142	Y
6	IC 410-528230/17	200.0	58.290531	50.0	917583.0	0.291453	Y
7	IC 410-528230/18	600.0	173.887854	50.0	1004140.0	0.289813	Y



Calibration

/ Chlorodibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

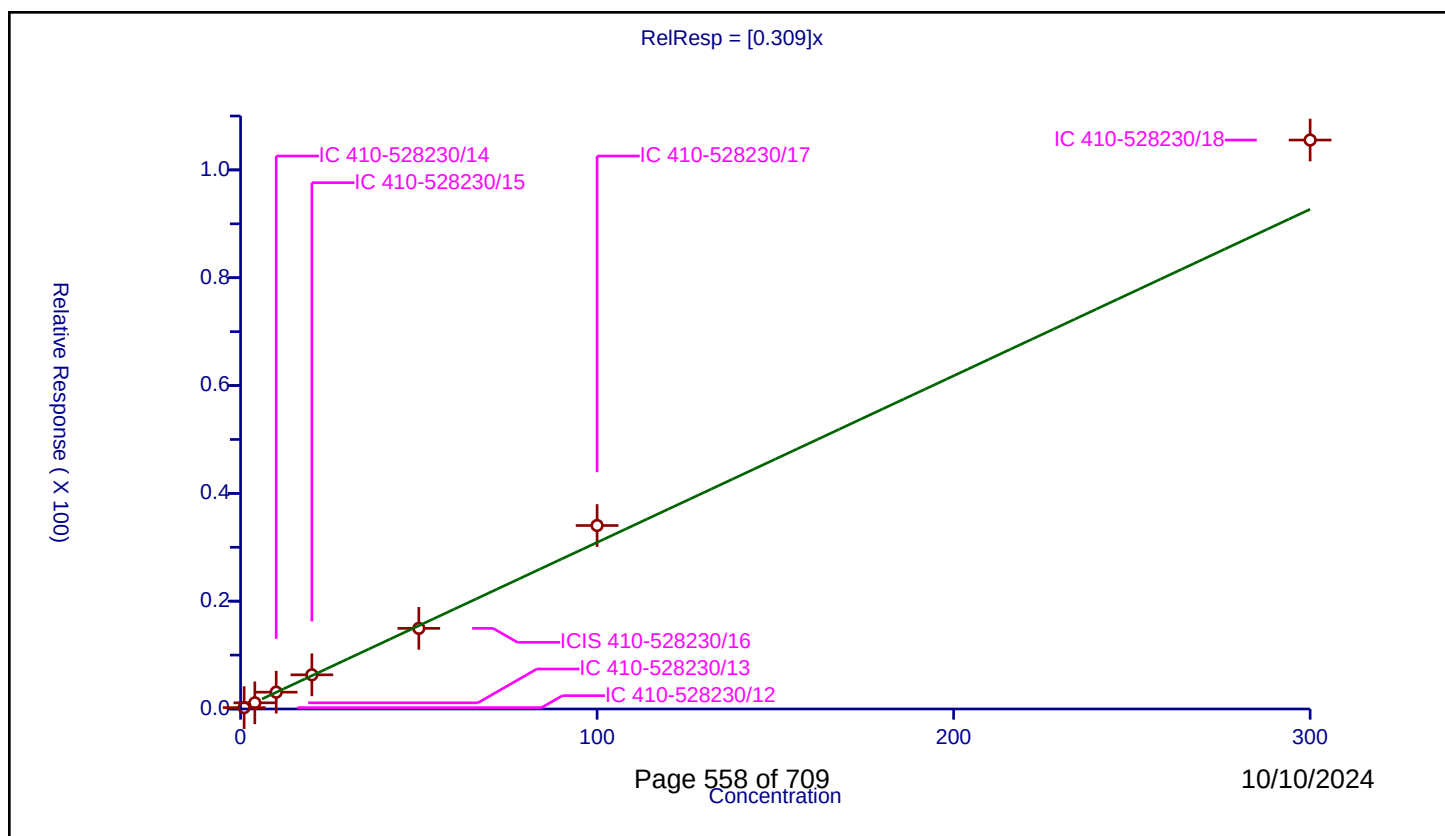
Curve Coefficients

Intercept: 0
Slope: 0.309

Error Coefficients

Relative Standard Deviation: 10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.255805	50.0	900098.0	0.255805	Y
2	IC 410-528230/13	4.0	1.147618	50.0	895289.0	0.286905	Y
3	IC 410-528230/14	10.0	3.120822	50.0	888628.0	0.312082	Y
4	IC 410-528230/15	20.0	6.341567	50.0	873333.0	0.317078	Y
5	ICIS 410-528230/16	50.0	14.954286	50.0	856741.0	0.299086	Y
6	IC 410-528230/17	100.0	34.036866	50.0	917583.0	0.340369	Y
7	IC 410-528230/18	300.0	105.542255	50.0	1004140.0	0.351808	Y



Calibration

/ Ethylene Dibromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

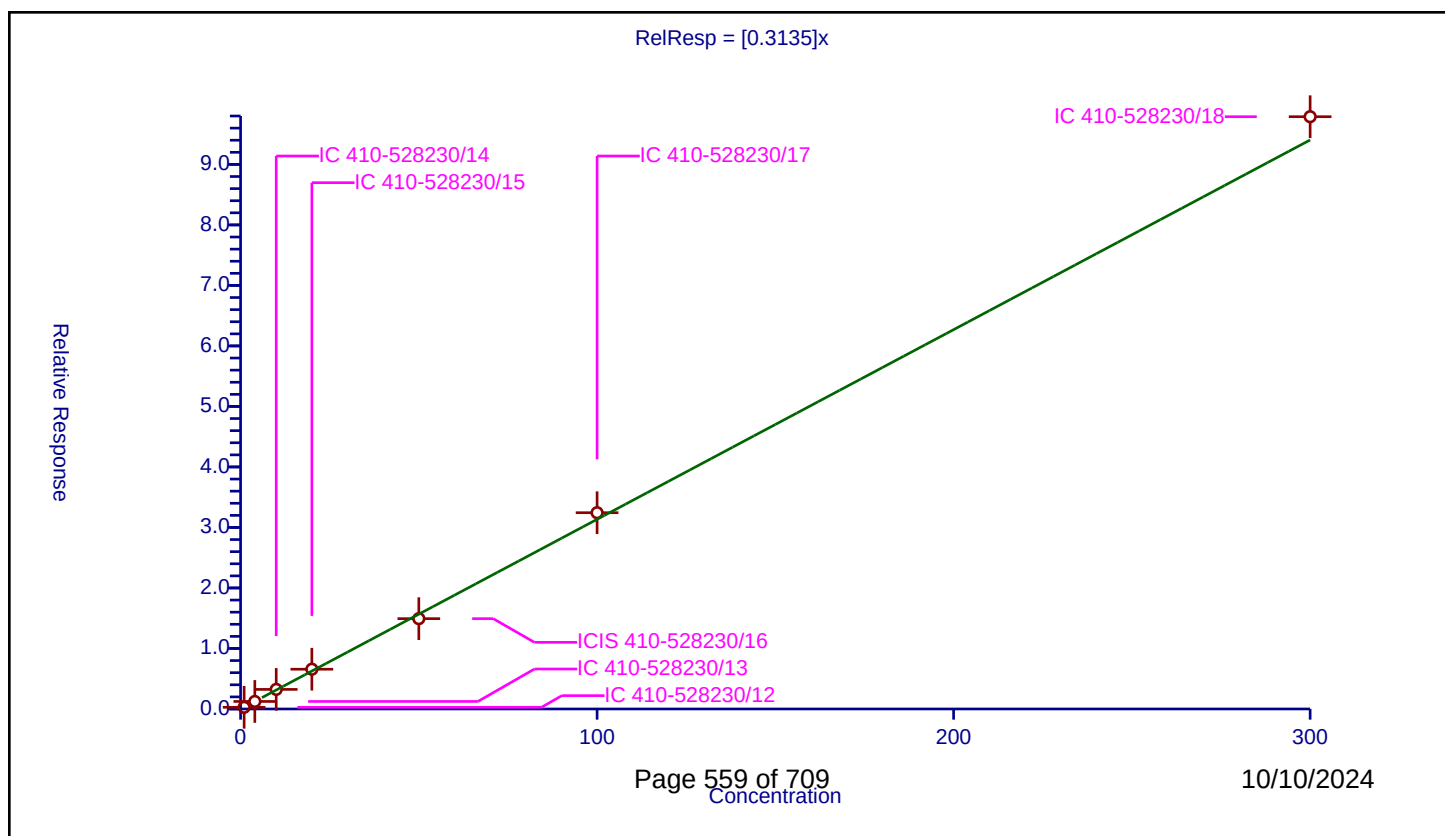
Curve Coefficients

Intercept: 0
Slope: 0.3135

Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.281858	50.0	900098.0	0.281858	Y
2	IC 410-528230/13	4.0	1.243621	50.0	895289.0	0.310905	Y
3	IC 410-528230/14	10.0	3.236787	50.0	888628.0	0.323679	Y
4	IC 410-528230/15	20.0	6.571606	50.0	873333.0	0.32858	Y
5	ICIS 410-528230/16	50.0	14.927323	50.0	856741.0	0.298546	Y
6	IC 410-528230/17	100.0	32.439463	50.0	917583.0	0.324395	Y
7	IC 410-528230/18	300.0	97.885056	50.0	1004140.0	0.326284	Y



Calibration

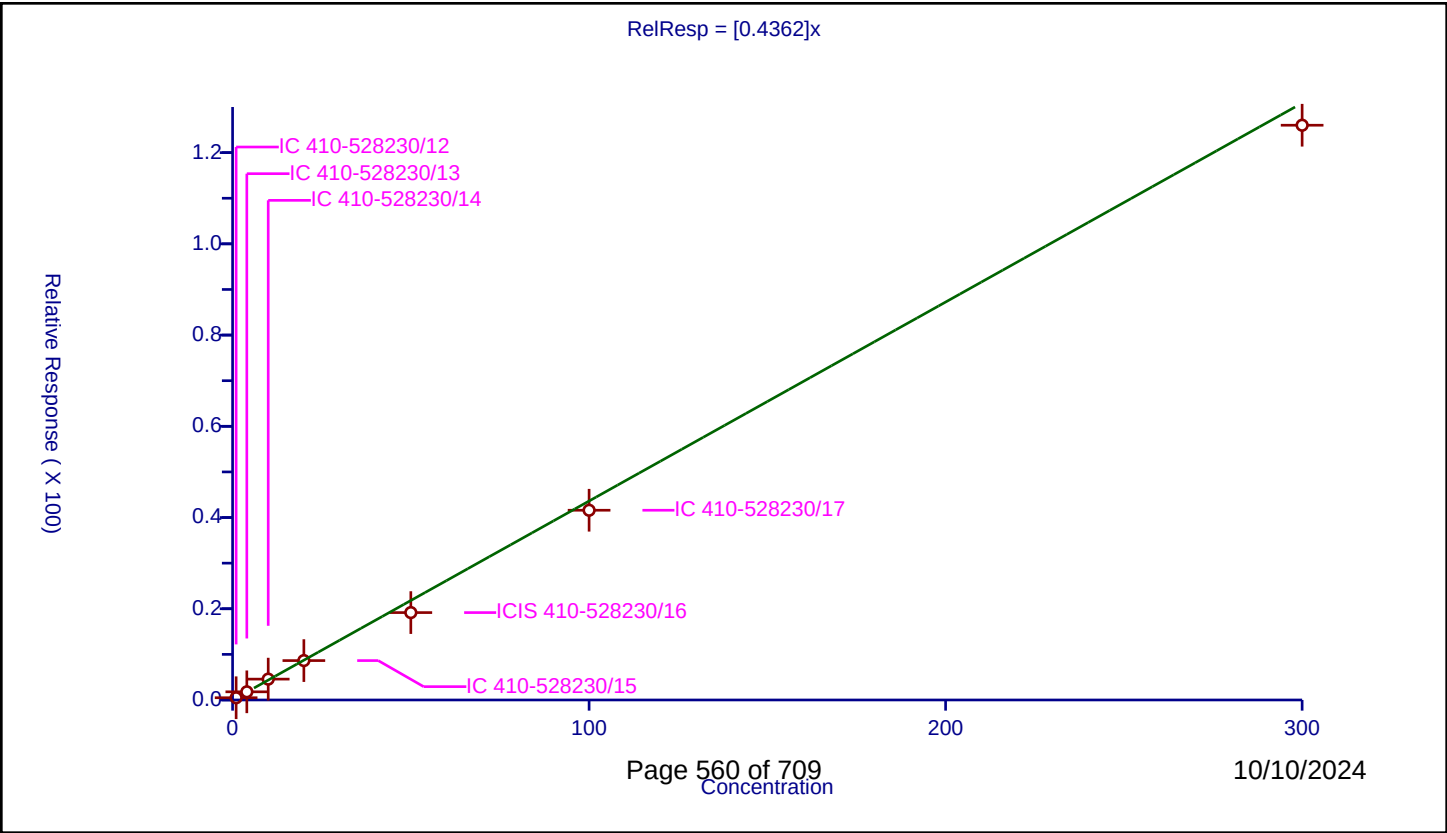
/ 1-Chlorohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4362
Error Coefficients	

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.496446	50.0	900098.0	0.496446	Y
2	IC 410-528230/13	4.0	1.793778	50.0	895289.0	0.448445	Y
3	IC 410-528230/14	10.0	4.574861	50.0	888628.0	0.457486	Y
4	IC 410-528230/15	20.0	8.637141	50.0	873333.0	0.431857	Y
5	ICIS 410-528230/16	50.0	19.162909	50.0	856741.0	0.383258	Y
6	IC 410-528230/17	100.0	41.598199	50.0	917583.0	0.415982	Y
7	IC 410-528230/18	300.0	126.007429	50.0	1004140.0	0.420025	Y



Calibration

/ Chlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

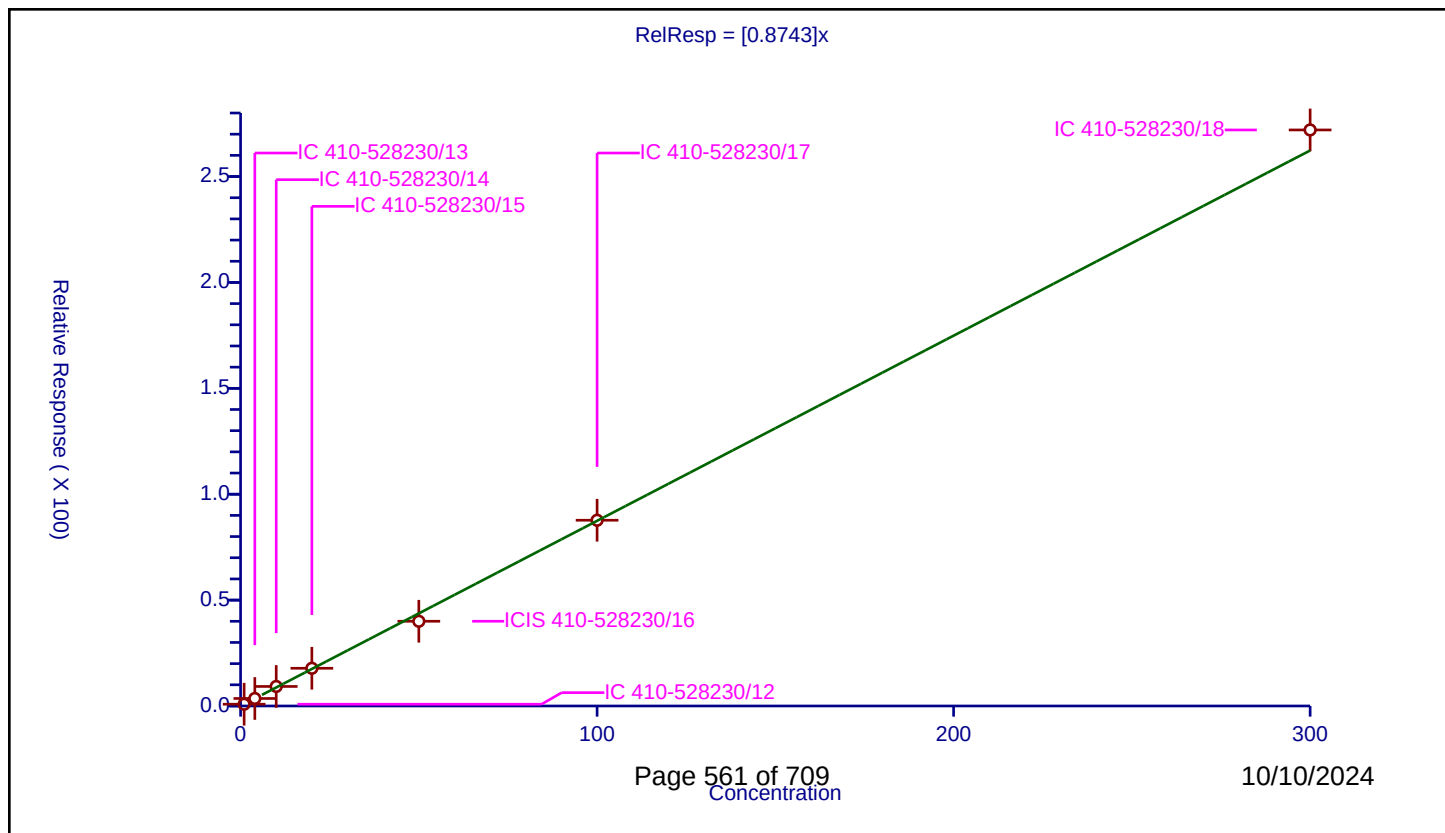
Curve Coefficients

Intercept: 0
 Slope: 0.8743

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.837909	50.0	900098.0	0.837909	Y
2	IC 410-528230/13	4.0	3.544219	50.0	895289.0	0.886055	Y
3	IC 410-528230/14	10.0	9.220112	50.0	888628.0	0.922011	Y
4	IC 410-528230/15	20.0	17.809415	50.0	873333.0	0.890471	Y
5	ICIS 410-528230/16	50.0	40.005614	50.0	856741.0	0.800112	Y
6	IC 410-528230/17	100.0	87.705526	50.0	917583.0	0.877055	Y
7	IC 410-528230/18	300.0	272.005696	50.0	1004140.0	0.906686	Y



Calibration

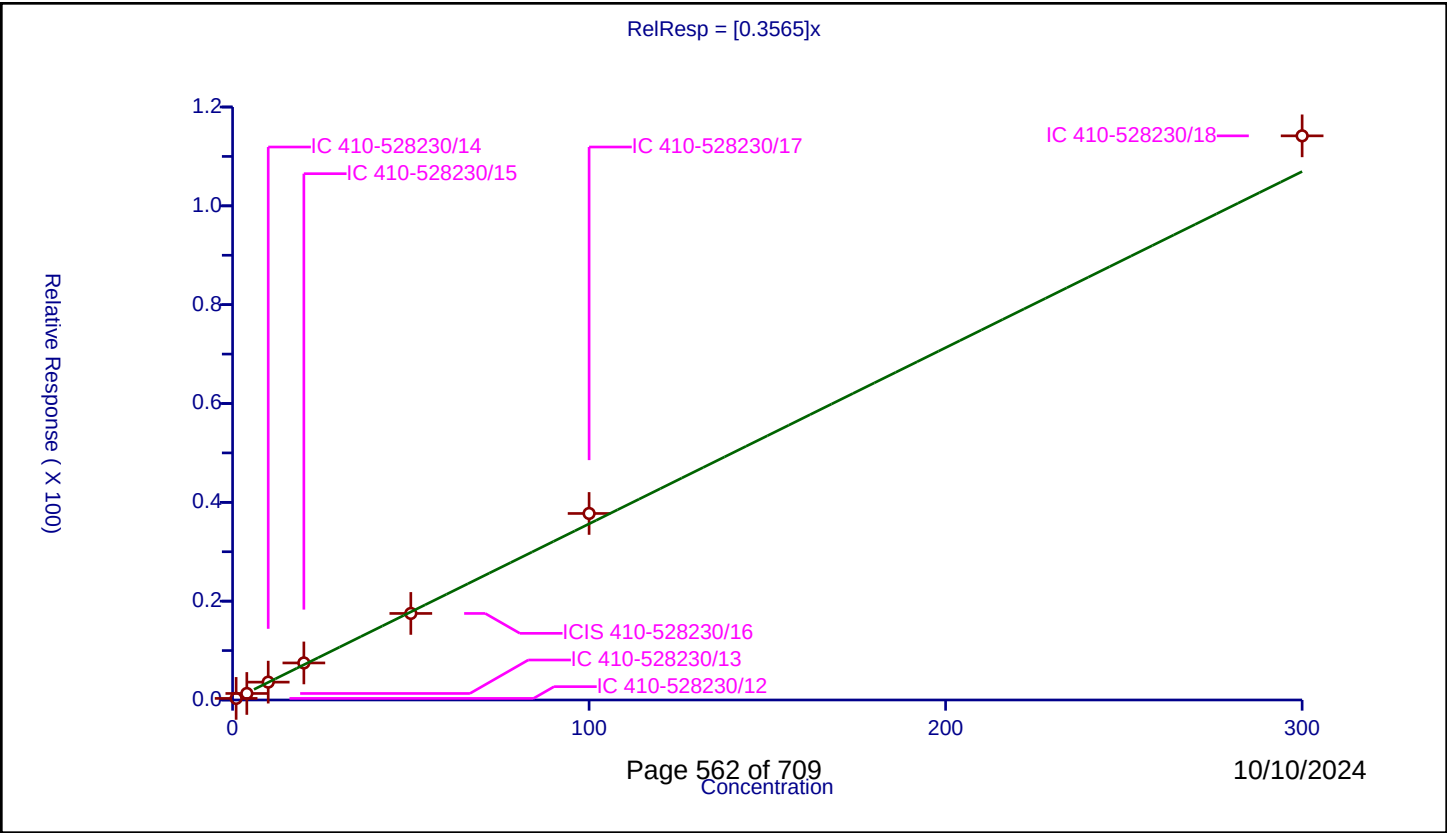
/ 1,1,1,2-Tetrachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3565
Error Coefficients	

Relative Standard Deviation: 6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.320854	50.0	900098.0	0.320854	Y
2	IC 410-528230/13	4.0	1.319853	50.0	895289.0	0.329963	Y
3	IC 410-528230/14	10.0	3.611748	50.0	888628.0	0.361175	Y
4	IC 410-528230/15	20.0	7.499888	50.0	873333.0	0.374994	Y
5	ICIS 410-528230/16	50.0	17.516963	50.0	856741.0	0.350339	Y
6	IC 410-528230/17	100.0	37.746449	50.0	917583.0	0.377464	Y
7	IC 410-528230/18	300.0	114.166401	50.0	1004140.0	0.380555	Y



Calibration

/ Ethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

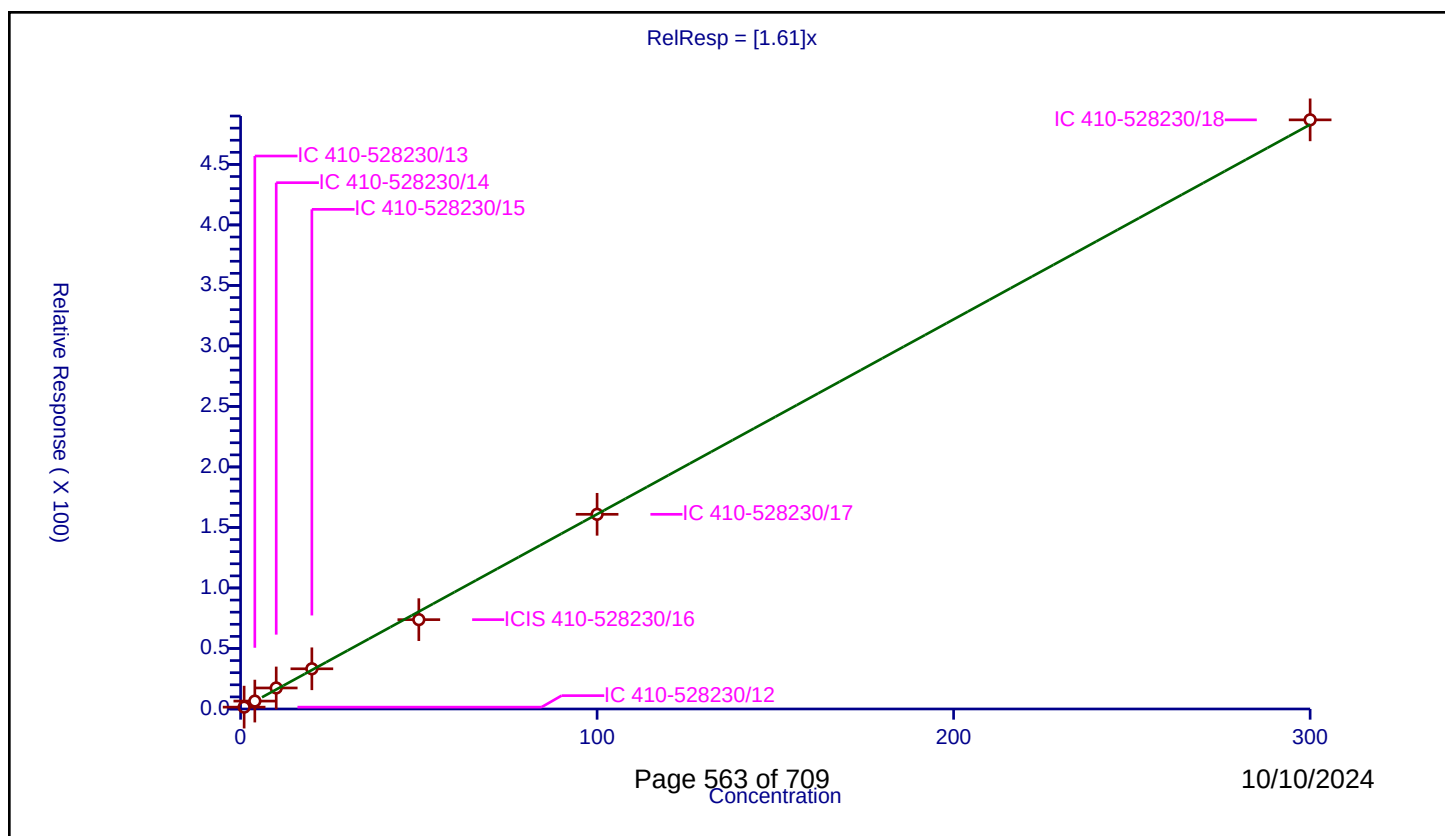
Curve Coefficients

Intercept: 0
Slope: 1.61

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	1.528667	50.0	900098.0	1.528667	Y
2	IC 410-528230/13	4.0	6.53532	50.0	895289.0	1.63383	Y
3	IC 410-528230/14	10.0	17.369811	50.0	888628.0	1.736981	Y
4	IC 410-528230/15	20.0	33.210471	50.0	873333.0	1.660524	Y
5	ICIS 410-528230/16	50.0	73.831531	50.0	856741.0	1.476631	Y
6	IC 410-528230/17	100.0	160.876945	50.0	917583.0	1.608769	Y
7	IC 410-528230/18	300.0	486.83575	50.0	1004140.0	1.622786	Y



Calibration

/ m-Xylene & p-Xylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

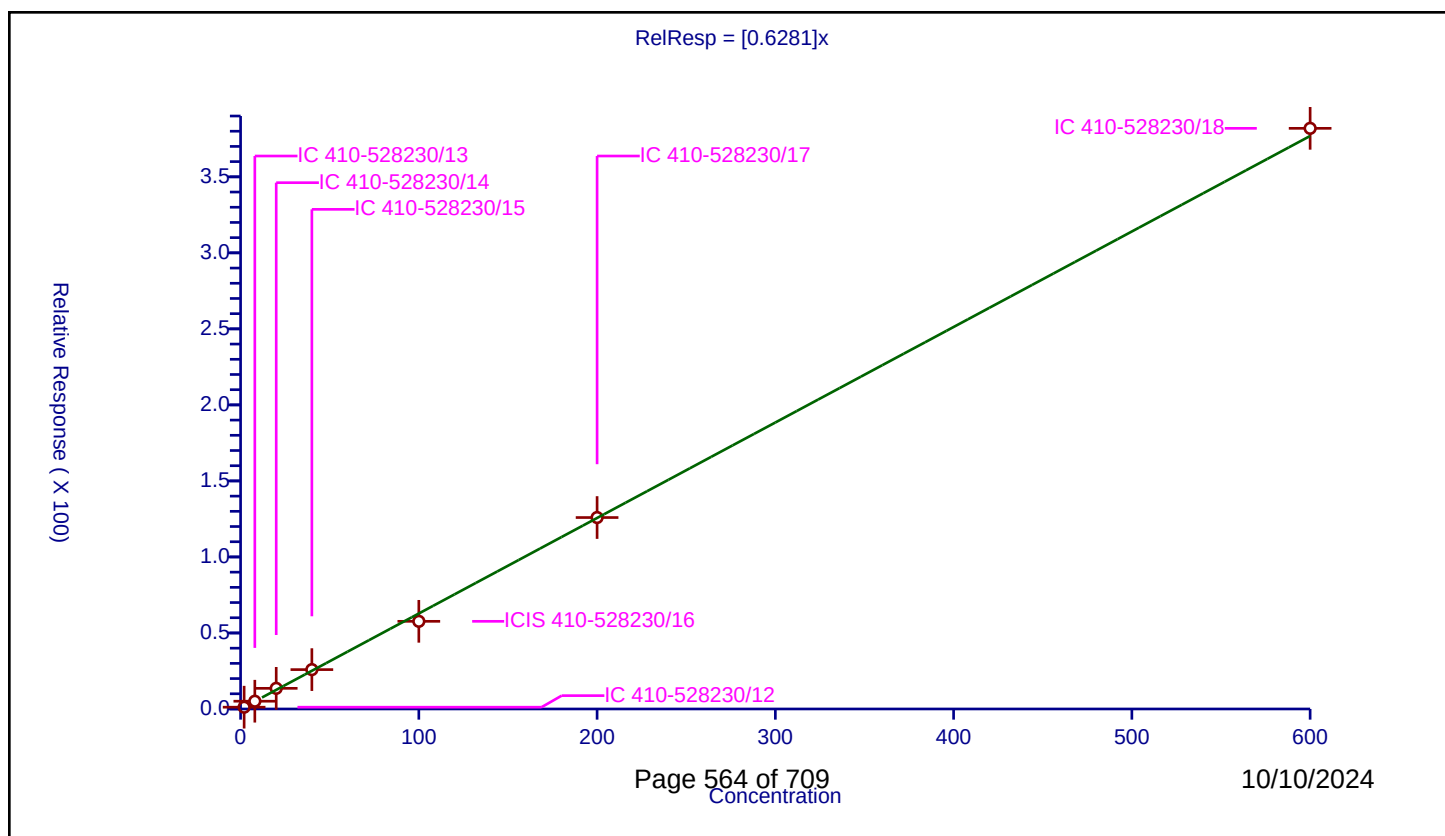
Curve Coefficients

Intercept: 0
Slope: 0.6281

Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	2.0	1.17515	50.0	900098.0	0.587575	Y
2	IC 410-528230/13	8.0	5.118403	50.0	895289.0	0.6398	Y
3	IC 410-528230/14	20.0	13.588082	50.0	888628.0	0.679404	Y
4	IC 410-528230/15	40.0	25.890411	50.0	873333.0	0.64726	Y
5	ICIS 410-528230/16	100.0	57.65669	50.0	856741.0	0.576567	Y
6	IC 410-528230/17	200.0	125.923213	50.0	917583.0	0.629616	Y
7	IC 410-528230/18	600.0	381.89122	50.0	1004140.0	0.636485	Y



Calibration

/ n-Butyl acrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

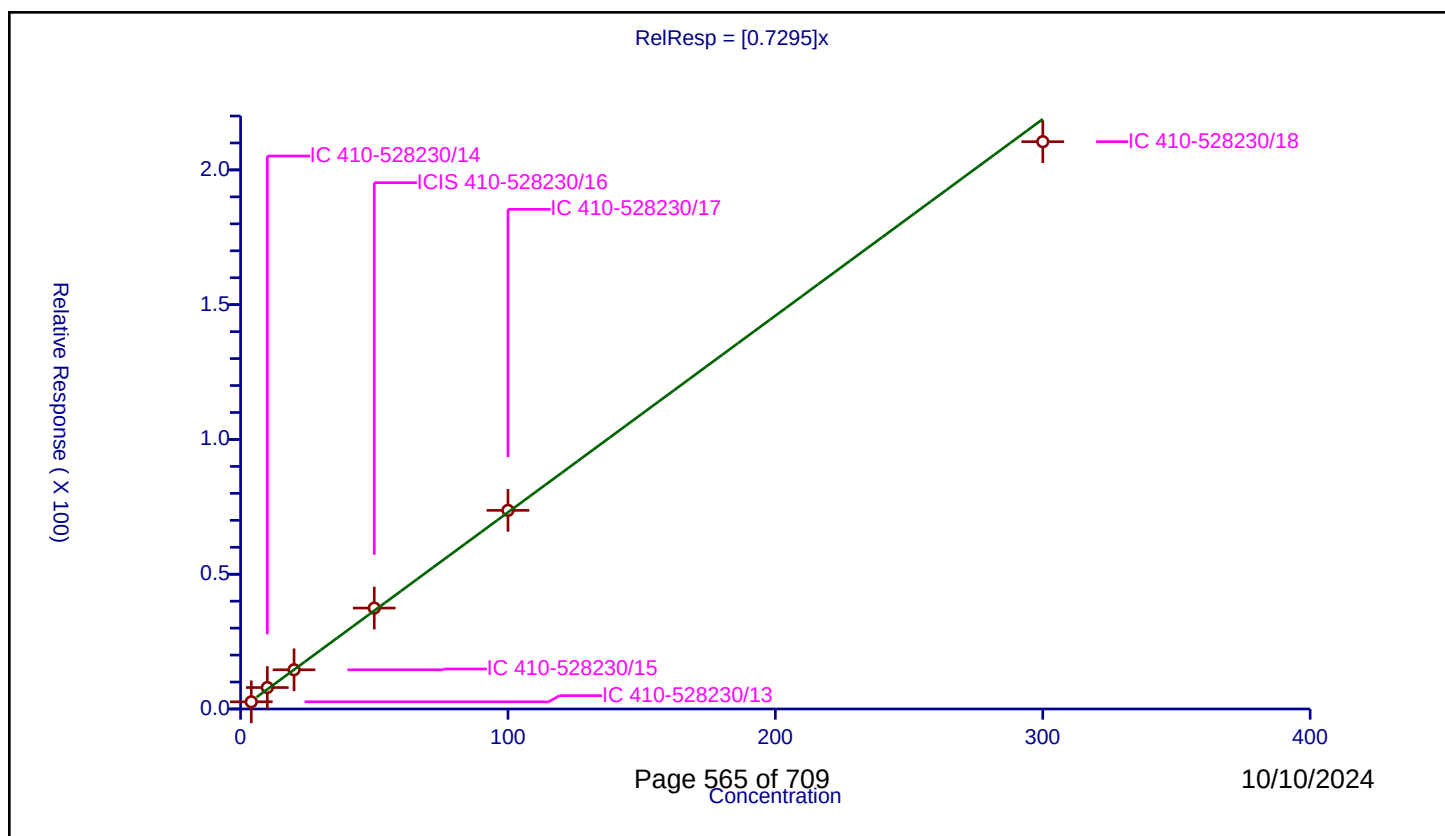
Curve Coefficients

Intercept: 0
 Slope: 0.7295

Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/13	4.000285	2.665676	50.0	895289.0	0.666371	Y
2	IC 410-528230/14	10.000712	7.960924	50.0	888628.0	0.796036	Y
3	IC 410-528230/15	20.001424	14.544109	50.0	873333.0	0.727154	Y
4	ICIS 410-528230/16	50.00356	37.446264	50.0	856741.0	0.748872	Y
5	IC 410-528230/17	100.00712	73.695186	50.0	917583.0	0.736899	Y
6	IC 410-528230/18	300.02136	210.478569	50.0	1004140.0	0.701545	Y



Calibration

/ o-Xylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

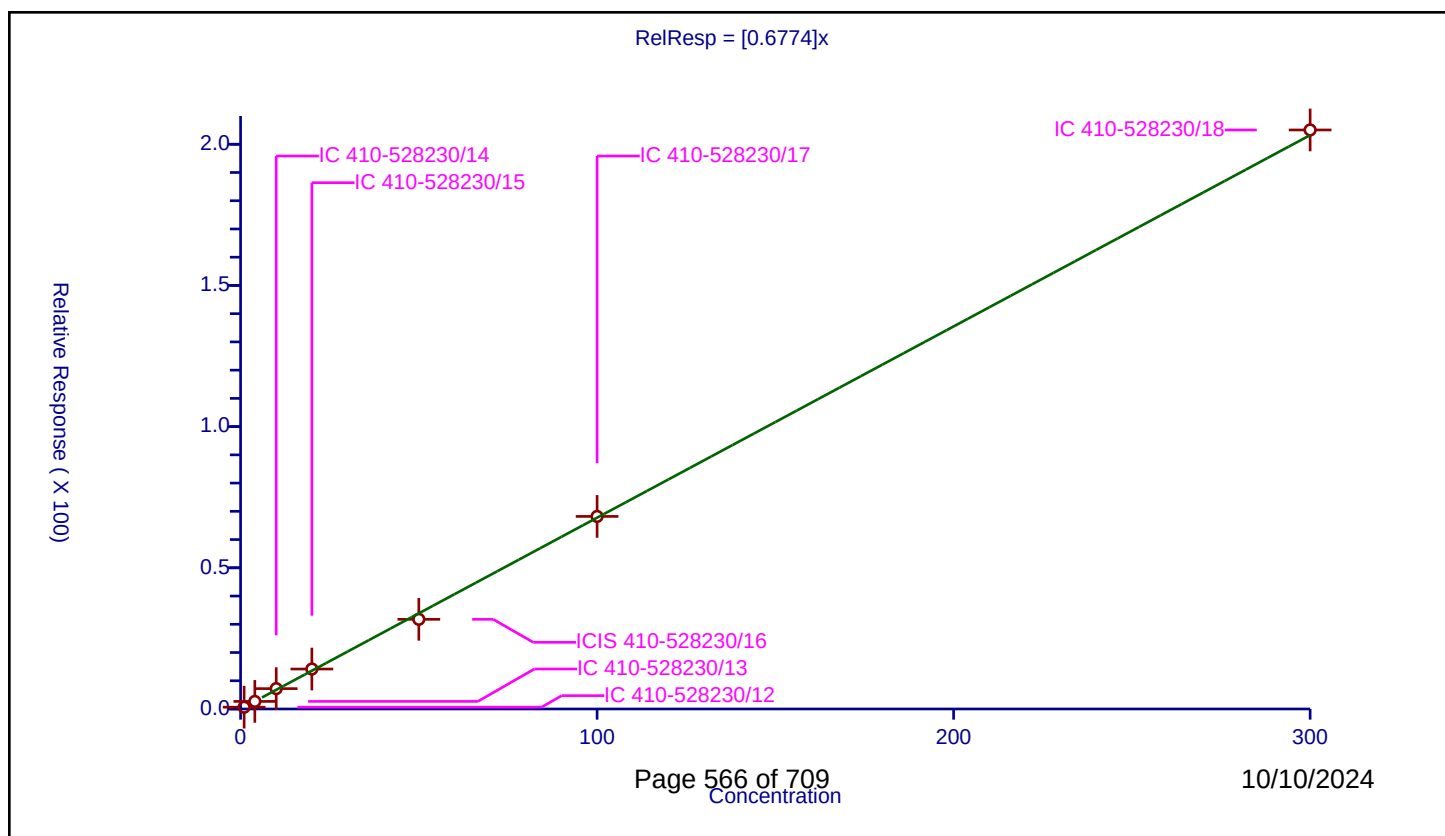
Curve Coefficients

Intercept: 0
Slope: 0.6774

Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.640041	50.0	900098.0	0.640041	Y
2	IC 410-528230/13	4.0	2.689355	50.0	895289.0	0.672339	Y
3	IC 410-528230/14	10.0	7.212467	50.0	888628.0	0.721247	Y
4	IC 410-528230/15	20.0	14.152105	50.0	873333.0	0.707605	Y
5	ICIS 410-528230/16	50.0	31.757206	50.0	856741.0	0.635144	Y
6	IC 410-528230/17	100.0	68.19661	50.0	917583.0	0.681966	Y
7	IC 410-528230/18	300.0	205.064483	50.0	1004140.0	0.683548	Y



Calibration

/ Styrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

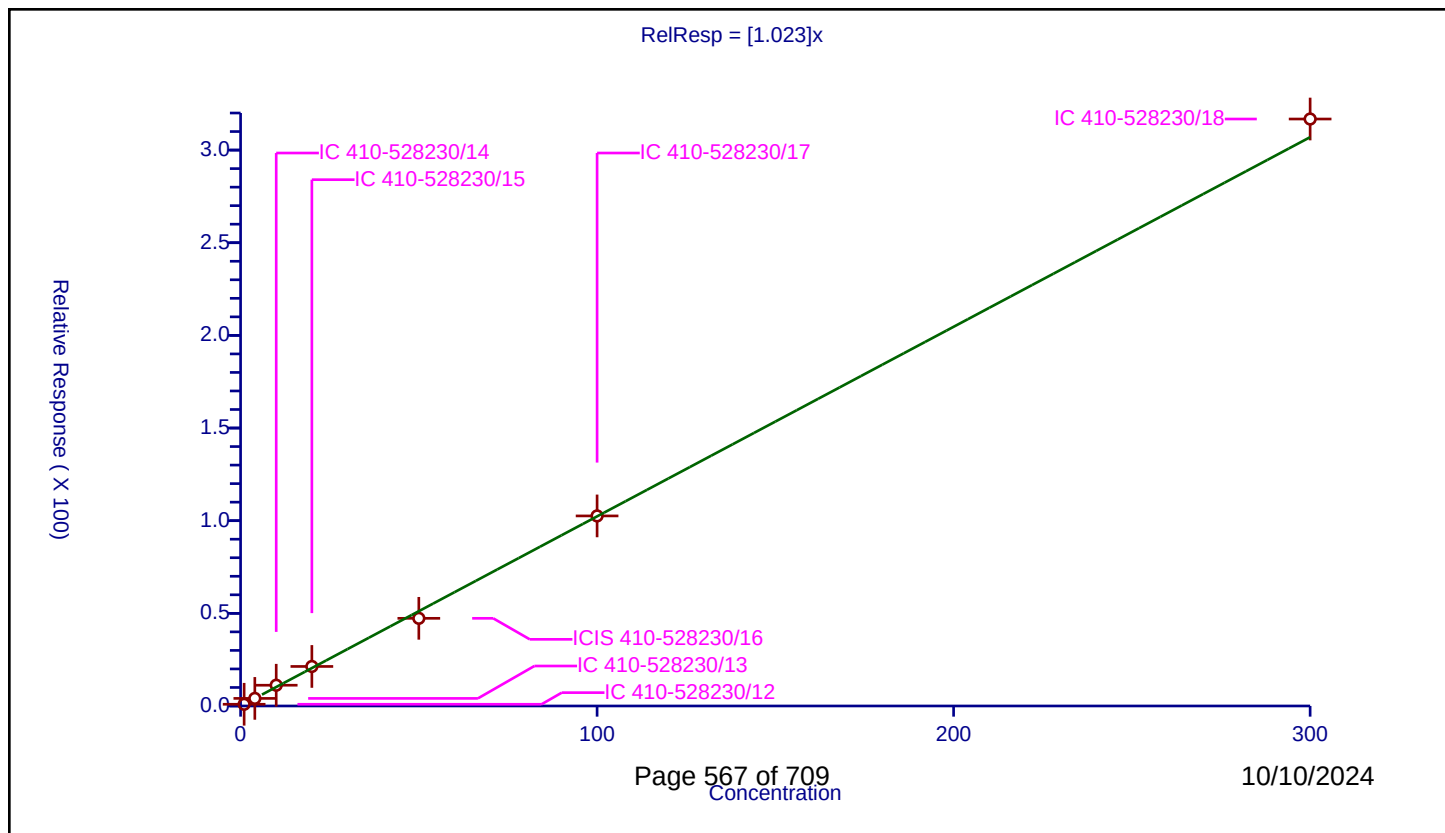
Curve Coefficients

Intercept: 0
Slope: 1.023

Error Coefficients

Relative Standard Deviation: 6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.924844	50.0	900098.0	0.924844	Y
2	IC 410-528230/13	4.0	4.090411	50.0	895289.0	1.022603	Y
3	IC 410-528230/14	10.0	11.206489	50.0	888628.0	1.120649	Y
4	IC 410-528230/15	20.0	21.329436	50.0	873333.0	1.066472	Y
5	ICIS 410-528230/16	50.0	47.305253	50.0	856741.0	0.946105	Y
6	IC 410-528230/17	100.0	102.574917	50.0	917583.0	1.025749	Y
7	IC 410-528230/18	300.0	316.764694	50.0	1004140.0	1.055882	Y



Calibration

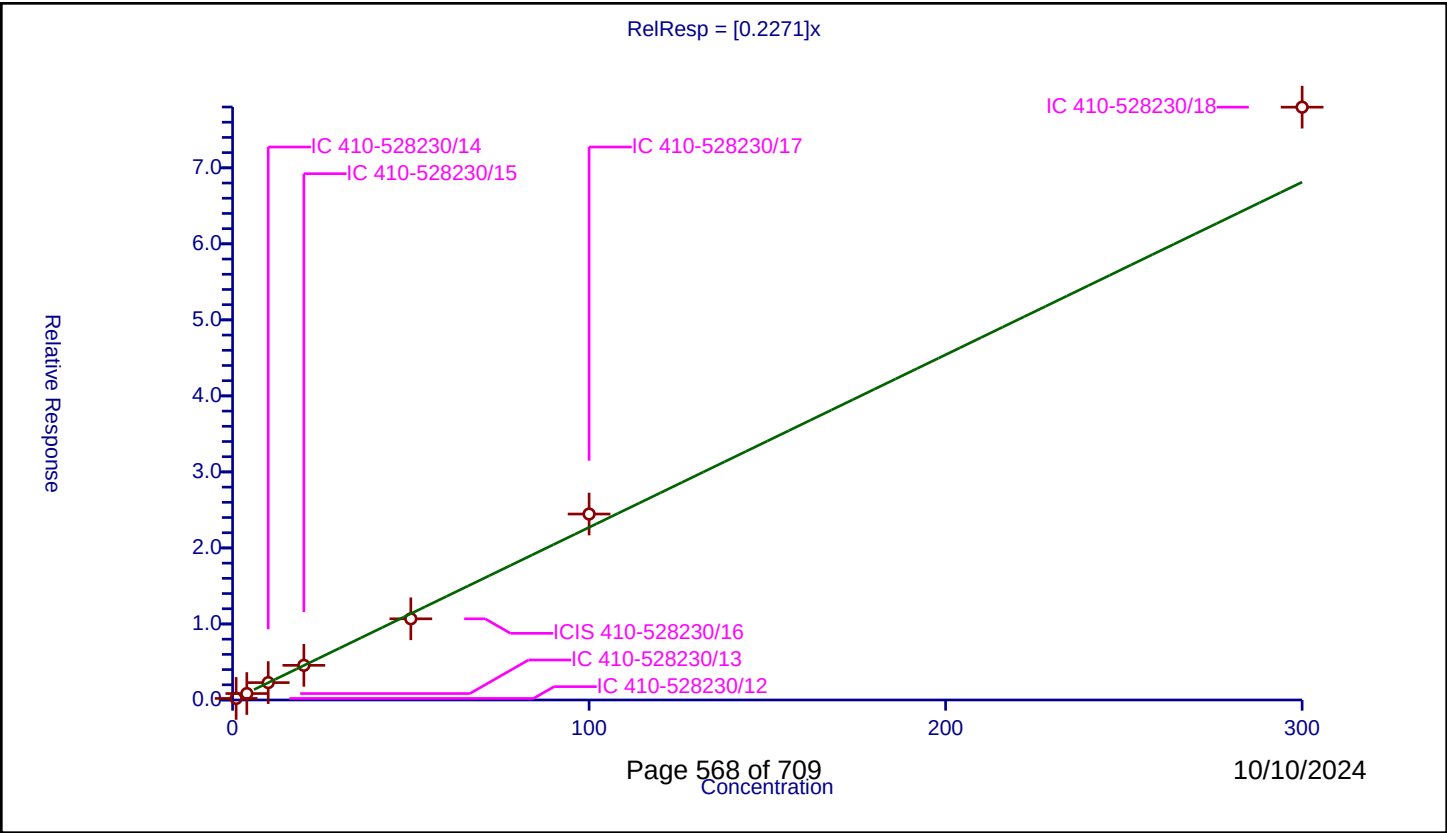
/ Bromoform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2271
Error Coefficients	

Relative Standard Deviation: 8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.203589	50.0	900098.0	0.203589	Y
2	IC 410-528230/13	4.0	0.845649	50.0	895289.0	0.211412	Y
3	IC 410-528230/14	10.0	2.285039	50.0	888628.0	0.228504	Y
4	IC 410-528230/15	20.0	4.556738	50.0	873333.0	0.227837	Y
5	ICIS 410-528230/16	50.0	10.680883	50.0	856741.0	0.213618	Y
6	IC 410-528230/17	100.0	24.462528	50.0	917583.0	0.244625	Y
7	IC 410-528230/18	300.0	77.980013	50.0	1004140.0	0.259933	Y



Calibration

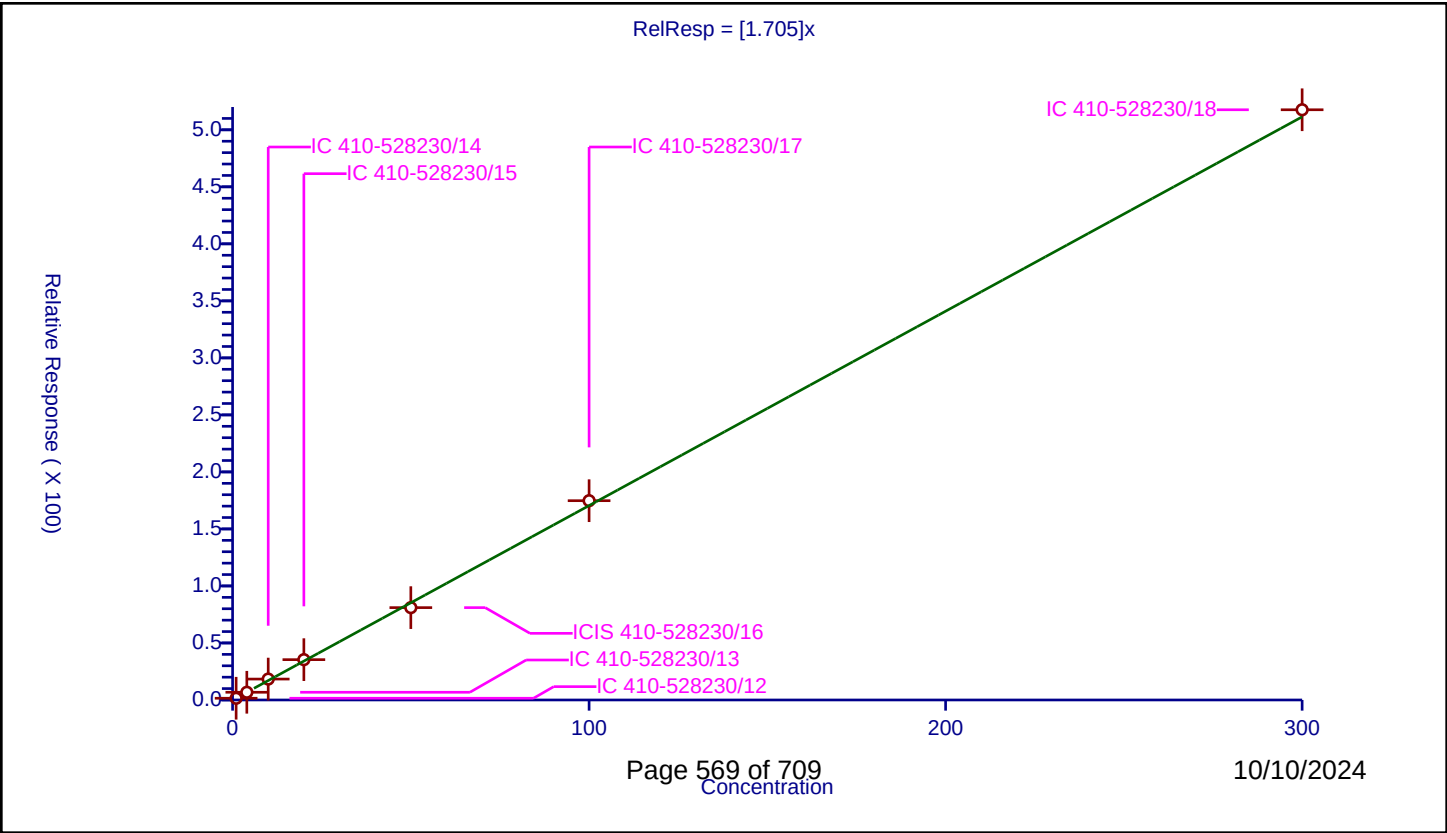
/ Isopropylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.705
Error Coefficients	

Relative Standard Deviation: 5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	1.541943	50.0	900098.0	1.541943	Y
2	IC 410-528230/13	4.0	6.776862	50.0	895289.0	1.694215	Y
3	IC 410-528230/14	10.0	18.353687	50.0	888628.0	1.835369	Y
4	IC 410-528230/15	20.0	35.368639	50.0	873333.0	1.768432	Y
5	ICIS 410-528230/16	50.0	80.993031	50.0	856741.0	1.619861	Y
6	IC 410-528230/17	100.0	174.757924	50.0	917583.0	1.747579	Y
7	IC 410-528230/18	300.0	517.587737	50.0	1004140.0	1.725292	Y



Calibration

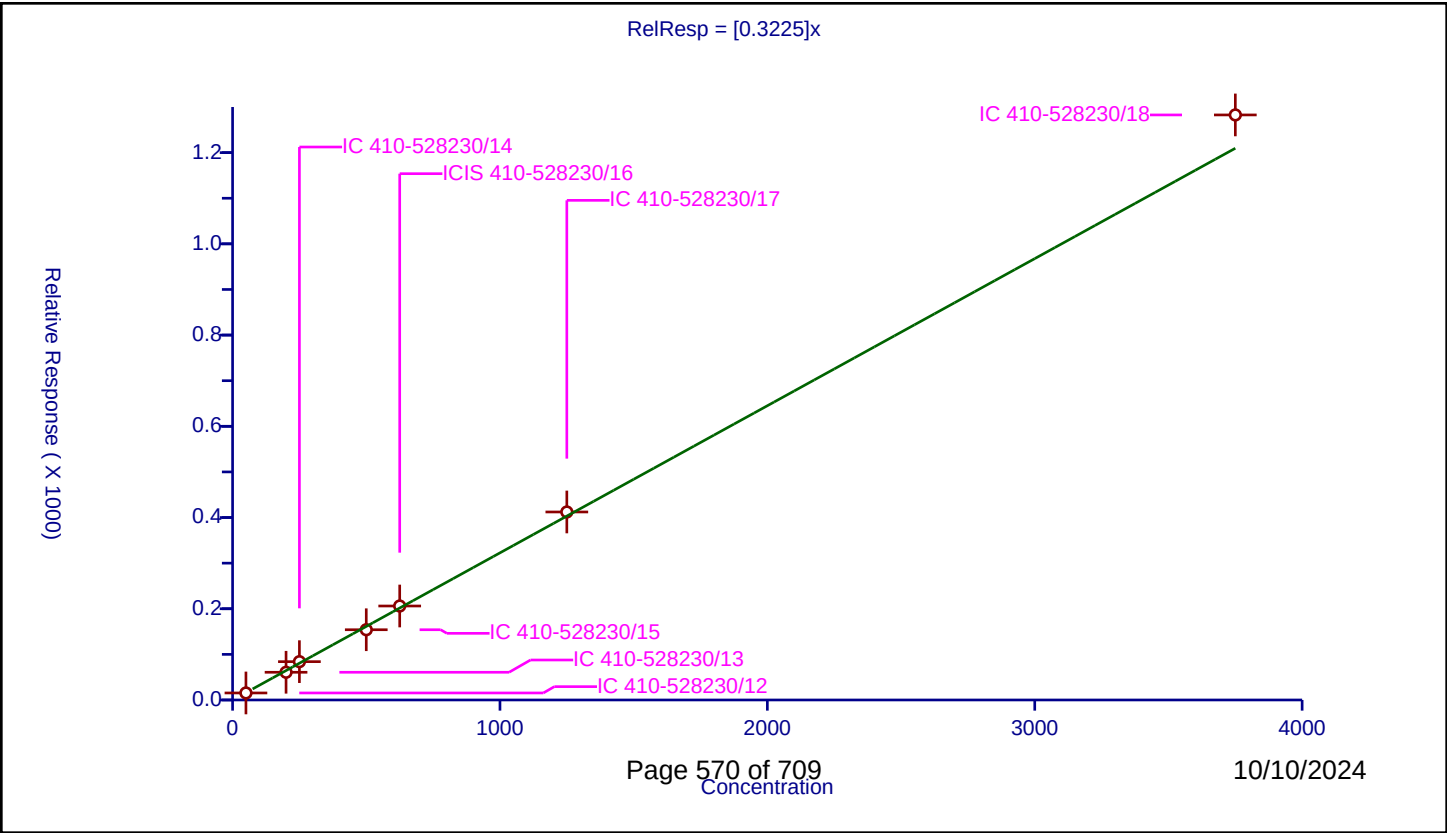
/ Cyclohexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3225
Error Coefficients	

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	50.003184	15.415485	250.0	280335.0	0.30829	Y
2	IC 410-528230/13	200.012736	60.786435	250.0	286610.0	0.303913	Y
3	IC 410-528230/14	250.01592	84.034842	250.0	282130.0	0.336118	Y
4	IC 410-528230/15	500.03184	154.012373	250.0	293866.0	0.308005	Y
5	ICIS 410-528230/16	625.0398	206.06422	250.0	295545.0	0.329682	Y
6	IC 410-528230/17	1250.0796	412.187908	250.0	300753.0	0.329729	Y
7	IC 410-528230/18	3750.2388	1282.639083	250.0	307262.0	0.342015	Y



