



ANALYTICAL REPORT

PREPARED FOR

Attn: Christopher O'Neil
Groundwater Sciences Corporation
2550 Interstate Drive
Suite 303
Harrisburg PA 17110

Generated 07/31/2024

JOB DESCRIPTION

fYNOP Monthly Surface Water

JOB NUMBER

410-181527-1

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
07/31/2024

Authorized for release by
Kelly Gallagher, Project Manager
kelly.gallagher@et.eurofinsus.com
717 205-7820

Table of Contents

Cover Page	1
Data Summaries	4
Definitions	4
Case Narrative	5
Detection Summary	6
Client Sample Results	9
Default Detection Limits	24
Surrogate Summary	25
QC Sample Results	26
QC Association	30
Chronicle	31
Certification Summary	34
Method Summary	35
Sample Summary	36
Manual Integration Summary	37
Reagent Traceability	45
COAs	60
Organic Sample Data	153
GC/MS VOA	153
Method 8260D Low Level	153
Method 8260D Low Level QC Summary	154
Method 8260D Low Level Sample Data	165
Standards Data	337
Method 8260D Low Level ICAL Data	337
Method 8260D Low Level CCAL Data	571
Raw QC Data	590
Method 8260D Low Level Tune Data	590
Method 8260D Low Level Blank Data	598
Method 8260D Low Level LCS/LCSD Data	607
Method 8260D Low Level MS/MSD Data	615
Method 8260D Low Level Run Logs	631
Method 8260D Low Level Prep Data	633
Shipping and Receiving Documents	641
Client Chain of Custody	642
Sample Receipt Checklist	644

Definitions/Glossary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.
α	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
410-181527-1

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 7/26/2024 11:10 AM. 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 3.2°C.

GC/MS VOA

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: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-6-0/1-0

Lab Sample ID: 410-181527-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.7	J	5.0	1.5	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.086	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.11	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-7-0/1-0

Lab Sample ID: 410-181527-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.8	J	5.0	1.5	ug/L	1		8260D	Total/NA
Chloroform	0.14	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.10	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.14	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-8-0/1-0

Lab Sample ID: 410-181527-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J	5.0	1.5	ug/L	1		8260D	Total/NA
Chloroform	0.094	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.17	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.94		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.22	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-9-0/1-0

Lab Sample ID: 410-181527-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.3	J	5.0	1.5	ug/L	1		8260D	Total/NA
Chloroform	0.093	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.082	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.30	J	0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.11	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.090	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-13-0/1-0

Lab Sample ID: 410-181527-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.14	J	0.50	0.080	ug/L	1		8260D	Total/NA
Acetone	1.9	J	5.0	1.5	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.20	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.9		0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.081	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.25	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-15-0/1-0

Lab Sample ID: 410-181527-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.40	J	0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.13	J	0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.21	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.19	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.5		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	6.2		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	1.4		0.50	0.080	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-16-0/1-0

Lab Sample ID: 410-181527-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.14	J	0.50	0.080	ug/L	1		8260D	Total/NA
Acetone	1.7	J	5.0	1.5	ug/L	1		8260D	Total/NA
Chloroform	0.10	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.20	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	2.1		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.27	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-17-0/1-0

Lab Sample ID: 410-181527-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	12		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	2.1		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.98		0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.17	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3.2		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	6.4		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	140		5.0	2.0	ug/L	10		8260D	Total/NA

Client Sample ID: HD-COD-SW-26-0/1-0

Lab Sample ID: 410-181527-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.12	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.62		0.50	0.090	ug/L	1		8260D	Total/NA
Tetrachloroethene	3.7		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-27-0/1-0

Lab Sample ID: 410-181527-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.8	J	5.0	1.5	ug/L	1		8260D	Total/NA
Chloroform	0.12	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.10	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-28-0/1-0

Lab Sample ID: 410-181527-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.6	J	5.0	1.5	ug/L	1		8260D	Total/NA
Chloroform	0.11	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.10	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.33	J	0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.088	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.12	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-29-0/1-0