Calibration

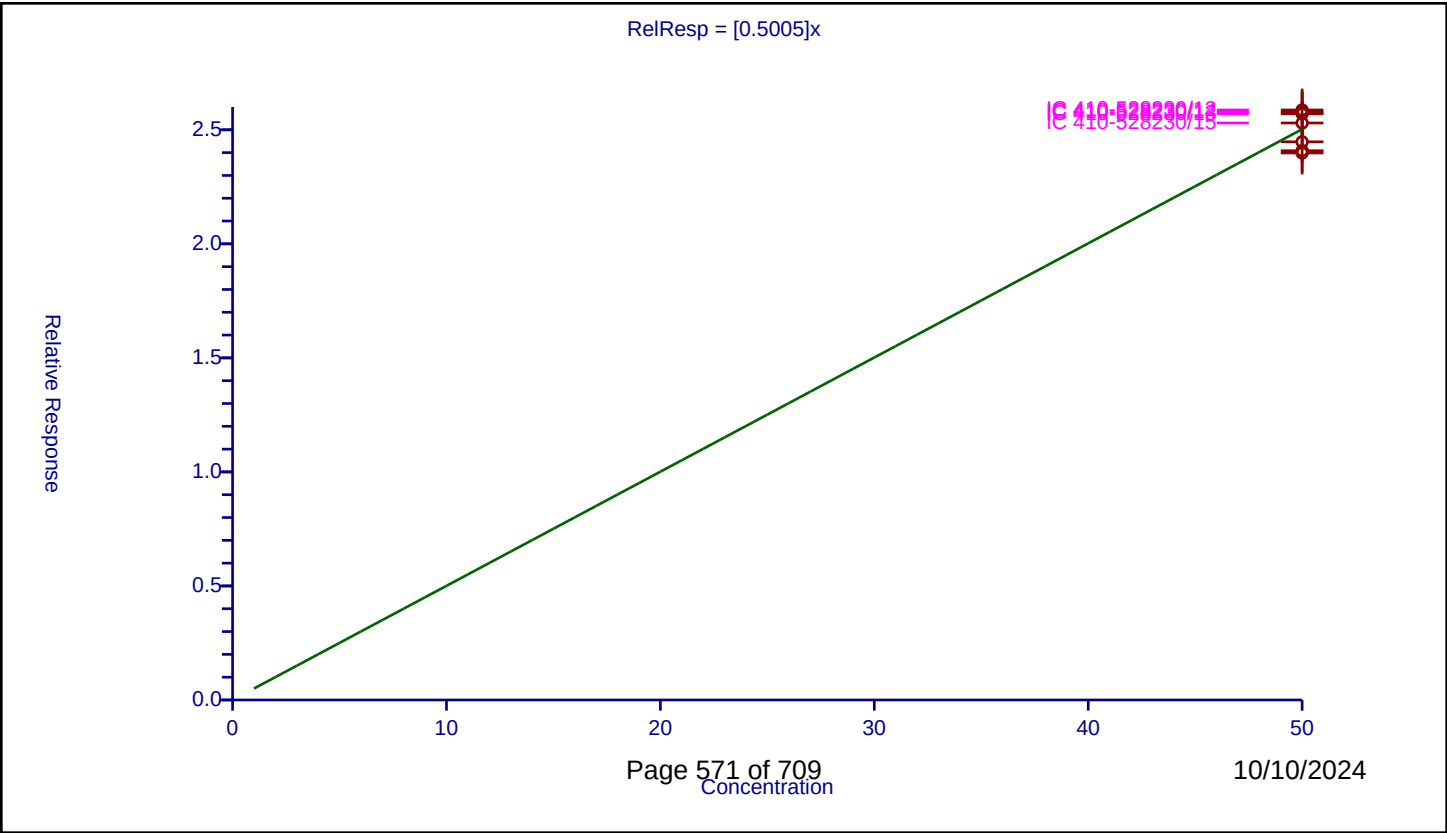
/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5005
Error Coefficients	

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	50.0	25.86985	50.0	900098.0	0.517397	Y
2	IC 410-528230/13	50.0	25.703991	50.0	895289.0	0.51408	Y
3	IC 410-528230/14	50.0	25.768544	50.0	888628.0	0.515371	Y
4	IC 410-528230/15	50.0	25.299055	50.0	873333.0	0.505981	Y
5	ICIS 410-528230/16	50.0	24.475717	50.0	856741.0	0.489514	Y
6	IC 410-528230/17	50.0	23.984588	50.0	917583.0	0.479692	Y
7	IC 410-528230/18	50.0	24.083096	50.0	1004140.0	0.481662	Y



Calibration

/ 1,1,2,2-Tetrachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

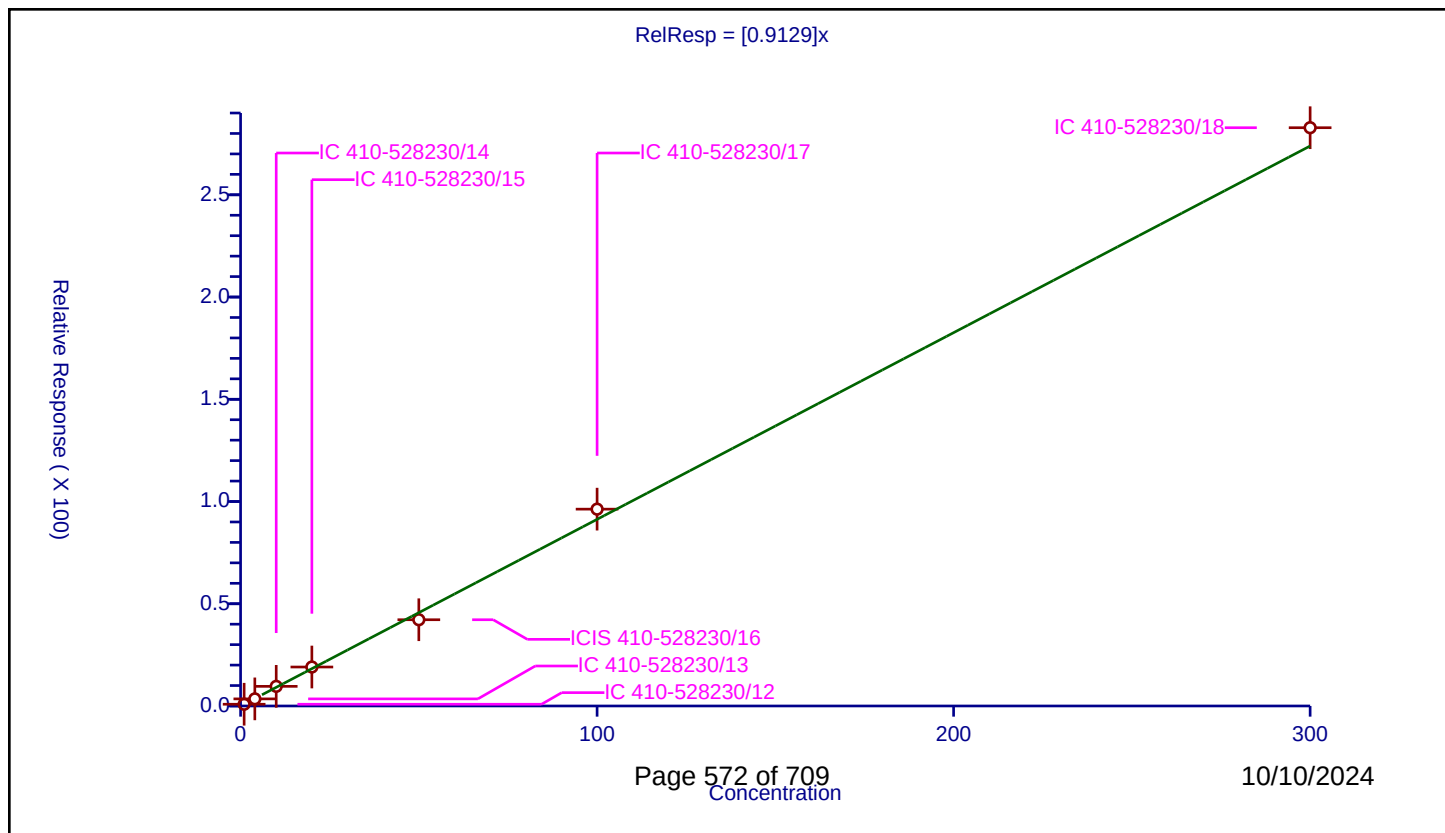
Curve Coefficients

Intercept: 0
Slope: 0.9129

Error Coefficients

Relative Standard Deviation: 5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.860545	50.0	553080.0	0.860545	Y
2	IC 410-528230/13	4.0	3.469449	50.0	544366.0	0.867362	Y
3	IC 410-528230/14	10.0	9.601578	50.0	531647.0	0.960158	Y
4	IC 410-528230/15	20.0	19.061858	50.0	515519.0	0.953093	Y
5	ICIS 410-528230/16	50.0	42.187673	50.0	487038.0	0.843753	Y
6	IC 410-528230/17	100.0	96.260836	50.0	503428.0	0.962608	Y
7	IC 410-528230/18	300.0	282.816035	50.0	558736.0	0.94272	Y



Calibration

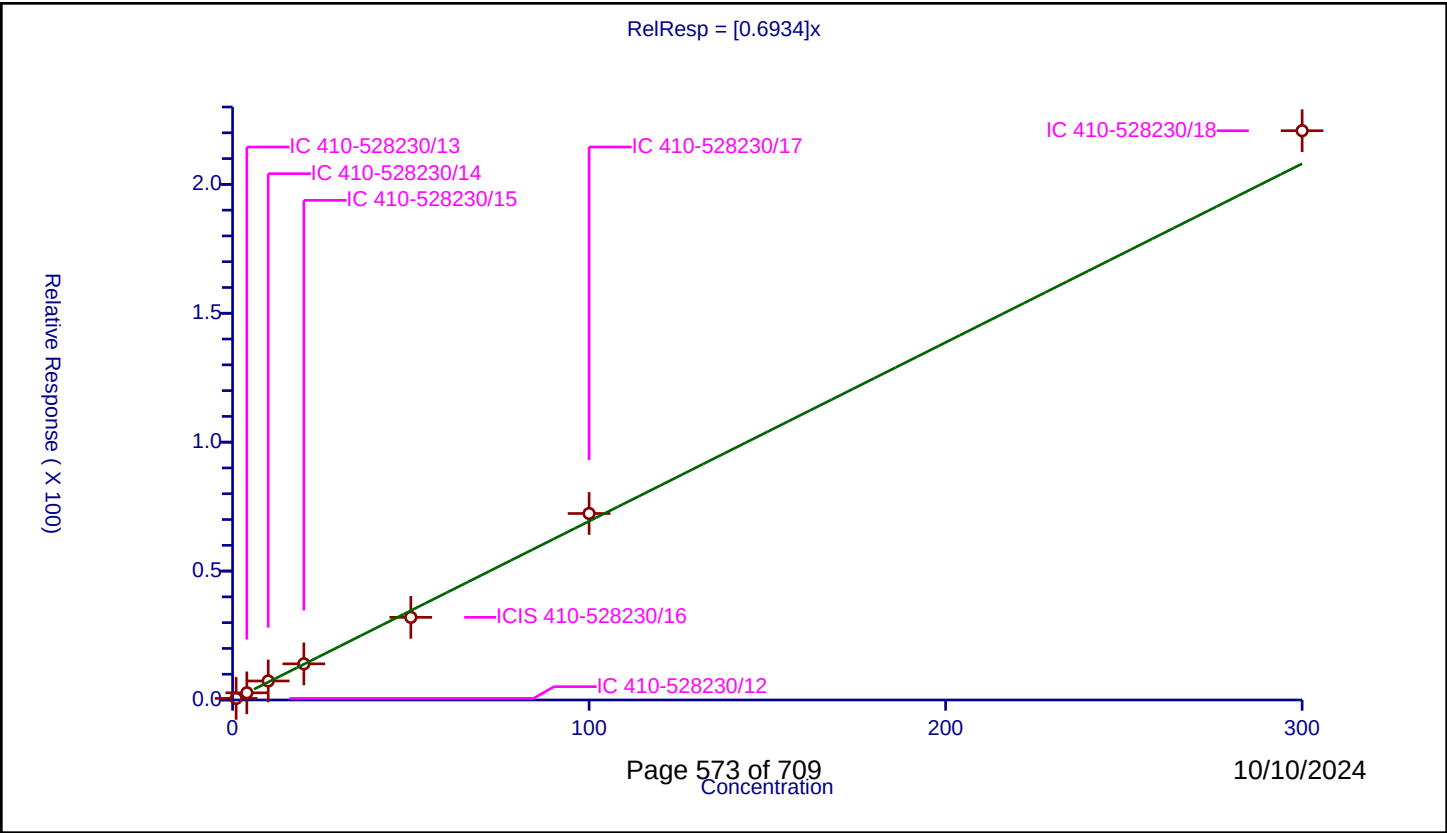
/ Bromobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6934
Error Coefficients	

Relative Standard Deviation: 6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.619531	50.0	553080.0	0.619531	Y
2	IC 410-528230/13	4.0	2.780115	50.0	544366.0	0.695029	Y
3	IC 410-528230/14	10.0	7.379333	50.0	531647.0	0.737933	Y
4	IC 410-528230/15	20.0	14.016069	50.0	515519.0	0.700803	Y
5	ICIS 410-528230/16	50.0	32.063515	50.0	487038.0	0.64127	Y
6	IC 410-528230/17	100.0	72.331495	50.0	503428.0	0.723315	Y
7	IC 410-528230/18	300.0	220.805085	50.0	558736.0	0.736017	Y



Calibration

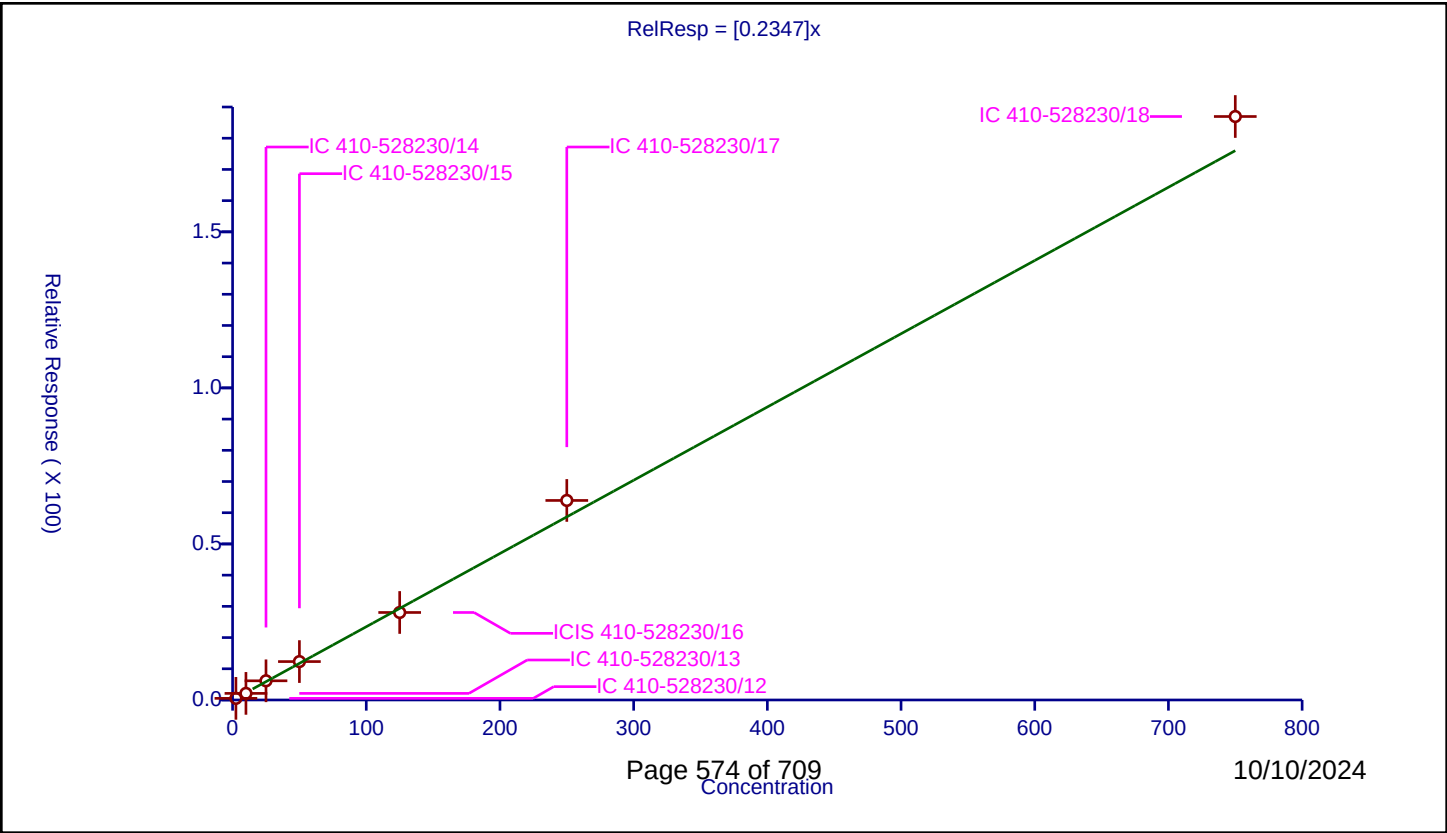
/ trans-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2347
Error Coefficients	

Relative Standard Deviation: 8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	2.5	0.524608	50.0	553080.0	0.209843	Y
2	IC 410-528230/13	10.0	2.117693	50.0	544366.0	0.211769	Y
3	IC 410-528230/14	25.0	6.144679	50.0	531647.0	0.245787	Y
4	IC 410-528230/15	50.0	12.304687	50.0	515519.0	0.246094	Y
5	ICIS 410-528230/16	125.0	28.037853	50.0	487038.0	0.224303	Y
6	IC 410-528230/17	250.0	63.936849	50.0	503428.0	0.255747	Y
7	IC 410-528230/18	750.0	186.961284	50.0	558736.0	0.249282	Y



Calibration

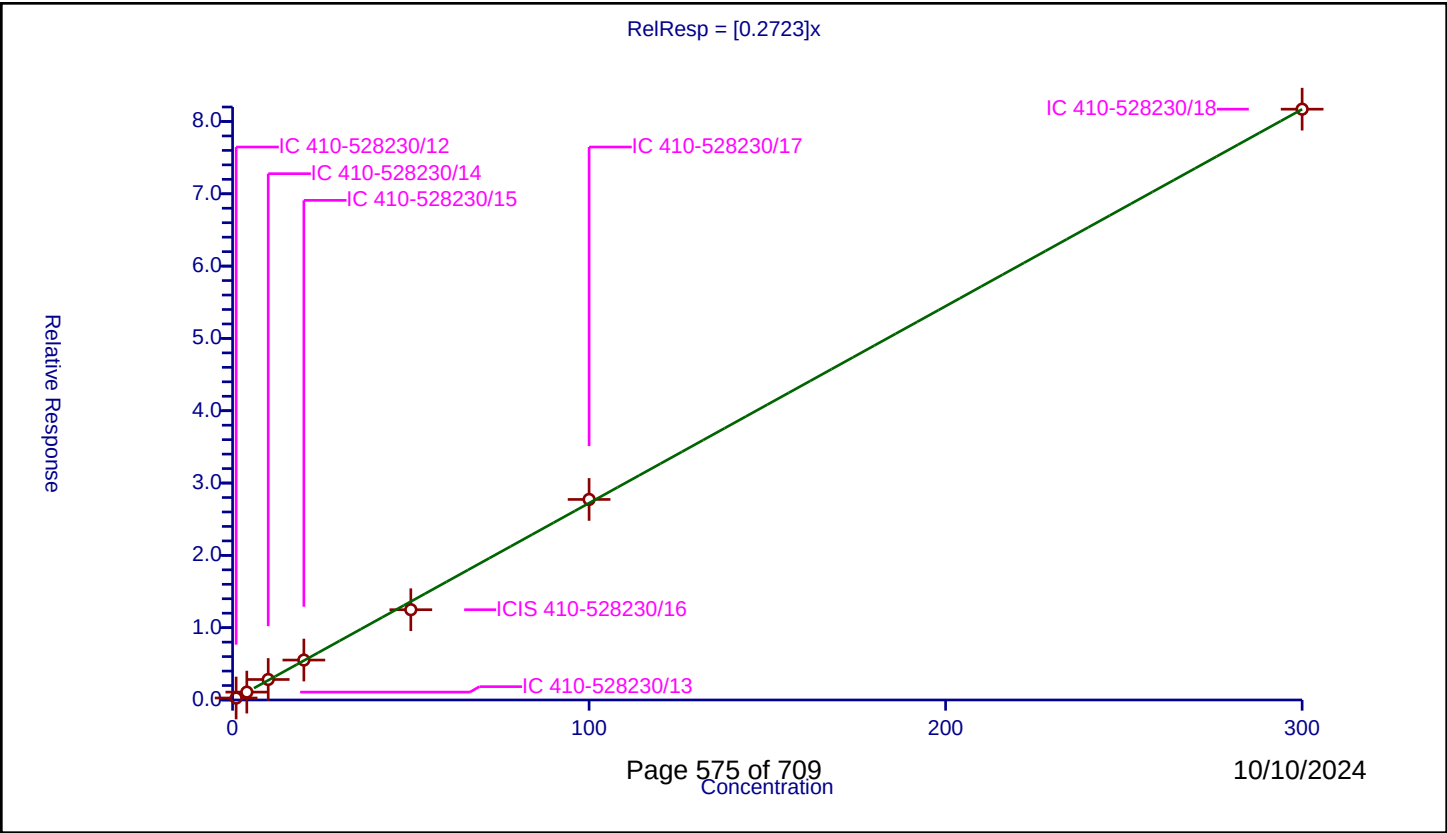
/ 1,2,3-Trichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2723
Error Coefficients	

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.275005	50.0	553080.0	0.275005	Y
2	IC 410-528230/13	4.0	1.088698	50.0	544366.0	0.272174	Y
3	IC 410-528230/14	10.0	2.8344	50.0	531647.0	0.28344	Y
4	IC 410-528230/15	20.0	5.522687	50.0	515519.0	0.276134	Y
5	ICIS 410-528230/16	50.0	12.485371	50.0	487038.0	0.249707	Y
6	IC 410-528230/17	100.0	27.734055	50.0	503428.0	0.277341	Y
7	IC 410-528230/18	300.0	81.701018	50.0	558736.0	0.272337	Y



Calibration

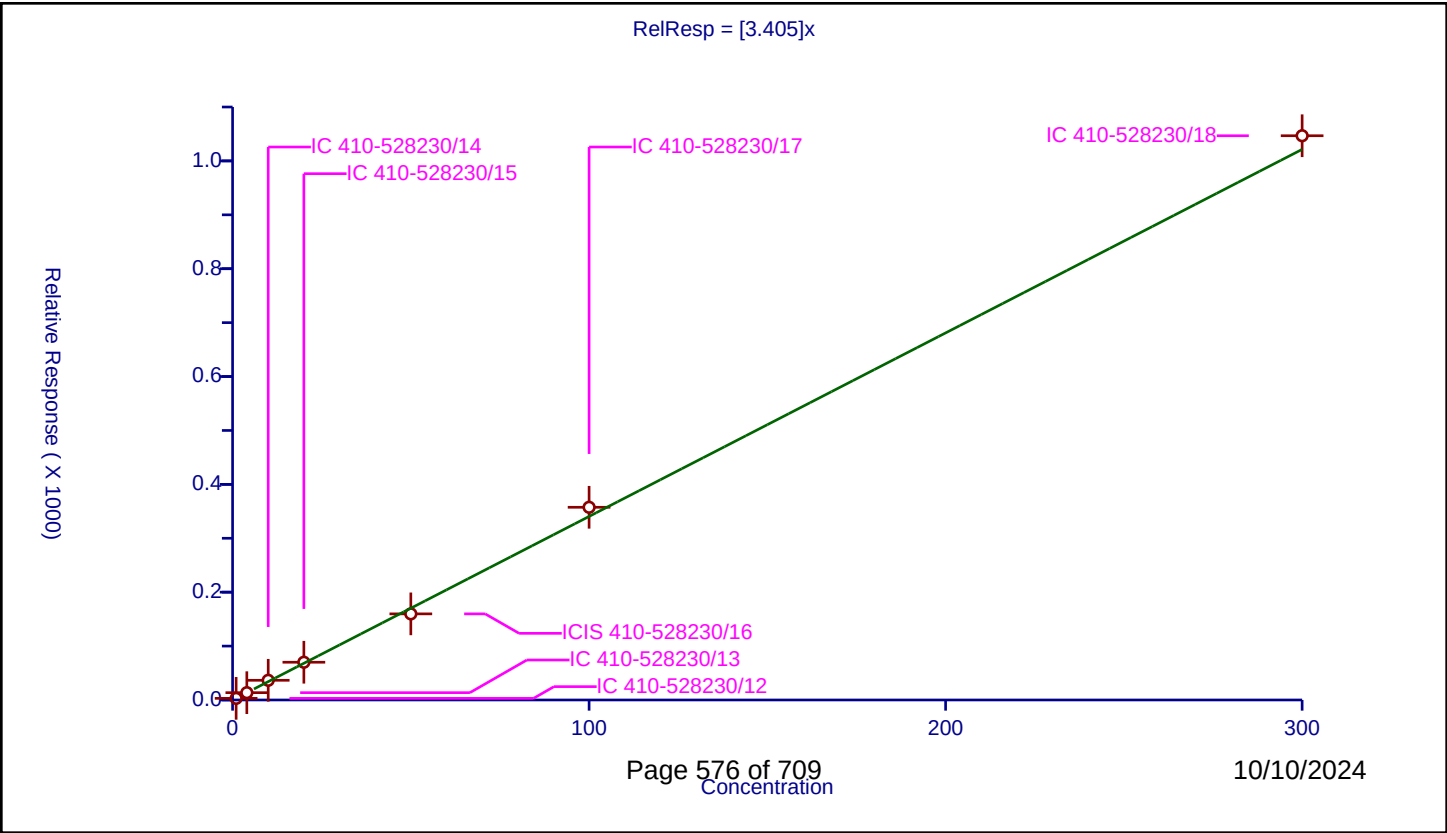
/ N-Propylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.405
Error Coefficients	

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	3.023071	50.0	553080.0	3.023071	Y
2	IC 410-528230/13	4.0	13.596092	50.0	544366.0	3.399023	Y
3	IC 410-528230/14	10.0	36.517558	50.0	531647.0	3.651756	Y
4	IC 410-528230/15	20.0	69.998681	50.0	515519.0	3.499934	Y
5	ICIS 410-528230/16	50.0	159.760327	50.0	487038.0	3.195207	Y
6	IC 410-528230/17	100.0	357.473661	50.0	503428.0	3.574737	Y
7	IC 410-528230/18	300.0	1046.699246	50.0	558736.0	3.488997	Y



Calibration

/ 2-Chlorotoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

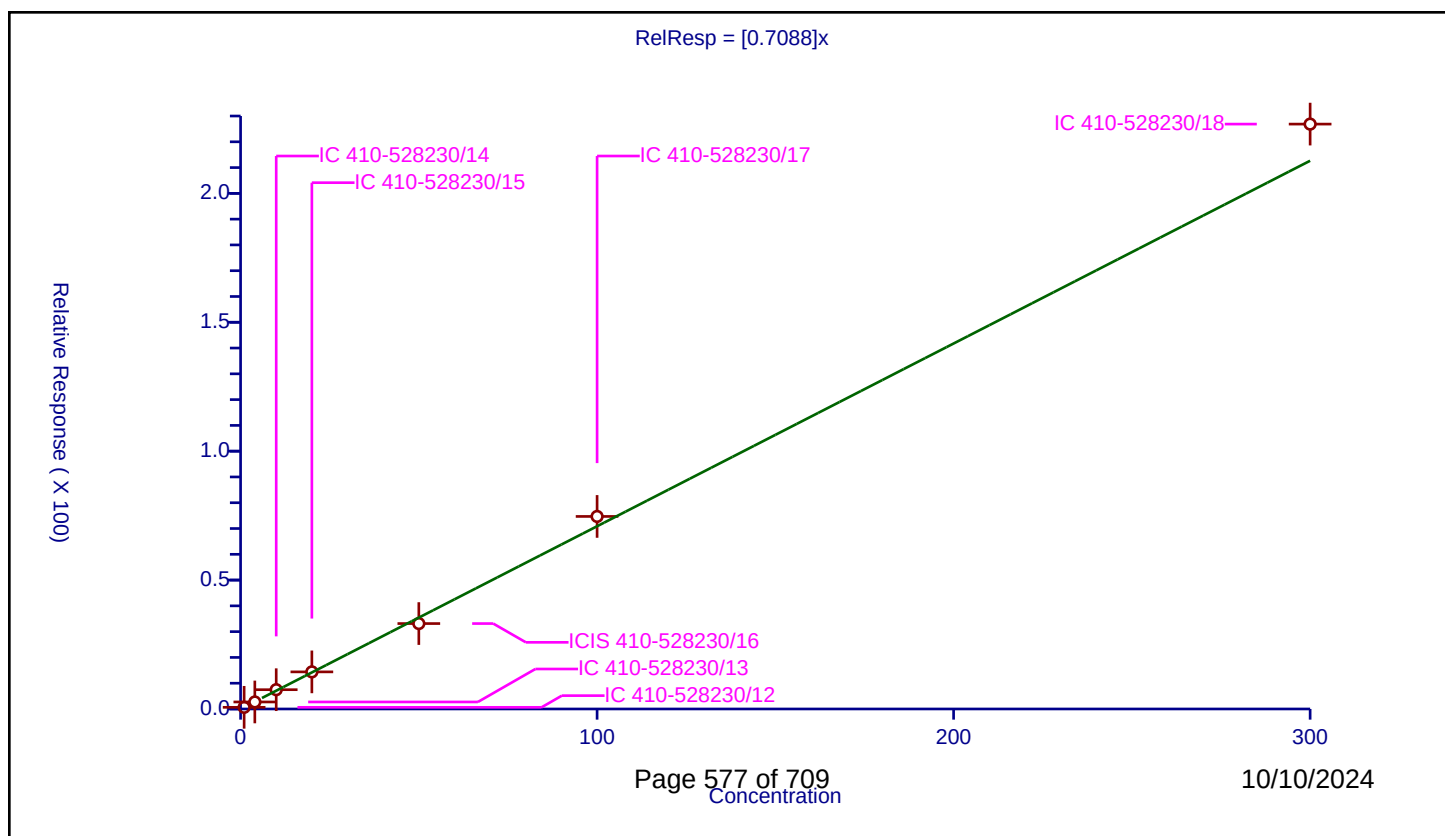
Curve Coefficients

Intercept: 0
 Slope: 0.7088

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.647556	50.0	553080.0	0.647556	Y
2	IC 410-528230/13	4.0	2.721055	50.0	544366.0	0.680264	Y
3	IC 410-528230/14	10.0	7.486076	50.0	531647.0	0.748608	Y
4	IC 410-528230/15	20.0	14.390061	50.0	515519.0	0.719503	Y
5	ICIS 410-528230/16	50.0	33.134068	50.0	487038.0	0.662681	Y
6	IC 410-528230/17	100.0	74.680689	50.0	503428.0	0.746807	Y
7	IC 410-528230/18	300.0	226.863134	50.0	558736.0	0.75621	Y



Calibration

/ 1,3,5-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

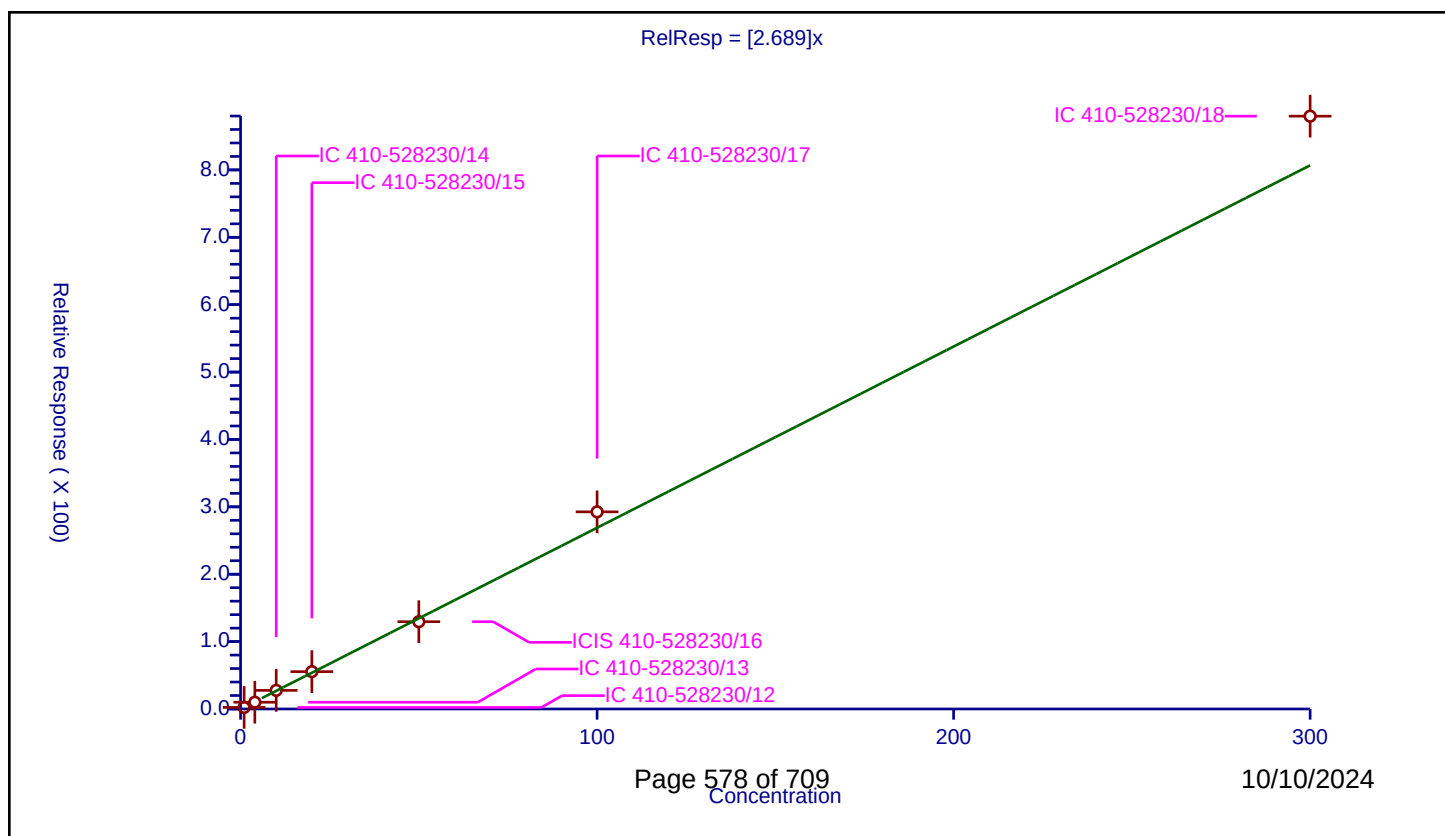
Curve Coefficients

Intercept: 0
Slope: 2.689

Error Coefficients

Relative Standard Deviation: 8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	2.330133	50.0	553080.0	2.330133	Y
2	IC 410-528230/13	4.0	10.047009	50.0	544366.0	2.511752	Y
3	IC 410-528230/14	10.0	27.621147	50.0	531647.0	2.762115	Y
4	IC 410-528230/15	20.0	55.434814	50.0	515519.0	2.771741	Y
5	ICIS 410-528230/16	50.0	129.536607	50.0	487038.0	2.590732	Y
6	IC 410-528230/17	100.0	292.566166	50.0	503428.0	2.925662	Y
7	IC 410-528230/18	300.0	879.769515	50.0	558736.0	2.932565	Y



Calibration

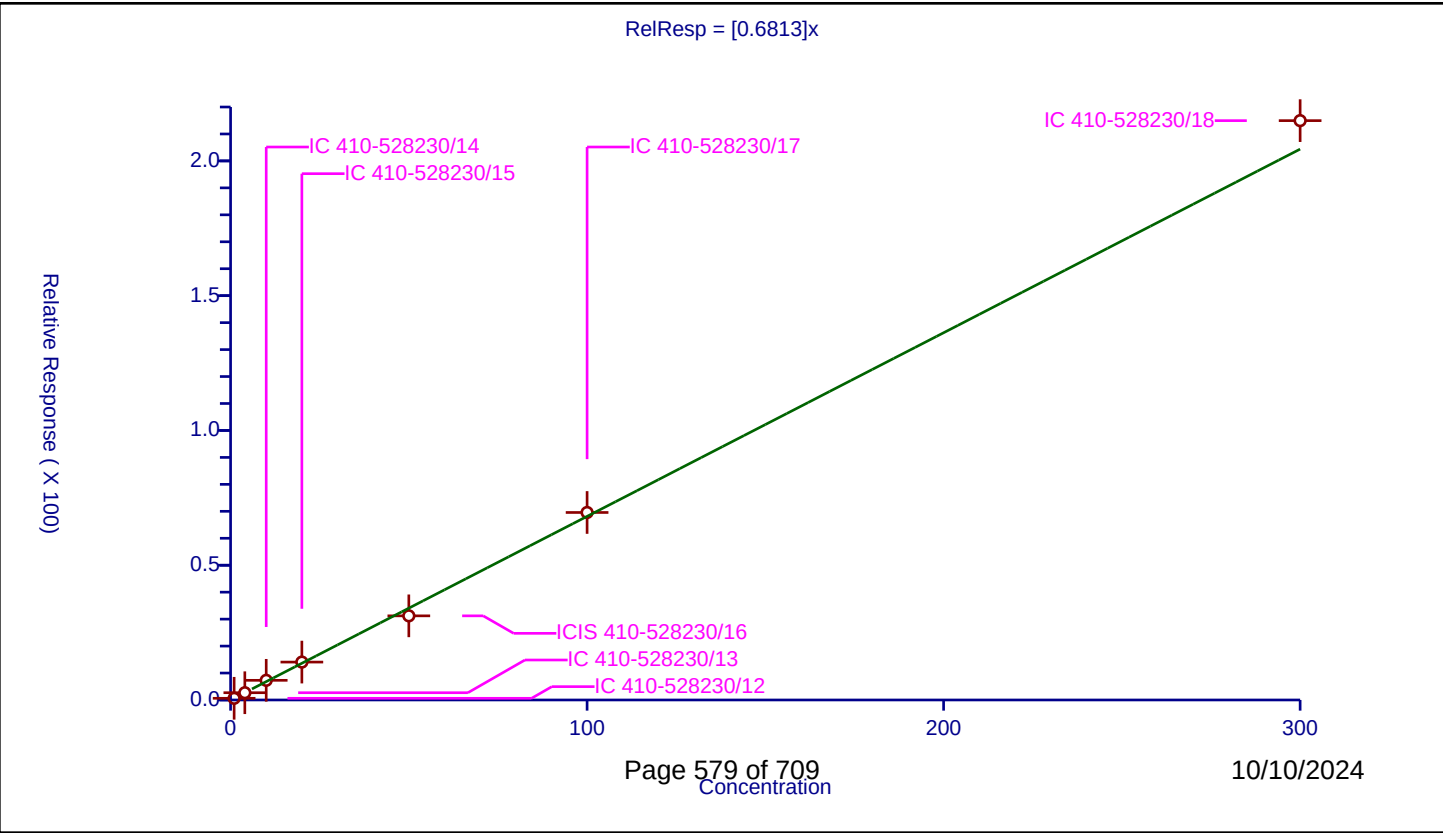
/ 4-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6813
Error Coefficients	

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.62604	50.0	553080.0	0.62604	Y
2	IC 410-528230/13	4.0	2.694511	50.0	544366.0	0.673628	Y
3	IC 410-528230/14	10.0	7.295348	50.0	531647.0	0.729535	Y
4	IC 410-528230/15	20.0	14.059715	50.0	515519.0	0.702986	Y
5	ICIS 410-528230/16	50.0	31.220972	50.0	487038.0	0.624419	Y
6	IC 410-528230/17	100.0	69.568339	50.0	503428.0	0.695683	Y
7	IC 410-528230/18	300.0	214.946862	50.0	558736.0	0.71649	Y



Calibration

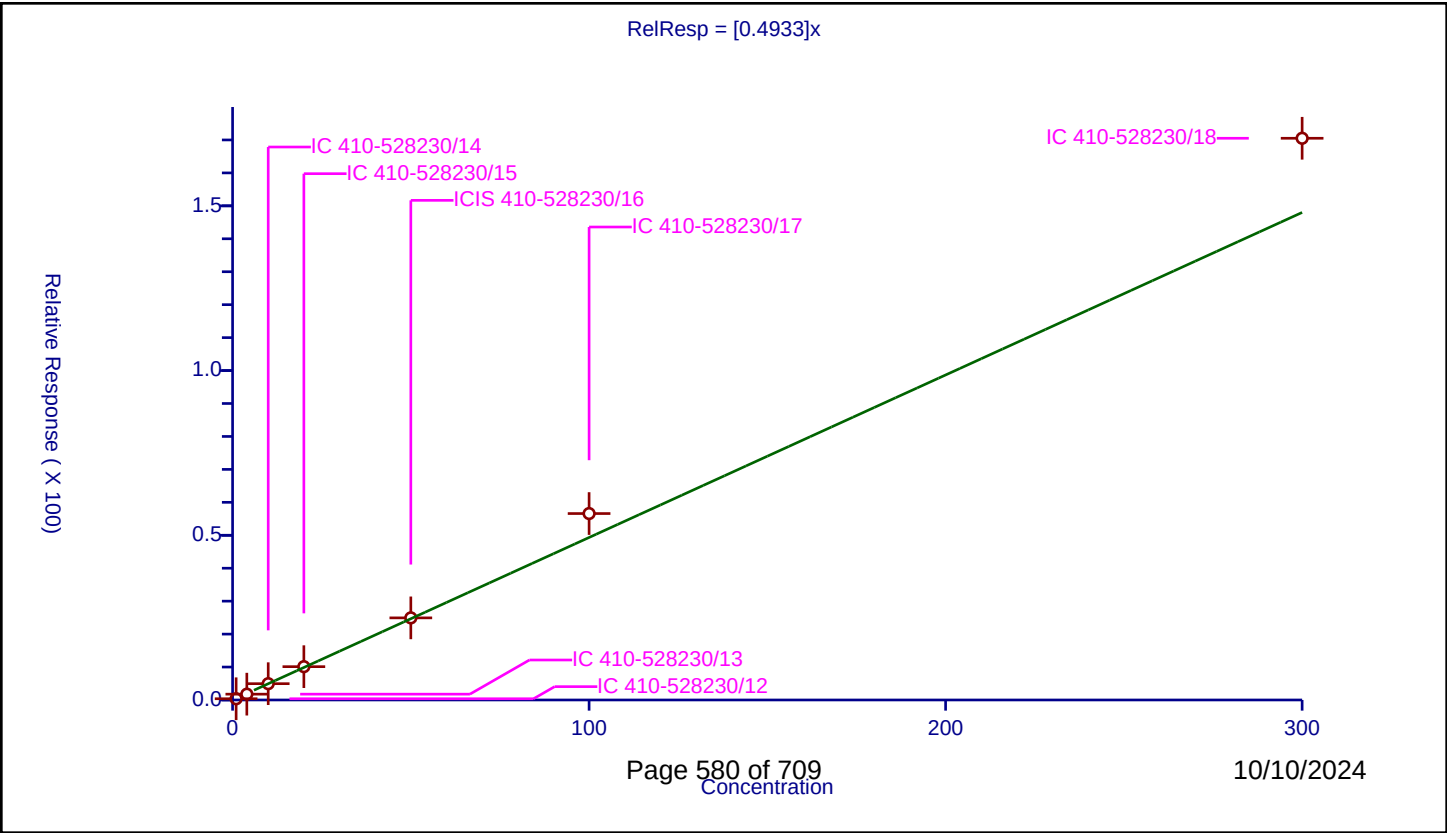
/ tert-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4933
Error Coefficients	

Relative Standard Deviation: 13.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.376618	50.0	553080.0	0.376618	Y
2	IC 410-528230/13	4.0	1.771051	50.0	544366.0	0.442763	Y
3	IC 410-528230/14	10.0	4.952346	50.0	531647.0	0.495235	Y
4	IC 410-528230/15	20.0	10.114855	50.0	515519.0	0.505743	Y
5	ICIS 410-528230/16	50.0	24.924031	50.0	487038.0	0.498481	Y
6	IC 410-528230/17	100.0	56.591211	50.0	503428.0	0.565912	Y
7	IC 410-528230/18	300.0	170.51425	50.0	558736.0	0.568381	Y



Calibration

/ 1,2,4-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

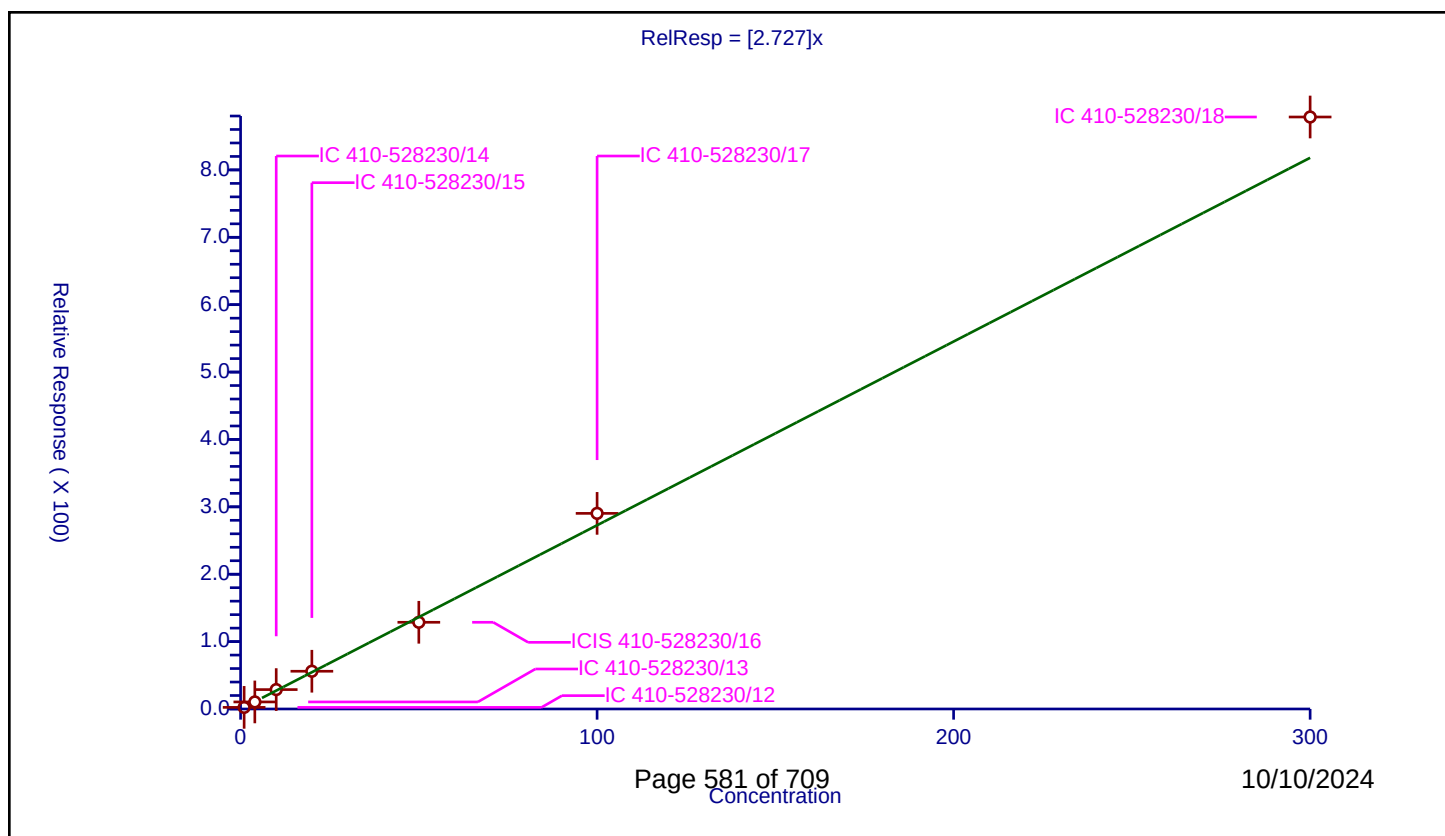
Curve Coefficients

Intercept: 0
 Slope: 2.727

Error Coefficients

Relative Standard Deviation: 7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	2.387177	50.0	553080.0	2.387177	Y
2	IC 410-528230/13	4.0	10.459323	50.0	544366.0	2.614831	Y
3	IC 410-528230/14	10.0	28.772381	50.0	531647.0	2.877238	Y
4	IC 410-528230/15	20.0	56.032755	50.0	515519.0	2.801638	Y
5	ICIS 410-528230/16	50.0	128.695194	50.0	487038.0	2.573904	Y
6	IC 410-528230/17	100.0	290.307353	50.0	503428.0	2.903074	Y
7	IC 410-528230/18	300.0	878.529126	50.0	558736.0	2.92843	Y



Calibration

/ sec-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

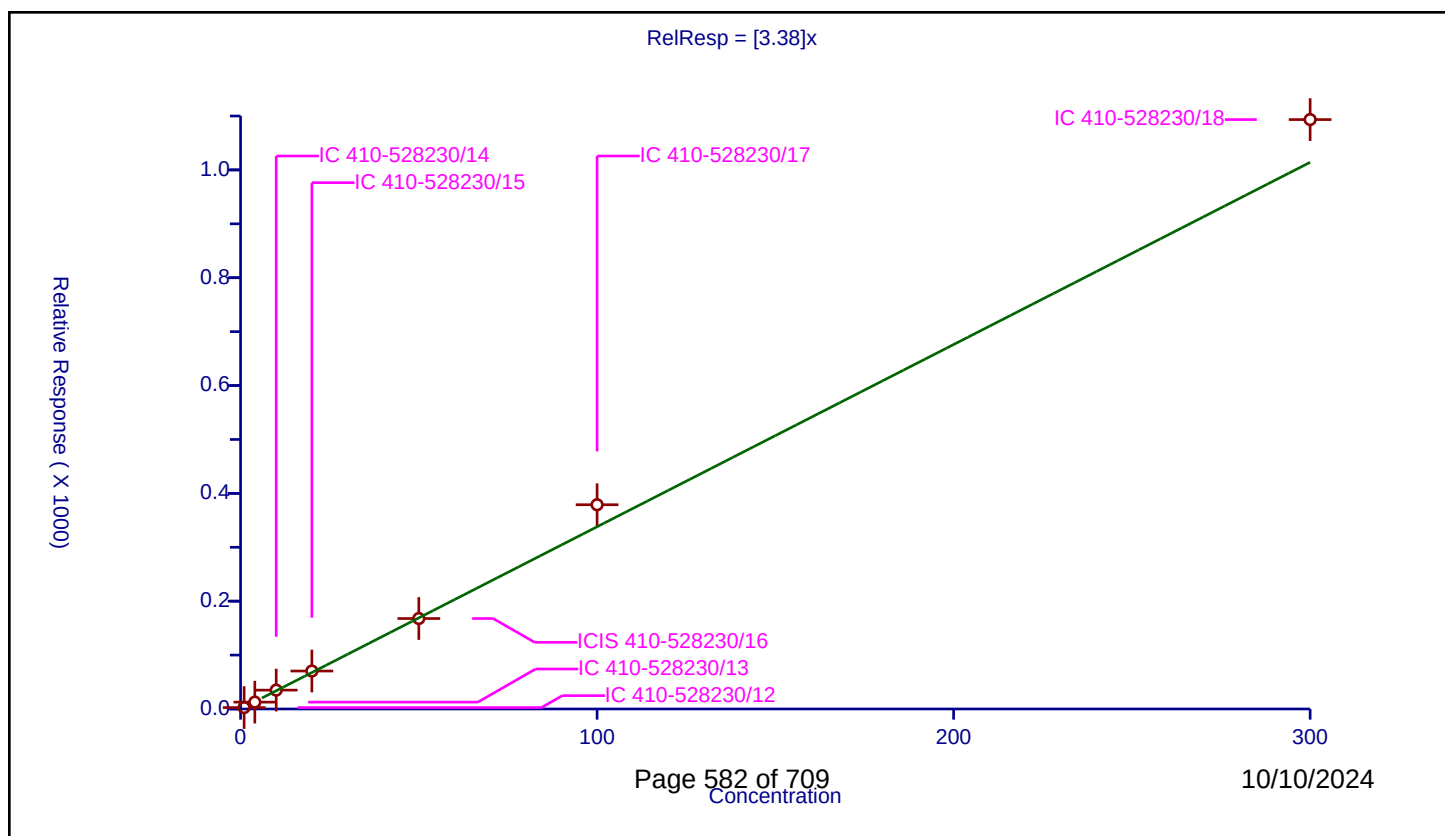
Curve Coefficients

Intercept: 0
Slope: 3.38

Error Coefficients

Relative Standard Deviation: 10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	2.667697	50.0	553080.0	2.667697	Y
2	IC 410-528230/13	4.0	12.751531	50.0	544366.0	3.187883	Y
3	IC 410-528230/14	10.0	34.982517	50.0	531647.0	3.498252	Y
4	IC 410-528230/15	20.0	70.393041	50.0	515519.0	3.519652	Y
5	ICIS 410-528230/16	50.0	167.802102	50.0	487038.0	3.356042	Y
6	IC 410-528230/17	100.0	378.899763	50.0	503428.0	3.788998	Y
7	IC 410-528230/18	300.0	1093.375494	50.0	558736.0	3.644585	Y



Calibration

/ 1,3-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

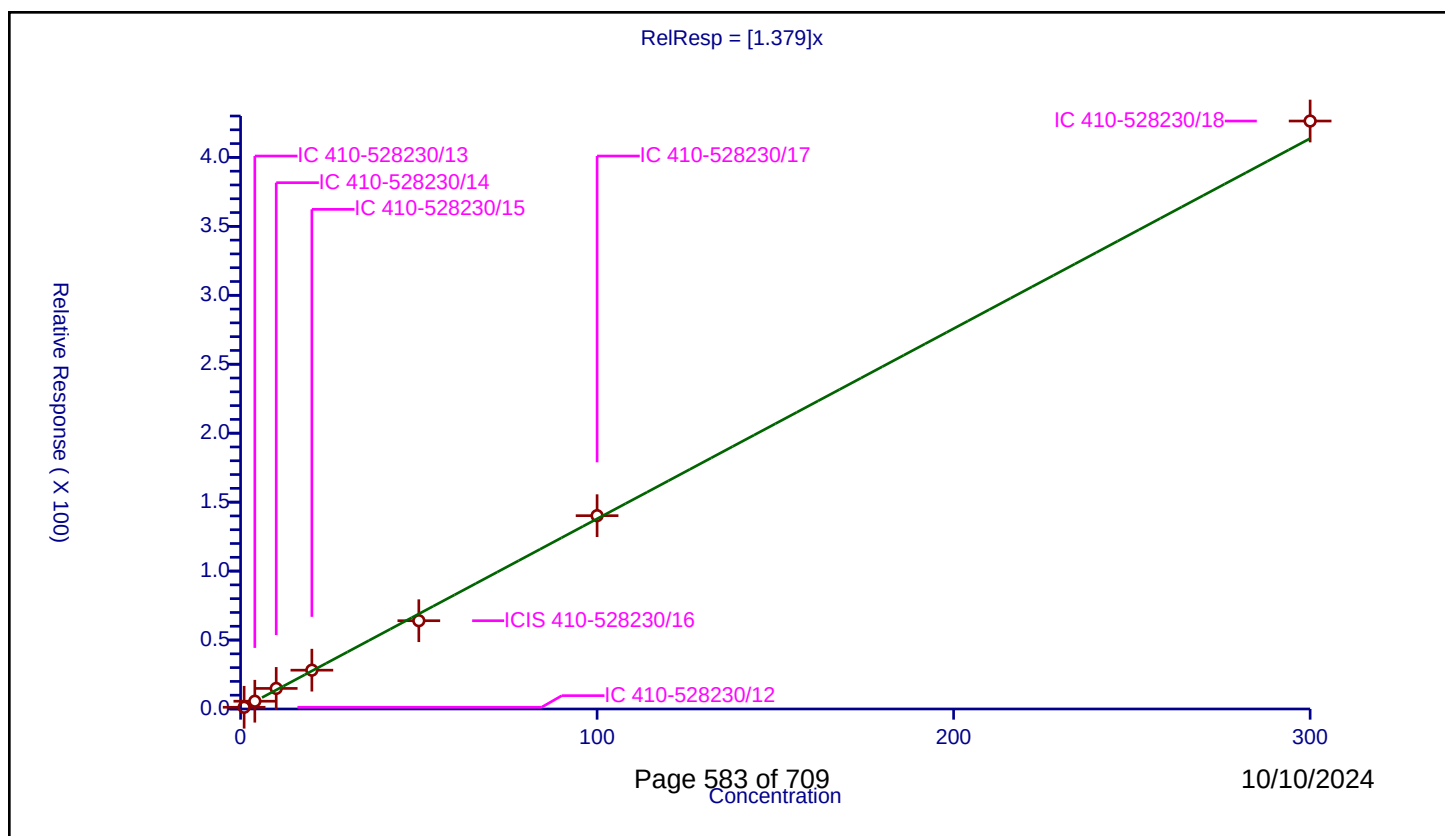
Curve Coefficients

Intercept: 0
Slope: 1.379

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	1.240146	50.0	553080.0	1.240146	Y
2	IC 410-528230/13	4.0	5.645007	50.0	544366.0	1.411252	Y
3	IC 410-528230/14	10.0	14.912903	50.0	531647.0	1.49129	Y
4	IC 410-528230/15	20.0	28.145616	50.0	515519.0	1.407281	Y
5	ICIS 410-528230/16	50.0	64.021801	50.0	487038.0	1.280436	Y
6	IC 410-528230/17	100.0	140.181416	50.0	503428.0	1.401814	Y
7	IC 410-528230/18	300.0	426.370862	50.0	558736.0	1.421236	Y



Calibration

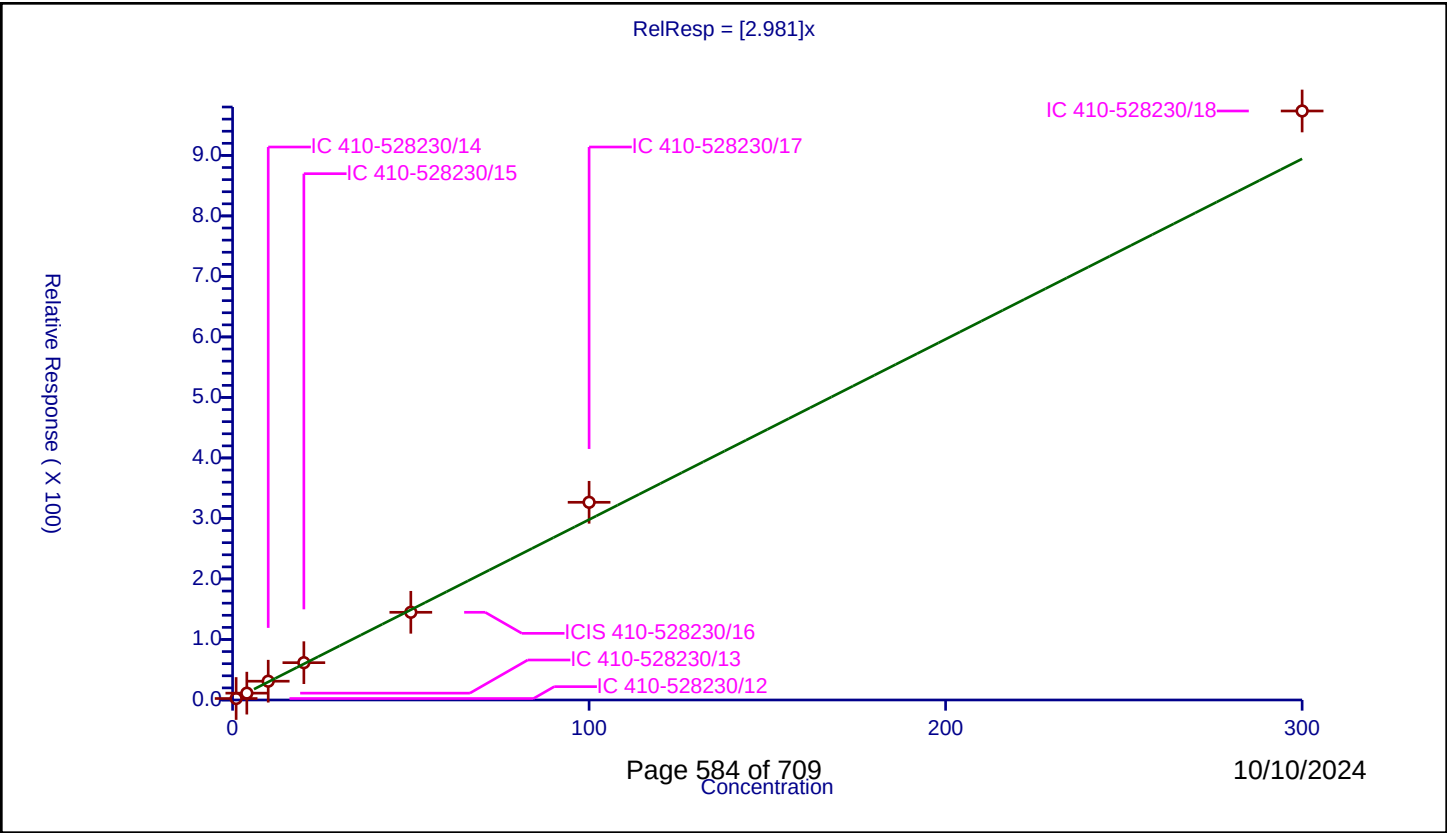
/ 4-Isopropyltoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.981
Error Coefficients	

Relative Standard Deviation: 9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	2.445487	50.0	553080.0	2.445487	Y
2	IC 410-528230/13	4.0	11.301128	50.0	544366.0	2.825282	Y
3	IC 410-528230/14	10.0	31.042966	50.0	531647.0	3.104297	Y
4	IC 410-528230/15	20.0	61.660773	50.0	515519.0	3.083039	Y
5	ICIS 410-528230/16	50.0	144.93674	50.0	487038.0	2.898735	Y
6	IC 410-528230/17	100.0	326.706202	50.0	503428.0	3.267062	Y
7	IC 410-528230/18	300.0	973.442288	50.0	558736.0	3.244808	Y



Calibration

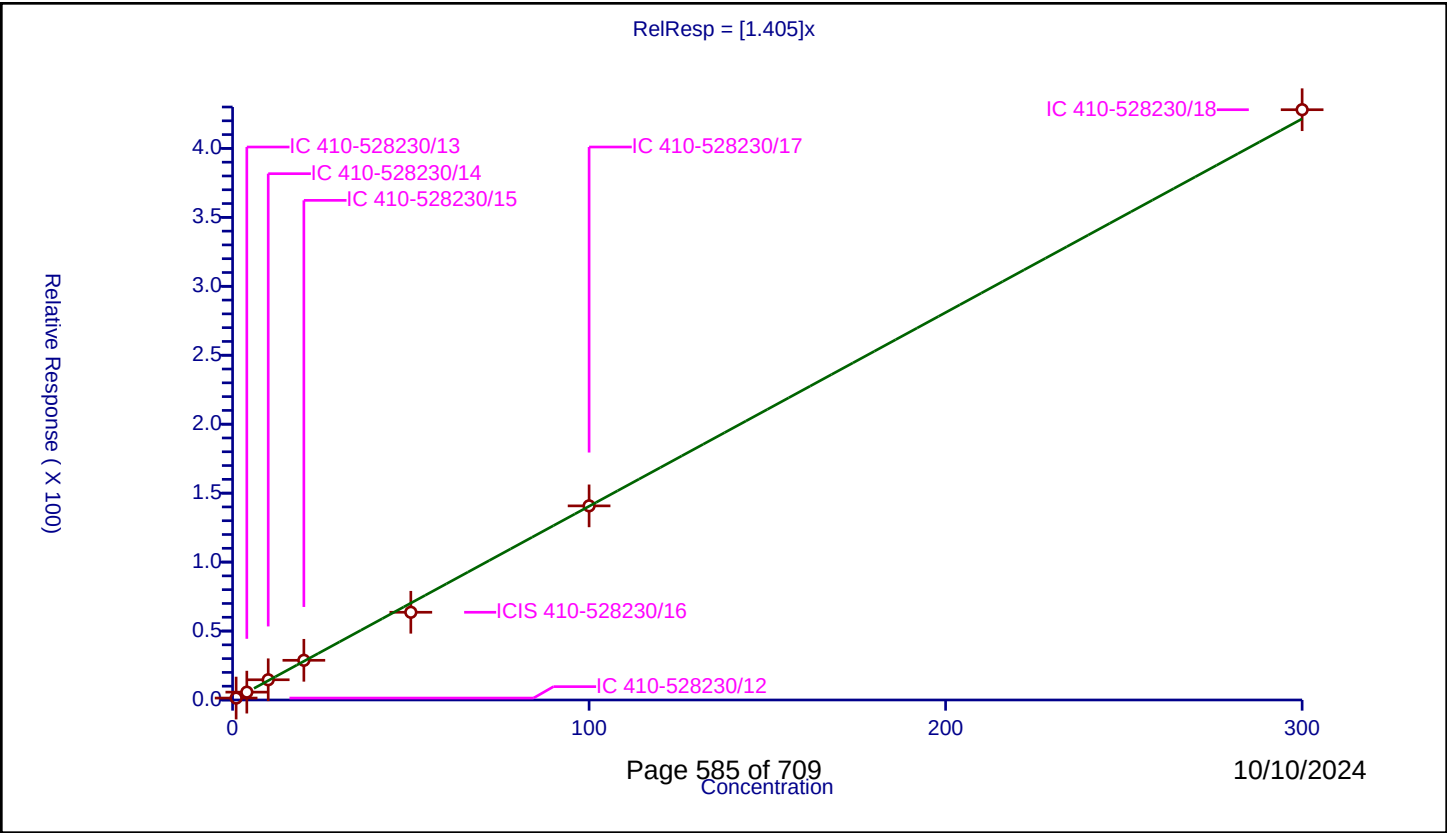
/ 1,4-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.405
Error Coefficients	

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	1.39591	50.0	553080.0	1.39591	Y
2	IC 410-528230/13	4.0	5.699934	50.0	544366.0	1.424983	Y
3	IC 410-528230/14	10.0	14.672612	50.0	531647.0	1.467261	Y
4	IC 410-528230/15	20.0	28.780414	50.0	515519.0	1.439021	Y
5	ICIS 410-528230/16	50.0	63.618137	50.0	487038.0	1.272363	Y
6	IC 410-528230/17	100.0	140.769286	50.0	503428.0	1.407693	Y
7	IC 410-528230/18	300.0	428.039092	50.0	558736.0	1.426797	Y



Calibration

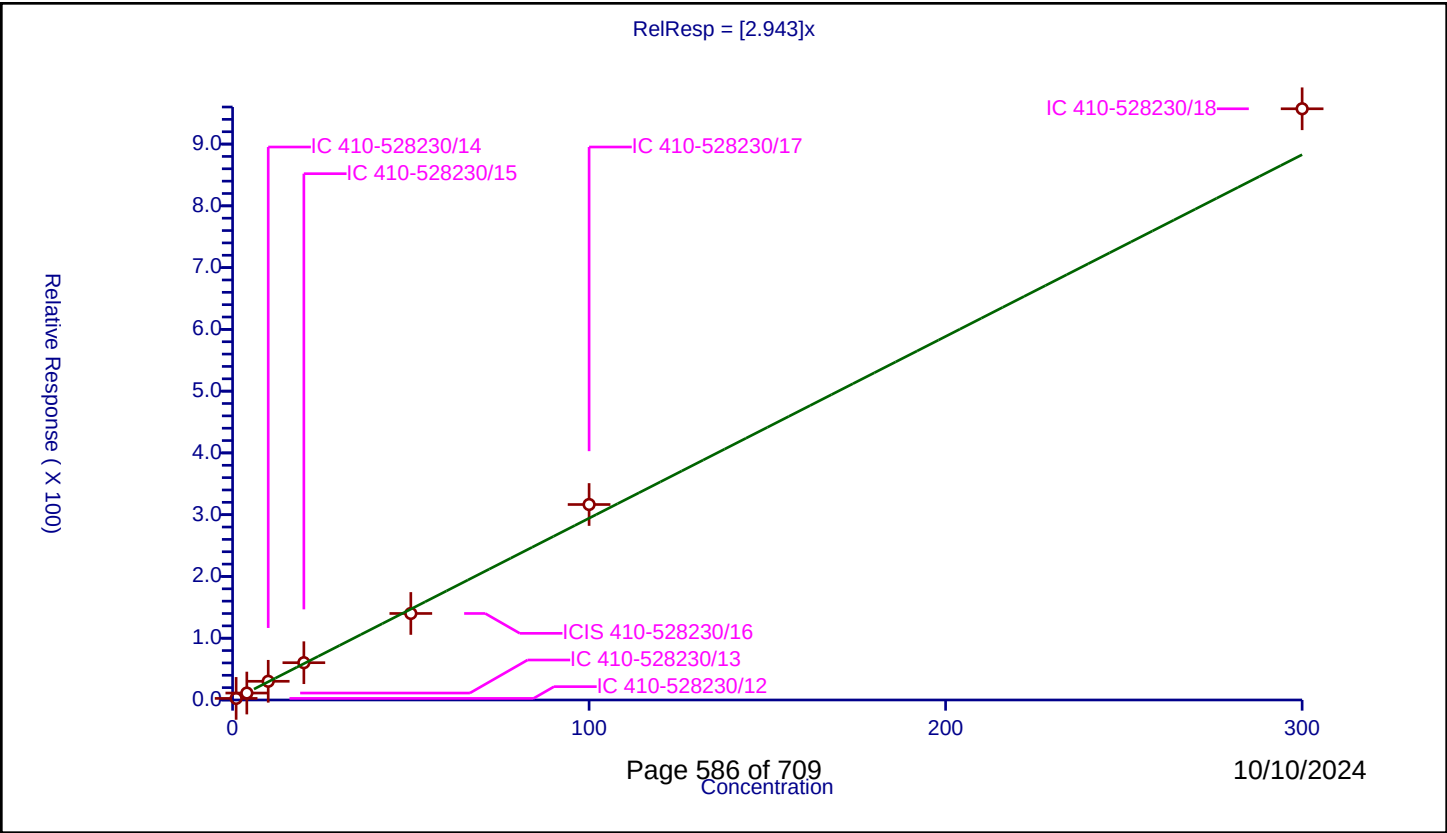
/ 1,2,3-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.943
Error Coefficients	

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	2.588866	50.0	553080.0	2.588866	Y
2	IC 410-528230/13	4.0	11.226638	50.0	544366.0	2.806659	Y
3	IC 410-528230/14	10.0	30.279772	50.0	531647.0	3.027977	Y
4	IC 410-528230/15	20.0	60.383322	50.0	515519.0	3.019166	Y
5	ICIS 410-528230/16	50.0	140.06289	50.0	487038.0	2.801258	Y
6	IC 410-528230/17	100.0	316.488058	50.0	503428.0	3.164881	Y
7	IC 410-528230/18	300.0	957.16698	50.0	558736.0	3.190557	Y



Calibration

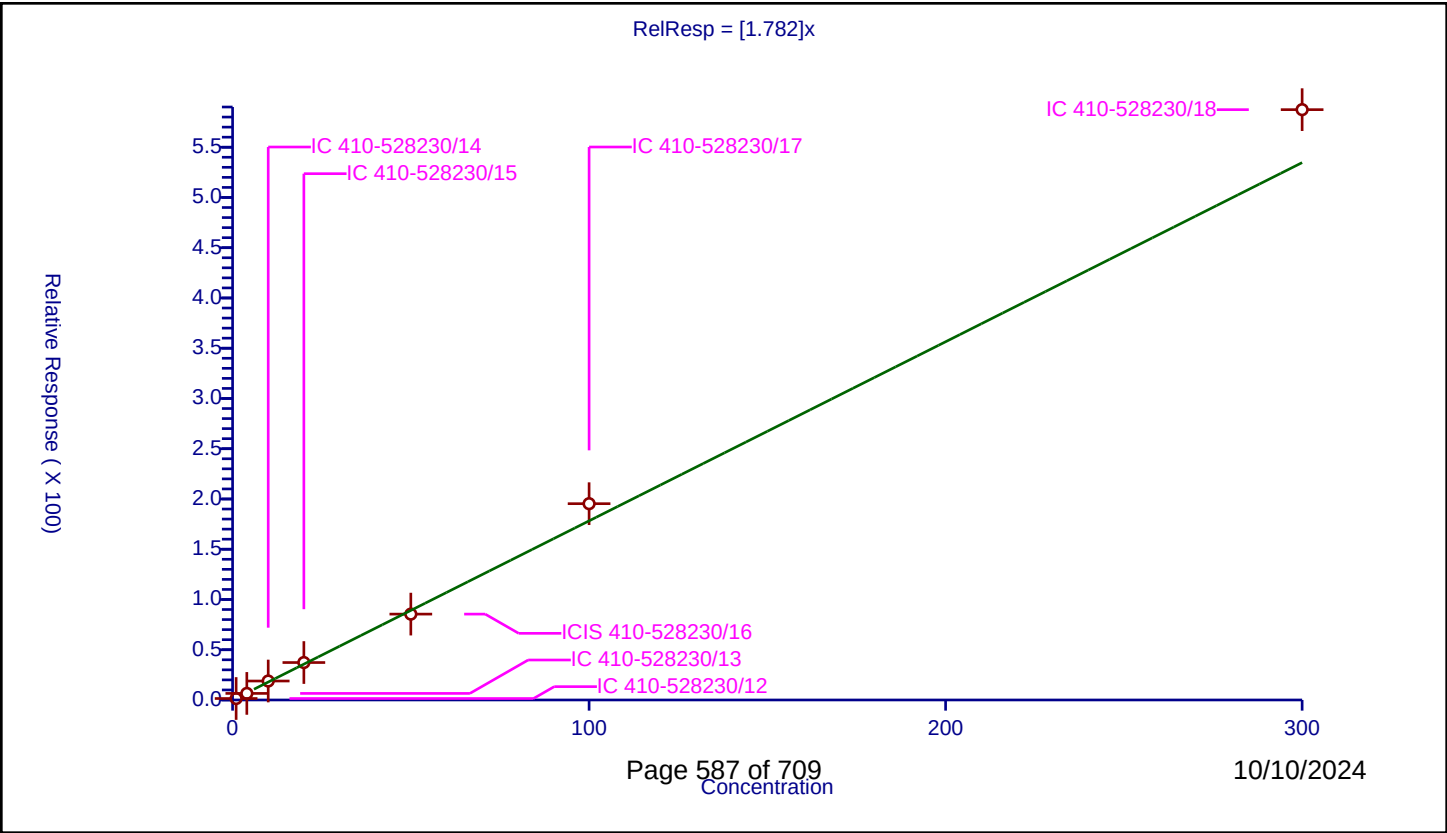
/ Benzyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.782
Error Coefficients	

Relative Standard Deviation: 10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	1.468956	50.0	553080.0	1.468956	Y
2	IC 410-528230/13	4.0	6.536687	50.0	544366.0	1.634172	Y
3	IC 410-528230/14	10.0	18.887909	50.0	531647.0	1.888791	Y
4	IC 410-528230/15	20.0	37.274863	50.0	515519.0	1.863743	Y
5	ICIS 410-528230/16	50.0	85.447131	50.0	487038.0	1.708943	Y
6	IC 410-528230/17	100.0	195.32376	50.0	503428.0	1.953238	Y
7	IC 410-528230/18	300.0	587.383755	50.0	558736.0	1.957946	Y



Calibration

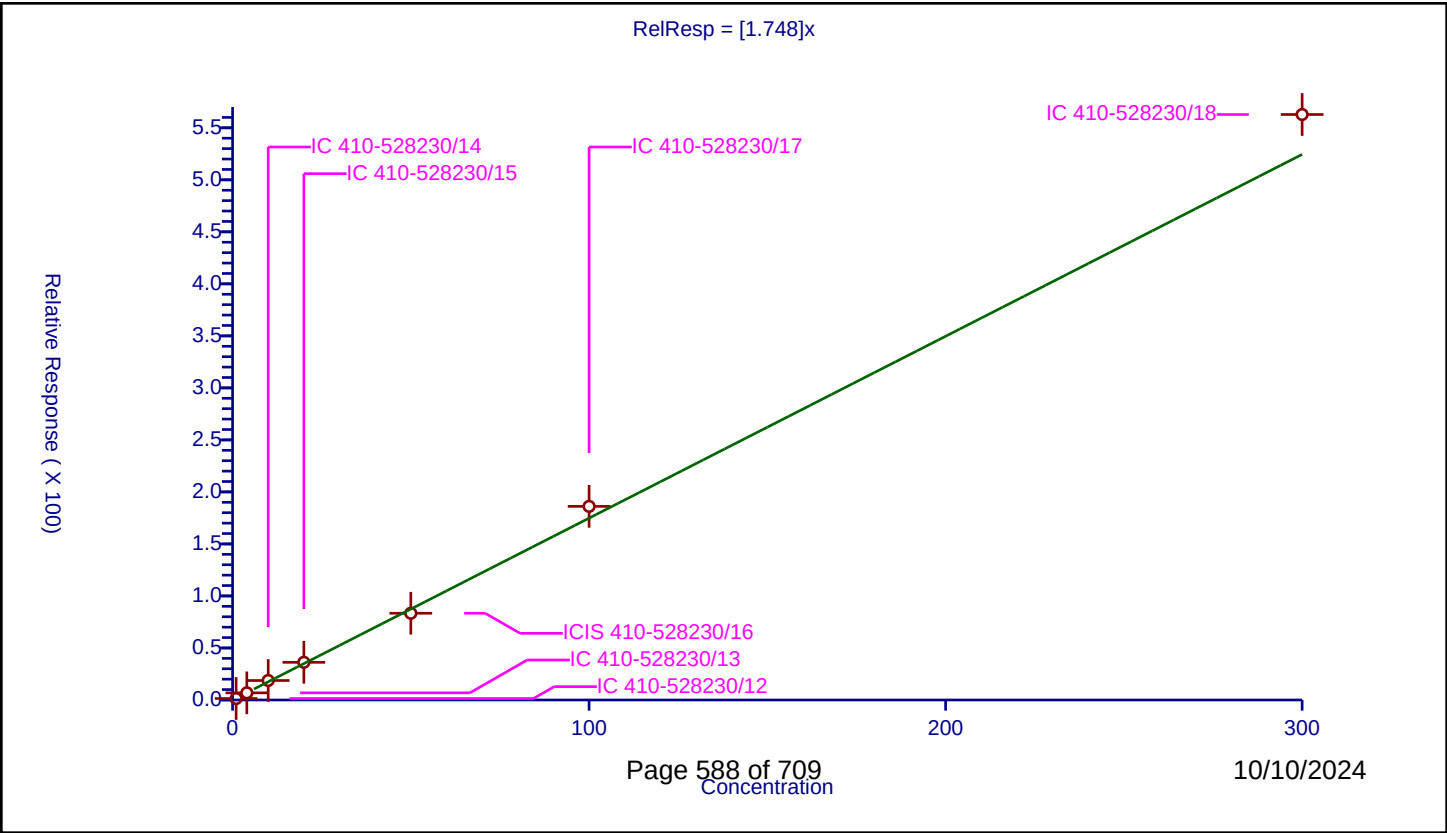
/ 1,3-Diethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.748
Error Coefficients	

Relative Standard Deviation: 9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	1.431077	50.0	553080.0	1.431077	Y
2	IC 410-528230/13	4.0	6.869275	50.0	544366.0	1.717319	Y
3	IC 410-528230/14	10.0	18.732637	50.0	531647.0	1.873264	Y
4	IC 410-528230/15	20.0	36.216415	50.0	515519.0	1.810821	Y
5	ICIS 410-528230/16	50.0	83.360436	50.0	487038.0	1.667209	Y
6	IC 410-528230/17	100.0	186.12026	50.0	503428.0	1.861203	Y
7	IC 410-528230/18	300.0	562.80748	50.0	558736.0	1.876025	Y



Calibration

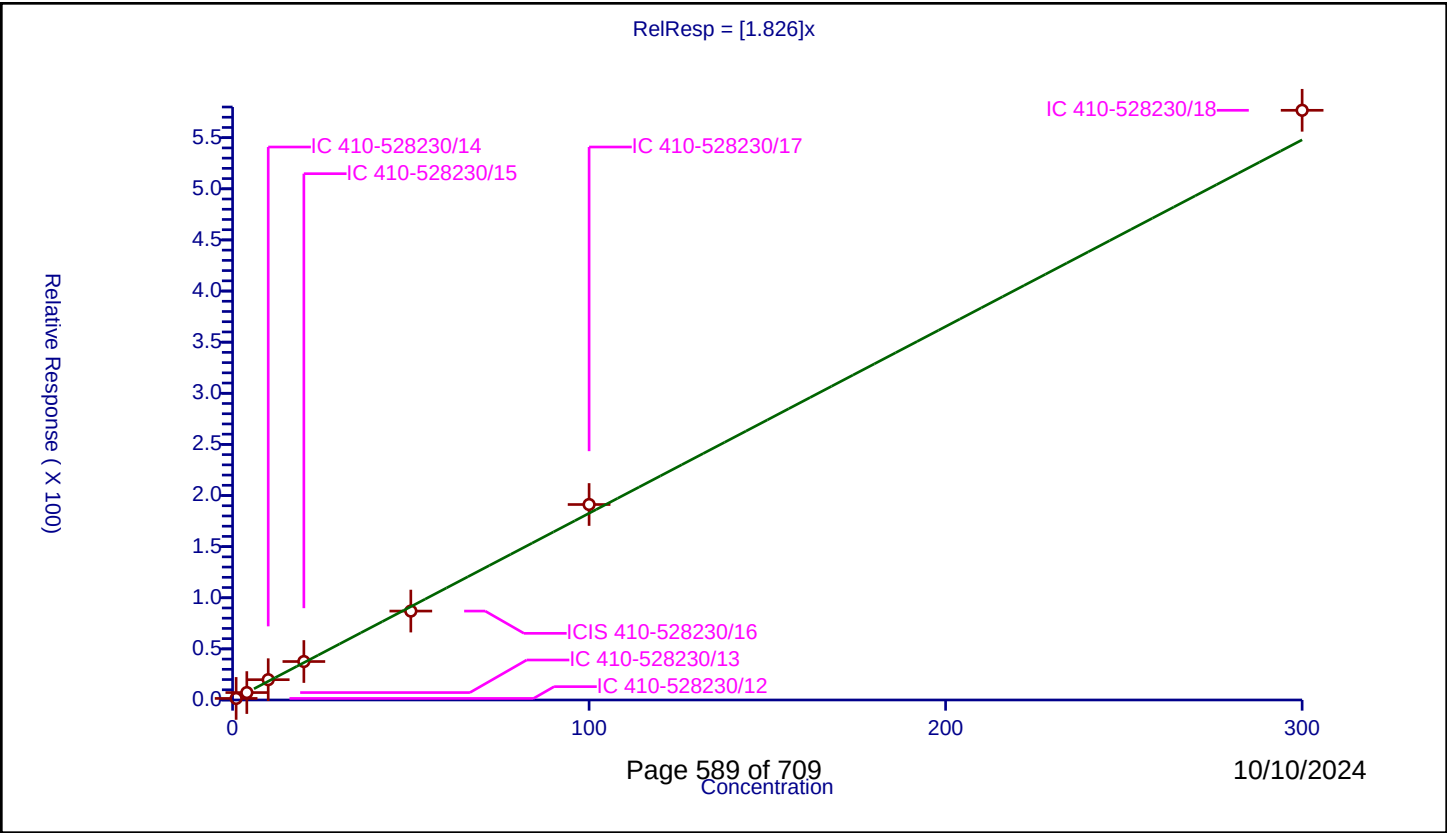
/ p-Diethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.826
Error Coefficients	

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	1.522836	50.0	553080.0	1.522836	Y
2	IC 410-528230/13	4.0	7.275252	50.0	544366.0	1.818813	Y
3	IC 410-528230/14	10.0	19.868823	50.0	531647.0	1.986882	Y
4	IC 410-528230/15	20.0	37.633627	50.0	515519.0	1.881681	Y
5	ICIS 410-528230/16	50.0	86.979455	50.0	487038.0	1.739589	Y
6	IC 410-528230/17	100.0	191.199536	50.0	503428.0	1.911995	Y
7	IC 410-528230/18	300.0	576.784564	50.0	558736.0	1.922615	Y



Calibration

/ n-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

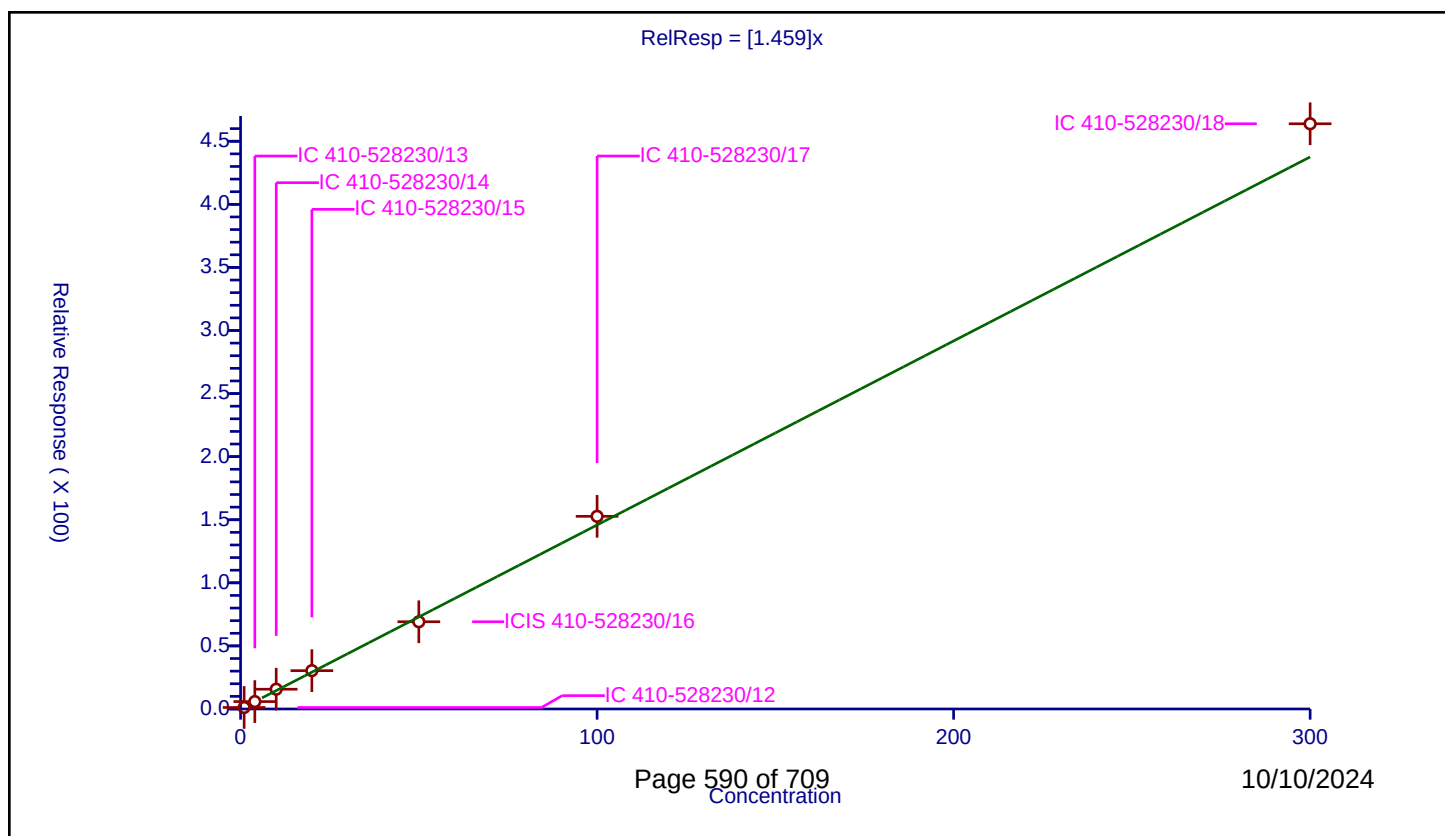
Curve Coefficients

Intercept: 0
Slope: 1.459

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	1.198561	50.0	553080.0	1.198561	Y
2	IC 410-528230/13	4.0	5.871326	50.0	544366.0	1.467831	Y
3	IC 410-528230/14	10.0	15.679765	50.0	531647.0	1.567976	Y
4	IC 410-528230/15	20.0	30.382391	50.0	515519.0	1.51912	Y
5	ICIS 410-528230/16	50.0	69.143886	50.0	487038.0	1.382878	Y
6	IC 410-528230/17	100.0	152.708034	50.0	503428.0	1.52708	Y
7	IC 410-528230/18	300.0	463.858602	50.0	558736.0	1.546195	Y



Calibration

/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

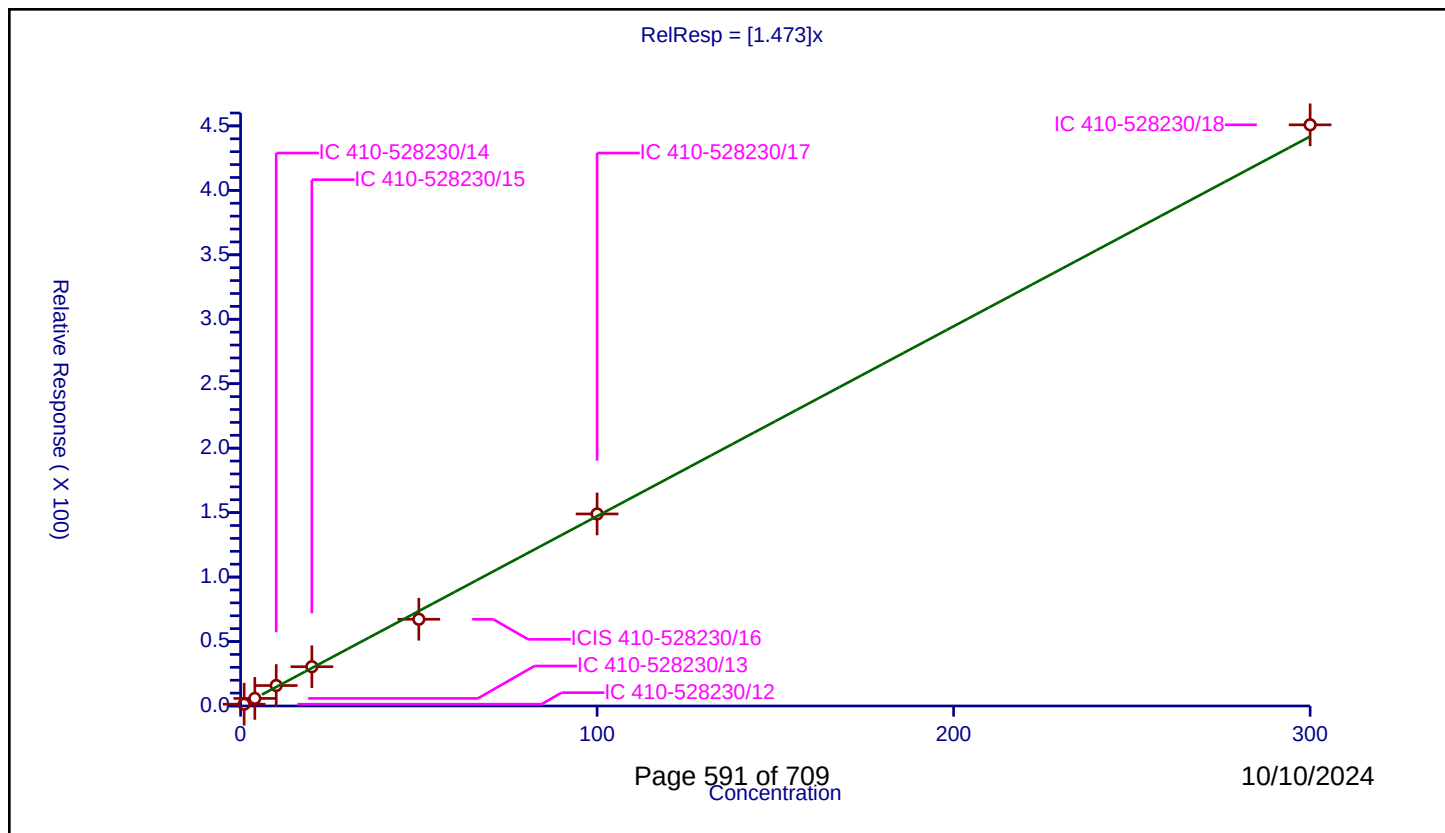
Curve Coefficients

Intercept: 0
Slope: 1.473

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	1.392204	50.0	553080.0	1.392204	Y
2	IC 410-528230/13	4.0	5.877296	50.0	544366.0	1.469324	Y
3	IC 410-528230/14	10.0	15.8609	50.0	531647.0	1.58609	Y
4	IC 410-528230/15	20.0	30.460468	50.0	515519.0	1.523023	Y
5	ICIS 410-528230/16	50.0	67.279247	50.0	487038.0	1.345585	Y
6	IC 410-528230/17	100.0	148.974531	50.0	503428.0	1.489745	Y
7	IC 410-528230/18	300.0	450.826866	50.0	558736.0	1.502756	Y



Calibration

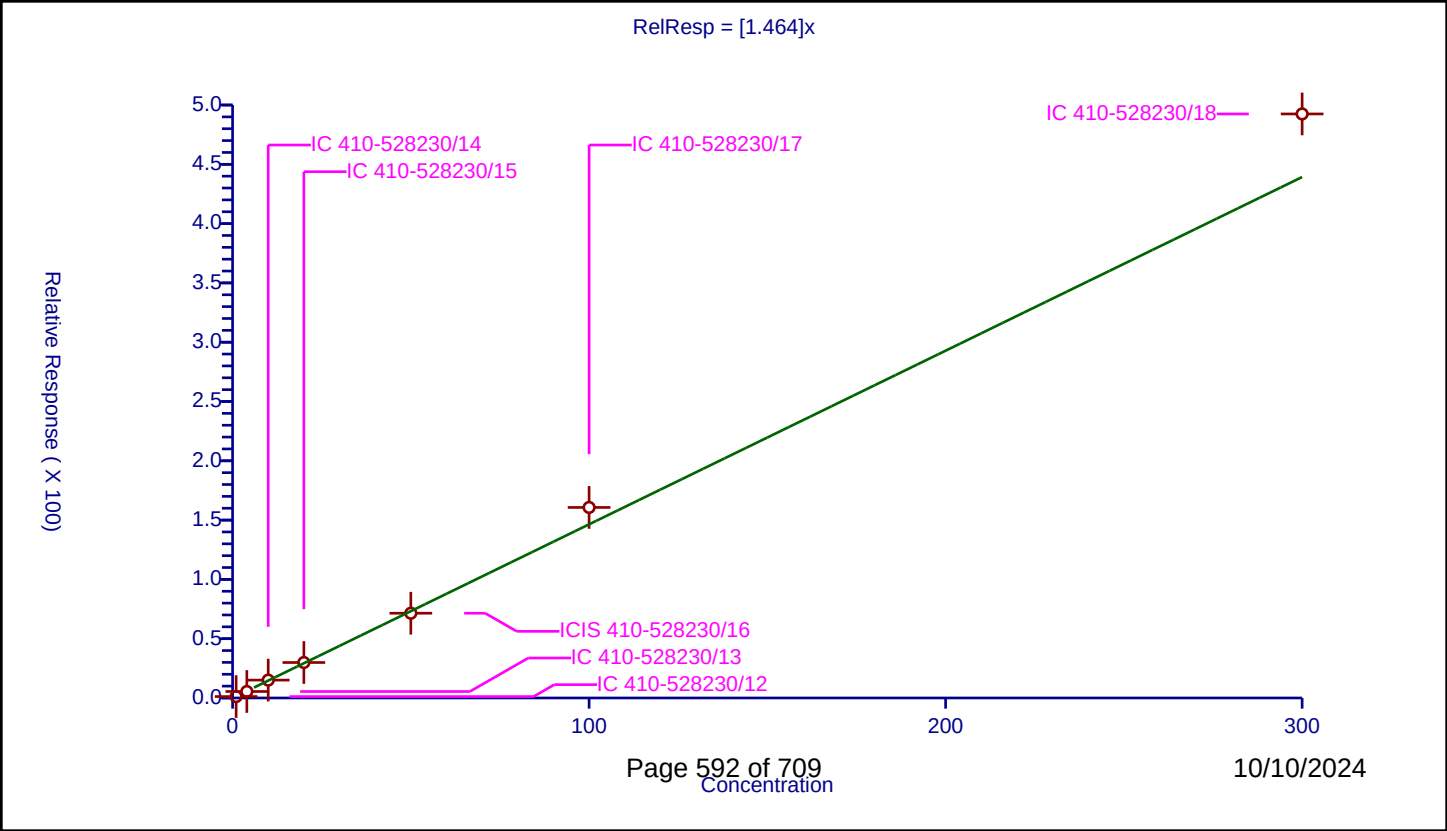
/ o-diethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.464
Error Coefficients	

Relative Standard Deviation: 10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	1.201273	50.0	553080.0	1.201273	Y
2	IC 410-528230/13	4.0	5.471778	50.0	544366.0	1.367945	Y
3	IC 410-528230/14	10.0	15.066952	50.0	531647.0	1.506695	Y
4	IC 410-528230/15	20.0	29.911992	50.0	515519.0	1.4956	Y
5	ICIS 410-528230/16	50.0	71.478612	50.0	487038.0	1.429572	Y
6	IC 410-528230/17	100.0	160.669351	50.0	503428.0	1.606694	Y
7	IC 410-528230/18	300.0	492.474711	50.0	558736.0	1.641582	Y



Calibration

/ 1,2-Dibromo-3-Chloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

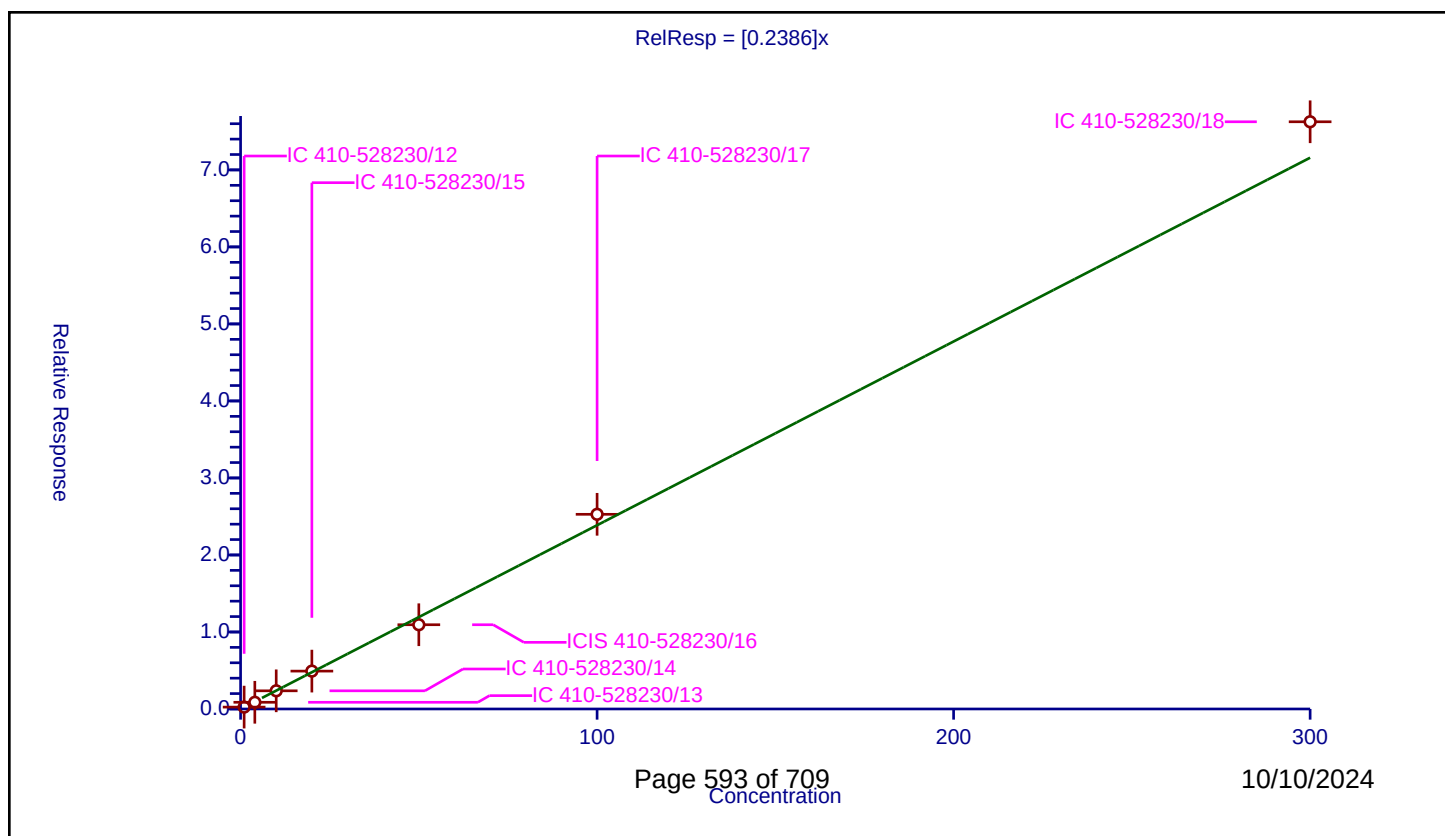
Curve Coefficients

Intercept: 0
 Slope: 0.2386

Error Coefficients

Relative Standard Deviation: 6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.245353	50.0	553080.0	0.245353	Y
2	IC 410-528230/13	4.0	0.869176	50.0	544366.0	0.217294	Y
3	IC 410-528230/14	10.0	2.359178	50.0	531647.0	0.235918	Y
4	IC 410-528230/15	20.0	4.91912	50.0	515519.0	0.245956	Y
5	ICIS 410-528230/16	50.0	10.940317	50.0	487038.0	0.218806	Y
6	IC 410-528230/17	100.0	25.279285	50.0	503428.0	0.252793	Y
7	IC 410-528230/18	300.0	76.251128	50.0	558736.0	0.25417	Y



Calibration

/ 1,3,5-Trichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

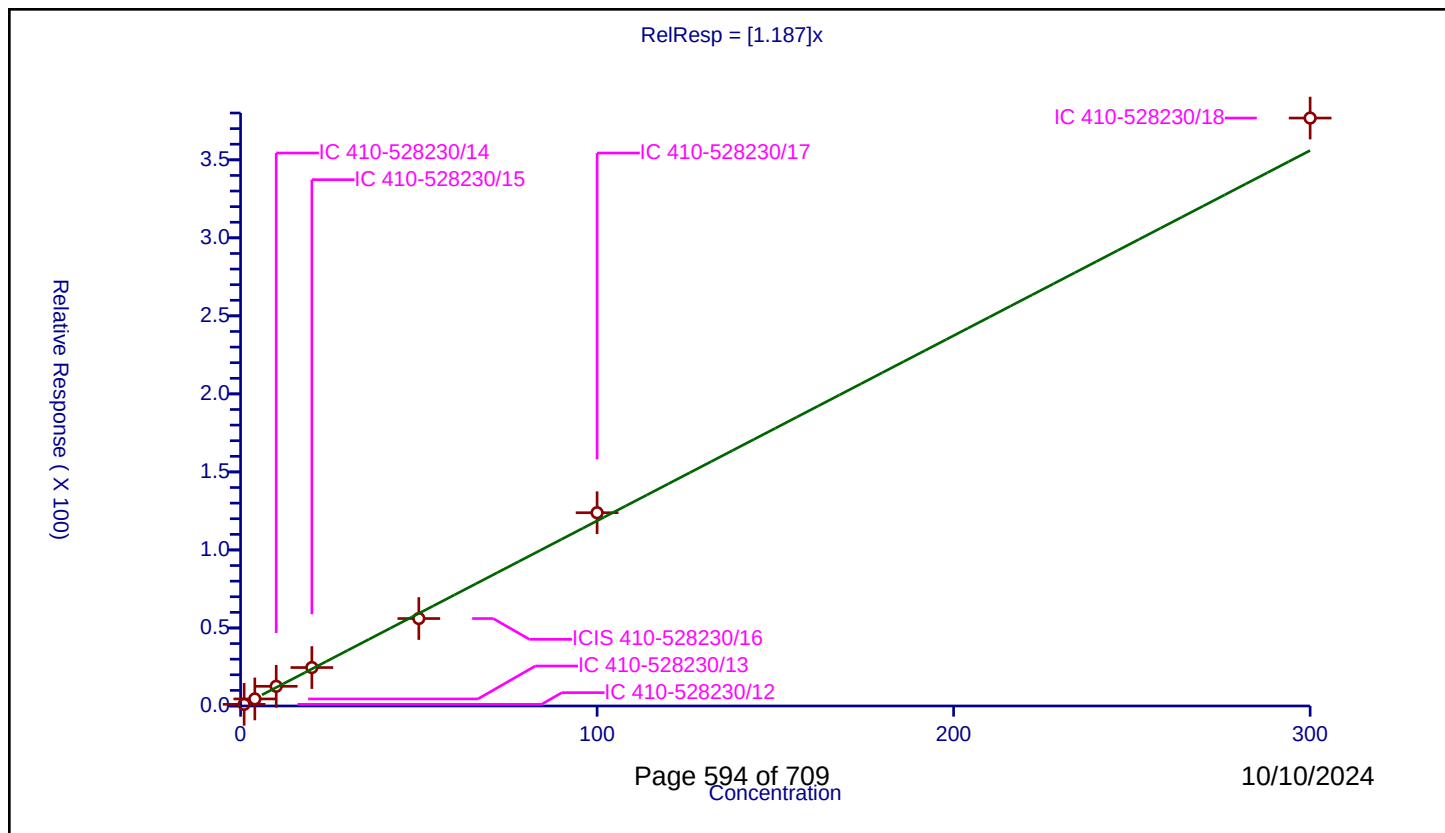
Curve Coefficients

Intercept: 0
Slope: 1.187

Error Coefficients

Relative Standard Deviation: 6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	1.0682	50.0	553080.0	1.0682	Y
2	IC 410-528230/13	4.0	4.513967	50.0	544366.0	1.128492	Y
3	IC 410-528230/14	10.0	12.62332	50.0	531647.0	1.262332	Y
4	IC 410-528230/15	20.0	24.638471	50.0	515519.0	1.231924	Y
5	ICIS 410-528230/16	50.0	56.044395	50.0	487038.0	1.120888	Y
6	IC 410-528230/17	100.0	123.851872	50.0	503428.0	1.238519	Y
7	IC 410-528230/18	300.0	376.765055	50.0	558736.0	1.255884	Y



Calibration

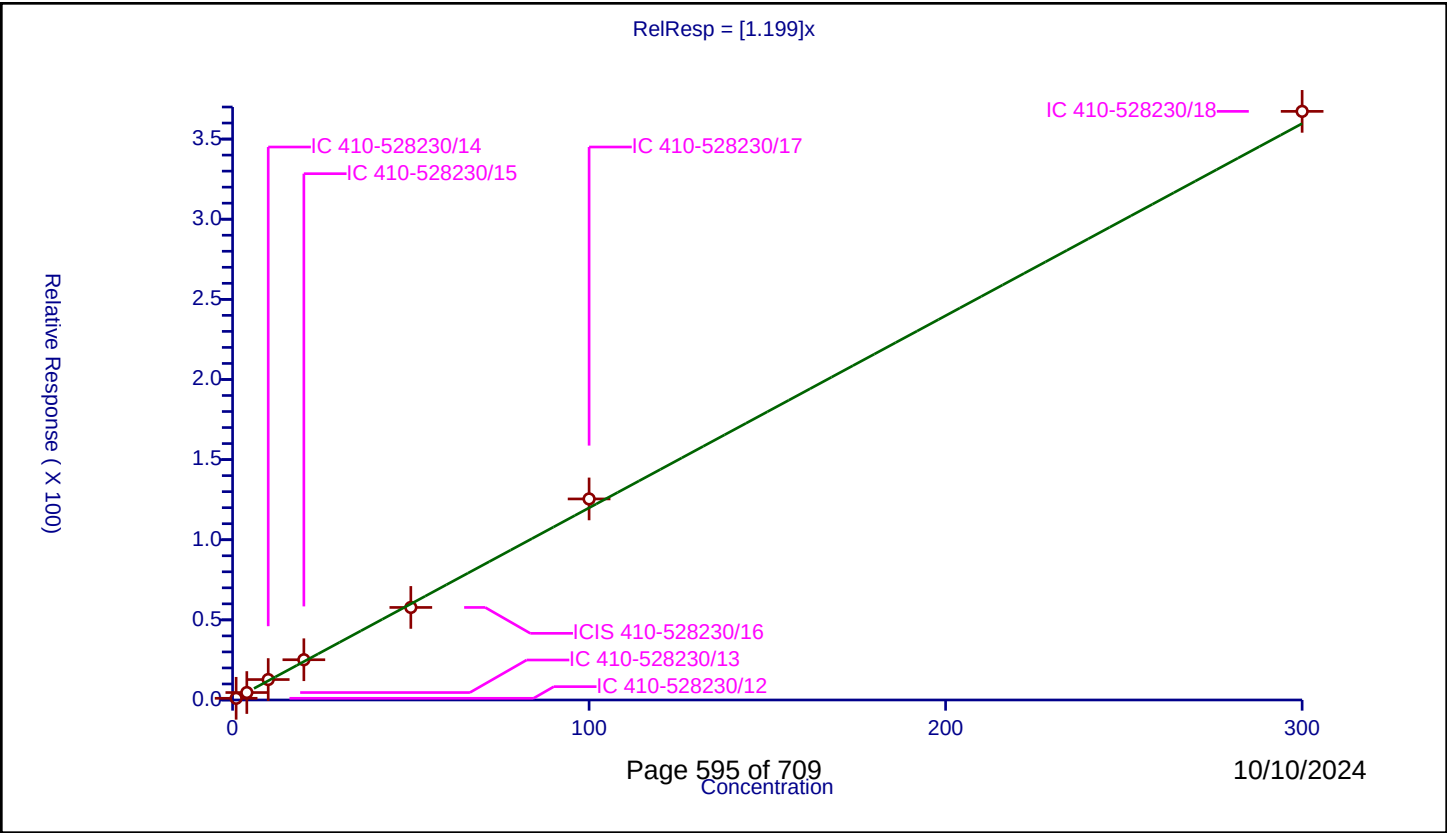
/ 1,2,4-Trichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.199
Error Coefficients	

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	1.064765	50.0	553080.0	1.064765	Y
2	IC 410-528230/13	4.0	4.651282	50.0	544366.0	1.162821	Y
3	IC 410-528230/14	10.0	12.755268	50.0	531647.0	1.275527	Y
4	IC 410-528230/15	20.0	25.115272	50.0	515519.0	1.255764	Y
5	ICIS 410-528230/16	50.0	57.742517	50.0	487038.0	1.15485	Y
6	IC 410-528230/17	100.0	125.446936	50.0	503428.0	1.254469	Y
7	IC 410-528230/18	300.0	367.295467	50.0	558736.0	1.224318	Y



Calibration

/ 2-Ethylhexyl acrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

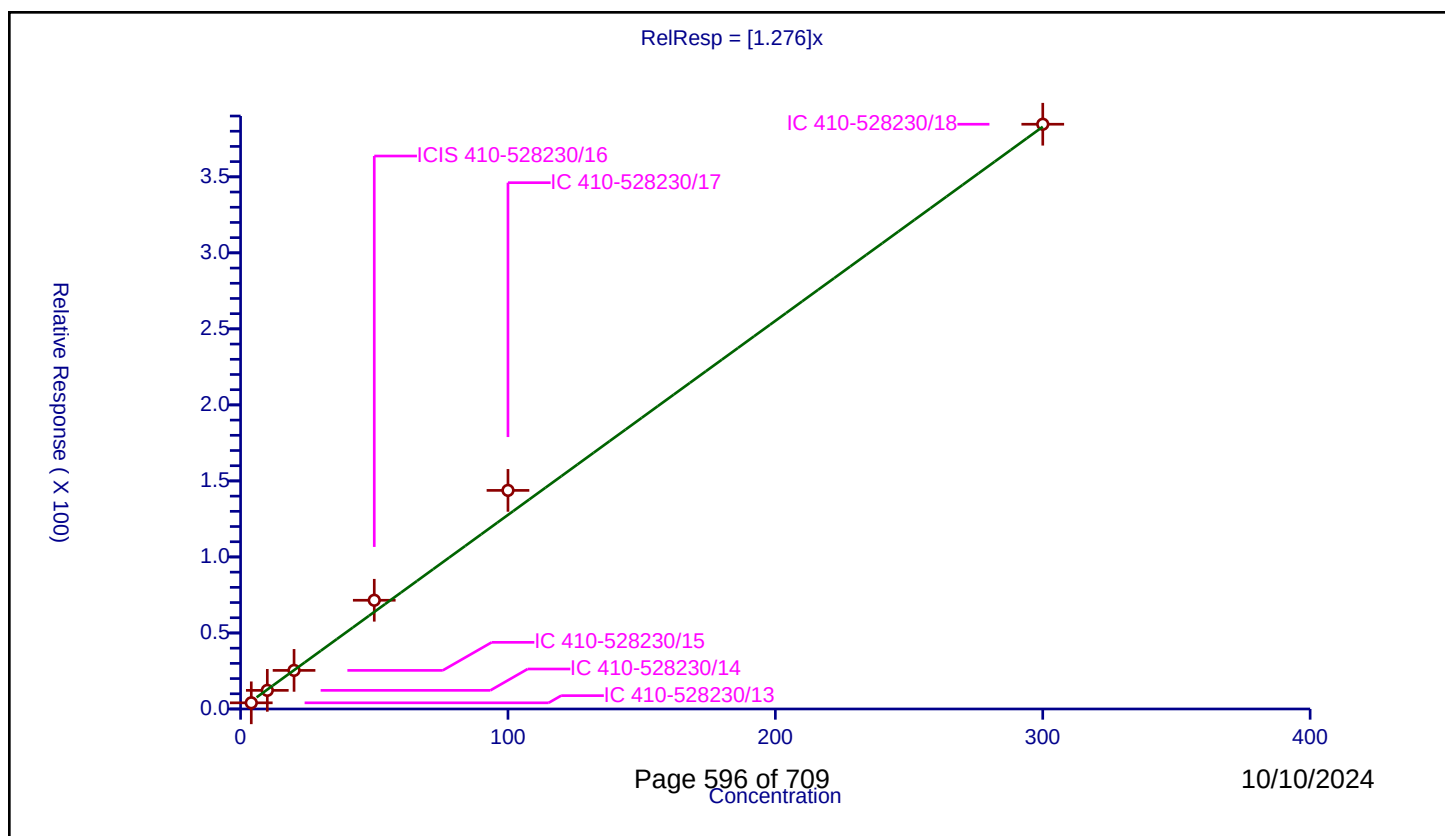
Curve Coefficients

Intercept: 0
 Slope: 1.276

Error Coefficients

Relative Standard Deviation: 12.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/13	4.0002	4.060228	50.0	544366.0	1.015006	Y
2	IC 410-528230/14	10.0005	12.247694	50.0	531647.0	1.224708	Y
3	IC 410-528230/15	20.001	25.385582	50.0	515519.0	1.269216	Y
4	ICIS 410-528230/16	50.0025	71.511976	50.0	487038.0	1.430168	Y
5	IC 410-528230/17	100.005	143.776071	50.0	503428.0	1.437689	Y
6	IC 410-528230/18	300.015	384.596124	50.0	558736.0	1.281923	Y



Calibration

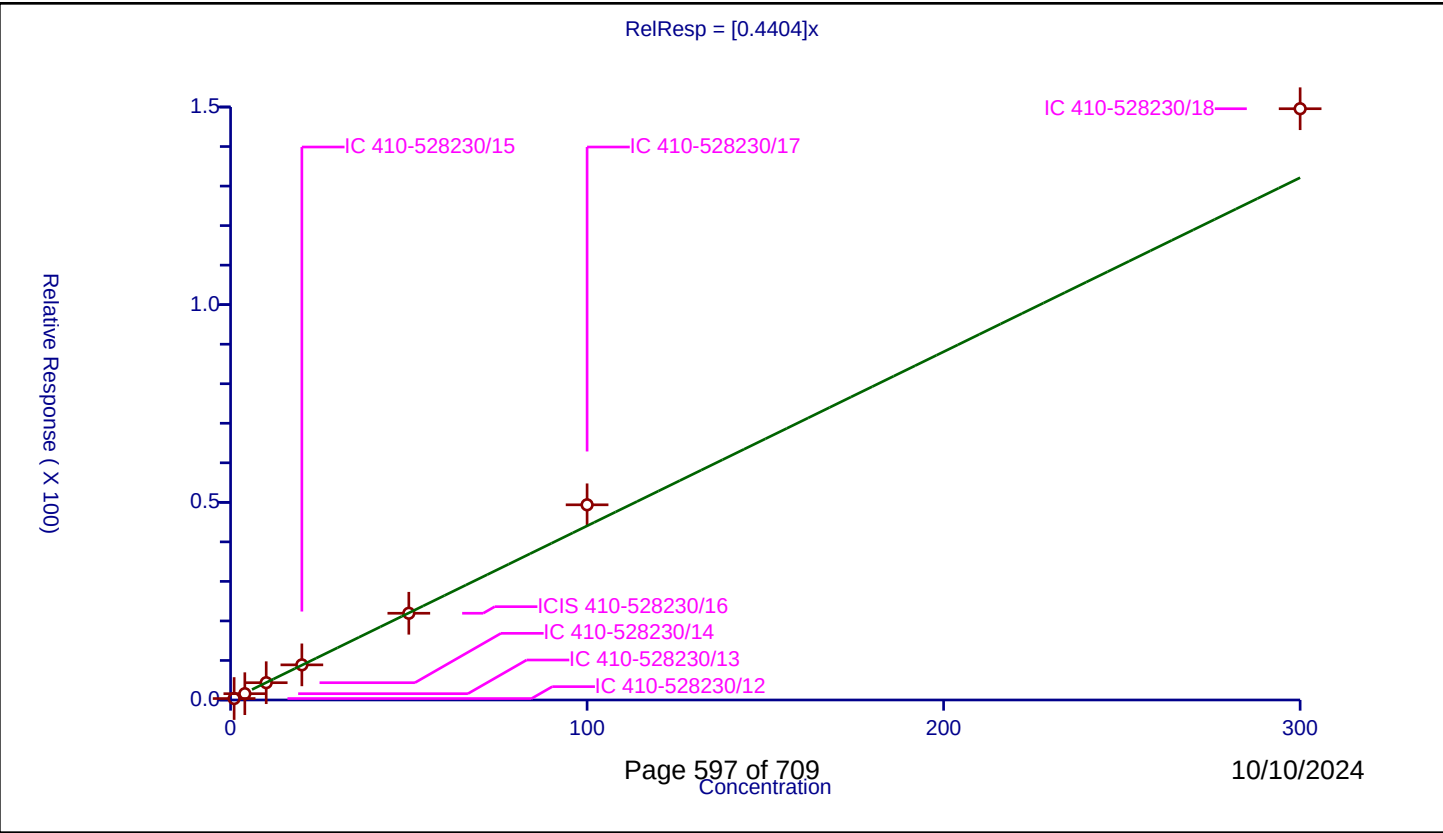
/ Hexachlorobutadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4404
Error Coefficients	

Relative Standard Deviation: 10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	0.3702	50.0	553080.0	0.3702	Y
2	IC 410-528230/13	4.0	1.598006	50.0	544366.0	0.399501	Y
3	IC 410-528230/14	10.0	4.377058	50.0	531647.0	0.437706	Y
4	IC 410-528230/15	20.0	8.8891	50.0	515519.0	0.444455	Y
5	ICIS 410-528230/16	50.0	21.937611	50.0	487038.0	0.438752	Y
6	IC 410-528230/17	100.0	49.372006	50.0	503428.0	0.49372	Y
7	IC 410-528230/18	300.0	149.56509	50.0	558736.0	0.49855	Y