Lab Sample ID: 410-181527-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.9	J	5.0	1.5	ug/L	1		8260D	Total/NA
Chloroform	0.097	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.57		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.20	J	0.50	0.080	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-QC1-0/1-1

Lab Sample ID: 410-181527-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	12		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	2.1		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	1.0		0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.18	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3.3		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	6.5		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	140		5.0	2.0	ug/L	10		8260D	Total/NA

Client Sample ID: HD-QC1-0/1-2

Lab Sample ID: 410-181527-14

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-6-0/1-0

Lab Sample ID: 410-181527-1

Date Collected: 07/25/24 10:30

Matrix: Water

Date Received: 07/26/24 11:10

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		0.50	0.070	ug/L			07/29/24 23:38	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			07/29/24 23:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			07/29/24 23:38	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			07/29/24 23:38	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			07/29/24 23:38	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			07/29/24 23:38	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			07/29/24 23:38	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			07/29/24 23:38	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			07/29/24 23:38	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			07/29/24 23:38	1
2-Hexanone	ND		5.0	2.0	ug/L			07/29/24 23:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			07/29/24 23:38	1
Acetone	1.7	J	5.0	1.5	ug/L			07/29/24 23:38	1
Benzene	ND		0.50	0.10	ug/L			07/29/24 23:38	1
Bromochloromethane	ND		0.50	0.080	ug/L			07/29/24 23:38	1
Bromodichloromethane	ND		0.50	0.080	ug/L			07/29/24 23:38	1
Bromoform	ND		1.0	0.30	ug/L			07/29/24 23:38	1
Bromomethane	ND		0.50	0.10	ug/L			07/29/24 23:38	1
Carbon disulfide	ND		1.0	0.10	ug/L			07/29/24 23:38	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			07/29/24 23:38	1
Chlorobenzene	ND		0.50	0.070	ug/L			07/29/24 23:38	1
Chloroethane	ND		0.50	0.10	ug/L			07/29/24 23:38	1
Chloroform	ND		0.50	0.090	ug/L			07/29/24 23:38	1
Chloromethane	ND		0.50	0.10	ug/L			07/29/24 23:38	1
cis-1,2-Dichloroethene	0.086	J	0.50	0.080	ug/L			07/29/24 23:38	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/24 23:38	1
Dibromochloromethane	ND		0.50	0.080	ug/L			07/29/24 23:38	1
Ethylbenzene	ND		0.50	0.080	ug/L			07/29/24 23:38	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			07/29/24 23:38	1
Methylene Chloride	ND		0.50	0.20	ug/L			07/29/24 23:38	1
Styrene	ND		0.50	0.070	ug/L			07/29/24 23:38	1
Tetrachloroethene	ND		0.50	0.20	ug/L			07/29/24 23:38	1
Toluene	ND		0.50	0.080	ug/L			07/29/24 23:38	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			07/29/24 23:38	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/24 23:38	1
Trichloroethene	0.11	J	0.50	0.080	ug/L			07/29/24 23:38	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/29/24 23:38	1
Xylenes, Total	ND		1.0	0.070	ug/L			07/29/24 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		07/29/24 23:38	1
4-Bromofluorobenzene (Surr)	95		80 - 120		07/29/24 23:38	1
Dibromofluoromethane (Surr)	100		80 - 120		07/29/24 23:38	1
Toluene-d8 (Surr)	101		80 - 120		07/29/24 23:38	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-7-0/1-0

Lab Sample ID: 410-181527-2

Date Collected: 07/25/24 11:15

Matrix: Water

Date Received: 07/26/24 11:10

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		0.50	0.070	ug/L			07/30/24 00:00	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 00:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			07/30/24 00:00	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 00:00	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			07/30/24 00:00	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 00:00	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			07/30/24 00:00	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			07/30/24 00:00	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			07/30/24 00:00	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			07/30/24 00:00	1
2-Hexanone	ND		5.0	2.0	ug/L			07/30/24 00:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			07/30/24 00:00	1
Acetone	1.8	J	5.0	1.5	ug/L			07/30/24 00:00	1
Benzene	ND		0.50	0.10	ug/L			07/30/24 00:00	1
Bromochloromethane	ND		0.50	0.080	ug/L			07/30/24 00:00	1
Bromodichloromethane	ND		0.50	0.080	ug/L			07/30/24 00:00	1
Bromoform	ND		1.0	0.30	ug/L			07/30/24 00:00	1
Bromomethane	ND		0.50	0.10	ug/L			07/30/24 00:00	1
Carbon disulfide	ND		1.0	0.10	ug/L			07/30/24 00:00	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			07/30/24 00:00	1
Chlorobenzene	ND		0.50	0.070	ug/L			07/30/24 00:00	1
Chloroethane	ND		0.50	0.10	ug/L			07/30/24 00:00	1
Chloroform	0.14	J	0.50	0.090	ug/L			07/30/24 00:00	1
Chloromethane	ND		0.50	0.10	ug/L			07/30/24 00:00	1
cis-1,2-Dichloroethene	0.10	J	0.50	0.080	ug/L			07/30/24 00:00	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/24 00:00	1
Dibromochloromethane	ND		0.50	0.080	ug/L			07/30/24 00:00	1
Ethylbenzene	ND		0.50	0.080	ug/L			07/30/24 00:00	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			07/30/24 00:00	1
Methylene Chloride	ND		0.50	0.20	ug/L			07/30/24 00:00	1
Styrene	ND		0.50	0.070	ug/L			07/30/24 00:00	1
Tetrachloroethene	ND		0.50	0.20	ug/L			07/30/24 00:00	1
Toluene	ND		0.50	0.080	ug/L			07/30/24 00:00	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 00:00	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/24 00:00	1
Trichloroethene	0.14	J	0.50	0.080	ug/L			07/30/24 00:00	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/30/24 00:00	1
Xylenes, Total	ND		1.0	0.070	ug/L			07/30/24 00:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		07/30/24 00:00	1
4-Bromofluorobenzene (Surr)	95		80 - 120		07/30/24 00:00	1
Dibromofluoromethane (Surr)	99		80 - 120		07/30/24 00:00	1
Toluene-d8 (Surr)	101		80 - 120		07/30/24 00:00	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-8-0/1-0

Lab Sample ID: 410-181527-3

Date Collected: 07/25/24 09:10

Matrix: Water

Date Received: 07/26/24 11:10

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		0.50	0.070	ug/L			07/30/24 00:22	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 00:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			07/30/24 00:22	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 00:22	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			07/30/24 00:22	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 00:22	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			07/30/24 00:22	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			07/30/24 00:22	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			07/30/24 00:22	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			07/30/24 00:22	1
2-Hexanone	ND		5.0	2.0	ug/L			07/30/24 00:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			07/30/24 00:22	1
Acetone	1.6	J	5.0	1.5	ug/L			07/30/24 00:22	1
Benzene	ND		0.50	0.10	ug/L			07/30/24 00:22	1
Bromochloromethane	ND		0.50	0.080	ug/L			07/30/24 00:22	1
Bromodichloromethane	ND		0.50	0.080	ug/L			07/30/24 00:22	1
Bromoform	ND		1.0	0.30	ug/L			07/30/24 00:22	1
Bromomethane	ND		0.50	0.10	ug/L			07/30/24 00:22	1
Carbon disulfide	ND		1.0	0.10	ug/L			07/30/24 00:22	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			07/30/24 00:22	1
Chlorobenzene	ND		0.50	0.070	ug/L			07/30/24 00:22	1
Chloroethane	ND		0.50	0.10	ug/L			07/30/24 00:22	1
Chloroform	0.094	J	0.50	0.090	ug/L			07/30/24 00:22	1
Chloromethane	ND		0.50	0.10	ug/L			07/30/24 00:22	1
cis-1,2-Dichloroethene	0.17	J	0.50	0.080	ug/L			07/30/24 00:22	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/24 00:22	1
Dibromochloromethane	ND		0.50	0.080	ug/L			07/30/24 00:22	1
Ethylbenzene	ND		0.50	0.080	ug/L			07/30/24 00:22	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			07/30/24 00:22	1
Methylene Chloride	ND		0.50	0.20	ug/L			07/30/24 00:22	1
Styrene	ND		0.50	0.070	ug/L			07/30/24 00:22	1
Tetrachloroethene	0.94		0.50	0.20	ug/L			07/30/24 00:22	1
Toluene	ND		0.50	0.080	ug/L			07/30/24 00:22	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 00:22	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/24 00:22	1
Trichloroethene	0.22	J	0.50	0.080	ug/L			07/30/24 00:22	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/30/24 00:22	1
Xylenes, Total	ND		1.0	0.070	ug/L			07/30/24 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		07/30/24 00:22	1
4-Bromofluorobenzene (Surr)	94		80 - 120		07/30/24 00:22	1
Dibromofluoromethane (Surr)	100		80 - 120		07/30/24 00:22	1
Toluene-d8 (Surr)	98		80 - 120		07/30/24 00:22	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-9-0/1-0