Calibration

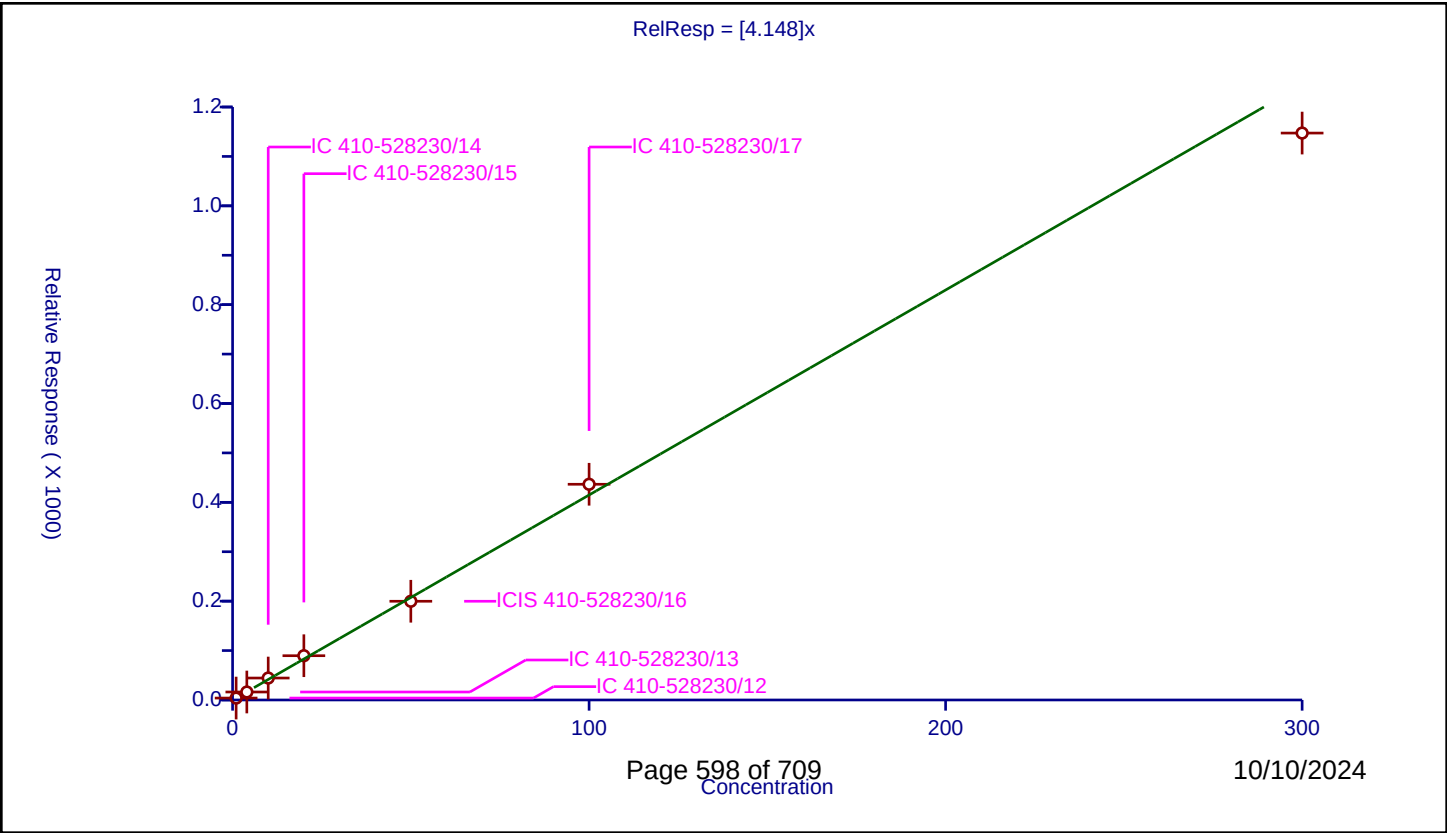
/ Naphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.148
Error Coefficients	

Relative Standard Deviation: 6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	3.885875	50.0	553080.0	3.885875	Y
2	IC 410-528230/13	4.0	16.159992	50.0	544366.0	4.039998	Y
3	IC 410-528230/14	10.0	44.464936	50.0	531647.0	4.446494	Y
4	IC 410-528230/15	20.0	89.585544	50.0	515519.0	4.479277	Y
5	ICIS 410-528230/16	50.0	199.812643	50.0	487038.0	3.996253	Y
6	IC 410-528230/17	100.0	436.535016	50.0	503428.0	4.36535	Y
7	IC 410-528230/18	300.0	1147.29076	50.0	558736.0	3.824303	Y



Calibration

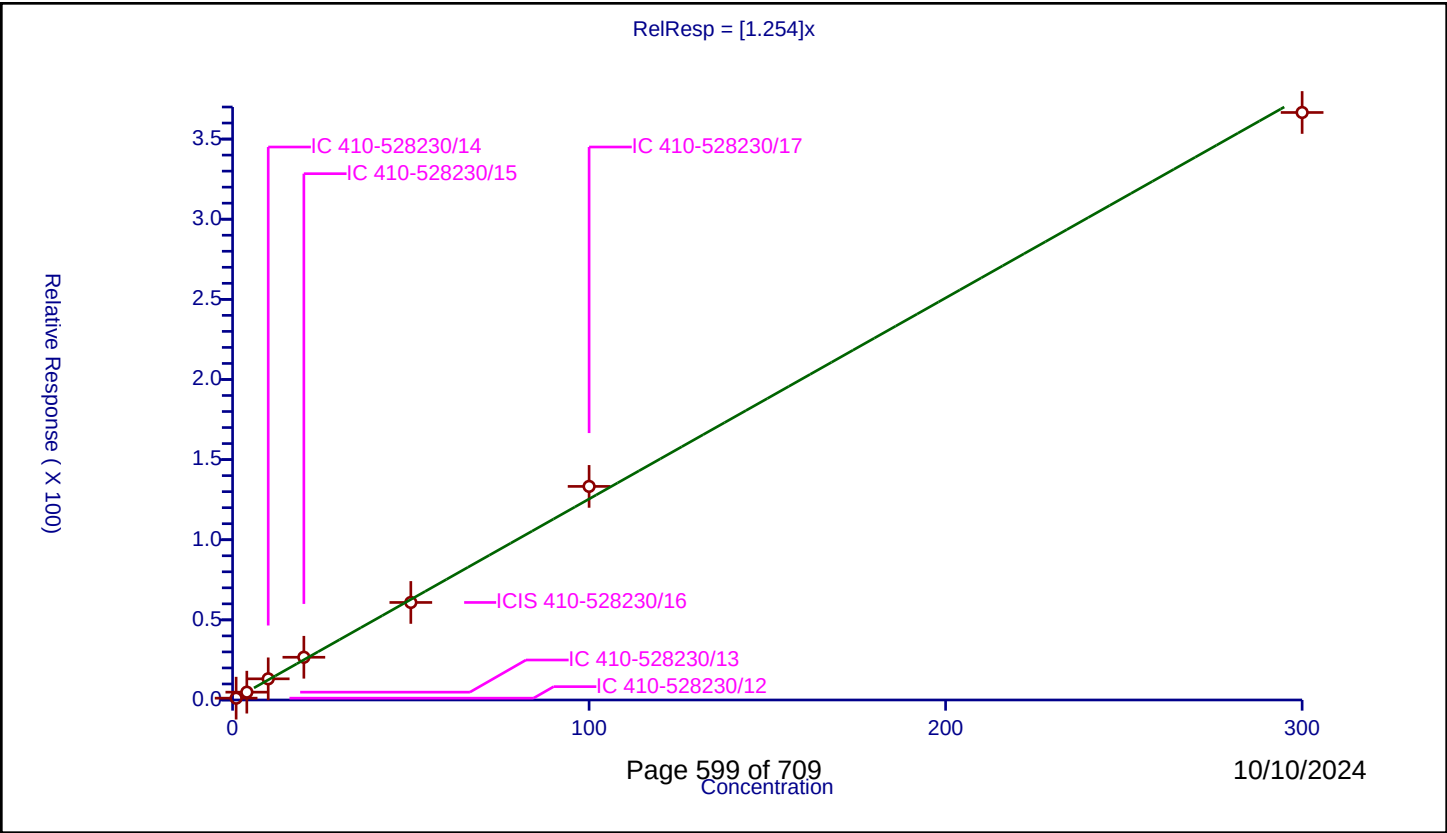
/ 1,2,3-Trichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.254
Error Coefficients	

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	1.131572	50.0	553080.0	1.131572	Y
2	IC 410-528230/13	4.0	4.888531	50.0	544366.0	1.222133	Y
3	IC 410-528230/14	10.0	13.209799	50.0	531647.0	1.32098	Y
4	IC 410-528230/15	20.0	26.664488	50.0	515519.0	1.333224	Y
5	ICIS 410-528230/16	50.0	60.859933	50.0	487038.0	1.217199	Y
6	IC 410-528230/17	100.0	133.279138	50.0	503428.0	1.332791	Y
7	IC 410-528230/18	300.0	366.581266	50.0	558736.0	1.221938	Y



Calibration

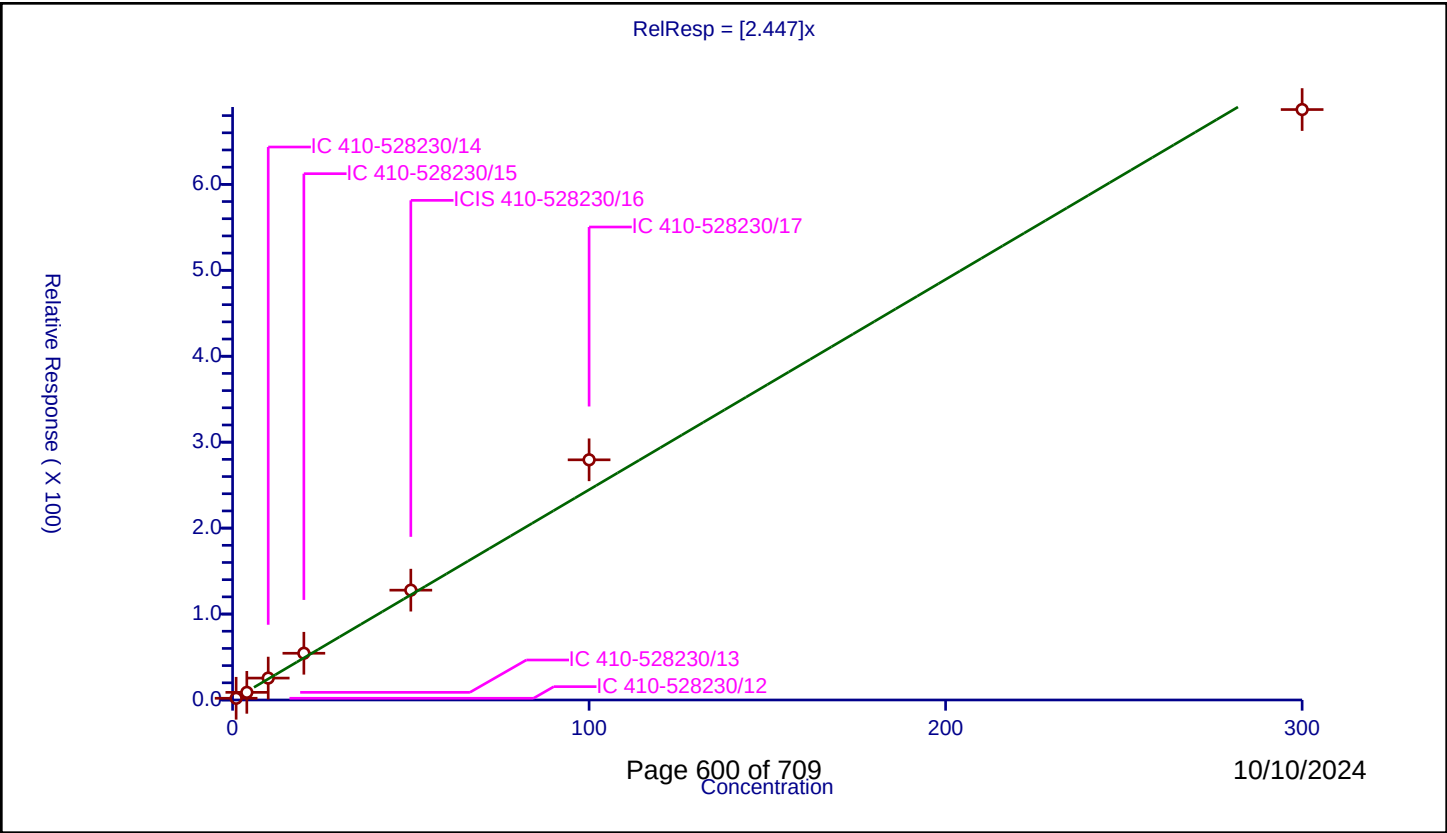
/ 2-Methylnaphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.447
Error Coefficients	

Relative Standard Deviation: 11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-528230/12	1.0	1.996547	50.0	553080.0	1.996547	Y
2	IC 410-528230/13	4.0	8.879228	50.0	544366.0	2.219807	Y
3	IC 410-528230/14	10.0	25.504893	50.0	531647.0	2.550489	Y
4	IC 410-528230/15	20.0	54.387035	50.0	515519.0	2.719352	Y
5	ICIS 410-528230/16	50.0	127.789207	50.0	487038.0	2.555784	Y
6	IC 410-528230/17	100.0	279.486242	50.0	503428.0	2.794862	Y
7	IC 410-528230/18	300.0	687.03708	50.0	558736.0	2.290124	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Lab Sample ID: ICV 410-528230/20

Calibration Date: 07/15/2024 20:42

Instrument ID: 9915

Calib Start Date: 07/15/2024 17:41

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 07/15/2024 19:57

Lab File ID: LL15X19.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.4369	0.4232	0.1000	19.4	20.0	-3.1	30.0
Chloromethane	Ave	0.4865	0.4451	0.1000	18.3	20.0	-8.5	30.0
1,3-Butadiene	Ave	0.4663	0.3607		15.5	20.0	-22.7	30.0
Vinyl chloride	Ave	0.4761	0.4383	0.1000	18.4	20.0	-7.9	30.0
Bromomethane	Ave	0.3695	0.3372	0.1000	18.2	20.0	-8.8	30.0
Chloroethane	Ave	0.2493	0.2352	0.1000	18.9	20.0	-5.7	30.0
Dichlorofluoromethane	Ave	0.7671	0.6365		16.6	20.0	-17.0	30.0
Trichlorofluoromethane	Ave	0.5729	0.4942	0.1000	17.3	20.0	-13.7	30.0
n-Pentane	Ave	0.3968	0.3613		18.2	20.0	-9.0	30.0
Ethyl ether	Ave	0.1873	0.1925		20.5	19.9	2.8	30.0
Freon 123a	Ave	0.3548	0.3215		18.1	20.0	-9.4	30.0
Acrolein	Ave	1.435	1.385		145	150	-3.5	30.0
Acetone	Ave	0.6783	0.6032	0.1000	222	250	-11.1	30.0
1,1-Dichloroethene	Ave	0.2625	0.2715	0.1000	20.7	20.0	3.5	30.0
Freon 113	Ave	0.3019	0.2582	0.1000	17.1	20.0	-14.5	30.0
2-Propanol	Ave	0.4842	0.4345		135	150	-10.3	30.0
Methyl iodide	Ave	0.5519	0.5244		19.0	20.0	-5.0	30.0
Carbon disulfide	Ave	0.9616	0.8977	0.1000	18.7	20.0	-6.6	30.0
Methyl acetate	Ave	0.2101	0.2171	0.1000	20.7	20.0	3.3	30.0
Allyl chloride	Ave	0.3662	0.3256		17.8	20.0	-11.1	30.0
Methylene Chloride	Ave	0.3180	0.3077	0.1000	19.4	20.0	-3.2	30.0
t-Butyl alcohol	Ave	0.9013	0.9106		202	200	1.0	30.0
Acrylonitrile	Ave	0.1207	0.1231		102	100	2.0	30.0
trans-1,2-Dichloroethene	Ave	0.2458	0.2420	0.1000	19.7	20.0	-1.5	30.0
Methyl tert-butyl ether	Ave	0.9582	0.9106	0.1000	19.0	20.0	-5.0	30.0
n-Hexane	Ave	0.3020	0.2756		18.2	20.0	-8.8	30.0
1,1-Dichloroethane	Ave	0.3978	0.4063	0.2000	20.4	20.0	2.1	30.0
Isopropyl ether	Ave	0.8214	0.7789		19.0	20.0	-5.2	30.0
2-Chloro-1,3-butadiene	Ave	0.3449	0.3286		19.1	20.0	-4.7	30.0
Ethyl t-butyl ether	Ave	0.8734	0.8644		19.8	20.0	-1.0	30.0
2-Butanone (MEK)	Ave	0.1564	0.1590	0.1000	254	250	1.7	30.0
cis-1,2-Dichloroethene	Ave	0.2693	0.2650	0.1000	19.7	20.0	-1.6	30.0
2,2-Dichloropropane	Ave	0.4537	0.4448		19.6	20.0	-2.0	30.0
Propionitrile	Ave	1.007	1.026		153	150	1.9	30.0
Methyl acrylate	Ave	0.3063	0.3151		20.6	20.0	2.9	30.0
Methacrylonitrile	Ave	0.1272	0.1319		156	150	3.8	30.0
Bromochloromethane	Ave	0.1414	0.1379		19.5	20.0	-2.5	30.0
Tetrahydrofuran	Ave	0.8994	0.8692		96.6	100	-3.4	30.0
Chloroform	Ave	0.4459	0.4239	0.2000	19.0	20.0	-4.9	30.0
1,1,1-Trichloroethane	Ave	0.4567	0.4611	0.1000	20.2	20.0	1.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.: _____

Lab Sample ID: ICV 410-528230/20

Calibration Date: 07/15/2024 20:42

Instrument ID: 9915

Calib Start Date: 07/15/2024 17:41

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 07/15/2024 19:57

Lab File ID: LL15X19.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Cyclohexane	Ave	0.5071	0.4724	0.1000	18.6	20.0	-6.8	30.0
1,1-Dichloropropene	Ave	0.3204	0.3125		19.5	20.0	-2.5	30.0
Carbon tetrachloride	Ave	0.3646	0.3536	0.1000	19.4	20.0	-3.0	30.0
Isobutyl alcohol	Ave	0.3188	0.2839		445	500	-10.9	30.0
Benzene	Ave	0.9920	0.9771	0.5000	19.7	20.0	-1.5	30.0
1,2-Dichloroethane	Ave	0.3355	0.3345	0.1000	19.9	20.0	-0.3	30.0
t-Amyl methyl ether	Ave	0.8534	0.8437		19.8	20.0	-1.1	30.0
n-Heptane	Ave	0.3218	0.2972		18.5	20.0	-7.7	30.0
n-Butanol	Ave	0.2159	0.2142		992	1000	-0.8	30.0
Trichloroethene	Ave	0.2573	0.2511	0.2000	19.5	20.0	-2.4	30.0
Ethyl acrylate	Ave	0.3494	0.3424		19.6	20.0	-2.0	30.0
Methylcyclohexane	Ave	0.5053	0.4688	0.1000	18.6	20.0	-7.2	30.0
1,2-Dichloropropane	Ave	0.2459	0.2469	0.1000	20.1	20.0	0.4	30.0
t-Amyl ethyl ether	Ave	0.4048	0.3699		18.3	20.0	-8.6	30.0
Methyl methacrylate	Ave	0.2085	0.1887		18.1	20.0	-9.5	30.0
1,4-Dioxane	Ave	0.0684	0.0671	0.0050	490	500	-1.9	30.0
Dibromomethane	Ave	0.1799	0.1708		19.0	20.0	-5.1	30.0
Bromodichloromethane	Ave	0.3117	0.3047	0.2000	19.6	20.0	-2.2	30.0
2-Nitropropane	Ave	1.745	1.562		17.9	20.0	-10.5	30.0
2-Chloroethyl vinyl ether	Ave	0.0920	0.0874		19.0	20.0	-5.0	30.0
cis-1,3-Dichloropropene	Ave	0.3850	0.3573	0.2000	18.6	20.0	-7.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3682	0.3716	0.1000	252	250	0.9	30.0
Toluene	Ave	0.7877	0.7842	0.4000	19.9	20.0	-0.4	30.0
trans-1,3-Dichloropropene	Ave	0.4359	0.4286	0.1000	19.7	20.0	-1.7	30.0
Ethyl methacrylate	Ave	0.4933	0.4782		19.4	20.0	-3.0	30.0
1,1,2-Trichloroethane	Ave	0.2918	0.2911	0.1000	19.9	20.0	-0.3	30.0
Tetrachloroethene	Ave	0.3328	0.3325	0.2000	20.0	20.0	-0.0	30.0
1,3-Dichloropropane	Ave	0.4649	0.4608		19.8	20.0	-0.9	30.0
2-Hexanone	Ave	0.2978	0.3021	0.1000	254	250	1.4	30.0
Dibromochloromethane	Ave	0.3090	0.3009		19.5	20.0	-2.6	30.0
1,2-Dibromoethane (EDB)	Ave	0.3135	0.3100	0.1000	19.8	20.0	-1.1	30.0
1-Chlorohexane	Ave	0.4362	0.4062		18.6	20.0	-6.9	30.0
Chlorobenzene	Ave	0.8743	0.8809	0.5000	20.1	20.0	0.7	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3565	0.3569		20.0	20.0	0.1	30.0
Ethylbenzene	Ave	1.610	1.610	0.1000	20.0	20.0	0.0	30.0
m&p-Xylene	Ave	0.6281	0.6268	0.1000	39.9	40.0	-0.2	30.0
n-Butyl acrylate	Ave	0.7295	0.7725		21.1	20.0	5.9	30.0
o-Xylene	Ave	0.6774	0.6778	0.3000	20.0	20.0	0.0	30.0
Styrene	Ave	1.023	1.034	0.3000	20.2	20.0	1.1	30.0
Bromoform	Ave	0.2271	0.2163	0.1000	19.1	20.0	-4.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.: _____

Lab Sample ID: ICV 410-528230/20

Calibration Date: 07/15/2024 20:42

Instrument ID: 9915

Calib Start Date: 07/15/2024 17:41

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 07/15/2024 19:57

Lab File ID: LL15X19.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.705	1.847	0.1000	21.7	20.0	8.3	30.0
Cyclohexanone	Ave	0.3225	0.2400		372	500	-25.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9129	0.9185	0.3000	20.1	20.0	0.6	30.0
Bromobenzene	Ave	0.6934	0.7086		20.4	20.0	2.2	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2347	0.2465		105	100	5.0	30.0
1,2,3-Trichloropropane	Ave	0.2723	0.2657		19.5	20.0	-2.4	30.0
N-Propylbenzene	Ave	3.405	3.522		20.7	20.0	3.5	30.0
2-Chlorotoluene	Ave	0.7088	0.7149		20.2	20.0	0.9	30.0
1,3,5-Trimethylbenzene	Ave	2.689	2.723		20.2	20.0	1.2	30.0
4-Chlorotoluene	Ave	0.6813	0.6749		19.8	20.0	-0.9	30.0
tert-Butylbenzene	Ave	0.4933	0.4969		20.1	20.0	0.7	30.0
1,2,4-Trimethylbenzene	Ave	2.727	2.769		20.3	20.0	1.6	30.0
sec-Butylbenzene	Ave	3.380	3.432		20.3	20.0	1.5	30.0
1,3-Dichlorobenzene	Ave	1.379	1.394	0.6000	20.2	20.0	1.1	30.0
p-Isopropyltoluene	Ave	2.981	2.996		20.1	20.0	0.5	30.0
1,4-Dichlorobenzene	Ave	1.405	1.412	0.5000	20.1	20.0	0.5	30.0
1,2,3-Trimethylbenzene	Ave	2.943	2.864		19.5	20.0	-2.7	30.0
Benzyl chloride	Ave	1.782	1.748		19.6	20.0	-1.9	30.0
1,3-Diethylbenzene	Ave	1.748	1.832		21.0	20.0	4.8	30.0
1,4-Diethylbenzene	Ave	1.826	1.925		21.1	20.0	5.4	30.0
n-Butylbenzene	Ave	1.459	1.510		20.7	20.0	3.5	30.0
1,2-Dichlorobenzene	Ave	1.473	1.501	0.4000	20.4	20.0	1.9	30.0
1,2-Diethylbenzene	Ave	1.464	1.470		20.1	20.0	0.4	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.2386	0.2247	0.0500	18.8	20.0	-5.8	30.0
1,3,5-Trichlorobenzene	Ave	1.187	1.297		21.9	20.0	9.3	30.0
1,2,4-Trichlorobenzene	Ave	1.199	1.319	0.2000	22.0	20.0	10.0	30.0
2-Ethylhexyl acrylate	Ave	1.276	1.472		23.1	20.0	15.3	30.0
Hexachlorobutadiene	Ave	0.4404	0.5702		25.9	20.0	29.5	30.0
Naphthalene	Ave	4.148	4.354		21.0	20.0	5.0	30.0
1,2,3-Trichlorobenzene	Ave	1.254	1.375		21.9	20.0	9.6	30.0
2-Methylnaphthalene	Ave	2.447	3.217		26.3	20.0	31.5*	30.0
Dibromofluoromethane (Surr)	Ave	0.2508	0.2499		49.8	50.0	-0.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0606	0.0608		50.1	50.0	0.3	30.0
Toluene-d8 (Surr)	Ave	1.267	1.289		50.9	50.0	1.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5005	0.5011		50.1	50.0	0.1	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X19.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 15-Jul-2024 20:42:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119345-020
 Misc. Info.: ICV LG
 Operator ID: knk41612 Instrument ID: 9915
 Sublist:
 Method: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 16-Jul-2024 20:47:58 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1659

First Level Reviewer: DVW2

Date: 16-Jul-2024 07:59:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.939	1.946	-0.007	99	189172	20.0	19.4	
4 Chloromethane	50	2.132	2.142	-0.010	99	198974	20.0	18.3	
6 Butadiene	39	2.239	2.245	-0.007	94	161238	20.0	15.5	
5 Vinyl chloride	62	2.245	2.255	-0.010	98	195908	20.0	18.4	
8 Bromomethane	94	2.573	2.589	-0.016	90	150725	20.0	18.2	
9 Chloroethane	64	2.634	2.653	-0.019	99	105139	20.0	18.9	
10 Dichlorofluoromethane	67	2.875	2.898	-0.023	97	284502	20.0	16.6	
11 Trichlorofluoromethane	101	2.956	2.975	-0.019	96	220934	20.0	17.3	
12 Pentane	43	2.972	2.991	-0.019	93	161494	20.0	18.2	
13 Ethyl ether	59	3.165	3.171	-0.006	91	85773	19.9	20.5	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.277	3.284	-0.007	95	143700	20.0	18.1	
16 Acrolein	56	3.325	3.332	-0.007	99	246461	150.3	145.1	
18 Acetone	58	3.489	3.489	0.000	100	178572	250.0	222.3	
17 1,1-Dichloroethene	96	3.502	3.512	-0.010	97	121383	20.0	20.7	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.515	3.528	-0.013	92	115424	20.0	17.1	
20 Isopropyl alcohol	45	3.663	3.666	-0.003	46	77182	150.0	134.6	
21 Iodomethane	142	3.685	3.705	-0.020	98	234410	20.0	19.0	
22 Carbon disulfide	76	3.801	3.805	-0.004	99	401287	20.0	18.7	
24 Methyl acetate	43	3.901	3.907	-0.006	96	97052	20.0	20.7	
25 3-Chloro-1-propene	41	3.923	3.936	-0.013	91	145556	20.0	17.8	
27 Methylene Chloride	84	4.129	4.145	-0.016	96	137555	20.0	19.4	
* 28 t-Butyl alcohol-d10 (IS)	65	4.177	4.181	-0.004	94	296030	250.0	250.0	
29 2-Methyl-2-propanol	59	4.338	4.313	0.025	34	215655	200.0	202.1	M
30 Acrylonitrile	53	4.425	4.438	-0.013	98	275211	100.0	102.0	
31 trans-1,2-Dichloroethene	96	4.518	4.528	-0.010	98	108191	20.0	19.7	
32 Methyl tert-butyl ether	73	4.547	4.557	-0.010	90	407039	20.0	19.0	
34 Hexane	57	4.952	4.972	-0.020	93	123186	20.0	18.2	
35 1,1-Dichloroethane	63	5.187	5.187	0.000	96	181603	20.0	20.4	
37 Isopropyl ether	45	5.254	5.271	-0.017	94	348191	20.0	19.0	
38 2-Chloro-1,3-butadiene	53	5.303	5.300	0.003	92	146898	20.0	19.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.798	5.808	-0.010	97	386378	20.0	19.8	
40 2-Butanone (MEK)	43	5.994	6.004	-0.010	100	888499	250.0	254.2	
42 cis-1,2-Dichloroethene	96	6.029	6.030	-0.001	78	118462	20.0	19.7	
43 2,2-Dichloropropane	77	6.068	6.058	0.010	88	198819	20.0	19.6	
45 Propionitrile	54	6.078	6.081	-0.003	95	182173	150.0	152.8	
46 Methyl acrylate	55	6.126	6.139	-0.013	99	140691	20.0	20.6	
47 Methacrylonitrile	67	6.296	6.296	0.000	91	442368	150.0	155.6	
48 Chlorobromomethane	128	6.357	6.354	0.003	87	61621	20.0	19.5	
49 Tetrahydrofuran	71	6.367	6.380	-0.013	87	102921	100.0	96.6	
50 Chloroform	83	6.512	6.515	-0.003	94	189500	20.0	19.0	
\$ 51 Dibromofluoromethane (Surr)	113	6.721	6.730	-0.009	93	279307	50.0	49.8	
52 1,1,1-Trichloroethane	97	6.746	6.759	-0.013	96	206101	20.0	20.2	
53 Cyclohexane	56	6.852	6.862	-0.010	91	211146	20.0	18.6	
55 1,1-Dichloropropene	75	6.955	6.959	-0.004	96	139682	20.0	19.5	
54 Carbon tetrachloride	117	6.962	6.965	-0.003	93	158064	20.0	19.4	
56 Isobutyl alcohol	41	7.123	7.126	-0.003	98	168099	500.0	445.3	
\$ 57 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.187	-0.010	91	67933	50.0	50.1	
58 Benzene	78	7.216	7.222	-0.006	96	436765	20.0	19.7	
59 1,2-Dichloroethane	62	7.280	7.293	-0.013	97	149541	20.0	19.9	
61 Tert-amyl methyl ether	73	7.415	7.428	-0.013	98	377125	20.0	19.8	
* 62 Fluorobenzene (IS)	96	7.627	7.631	-0.004	99	1117529	50.0	50.0	
63 n-Heptane	43	7.653	7.653	0.000	92	132854	20.0	18.5	
65 n-Butanol	56	8.004	8.010	-0.006	94	253654	1000.0	992.1	
66 Trichloroethene	95	8.110	8.110	0.000	99	112236	20.0	19.5	
67 Ethyl acrylate	55	8.225	8.226	-0.001	99	153039	20.0	19.6	
68 Methylcyclohexane	83	8.425	8.425	0.000	89	209540	20.0	18.6	
69 1,2-Dichloropropane	63	8.438	8.438	0.000	93	110386	20.0	20.1	
70 2-ethoxy-2-methyl butane	87	8.457	8.460	-0.003	93	165359	20.0	18.3	
71 Methyl methacrylate	69	8.528	8.528	0.000	92	84341	20.0	18.1	
72 1,4-Dioxane	88	8.534	8.531	0.003	34	39730	500.0	490.4	M
73 Dibromomethane	93	8.550	8.547	0.003	97	76337	20.0	19.0	
75 Dichlorobromomethane	83	8.788	8.788	0.000	99	136224	20.0	19.6	
76 2-Nitropropane	41	9.052	9.052	0.000	98	36981	20.0	17.9	
77 2-Chloroethyl vinyl ether	63	9.155	9.155	0.000	92	39070	20.0	19.0	
78 cis-1,3-Dichloropropene	75	9.341	9.345	-0.003	95	159737	20.0	18.6	
79 4-Methyl-2-pentanone (MIBK)	43	9.518	9.521	-0.003	97	2076209	250.0	252.3	
\$ 80 Toluene-d8 (Surr)	98	9.656	9.660	-0.004	93	1120383	50.0	50.9	
81 Toluene	92	9.737	9.737	0.000	98	272642	20.0	19.9	
120 trans-1,3-Dichloropropene	75	9.991	9.994	-0.003	94	148997	20.0	19.7	
121 Ethyl methacrylate	69	10.058	10.062	-0.004	89	166251	20.0	19.4	
122 1,1,2-Trichloroethane	97	10.196	10.200	-0.004	90	101199	20.0	19.9	
123 Tetrachloroethene	166	10.293	10.293	0.000	97	115583	20.0	20.0	
124 1,3-Dichloropropane	76	10.360	10.361	-0.001	91	160195	20.0	19.8	
125 2-Hexanone	43	10.418	10.418	0.000	97	1312777	250.0	253.6	
128 Chlorodibromomethane	129	10.576	10.579	-0.003	89	104597	20.0	19.5	
129 Ethylene Dibromide	107	10.688	10.689	0.000	98	107760	20.0	19.8	
* 130 Chlorobenzene-d5 (IS)	117	11.126	11.129	-0.003	85	869137	50.0	50.0	
132 1-Chlorohexane	91	11.138	11.139	-0.001	97	141201	20.0	18.6	
133 Chlorobenzene	112	11.155	11.155	0.000	95	306232	20.0	20.1	
134 1,1,1,2-Tetrachloroethane	131	11.235	11.235	0.000	95	124063	20.0	20.0	
135 Ethylbenzene	91	11.241	11.242	-0.001	98	559828	20.0	20.0	
136 m-Xylene & p-Xylene	106	11.357	11.357	0.000	99	435837	40.0	39.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
137 n-Butyl acrylate	55	11.637	11.637	0.000	97	268069	20.0	21.1	
138 o-Xylene	106	11.688	11.688	0.000	96	235647	20.0	20.0	
139 Styrene	104	11.701	11.701	0.000	94	359470	20.0	20.2	
140 Bromoform	173	11.855	11.856	-0.001	96	75194	20.0	19.1	
142 Isopropylbenzene	105	11.991	11.991	0.000	95	641990	20.0	21.7	
141 Cyclohexanone	55	12.061	12.061	0.000	92	142155	500.1	372.2	
\$ 143 4-Bromofluorobenzene (Surr)	95	12.132	12.132	0.000	90	435497	50.0	50.1	
145 1,1,2,2-Tetrachloroethane	83	12.232	12.232	0.000	94	184060	20.0	20.1	
146 Bromobenzene	156	12.248	12.248	0.000	95	141995	20.0	20.4	
147 trans-1,4-Dichloro-2-butene	53	12.257	12.258	-0.001	95	246963	100.0	105.0	
148 1,2,3-Trichloropropane	110	12.280	12.280	0.000	84	53254	20.0	19.5	
149 N-Propylbenzene	91	12.318	12.319	-0.001	99	705885	20.0	20.7	
150 2-Chlorotoluene	126	12.392	12.396	-0.004	97	143265	20.0	20.2	
151 1,3,5-Trimethylbenzene	105	12.454	12.457	-0.003	93	545644	20.0	20.2	
153 4-Chlorotoluene	126	12.486	12.486	0.000	97	135239	20.0	19.8	
154 tert-Butylbenzene	134	12.695	12.698	-0.003	93	99579	20.0	20.1	
156 1,2,4-Trimethylbenzene	105	12.740	12.740	0.000	97	554893	20.0	20.3	
157 sec-Butylbenzene	105	12.862	12.862	0.000	94	687719	20.0	20.3	
158 1,3-Dichlorobenzene	146	12.958	12.959	0.000	98	279373	20.0	20.2	
159 4-Isopropyltoluene	119	12.968	12.968	0.000	97	600458	20.0	20.1	
* 160 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	500986	50.0	50.0	
161 1,4-Dichlorobenzene	146	13.032	13.029	0.003	95	282948	20.0	20.1	
162 1,2,3-Trimethylbenzene	105	13.045	13.045	0.000	98	574019	20.0	19.5	
163 Benzyl chloride	91	13.106	13.106	0.000	98	350195	20.0	19.6	
164 1,3-Diethylbenzene	119	13.171	13.171	0.000	96	367121	20.0	21.0	
165 p-Diethylbenzene	119	13.241	13.241	0.000	94	385719	20.0	21.1	
166 n-Butylbenzene	92	13.261	13.261	0.000	97	302625	20.0	20.7	
167 1,2-Dichlorobenzene	146	13.293	13.293	0.000	99	300849	20.0	20.4	
168 o-diethylbenzene	119	13.312	13.312	0.000	95	294604	20.0	20.1	
170 1,2-Dibromo-3-Chloropropane	75	13.833	13.827	0.006	87	45029	20.0	18.8	
171 1,3,5-Trichlorobenzene	180	13.962	13.958	0.004	98	259953	20.0	21.9	
172 1,2,4-Trichlorobenzene	180	14.383	14.383	0.000	94	264381	20.0	22.0	
173 2-Ethylhexyl acrylate	55	14.441	14.441	0.000	81	295237	20.0	23.1	
174 Hexachlorobutadiene	225	14.470	14.466	0.004	98	114271	20.0	25.9	
175 Naphthalene	128	14.563	14.563	0.000	96	872600	20.0	21.0	
176 1,2,3-Trichlorobenzene	180	14.704	14.704	0.000	96	275579	20.0	21.9	
177 2-Methylnaphthalene	142	15.318	15.319	-0.001	92	644706	20.0	26.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00176	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00180	Amount Added: 50.00	Units: uL	
MSV_LCS_CYC_00009	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00179	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00207	Amount Added: 50.00	Units: uL	
MSV_LCS_EE_00009	Amount Added: 50.00	Units: uL	
MSV_LCS_OH_Sp_00015	Amount Added: 50.00	Units: uL	
MSV_HP23_ISSS_00014	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 16-Jul-2024 20:48:51

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X19.D

Injection Date: 15-Jul-2024 20:42:30

Instrument ID: 9915

Operator ID: knk41612

Lims ID: ICV

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

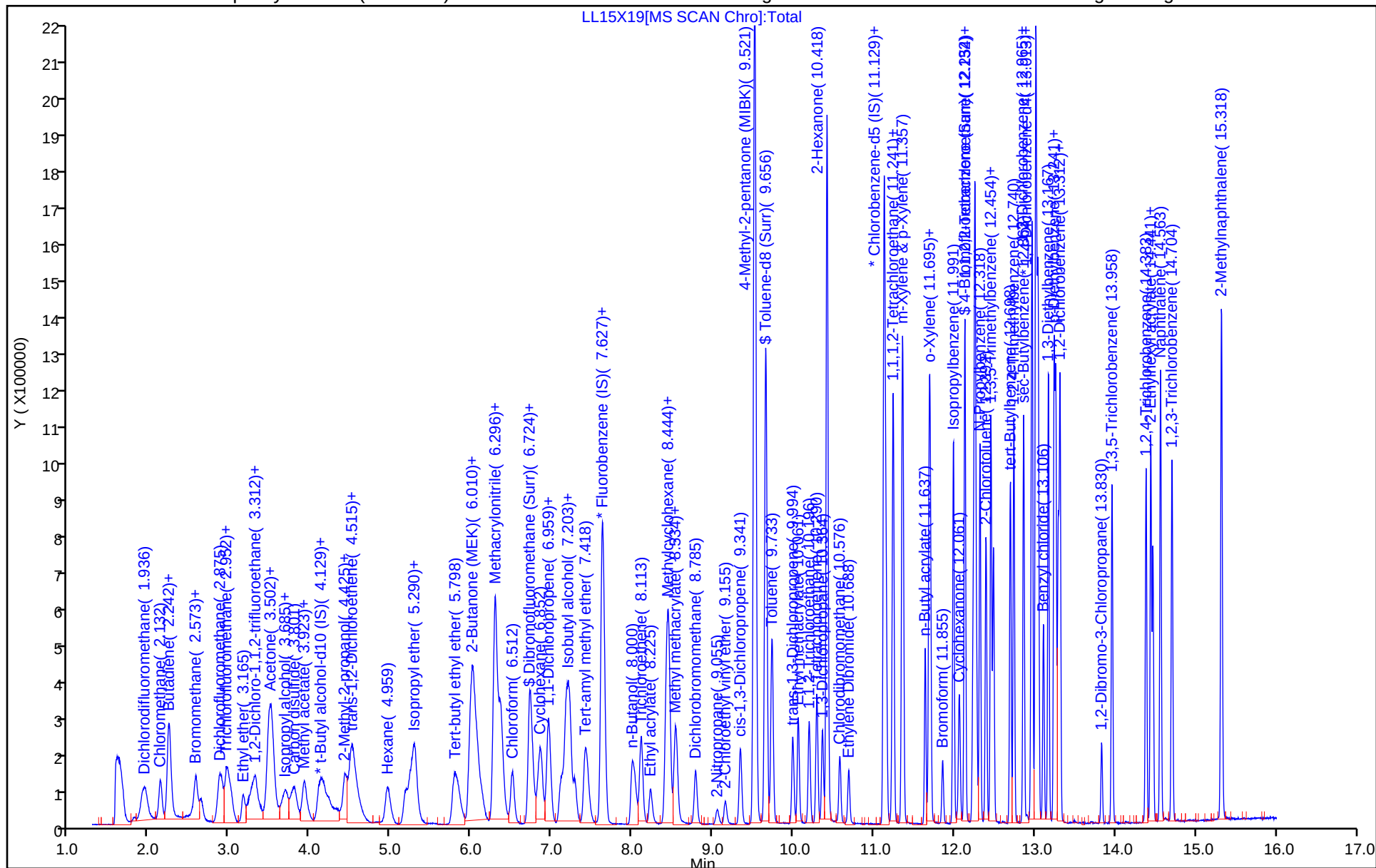
ALS Bottle#: 19

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

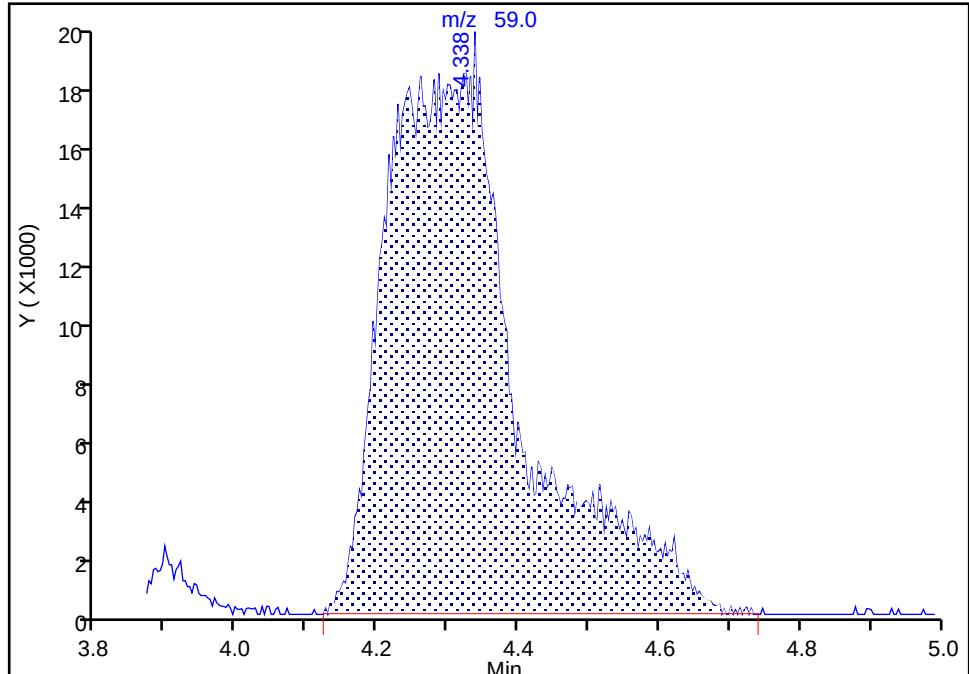
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Injection Date: 15-Jul-2024 20:42:30 Instrument ID: 9915
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

29 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

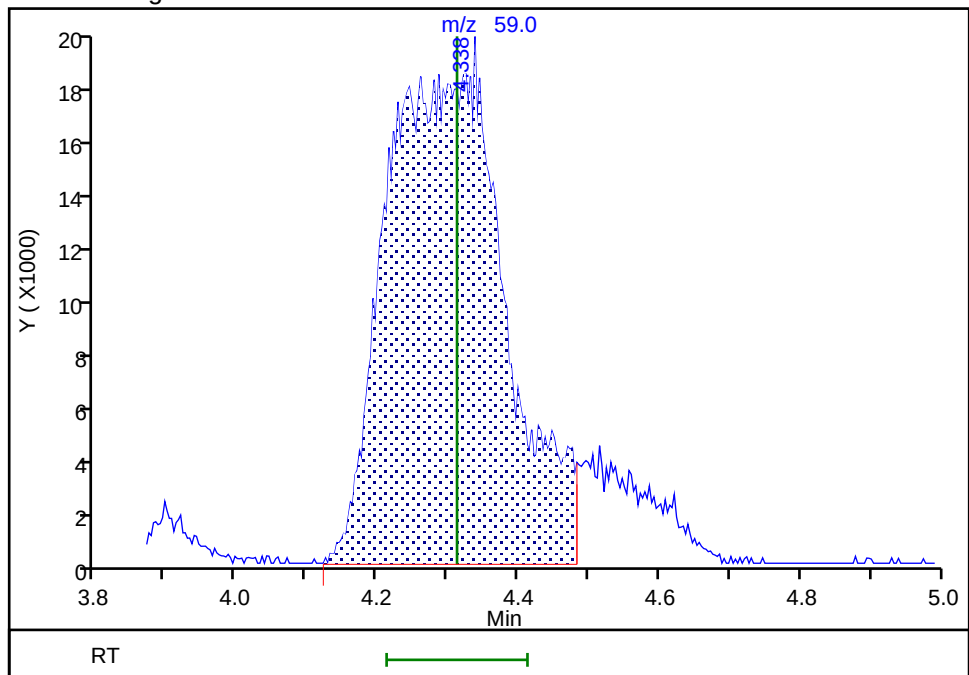
RT: 4.34
Area: 243068
Amount: 227.7536
Amount Units: ug/l

Processing Integration Results



RT: 4.34
Area: 215655
Amount: 202.0677
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:59:11 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

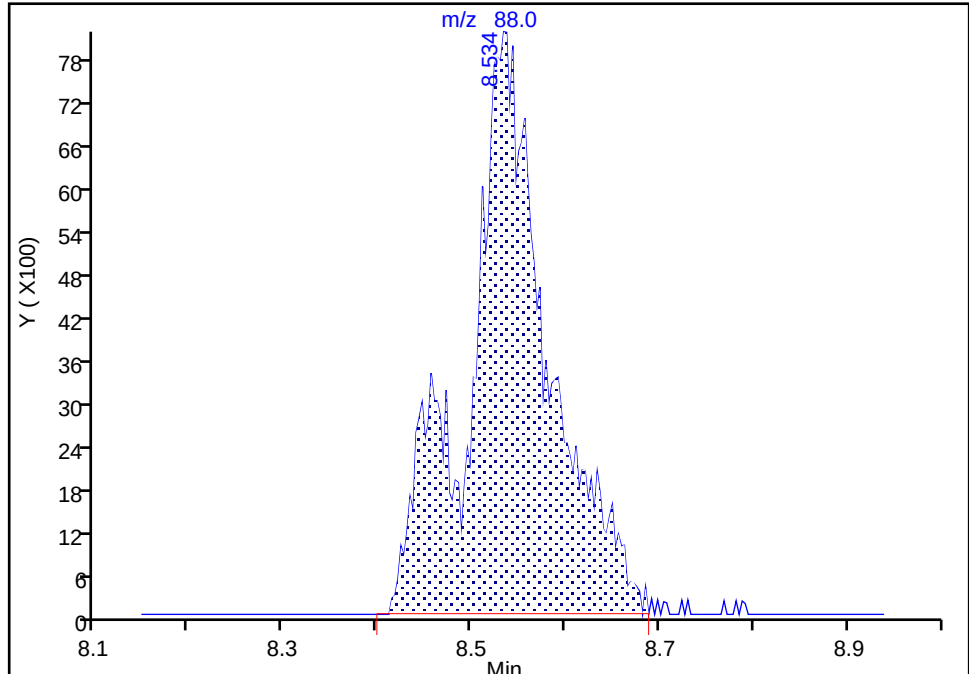
Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X19.D
Injection Date: 15-Jul-2024 20:42:30 Instrument ID: 9915
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

[72 1,4-Dioxane, CAS: 123-91-1](#)

Signal: 1

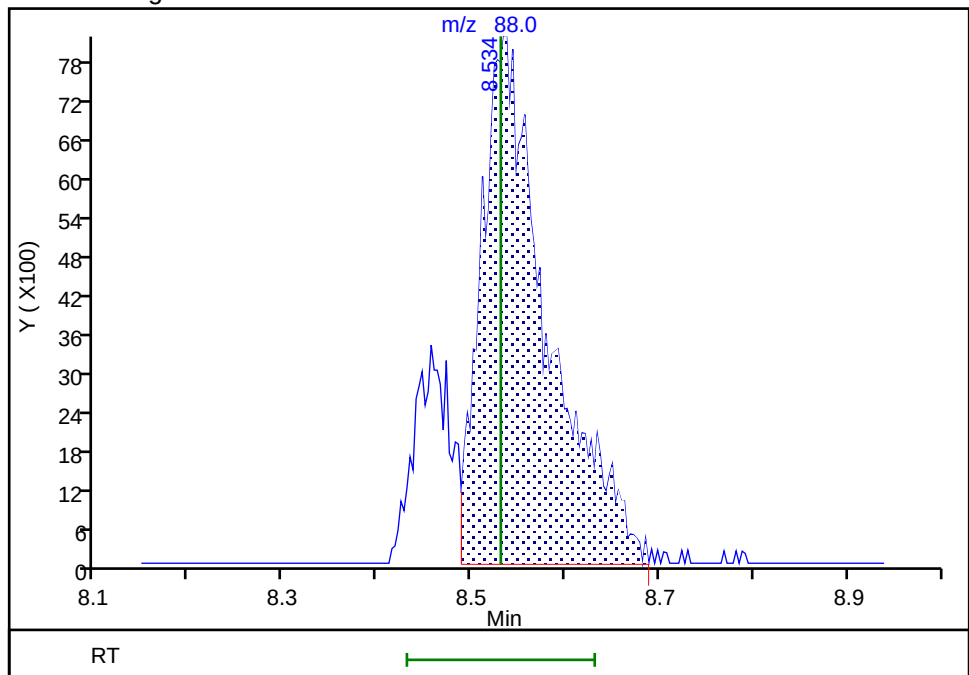
RT: 8.53
Area: 48348
Amount: 596.7351
Amount Units: ug/l

Processing Integration Results



RT: 8.53
Area: 39730
Amount: 490.3675
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 16-Jul-2024 07:59:26 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Lab Sample ID: CCVIS 410-560875/3

Calibration Date: 10/08/2024 20:49

Instrument ID: 9915

Calib Start Date: 07/15/2024 17:41

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 07/15/2024 19:57

Lab File ID: LC08X32.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.4369	0.4434	0.1000	50.8	50.0	1.5	20.0
Chloromethane	Ave	0.4865	0.5508	0.1000	56.6	50.0	13.2	20.0
1,3-Butadiene	Ave	0.4663	0.6833		73.3	50.0	46.5*	20.0
Vinyl chloride	Ave	0.4761	0.5011	0.1000	52.6	50.0	5.3	20.0
Bromomethane	Ave	0.3695	0.3711	0.1000	50.2	50.0	0.4	20.0
Chloroethane	Ave	0.2493	0.2643	0.1000	53.0	50.0	6.0	20.0
Dichlorofluoromethane	Ave	0.7671	0.7754		50.5	50.0	1.1	20.0
Trichlorofluoromethane	Ave	0.5729	0.5240	0.1000	45.7	50.0	-8.5	20.0
n-Pentane	Ave	0.3968	0.3454		43.5	50.0	-13.0	20.0
Freon 123a	Ave	0.3548	0.3440		48.5	50.0	-3.0	20.0
Acrolein	Ave	1.435	1.937		677	501	35.0*	20.0
1,1-Dichloroethene	Ave	0.2625	0.2017	0.1000	38.4	50.0	-23.1*	20.0
Acetone	Ave	0.6783	0.8700	0.1000	128	100	28.3*	20.0
Freon 113	Ave	0.3019	0.2640	0.1000	43.7	50.0	-12.5	20.0
2-Propanol	Ave	0.4842	0.6869		355	250	41.9*	20.0
Methyl iodide	Ave	0.5519	0.4470		40.5	50.0	-19.0	20.0
Carbon disulfide	Ave	0.9616	0.8717	0.1000	45.3	50.0	-9.3	20.0
Methyl acetate	Ave	0.2101	0.2444	0.1000	58.2	50.0	16.3	20.0
Allyl chloride	Ave	0.3662	0.3057		41.7	50.0	-16.5	20.0
Methylene Chloride	Ave	0.3180	0.2662	0.1000	41.9	50.0	-16.3	20.0
t-Butyl alcohol	Ave	0.9013	1.164		323	250	29.1*	20.0
Acrylonitrile	Ave	0.1207	0.1480		153	125	22.6*	20.0
Methyl tert-butyl ether	Ave	0.9582	0.8735	0.1000	45.6	50.0	-8.8	20.0
trans-1,2-Dichloroethene	Ave	0.2458	0.2118	0.1000	43.1	50.0	-13.8	20.0
n-Hexane	Ave	0.3020	0.2892		47.9	50.0	-4.3	20.0
1,1-Dichloroethane	Ave	0.3978	0.3834	0.2000	48.2	50.0	-3.6	20.0
Isopropyl ether	Ave	0.8214	0.7975		48.5	50.0	-2.9	20.0
2-Chloro-1,3-butadiene	Ave	0.3449	0.3109		45.1	50.0	-9.9	20.0
Ethyl t-butyl ether	Ave	0.8734	0.8222		47.1	50.0	-5.9	20.0
2-Butanone (MEK)	Ave	0.1564	0.1826	0.1000	117	100	16.8	20.0
cis-1,2-Dichloroethene	Ave	0.2693	0.2568	0.1000	47.7	50.0	-4.6	20.0
2,2-Dichloropropane	Ave	0.4537	0.3866		42.6	50.0	-14.8	20.0
Propionitrile	Ave	1.007	1.486		369	250	47.6*	20.0
Methacrylonitrile	Ave	0.1272	0.1512		149	125	18.9	20.0
Bromochloromethane	Ave	0.1414	0.1344		47.5	50.0	-5.0	20.0
Tetrahydrofuran	Ave	0.8994	1.212		337	250	34.8*	20.0
Chloroform	Ave	0.4459	0.3960	0.2000	44.4	50.0	-11.2	20.0
1,1,1-Trichloroethane	Ave	0.4567	0.3845	0.1000	42.1	50.0	-15.8	20.0
Cyclohexane	Ave	0.5071	0.4488	0.1000	44.3	50.0	-11.5	20.0
1,1-Dichloropropene	Ave	0.3204	0.2958		46.2	50.0	-7.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Lab Sample ID: CCVIS 410-560875/3

Calibration Date: 10/08/2024 20:49

Instrument ID: 9915

Calib Start Date: 07/15/2024 17:41

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 07/15/2024 19:57

Lab File ID: LC08X32.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.3646	0.3172	0.1000	43.5	50.0	-13.0	20.0
Isobutyl alcohol	Ave	0.3188	0.3764		738	625	18.1	20.0
Benzene	Ave	0.9920	0.9691	0.5000	48.8	50.0	-2.3	20.0
1,2-Dichloroethane	Ave	0.3355	0.3198	0.1000	47.7	50.0	-4.7	20.0
t-Amyl methyl ether	Ave	0.8534	0.7927		46.4	50.0	-7.1	20.0
n-Heptane	Ave	0.3218	0.3183		49.4	50.0	-1.1	20.0
n-Butanol	Ave	0.2159	0.2533		733	625	17.3	20.0
Trichloroethene	Ave	0.2573	0.2350	0.2000	45.7	50.0	-8.7	20.0
Methylcyclohexane	Ave	0.5053	0.4352	0.1000	43.1	50.0	-13.9	20.0
1,2-Dichloropropane	Ave	0.2459	0.2608	0.1000	53.0	50.0	6.0	20.0
t-Amyl ethyl ether	Ave	0.4048	0.3576		44.2	50.0	-11.6	20.0
Methyl methacrylate	Ave	0.2085	0.2162		51.8	50.0	3.7	20.0
1,4-Dioxane	Ave	0.0684	0.0889	0.0050	812	625	30.0*	20.0
Dibromomethane	Ave	0.1799	0.1761		48.9	50.0	-2.1	20.0
Bromodichloromethane	Ave	0.3117	0.3100	0.2000	49.7	50.0	-0.5	20.0
2-Nitropropane	Ave	1.745	2.178		312	250	24.8*	20.0
2-Chloroethyl vinyl ether	Ave	0.0920	0.1595		86.7	50.0	73.4*	20.0
cis-1,3-Dichloropropene	Ave	0.3850	0.3730	0.2000	48.4	50.0	-3.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3682	0.4239	0.1000	115	100	15.1	20.0
Toluene	Ave	0.7877	0.7950	0.4000	50.5	50.0	0.9	20.0
trans-1,3-Dichloropropene	Ave	0.4359	0.4570	0.1000	52.4	50.0	4.8	20.0
Ethyl methacrylate	Ave	0.4933	0.5362		54.3	50.0	8.7	20.0
1,1,2-Trichloroethane	Ave	0.2918	0.3247	0.1000	55.6	50.0	11.3	20.0
Tetrachloroethene	Ave	0.3328	0.3287	0.2000	49.4	50.0	-1.2	20.0
1,3-Dichloropropane	Ave	0.4649	0.5324		57.3	50.0	14.5	20.0
2-Hexanone	Ave	0.2978	0.3679	0.1000	124	100	23.5*	20.0
Dibromochloromethane	Ave	0.3090	0.3567		57.7	50.0	15.4	20.0
1,2-Dibromoethane (EDB)	Ave	0.3135	0.3472	0.1000	55.4	50.0	10.8	20.0
1-Chlorohexane	Ave	0.4362	0.3809		43.7	50.0	-12.7	20.0
Chlorobenzene	Ave	0.8743	0.9021	0.5000	51.6	50.0	3.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3565	0.3712		52.1	50.0	4.1	20.0
Ethylbenzene	Ave	1.610	1.595	0.1000	49.6	50.0	-0.9	20.0
m&p-Xylene	Ave	0.6281	0.6223	0.1000	99.1	100	-0.9	20.0
o-Xylene	Ave	0.6774	0.6555	0.3000	48.4	50.0	-3.2	20.0
Styrene	Ave	1.023	1.006	0.3000	49.2	50.0	-1.7	20.0
Bromoform	Ave	0.2271	0.2563	0.1000	56.4	50.0	12.9	20.0
Isopropylbenzene	Ave	1.705	1.569	0.1000	46.0	50.0	-8.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9129	1.070	0.3000	58.6	50.0	17.2	20.0
Bromobenzene	Ave	0.6934	0.7205		52.0	50.0	3.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2347	0.0662		35.3	125	-71.8*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Lab Sample ID: CCVIS 410-560875/3