Lab Sample ID: 410-181527-4

Date Collected: 07/25/24 12:50

Matrix: Water

Date Received: 07/26/24 11:10

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		0.50	0.070	ug/L			07/30/24 00:45	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 00:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			07/30/24 00:45	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 00:45	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			07/30/24 00:45	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 00:45	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			07/30/24 00:45	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			07/30/24 00:45	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			07/30/24 00:45	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			07/30/24 00:45	1
2-Hexanone	ND		5.0	2.0	ug/L			07/30/24 00:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			07/30/24 00:45	1
Acetone	3.3	J	5.0	1.5	ug/L			07/30/24 00:45	1
Benzene	ND		0.50	0.10	ug/L			07/30/24 00:45	1
Bromochloromethane	ND		0.50	0.080	ug/L			07/30/24 00:45	1
Bromodichloromethane	ND		0.50	0.080	ug/L			07/30/24 00:45	1
Bromoform	ND		1.0	0.30	ug/L			07/30/24 00:45	1
Bromomethane	ND		0.50	0.10	ug/L			07/30/24 00:45	1
Carbon disulfide	ND		1.0	0.10	ug/L			07/30/24 00:45	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			07/30/24 00:45	1
Chlorobenzene	ND		0.50	0.070	ug/L			07/30/24 00:45	1
Chloroethane	ND		0.50	0.10	ug/L			07/30/24 00:45	1
Chloroform	0.093	J	0.50	0.090	ug/L			07/30/24 00:45	1
Chloromethane	ND		0.50	0.10	ug/L			07/30/24 00:45	1
cis-1,2-Dichloroethene	0.082	J	0.50	0.080	ug/L			07/30/24 00:45	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/24 00:45	1
Dibromochloromethane	ND		0.50	0.080	ug/L			07/30/24 00:45	1
Ethylbenzene	ND		0.50	0.080	ug/L			07/30/24 00:45	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			07/30/24 00:45	1
Methylene Chloride	ND		0.50	0.20	ug/L			07/30/24 00:45	1
Styrene	ND		0.50	0.070	ug/L			07/30/24 00:45	1
Tetrachloroethene	0.30	J	0.50	0.20	ug/L			07/30/24 00:45	1
Toluene	0.11	J	0.50	0.080	ug/L			07/30/24 00:45	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 00:45	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/24 00:45	1
Trichloroethene	0.090	J	0.50	0.080	ug/L			07/30/24 00:45	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/30/24 00:45	1
Xylenes, Total	ND		1.0	0.070	ug/L			07/30/24 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120					07/30/24 00:45	1
4-Bromofluorobenzene (Surr)	95		80 - 120					07/30/24 00:45	1
Dibromofluoromethane (Surr)	100		80 - 120					07/30/24 00:45	1
Toluene-d8 (Surr)	100		80 - 120					07/30/24 00:45	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-13-0/1-0