Calibration Date: 10/08/2024 20:49

Instrument ID: 9915

Calib Start Date: 07/15/2024 17:41

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 07/15/2024 19:57

Lab File ID: LC08X32.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.2723	0.3051		56.0	50.0	12.0	20.0
N-Propylbenzene	Ave	3.405	3.476		51.1	50.0	2.1	20.0
2-Chlorotoluene	Ave	0.7088	0.7174		50.6	50.0	1.2	20.0
1,3,5-Trimethylbenzene	Ave	2.689	2.729		50.7	50.0	1.5	20.0
4-Chlorotoluene	Ave	0.6813	0.6840		50.2	50.0	0.4	20.0
tert-Butylbenzene	Ave	0.4933	0.5318		53.9	50.0	7.8	20.0
1,2,4-Trimethylbenzene	Ave	2.727	2.779		51.0	50.0	1.9	20.0
sec-Butylbenzene	Ave	3.380	3.609		53.4	50.0	6.8	20.0
1,3-Dichlorobenzene	Ave	1.379	1.421	0.6000	51.5	50.0	3.1	20.0
p-Isopropyltoluene	Ave	2.981	3.090		51.8	50.0	3.6	20.0
1,4-Dichlorobenzene	Ave	1.405	1.457	0.5000	51.9	50.0	3.7	20.0
1,2,3-Trimethylbenzene	Ave	2.943	3.109		52.8	50.0	5.7	20.0
Benzyl chloride	Ave	1.782	2.025		56.8	50.0	13.6	20.0
1,3-Diethylbenzene	Ave	1.748	1.753		50.1	50.0	0.3	20.0
1,4-Diethylbenzene	Ave	1.826	1.845		50.5	50.0	1.0	20.0
n-Butylbenzene	Ave	1.459	1.523		52.2	50.0	4.4	20.0
1,2-Dichlorobenzene	Ave	1.473	1.560	0.4000	53.0	50.0	6.0	20.0
1,2-Diethylbenzene	Ave	1.464	1.583		54.1	50.0	8.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2386	0.2548	0.0500	53.4	50.0	6.8	20.0
1,3,5-Trichlorobenzene	Ave	1.187	1.248		52.6	50.0	5.2	20.0
1,2,4-Trichlorobenzene	Ave	1.199	1.245	0.2000	51.9	50.0	3.8	20.0
Hexachlorobutadiene	Ave	0.4404	0.4277		48.6	50.0	-2.9	20.0
Naphthalene	Ave	4.148	4.020		48.5	50.0	-3.1	20.0
1,2,3-Trichlorobenzene	Ave	1.254	1.196		47.7	50.0	-4.7	20.0
2-Methylnaphthalene	Ave	2.447	1.103		22.5	50.0	-54.9*	20.0
Dibromofluoromethane (Surr)	Ave	0.2508	0.2358		47.0	50.0	-6.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0606	0.0572		47.2	50.0	-5.5	20.0
Toluene-d8 (Surr)	Ave	1.267	1.328		52.4	50.0	4.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5005	0.4632		46.3	50.0	-7.5	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X32.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 08-Oct-2024 20:49:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-003
 Misc. Info.: CCVIS
 Operator ID: gaw91131 Instrument ID: 9915
 Sublist: chrom-MSVoa_9915a*sub55
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Oct-2024 22:43:39 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: JS6E

Date: 08-Oct-2024 21:32:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.933	1.933	0.000	99	489956	50.0	50.8	
5 Chloromethane	50	2.129	2.129	0.000	99	608536	50.0	56.6	
6 Butadiene	39	2.232	2.232	0.000	92	754939	50.0	73.3	
7 Vinyl chloride	62	2.245	2.245	0.000	98	553662	50.0	52.6	
9 Bromomethane	94	2.579	2.579	0.000	91	410004	50.0	50.2	
10 Chloroethane	64	2.641	2.641	0.000	99	292055	50.0	53.0	
11 Dichlorofluoromethane	67	2.882	2.882	0.000	97	856724	50.0	50.5	
12 Trichlorofluoromethane	101	2.952	2.952	0.000	91	578956	50.0	45.7	M
13 Pentane	43	2.959	2.959	0.000	96	381627	50.0	43.5	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.264	3.264	0.000	89	380130	50.0	48.5	
17 Acrolein	56	3.316	3.316	0.000	99	931075	501.1	676.6	
18 1,1-Dichloroethene	96	3.464	3.464	0.000	98	222886	50.0	38.4	
19 Acetone	58	3.480	3.480	0.000	100	83459	100.0	128.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.515	3.515	0.000	93	291668	50.0	43.7	
21 Isopropyl alcohol	45	3.653	3.653	0.000	37	164736	250.0	354.7	
22 Iodomethane	142	3.653	3.653	0.000	98	493864	50.0	40.5	
23 Carbon disulfide	76	3.756	3.756	0.000	99	963178	50.0	45.3	
25 Methyl acetate	43	3.898	3.898	0.000	97	270084	50.0	58.2	
26 3-Chloro-1-propene	41	3.920	3.920	0.000	93	337709	50.0	41.7	
27 Methylene Chloride	84	4.100	4.100	0.000	92	294107	50.0	41.9	
* 28 t-Butyl alcohol-d10 (IS)	65	4.139	4.139	0.000	93	239817	250.0	250.0	
29 2-Methyl-2-propanol	59	4.235	4.235	0.000	98	279119	250.0	322.8	
30 Acrylonitrile	53	4.419	4.419	0.000	100	408698	125.0	153.3	
31 Methyl tert-butyl ether	73	4.499	4.499	0.000	93	965065	50.0	45.6	
32 trans-1,2-Dichloroethene	96	4.505	4.505	0.000	100	233987	50.0	43.1	
35 Hexane	57	4.956	4.956	0.000	90	319484	50.0	47.9	
36 1,1-Dichloroethane	63	5.171	5.171	0.000	96	423618	50.0	48.2	
38 Isopropyl ether	45	5.239	5.239	0.000	94	881127	50.0	48.5	
39 2-Chloro-1,3-butadiene	53	5.296	5.296	0.000	91	343473	50.0	45.1	
40 Tert-butyl ethyl ether	59	5.782	5.782	0.000	98	908474	50.0	47.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.988	5.988	0.000	99	403493	100.0	116.8	
42 cis-1,2-Dichloroethene	96	6.013	6.013	0.000	80	283746	50.0	47.7	
43 2,2-Dichloropropane	77	6.042	6.042	0.000	89	427101	50.0	42.6	
46 Propionitrile	54	6.074	6.074	0.000	98	356350	250.0	369.0	
48 Methacrylonitrile	67	6.287	6.287	0.000	92	417614	125.0	148.6	
49 Chlorobromomethane	128	6.348	6.348	0.000	95	148524	50.0	47.5	
50 Tetrahydrofuran	71	6.367	6.367	0.000	92	290762	250.0	337.0	
51 Chloroform	83	6.502	6.502	0.000	94	437570	50.0	44.4	
\$ 52 Dibromofluoromethane (Surr)	113	6.718	6.718	0.000	93	260551	50.0	47.0	
53 1,1,1-Trichloroethane	97	6.737	6.737	0.000	99	424868	50.0	42.1	
54 Cyclohexane	56	6.846	6.846	0.000	91	495884	50.0	44.3	
56 1,1-Dichloropropene	75	6.952	6.952	0.000	96	326791	50.0	46.2	
55 Carbon tetrachloride	117	6.952	6.952	0.000	77	350486	50.0	43.5	
57 Isobutyl alcohol	41	7.113	7.113	0.000	94	225669	625.0	737.9	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.171	7.171	0.000	93	63247	50.0	47.2	
59 Benzene	78	7.216	7.216	0.000	95	1070705	50.0	48.8	
60 1,2-Dichloroethane	62	7.280	7.280	0.000	97	353361	50.0	47.7	
62 Tert-amyl methyl ether	73	7.412	7.412	0.000	98	875824	50.0	46.4	
* 63 Fluorobenzene (IS)	96	7.621	7.621	0.000	99	1104880	50.0	50.0	
64 n-Heptane	43	7.647	7.647	0.000	94	351679	50.0	49.4	
66 n-Butanol	56	8.007	8.007	0.000	91	151863	625.0	733.2	
67 Trichloroethene	95	8.103	8.103	0.000	99	259635	50.0	45.7	
69 Methylcyclohexane	83	8.418	8.418	0.000	91	480823	50.0	43.1	
70 1,2-Dichloropropane	63	8.431	8.431	0.000	95	288120	50.0	53.0	
71 2-ethoxy-2-methyl butane	87	8.447	8.447	0.000	90	395134	50.0	44.2	
72 Methyl methacrylate	69	8.528	8.528	0.000	91	238841	50.0	51.8	
73 1,4-Dioxane	88	8.534	8.534	0.000	30	53311	625.0	812.2	M
74 Dibromomethane	93	8.541	8.541	0.000	96	194547	50.0	48.9	
76 Dichlorobromomethane	83	8.779	8.779	0.000	99	342500	50.0	49.7	
77 2-Nitropropane	41	9.049	9.049	0.000	98	522239	250.0	311.9	
78 2-Chloroethyl vinyl ether	63	9.152	9.152	0.000	91	176219	50.0	86.7	
79 cis-1,3-Dichloropropene	75	9.338	9.338	0.000	96	412138	50.0	48.4	
80 4-Methyl-2-pentanone (MIBK)	43	9.515	9.515	0.000	97	936783	100.0	115.1	
\$ 82 Toluene-d8 (Surr)	98	9.653	9.653	0.000	93	1084881	50.0	52.4	
90 Toluene	92	9.727	9.727	0.000	98	649708	50.0	50.5	
95 trans-1,3-Dichloropropene	75	9.988	9.988	0.000	92	373434	50.0	52.4	
114 Ethyl methacrylate	69	10.055	10.055	0.000	90	438149	50.0	54.3	
117 1,1,2-Trichloroethane	97	10.193	10.193	0.000	90	265385	50.0	55.6	
118 Tetrachloroethene	166	10.290	10.290	0.000	98	268637	50.0	49.4	
119 1,3-Dichloropropane	76	10.357	10.357	0.000	91	435044	50.0	57.3	
121 2-Hexanone	43	10.415	10.415	0.000	97	601295	100.0	123.5	
123 Chlorodibromomethane	129	10.573	10.573	0.000	90	291504	50.0	57.7	
124 Ethylene Dibromide	107	10.682	10.682	0.000	99	283734	50.0	55.4	
* 125 Chlorobenzene-d5 (IS)	117	11.123	11.123	0.000	86	817209	50.0	50.0	
127 1-Chlorohexane	91	11.135	11.135	0.000	97	311288	50.0	43.7	
128 Chlorobenzene	112	11.151	11.151	0.000	95	737213	50.0	51.6	
131 1,1,1,2-Tetrachloroethane	131	11.229	11.229	0.000	95	303346	50.0	52.1	
132 Ethylbenzene	91	11.238	11.238	0.000	98	1303846	50.0	49.6	
134 m-Xylene & p-Xylene	106	11.354	11.354	0.000	100	1017037	100.0	99.1	
136 o-Xylene	106	11.685	11.685	0.000	96	535682	50.0	48.4	
137 Styrene	104	11.698	11.698	0.000	95	822278	50.0	49.2	
138 Bromoform	173	11.852	11.852	0.000	96	209424	50.0	56.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
139 Isopropylbenzene	105	11.987	11.987	0.000	95	1282320	50.0	46.0	
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	90	378537	50.0	46.3	
145 1,1,2,2-Tetrachloroethane	83	12.229	12.229	0.000	94	495358	50.0	58.6	
146 Bromobenzene	156	12.245	12.245	0.000	92	333464	50.0	52.0	
147 trans-1,4-Dichloro-2-butene	53	12.254	12.254	0.000	76	76651	125.0	35.3	
148 1,2,3-Trichloropropane	110	12.274	12.274	0.000	84	141194	50.0	56.0	
149 N-Propylbenzene	91	12.315	12.315	0.000	99	1609093	50.0	51.1	
150 2-Chlorotoluene	126	12.389	12.389	0.000	97	332063	50.0	50.6	
151 1,3,5-Trimethylbenzene	105	12.454	12.454	0.000	94	1263229	50.0	50.7	
152 4-Chlorotoluene	126	12.483	12.483	0.000	97	316597	50.0	50.2	
154 tert-Butylbenzene	134	12.695	12.695	0.000	93	246141	50.0	53.9	
156 1,2,4-Trimethylbenzene	105	12.737	12.737	0.000	97	1286345	50.0	51.0	
157 sec-Butylbenzene	105	12.859	12.859	0.000	94	1670523	50.0	53.4	
158 1,3-Dichlorobenzene	146	12.955	12.955	0.000	98	657932	50.0	51.5	
159 4-Isopropyltoluene	119	12.965	12.965	0.000	97	1430111	50.0	51.8	
* 161 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	93	462850	50.0	50.0	
162 1,4-Dichlorobenzene	146	13.029	13.029	0.000	95	674474	50.0	51.9	
163 1,2,3-Trimethylbenzene	105	13.039	13.039	0.000	98	1439097	50.0	52.8	
164 Benzyl chloride	91	13.106	13.106	0.000	98	937165	50.0	56.8	
165 1,3-Diethylbenzene	119	13.167	13.167	0.000	96	811471	50.0	50.1	
166 p-Diethylbenzene	119	13.238	13.238	0.000	94	853890	50.0	50.5	
167 n-Butylbenzene	92	13.257	13.257	0.000	97	705090	50.0	52.2	
168 1,2-Dichlorobenzene	146	13.286	13.286	0.000	99	722272	50.0	53.0	
169 o-diethylbenzene	119	13.309	13.309	0.000	96	732722	50.0	54.1	
171 1,2-Dibromo-3-Chloropropane	75	13.827	13.827	0.000	86	117943	50.0	53.4	
172 1,3,5-Trichlorobenzene	180	13.958	13.958	0.000	98	577512	50.0	52.6	
173 1,2,4-Trichlorobenzene	180	14.380	14.380	0.000	94	576235	50.0	51.9	
175 Hexachlorobutadiene	225	14.466	14.466	0.000	98	197955	50.0	48.6	
176 Naphthalene	128	14.560	14.560	0.000	97	1860502	50.0	48.5	
177 1,2,3-Trichlorobenzene	180	14.704	14.704	0.000	95	553455	50.0	47.7	
178 2-Methylnaphthalene	142	15.318	15.318	0.000	92	510350	50.0	22.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00204	Amount Added: 5.00	Units: uL	
MSV_CCV_2CEVE_00196	Amount Added: 5.00	Units: uL	
MSV_CCV_VOC#3_00201	Amount Added: 4.00	Units: uL	
MSV_CCV_GASES_00869	Amount Added: 2.50	Units: uL	
MSV_HP23_ISSS_00014	Amount Added: 1.00	Units: uL	Run Reagent

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X32.D

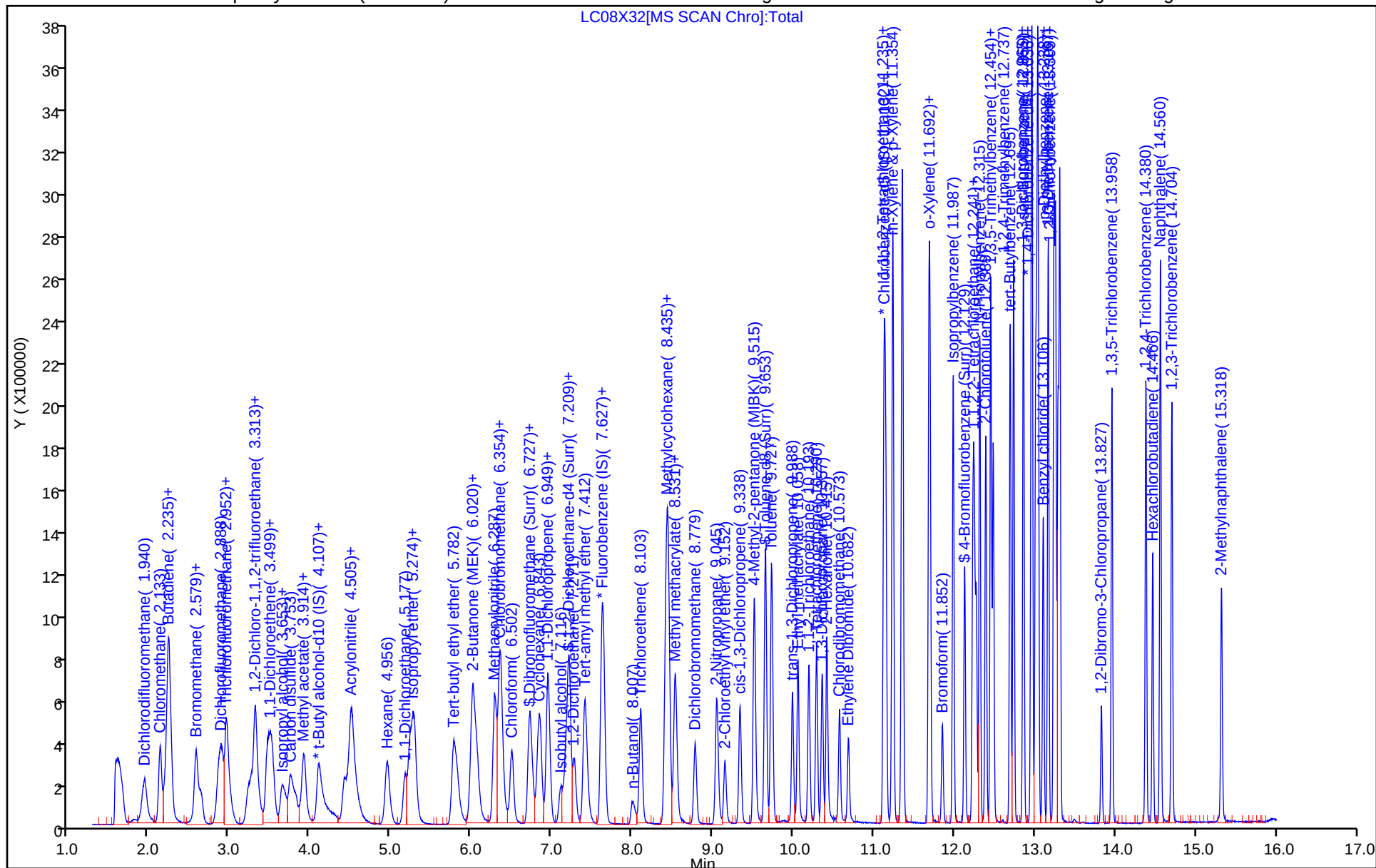
Operator ID: qaw91131

Worklist Smp#: 3

ALS Bottle#: 2

Limit Group: MSV - 8260C D

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

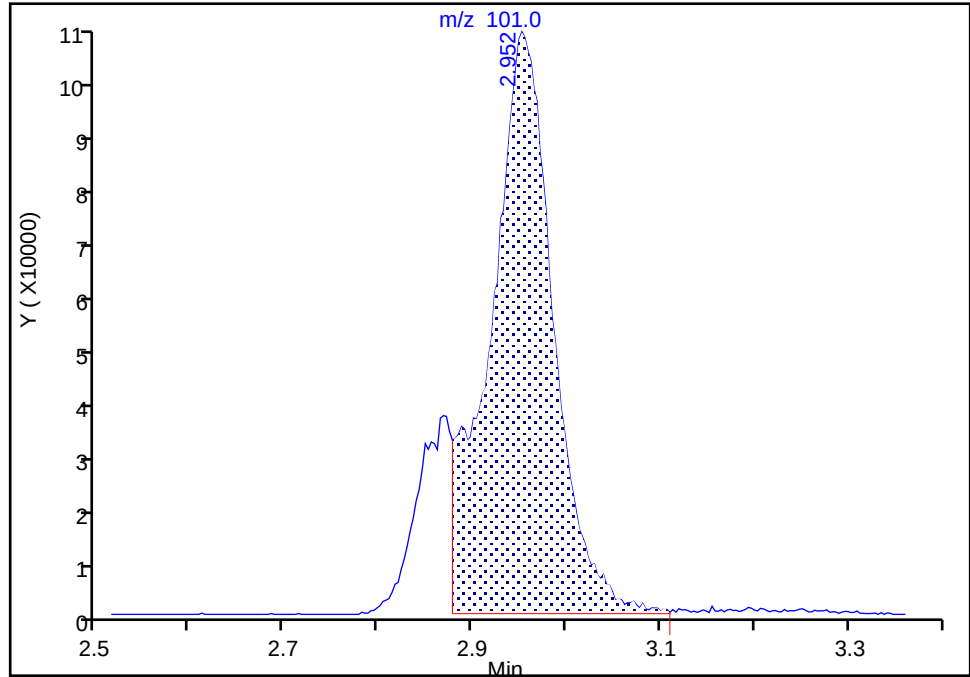
Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X32.D
Injection Date: 08-Oct-2024 20:49:30 Instrument ID: 9915
Lims ID: CCVIS
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

12 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

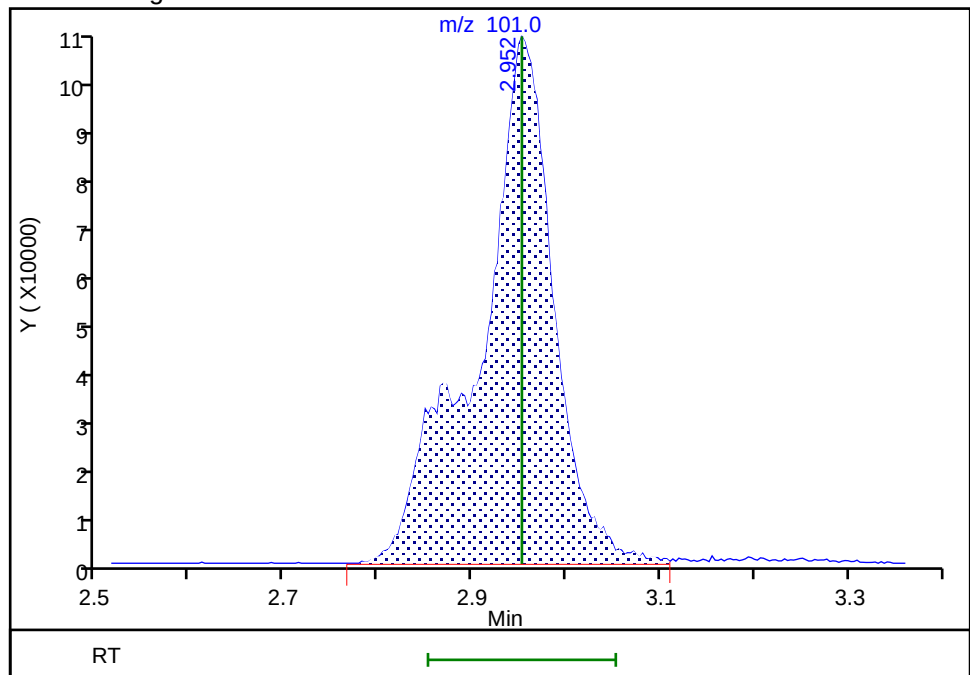
RT: 2.95
Area: 492628
Amount: 38.915964
Amount Units: ug/l

Processing Integration Results



RT: 2.95
Area: 578956
Amount: 45.735587
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 08-Oct-2024 21:21:58 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

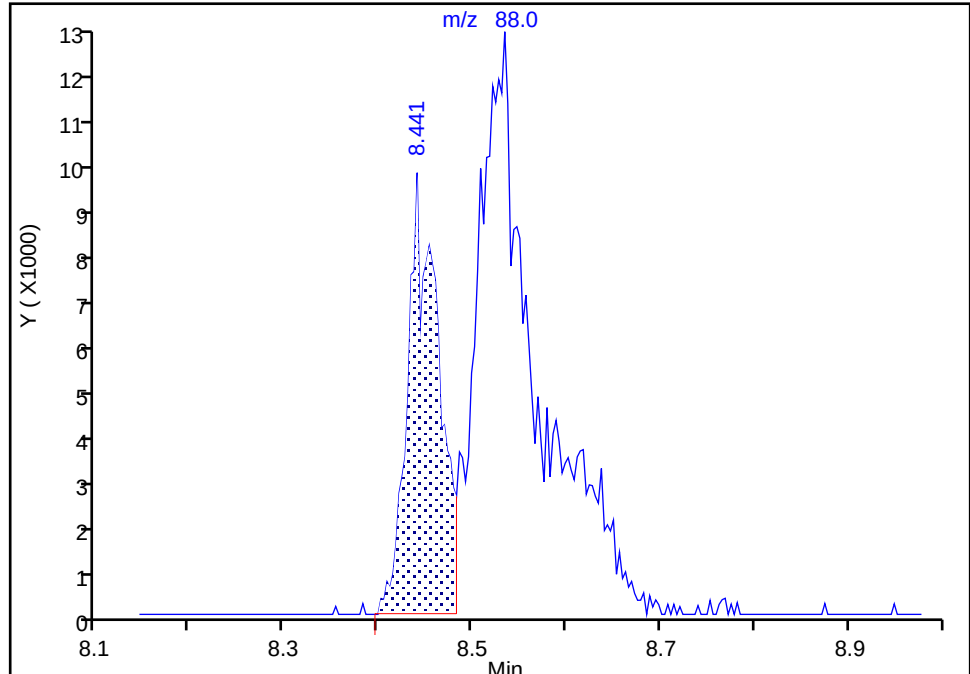
Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X32.D
Injection Date: 08-Oct-2024 20:49:30 Instrument ID: 9915
Lims ID: CCVIS
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

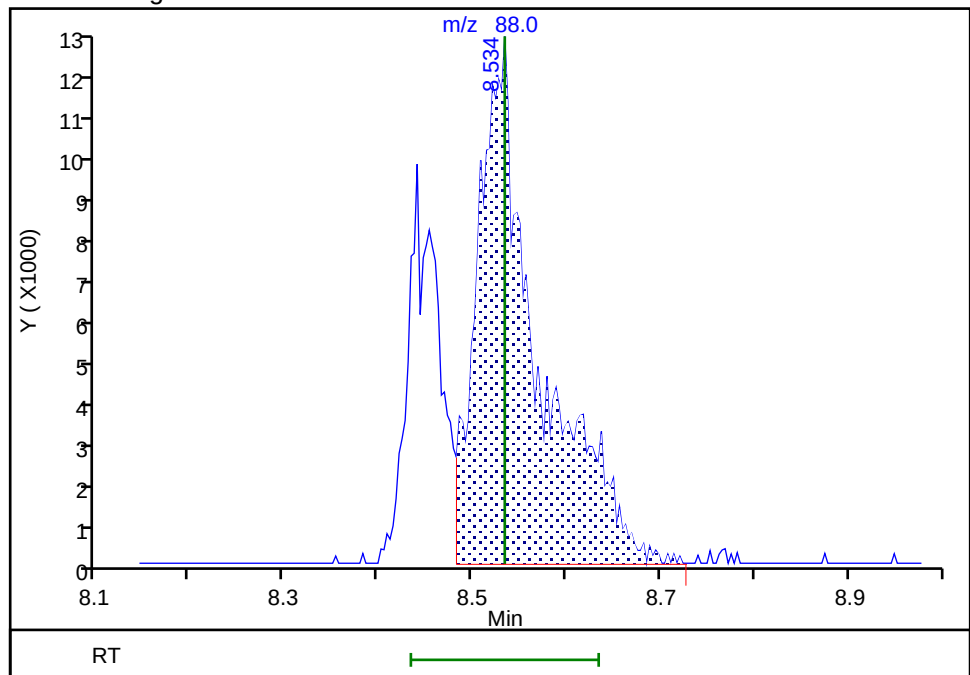
RT: 8.44
Area: 20719
Amount: 315.6659
Amount Units: ug/l

Processing Integration Results



RT: 8.53
Area: 53311
Amount: 812.2238
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 08-Oct-2024 21:23:05 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Wrong peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Lab Sample ID: CCVIS 410-560989/6

Calibration Date: 10/09/2024 10:03

Instrument ID: 9915

Calib Start Date: 07/15/2024 17:41

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 07/15/2024 19:57

Lab File ID: LC09X05.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.4369	0.3545	0.1000	40.6	50.0	-18.9	20.0
Chloromethane	Ave	0.4865	0.4396	0.1000	45.2	50.0	-9.7	20.0
1,3-Butadiene	Ave	0.4663	0.5702		61.1	50.0	22.3*	20.0
Vinyl chloride	Ave	0.4761	0.3865	0.1000	40.6	50.0	-18.8	20.0
Bromomethane	Ave	0.3695	0.2817	0.1000	38.1	50.0	-23.8*	20.0
Chloroethane	Ave	0.2493	0.2058	0.1000	41.3	50.0	-17.5	20.0
Dichlorofluoromethane	Ave	0.7671	0.5990		39.0	50.0	-21.9*	20.0
Trichlorofluoromethane	Ave	0.5729	0.4058	0.1000	35.4	50.0	-29.2*	20.0
n-Pentane	Ave	0.3968	0.3859		48.6	50.0	-2.8	20.0
Ethyl ether	Ave	0.1873	0.1424		38.0	50.0	-24.0*	20.0
Freon 123a	Ave	0.3548	0.2718		38.3	50.0	-23.4*	20.0
Acrolein	Ave	1.435	1.735		606	501	20.9*	20.0
1,1-Dichloroethene	Ave	0.2625	0.2124	0.1000	40.5	50.0	-19.1	20.0
Acetone	Ave	0.6783	0.8018	0.1000	118	100	18.2	20.0
Freon 113	Ave	0.3019	0.2753	0.1000	45.6	50.0	-8.8	20.0
2-Propanol	Ave	0.4842	0.4850		250	250	0.2	20.0
Methyl iodide	Ave	0.5519	0.4655		42.2	50.0	-15.7	20.0
Carbon disulfide	Ave	0.9616	0.9420	0.1000	49.0	50.0	-2.0	20.0
Methyl acetate	Ave	0.2101	0.2315	0.1000	55.1	50.0	10.2	20.0
Allyl chloride	Ave	0.3662	0.3347		45.7	50.0	-8.6	20.0
Methylene Chloride	Ave	0.3180	0.2662	0.1000	41.9	50.0	-16.3	20.0
t-Butyl alcohol	Ave	0.9013	0.9119		253	250	1.2	20.0
Acrylonitrile	Ave	0.1207	0.1299		135	125	7.6	20.0
Methyl tert-butyl ether	Ave	0.9582	0.8389	0.1000	43.8	50.0	-12.5	20.0
trans-1,2-Dichloroethene	Ave	0.2458	0.2183	0.1000	44.4	50.0	-11.2	20.0
n-Hexane	Ave	0.3020	0.3152		52.2	50.0	4.4	20.0
1,1-Dichloroethane	Ave	0.3978	0.3946	0.2000	49.6	50.0	-0.8	20.0
Isopropyl ether	Ave	0.8214	0.8015		48.8	50.0	-2.4	20.0
2-Chloro-1,3-butadiene	Ave	0.3449	0.3282		47.6	50.0	-4.8	20.0
Ethyl t-butyl ether	Ave	0.8734	0.8075		46.2	50.0	-7.5	20.0
2-Butanone (MEK)	Ave	0.1564	0.1606	0.1000	103	100	2.7	20.0
cis-1,2-Dichloroethene	Ave	0.2693	0.2601	0.1000	48.3	50.0	-3.4	20.0
2,2-Dichloropropane	Ave	0.4537	0.4026		44.4	50.0	-11.3	20.0
Propionitrile	Ave	1.007	1.338		332	250	32.9*	20.0
Methacrylonitrile	Ave	0.1272	0.1375		135	125	8.1	20.0
Bromochloromethane	Ave	0.1414	0.1324		46.8	50.0	-6.4	20.0
Tetrahydrofuran	Ave	0.8994	1.104		307	250	22.8*	20.0
Chloroform	Ave	0.4459	0.4020	0.2000	45.1	50.0	-9.8	20.0
1,1,1-Trichloroethane	Ave	0.4567	0.3911	0.1000	42.8	50.0	-14.4	20.0
Cyclohexane	Ave	0.5071	0.4708	0.1000	46.4	50.0	-7.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.: _____

Lab Sample ID: CCVIS 410-560989/6

Calibration Date: 10/09/2024 10:03

Instrument ID: 9915

Calib Start Date: 07/15/2024 17:41

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 07/15/2024 19:57

Lab File ID: LC09X05.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.3646	0.3275	0.1000	44.9	50.0	-10.2	20.0
1,1-Dichloropropene	Ave	0.3204	0.3171		49.5	50.0	-1.1	20.0
Isobutyl alcohol	Ave	0.3188	0.3256		638	625	2.1	20.0
Benzene	Ave	0.9920	0.9903	0.5000	49.9	50.0	-0.2	20.0
1,2-Dichloroethane	Ave	0.3355	0.3212	0.1000	47.9	50.0	-4.3	20.0
t-Amyl methyl ether	Ave	0.8534	0.7685		45.0	50.0	-9.9	20.0
n-Heptane	Ave	0.3218	0.3423		53.2	50.0	6.4	20.0
n-Butanol	Ave	0.2159	0.2267		656	625	5.0	20.0
Trichloroethene	Ave	0.2573	0.2449	0.2000	47.6	50.0	-4.8	20.0
Methylcyclohexane	Ave	0.5053	0.4591	0.1000	45.4	50.0	-9.1	20.0
1,2-Dichloropropane	Ave	0.2459	0.2636	0.1000	53.6	50.0	7.2	20.0
t-Amyl ethyl ether	Ave	0.4048	0.3519		43.5	50.0	-13.1	20.0
Methyl methacrylate	Ave	0.2085	0.1984		47.6	50.0	-4.9	20.0
1,4-Dioxane	Ave	0.0684	0.0762	0.0050	696	625	11.4	20.0
Dibromomethane	Ave	0.1799	0.1728		48.0	50.0	-3.9	20.0
Bromodichloromethane	Ave	0.3117	0.3112	0.2000	49.9	50.0	-0.1	20.0
2-Nitropropane	Ave	1.745	2.053		294	250	17.6	20.0
2-Chloroethyl vinyl ether	Ave	0.0920	0.1513		82.3	50.0	64.5*	20.0
cis-1,3-Dichloropropene	Ave	0.3850	0.3833	0.2000	49.8	50.0	-0.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3682	0.3841	0.1000	104	100	4.3	20.0
Toluene	Ave	0.7877	0.8152	0.4000	51.7	50.0	3.5	20.0
trans-1,3-Dichloropropene	Ave	0.4359	0.4604	0.1000	52.8	50.0	5.6	20.0
Ethyl methacrylate	Ave	0.4933	0.5120		51.9	50.0	3.8	20.0
1,1,2-Trichloroethane	Ave	0.2918	0.3138	0.1000	53.8	50.0	7.5	20.0
Tetrachloroethene	Ave	0.3328	0.3364	0.2000	50.5	50.0	1.1	20.0
1,3-Dichloropropane	Ave	0.4649	0.5188		55.8	50.0	11.6	20.0
2-Hexanone	Ave	0.2978	0.3325	0.1000	112	100	11.7	20.0
Dibromochloromethane	Ave	0.3090	0.3482		56.3	50.0	12.7	20.0
1,2-Dibromoethane (EDB)	Ave	0.3135	0.3350	0.1000	53.4	50.0	6.9	20.0
1-Chlorohexane	Ave	0.4362	0.4057		46.5	50.0	-7.0	20.0
Chlorobenzene	Ave	0.8743	0.9060	0.5000	51.8	50.0	3.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3565	0.3652		51.2	50.0	2.4	20.0
Ethylbenzene	Ave	1.610	1.633	0.1000	50.7	50.0	1.4	20.0
m&p-Xylene	Ave	0.6281	0.6407	0.1000	102	100	2.0	20.0
o-Xylene	Ave	0.6774	0.6788	0.3000	50.1	50.0	0.2	20.0
Styrene	Ave	1.023	0.997	0.3000	48.7	50.0	-2.6	20.0
Bromoform	Ave	0.2271	0.2377	0.1000	52.3	50.0	4.7	20.0
Isopropylbenzene	Ave	1.705	1.623	0.1000	47.6	50.0	-4.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9129	1.029	0.3000	56.4	50.0	12.8	20.0
Bromobenzene	Ave	0.6934	0.7207		52.0	50.0	3.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Lab Sample ID: CCVIS 410-560989/6

Calibration Date: 10/09/2024 10:03

Instrument ID: 9915

Calib Start Date: 07/15/2024 17:41

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 07/15/2024 19:57

Lab File ID: LC09X05.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
trans-1,4-Dichloro-2-butene	Ave	0.2347	0.0789		42.0	125	-66.4*	20.0
1,2,3-Trichloropropane	Ave	0.2723	0.2905		53.3	50.0	6.7	20.0
N-Propylbenzene	Ave	3.405	3.722		54.7	50.0	9.3	20.0
2-Chlorotoluene	Ave	0.7088	0.7549		53.3	50.0	6.5	20.0
1,3,5-Trimethylbenzene	Ave	2.689	2.898		53.9	50.0	7.8	20.0
4-Chlorotoluene	Ave	0.6813	0.7145		52.4	50.0	4.9	20.0
tert-Butylbenzene	Ave	0.4933	0.5667		57.4	50.0	14.9	20.0
1,2,4-Trimethylbenzene	Ave	2.727	2.931		53.7	50.0	7.5	20.0
sec-Butylbenzene	Ave	3.380	3.881		57.4	50.0	14.8	20.0
1,3-Dichlorobenzene	Ave	1.379	1.455	0.6000	52.8	50.0	5.5	20.0
p-Isopropyltoluene	Ave	2.981	3.282		55.0	50.0	10.1	20.0
1,4-Dichlorobenzene	Ave	1.405	1.474	0.5000	52.5	50.0	4.9	20.0
1,2,3-Trimethylbenzene	Ave	2.943	3.219		54.7	50.0	9.4	20.0
Benzyl chloride	Ave	1.782	1.943		54.5	50.0	9.0	20.0
1,3-Diethylbenzene	Ave	1.748	1.839		52.6	50.0	5.2	20.0
1,4-Diethylbenzene	Ave	1.826	1.919		52.5	50.0	5.1	20.0
n-Butylbenzene	Ave	1.459	1.631		55.9	50.0	11.8	20.0
1,2-Dichlorobenzene	Ave	1.473	1.574	0.4000	53.4	50.0	6.8	20.0
1,2-Diethylbenzene	Ave	1.464	1.655		56.5	50.0	13.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2386	0.2394	0.0500	50.2	50.0	0.3	20.0
1,3,5-Trichlorobenzene	Ave	1.187	1.270		53.5	50.0	7.0	20.0
1,2,4-Trichlorobenzene	Ave	1.199	1.242	0.2000	51.8	50.0	3.6	20.0
Hexachlorobutadiene	Ave	0.4404	0.4769		54.1	50.0	8.3	20.0
Naphthalene	Ave	4.148	3.971		47.9	50.0	-4.3	20.0
1,2,3-Trichlorobenzene	Ave	1.254	1.224		48.8	50.0	-2.4	20.0
2-Methylnaphthalene	Ave	2.447	1.323		27.0	50.0	-45.9*	20.0
Dibromofluoromethane (Surr)	Ave	0.2508	0.2424		48.3	50.0	-3.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0606	0.0597		49.2	50.0	-1.5	20.0
Toluene-d8 (Surr)	Ave	1.267	1.345		53.1	50.0	6.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5005	0.4577		45.7	50.0	-8.6	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X05.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 09-Oct-2024 10:03:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127182-006
 Misc. Info.: MRL
 Operator ID: CLM27445 Instrument ID: 9915
 Sublist: chrom-MSVoa_9915a*sub56
 Method: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 10:51:48 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 10:51:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.949	1.949	0.000	99	439441	50.0	40.6	
5 Chloromethane	50	2.145	2.145	0.000	99	544909	50.0	45.2	
6 Butadiene	39	2.248	2.248	0.000	94	706787	50.0	61.1	
7 Vinyl chloride	62	2.251	2.251	0.000	98	479142	50.0	40.6	
9 Bromomethane	94	2.589	2.589	0.000	91	349243	50.0	38.1	
10 Chloroethane	64	2.653	2.653	0.000	100	255083	50.0	41.3	
11 Dichlorofluoromethane	67	2.907	2.907	0.000	96	742466	50.0	39.0	
12 Trichlorofluoromethane	101	2.968	2.968	0.000	83	503045	50.0	35.4	
13 Pentane	43	2.975	2.975	0.000	97	478351	50.0	48.6	
15 Ethyl ether	59	3.171	3.171	0.000	93	176462	50.0	38.0	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.274	3.274	0.000	92	336875	50.0	38.3	
17 Acrolein	56	3.332	3.332	0.000	100	929847	501.1	605.9	
18 1,1-Dichloroethene	96	3.476	3.476	0.000	98	263255	50.0	40.5	
19 Acetone	58	3.492	3.492	0.000	100	85777	100.0	118.2	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.528	3.528	0.000	94	341215	50.0	45.6	
21 Isopropyl alcohol	45	3.663	3.663	0.000	36	129702	250.0	250.4	
22 Iodomethane	142	3.669	3.669	0.000	98	577061	50.0	42.2	
23 Carbon disulfide	76	3.769	3.769	0.000	99	1167670	50.0	49.0	
25 Methyl acetate	43	3.910	3.910	0.000	98	286996	50.0	55.1	
26 3-Chloro-1-propene	41	3.933	3.933	0.000	91	414860	50.0	45.7	
* 28 t-Butyl alcohol-d10 (IS)	65	4.116	4.116	0.000	97	267454	250.0	250.0	
27 Methylene Chloride	84	4.116	4.116	0.000	92	329951	50.0	41.9	
29 2-Methyl-2-propanol	59	4.261	4.261	0.000	97	243878	250.0	252.9	
30 Acrylonitrile	53	4.431	4.431	0.000	99	402567	125.0	134.6	
31 Methyl tert-butyl ether	73	4.512	4.512	0.000	95	1039877	50.0	43.8	
32 trans-1,2-Dichloroethene	96	4.525	4.525	0.000	98	270571	50.0	44.4	
35 Hexane	57	4.965	4.965	0.000	93	390721	50.0	52.2	
36 1,1-Dichloroethane	63	5.180	5.180	0.000	96	489115	50.0	49.6	
38 Isopropyl ether	45	5.254	5.254	0.000	97	993601	50.0	48.8	
39 2-Chloro-1,3-butadiene	53	5.299	5.299	0.000	90	406838	50.0	47.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.795	5.795	0.000	97	1000942	50.0	46.2	
41 2-Butanone (MEK)	43	6.007	6.007	0.000	100	398093	100.0	102.7	
42 cis-1,2-Dichloroethene	96	6.023	6.023	0.000	80	322373	50.0	48.3	
43 2,2-Dichloropropane	77	6.045	6.045	0.000	89	499030	50.0	44.4	
46 Propionitrile	54	6.081	6.081	0.000	97	357874	250.0	332.3	
48 Methacrylonitrile	67	6.299	6.299	0.000	92	426102	125.0	135.2	
49 Chlorobromomethane	128	6.351	6.351	0.000	96	164098	50.0	46.8	
50 Tetrahydrofuran	71	6.370	6.370	0.000	91	295329	250.0	306.9	
51 Chloroform	83	6.512	6.512	0.000	93	498349	50.0	45.1	
\$ 52 Dibromofluoromethane (Surr)	113	6.721	6.721	0.000	93	300434	50.0	48.3	
53 1,1,1-Trichloroethane	97	6.740	6.740	0.000	97	484830	50.0	42.8	
54 Cyclohexane	56	6.852	6.852	0.000	91	583643	50.0	46.4	
55 Carbon tetrachloride	117	6.959	6.959	0.000	86	405926	50.0	44.9	
56 1,1-Dichloropropene	75	6.962	6.962	0.000	97	393020	50.0	49.5	
57 Isobutyl alcohol	41	7.119	7.119	0.000	94	217733	625.0	638.3	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.180	7.180	0.000	97	73981	50.0	49.2	
59 Benzene	78	7.222	7.222	0.000	95	1227586	50.0	49.9	
60 1,2-Dichloroethane	62	7.286	7.286	0.000	97	398157	50.0	47.9	
62 Tert-amyl methyl ether	73	7.418	7.418	0.000	99	952692	50.0	45.0	
* 63 Fluorobenzene (IS)	96	7.624	7.624	0.000	99	1239606	50.0	50.0	
64 n-Heptane	43	7.650	7.650	0.000	94	424310	50.0	53.2	
66 n-Butanol	56	8.013	8.013	0.000	90	151569	625.0	656.2	
67 Trichloroethene	95	8.110	8.110	0.000	99	303521	50.0	47.6	
69 Methylcyclohexane	83	8.421	8.421	0.000	91	569135	50.0	45.4	
70 1,2-Dichloropropane	63	8.434	8.434	0.000	97	326744	50.0	53.6	
71 2-ethoxy-2-methyl butane	87	8.457	8.457	0.000	91	436255	50.0	43.5	
72 Methyl methacrylate	69	8.528	8.528	0.000	92	245899	50.0	47.6	
73 1,4-Dioxane	88	8.534	8.534	0.000	32	50952	625.0	696.1	
74 Dibromomethane	93	8.544	8.544	0.000	96	214248	50.0	48.0	
76 Dichlorobromomethane	83	8.785	8.785	0.000	100	385778	50.0	49.9	
77 2-Nitropropane	41	9.052	9.052	0.000	98	548975	250.0	294.0	
78 2-Chloroethyl vinyl ether	63	9.155	9.155	0.000	91	187611	50.0	82.3	
79 cis-1,3-Dichloropropene	75	9.338	9.338	0.000	97	475108	50.0	49.8	
80 4-Methyl-2-pentanone (MIBK)	43	9.518	9.518	0.000	97	952173	100.0	104.3	
\$ 82 Toluene-d8 (Surr)	98	9.656	9.656	0.000	94	1224197	50.0	53.1	
90 Toluene	92	9.733	9.733	0.000	98	742293	50.0	51.7	
95 trans-1,3-Dichloropropene	75	9.991	9.991	0.000	92	419226	50.0	52.8	
114 Ethyl methacrylate	69	10.058	10.058	0.000	89	466165	50.0	51.9	
117 1,1,2-Trichloroethane	97	10.193	10.193	0.000	90	285709	50.0	53.8	
118 Tetrachloroethene	166	10.293	10.293	0.000	96	306258	50.0	50.5	
119 1,3-Dichloropropane	76	10.360	10.360	0.000	91	472391	50.0	55.8	
121 2-Hexanone	43	10.415	10.415	0.000	97	605523	100.0	111.7	
123 Chlorodibromomethane	129	10.576	10.576	0.000	90	317069	50.0	56.3	
124 Ethylene Dibromide	107	10.685	10.685	0.000	98	305019	50.0	53.4	
* 125 Chlorobenzene-d5 (IS)	117	11.126	11.126	0.000	85	910510	50.0	50.0	
127 1-Chlorohexane	91	11.135	11.135	0.000	98	369396	50.0	46.5	
128 Chlorobenzene	112	11.151	11.151	0.000	95	824960	50.0	51.8	
131 1,1,1,2-Tetrachloroethane	131	11.232	11.232	0.000	97	332504	50.0	51.2	
132 Ethylbenzene	91	11.238	11.238	0.000	98	1486666	50.0	50.7	
134 m-Xylene & p-Xylene	106	11.354	11.354	0.000	100	1166767	100.0	102.0	
136 o-Xylene	106	11.685	11.685	0.000	96	618090	50.0	50.1	
137 Styrene	104	11.701	11.701	0.000	94	907607	50.0	48.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
138 Bromoform	173	11.855	11.855	0.000	96	216434	50.0	52.3	
139 Isopropylbenzene	105	11.987	11.987	0.000	95	1477670	50.0	47.6	
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	90	416764	50.0	45.7	
145 1,1,2,2-Tetrachloroethane	83	12.228	12.228	0.000	94	511326	50.0	56.4	
146 Bromobenzene	156	12.244	12.244	0.000	93	358014	50.0	52.0	
147 trans-1,4-Dichloro-2-butene	53	12.251	12.251	0.000	77	98015	125.0	42.0	
148 1,2,3-Trichloropropane	110	12.273	12.273	0.000	84	144322	50.0	53.3	
149 N-Propylbenzene	91	12.315	12.315	0.000	99	1849125	50.0	54.7	
150 2-Chlorotoluene	126	12.392	12.392	0.000	97	375029	50.0	53.3	
151 1,3,5-Trimethylbenzene	105	12.453	12.453	0.000	95	1439601	50.0	53.9	
152 4-Chlorotoluene	126	12.486	12.486	0.000	97	354967	50.0	52.4	
154 tert-Butylbenzene	134	12.695	12.695	0.000	93	281507	50.0	57.4	
156 1,2,4-Trimethylbenzene	105	12.736	12.736	0.000	97	1455960	50.0	53.7	
157 sec-Butylbenzene	105	12.859	12.859	0.000	94	1928031	50.0	57.4	
158 1,3-Dichlorobenzene	146	12.955	12.955	0.000	98	722857	50.0	52.8	
159 4-Isopropyltoluene	119	12.968	12.968	0.000	97	1630519	50.0	55.0	
* 161 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	94	496775	50.0	50.0	
162 1,4-Dichlorobenzene	146	13.029	13.029	0.000	95	732152	50.0	52.5	
163 1,2,3-Trimethylbenzene	105	13.042	13.042	0.000	98	1598878	50.0	54.7	
164 Benzyl chloride	91	13.106	13.106	0.000	98	965416	50.0	54.5	
165 1,3-Diethylbenzene	119	13.167	13.167	0.000	95	913501	50.0	52.6	
166 p-Diethylbenzene	119	13.238	13.238	0.000	94	953515	50.0	52.5	
167 n-Butylbenzene	92	13.261	13.261	0.000	97	810274	50.0	55.9	
168 1,2-Dichlorobenzene	146	13.289	13.289	0.000	99	781677	50.0	53.4	
169 o-diethylbenzene	119	13.312	13.312	0.000	95	822217	50.0	56.5	
171 1,2-Dibromo-3-Chloropropane	75	13.830	13.830	0.000	86	118908	50.0	50.2	
172 1,3,5-Trichlorobenzene	180	13.958	13.958	0.000	98	630730	50.0	53.5	
173 1,2,4-Trichlorobenzene	180	14.383	14.383	0.000	94	617191	50.0	51.8	
175 Hexachlorobutadiene	225	14.466	14.466	0.000	98	236919	50.0	54.1	
176 Naphthalene	128	14.559	14.559	0.000	97	1972483	50.0	47.9	
177 1,2,3-Trichlorobenzene	180	14.704	14.704	0.000	96	607875	50.0	48.8	
178 2-Methylnaphthalene	142	15.318	15.318	0.000	92	657087	50.0	27.0	

QC Flag Legend

Processing Flags

Reagents:

MSV_CCV_VOC#1_00204	Amount Added: 5.00	Units: uL	
MSV_CCV_2CEVE_00196	Amount Added: 5.00	Units: uL	
MSV_CCV_VOC#3_00201	Amount Added: 4.00	Units: uL	
MSV_CCV_GASES_00869	Amount Added: 2.50	Units: uL	
MSV_CCV_EE_00007	Amount Added: 5.00	Units: uL	
MSV_HP23_ISSS_00014	Amount Added: 1.00	Units: uL	Run Reagent

Chrom Revision: 2.3 24-Sep-2024 15:19:46

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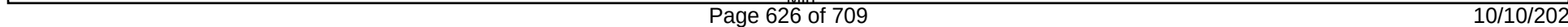
Operator ID: CLM27445

Worklist Smp#: 6

ALS Bottle#: 5

Limit Group: MSV - 8260C D

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 15-Jul-2024 13:34:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0119345-001
Misc. Info.: BFB
Operator ID: knk41612 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 16-Jul-2024 09:08:16 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 33 BFB	95	4.645	4.645	0.000	0	520336	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

MSV_V_BFB_00017

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15T01.D

Injection Date: 15-Jul-2024 13:34:30

Instrument ID: 9915

Lims ID: bfb

Client ID:

Operator ID: knk41612

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

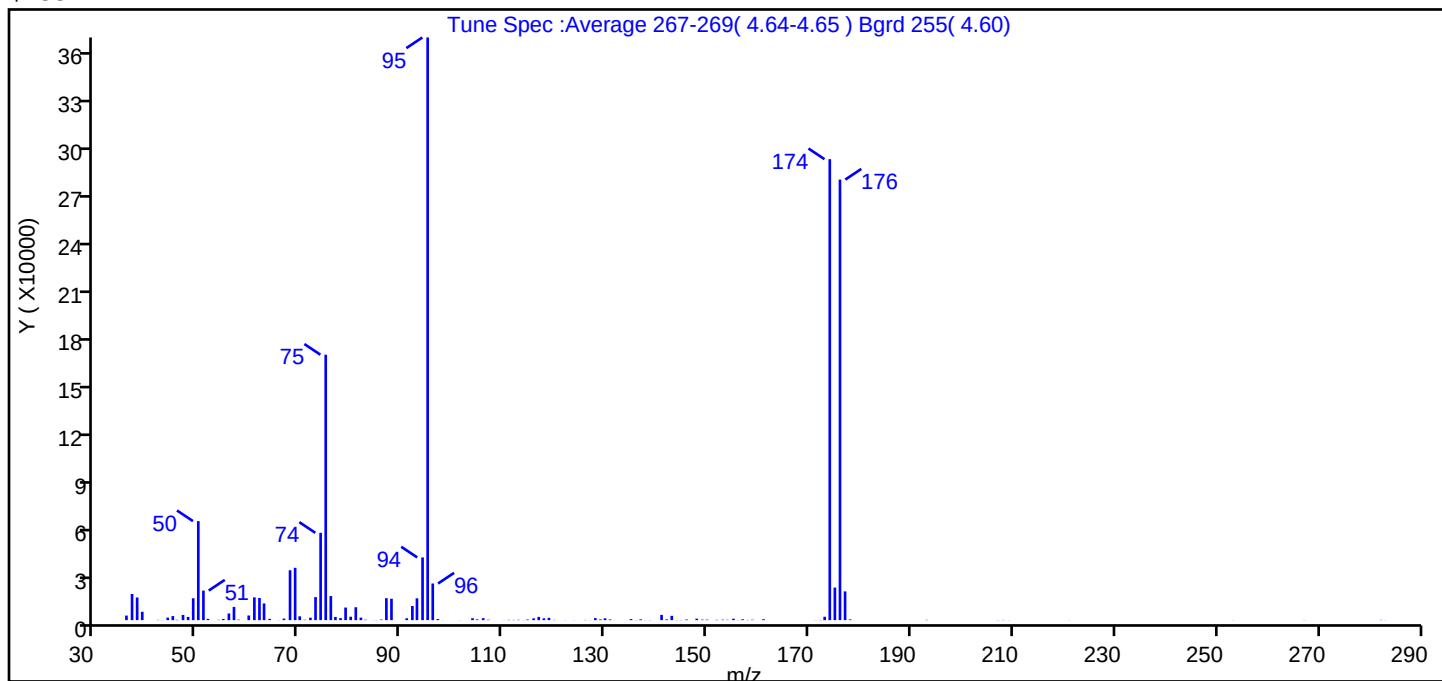
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

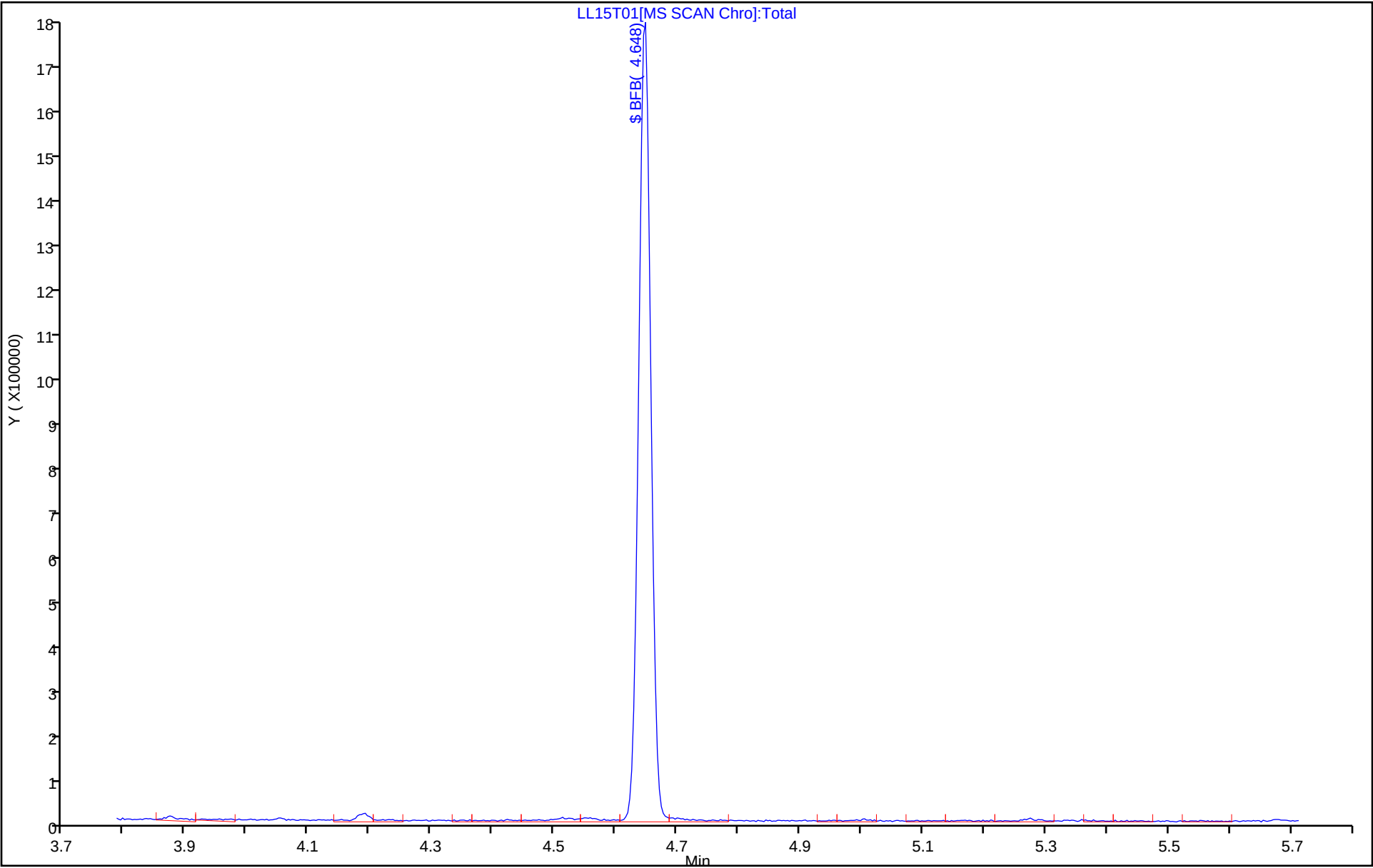
\$ 33 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.0
75	30 to 60% of m/z 95	45.6
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	79.1
175	5 to 9% of m/z 174	5.6 (7.1)
176	Greater than 95% but less than 101% of m/z 174	75.6 (95.6)
177	5 to 9% of m/z 176	4.9 (6.5)

Data File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15T01.D\MSVoa_9915a.rsl\spectra.d
Injection Date: 15-Jul-2024 13:34:30
Spectrum: Tune Spec :Average 267-269(4.64-4.65) Bgrd 255(4.60)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 120

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2837	71.00	228	107.00	265	146.00	400
37.00	16228	72.00	1522	110.00	53	148.00	925
38.00	14044	73.00	14309	111.00	187	149.00	322
39.00	5205	74.00	54160	112.00	129	150.00	319
42.00	157	75.00	164608	113.00	219	152.00	210
43.00	45	76.00	14931	114.00	54	153.00	304
44.00	1561	77.00	1972	115.00	386	154.00	213
45.00	2515	78.00	1261	116.00	1118	155.00	875
46.00	229	79.00	7813	117.00	2020	156.00	81
47.00	3235	80.00	2131	118.00	1121	157.00	525
48.00	1991	81.00	8004	119.00	1441	158.00	114
49.00	13572	82.00	1562	120.00	144	159.00	265
50.00	61408	83.00	264	122.00	57	161.00	568
51.00	18336	84.00	57	124.00	56	171.00	67
52.00	775	85.00	74	126.00	124	172.00	125
54.00	168	86.00	354	127.00	62	173.00	2092
55.00	747	87.00	13626	128.00	1270	174.00	285888
56.00	4130	88.00	13279	129.00	451	175.00	20192
57.00	8202	91.00	1184	130.00	1145	176.00	273216
58.00	297	92.00	8772	131.00	431	177.00	17840
60.00	2893	93.00	13537	135.00	671	178.00	456
61.00	14145	94.00	38896	136.00	116	193.00	175
62.00	13738	95.00	361344	137.00	515	207.00	83
63.00	10368	96.00	22712	138.00	71	208.00	126
64.00	814	97.00	689	139.00	108	209.00	66
66.00	59	98.00	53	141.00	3272	221.00	56
67.00	960	102.00	52	142.00	460	253.00	57
68.00	30952	104.00	1207	143.00	2674	267.00	80
69.00	32456	105.00	473	144.00	132	282.00	139
70.00	2379	106.00	1224	145.00	117	283.00	50



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:

\\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08T31.D

Lims ID:

bfb

Client ID:

Sample Type:

BFB

Inject. Date:

08-Oct-2024 20:12:30

ALS Bottle#:

1

Worklist Smp#:

1

Injection Vol:

1.0 uL

Dil. Factor:

1.0000

Sample Info:

410-0127156-001

Misc. Info.:

BFB

Operator ID:

gaw91131

Instrument ID:

9915

Method:

\\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m

Limit Group:

MSV - 8260C_D

Last Update:

09-Oct-2024 15:23:19

Calib Date:

15-Jul-2024 19:57:30

Integrator:

RTE

ID Type:

Deconvolution ID

Quant Method:

Internal Standard

Quant By:

Initial Calibration

Last ICal File:

\\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D

Column 1 :

Rxi-624Sil MS Capillary Column (0.25 mm)

Det:

MS Quad

Process Host:

CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 15:23:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 34 BFB

95

4.642

4.642

0.000

0

503073

NC

NC

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

MSV_V_BFB_00017

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08T31.D

Injection Date: 08-Oct-2024 20:12:30

Instrument ID: 9915

Lims ID: bfb

Client ID:

Operator ID: gaw91131

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

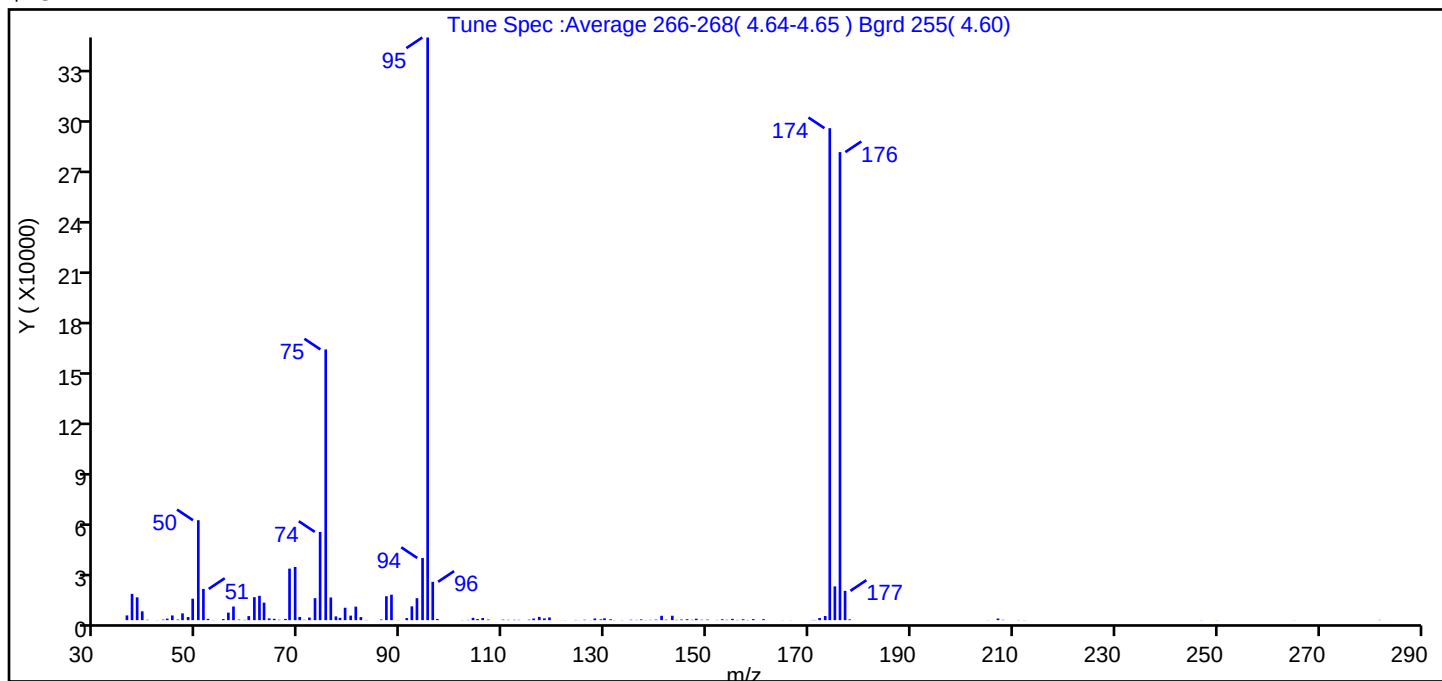
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

\$ 34 BFB

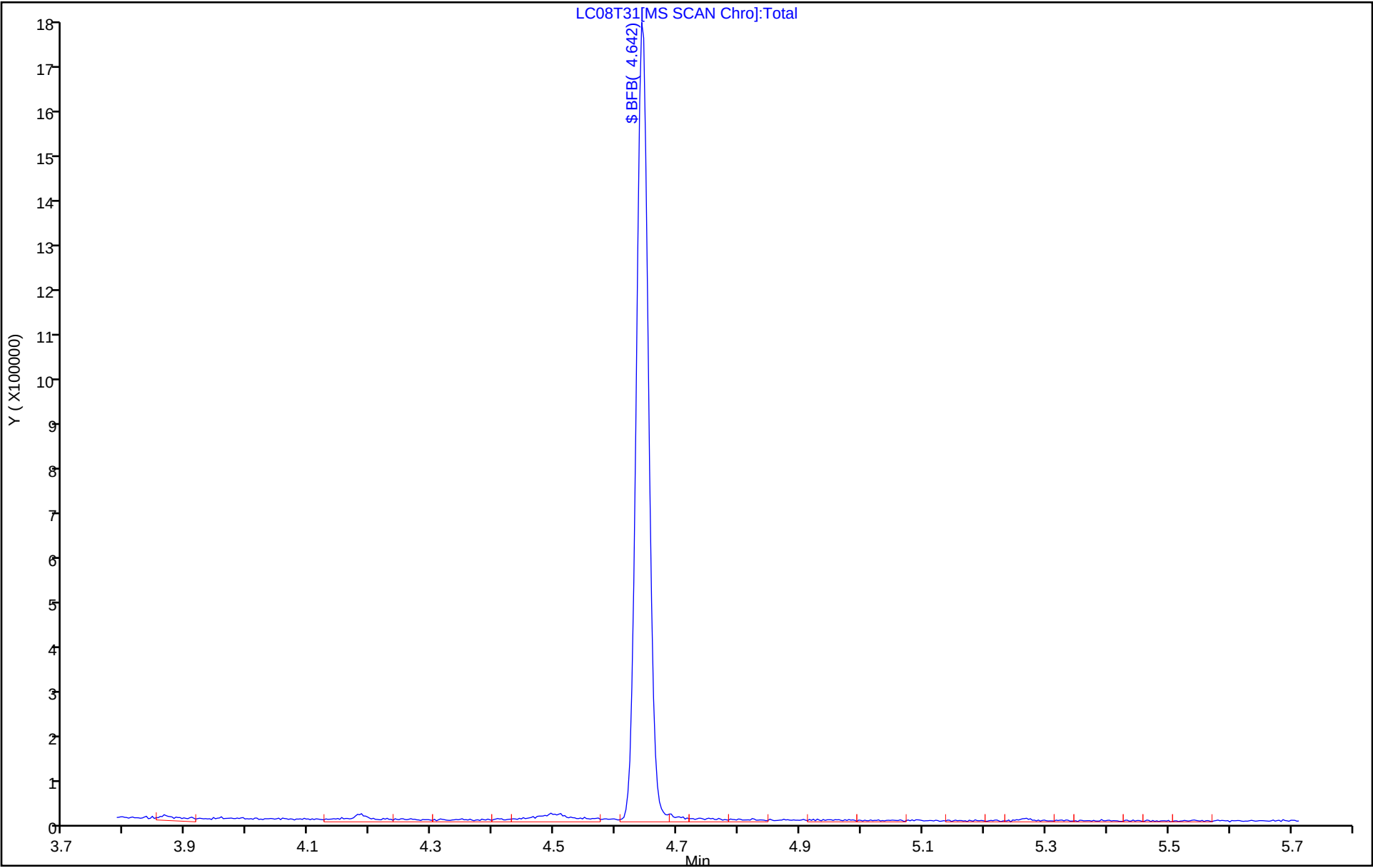


m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.2
75	30 to 60% of m/z 95	46.5
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.7 (0.8)
174	50 to 120% of m/z 95	84.4
175	5 to 9% of m/z 174	5.8 (6.9)
176	Greater than 95% but less than 101% of m/z 174	80.3 (95.1)
177	5 to 9% of m/z 176	5.0 (6.3)

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08T31.D\MSVoa_9915a.rslt\spectra.d
Injection Date: 08-Oct-2024 20:12:30
Spectrum: Tune Spec :Average 266-268(4.64-4.65) Bgrd 255(4.60)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 129

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2845	71.00	184	113.00	183	150.00	335
37.00	15749	72.00	1554	115.00	284	152.00	128
38.00	13671	73.00	13149	116.00	947	153.00	533
39.00	5285	74.00	52864	117.00	1953	154.00	213
40.00	236	75.00	162176	118.00	1073	155.00	764
42.00	78	76.00	13574	119.00	1623	156.00	143
43.00	309	77.00	2253	121.00	52	157.00	522
44.00	905	78.00	1375	122.00	65	158.00	133
45.00	2807	79.00	7433	124.00	122	159.00	601
46.00	350	80.00	2695	125.00	60	161.00	576
47.00	4074	81.00	8113	126.00	254	165.00	62
48.00	1862	82.00	1860	127.00	50	166.00	55
49.00	12833	83.00	124	128.00	1007	171.00	120
50.00	59864	86.00	374	129.00	492	171.00	114
51.00	18704	87.00	14334	130.00	1086	172.00	1293
52.00	759	88.00	15241	131.00	524	173.00	2465
53.00	78	89.00	116	132.00	86	174.00	294720
55.00	667	91.00	1234	133.00	94	175.00	20232
56.00	4498	92.00	8267	135.00	255	176.00	280384
57.00	8170	93.00	13149	136.00	133	177.00	17552
58.00	331	94.00	37248	137.00	447	178.00	477
59.00	167	95.00	349056	138.00	100	205.00	60
60.00	2432	96.00	22968	139.00	182	207.00	976
61.00	13764	97.00	708	140.00	326	208.00	201
62.00	14575	102.00	88	141.00	2607	211.00	110
63.00	10470	103.00	156	142.00	288	212.00	74
64.00	1059	104.00	1395	143.00	2633	247.00	76
65.00	799	105.00	642	144.00	182	250.00	59
66.00	232	106.00	1278	145.00	388	265.00	52
67.00	723	107.00	352	146.00	562	282.00	161
68.00	30864	110.00	292	147.00	195		
69.00	31824	111.00	190	148.00	857		
70.00	1937	112.00	220	149.00	232		

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2845	71.00	184	113.00	183	150.00	335
37.00	15749	72.00	1554	115.00	284	152.00	128
38.00	13671	73.00	13149	116.00	947	153.00	533
39.00	5285	74.00	52864	117.00	1953	154.00	213
40.00	236	75.00	162176	118.00	1073	155.00	764
42.00	78	76.00	13574	119.00	1623	156.00	143
43.00	309	77.00	2253	121.00	52	157.00	522
44.00	905	78.00	1375	122.00	65	158.00	133
45.00	2807	79.00	7433	124.00	122	159.00	601
46.00	350	80.00	2695	125.00	60	161.00	576
47.00	4074	81.00	8113	126.00	254	165.00	62
48.00	1862	82.00	1860	127.00	50	166.00	55
49.00	12833	83.00	124	128.00	1007	171.00	120
50.00	59864	86.00	374	129.00	492	171.00	114
51.00	18704	87.00	14334	130.00	1086	172.00	1293
52.00	759	88.00	15241	131.00	524	173.00	2465
53.00	78	89.00	116	132.00	86	174.00	294720
55.00	667	91.00	1234	133.00	94	175.00	20232
56.00	4498	92.00	8267	135.00	255	176.00	280384
57.00	8170	93.00	13149	136.00	133	177.00	17552
58.00	331	94.00	37248	137.00	447	178.00	477
59.00	167	95.00	349056	138.00	100	205.00	60
60.00	2432	96.00	22968	139.00	182	207.00	976
61.00	13764	97.00	708	140.00	326	208.00	201
62.00	14575	102.00	88	141.00	2607	211.00	110
63.00	10470	103.00	156	142.00	288	212.00	74
64.00	1059	104.00	1395	143.00	2633	247.00	76
65.00	799	105.00	642	144.00	182	250.00	59
66.00	232	106.00	1278	145.00	388	265.00	52
67.00	723	107.00	352	146.00	562	282.00	161
68.00	30864	110.00	292	147.00	195		
69.00	31824	111.00	190	148.00	857		
70.00	1937	112.00	220	149.00	232		



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 09-Oct-2024 08:02:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0127182-001
Misc. Info.: BFB
Operator ID: CLM27445 Instrument ID: 9915

Method: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 10:51:46 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 34 BFB 95 4.645 4.645 0.000 0 363500 NC NC

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

MSV_V_BFB_00017 Amount Added: 1.00 Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09T01.D

Injection Date: 09-Oct-2024 08:02:30

Instrument ID: 9915

Lims ID: bfb

Client ID:

Operator ID: CLM27445

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

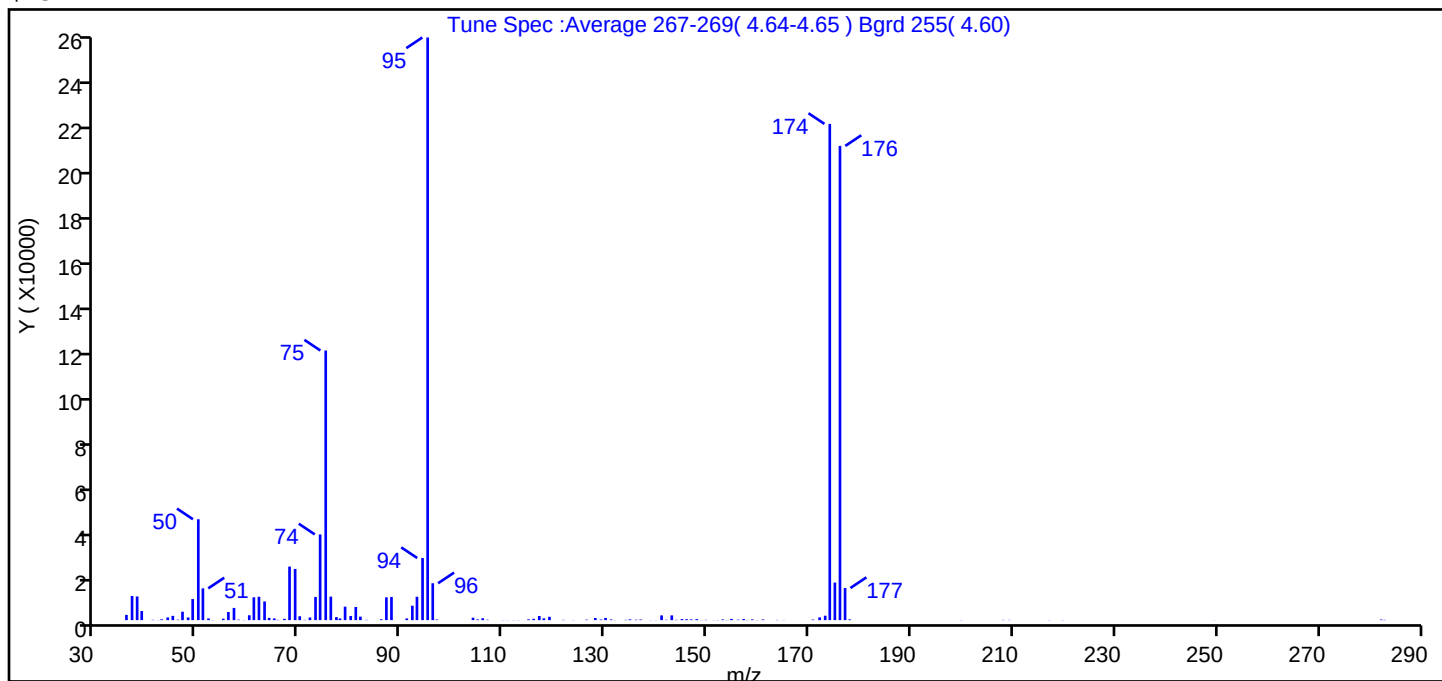
Dil. Factor: 1.0000

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

\$ 34 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.3
75	30 to 60% of m/z 95	46.3
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.8 (0.9)
174	50 to 120% of m/z 95	85.2
175	5 to 9% of m/z 174	6.4 (7.6)
176	Greater than 95% but less than 101% of m/z 174	81.4 (95.6)
177	5 to 9% of m/z 176	5.5 (6.8)

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09T01.D\MSVoa_9915a.rslt\spectra.d
Injection Date: 09-Oct-2024 08:02:30
Spectrum: Tune Spec :Average 267-269(4.64-4.65) Bgrd 255(4.60)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 122

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2277	69.00	22176	112.00	55	151.00	53
37.00	10472	70.00	1692	113.00	63	152.00	64
38.00	10266	71.00	130	115.00	358	153.00	300
39.00	3943	72.00	1173	116.00	586	154.00	71
41.00	136	73.00	10056	117.00	1806	155.00	528
42.00	55	74.00	37144	118.00	800	156.00	195
43.00	360	75.00	116800	119.00	1450	157.00	484
44.00	1180	76.00	10182	122.00	127	158.00	67
45.00	1851	77.00	1324	124.00	58	159.00	312
46.00	200	78.00	734	126.00	222	160.00	54
47.00	3660	79.00	5838	128.00	936	161.00	298
48.00	1163	80.00	1809	129.00	270	164.00	107
49.00	9140	81.00	5695	130.00	969	165.00	68
50.00	43704	82.00	1516	131.00	297	171.00	248
51.00	13763	83.00	129	132.00	52	172.00	1209
52.00	749	86.00	367	134.00	138	173.00	1918
53.00	62	87.00	9879	135.00	345	174.00	214976
55.00	631	88.00	10037	136.00	194	175.00	16276
56.00	3524	91.00	742	137.00	269	176.00	205440
57.00	5295	92.00	6246	139.00	63	177.00	13915
58.00	222	93.00	10128	140.00	55	178.00	341
59.00	76	94.00	26904	141.00	2061	200.00	63
60.00	2121	95.00	252416	142.00	158	208.00	114
61.00	9898	96.00	15977	143.00	2065	209.00	95
62.00	10123	97.00	265	144.00	141	217.00	73
63.00	8101	104.00	1056	145.00	466	220.00	57
64.00	980	105.00	333	146.00	398	249.00	53
65.00	753	106.00	831	147.00	324	282.00	258
66.00	120	107.00	177	148.00	433	283.00	122
67.00	557	110.00	62	149.00	56		
68.00	23208	111.00	58	150.00	144		

Report Date: 09-Oct-2024 10:51:46

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09T01.D

Injection Date: 09-Oct-2024 08:02:30

Instrument ID: 9915

Operator ID: CLM27445

Lims ID: bfb

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

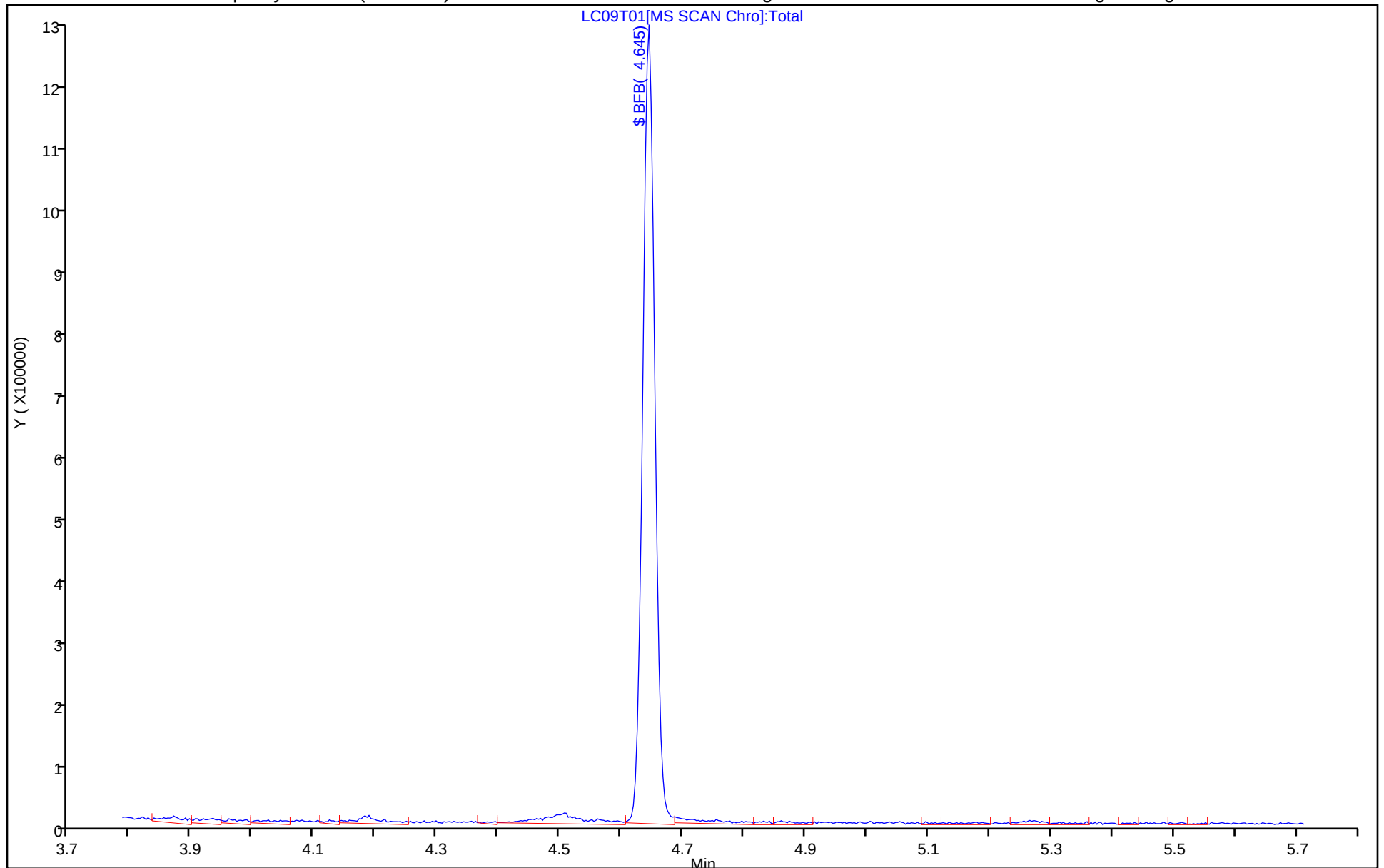
ALS Bottle#: 1

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-560875/6

Matrix: Water

Lab File ID: LC08X35.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5(mL)

Date Analyzed: 10/08/2024 21:57

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-560875/6

Matrix: Water

Lab File ID: LC08X35.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5 (mL)

Date Analyzed: 10/08/2024 21:57

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X35.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 08-Oct-2024 21:57:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-006
 Misc. Info.: MB
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Oct-2024 22:43:39 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: JS6E

Date: 08-Oct-2024 22:43:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116		1.904					ND	
3 Dichlorodifluoromethane	85		1.933					ND	
4 Chlorodifluoromethane	51		1.959					ND	7
5 Chloromethane	50		2.129					ND	7
6 Butadiene	39		2.232					ND	7
7 Vinyl chloride	62		2.245					ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.319					ND	
9 Bromomethane	94		2.579					ND	
10 Chloroethane	64		2.641					ND	
11 Dichlorofluoromethane	67		2.882					ND	
12 Trichlorofluoromethane	101		2.952					ND	
13 Pentane	43		2.959					ND	7
14 Ethanol	45		3.078					ND	
15 Ethyl ether	59		3.168					ND	
16 1,2-Dichloro-1,1,2-trifluoroethane	67		3.264					ND	
17 Acrolein	56		3.316					ND	7
18 1,1-Dichloroethene	96		3.464					ND	
19 Acetone	58		3.480					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.515					ND	
21 Isopropyl alcohol	45		3.653					ND	
22 Iodomethane	142		3.653					ND	
23 Carbon disulfide	76		3.756					ND	7
24 Acetonitrile	41		3.849					ND	
25 Methyl acetate	43		3.898					ND	7
26 3-Chloro-1-propene	41		3.920					ND	7
27 Methylene Chloride	84		4.100					ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.123	4.139	-0.016	1	243478	250.0	250.0	
29 2-Methyl-2-propanol	59		4.235					ND	
30 Acrylonitrile	53		4.419					ND	
31 Methyl tert-butyl ether	73		4.499					ND	
32 trans-1,2-Dichloroethene	96		4.505					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Hexane	57		4.956					ND	
36 1,1-Dichloroethane	63		5.171					ND	
37 Vinyl acetate	43		5.177					ND	
38 Isopropyl ether	45		5.239					ND	
39 2-Chloro-1,3-butadiene	53		5.296					ND	
40 Tert-butyl ethyl ether	59		5.782					ND	
41 2-Butanone (MEK)	43		5.988					ND	7
42 cis-1,2-Dichloroethene	96		6.013					ND	
43 2,2-Dichloropropane	77		6.042					ND	
45 Methyl acrylate	55		6.071					ND	U
44 Ethyl acetate	43		6.071					ND	7
46 Propionitrile	54		6.074					ND	
S 47 1,2-Dichloroethene, Total	100		6.155					ND	7
48 Methacrylonitrile	67		6.287					ND	
49 Chlorobromomethane	128		6.348					ND	
50 Tetrahydrofuran	71		6.367					ND	
51 Chloroform	83		6.502					ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.727	6.718	0.009	92	284870	50.0	50.4	
53 1,1,1-Trichloroethane	97		6.737					ND	
54 Cyclohexane	56		6.846					ND	7
56 1,1-Dichloropropene	75		6.952					ND	
55 Carbon tetrachloride	117		6.952					ND	
57 Isobutyl alcohol	41		7.113					ND	7
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.174	7.171	0.003	83	73111	50.0	53.5	
59 Benzene	78		7.216					ND	7
60 1,2-Dichloroethane	62		7.280					ND	
61 Isopropyl acetate	43		7.303					ND	7
62 Tert-amyl methyl ether	73		7.412					ND	
* 63 Fluorobenzene (IS)	96	7.627	7.621	0.006	99	1128087	50.0	50.0	
64 n-Heptane	43		7.647					ND	7
65 t-Amyl alcohol	73	7.724	7.746	-0.022	1	72		NC	
66 n-Butanol	56		8.007					ND	
67 Trichloroethene	95		8.103					ND	
68 Ethyl acrylate	55		8.158					ND	U
69 Methylcyclohexane	83		8.418					ND	
70 1,2-Dichloropropane	63		8.431					ND	
71 2-ethoxy-2-methyl butane	87		8.447					ND	
72 Methyl methacrylate	69		8.528					ND	
73 1,4-Dioxane	88		8.534					ND	
74 Dibromomethane	93		8.541					ND	
75 n-Propyl acetate	61		8.605					ND	
76 Dichlorobromomethane	83		8.779					ND	
77 2-Nitropropane	41		9.049					ND	
78 2-Chloroethyl vinyl ether	63		9.152					ND	
79 cis-1,3-Dichloropropene	75		9.338					ND	7
80 4-Methyl-2-pentanone (MIBK)	43		9.515					ND	
\$ 82 Toluene-d8 (Surr)	98	9.656	9.653	0.003	93	1042413	50.0	51.6	
90 Toluene	92		9.727					ND	
95 trans-1,3-Dichloropropene	75		9.988					ND	7
114 Ethyl methacrylate	69		10.055					ND	7
S 115 1,3-Dichloropropene, Total	100		10.060					ND	7
117 1,1,2-Trichloroethane	97		10.193					ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
118 Tetrachloroethene	166		10.290					ND	
119 1,3-Dichloropropane	76		10.357					ND	
120 3,4-Dichloro-1-butene	75		10.399					ND	7
121 2-Hexanone	43		10.415					ND	7
122 n-Butyl acetate	43		10.540					ND	
123 Chlorodibromomethane	129		10.573					ND	
124 Ethylene Dibromide	107		10.682					ND	
* 125 Chlorobenzene-d5 (IS)	117	11.126	11.123	0.004	85	797962	50.0	50.0	
127 1-Chlorohexane	91		11.135					ND	U
128 Chlorobenzene	112		11.151					ND	7
131 1,1,1,2-Tetrachloroethane	131		11.229					ND	
132 Ethylbenzene	91		11.238					ND	
S 133 Xylenes, Total	106		11.245					ND	7
134 m-Xylene & p-Xylene	106		11.354					ND	
135 n-Butyl acrylate	55		11.663					ND	
136 o-Xylene	106		11.685					ND	
137 Styrene	104		11.698					ND	
138 Bromoform	173		11.852					ND	7
139 Isopropylbenzene	105		11.987					ND	
140 cis-1,4-Dichloro-2-butene	88		12.029					ND	7
141 Cyclohexanone	55		12.061					ND	7
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	365498	50.0	45.8	
145 1,1,2,2-Tetrachloroethane	83		12.229					ND	
146 Bromobenzene	156		12.245					ND	
147 trans-1,4-Dichloro-2-butene	53		12.254					ND	
148 1,2,3-Trichloropropane	110		12.274					ND	
149 N-Propylbenzene	91		12.315					ND	7
150 2-Chlorotoluene	126		12.389					ND	
151 1,3,5-Trimethylbenzene	105		12.454					ND	7
152 4-Chlorotoluene	126		12.483					ND	
153 2,3,4-Trichlorobutene	109		12.569					ND	
154 tert-Butylbenzene	134		12.695					ND	7
155 Pentachloroethane	167		12.727					ND	
156 1,2,4-Trimethylbenzene	105		12.737					ND	7
157 sec-Butylbenzene	105		12.859					ND	7
158 1,3-Dichlorobenzene	146		12.955					ND	7
159 4-Isopropyltoluene	119		12.965					ND	7
* 161 1,4-Dichlorobenzene-d4	152	13.010	13.013	-0.003	95	464350	50.0	50.0	
162 1,4-Dichlorobenzene	146		13.029					ND	7
163 1,2,3-Trimethylbenzene	105		13.039					ND	7
164 Benzyl chloride	91		13.106					ND	7
165 1,3-Diethylbenzene	119		13.167					ND	7
166 p-Diethylbenzene	119		13.238					ND	7
167 n-Butylbenzene	92		13.257					ND	7
168 1,2-Dichlorobenzene	146		13.286					ND	7
169 o-diethylbenzene	119		13.309					ND	7
170 Hexachloroethane	201		13.580					ND	
171 1,2-Dibromo-3-Chloropropane	75		13.827					ND	7
172 1,3,5-Trichlorobenzene	180		13.958					ND	7
173 1,2,4-Trichlorobenzene	180		14.380					ND	7
174 2-Ethylhexyl acrylate	55		14.389					ND	
175 Hexachlorobutadiene	225		14.466					ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
176 Naphthalene	128		14.560					ND	7
177 1,2,3-Trichlorobenzene	180	14.717	14.704	0.013	87	2368		0.2033	
178 2-Methylnaphthalene	142		15.318					ND	7
179 C4-C10	1		0.000					ND	
S 180 Total Diethylbenzene	1		0.000					ND	7
181 C6-C12	1		0.000					ND	
182 1-Bromo-2-chloroethane	1		0.000					ND	
183 Ethyl bromide	1		0.000					ND	
184 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
185 n-Nonane	1		0.000					ND	
S 186 divinyl benzene	1		0.000					ND	7
187 sec-Butyl Alcohol	45		0.000					ND	
188 C4-C12	1		0.000					ND	
189 Isobutyl acetate	43		0.000					ND	
190 Propanol	1		0.000					ND	
191 4-Hydroxy-4-methyl-2-pentanol	1		0.000					ND	
192 Gasoline (Unleaded)	1		0.000					ND	
193 1,1,1,2-Tetrafluoroethane TIC	1		0.000					ND	
194 2,3-Dimethylbutane TIC	1		0.000					ND	
195 2,2-Dimethylbutane TIC	1		0.000					ND	
196 Methylcyclopentane TIC	1		0.000					ND	
197 Decamethylcyclopentasiloxane TIC	1		0.000					ND	
198 Dimethyl Sulfide TIC	1		0.000					ND	
199 2,2-Dimethylpropane TIC	1		0.000					ND	
200 2-Methylhexane TIC	1		0.000					ND	
201 1-Methylnaphthalene (TIC)	1		0.000					ND	
202 3-Methylpentane TIC	1		0.000					ND	
203 1-Methylnaphthalene	142		0.000					ND	
204 3-Pentanone TIC	1		0.000					ND	
205 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
206 tert-Butyl Formate	1		0.000					ND	
207 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
208 n-Decane	57		0.000					ND	
209 Diethoxymethane	1		0.000					ND	
210 Dodecane	57		0.000					ND	
211 Chloroacetonitrile	1		0.000					ND	
212 Butane	1		0.000					ND	
213 3-chloro-1-Butene	1		0.000					ND	
214 1,3-Divinylbenzene	1		0.000					ND	
215 C5-C12	1		0.000					ND	
216 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
217 4-Ethyltoluene	1		0.000					ND	
218 3-chloro-1-Butene TIC	1		0.000					ND	
219 2-Butoxyethyl acetate	1		0.000					ND	
220 sec-Butyl Alcohol TIC	1		0.000					ND	
\$ 221 trans-1,2,3-Trichlorobutene-2 TIC	1		0.000					ND	
222 2-ethoxy-2-methyl butane TIC	1		0.000					ND	
223 Undecane	1		0.000					ND	
224 C6-C10	1		0.000					ND	
225 1,4-Divinylbenzene	1		0.000					ND	
226 n-Octane	1		0.000					ND	
227 2,3-Dichloro-1,3-butadiene	1		0.000					ND	

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X35.D

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
228 3-Methyl-1-butene	1		0.000					ND	
S 229 Total BTEX	1		0.000					ND	
230 Propene oxide	1		0.000					ND	
231 1-Chlorobutane	1		0.000					ND	
232 Cyclopentane TIC	1		0.000					ND	
233 3-Methylhexane TIC	1		0.000					ND	
234 Methylal	1		0.000					ND	
235 Dimethylformamide TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 08-Oct-2024 22:43:55

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X35.D

Injection Date: 08-Oct-2024 21:57:30

Instrument ID: 9915

Operator ID: gaw91131

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

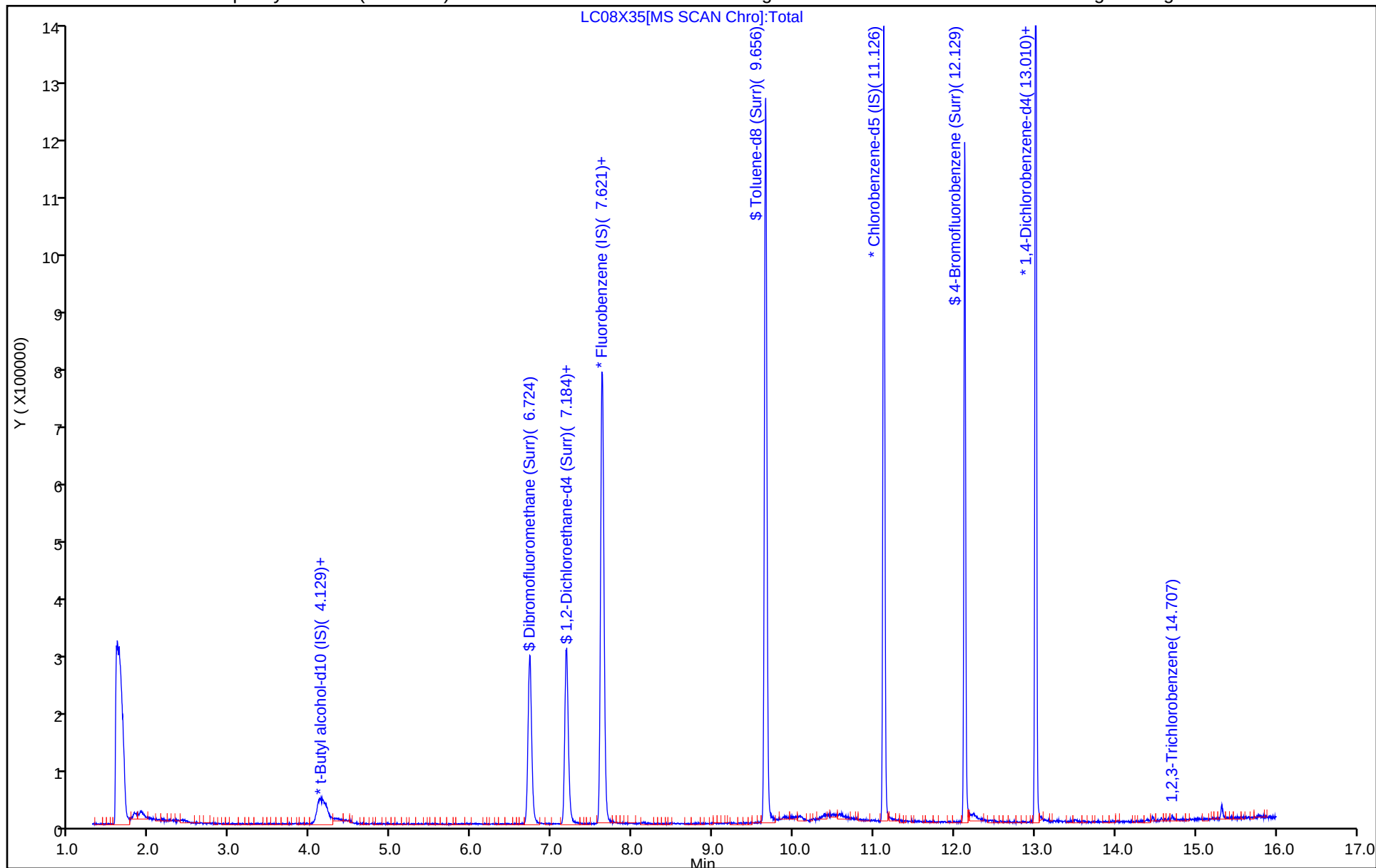
ALS Bottle#: 5

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X35.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 08-Oct-2024 21:57:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-006
Misc. Info.: MB
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 08-Oct-2024 22:43:39 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1611

First Level Reviewer: JS6E

Date: 08-Oct-2024 22:43:19

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	50.4	100.71
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	53.5	106.93
\$ 82 Toluene-d8 (Surr)	50.0	51.6	103.14
\$ 142 4-Bromofluorobenzene (Surr)	50.0	45.8	91.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-560989/10

Matrix: Water

Lab File ID: LC09X09.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5(mL)

Date Analyzed: 10/09/2024 11:33

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560989

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-560989/10

Matrix: Water

Lab File ID: LC09X09.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 11:33

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560989

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X09.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 09-Oct-2024 11:33:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127182-010
 Operator ID: CLM27445 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 10-Oct-2024 07:41:20 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1653

First Level Reviewer: TQ4J

Date: 09-Oct-2024 12:31:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116		1.904					ND	
3 Dichlorodifluoromethane	85		1.949					ND	
4 Chlorodifluoromethane	51		1.959					ND	7
5 Chloromethane	50		2.145					ND	7
6 Butadiene	39		2.248					ND	7
7 Vinyl chloride	62		2.251					ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.319					ND	7
9 Bromomethane	94		2.589					ND	
10 Chloroethane	64		2.653					ND	
11 Dichlorofluoromethane	67		2.907					ND	
12 Trichlorofluoromethane	101		2.968					ND	
13 Pentane	43		2.975					ND	7
14 Ethanol	45		3.078					ND	
15 Ethyl ether	59		3.171					ND	
16 1,2-Dichloro-1,1,2-trifluoroetha	67		3.274					ND	
17 Acrolein	56		3.332					ND	7
18 1,1-Dichloroethene	96		3.476					ND	
19 Acetone	58		3.492					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.528					ND	
21 Isopropyl alcohol	45		3.663					ND	7
22 Iodomethane	142		3.669					ND	
23 Carbon disulfide	76		3.769					ND	7
24 Acetonitrile	41		3.849					ND	7
25 Methyl acetate	43		3.910					ND	7
26 3-Chloro-1-propene	41		3.933					ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.158	4.116	0.042	1	269876	250.0	250.0	
27 Methylene Chloride	84		4.116					ND	7
29 2-Methyl-2-propanol	59		4.261					ND	
30 Acrylonitrile	53		4.431					ND	7
31 Methyl tert-butyl ether	73		4.512					ND	
32 trans-1,2-Dichloroethene	96		4.525					ND	
35 Hexane	57		4.965					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43		5.177					ND	7
36 1,1-Dichloroethane	63		5.180					ND	
38 Isopropyl ether	45		5.254					ND	
39 2-Chloro-1,3-butadiene	53		5.299					ND	
40 Tert-butyl ethyl ether	59		5.795					ND	
41 2-Butanone (MEK)	43		6.007					ND	7
42 cis-1,2-Dichloroethene	96		6.023					ND	
43 2,2-Dichloropropane	77		6.045					ND	
45 Methyl acrylate	55		6.071					ND	
44 Ethyl acetate	43		6.071					ND	7
46 Propionitrile	54		6.081					ND	
S 47 1,2-Dichloroethene, Total	100		6.155					ND	7
48 Methacrylonitrile	67		6.299					ND	
49 Chlorobromomethane	128		6.351					ND	
50 Tetrahydrofuran	71		6.370					ND	
51 Chloroform	83		6.512					ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.727	6.721	0.006	93	289633	50.0	49.6	
53 1,1,1-Trichloroethane	97		6.740					ND	
54 Cyclohexane	56		6.852					ND	
55 Carbon tetrachloride	117		6.959					ND	
56 1,1-Dichloropropene	75		6.962					ND	
57 Isobutyl alcohol	41		7.119					ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.180	-0.003	83	74130	50.0	52.5	
59 Benzene	78		7.222					ND	7
60 1,2-Dichloroethane	62		7.286					ND	
61 Isopropyl acetate	43		7.303					ND	7
62 Tert-amyl methyl ether	73		7.418					ND	
* 63 Fluorobenzene (IS)	96	7.628	7.624	0.004	99	1165104	50.0	50.0	
64 n-Heptane	43		7.650					ND	7
65 t-Amyl alcohol	73	7.708	7.746	-0.038	1	67		NC	
66 n-Butanol	56		8.013					ND	
67 Trichloroethene	95		8.110					ND	
68 Ethyl acrylate	55		8.158					ND	U
69 Methylcyclohexane	83		8.421					ND	
70 1,2-Dichloropropane	63		8.434					ND	7
71 2-ethoxy-2-methyl butane	87		8.457					ND	
72 Methyl methacrylate	69		8.528					ND	
73 1,4-Dioxane	88		8.534					ND	
74 Dibromomethane	93		8.544					ND	
75 n-Propyl acetate	61		8.605					ND	
76 Dichlorobromomethane	83		8.785					ND	
77 2-Nitropropane	41		9.052					ND	7
78 2-Chloroethyl vinyl ether	63		9.155					ND	
79 cis-1,3-Dichloropropene	75		9.338					ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.518					ND	7
\$ 82 Toluene-d8 (Surr)	98	9.656	9.656	0.000	93	1083623	50.0	51.9	
90 Toluene	92		9.733					ND	
95 trans-1,3-Dichloropropene	75		9.991					ND	7
114 Ethyl methacrylate	69		10.058					ND	
S 115 1,3-Dichloropropene, Total	100		10.060					ND	7
117 1,1,2-Trichloroethane	97		10.193					ND	7
118 Tetrachloroethene	166		10.293					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 1,3-Dichloropropane	76		10.360					ND	7
120 3,4-Dichloro-1-butene	75		10.399					ND	7
121 2-Hexanone	43		10.415					ND	7
122 n-Butyl acetate	43		10.540					ND	
123 Chlorodibromomethane	129		10.576					ND	
124 Ethylene Dibromide	107		10.685					ND	
* 125 Chlorobenzene-d5 (IS)	117	11.126	11.126	0.000	85	823736	50.0	50.0	
127 1-Chlorohexane	91		11.135					ND	U
128 Chlorobenzene	112		11.151					ND	
131 1,1,1,2-Tetrachloroethane	131		11.232					ND	
132 Ethylbenzene	91		11.238					ND	7
S 133 Xylenes, Total	106		11.245					ND	7
134 m-Xylene & p-Xylene	106		11.354					ND	
135 n-Butyl acrylate	55		11.663					ND	
136 o-Xylene	106		11.685					ND	
137 Styrene	104		11.701					ND	
138 Bromoform	173		11.855					ND	
139 Isopropylbenzene	105		11.987					ND	7
140 cis-1,4-Dichloro-2-butene	88		12.029					ND	U
141 Cyclohexanone	55		12.061					ND	7
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	370157	50.0	44.9	
145 1,1,2,2-Tetrachloroethane	83		12.228					ND	7
146 Bromobenzene	156		12.244					ND	
147 trans-1,4-Dichloro-2-butene	53		12.251					ND	7
148 1,2,3-Trichloropropane	110		12.273					ND	
149 N-Propylbenzene	91		12.315					ND	7
150 2-Chlorotoluene	126		12.392					ND	7
151 1,3,5-Trimethylbenzene	105		12.453					ND	7
152 4-Chlorotoluene	126		12.486					ND	
153 2,3,4-Trichlorobutene	109		12.569					ND	
154 tert-Butylbenzene	134		12.695					ND	
155 Pentachloroethane	167		12.727					ND	
156 1,2,4-Trimethylbenzene	105		12.736					ND	7
157 sec-Butylbenzene	105		12.859					ND	7
158 1,3-Dichlorobenzene	146		12.955					ND	7
159 4-Isopropyltoluene	119		12.968					ND	7
* 161 1,4-Dichlorobenzene-d4	152	13.013	13.013	0.000	95	472247	50.0	50.0	
162 1,4-Dichlorobenzene	146		13.029					ND	7
163 1,2,3-Trimethylbenzene	105		13.042					ND	7
164 Benzyl chloride	91		13.106					ND	7
165 1,3-Diethylbenzene	119		13.167					ND	7
166 p-Diethylbenzene	119		13.238					ND	7
167 n-Butylbenzene	92		13.261					ND	7
168 1,2-Dichlorobenzene	146		13.289					ND	7
169 o-diethylbenzene	119		13.312					ND	7
170 Hexachloroethane	201		13.580					ND	
171 1,2-Dibromo-3-Chloropropane	75		13.830					ND	7
172 1,3,5-Trichlorobenzene	180		13.958					ND	7
173 1,2,4-Trichlorobenzene	180		14.383					ND	7
174 2-Ethylhexyl acrylate	55		14.389					ND	
175 Hexachlorobutadiene	225		14.466					ND	7
176 Naphthalene	128		14.559					ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
177 1,2,3-Trichlorobenzene	180		14.704					ND	U
178 2-Methylnaphthalene	142		15.318					ND	7
179 C4-C10	1		0.000					ND	
S 180 Total Diethylbenzene	1		0.000					ND	7
181 C6-C12	1		0.000					ND	
182 1-Bromo-2-chloroethane	1		0.000					ND	
183 Ethyl bromide	1		0.000					ND	
184 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
185 n-Nonane	1		0.000					ND	
S 186 divinyl benzene	1		0.000					ND	7
187 sec-Butyl Alcohol	45		0.000					ND	
188 C4-C12	1		0.000					ND	
189 Isobutyl acetate	43		0.000					ND	
190 Propanol	1		0.000					ND	
191 4-Hydroxy-4-methyl-2-pentanone TIC	1		0.000					ND	
192 Gasoline (Unleaded)	1		0.000					ND	
193 1,1,1,2-Tetrafluoroethane TIC	1		0.000					ND	
194 2,3-Dimethylbutane TIC	1		0.000					ND	
195 2,2-Dimethylbutane TIC	1		0.000					ND	
196 Methylcyclopentane TIC	1		0.000					ND	
197 Decamethylcyclopentasiloxane TIC	1		0.000					ND	
198 Dimethyl Sulfide TIC	1		0.000					ND	
199 2,2-Dimethylpropane TIC	1		0.000					ND	
200 2-Methylhexane TIC	1		0.000					ND	
201 1-Methylnaphthalene (TIC)	1		0.000					ND	
202 3-Methylpentane TIC	1		0.000					ND	
203 1-Methylnaphthalene	142		0.000					ND	
204 3-Pentanone TIC	1		0.000					ND	
205 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
206 tert-Butyl Formate	1		0.000					ND	
207 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
208 n-Decane	57		0.000					ND	
209 Diethoxymethane	1		0.000					ND	
210 Dodecane	57		0.000					ND	
211 Chloroacetonitrile	1		0.000					ND	
212 Butane	1		0.000					ND	
213 3-chloro-1-Butene	1		0.000					ND	
214 1,3-Divinylbenzene	1		0.000					ND	
215 C5-C12	1		0.000					ND	
216 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
217 4-Ethyltoluene	1		0.000					ND	
218 3-chloro-1-Butene TIC	1		0.000					ND	
219 2-Butoxyethyl acetate	1		0.000					ND	
220 sec-Butyl Alcohol TIC	1		0.000					ND	
\$ 221 trans-1,2,3-Trichlorobutene-2 TIC	1		0.000					ND	
222 2-ethoxy-2-methyl butane TIC	1		0.000					ND	
223 Undecane	1		0.000					ND	
224 C6-C10	1		0.000					ND	
225 1,4-Divinylbenzene	1		0.000					ND	
226 n-Octane	1		0.000					ND	
227 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
228 3-Methyl-1-butene	1		0.000					ND	

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X09.D

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 229 Total BTEX	1		0.000					ND	
230 Propene oxide	1		0.000					ND	
231 1-Chlorobutane	1		0.000					ND	
232 Cyclopentane TIC	1		0.000					ND	
233 3-Methylhexane TIC	1		0.000					ND	
234 Methylal	1		0.000					ND	
235 Dimethylformamide TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

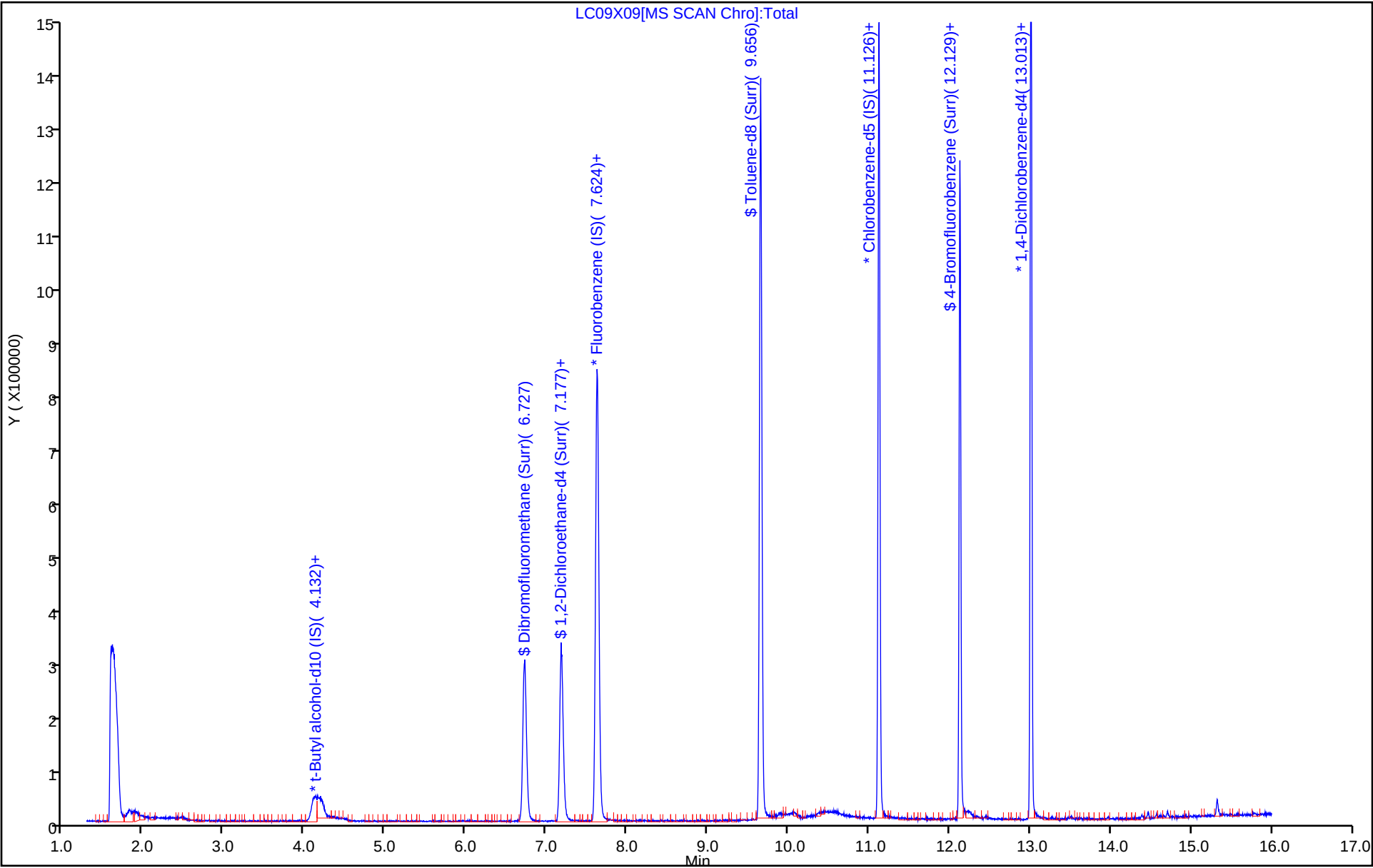
Reagents:

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X09.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 09-Oct-2024 11:33:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127182-010
Operator ID: CLM27445 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 10-Oct-2024 07:41:20 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1653

First Level Reviewer: TQ4J

Date: 09-Oct-2024 12:31:03

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	49.6	99.14
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	52.5	104.98
\$ 82 Toluene-d8 (Surr)	50.0	51.9	103.86
\$ 142 4-Bromofluorobenzene (Surr)	50.0	44.9	89.78

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-560875/4

Matrix: Water

Lab File ID: LC08X33.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5(mL)

Date Analyzed: 10/08/2024 21:12

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	20.3		1.0	0.30
71-55-6	1,1,1-Trichloroethane	17.1		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	22.3		1.0	0.30
79-00-5	1,1,2-Trichloroethane	21.8		1.0	0.30
75-34-3	1,1-Dichloroethane	19.9		1.0	0.30
75-35-4	1,1-Dichloroethene	16.9		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	21.7		1.0	0.20
107-06-2	1,2-Dichloroethane	19.2		1.0	0.30
78-87-5	1,2-Dichloropropane	21.0		1.0	0.30
78-93-3	2-Butanone (MEK)	281		10	0.50
591-78-6	2-Hexanone	308		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	268		10	0.50
67-64-1	Acetone	299		20	0.70
71-43-2	Benzene	19.3		1.0	0.30
74-97-5	Bromochloromethane	19.3		5.0	0.20
75-27-4	Bromodichloromethane	19.6		1.0	0.20
75-25-2	Bromoform	21.2		4.0	1.0
74-83-9	Bromomethane	17.9		1.0	0.30
75-15-0	Carbon disulfide	17.2		5.0	0.30
56-23-5	Carbon tetrachloride	17.6		1.0	0.30
108-90-7	Chlorobenzene	20.6		1.0	0.30
75-00-3	Chloroethane	19.8		1.0	0.30
67-66-3	Chloroform	18.0		1.0	0.30
74-87-3	Chloromethane	21.6		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	18.7		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	17.3		1.0	0.20
124-48-1	Dibromochloromethane	22.0		1.0	0.20
100-41-4	Ethylbenzene	19.4		1.0	0.40
1634-04-4	Methyl tert-butyl ether	17.1		1.0	0.20
75-09-2	Methylene Chloride	17.1		1.0	0.30
100-42-5	Styrene	18.7		5.0	0.30
127-18-4	Tetrachloroethene	19.9		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-560875/4

Matrix: Water

Lab File ID: LC08X33.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5 (mL)

Date Analyzed: 10/08/2024 21:12

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	20.7		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	17.7		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	19.3		1.0	0.20
79-01-6	Trichloroethene	18.1		1.0	0.30
75-01-4	Vinyl chloride	19.3		1.0	0.30
1330-20-7	Xylenes, Total	57.9		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X33.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 08-Oct-2024 21:12:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-004
 Misc. Info.: LCS
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Oct-2024 22:43:39 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: JS6E