Lab Sample ID: 410-181527-5

Date Collected: 07/25/24 09:30

Matrix: Water

Date Received: 07/26/24 11:10

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		0.50	0.070	ug/L			07/30/24 01:07	1
1,1,1-Trichloroethane	0.14	J	0.50	0.080	ug/L			07/30/24 01:07	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			07/30/24 01:07	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 01:07	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			07/30/24 01:07	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 01:07	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			07/30/24 01:07	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			07/30/24 01:07	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			07/30/24 01:07	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			07/30/24 01:07	1
2-Hexanone	ND		5.0	2.0	ug/L			07/30/24 01:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			07/30/24 01:07	1
Acetone	1.9	J	5.0	1.5	ug/L			07/30/24 01:07	1
Benzene	ND		0.50	0.10	ug/L			07/30/24 01:07	1
Bromochloromethane	ND		0.50	0.080	ug/L			07/30/24 01:07	1
Bromodichloromethane	ND		0.50	0.080	ug/L			07/30/24 01:07	1
Bromoform	ND		1.0	0.30	ug/L			07/30/24 01:07	1
Bromomethane	ND		0.50	0.10	ug/L			07/30/24 01:07	1
Carbon disulfide	ND		1.0	0.10	ug/L			07/30/24 01:07	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			07/30/24 01:07	1
Chlorobenzene	ND		0.50	0.070	ug/L			07/30/24 01:07	1
Chloroethane	ND		0.50	0.10	ug/L			07/30/24 01:07	1
Chloroform	ND		0.50	0.090	ug/L			07/30/24 01:07	1
Chloromethane	ND		0.50	0.10	ug/L			07/30/24 01:07	1
cis-1,2-Dichloroethene	0.20	J	0.50	0.080	ug/L			07/30/24 01:07	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/24 01:07	1
Dibromochloromethane	ND		0.50	0.080	ug/L			07/30/24 01:07	1
Ethylbenzene	ND		0.50	0.080	ug/L			07/30/24 01:07	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			07/30/24 01:07	1
Methylene Chloride	ND		0.50	0.20	ug/L			07/30/24 01:07	1
Styrene	ND		0.50	0.070	ug/L			07/30/24 01:07	1
Tetrachloroethene	1.9		0.50	0.20	ug/L			07/30/24 01:07	1
Toluene	0.081	J	0.50	0.080	ug/L			07/30/24 01:07	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 01:07	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/24 01:07	1
Trichloroethene	0.25	J	0.50	0.080	ug/L			07/30/24 01:07	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/30/24 01:07	1
Xylenes, Total	ND		1.0	0.070	ug/L			07/30/24 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		07/30/24 01:07	1
4-Bromofluorobenzene (Surr)	97		80 - 120		07/30/24 01:07	1
Dibromofluoromethane (Surr)	100		80 - 120		07/30/24 01:07	1
Toluene-d8 (Surr)	101		80 - 120		07/30/24 01:07	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-15-0/1-0