Date: 08-Oct-2024 21:58:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.930	1.933	-0.003	99	182853	20.0	18.6	
5 Chloromethane	50	2.136	2.129	0.007	99	236989	20.0	21.6	
6 Butadiene	39	2.226	2.232	-0.006	94	369108	20.0	35.2	
7 Vinyl chloride	62	2.242	2.245	-0.003	98	206484	20.0	19.3	
9 Bromomethane	94	2.570	2.579	-0.009	90	148669	20.0	17.9	
10 Chloroethane	64	2.637	2.641	-0.004	98	111363	20.0	19.8	
11 Dichlorofluoromethane	67	2.875	2.882	-0.007	97	282000	20.0	16.3	
12 Trichlorofluoromethane	101	2.962	2.952	0.010	94	203851	20.0	15.8	
13 Pentane	43	2.952	2.959	-0.007	99	153588	20.0	17.2	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.261	3.264	-0.003	84	140420	20.0	17.6	
17 Acrolein	56	3.316	3.316	0.000	98	259233	150.3	187.8	
18 1,1-Dichloroethene	96	3.470	3.464	0.006	97	99725	20.0	16.9	
19 Acetone	58	3.486	3.480	0.006	100	195085	250.0	298.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.515	3.515	0.000	93	112090	20.0	16.5	
21 Isopropyl alcohol	45	3.663	3.653	0.010	48	85960	150.0	184.5	
22 Iodomethane	142	3.656	3.653	0.003	97	183880	20.0	14.8	
23 Carbon disulfide	76	3.753	3.756	-0.003	100	371508	20.0	17.2	
25 Methyl acetate	43	3.894	3.898	-0.004	98	111573	20.0	23.6	M
26 3-Chloro-1-propene	41	3.923	3.920	0.003	92	131826	20.0	16.0	
27 Methylene Chloride	84	4.110	4.100	0.010	92	122645	20.0	17.1	
* 28 t-Butyl alcohol-d10 (IS)	65	4.113	4.139	-0.026	96	240539	250.0	250.0	
29 2-Methyl-2-propanol	59	4.242	4.235	0.007	97	214991	200.0	247.9	
30 Acrylonitrile	53	4.418	4.419	-0.001	100	306587	100.0	112.9	
31 Methyl tert-butyl ether	73	4.496	4.499	-0.003	90	368000	20.0	17.1	
32 trans-1,2-Dichloroethene	96	4.515	4.505	0.010	98	98206	20.0	17.7	
35 Hexane	57	4.955	4.956	-0.001	92	122404	20.0	18.0	
36 1,1-Dichloroethane	63	5.174	5.171	0.003	97	178031	20.0	19.9	
38 Isopropyl ether	45	5.242	5.239	0.004	95	332545	20.0	18.0	
39 2-Chloro-1,3-butadiene	53	5.290	5.296	-0.006	93	127574	20.0	16.4	
40 Tert-butyl ethyl ether	59	5.782	5.782	0.000	97	332719	20.0	16.9	
41 2-Butanone (MEK)	43	5.991	5.988	0.003	100	989458	250.0	281.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 cis-1,2-Dichloroethene	96	6.020	6.013	0.007	81	113533	20.0	18.7	
43 2,2-Dichloropropane	77	6.033	6.042	-0.009	79	171525	20.0	16.8	
46 Propionitrile	54	6.078	6.074	0.004	98	202112	150.0	208.6	
48 Methacrylonitrile	67	6.290	6.287	0.003	92	490832	150.0	171.5	
49 Chlorobromomethane	128	6.351	6.348	0.003	92	61397	20.0	19.3	
50 Tetrahydrofuran	71	6.367	6.367	0.000	90	107438	100.0	124.1	
51 Chloroform	83	6.502	6.502	0.000	93	180585	20.0	18.0	
\$ 52 Dibromofluoromethane (Surr)	113	6.714	6.718	-0.004	93	268902	50.0	47.6	
53 1,1,1-Trichloroethane	97	6.737	6.737	0.000	82	175937	20.0	17.1	
54 Cyclohexane	56	6.843	6.846	-0.003	91	189039	20.0	16.6	
56 1,1-Dichloropropene	75	6.955	6.952	0.003	96	132654	20.0	18.4	
55 Carbon tetrachloride	117	6.959	6.952	0.007	84	144702	20.0	17.6	
57 Isobutyl alcohol	41	7.110	7.113	-0.003	96	170293	500.0	555.1	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.180	7.171	0.009	81	69601	50.0	51.0	M
59 Benzene	78	7.216	7.216	0.000	96	431650	20.0	19.3	
60 1,2-Dichloroethane	62	7.280	7.280	0.000	97	144836	20.0	19.2	
62 Tert-amyl methyl ether	73	7.409	7.412	-0.003	98	322082	20.0	16.8	
* 63 Fluorobenzene (IS)	96	7.624	7.621	0.003	99	1125520	50.0	50.0	
64 n-Heptane	43	7.643	7.647	-0.004	89	142286	20.0	19.6	
66 n-Butanol	56	8.010	8.007	0.003	93	252139	1000.0	1213.7	
67 Trichloroethene	95	8.100	8.103	-0.003	98	104897	20.0	18.1	
69 Methylcyclohexane	83	8.412	8.418	-0.006	91	183752	20.0	16.2	
70 1,2-Dichloropropane	63	8.434	8.431	0.003	94	116063	20.0	21.0	
71 2-ethoxy-2-methyl butane	87	8.447	8.447	0.000	91	144094	20.0	15.8	
72 Methyl methacrylate	69	8.531	8.528	0.003	94	85104	20.0	18.1	
73 1,4-Dioxane	88	8.534	8.534	0.000	43	44975	500.0	683.2	
74 Dibromomethane	93	8.544	8.541	0.003	95	78075	20.0	19.3	
76 Dichlorobromomethane	83	8.778	8.779	-0.001	98	137490	20.0	19.6	
77 2-Nitropropane	41	9.048	9.049	-0.001	97	29549	20.0	17.6	
78 2-Chloroethyl vinyl ether	63	9.148	9.152	-0.004	91	57953	20.0	28.0	
79 cis-1,3-Dichloropropene	75	9.335	9.338	-0.003	96	149811	20.0	17.3	
80 4-Methyl-2-pentanone (MIBK)	43	9.515	9.515	0.000	96	2222208	250.0	268.1	
\$ 82 Toluene-d8 (Surr)	98	9.650	9.653	-0.003	94	1095818	50.0	53.5	
90 Toluene	92	9.730	9.727	0.003	98	263340	20.0	20.7	
95 trans-1,3-Dichloropropene	75	9.991	9.988	0.003	93	136117	20.0	19.3	
114 Ethyl methacrylate	69	10.058	10.055	0.003	90	148340	20.0	18.6	
117 1,1,2-Trichloroethane	97	10.196	10.193	0.003	90	103184	20.0	21.8	
118 Tetrachloroethene	166	10.286	10.290	-0.004	96	107106	20.0	19.9	
119 1,3-Dichloropropane	76	10.357	10.357	0.000	98	168270	20.0	22.4	
121 2-Hexanone	43	10.415	10.415	0.000	97	1484211	250.0	308.0	
123 Chlorodibromomethane	129	10.576	10.573	0.003	90	110191	20.0	22.0	
124 Ethylene Dibromide	107	10.685	10.682	0.003	98	109991	20.0	21.7	
* 125 Chlorobenzene-d5 (IS)	117	11.122	11.123	0.000	86	809105	50.0	50.0	
127 1-Chlorohexane	91	11.132	11.135	-0.003	96	119541	20.0	16.9	
128 Chlorobenzene	112	11.148	11.151	-0.003	95	291487	20.0	20.6	
131 1,1,1,2-Tetrachloroethane	131	11.232	11.229	0.003	94	117041	20.0	20.3	
132 Ethylbenzene	91	11.238	11.238	0.000	98	504617	20.0	19.4	
134 m-Xylene & p-Xylene	106	11.354	11.354	0.000	100	395442	40.0	38.9	
136 o-Xylene	106	11.685	11.685	0.000	96	208229	20.0	19.0	
137 Styrene	104	11.701	11.698	0.003	95	309870	20.0	18.7	
138 Bromoform	173	11.852	11.852	0.000	96	77978	20.0	21.2	
139 Isopropylbenzene	105	11.987	11.987	0.000	95	564264	20.0	20.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 142 4-Bromofluorobenzene (Surr)	95	12.126	12.129	-0.003	91	373740	50.0	46.1	
145 1,1,2,2-Tetrachloroethane	83	12.228	12.229	-0.001	94	189718	20.0	22.3	
146 Bromobenzene	156	12.244	12.245	-0.001	95	129485	20.0	20.1	
147 trans-1,4-Dichloro-2-butene	53	12.254	12.254	0.000	84	54070	100.0	24.7	
148 1,2,3-Trichloropropane	110	12.273	12.274	-0.001	83	53530	20.0	21.1	
149 N-Propylbenzene	91	12.315	12.315	0.000	99	628826	20.0	19.8	
150 2-Chlorotoluene	126	12.392	12.389	0.003	97	130571	20.0	19.8	
151 1,3,5-Trimethylbenzene	105	12.453	12.454	-0.001	94	484849	20.0	19.4	
152 4-Chlorotoluene	126	12.486	12.483	0.003	97	124778	20.0	19.7	
154 tert-Butylbenzene	134	12.695	12.695	0.000	93	93494	20.0	20.4	
156 1,2,4-Trimethylbenzene	105	12.736	12.737	-0.001	97	491335	20.0	19.4	
157 sec-Butylbenzene	105	12.859	12.859	0.000	94	639918	20.0	20.3	
158 1,3-Dichlorobenzene	146	12.958	12.955	0.003	98	264606	20.0	20.6	
159 4-Isopropyltoluene	119	12.968	12.965	0.003	97	532137	20.0	19.2	
* 161 1,4-Dichlorobenzene-d4	152	13.010	13.013	-0.003	94	465575	50.0	50.0	
162 1,4-Dichlorobenzene	146	13.029	13.029	0.000	96	274239	20.0	21.0	
163 1,2,3-Trimethylbenzene	105	13.039	13.039	0.000	98	528753	20.0	19.3	
164 Benzyl chloride	91	13.106	13.106	0.000	98	335702	20.0	20.2	
165 1,3-Diethylbenzene	119	13.167	13.167	0.000	95	314188	20.0	19.3	
166 p-Diethylbenzene	119	13.238	13.238	0.000	95	332714	20.0	19.6	
167 n-Butylbenzene	92	13.257	13.257	0.000	97	273547	20.0	20.1	
168 1,2-Dichlorobenzene	146	13.289	13.286	0.003	99	290708	20.0	21.2	
169 o-diethylbenzene	119	13.309	13.309	0.000	95	269091	20.0	19.7	
171 1,2-Dibromo-3-Chloropropane	75	13.826	13.827	-0.001	84	43224	20.0	19.5	
172 1,3,5-Trichlorobenzene	180	13.958	13.958	0.000	98	236488	20.0	21.4	
173 1,2,4-Trichlorobenzene	180	14.379	14.380	-0.001	94	241491	20.0	21.6	
175 Hexachlorobutadiene	225	14.466	14.466	0.000	97	86565	20.0	21.1	
176 Naphthalene	128	14.563	14.560	0.003	96	781004	20.0	20.2	
177 1,2,3-Trichlorobenzene	180	14.704	14.704	0.000	96	247009	20.0	21.1	
178 2-Methylnaphthalene	142	15.322	15.318	0.004	92	404614	20.0	17.8	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00188

Amount Added: 50.00

Units: uL

MSV_LCS_2CEVE_00193

Amount Added: 50.00

Units: uL

MSV_LCS_ACROL_00192

Amount Added: 50.00

Units: uL

MSV_LCS_Gases_00219

Amount Added: 50.00

Units: uL

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 08-Oct-2024 22:43:43

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X33.D

Injection Date: 08-Oct-2024 21:12:30

Instrument ID: 9915

Operator ID: gaw91131

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

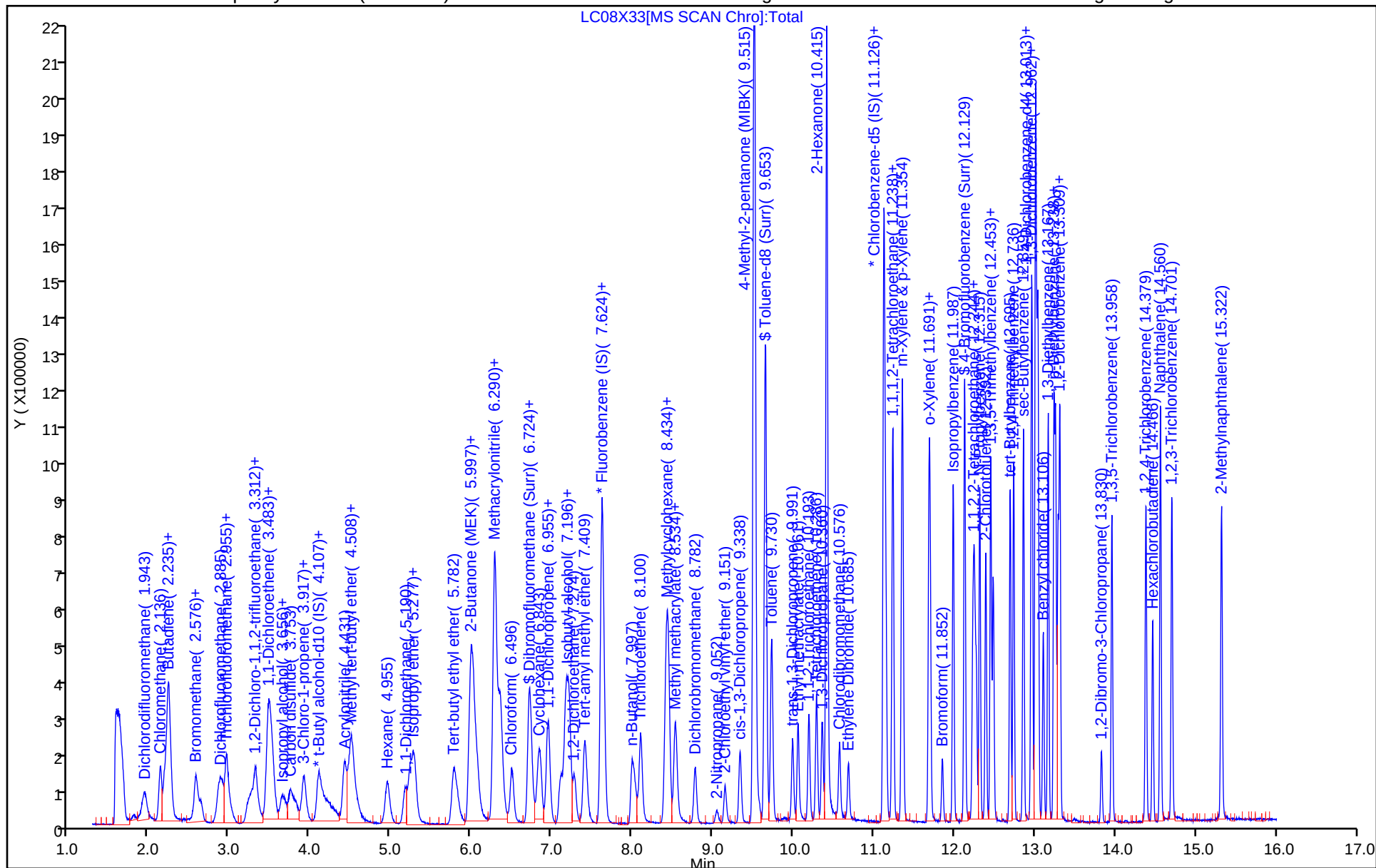
ALS Bottle#: 3

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X33.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 08-Oct-2024 21:12:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-004
Misc. Info.: LCS
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 08-Oct-2024 22:43:39 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1611

First Level Reviewer: JS6E

Date: 08-Oct-2024 21:58:03

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	47.6	95.28
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	51.0	102.03
\$ 82 Toluene-d8 (Surr)	50.0	53.5	106.93
\$ 142 4-Bromofluorobenzene (Surr)	50.0	46.1	92.29

Eurofins Lancaster Laboratories Environment Testing, LLC

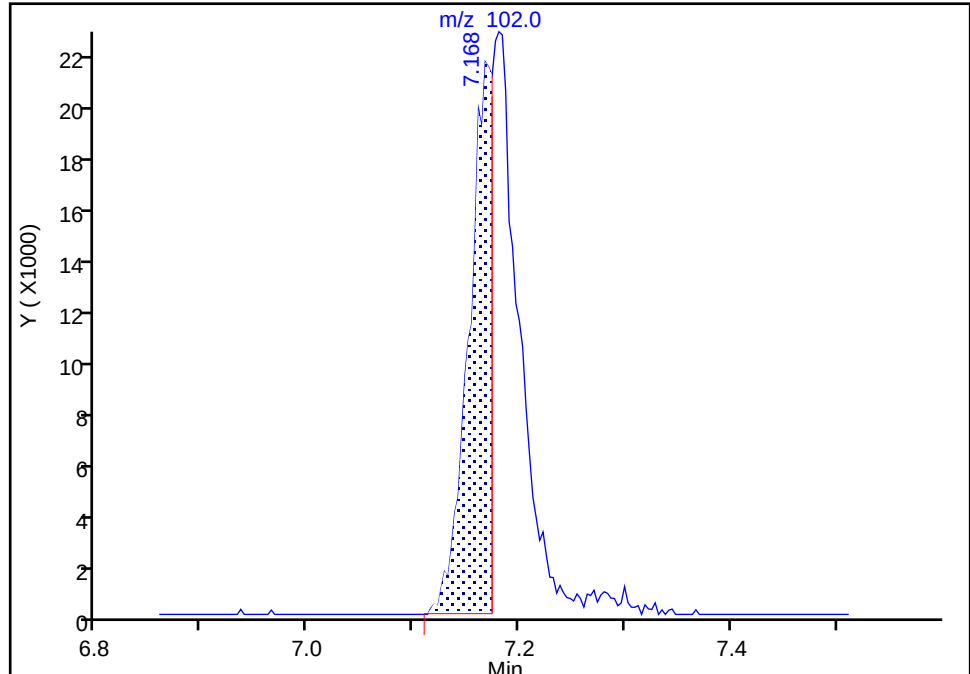
Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X33.D
Injection Date: 08-Oct-2024 21:12:30 Instrument ID: 9915
Lims ID: LCS
Client ID:
Operator ID: gaw91131 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

\$ 58 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

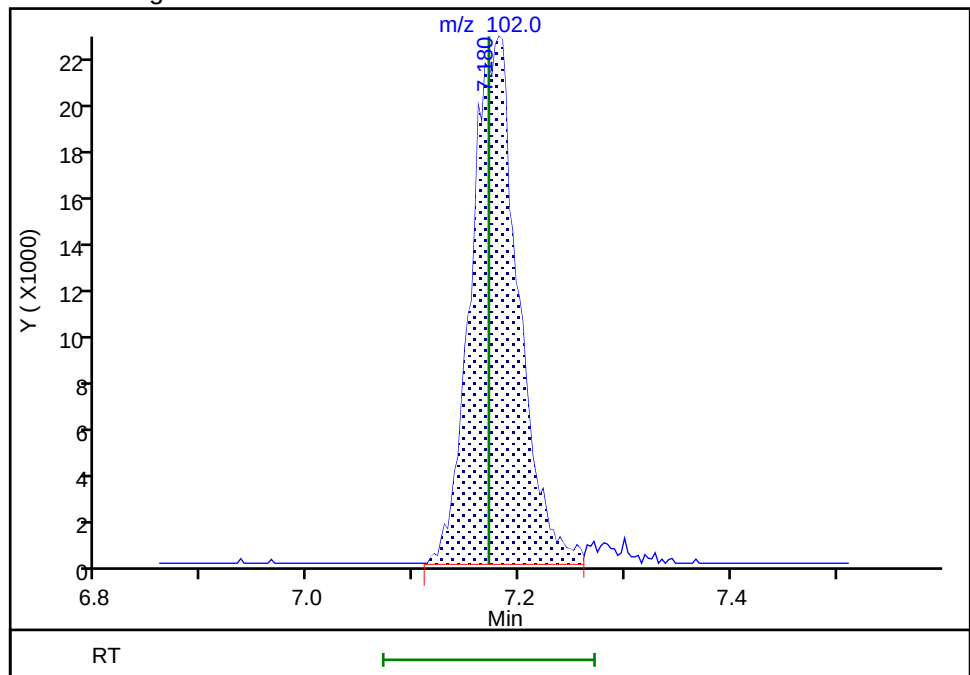
RT: 7.17
Area: 32883
Amount: 24.102774
Amount Units: ug/l

Processing Integration Results



RT: 7.18
Area: 69601
Amount: 51.016550
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 08-Oct-2024 21:38:13 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-560989/7

Matrix: Water

Lab File ID: LC09X06.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5(mL)

Date Analyzed: 10/09/2024 10:26

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560989

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	20.6		1.0	0.30
71-55-6	1,1,1-Trichloroethane	17.9		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	22.6		1.0	0.30
79-00-5	1,1,2-Trichloroethane	22.2		1.0	0.30
75-34-3	1,1-Dichloroethane	21.1		1.0	0.30
75-35-4	1,1-Dichloroethene	18.8		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	20.7		1.0	0.20
107-06-2	1,2-Dichloroethane	19.6		1.0	0.30
78-87-5	1,2-Dichloropropane	21.5		1.0	0.30
78-93-3	2-Butanone (MEK)	274		10	0.50
591-78-6	2-Hexanone	281		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	260		10	0.50
67-64-1	Acetone	289		20	0.70
71-43-2	Benzene	20.2		1.0	0.30
74-97-5	Bromochloromethane	19.6		5.0	0.20
75-27-4	Bromodichloromethane	19.5		1.0	0.20
75-25-2	Bromoform	19.8		4.0	1.0
74-83-9	Bromomethane	17.1		1.0	0.30
75-15-0	Carbon disulfide	19.4		5.0	0.30
56-23-5	Carbon tetrachloride	18.3		1.0	0.30
108-90-7	Chlorobenzene	20.3		1.0	0.30
75-00-3	Chloroethane	19.8		1.0	0.30
67-66-3	Chloroform	18.9		1.0	0.30
74-87-3	Chloromethane	20.5		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	19.6		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	17.8		1.0	0.20
124-48-1	Dibromochloromethane	21.9		1.0	0.20
100-41-4	Ethylbenzene	19.6		1.0	0.40
1634-04-4	Methyl tert-butyl ether	17.1		1.0	0.20
75-09-2	Methylene Chloride	18.8		1.0	0.30
100-42-5	Styrene	18.2		5.0	0.30
127-18-4	Tetrachloroethene	20.2		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-560989/7

Matrix: Water Lab File ID: LC09X06.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2024 10:26

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 560989 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	20.6		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	19.2		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	19.7		1.0	0.20
79-01-6	Trichloroethene	18.8		1.0	0.30
75-01-4	Vinyl chloride	18.5		1.0	0.30
1330-20-7	Xylenes, Total	58.0		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X06.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 09-Oct-2024 10:26:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127182-007
 Misc. Info.: MB
 Operator ID: CLM27445 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 10:51:48 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 11:05:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.956	1.949	0.007	100	175002	20.0	17.2	
5 Chloromethane	50	2.152	2.145	0.007	99	232171	20.0	20.5	
6 Butadiene	39	2.242	2.248	-0.006	92	366266	20.0	33.7	
7 Vinyl chloride	62	2.258	2.251	0.007	98	204988	20.0	18.5	
9 Bromomethane	94	2.592	2.589	0.003	90	147085	20.0	17.1	
10 Chloroethane	64	2.644	2.653	-0.009	99	114891	20.0	19.8	
11 Dichlorofluoromethane	67	2.907	2.907	0.000	96	287208	20.0	16.1	
12 Trichlorofluoromethane	101	2.972	2.968	0.004	95	207716	20.0	15.5	
13 Pentane	43	2.972	2.975	-0.003	97	176840	20.0	19.1	
15 Ethyl ether	59	3.174	3.171	0.003	92	95194	19.9	21.8	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.290	3.274	0.016	84	144504	20.0	17.5	
17 Acrolein	56	3.332	3.332	0.000	100	272908	150.3	187.4	
18 1,1-Dichloroethene	96	3.477	3.476	0.000	97	115062	20.0	18.8	
19 Acetone	58	3.496	3.492	0.004	100	199081	250.0	289.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.531	3.528	0.003	93	126060	20.0	17.9	
21 Isopropyl alcohol	45	3.663	3.663	0.000	43	83262	150.0	169.4	
22 Iodomethane	142	3.673	3.669	0.004	98	206759	20.0	16.1	
23 Carbon disulfide	76	3.769	3.769	0.000	99	436202	20.0	19.4	
25 Methyl acetate	43	3.904	3.910	-0.006	97	120443	20.0	24.6	
26 3-Chloro-1-propene	41	3.933	3.933	0.000	91	155742	20.0	18.2	
* 28 t-Butyl alcohol-d10 (IS)	65	4.132	4.116	0.016	93	253812	250.0	250.0	
27 Methylene Chloride	84	4.129	4.116	0.013	94	139294	20.0	18.8	
29 2-Methyl-2-propanol	59	4.235	4.261	-0.026	97	214564	200.0	234.5	
30 Acrylonitrile	53	4.438	4.431	0.007	98	316381	100.0	112.4	
31 Methyl tert-butyl ether	73	4.518	4.512	0.006	90	381241	20.0	17.1	
32 trans-1,2-Dichloroethene	96	4.528	4.525	0.003	99	110149	20.0	19.2	
35 Hexane	57	4.962	4.965	-0.003	94	136820	20.0	19.4	
36 1,1-Dichloroethane	63	5.184	5.180	0.004	96	195831	20.0	21.1	
38 Isopropyl ether	45	5.264	5.254	0.010	96	353907	20.0	18.5	
39 2-Chloro-1,3-butadiene	53	5.300	5.299	0.001	91	140592	20.0	17.5	
40 Tert-butyl ethyl ether	59	5.804	5.795	0.009	99	341082	20.0	16.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.997	6.007	-0.010	99	1000902	250.0	274.4	
42 cis-1,2-Dichloroethene	96	6.023	6.023	0.000	80	123148	20.0	19.6	
43 2,2-Dichloropropane	77	6.058	6.045	0.013	88	188039	20.0	17.8	
46 Propionitrile	54	6.078	6.081	-0.003	98	209311	150.0	204.8	
48 Methacrylonitrile	67	6.300	6.299	0.001	92	514507	150.0	173.5	
49 Chlorobromomethane	128	6.354	6.351	0.003	91	64526	20.0	19.6	
50 Tetrahydrofuran	71	6.380	6.370	0.010	84	109449	100.0	119.9	
51 Chloroform	83	6.515	6.512	0.003	93	196101	20.0	18.9	
\$ 52 Dibromofluoromethane (Surr)	113	6.724	6.721	0.003	94	283345	50.0	48.4	
53 1,1,1-Trichloroethane	97	6.746	6.740	0.006	96	190453	20.0	17.9	
54 Cyclohexane	56	6.859	6.852	0.007	90	210255	20.0	17.8	
55 Carbon tetrachloride	117	6.959	6.959	0.001	85	155961	20.0	18.3	
56 1,1-Dichloropropene	75	6.959	6.962	-0.003	96	143508	20.0	19.2	
57 Isobutyl alcohol	41	7.123	7.119	0.004	90	163398	500.0	504.8	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.180	-0.003	87	72732	50.0	51.5	
59 Benzene	78	7.219	7.222	-0.003	97	466869	20.0	20.2	
60 1,2-Dichloroethane	62	7.283	7.286	-0.003	97	153112	20.0	19.6	
62 Tert-amyl methyl ether	73	7.418	7.418	0.000	99	330722	20.0	16.6	
* 63 Fluorobenzene (IS)	96	7.627	7.624	0.003	99	1166218	50.0	50.0	
64 n-Heptane	43	7.650	7.650	0.000	93	154626	20.0	20.6	
66 n-Butanol	56	8.010	8.013	-0.003	90	234872	1000.0	1071.5	
67 Trichloroethene	95	8.110	8.110	0.000	98	112786	20.0	18.8	
69 Methylcyclohexane	83	8.415	8.421	-0.006	90	198201	20.0	16.8	
70 1,2-Dichloropropane	63	8.438	8.434	0.004	97	123411	20.0	21.5	
71 2-ethoxy-2-methyl butane	87	8.454	8.457	-0.003	90	154462	20.0	16.4	
72 Methyl methacrylate	69	8.528	8.528	0.000	93	86590	20.0	17.8	
73 1,4-Dioxane	88	8.534	8.534	0.000	39	38568	500.0	555.2	
74 Dibromomethane	93	8.544	8.544	0.000	96	80613	20.0	19.2	
76 Dichlorobromomethane	83	8.785	8.785	0.000	99	141788	20.0	19.5	
77 2-Nitropropane	41	9.052	9.052	0.000	95	31752	20.0	17.9	
78 2-Chloroethyl vinyl ether	63	9.158	9.155	0.003	91	58604	20.0	27.3	
79 cis-1,3-Dichloropropene	75	9.341	9.338	0.003	96	159801	20.0	17.8	
80 4-Methyl-2-pentanone (MIBK)	43	9.518	9.518	0.000	97	2235142	250.0	260.3	
\$ 82 Toluene-d8 (Surr)	98	9.656	9.656	0.000	93	1130342	50.0	53.1	
90 Toluene	92	9.737	9.733	0.004	99	272954	20.0	20.6	
95 trans-1,3-Dichloropropene	75	9.994	9.991	0.003	93	143888	20.0	19.7	
114 Ethyl methacrylate	69	10.061	10.058	0.003	90	150320	20.0	18.1	
117 1,1,2-Trichloroethane	97	10.196	10.193	0.003	89	108722	20.0	22.2	
118 Tetrachloroethene	166	10.290	10.293	-0.003	97	113159	20.0	20.2	
119 1,3-Dichloropropane	76	10.357	10.360	-0.003	92	168757	20.0	21.6	
121 2-Hexanone	43	10.415	10.415	0.000	97	1407615	250.0	281.4	
123 Chlorodibromomethane	129	10.576	10.576	0.000	90	113614	20.0	21.9	
124 Ethylene Dibromide	107	10.685	10.685	0.000	99	109032	20.0	20.7	
* 125 Chlorobenzene-d5 (IS)	117	11.123	11.126	-0.004	85	839831	50.0	50.0	
127 1-Chlorohexane	91	11.139	11.135	0.004	99	127020	20.0	17.3	
128 Chlorobenzene	112	11.151	11.151	0.000	95	297770	20.0	20.3	
131 1,1,1,2-Tetrachloroethane	131	11.232	11.232	0.000	97	123065	20.0	20.6	
132 Ethylbenzene	91	11.238	11.238	0.000	98	529012	20.0	19.6	
134 m-Xylene & p-Xylene	106	11.354	11.354	0.000	100	410784	40.0	38.9	
136 o-Xylene	106	11.685	11.685	0.000	96	216776	20.0	19.1	
137 Styrene	104	11.698	11.701	-0.003	94	312996	20.0	18.2	
138 Bromoform	173	11.856	11.855	0.001	96	75596	20.0	19.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
139 Isopropylbenzene	105	11.987	11.987	0.000	96	592125	20.0	20.7	
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	90	377244	50.0	44.9	
145 1,1,2,2-Tetrachloroethane	83	12.229	12.228	0.001	93	188912	20.0	22.6	
146 Bromobenzene	156	12.245	12.244	0.001	96	132325	20.0	20.8	
147 trans-1,4-Dichloro-2-butene	53	12.254	12.251	0.003	81	58357	100.0	27.2	
148 1,2,3-Trichloropropane	110	12.274	12.273	0.001	83	52862	20.0	21.2	
149 N-Propylbenzene	91	12.315	12.315	0.000	99	657889	20.0	21.1	
150 2-Chlorotoluene	126	12.389	12.392	-0.003	97	134835	20.0	20.8	
151 1,3,5-Trimethylbenzene	105	12.454	12.453	0.001	95	503476	20.0	20.4	
152 4-Chlorotoluene	126	12.483	12.486	-0.003	97	125996	20.0	20.2	
154 tert-Butylbenzene	134	12.695	12.695	0.000	93	98307	20.0	21.8	
156 1,2,4-Trimethylbenzene	105	12.737	12.736	0.001	97	502384	20.0	20.1	
157 sec-Butylbenzene	105	12.859	12.859	0.000	94	678738	20.0	21.9	
158 1,3-Dichlorobenzene	146	12.958	12.955	0.003	99	267011	20.0	21.1	
159 4-Isopropyltoluene	119	12.965	12.968	-0.003	97	557682	20.0	20.4	
* 161 1,4-Dichlorobenzene-d4	152	13.010	13.013	-0.003	95	457872	50.0	50.0	
162 1,4-Dichlorobenzene	146	13.029	13.029	0.000	96	271828	20.0	21.1	
163 1,2,3-Trimethylbenzene	105	13.042	13.042	0.000	98	538646	20.0	20.0	
164 Benzyl chloride	91	13.106	13.106	0.000	98	328772	20.0	20.1	
165 1,3-Diethylbenzene	119	13.167	13.167	0.000	95	324130	20.0	20.2	
166 p-Diethylbenzene	119	13.238	13.238	0.000	94	341307	20.0	20.4	
167 n-Butylbenzene	92	13.257	13.261	-0.003	97	289323	20.0	21.7	
168 1,2-Dichlorobenzene	146	13.290	13.289	0.001	98	284542	20.0	21.1	
169 o-diethylbenzene	119	13.312	13.312	0.000	95	280656	20.0	20.9	
171 1,2-Dibromo-3-Chloropropane	75	13.830	13.830	0.000	85	43316	20.0	19.8	
172 1,3,5-Trichlorobenzene	180	13.958	13.958	0.000	98	231625	20.0	21.3	
173 1,2,4-Trichlorobenzene	180	14.380	14.383	-0.003	94	235811	20.0	21.5	
175 Hexachlorobutadiene	225	14.466	14.466	0.000	98	91209	20.0	22.6	
176 Naphthalene	128	14.563	14.559	0.004	97	748232	20.0	19.7	
177 1,2,3-Trichlorobenzene	180	14.701	14.704	-0.003	96	238698	20.0	20.8	
178 2-Methylnaphthalene	142	15.322	15.318	0.004	92	389537	20.0	17.4	

QC Flag Legend

Processing Flags

Reagents:

MSV_LCS_VOC#1_00188	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00193	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00192	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00219	Amount Added: 50.00	Units: uL	
MSV_LCS_EE_00009	Amount Added: 50.00	Units: uL	
MSV_HP23_ISSS_00014	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 09-Oct-2024 11:07:55

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X06.D

Injection Date: 09-Oct-2024 10:26:30

Instrument ID: 9915

Operator ID: CLM27445

Lims ID: LCS

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

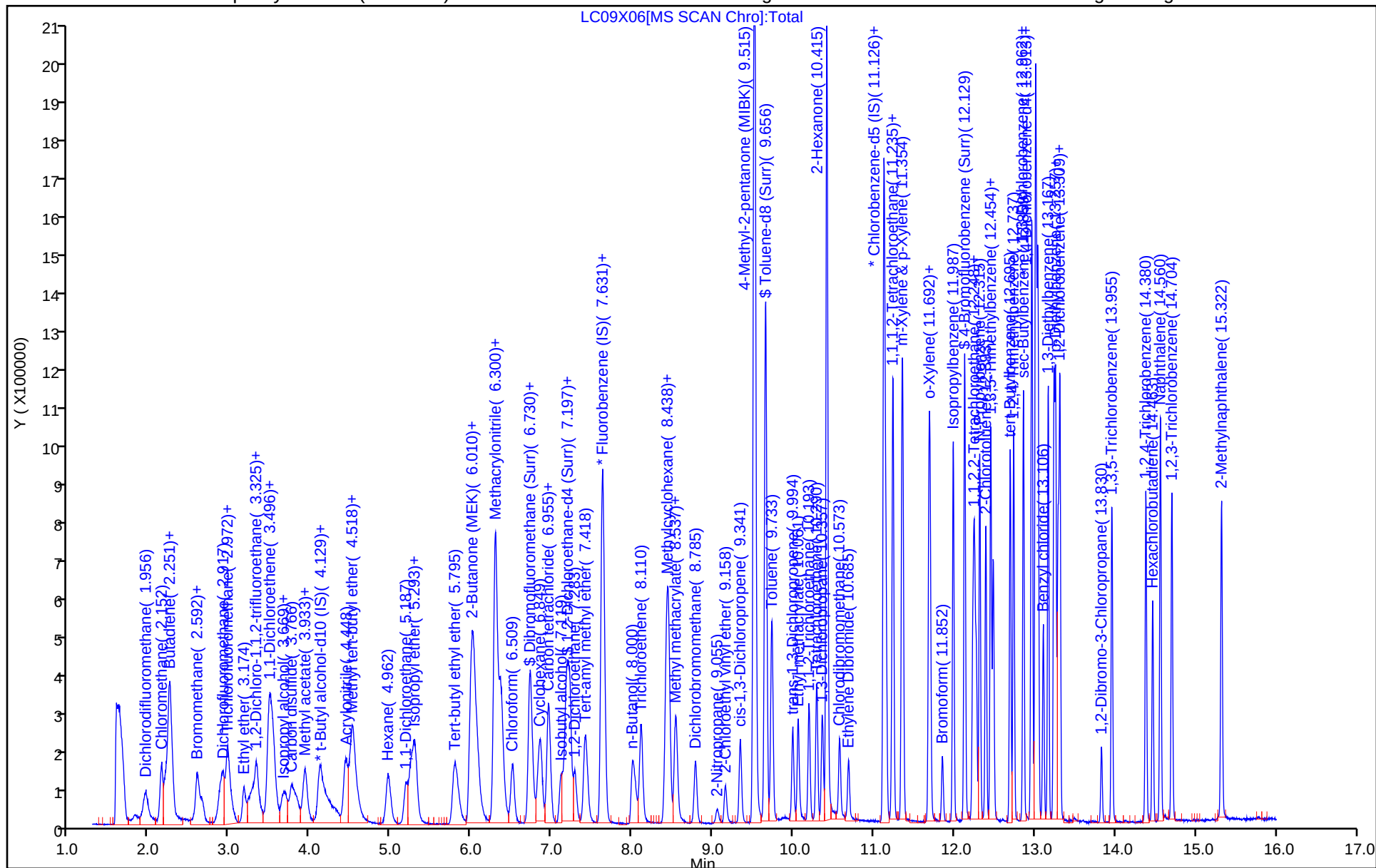
ALS Bottle#: 6

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X06.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 09-Oct-2024 10:26:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127182-007
Misc. Info.: MB
Operator ID: CLM27445 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 10:51:48 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 11:05:23

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	48.4	96.89
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	51.5	102.90
\$ 82 Toluene-d8 (Surr)	50.0	53.1	106.26
\$ 142 4-Bromofluorobenzene (Surr)	50.0	44.9	89.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCSD 410-560989/8

Matrix: Water

Lab File ID: LC09X07.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5(mL)

Date Analyzed: 10/09/2024 10:48

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560989

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	20.8		1.0	0.30
71-55-6	1,1,1-Trichloroethane	17.9		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	21.8		1.0	0.30
79-00-5	1,1,2-Trichloroethane	22.4		1.0	0.30
75-34-3	1,1-Dichloroethane	21.1		1.0	0.30
75-35-4	1,1-Dichloroethene	18.2		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	21.1		1.0	0.20
107-06-2	1,2-Dichloroethane	19.3		1.0	0.30
78-87-5	1,2-Dichloropropane	21.6		1.0	0.30
78-93-3	2-Butanone (MEK)	274		10	0.50
591-78-6	2-Hexanone	295		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	264		10	0.50
67-64-1	Acetone	290		20	0.70
71-43-2	Benzene	20.5		1.0	0.30
74-97-5	Bromochloromethane	19.1		5.0	0.20
75-27-4	Bromodichloromethane	19.7		1.0	0.20
75-25-2	Bromoform	20.1		4.0	1.0
74-83-9	Bromomethane	17.5		1.0	0.30
75-15-0	Carbon disulfide	19.3		5.0	0.30
56-23-5	Carbon tetrachloride	18.8		1.0	0.30
108-90-7	Chlorobenzene	20.9		1.0	0.30
75-00-3	Chloroethane	19.7		1.0	0.30
67-66-3	Chloroform	18.6		1.0	0.30
74-87-3	Chloromethane	20.8		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	19.7		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	18.0		1.0	0.20
124-48-1	Dibromochloromethane	21.8		1.0	0.20
100-41-4	Ethylbenzene	20.4		1.0	0.40
1634-04-4	Methyl tert-butyl ether	16.9		1.0	0.20
75-09-2	Methylene Chloride	18.1		1.0	0.30
100-42-5	Styrene	19.2		5.0	0.30
127-18-4	Tetrachloroethene	20.8		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCSD 410-560989/8

Matrix: Water

Lab File ID: LC09X07.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 10:48

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560989

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	21.8		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	19.0		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	19.8		1.0	0.20
79-01-6	Trichloroethene	19.1		1.0	0.30
75-01-4	Vinyl chloride	18.9		1.0	0.30
1330-20-7	Xylenes, Total	59.7		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X07.D
 Lims ID: LCS D
 Client ID:
 Sample Type: LCS D
 Inject. Date: 09-Oct-2024 10:48:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127182-008
 Operator ID: CLM27445 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 09:10:03 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 11:11:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.943	1.949	-0.006	100	181783	20.0	18.0	
5 Chloromethane	50	2.136	2.145	-0.009	99	233372	20.0	20.8	
6 Butadiene	39	2.235	2.248	-0.013	92	372342	20.0	34.6	
7 Vinyl chloride	62	2.239	2.251	-0.012	97	207739	20.0	18.9	
9 Bromomethane	94	2.576	2.589	-0.013	90	149038	20.0	17.5	
10 Chloroethane	64	2.647	2.653	-0.006	98	113487	20.0	19.7	
11 Dichlorofluoromethane	67	2.898	2.907	-0.009	96	290773	20.0	16.4	
12 Trichlorofluoromethane	101	2.952	2.968	-0.016	95	208734	20.0	15.8	
13 Pentane	43	2.956	2.975	-0.019	98	174128	20.0	19.0	
15 Ethyl ether	59	3.161	3.171	-0.010	93	93111	19.9	21.6	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.277	3.274	0.003	87	147766	20.0	18.1	
17 Acrolein	56	3.322	3.332	-0.010	99	262665	150.3	182.7	
18 1,1-Dichloroethene	96	3.467	3.476	-0.009	97	110433	20.0	18.2	
19 Acetone	58	3.480	3.492	-0.012	100	197155	250.0	290.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.509	3.528	-0.019	93	122075	20.0	17.5	
21 Isopropyl alcohol	45	3.669	3.663	0.006	43	83311	150.0	171.7	
22 Iodomethane	142	3.666	3.669	-0.003	96	202047	20.0	15.9	
23 Carbon disulfide	76	3.766	3.769	-0.003	99	427449	20.0	19.3	
25 Methyl acetate	43	3.888	3.910	-0.022	99	111029	20.0	22.9	
26 3-Chloro-1-propene	41	3.927	3.933	-0.006	95	142249	20.0	16.8	
* 28 t-Butyl alcohol-d10 (IS)	65	4.116	4.116	0.000	95	250575	250.0	250.0	
27 Methylene Chloride	84	4.103	4.116	-0.013	93	132773	20.0	18.1	
29 2-Methyl-2-propanol	59	4.245	4.261	-0.016	96	212243	200.0	234.9	
30 Acrylonitrile	53	4.425	4.431	-0.006	100	307712	100.0	110.6	
31 Methyl tert-butyl ether	73	4.499	4.512	-0.013	89	373502	20.0	16.9	
32 trans-1,2-Dichloroethene	96	4.512	4.525	-0.013	98	107618	20.0	19.0	
35 Hexane	57	4.955	4.965	-0.010	91	136542	20.0	19.6	
36 1,1-Dichloroethane	63	5.177	5.180	-0.003	96	193813	20.0	21.1	
38 Isopropyl ether	45	5.248	5.254	-0.006	96	350275	20.0	18.5	
39 2-Chloro-1,3-butadiene	53	5.287	5.299	-0.012	91	137640	20.0	17.3	
40 Tert-butyl ethyl ether	59	5.785	5.795	-0.010	99	338991	20.0	16.8	
41 2-Butanone (MEK)	43	5.988	6.007	-0.019	100	989185	250.0	274.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 cis-1,2-Dichloroethene	96	6.013	6.023	-0.010	79	122216	20.0	19.7	
43 2,2-Dichloropropane	77	6.049	6.045	0.004	89	190863	20.0	18.2	
46 Propionitrile	54	6.068	6.081	-0.013	98	208296	150.0	206.4	
48 Methacrylonitrile	67	6.293	6.299	-0.006	92	501619	150.0	171.0	
49 Chlorobromomethane	128	6.351	6.351	0.000	90	62443	20.0	19.1	
50 Tetrahydrofuran	71	6.370	6.370	0.000	97	106746	100.0	118.4	
51 Chloroform	83	6.502	6.512	-0.010	93	191700	20.0	18.6	
\$ 52 Dibromofluoromethane (Surr)	113	6.721	6.721	0.000	93	274479	50.0	47.5	
53 1,1,1-Trichloroethane	97	6.743	6.740	0.003	95	188471	20.0	17.9	
54 Cyclohexane	56	6.852	6.852	0.000	89	212690	20.0	18.2	
55 Carbon tetrachloride	117	6.952	6.959	-0.006	87	157860	20.0	18.8	
56 1,1-Dichloropropene	75	6.952	6.962	-0.010	96	146154	20.0	19.8	
57 Isobutyl alcohol	41	7.110	7.119	-0.009	95	165886	500.0	519.1	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.180	-0.003	91	69441	50.0	49.7	
59 Benzene	78	7.219	7.222	-0.003	96	468326	20.0	20.5	
60 1,2-Dichloroethane	62	7.280	7.286	-0.006	97	149262	20.0	19.3	
62 Tert-amyl methyl ether	73	7.418	7.418	0.000	99	332250	20.0	16.9	
* 63 Fluorobenzene (IS)	96	7.621	7.624	-0.003	99	1153176	50.0	50.0	
64 n-Heptane	43	7.643	7.650	-0.007	54	152347	20.0	20.5	
66 n-Butanol	56	8.007	8.013	-0.006	92	237829	1000.0	1099.0	
67 Trichloroethene	95	8.106	8.110	-0.004	98	113178	20.0	19.1	
69 Methylcyclohexane	83	8.425	8.421	0.004	89	197986	20.0	17.0	
70 1,2-Dichloropropane	63	8.428	8.434	-0.006	87	122585	20.0	21.6	
71 2-ethoxy-2-methyl butane	87	8.450	8.457	-0.007	91	152258	20.0	16.3	
72 Methyl methacrylate	69	8.528	8.528	0.000	92	90249	20.0	18.8	
73 1,4-Dioxane	88	8.521	8.534	-0.013	40	38242	500.0	557.6	
74 Dibromomethane	93	8.534	8.544	-0.010	98	78178	20.0	18.8	
76 Dichlorobromomethane	83	8.785	8.785	0.000	98	141862	20.0	19.7	
77 2-Nitropropane	41	9.058	9.052	0.006	98	34839	20.0	19.9	
78 2-Chloroethyl vinyl ether	63	9.158	9.155	0.003	91	61280	20.0	28.9	
79 cis-1,3-Dichloropropene	75	9.341	9.338	0.003	96	159581	20.0	18.0	
80 4-Methyl-2-pentanone (MIBK)	43	9.518	9.518	0.000	97	2239914	250.0	263.8	
\$ 82 Toluene-d8 (Surr)	98	9.653	9.656	-0.003	93	1126877	50.0	53.3	
90 Toluene	92	9.727	9.733	-0.006	99	285884	20.0	21.8	
95 trans-1,3-Dichloropropene	75	9.991	9.991	0.000	92	144333	20.0	19.8	
114 Ethyl methacrylate	69	10.058	10.058	0.000	90	153224	20.0	18.6	
117 1,1,2-Trichloroethane	97	10.193	10.193	0.000	89	109237	20.0	22.4	
118 Tetrachloroethene	166	10.286	10.293	-0.007	96	115231	20.0	20.8	
119 1,3-Dichloropropane	76	10.360	10.360	0.000	93	172488	20.0	22.2	
121 2-Hexanone	43	10.415	10.415	0.000	97	1463580	250.0	294.5	
123 Chlorodibromomethane	129	10.573	10.576	-0.003	90	112153	20.0	21.8	
124 Ethylene Dibromide	107	10.685	10.685	0.000	98	110515	20.0	21.1	
* 125 Chlorobenzene-d5 (IS)	117	11.122	11.126	-0.004	86	834326	50.0	50.0	
127 1-Chlorohexane	91	11.135	11.135	0.000	98	130247	20.0	17.9	
128 Chlorobenzene	112	11.151	11.151	0.000	95	305293	20.0	20.9	
131 1,1,1,2-Tetrachloroethane	131	11.232	11.232	0.000	94	123950	20.0	20.8	
132 Ethylbenzene	91	11.238	11.238	0.000	98	547056	20.0	20.4	
134 m-Xylene & p-Xylene	106	11.354	11.354	0.000	100	423492	40.0	40.4	
136 o-Xylene	106	11.685	11.685	0.000	97	217915	20.0	19.3	
137 Styrene	104	11.698	11.701	-0.003	94	327652	20.0	19.2	
138 Bromoform	173	11.856	11.855	0.001	96	76019	20.0	20.1	
139 Isopropylbenzene	105	11.987	11.987	0.000	95	607673	20.0	21.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	90	388370	50.0	46.5	
145 1,1,2,2-Tetrachloroethane	83	12.228	12.228	0.000	95	188007	20.0	21.8	
146 Bromobenzene	156	12.245	12.244	0.001	95	133882	20.0	20.4	
147 trans-1,4-Dichloro-2-butene	53	12.254	12.251	0.003	84	57169	100.0	25.8	
148 1,2,3-Trichloropropane	110	12.277	12.273	0.004	85	52856	20.0	20.5	
149 N-Propylbenzene	91	12.315	12.315	0.000	99	680342	20.0	21.2	
150 2-Chlorotoluene	126	12.389	12.392	-0.003	97	138800	20.0	20.7	
151 1,3,5-Trimethylbenzene	105	12.450	12.453	-0.003	94	513607	20.0	20.2	
152 4-Chlorotoluene	126	12.482	12.486	-0.004	97	129876	20.0	20.2	
154 tert-Butylbenzene	134	12.695	12.695	0.000	93	100208	20.0	21.5	
156 1,2,4-Trimethylbenzene	105	12.736	12.736	0.000	97	514778	20.0	20.0	
157 sec-Butylbenzene	105	12.859	12.859	0.000	94	681240	20.0	21.3	
158 1,3-Dichlorobenzene	146	12.955	12.955	0.000	98	275278	20.0	21.1	
159 4-Isopropyltoluene	119	12.968	12.968	0.000	97	565701	20.0	20.1	
* 161 1,4-Dichlorobenzene-d4	152	13.010	13.013	-0.003	94	472393	50.0	50.0	
162 1,4-Dichlorobenzene	146	13.029	13.029	0.000	96	279958	20.0	21.1	
163 1,2,3-Trimethylbenzene	105	13.042	13.042	0.000	97	552933	20.0	19.9	
164 Benzyl chloride	91	13.106	13.106	0.000	98	335148	20.0	19.9	
165 1,3-Diethylbenzene	119	13.167	13.167	0.000	95	331522	20.0	20.1	
166 p-Diethylbenzene	119	13.238	13.238	0.000	94	350805	20.0	20.3	
167 n-Butylbenzene	92	13.257	13.261	-0.003	98	293135	20.0	21.3	
168 1,2-Dichlorobenzene	146	13.290	13.289	0.001	99	295489	20.0	21.2	
169 o-diethylbenzene	119	13.312	13.312	0.000	95	286493	20.0	20.7	
171 1,2-Dibromo-3-Chloropropane	75	13.826	13.830	-0.004	85	42425	20.0	18.8	
172 1,3,5-Trichlorobenzene	180	13.958	13.958	0.000	97	237431	20.0	21.2	
173 1,2,4-Trichlorobenzene	180	14.380	14.383	-0.003	94	236749	20.0	20.9	
175 Hexachlorobutadiene	225	14.463	14.466	-0.003	97	89503	20.0	21.5	
176 Naphthalene	128	14.563	14.559	0.004	96	725720	20.0	18.5	
177 1,2,3-Trichlorobenzene	180	14.704	14.704	0.000	96	231979	20.0	19.6	
178 2-Methylnaphthalene	142	15.322	15.318	0.004	92	306663	20.0	13.3	

QC Flag Legend

Processing Flags

Reagents:

MSV_LCS_VOC#1_00188	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00193	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00192	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00219	Amount Added: 50.00	Units: uL	
MSV_LCS_EE_00009	Amount Added: 50.00	Units: uL	
MSV_HP23_ISSS_00014	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 09-Oct-2024 11:13:18

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X07.D

Injection Date: 09-Oct-2024 10:48:30

Instrument ID: 9915

Operator ID: CLM27445

Lims ID: LCSD

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

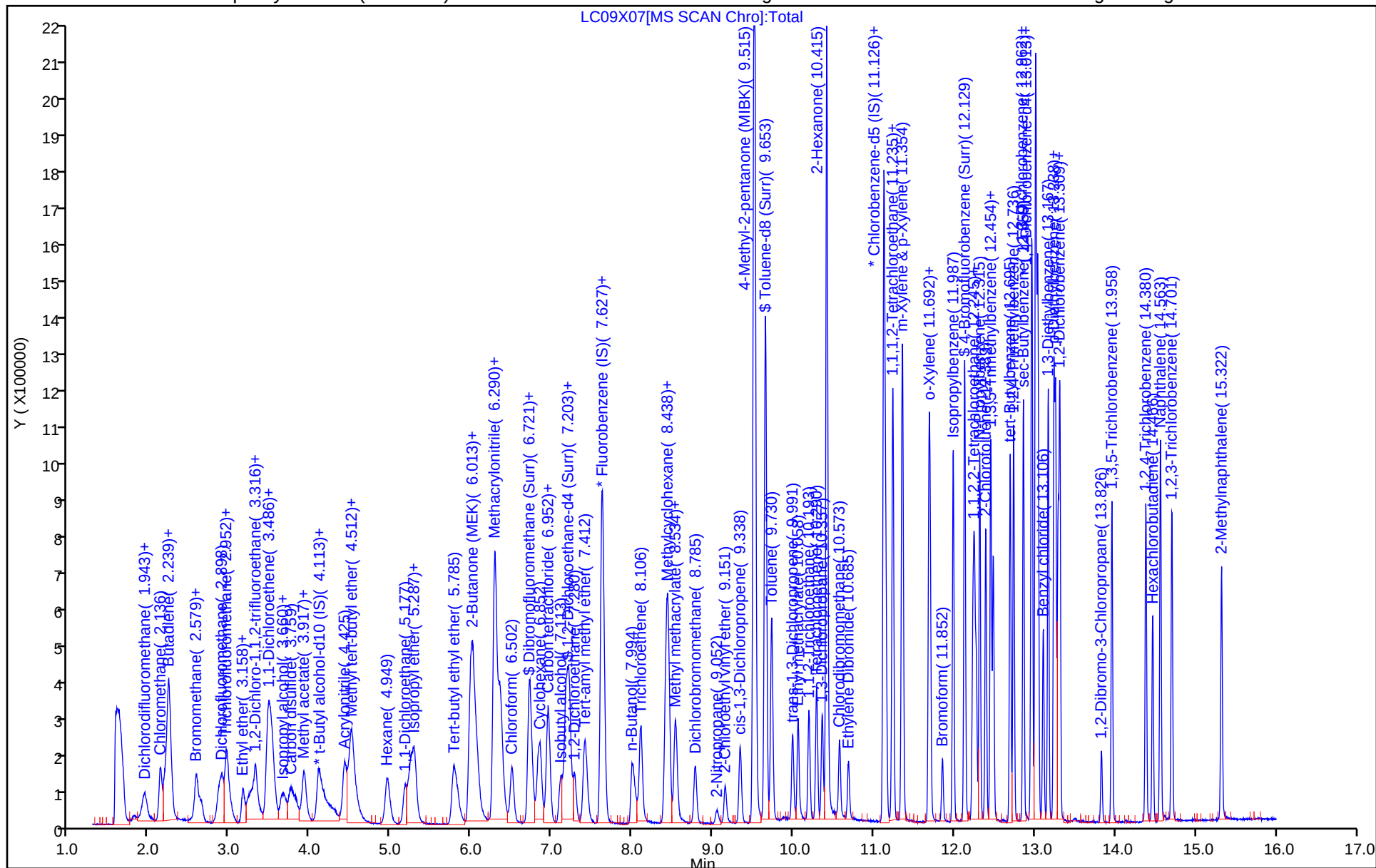
ALS Bottle#: 7

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\LC09X07.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 09-Oct-2024 10:48:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127182-008
Operator ID: CLM27445 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241009-127182.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 09:10:03 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: TQ4J

Date: 09-Oct-2024 11:11:16

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	47.5	94.92
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	49.7	99.36
\$ 82 Toluene-d8 (Surr)	50.0	53.3	106.64
\$ 142 4-Bromofluorobenzene (Surr)	50.0	46.5	93.00

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-MW-18D-0/1-OMS MS

Lab Sample ID: 410-191048-3 MS

Matrix: Water

Lab File ID: LC08X44.D

Analysis Method: 8260D

Date Collected: 10/03/2024 14:52

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 01:18

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	21.0		1.0	0.30
71-55-6	1,1,1-Trichloroethane	19.5		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	21.5		1.0	0.30
79-00-5	1,1,2-Trichloroethane	21.8		1.0	0.30
75-34-3	1,1-Dichloroethane	22.0		1.0	0.30
75-35-4	1,1-Dichloroethene	19.3		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	21.2		1.0	0.20
107-06-2	1,2-Dichloroethane	20.3		1.0	0.30
78-87-5	1,2-Dichloropropane	22.7		1.0	0.30
78-93-3	2-Butanone (MEK)	269		10	0.50
591-78-6	2-Hexanone	283		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	258		10	0.50
67-64-1	Acetone	274		20	0.70
71-43-2	Benzene	21.7		1.0	0.30
74-97-5	Bromochloromethane	20.3		5.0	0.20
75-27-4	Bromodichloromethane	20.8		1.0	0.20
75-25-2	Bromoform	20.6		4.0	1.0
74-83-9	Bromomethane	20.8		1.0	0.30
75-15-0	Carbon disulfide	20.4		5.0	0.30
56-23-5	Carbon tetrachloride	20.9		1.0	0.30
108-90-7	Chlorobenzene	22.3		1.0	0.30
75-00-3	Chloroethane	22.5		1.0	0.30
67-66-3	Chloroform	19.7		1.0	0.30
74-87-3	Chloromethane	24.7		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	28.5		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	17.6		1.0	0.20
124-48-1	Dibromochloromethane	22.4		1.0	0.20
100-41-4	Ethylbenzene	20.9		1.0	0.40
1634-04-4	Methyl tert-butyl ether	17.0		1.0	0.20
75-09-2	Methylene Chloride	18.4		1.0	0.30
100-42-5	Styrene	19.7		5.0	0.30
127-18-4	Tetrachloroethene	22.9		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-MW-18D-0/1-OMS MS