Lab Sample ID: 410-181527-6

Date Collected: 07/25/24 11:40

Matrix: Water

Date Received: 07/26/24 11:10

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		0.50	0.070	ug/L			07/30/24 01:29	1
1,1,1-Trichloroethane	0.40	J	0.50	0.080	ug/L			07/30/24 01:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			07/30/24 01:29	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 01:29	1
1,1-Dichloroethane	0.13	J	0.50	0.10	ug/L			07/30/24 01:29	1
1,1-Dichloroethene	0.21	J	0.50	0.10	ug/L			07/30/24 01:29	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			07/30/24 01:29	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			07/30/24 01:29	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			07/30/24 01:29	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			07/30/24 01:29	1
2-Hexanone	ND		5.0	2.0	ug/L			07/30/24 01:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			07/30/24 01:29	1
Acetone	ND		5.0	1.5	ug/L			07/30/24 01:29	1
Benzene	ND		0.50	0.10	ug/L			07/30/24 01:29	1
Bromochloromethane	ND		0.50	0.080	ug/L			07/30/24 01:29	1
Bromodichloromethane	ND		0.50	0.080	ug/L			07/30/24 01:29	1
Bromoform	ND		1.0	0.30	ug/L			07/30/24 01:29	1
Bromomethane	ND		0.50	0.10	ug/L			07/30/24 01:29	1
Carbon disulfide	ND		1.0	0.10	ug/L			07/30/24 01:29	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			07/30/24 01:29	1
Chlorobenzene	ND		0.50	0.070	ug/L			07/30/24 01:29	1
Chloroethane	ND		0.50	0.10	ug/L			07/30/24 01:29	1
Chloroform	0.19	J	0.50	0.090	ug/L			07/30/24 01:29	1
Chloromethane	ND		0.50	0.10	ug/L			07/30/24 01:29	1
cis-1,2-Dichloroethene	1.5		0.50	0.080	ug/L			07/30/24 01:29	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/24 01:29	1
Dibromochloromethane	ND		0.50	0.080	ug/L			07/30/24 01:29	1
Ethylbenzene	ND		0.50	0.080	ug/L			07/30/24 01:29	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			07/30/24 01:29	1
Methylene Chloride	ND		0.50	0.20	ug/L			07/30/24 01:29	1
Styrene	ND		0.50	0.070	ug/L			07/30/24 01:29	1
Tetrachloroethene	6.2		0.50	0.20	ug/L			07/30/24 01:29	1
Toluene	ND		0.50	0.080	ug/L			07/30/24 01:29	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 01:29	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/24 01:29	1
Trichloroethene	1.4		0.50	0.080	ug/L			07/30/24 01:29	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/30/24 01:29	1
Xylenes, Total	ND		1.0	0.070	ug/L			07/30/24 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		07/30/24 01:29	1
4-Bromofluorobenzene (Surr)	95		80 - 120		07/30/24 01:29	1
Dibromofluoromethane (Surr)	100		80 - 120		07/30/24 01:29	1
Toluene-d8 (Surr)	100		80 - 120		07/30/24 01:29	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-16-0/1-0

Lab Sample ID: 410-181527-7

Date Collected: 07/25/24 09:50

Matrix: Water

Date Received: 07/26/24 11:10

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		0.50	0.070	ug/L			07/30/24 02:36	1
1,1,1-Trichloroethane	0.14	J	0.50	0.080	ug/L			07/30/24 02:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			07/30/24 02:36	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 02:36	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			07/30/24 02:36	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 02:36	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			07/30/24 02:36	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			07/30/24 02:36	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			07/30/24 02:36	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			07/30/24 02:36	1
2-Hexanone	ND		5.0	2.0	ug/L			07/30/24 02:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			07/30/24 02:36	1
Acetone	1.7	J	5.0	1.5	ug/L			07/30/24 02:36	1
Benzene	ND		0.50	0.10	ug/L			07/30/24 02:36	1
Bromochloromethane	ND		0.50	0.080	ug/L			07/30/24 02:36	1
Bromodichloromethane	ND		0.50	0.080	ug/L			07/30/24 02:36	1
Bromoform	ND		1.0	0.30	ug/L			07/30/24 02:36	1
Bromomethane	ND		0.50	0.10	ug/L			07/30/24 02:36	1
Carbon disulfide	ND		1.0	0.10	ug/L			07/30/24 02:36	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			07/30/24 02:36	1
Chlorobenzene	ND		0.50	0.070	ug/L			07/30/24 02:36	1
Chloroethane	ND		0.50	0.10	ug/L			07/30/24 02:36	1
Chloroform	0.10	J	0.50	0.090	ug/L			07/30/24 02:36	1
Chloromethane	ND		0.50	0.10	ug/L			07/30/24 02:36	1
cis-1,2-Dichloroethene	0.20	J	0.50	0.080	ug/L			07/30/24 02:36	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/24 02:36	1
Dibromochloromethane	ND		0.50	0.080	ug/L			07/30/24 02:36	1
Ethylbenzene	ND		0.50	0.080	ug/L			07/30/24 02:36	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			07/30/24 02:36	1
Methylene Chloride	ND		0.50	0.20	ug/L			07/30/24 02:36	1
Styrene	ND		0.50	0.070	ug/L			07/30/24 02:36	1
Tetrachloroethene	2.1		0.50	0.20	ug/L			07/30/24 02:36	1
Toluene	ND		0.50	0.080	ug/L			07/30/24 02:36	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 02:36	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/24 02:36	1
Trichloroethene	0.27	J	0.50	0.080	ug/L			07/30/24 02:36	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/30/24 02:36	1
Xylenes, Total	ND		1.0	0.070	ug/L			07/30/24 02:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		07/30/24 02:36	1
4-Bromofluorobenzene (Surr)	94		80 - 120		07/30/24 02:36	1
Dibromofluoromethane (Surr)	100		80 - 120		07/30/24 02:36	1
Toluene-d8 (Surr)	100		80 - 120		07/30/24 02:36	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-17-0/1-0