Lab Sample ID: 410-191048-3 MS

Matrix: Water

Lab File ID: LC08X44.D

Analysis Method: 8260D

Date Collected: 10/03/2024 14:52

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 01:18

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	22.4		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	20.7		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	18.8		1.0	0.20
79-01-6	Trichloroethene	22.2		1.0	0.30
75-01-4	Vinyl chloride	24.0		1.0	0.30
1330-20-7	Xylenes, Total	61.9		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X44.D
 Lims ID: 410-191048-A-3 MS
 Client ID: HD-MW-18D-0/1-0MS
 Sample Type: MS
 Inject. Date: 09-Oct-2024 01:18:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-015
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 14:49:53 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 14:54:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.943	1.933	0.010	88	227111	20.0	23.9	
5 Chloromethane	50	2.129	2.129	0.000	99	260965	20.0	24.7	
6 Butadiene	39	2.226	2.232	-0.006	91	405208	20.0	40.0	
7 Vinyl chloride	62	2.239	2.245	-0.006	97	248226	20.0	24.0	
9 Bromomethane	94	2.576	2.579	-0.003	90	166713	20.0	20.8	
10 Chloroethane	64	2.641	2.641	0.000	99	121795	20.0	22.5	
11 Dichlorofluoromethane	67	2.878	2.882	-0.004	97	310671	20.0	18.6	
12 Trichlorofluoromethane	101	2.959	2.952	0.007	82	241363	20.0	19.4	M
13 Pentane	43	2.959	2.959	0.000	98	192595	20.0	22.3	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.280	3.264	0.016	94	161848	20.0	21.0	
18 1,1-Dichloroethene	96	3.460	3.464	-0.004	97	110371	20.0	19.3	
19 Acetone	58	3.486	3.480	0.006	100	177379	250.0	274.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.522	3.515	0.007	74	136151	20.0	20.7	
21 Isopropyl alcohol	45	3.663	3.653	0.010	37	70847	150.0	153.4	
22 Iodomethane	142	3.653	3.653	0.000	98	198481	20.0	16.5	
23 Carbon disulfide	76	3.759	3.756	0.003	99	425674	20.0	20.4	
25 Methyl acetate	43	3.891	3.898	-0.007	97	109782	20.0	24.0	
26 3-Chloro-1-propene	41	3.923	3.920	0.003	92	138225	20.0	17.4	
27 Methylene Chloride	84	4.110	4.100	0.010	90	127449	20.0	18.4	
* 28 t-Butyl alcohol-d10 (IS)	65	4.113	4.139	-0.026	95	238467	250.0	250.0	
29 2-Methyl-2-propanol	59	4.271	4.235	0.036	97	195082	200.0	226.9	
30 Acrylonitrile	53	4.428	4.419	0.009	99	285047	100.0	108.7	
31 Methyl tert-butyl ether	73	4.499	4.499	0.000	93	354937	20.0	17.0	
32 trans-1,2-Dichloroethene	96	4.505	4.505	0.000	99	110378	20.0	20.7	
35 Hexane	57	4.952	4.956	-0.004	93	144430	20.0	22.0	
36 1,1-Dichloroethane	63	5.174	5.171	0.003	96	190345	20.0	22.0	
38 Isopropyl ether	45	5.248	5.239	0.010	94	327680	20.0	18.4	
39 2-Chloro-1,3-butadiene	53	5.293	5.296	-0.003	90	138340	20.0	18.5	
40 Tert-butyl ethyl ether	59	5.788	5.782	0.006	98	314242	20.0	16.6	
41 2-Butanone (MEK)	43	5.991	5.988	0.003	100	915927	250.0	269.4	
42 cis-1,2-Dichloroethene	96	6.017	6.013	0.004	83	166997	20.0	28.5	
43 2,2-Dichloropropane	77	6.046	6.042	0.004	82	190375	20.0	19.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
46 Propionitrile	54	6.071	6.074	-0.003	94	179906	150.0	187.3	
48 Methacrylonitrile	67	6.293	6.287	0.006	92	463612	150.0	167.7	
49 Chlorobromomethane	128	6.345	6.348	-0.003	94	62426	20.0	20.3	
50 Tetrahydrofuran	71	6.370	6.367	0.003	93	96743	100.0	112.8	
51 Chloroform	83	6.502	6.502	0.000	93	190575	20.0	19.7	
\$ 52 Dibromofluoromethane (Surr)	113	6.714	6.718	-0.004	93	266878	50.0	49.0	
53 1,1,1-Trichloroethane	97	6.737	6.737	0.000	95	194070	20.0	19.5	
54 Cyclohexane	56	6.840	6.846	-0.006	91	222835	20.0	20.2	
56 1,1-Dichloropropene	75	6.949	6.952	-0.003	96	149019	20.0	21.4	
55 Carbon tetrachloride	117	6.952	6.952	0.000	82	165851	20.0	20.9	
57 Isobutyl alcohol	41	7.110	7.113	-0.003	94	159462	500.0	524.3	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.171	0.006	93	66040	50.0	50.1	
59 Benzene	78	7.216	7.216	0.000	96	467234	20.0	21.7	
60 1,2-Dichloroethane	62	7.280	7.280	0.000	97	148237	20.0	20.3	
62 Tert-amyl methyl ether	73	7.402	7.412	-0.010	98	304849	20.0	16.4	
* 63 Fluorobenzene (IS)	96	7.618	7.621	-0.003	99	1086868	50.0	50.0	
64 n-Heptane	43	7.644	7.647	-0.003	94	169746	20.0	24.3	
66 n-Butanol	56	8.000	8.007	-0.007	92	229455	1000.0	1114.1	
67 Trichloroethene	95	8.100	8.103	-0.003	99	123934	20.0	22.2	
69 Methylcyclohexane	83	8.409	8.418	-0.009	91	216733	20.0	19.7	
70 1,2-Dichloropropane	63	8.431	8.431	0.000	92	121310	20.0	22.7	
71 2-ethoxy-2-methyl butane	87	8.451	8.447	0.004	92	146171	20.0	16.6	
72 Methyl methacrylate	69	8.525	8.528	-0.003	94	82419	20.0	18.2	
73 1,4-Dioxane	88	8.525	8.534	-0.009	40	42640	500.0	653.3	
74 Dibromomethane	93	8.541	8.541	0.000	97	76610	20.0	19.6	
76 Dichlorobromomethane	83	8.775	8.779	-0.004	99	141248	20.0	20.8	
77 2-Nitropropane	41	9.049	9.049	0.000	95	33784	20.0	20.3	
79 cis-1,3-Dichloropropene	75	9.341	9.338	0.003	96	147248	20.0	17.6	
80 4-Methyl-2-pentanone (MIBK)	43	9.515	9.515	0.000	97	2062932	250.0	257.8	
\$ 82 Toluene-d8 (Surr)	98	9.653	9.653	0.000	93	1087173	50.0	52.8	
90 Toluene	92	9.733	9.727	0.006	99	286086	20.0	22.4	
95 trans-1,3-Dichloropropene	75	9.991	9.988	0.003	93	133472	20.0	18.8	
114 Ethyl methacrylate	69	10.058	10.055	0.003	89	143082	20.0	17.9	
117 1,1,2-Trichloroethane	97	10.190	10.193	-0.003	90	103457	20.0	21.8	
118 Tetrachloroethene	166	10.290	10.290	0.000	97	123807	20.0	22.9	
119 1,3-Dichloropropane	76	10.357	10.357	0.000	90	168351	20.0	22.3	
121 2-Hexanone	43	10.415	10.415	0.000	97	1369440	250.0	283.0	
123 Chlorodibromomethane	129	10.573	10.573	0.000	89	112545	20.0	22.4	
124 Ethylene Dibromide	107	10.685	10.682	0.003	98	107989	20.0	21.2	
* 125 Chlorobenzene-d5 (IS)	117	11.123	11.123	0.000	86	812417	50.0	50.0	
127 1-Chlorohexane	91	11.135	11.135	0.000	96	136243	20.0	19.2	
128 Chlorobenzene	112	11.151	11.151	0.000	96	316255	20.0	22.3	
131 1,1,1,2-Tetrachloroethane	131	11.232	11.229	0.003	96	121534	20.0	21.0	
132 Ethylbenzene	91	11.238	11.238	0.000	98	547749	20.0	20.9	
134 m-Xylene & p-Xylene	106	11.354	11.354	0.000	100	426673	40.0	41.8	
136 o-Xylene	106	11.685	11.685	0.000	96	220883	20.0	20.1	
137 Styrene	104	11.701	11.698	0.003	95	327580	20.0	19.7	
138 Bromoform	173	11.852	11.852	0.000	96	76064	20.0	20.6	
139 Isopropylbenzene	105	11.987	11.987	0.000	95	612941	20.0	22.1	
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	378024	50.0	46.5	
145 1,1,2,2-Tetrachloroethane	83	12.229	12.229	0.000	94	185430	20.0	21.5	
146 Bromobenzene	156	12.245	12.245	0.000	93	139109	20.0	21.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
147 trans-1,4-Dichloro-2-butene	53	12.258	12.254	0.004	81	39502	100.0	17.8	
148 1,2,3-Trichloropropane	110	12.270	12.274	-0.004	83	53154	20.0	20.6	
149 N-Propylbenzene	91	12.315	12.315	0.000	99	694163	20.0	21.6	
150 2-Chlorotoluene	126	12.389	12.389	0.000	97	138684	20.0	20.7	
151 1,3,5-Trimethylbenzene	105	12.454	12.454	0.000	94	523863	20.0	20.6	
152 4-Chlorotoluene	126	12.483	12.483	0.000	97	133944	20.0	20.8	
154 tert-Butylbenzene	134	12.695	12.695	0.000	94	102448	20.0	22.0	
156 1,2,4-Trimethylbenzene	105	12.737	12.737	0.000	97	522817	20.0	20.3	
157 sec-Butylbenzene	105	12.859	12.859	0.000	94	706933	20.0	22.1	
158 1,3-Dichlorobenzene	146	12.955	12.955	0.000	99	280509	20.0	21.5	
159 4-Isopropyltoluene	119	12.965	12.965	0.000	97	586501	20.0	20.8	
* 161 1,4-Dichlorobenzene-d4	152	13.010	13.013	-0.003	94	472882	50.0	50.0	
162 1,4-Dichlorobenzene	146	13.029	13.029	0.000	96	283917	20.0	21.4	
163 1,2,3-Trimethylbenzene	105	13.042	13.039	0.003	98	558793	20.0	20.1	
164 Benzyl chloride	91	13.106	13.106	0.000	98	319842	20.0	19.0	
165 1,3-Diethylbenzene	119	13.167	13.167	0.000	95	341682	20.0	20.7	
166 p-Diethylbenzene	119	13.238	13.238	0.000	95	354940	20.0	20.5	
167 n-Butylbenzene	92	13.257	13.257	0.000	98	302869	20.0	22.0	
168 1,2-Dichlorobenzene	146	13.290	13.286	0.004	99	300375	20.0	21.6	
169 o-diethylbenzene	119	13.312	13.309	0.003	95	292257	20.0	21.1	
171 1,2-Dibromo-3-Chloropropane	75	13.830	13.827	0.003	83	40261	20.0	17.8	
172 1,3,5-Trichlorobenzene	180	13.958	13.958	0.000	98	242068	20.0	21.6	
173 1,2,4-Trichlorobenzene	180	14.383	14.380	0.003	94	233060	20.0	20.6	
175 Hexachlorobutadiene	225	14.466	14.466	0.000	98	90531	20.0	21.7	
176 Naphthalene	128	14.563	14.560	0.003	96	661359	20.0	16.9	
177 1,2,3-Trichlorobenzene	180	14.704	14.704	0.000	97	221636	20.0	18.7	
178 2-Methylnaphthalene	142	15.322	15.318	0.004	93	169949	20.0	7.34	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00188

Amount Added: 21.50

Units: uL

MSV_LCS_Gases_00219

Amount Added: 21.50

Units: uL

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 09-Oct-2024 14:54:27

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X44.D

Injection Date: 09-Oct-2024 01:18:30

Instrument ID: 9915

Operator ID: gaw91131

Lims ID: 410-191048-A-3 MS

Worklist Smp#: 15

Client ID: HD-MW-18D-0/1-OMS

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

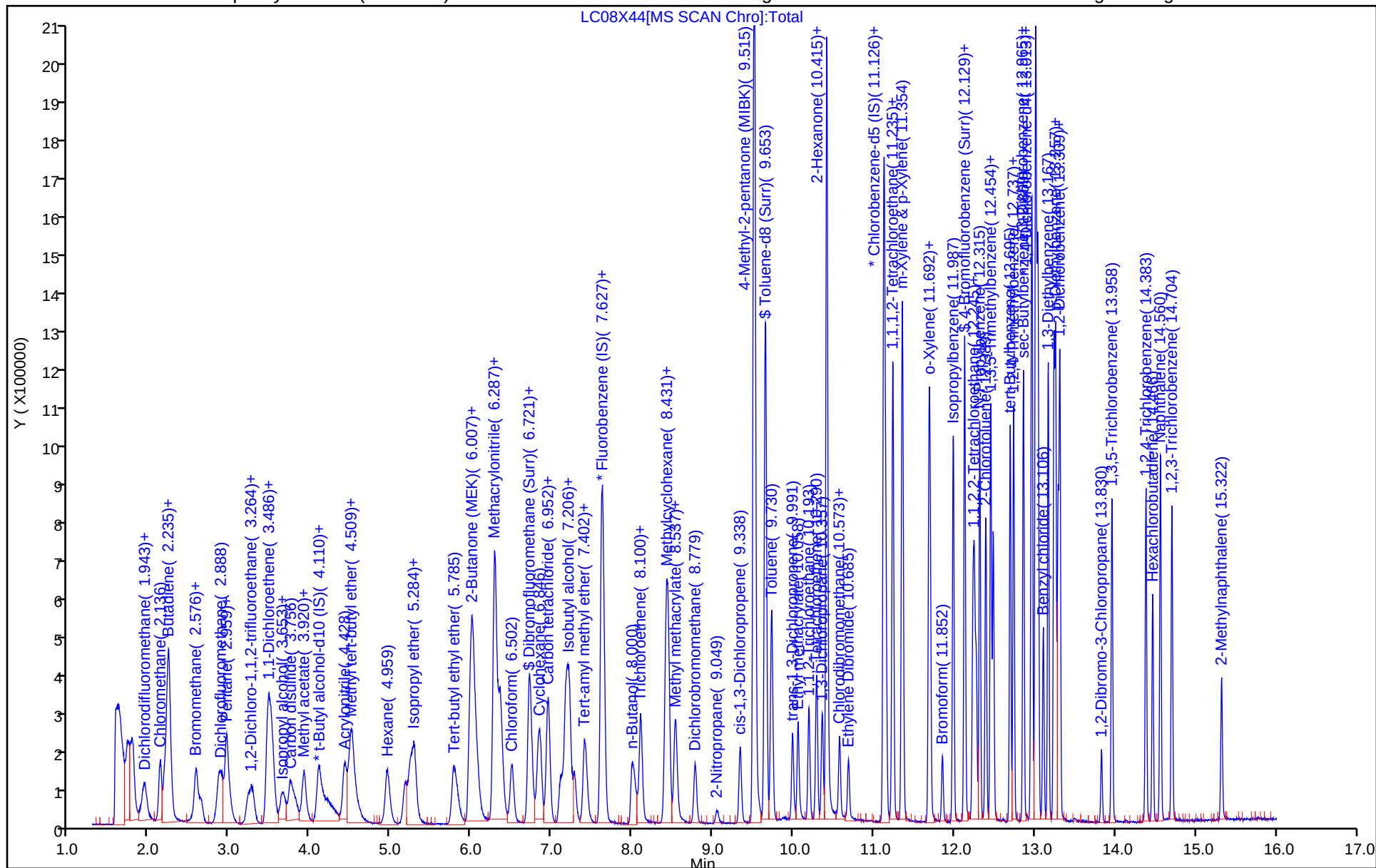
ALS Bottle#: 14

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X44.D
Lims ID: 410-191048-A-3 MS
Client ID: HD-MW-18D-0/1-0MS
Sample Type: MS
Inject. Date: 09-Oct-2024 01:18:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-015
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 14:49:53 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 14:54:26

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	49.0	97.92
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	50.1	100.26
\$ 82 Toluene-d8 (Surr)	50.0	52.8	105.65
\$ 142 4-Bromofluorobenzene (Surr)	50.0	46.5	92.96

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191048-1

SDG No.:

Client Sample ID: HD-MW-18D-0/1-0MSD MSD

Lab Sample ID: 410-191048-3 MSD

Matrix: Water

Lab File ID: LC08X45.D

Analysis Method: 8260D

Date Collected: 10/03/2024 14:52

Sample wt/vol: 5 (mL)

Date Analyzed: 10/09/2024 01:41

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 560875

Units: ug/L

Preparation Batch No.:

Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	22.1		1.0	0.30
71-55-6	1,1,1-Trichloroethane	20.3		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	23.2		1.0	0.30
79-00-5	1,1,2-Trichloroethane	23.4		1.0	0.30
75-34-3	1,1-Dichloroethane	23.5		1.0	0.30
75-35-4	1,1-Dichloroethene	20.2		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	22.4		1.0	0.20
107-06-2	1,2-Dichloroethane	21.0		1.0	0.30
78-87-5	1,2-Dichloropropane	23.4		1.0	0.30
78-93-3	2-Butanone (MEK)	288		10	0.50
591-78-6	2-Hexanone	300		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	273		10	0.50
67-64-1	Acetone	311		20	0.70
71-43-2	Benzene	22.6		1.0	0.30
74-97-5	Bromochloromethane	21.4		5.0	0.20
75-27-4	Bromodichloromethane	21.5		1.0	0.20
75-25-2	Bromoform	21.4		4.0	1.0
74-83-9	Bromomethane	20.6		1.0	0.30
75-15-0	Carbon disulfide	21.6		5.0	0.30
56-23-5	Carbon tetrachloride	21.4		1.0	0.30
108-90-7	Chlorobenzene	23.1		1.0	0.30
75-00-3	Chloroethane	23.5		1.0	0.30
67-66-3	Chloroform	20.5		1.0	0.30
74-87-3	Chloromethane	24.1		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	29.9		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	18.1		1.0	0.20
124-48-1	Dibromochloromethane	23.3		1.0	0.20
100-41-4	Ethylbenzene	22.3		1.0	0.40
1634-04-4	Methyl tert-butyl ether	17.6		1.0	0.20
75-09-2	Methylene Chloride	19.3		1.0	0.30
100-42-5	Styrene	21.2		5.0	0.30
127-18-4	Tetrachloroethene	23.6		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-MW-18D-0/1-0MSD MSD Lab Sample ID: 410-191048-3 MSD

Matrix: Water Lab File ID: LC08X45.D

Analysis Method: 8260D Date Collected: 10/03/2024 14:52

Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2024 01:41

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 560875 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 9915

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	23.4		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	21.8		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	19.4		1.0	0.20
79-01-6	Trichloroethene	22.9		1.0	0.30
75-01-4	Vinyl chloride	23.7		1.0	0.30
1330-20-7	Xylenes, Total	66.0		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X45.D
 Lims ID: 410-191048-A-3 MSD
 Client ID: HD-MW-18D-0/1-0MSD
 Sample Type: MSD
 Inject. Date: 09-Oct-2024 01:41:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127157-016
 Operator ID: gaw91131 Instrument ID: 9915
 Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Oct-2024 14:48:17 Calib Date: 15-Jul-2024 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 14:49:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.949	1.933	0.016	99	236839	20.0	24.3	
5 Chloromethane	50	2.139	2.129	0.010	99	261477	20.0	24.1	
6 Butadiene	39	2.239	2.232	0.007	93	443476	20.0	42.6	
7 Vinyl chloride	62	2.255	2.245	0.010	98	251560	20.0	23.7	
9 Bromomethane	94	2.586	2.579	0.007	90	170010	20.0	20.6	
10 Chloroethane	64	2.644	2.641	0.003	100	130604	20.0	23.5	
11 Dichlorofluoromethane	67	2.888	2.882	0.006	97	322876	20.0	18.8	
12 Trichlorofluoromethane	101	2.968	2.952	0.016	89	248750	20.0	19.4	
13 Pentane	43	2.968	2.959	0.009	99	198676	20.0	22.4	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.267	3.264	0.003	94	169533	20.0	21.4	
18 1,1-Dichloroethene	96	3.476	3.464	0.012	96	118621	20.0	20.2	
19 Acetone	58	3.489	3.480	0.009	100	200265	250.0	310.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.531	3.515	0.016	93	142862	20.0	21.2	
21 Isopropyl alcohol	45	3.660	3.653	0.007	40	62148	150.0	135.0	
22 Iodomethane	142	3.666	3.653	0.013	97	211785	20.0	17.2	
23 Carbon disulfide	76	3.763	3.756	0.007	99	463278	20.0	21.6	
25 Methyl acetate	43	3.914	3.898	0.016	92	115246	20.0	24.6	
26 3-Chloro-1-propene	41	3.936	3.920	0.016	95	147994	20.0	18.1	
27 Methylene Chloride	84	4.120	4.100	0.020	93	137380	20.0	19.3	
* 28 t-Butyl alcohol-d10 (IS)	65	4.168	4.139	0.029	94	237636	250.0	250.0	
29 2-Methyl-2-propanol	59	4.258	4.235	0.023	97	175768	200.0	205.2	
30 Acrylonitrile	53	4.441	4.419	0.022	99	317766	100.0	117.9	
31 Methyl tert-butyl ether	73	4.505	4.499	0.006	89	376924	20.0	17.6	
32 trans-1,2-Dichloroethene	96	4.528	4.505	0.023	99	119817	20.0	21.8	
35 Hexane	57	4.968	4.956	0.012	92	156758	20.0	23.2	
36 1,1-Dichloroethane	63	5.187	5.171	0.016	96	209029	20.0	23.5	
38 Isopropyl ether	45	5.255	5.239	0.017	95	353477	20.0	19.3	
39 2-Chloro-1,3-butadiene	53	5.303	5.296	0.007	90	153808	20.0	20.0	
40 Tert-butyl ethyl ether	59	5.792	5.782	0.010	98	339817	20.0	17.4	
41 2-Butanone (MEK)	43	5.994	5.988	0.006	100	1003958	250.0	287.5	
42 cis-1,2-Dichloroethene	96	6.023	6.013	0.010	80	179626	20.0	29.9	
43 2,2-Dichloropropane	77	6.039	6.042	-0.003	84	199106	20.0	19.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
46 Propionitrile	54	6.081	6.074	0.007	98	207606	150.0	216.9	
48 Methacrylonitrile	67	6.296	6.287	0.009	91	504029	150.0	177.5	
49 Chlorobromomethane	128	6.357	6.348	0.009	94	67555	20.0	21.4	
50 Tetrahydrofuran	71	6.377	6.367	0.010	87	111053	100.0	129.9	
51 Chloroform	83	6.512	6.502	0.010	92	203763	20.0	20.5	
\$ 52 Dibromofluoromethane (Surr)	113	6.724	6.718	0.006	94	267806	50.0	47.8	
53 1,1,1-Trichloroethane	97	6.743	6.737	0.006	97	207163	20.0	20.3	
54 Cyclohexane	56	6.853	6.846	0.007	91	240741	20.0	21.3	
56 1,1-Dichloropropene	75	6.955	6.952	0.003	96	159261	20.0	22.3	
55 Carbon tetrachloride	117	6.959	6.952	0.007	92	173835	20.0	21.4	
57 Isobutyl alcohol	41	7.129	7.113	0.016	93	168194	500.0	555.0	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.174	7.171	0.003	87	67545	50.0	49.9	
59 Benzene	78	7.222	7.216	0.006	96	500036	20.0	22.6	
60 1,2-Dichloroethane	62	7.283	7.280	0.003	96	157406	20.0	21.0	
62 Tert-amyl methyl ether	73	7.412	7.412	0.000	98	324363	20.0	17.0	
* 63 Fluorobenzene (IS)	96	7.627	7.621	0.006	99	1116451	50.0	50.0	
64 n-Heptane	43	7.647	7.647	0.000	94	176043	20.0	24.5	
66 n-Butanol	56	8.010	8.007	0.003	91	230414	1000.0	1122.7	
67 Trichloroethene	95	8.113	8.103	0.010	99	131430	20.0	22.9	
69 Methylcyclohexane	83	8.418	8.418	0.000	92	236244	20.0	20.9	
70 1,2-Dichloropropane	63	8.434	8.431	0.003	95	128545	20.0	23.4	
71 2-ethoxy-2-methyl butane	87	8.457	8.447	0.010	90	154977	20.0	17.1	
72 Methyl methacrylate	69	8.531	8.528	0.003	94	86851	20.0	18.7	
73 1,4-Dioxane	88	8.534	8.534	0.000	41	39059	500.0	600.5	
74 Dibromomethane	93	8.547	8.541	0.006	94	81891	20.0	20.4	
76 Dichlorobromomethane	83	8.782	8.779	0.003	99	149782	20.0	21.5	
77 2-Nitropropane	41	9.055	9.049	0.006	95	33775	20.0	20.4	
79 cis-1,3-Dichloropropene	75	9.338	9.338	0.000	96	155812	20.0	18.1	
80 4-Methyl-2-pentanone (MIBK)	43	9.518	9.515	0.003	97	2244169	250.0	273.0	
\$ 82 Toluene-d8 (Surr)	98	9.656	9.653	0.003	94	1098298	50.0	53.0	
90 Toluene	92	9.733	9.727	0.006	98	301414	20.0	23.4	
95 trans-1,3-Dichloropropene	75	9.991	9.988	0.003	93	138129	20.0	19.4	
114 Ethyl methacrylate	69	10.061	10.055	0.006	90	151412	20.0	18.8	
117 1,1,2-Trichloroethane	97	10.196	10.193	0.003	89	111544	20.0	23.4	
118 Tetrachloroethene	166	10.293	10.290	0.003	97	128390	20.0	23.6	
119 1,3-Dichloropropane	76	10.360	10.357	0.003	90	178626	20.0	23.5	
121 2-Hexanone	43	10.415	10.415	0.000	98	1462022	250.0	300.3	
123 Chlorodibromomethane	129	10.576	10.573	0.003	90	117647	20.0	23.3	
124 Ethylene Dibromide	107	10.685	10.682	0.003	99	114767	20.0	22.4	
* 125 Chlorobenzene-d5 (IS)	117	11.126	11.123	0.004	85	817489	50.0	50.0	
127 1-Chlorohexane	91	11.139	11.135	0.004	98	145821	20.0	20.4	
128 Chlorobenzene	112	11.151	11.151	0.000	95	330482	20.0	23.1	
131 1,1,1,2-Tetrachloroethane	131	11.235	11.229	0.006	96	128863	20.0	22.1	
132 Ethylbenzene	91	11.241	11.238	0.003	98	587573	20.0	22.3	
134 m-Xylene & p-Xylene	106	11.354	11.354	0.000	100	456427	40.0	44.4	
136 o-Xylene	106	11.685	11.685	0.000	96	239334	20.0	21.6	
137 Styrene	104	11.701	11.698	0.003	95	354009	20.0	21.2	
138 Bromoform	173	11.856	11.852	0.004	95	79496	20.0	21.4	
139 Isopropylbenzene	105	11.987	11.987	0.000	95	651586	20.0	23.4	
\$ 142 4-Bromofluorobenzene (Surr)	95	12.129	12.129	0.000	91	370731	50.0	45.3	
145 1,1,2,2-Tetrachloroethane	83	12.229	12.229	0.000	94	197343	20.0	23.2	
146 Bromobenzene	156	12.248	12.245	0.003	93	143149	20.0	22.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
147 trans-1,4-Dichloro-2-butene	53	12.254	12.254	0.000	81	33142	100.0	15.2	
148 1,2,3-Trichloropropane	110	12.274	12.274	0.000	84	55434	20.0	21.9	
149 N-Propylbenzene	91	12.315	12.315	0.000	99	733139	20.0	23.1	
150 2-Chlorotoluene	126	12.393	12.389	0.004	97	147418	20.0	22.4	
151 1,3,5-Trimethylbenzene	105	12.454	12.454	0.000	94	551910	20.0	22.1	
152 4-Chlorotoluene	126	12.483	12.483	0.000	97	142228	20.0	22.4	
154 tert-Butylbenzene	134	12.695	12.695	0.000	93	107868	20.0	23.5	
156 1,2,4-Trimethylbenzene	105	12.737	12.737	0.000	97	558473	20.0	22.0	
157 sec-Butylbenzene	105	12.859	12.859	0.000	94	753749	20.0	24.0	
158 1,3-Dichlorobenzene	146	12.955	12.955	0.000	98	296463	20.0	23.1	
159 4-Isopropyltoluene	119	12.968	12.965	0.003	97	621026	20.0	22.4	
* 161 1,4-Dichlorobenzene-d4	152	13.010	13.013	-0.003	95	465211	50.0	50.0	
162 1,4-Dichlorobenzene	146	13.029	13.029	0.000	95	301502	20.0	23.1	
163 1,2,3-Trimethylbenzene	105	13.042	13.039	0.003	98	594549	20.0	21.7	
164 Benzyl chloride	91	13.106	13.106	0.000	98	338620	20.0	20.4	
165 1,3-Diethylbenzene	119	13.167	13.167	0.000	95	360380	20.0	22.2	
166 p-Diethylbenzene	119	13.241	13.238	0.003	94	385911	20.0	22.7	
167 n-Butylbenzene	92	13.257	13.257	0.000	97	321994	20.0	23.7	
168 1,2-Dichlorobenzene	146	13.290	13.286	0.004	99	318023	20.0	23.2	
169 o-diethylbenzene	119	13.312	13.309	0.003	95	309329	20.0	22.7	
171 1,2-Dibromo-3-Chloropropane	75	13.827	13.827	0.000	81	43500	20.0	19.6	
172 1,3,5-Trichlorobenzene	180	13.962	13.958	0.004	98	251843	20.0	22.8	
173 1,2,4-Trichlorobenzene	180	14.383	14.380	0.003	95	245963	20.0	22.0	
175 Hexachlorobutadiene	225	14.466	14.466	0.000	98	93724	20.0	22.9	
176 Naphthalene	128	14.563	14.560	0.003	97	723949	20.0	18.8	
177 1,2,3-Trichlorobenzene	180	14.704	14.704	0.000	96	232402	20.0	19.9	
178 2-Methylnaphthalene	142	15.322	15.318	0.004	93	247865	20.0	10.9	

QC Flag Legend

Processing Flags

Reagents:

MSV_LCS_VOC#1_00188

Amount Added: 21.50

Units: uL

MSV_LCS_Gases_00219

Amount Added: 21.50

Units: uL

MSV_HP23_ISSS_00014

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 09-Oct-2024 14:49:10

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X45.D

Injection Date: 09-Oct-2024 01:41:30

Instrument ID: 9915

Operator ID: gaw91131

Lims ID: 410-191048-A-3 MSD

Worklist Smp#: 16

Client ID: HD-MW-18D-0/1-0MSD

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

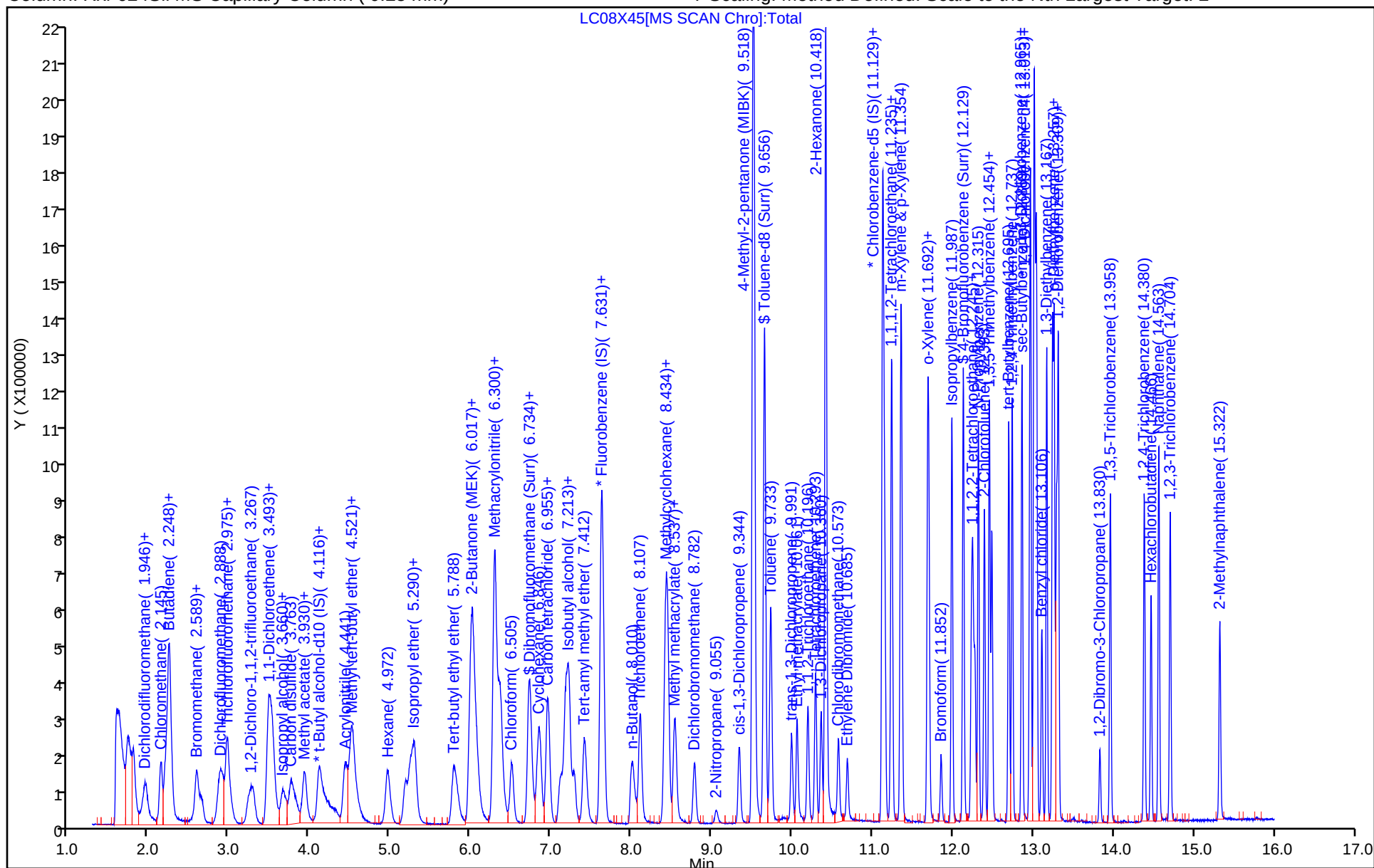
ALS Bottle#: 15

Method: MSVoa_9915a

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\LC08X45.D
Lims ID: 410-191048-A-3 MSD
Client ID: HD-MW-18D-0/1-0MSD
Sample Type: MSD
Inject. Date: 09-Oct-2024 01:41:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127157-016
Operator ID: gaw91131 Instrument ID: 9915
Method: \\chromfs\Lancaster\ChromData\9915\20241008-127157.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 09-Oct-2024 14:48:17 Calib Date: 15-Jul-2024 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20240715-119345.b\LL15X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1605

First Level Reviewer: FQ4L

Date: 09-Oct-2024 14:49:10

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	50.0	47.8	95.66
\$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	49.9	99.82
\$ 82 Toluene-d8 (Surr)	50.0	53.0	106.07
\$ 142 4-Bromofluorobenzene (Surr)	50.0	45.3	90.60

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Instrument ID: 9915

Start Date: 07/15/2024 13:34

Analysis Batch Number: 528230

End Date: 07/15/2024 20:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-528230/1		07/15/2024 13:34	1	LL15T01.D	R-624Si1MS 30m 0.25 (mm)
IC 410-528230/3		07/15/2024 14:18	1	LL15X02.D	R-624Si1MS 30m 0.25 (mm)
IC 410-528230/4		07/15/2024 14:41	1	LL15X03.D	R-624Si1MS 30m 0.25 (mm)
IC 410-528230/5		07/15/2024 15:03	1	LL15X04.D	R-624Si1MS 30m 0.25 (mm)
IC 410-528230/6		07/15/2024 15:26	1	LL15X05.D	R-624Si1MS 30m 0.25 (mm)
CCV 410-528230/1006		07/15/2024 15:26	1		R-624Si1MS 30m 0.25 (mm)
IC 410-528230/7		07/15/2024 15:48	1	LL15X06.D	R-624Si1MS 30m 0.25 (mm)
IC 410-528230/8		07/15/2024 16:11	1	LL15X07.D	R-624Si1MS 30m 0.25 (mm)
ICV 410-528230/10		07/15/2024 16:56	1		R-624Si1MS 30m 0.25 (mm)
IC 410-528230/12		07/15/2024 17:41	1	LL15X11.D	R-624Si1MS 30m 0.25 (mm)
IC 410-528230/13		07/15/2024 18:04	1	LL15X12.D	R-624Si1MS 30m 0.25 (mm)
IC 410-528230/14		07/15/2024 18:26	1	LL15X13.D	R-624Si1MS 30m 0.25 (mm)
IC 410-528230/15		07/15/2024 18:49	1	LL15X14.D	R-624Si1MS 30m 0.25 (mm)
ICIS 410-528230/16		07/15/2024 19:11	1	LL15X15.D	R-624Si1MS 30m 0.25 (mm)
CCVIS 410-528230/1016		07/15/2024 19:11	1		R-624Si1MS 30m 0.25 (mm)
IC 410-528230/17		07/15/2024 19:34	1	LL15X16.D	R-624Si1MS 30m 0.25 (mm)
IC 410-528230/18		07/15/2024 19:57	1	LL15X17.D	R-624Si1MS 30m 0.25 (mm)
ICV 410-528230/20		07/15/2024 20:42	1	LL15X19.D	R-624Si1MS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Instrument ID: 9915

Start Date: 10/08/2024 20:12

Analysis Batch Number: 560875

End Date: 10/09/2024 06:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-560875/1		10/08/2024 20:12	1	LC08T31.D	R-624Si1MS 30m 0.25 (mm)
CCVIS 410-560875/3		10/08/2024 20:49	1	LC08X32.D	R-624Si1MS 30m 0.25 (mm)
LCS 410-560875/4		10/08/2024 21:12	1	LC08X33.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/08/2024 21:34	1		R-624Si1MS 30m 0.25 (mm)
MB 410-560875/6		10/08/2024 21:57	1	LC08X35.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/08/2024 22:41	100		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/08/2024 23:04	100		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/08/2024 23:26	2000		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/08/2024 23:49	50		R-624Si1MS 30m 0.25 (mm)
410-191048-1	HD-MW-18S-0/1-0	10/09/2024 00:11	1	LC08X41.D	R-624Si1MS 30m 0.25 (mm)
410-191048-2	HD-MW-111-0/1-0	10/09/2024 00:33	1	LC08X42.D	R-624Si1MS 30m 0.25 (mm)
410-191048-3	HD-MW-18D-0/1-0	10/09/2024 00:56	1	LC08X43.D	R-624Si1MS 30m 0.25 (mm)
410-191048-3 MS	HD-MW-18D-0/1-0MS MS	10/09/2024 01:18	1	LC08X44.D	R-624Si1MS 30m 0.25 (mm)
410-191048-3 MSD	HD-MW-18D-0/1-0MSD MSD	10/09/2024 01:41	1	LC08X45.D	R-624Si1MS 30m 0.25 (mm)
410-191048-4	HD-GM-1D-0/1-0	10/09/2024 02:03	1	LC08X46.D	R-624Si1MS 30m 0.25 (mm)
410-191048-5	HD-MW-150-0/1-0	10/09/2024 02:25	1	LC08X47.D	R-624Si1MS 30m 0.25 (mm)
410-191048-6	HD-Cole D-0/1-0	10/09/2024 02:48	1	LC08X48.D	R-624Si1MS 30m 0.25 (mm)
410-191048-7	HD-MW-69-0/1-0	10/09/2024 03:10	1	LC08X49.D	R-624Si1MS 30m 0.25 (mm)
410-191048-8	HD-QC2-0/1-1	10/09/2024 03:33	1	LC08X50.D	R-624Si1MS 30m 0.25 (mm)
410-191048-9	HD-Cole Steel MW-12-0/1-0	10/09/2024 03:55	1	LC08X51.D	R-624Si1MS 30m 0.25 (mm)
410-191048-10	HD-MW-165-0/1-0	10/09/2024 04:18	1	LC08X52.D	R-624Si1MS 30m 0.25 (mm)
410-191048-11	HD-FOLK (RW-4)-0/1-0	10/09/2024 04:40	1	LC08X53.D	R-624Si1MS 30m 0.25 (mm)
410-191048-12	HD-MW-43D-0/1-0	10/09/2024 05:03	1	LC08X54.D	R-624Si1MS 30m 0.25 (mm)
410-191048-13	HD-MW-16S-0/1-0	10/09/2024 05:25	1	LC08X55.D	R-624Si1MS 30m 0.25 (mm)
410-191048-14	HD-MW-82-0/1-0	10/09/2024 05:47	1	LC08X56.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 06:10	1		R-624Si1MS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191048-1

SDG No.:

Instrument ID: 9915

Start Date: 10/09/2024 08:02

Analysis Batch Number: 560989

End Date: 10/09/2024 18:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-560989/1		10/09/2024 08:02	1	LC09T01.D	R-624Si1MS 30m 0.25 (mm)
CCVIS 410-560989/6		10/09/2024 10:03	1	LC09X05.D	R-624Si1MS 30m 0.25 (mm)
LCS 410-560989/7		10/09/2024 10:26	1	LC09X06.D	R-624Si1MS 30m 0.25 (mm)
LCSD 410-560989/8		10/09/2024 10:48	1	LC09X07.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 11:11	1		R-624Si1MS 30m 0.25 (mm)
MB 410-560989/10		10/09/2024 11:33	1	LC09X09.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 11:56	10		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 12:18	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 12:41	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 13:03	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 13:26	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 13:48	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 14:11	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 14:34	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 14:56	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 15:19	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 15:41	10		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 16:04	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 16:26	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 16:49	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		10/09/2024 17:11	1		R-624Si1MS 30m 0.25 (mm)
410-191048-15	HD-QC2-0/1-3	10/09/2024 17:34	1	LC09X25.D	R-624Si1MS 30m 0.25 (mm)
410-191048-16	HD-QC2-0/1-4	10/09/2024 17:56	1	LC09X26.D	R-624Si1MS 30m 0.25 (mm)
410-191048-17	HD-QC3-0/1-2	10/09/2024 18:19	1	LC09X27.D	R-624Si1MS 30m 0.25 (mm)
410-191048-18	HD-MW-110-0/1-0	10/09/2024 18:41	1	LC09X28.D	R-624Si1MS 30m 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1

SDG No.: _____

Batch Number: 528230 Batch Start Date: 07/15/24 13:34 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_4ppbEE 00593	MSV_CCV_2CEVE 00184	MSV_CCV_CYC 00009
BFB 410-528230/1		8260D			1 uL	1 uL				
IC 410-528230/3		8260D			5 mL	5 mL	2759			
IC 410-528230/4		8260D			5 mL	5 mL	2759			
IC 410-528230/5		8260D			5 mL	5 mL	2759			
IC 410-528230/6		8260D			5 mL	5 mL	2759			
IC 410-528230/7		8260D			5 mL	5 mL	2759			
IC 410-528230/8		8260D			5 mL	5 mL	2759			
IC 410-528230/12		8260D			5 mL	5 mL	2759	12.5 mL		
IC 410-528230/13		8260D			5 mL	5 mL	2759		4 uL	32 uL
IC 410-528230/14		8260D			5 mL	5 mL	2759		2 uL	8 uL
IC 410-528230/15		8260D			5 mL	5 mL	2759		4 uL	16 uL
ICIS 410-528230/16		8260D			5 mL	5 mL	2759		5 uL	10 uL
IC 410-528230/17		8260D			5 mL	5 mL	2759		5 uL	10 uL
IC 410-528230/18		8260D			5 mL	5 mL	2759		15 uL	30 uL
ICV 410-528230/20		8260D			5 mL	5 mL	2759			

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_EE 00007	MSV_CCV_ETOH 00006	MSV_CCV_GASES 00819	MSV_CCV_LKB 00010	MSV_CCV_OH_Sp 00012	MSV_CCV_Penta 00051
BFB 410-528230/1		8260D								
IC 410-528230/3		8260D				20 uL		4 uL		4 uL
IC 410-528230/4		8260D				8 uL		2 uL		2 uL
IC 410-528230/5		8260D				16 uL		4 uL		4 uL
IC 410-528230/6		8260D				10 uL		5 uL		5 uL
IC 410-528230/7		8260D				10 uL		5 uL		5 uL
IC 410-528230/8		8260D				30 uL		15 uL		15 uL
IC 410-528230/12		8260D								

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1

SDG No.: _____

Batch Number: 528230 Batch Start Date: 07/15/24 13:34 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_EE 00007	MSV_CCV_ETOH 00006	MSV_CCV_GASES 00819	MSV_CCV_LKB 00010	MSV_CCV_OH_Sp 00012	MSV_CCV_Penta 00051
IC 410-528230/13		8260D			4 uL		2 uL		4 uL	
IC 410-528230/14		8260D			2 uL		1 uL		2 uL	
IC 410-528230/15		8260D			4 uL		2 uL		4 uL	
ICIS 410-528230/16		8260D			5 uL		2.5 uL		5 uL	
IC 410-528230/17		8260D			5 uL		2.5 uL		5 uL	
IC 410-528230/18		8260D			15 uL		7.5 uL		15 uL	
ICV 410-528230/20		8260D								

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_V5ACE 00038	MSV_CCV_VOC#1 00192	MSV_CCV_VOC#3 00188	MSV_HP23_ISO 00008	MSV_HP23_ISSS 00014	MSV_LCS_2CEVE 00180
BFB 410-528230/1		8260D								
IC 410-528230/3		8260D			4 uL			1 uL		
IC 410-528230/4		8260D			2 uL			1 uL		
IC 410-528230/5		8260D			4 uL			1 uL		
IC 410-528230/6		8260D			5 uL			1 uL		
IC 410-528230/7		8260D			5 uL			1 uL		
IC 410-528230/8		8260D			15 uL			1 uL		
IC 410-528230/12		8260D							1 uL	
IC 410-528230/13		8260D				4 uL	3.2 uL		1 uL	
IC 410-528230/14		8260D				2 uL	1.6 uL		1 uL	
IC 410-528230/15		8260D				4 uL	3.2 uL		1 uL	
ICIS 410-528230/16		8260D				5 uL	4 uL		1 uL	
IC 410-528230/17		8260D				5 uL	4 uL		1 uL	
IC 410-528230/18		8260D				15 uL	12 uL		1 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1

SDG No.: _____

Batch Number: 528230 Batch Start Date: 07/15/24 13:34 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_V5ACE 00038	MSV_CCV_VOC#1 00192	MSV_CCV_VOC#3 00188	MSV_HP23_ISO 00008	MSV_HP23_ISSS 00014	MSV_LCS_2CEVE 00180
ICV 410-528230/20		8260D							1 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_ACROL 00179	MSV_LCS_CYC 00009	MSV_LCS_EE 00009	MSV_LCS_Gases 00207	MSV_LCS_OH_Sp 00015	MSV_LCS_VOC#1 00176
BFB 410-528230/1		8260D								
IC 410-528230/3		8260D								
IC 410-528230/4		8260D								
IC 410-528230/5		8260D								
IC 410-528230/6		8260D								
IC 410-528230/7		8260D								
IC 410-528230/8		8260D								
IC 410-528230/12		8260D								
IC 410-528230/13		8260D								
IC 410-528230/14		8260D								
IC 410-528230/15		8260D								
ICIS 410-528230/16		8260D								
IC 410-528230/17		8260D								
IC 410-528230/18		8260D								
ICV 410-528230/20		8260D			50 uL	50 uL	50 uL	50 uL	50 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_BFB 00017	MSV_V_SMFreon 00044				
BFB 410-528230/1		8260D			1 uL					
IC 410-528230/3		8260D				2 uL				
IC 410-528230/4		8260D				1 uL				
IC 410-528230/5		8260D				2 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1

SDG No.: _____

Batch Number: 528230 Batch Start Date: 07/15/24 13:34 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_BFB 00017	MSV_V_SMFreon 00044				
IC 410-528230/6		8260D				2.5 uL				
IC 410-528230/7		8260D				2.5 uL				
IC 410-528230/8		8260D				7.5 uL				
IC 410-528230/12		8260D								
IC 410-528230/13		8260D								
IC 410-528230/14		8260D								
IC 410-528230/15		8260D								
ICIS 410-528230/16		8260D								
IC 410-528230/17		8260D								
IC 410-528230/18		8260D								
ICV 410-528230/20		8260D								

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1

SDG No.: _____

Batch Number: 560875 Batch Start Date: 10/08/24 20:12 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCh eck	Headspace	Lot#Vial
BFB 410-560875/1		8260D			1 uL	1 uL				
CCVIS 410-560875/3		8260D			5 mL	5 mL				2768
LCS 410-560875/4		8260D			5 mL	5 mL				2768
MB 410-560875/6		8260D			5 mL	5 mL				2768
410-191048-A-1	HD-MW-18S-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-2	HD-MW-111-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-3	HD-MW-18D-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-3 MS	HD-MW-18D-0/1-0 MS	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-3 MSD	HD-MW-18D-0/1-0 MSD	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-4	HD-GM-1D-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-5	HD-MW-150-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-6	HD-Cole D-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-7	HD-MW-69-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-8	HD-QC2-0/1-1	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-9	HD-Cole Steel MW-12-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-10	HD-MW-165-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-11	HD-FOLK (RW-4) -0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-12	HD-MW-43D-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-13	HD-MW-16S-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-14	HD-MW-82-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_2CEVE 00196	MSV_CCV_GASES 00869	MSV_CCV_VOC#1 00204	MSV_CCV_VOC#3 00201	MSV_HP23_ISSS 00014	MSV_LCS_2CEVE 00193
BFB 410-560875/1		8260D								
CCVIS 410-560875/3		8260D			5 uL	2.5 uL	5 uL	4 uL	1 uL	
LCS 410-560875/4		8260D							1 uL	50 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1

SDG No.: _____

Batch Number: 560875 Batch Start Date: 10/08/24 20:12 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_2CEVE 00196	MSV_CCV_GASES 00869	MSV_CCV_VOC#1 00204	MSV_CCV_VOC#3 00201	MSV_HP23_ISSS 00014	MSV_LCS_2CEVE 00193
MB 410-560875/6		8260D							1 uL	
410-191048-A-1	HD-MW-18S-0/1-0	8260D	Water	T					1 uL	
410-191048-A-2	HD-MW-111-0/1-0	8260D	Water	T					1 uL	
410-191048-A-3	HD-MW-18D-0/1-0	8260D	Water	T					1 uL	
410-191048-A-3 MS	HD-MW-18D-0/1-0 MS	8260D	Water	T					1 uL	
410-191048-A-3 MSD	HD-MW-18D-0/1-0 MSD	8260D	Water	T					1 uL	
410-191048-A-4	HD-GM-1D-0/1-0	8260D	Water	T					1 uL	
410-191048-A-5	HD-MW-150-0/1-0	8260D	Water	T					1 uL	
410-191048-A-6	HD-Cole D-0/1-0	8260D	Water	T					1 uL	
410-191048-A-7	HD-MW-69-0/1-0	8260D	Water	T					1 uL	
410-191048-A-8	HD-QC2-0/1-1	8260D	Water	T					1 uL	
410-191048-A-9	HD-Cole Steel MW-12-0/1-0	8260D	Water	T					1 uL	
410-191048-A-10	HD-MW-165-0/1-0	8260D	Water	T					1 uL	
410-191048-A-11	HD-FOLK (RW-4)-0/1-0	8260D	Water	T					1 uL	
410-191048-A-12	HD-MW-43D-0/1-0	8260D	Water	T					1 uL	
410-191048-A-13	HD-MW-16S-0/1-0	8260D	Water	T					1 uL	
410-191048-A-14	HD-MW-82-0/1-0	8260D	Water	T					1 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS ACROL 00192	MSV_LCS Gases 00219	MSV_LCS VOC#1 00188	MSV V_BFB 00017		
BFB 410-560875/1		8260D						1 uL		
CCVIS 410-560875/3		8260D								
LCS 410-560875/4		8260D			50 uL	50 uL	50 uL			
MB 410-560875/6		8260D								
410-191048-A-1	HD-MW-18S-0/1-0	8260D	Water	T						
410-191048-A-2	HD-MW-111-0/1-0	8260D	Water	T						
410-191048-A-3	HD-MW-18D-0/1-0	8260D	Water	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1

SDG No.: _____

Batch Number: 560875 Batch Start Date: 10/08/24 20:12 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_ACROL 00192	MSV_LCS_Gases 00219	MSV_LCS_VOC#1 00188	MSV_V_BFB 00017		
410-191048-A-3 MS	HD-MW-18D-0/1-0 MS	8260D	Water	T		21.5 uL	21.5 uL			
410-191048-A-3 MSD	HD-MW-18D-0/1-0 MSD	8260D	Water	T		21.5 uL	21.5 uL			
410-191048-A-4	HD-GM-1D-0/1-0	8260D	Water	T						
410-191048-A-5	HD-MW-150-0/1-0	8260D	Water	T						
410-191048-A-6	HD-Cole D-0/1-0	8260D	Water	T						
410-191048-A-7	HD-MW-69-0/1-0	8260D	Water	T						
410-191048-A-8	HD-QC2-0/1-1	8260D	Water	T						
410-191048-A-9	HD-Cole Steel MW-12-0/1-0	8260D	Water	T						
410-191048-A-10	HD-MW-165-0/1-0	8260D	Water	T						
410-191048-A-11	HD-FOLK (RW-4)-0/1-0	8260D	Water	T						
410-191048-A-12	HD-MW-43D-0/1-0	8260D	Water	T						
410-191048-A-13	HD-MW-16S-0/1-0	8260D	Water	T						
410-191048-A-14	HD-MW-82-0/1-0	8260D	Water	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1

SDG No.: _____

Batch Number: 560989 Batch Start Date: 10/09/24 08:02 Batch Analyst: Mellinger, Corie MBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCh eck	Headspace	Lot#Vial
BFB 410-560989/1		8260D			1 uL	1 uL				
CCVIS 410-560989/6		8260D			5 mL	5 mL				2768
LCS 410-560989/7		8260D			5 mL	5 mL				2768
LCSD 410-560989/8		8260D			5 mL	5 mL				2768
MB 410-560989/10		8260D			5 mL	5 mL				2768
410-191048-A-15	HD-QC2-0/1-3	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-16	HD-QC2-0/1-4	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-17	HD-QC3-0/1-2	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191048-A-18	HD-MW-110-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_2CEVE 00196	MSV_CCV_EE 00007	MSV_CCV_GASES 00869	MSV_CCV_VOC#1 00204	MSV_CCV_VOC#3 00201	MSV_HP23_ISSS 00014
BFB 410-560989/1		8260D								
CCVIS 410-560989/6		8260D			5 uL	5 uL	2.5 uL	5 uL	4 uL	1 uL
LCS 410-560989/7		8260D								1 uL
LCSD 410-560989/8		8260D								1 uL
MB 410-560989/10		8260D								1 uL
410-191048-A-15	HD-QC2-0/1-3	8260D	Water	T						1 uL
410-191048-A-16	HD-QC2-0/1-4	8260D	Water	T						1 uL
410-191048-A-17	HD-QC3-0/1-2	8260D	Water	T						1 uL
410-191048-A-18	HD-MW-110-0/1-0	8260D	Water	T						1 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_2CEVE 00193	MSV_LCS_ACROL 00192	MSV_LCS_EE 00009	MSV_LCS_Gases 00219	MSV_LCS_VOC#1 00188	MSV_V_BFB 00017
BFB 410-560989/1		8260D								1 uL
CCVIS 410-560989/6		8260D								

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191048-1

SDG No.: _____

Batch Number: 560989 Batch Start Date: 10/09/24 08:02 Batch Analyst: Mellinger, Corie MBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_2CEVE 00193	MSV_LCS_ACROL 00192	MSV_LCS_EE 00009	MSV_LCS_Gases 00219	MSV_LCS_VOC#1 00188	MSV_V_BFB 00017
LCS 410-560989/7		8260D			50 uL	50 uL	50 uL	50 uL	50 uL	
LCSD 410-560989/8		8260D			50 uL	50 uL	50 uL	50 uL	50 uL	
MB 410-560989/10		8260D								
410-191048-A-15	HD-QC2-0/1-3	8260D	Water	T						
410-191048-A-16	HD-QC2-0/1-4	8260D	Water	T						
410-191048-A-17	HD-QC3-0/1-2	8260D	Water	T						
410-191048-A-18	HD-MW-110-0/1-0	8260D	Water	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents



410-191048 Chain of Custody

Environmental Analysis Request/Chain of Custody

pg. 1 of 2

Acct. # _____ Group # _____ Sample # _____

Client: Groundwater Sciences Corporation				Matrix			Analyses Requested										For Lab Use Only			
Project Name/ #: 2024 Comprehensive Sampling		Site ID #: FYNOP, York PA		☐ Tissue	☒ Ground	☐ Surface	Preservation Codes										SF #: _____			
Project Manager: Chris O'Neil		P.O. #: 10012.52		☐ Potable	☐ NPDES		H										SCR #: _____			
Sampler: Casey Littlefield (GSC) Lucas Grimm (LDG)		PWSID #: N/A		☐ Sediment	☐ Water	☐ Other:	Aqueous VOCs via 8260D (standard level)										Preservation Codes			
Phone #: (717) 901-8176 / (717) 756-1246		Quote #:		☐ Soil	☐ Grab	☐ Composite											H = HCl		T = Thiosulfate	
State where samples were collected: York, PA		For Compliance: Yes ☐ No ☒		Collection													N = HNO ₃		B = NaOH	
		Date	Time	Grab	Composite												S = H ₂ SO ₄	P = H ₃ PO ₄		
Sample Identification																	O = Other			
HD-MW-18S-0/1-0		10/2/2024	8:55	X			GW		3	X										
HD-MW-111-0/1-0		10/2/2024	13:40	X			GW		3	X										
HD-MW-18D-0/1-0		10/2/2024	14:52	X			GW		3	X										
HD-GM-1D-0/1-0		10/3/2024	9:00	X			GW		3	X										
HD-MW-150-0/1-0		10/3/2024	11:15	X			GW		3	X										
HD-MW-18D-0/1-OMS		10/3/2024	14:52	X			GW		3	X										
HD-MW-18D-0/1-0MSD		10/3/2024	14:52	X			GW		3	X										
HD-Cole D-0/1-0		10/3/2024	12:30	X			GW		3	X										
HD-MW-69-0/1-0		10/3/2024	14:18	X			GW		3	X										
HD-QC2-0/1-1		10/3/2024	8:00	X			GW		3	X							Duplicate			
Turnaround Time Requested (TAT) (please check): Standard ☒ Rush ☐				(Rush TAT is subject to laboratory approval and surcharges.)		Relinquished by: <i>[Signature]</i>		Date: 10/4/24	Time: 1415	Received by: <i>[Signature]</i>		Date: 10/4/24	Time: 1415							
Date results are needed:						Relinquished by: <i>[Signature]</i>		Date: 10/4/24	Time: 1513	Received by:		Date:	Time:							
Rush results requested by (please check): E-Mail ☒ Phone ☐						Relinquished by:		Date:	Time:	Received by:		Date:	Time:							
E-mail Address: On-File						Relinquished by:		Date:	Time:	Received by:		Date:	Time:							
Phone:						Relinquished by:		Date:	Time:	Received by:		Date:	Time:							
Data Package Options (please check if required)						Relinquished by:		Date:	Time:	Received by:		Date:	Time:							
Type I (Validation/non-CLP) ☐		MA MCP ☐				Relinquished by:		Date:	Time:	Received by:		Date:	Time:							
Type III (Reduced non-CLP) ☐		CT RCP ☐				Relinquished by:		Date:	Time:	Received by:		Date:	Time:							
Type VI (Raw Data Only) ☐		TX TRRP-13 ☐				Relinquished by:		Date:	Time:	Received by: <i>[Signature]</i>		Date: 10/4/24	Time: 1513							
NJ DKQP ☐		NYSDEC Category ☐ A or ☐ B				Relinquished by Commercial Carrier:				Temperature upon receipt: 8:0.9 °C		2:0.3 °C								
EDD Required? Yes ☒ No ☐				If yes, format: _____		CLP Like Deliverables, Project Specific Analyte List		UPS _____ FedEx _____ Other ☒												

Environmental Analysis Request/Chain of Custody

pg. 2 of 2



Lancaster Laboratories
Environmental

Acct. # _____ Group # _____ Sample # _____

Client: Groundwater Sciences Corporation				Matrix			Analyses Requested										For Lab Use Only					
Project Name/##: 2024 Comprehensive Sampling		Site ID #: FYNOP, York PA		☐ Tissue ☒ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Water ☐ Other:	Total # of Containers	Preservation Codes										SF #: _____						
Project Manager: Chris O'Neil		P.O. #: 10012.52				H										SCR #: _____						
Sampler: Casey Littlefield (GSC) Lucas Grimm (LDG)		PWSID #: N/A														Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other						
Phone #: (717) 901-8176 / (717) 756-1246		Quote #:																				
State where samples were collected: York, PA		For Compliance: Yes ☐ No ☒		☐ Sediment ☐ Soil ☐ Grab ☐ Composite												Remarks						
Sample Identification				Date	Time	Grab	Composite	Soil	Water	Other:	Aqueous VOCs via 8260D (standard level)											
HD-Cole Steel MW-12-0/1-0				10/4/2024	9:43	X			GW		3	X										
HD-MW-165-0/1-0				10/4/2024	10:05	X			GW		3	X										
HD-FOLK (RW-4)-0/1-0				10/4/2024	11:30	X			GW		3	X										
HD-MW-43D-0/1-0				10/4/2024	10:20	X			GW		3	X										
HD-MW-16S-0/1-0				10/4/2024	11:40	X			GW		3	X										
HD-MW-82-0/1-0				10/4/2024	1225	X			GW		3	X										
HD-QC2-0/1-3				10/4/2024	11:55	X			GW		3	X										
HD-QC2-0/1-4				10/4/2024	12:00	X			GW		3	X										
HD-QC3-0/1-2				10/2/2024					W		2	X	Trip Blank									
HD-MW-110-0/1-0				10/3/2024	14:02	X			GW		3	X										
Turnaround Time Requested (TAT) (please check):				Standard ☒ Rush ☐		Relinquished by:		Date	Time	Received by:		Date	Time									
(Rush TAT is subject to laboratory approval and surcharges.)						<i>[Signature]</i>		10/4/24	1415	<i>[Signature]</i>		10/4/24	1415									
Date results are needed:						Relinquished by:		Date	Time	Received by:		Date	Time									
						<i>[Signature]</i>		10/4/24	1513													
Rush results requested by (please check):				E-Mail ☒ Phone ☐		Relinquished by:		Date	Time	Received by:		Date	Time									
E-mail Address: On-File																						
Phone:																						
Data Package Options (please check if required)						Relinquished by:		Date	Time	Received by:		Date	Time									
Type I (Validation/non-CLP) ☐ MA MCP ☐																						
Type III (Reduced non-CLP) ☐ CT RCP ☐																						
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐																						
NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B																						
CLP Like Deliverables, Project Specific Analyte List						Relinquished by Commercial Carrier:				Temperature upon receipt		61.09 C 50.3										
EDD Required? Yes ☒ No ☐				If yes, format: _____		UPS _____ FedEx _____ Other ☒																

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-191048-1

Login Number: 191048

List Number: 2

Creator: Reiff, Nicole L

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	