Lab Sample ID: 410-181527-8

Date Collected: 07/25/24 10:05

Matrix: Water

Date Received: 07/26/24 11:10

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		0.50	0.070	ug/L			07/30/24 04:28	1
1,1,1-Trichloroethane	12		0.50	0.080	ug/L			07/30/24 04:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			07/30/24 04:28	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 04:28	1
1,1-Dichloroethane	2.1		0.50	0.10	ug/L			07/30/24 04:28	1
1,1-Dichloroethene	0.98		0.50	0.10	ug/L			07/30/24 04:28	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			07/30/24 04:28	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			07/30/24 04:28	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			07/30/24 04:28	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			07/30/24 04:28	1
2-Hexanone	ND		5.0	2.0	ug/L			07/30/24 04:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			07/30/24 04:28	1
Acetone	ND		5.0	1.5	ug/L			07/30/24 04:28	1
Benzene	ND		0.50	0.10	ug/L			07/30/24 04:28	1
Bromochloromethane	ND		0.50	0.080	ug/L			07/30/24 04:28	1
Bromodichloromethane	ND		0.50	0.080	ug/L			07/30/24 04:28	1
Bromoform	ND		1.0	0.30	ug/L			07/30/24 04:28	1
Bromomethane	ND		0.50	0.10	ug/L			07/30/24 04:28	1
Carbon disulfide	ND		1.0	0.10	ug/L			07/30/24 04:28	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			07/30/24 04:28	1
Chlorobenzene	ND		0.50	0.070	ug/L			07/30/24 04:28	1
Chloroethane	ND		0.50	0.10	ug/L			07/30/24 04:28	1
Chloroform	0.17	J	0.50	0.090	ug/L			07/30/24 04:28	1
Chloromethane	ND		0.50	0.10	ug/L			07/30/24 04:28	1
cis-1,2-Dichloroethene	3.2		0.50	0.080	ug/L			07/30/24 04:28	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/24 04:28	1
Dibromochloromethane	ND		0.50	0.080	ug/L			07/30/24 04:28	1
Ethylbenzene	ND		0.50	0.080	ug/L			07/30/24 04:28	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			07/30/24 04:28	1
Methylene Chloride	ND		0.50	0.20	ug/L			07/30/24 04:28	1
Styrene	ND		0.50	0.070	ug/L			07/30/24 04:28	1
Toluene	ND		0.50	0.080	ug/L			07/30/24 04:28	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 04:28	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/24 04:28	1
Trichloroethene	6.4		0.50	0.080	ug/L			07/30/24 04:28	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/30/24 04:28	1
Xylenes, Total	ND		1.0	0.070	ug/L			07/30/24 04:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		07/30/24 04:28	1
4-Bromofluorobenzene (Surr)	93		80 - 120		07/30/24 04:28	1
Dibromofluoromethane (Surr)	101		80 - 120		07/30/24 04:28	1
Toluene-d8 (Surr)	96		80 - 120		07/30/24 04:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	140		5.0	2.0	ug/L			07/30/24 04:50	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120					07/30/24 04:50	10

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-17-0/1-0

Lab Sample ID: 410-181527-8

Date Collected: 07/25/24 10:05

Matrix: Water

Date Received: 07/26/24 11:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		07/30/24 04:50	10
Dibromofluoromethane (Surr)	100		80 - 120		07/30/24 04:50	10
Toluene-d8 (Surr)	98		80 - 120		07/30/24 04:50	10

Client Sample ID: HD-COD-SW-26-0/1-0

Lab Sample ID: 410-181527-9

Date Collected: 07/25/24 10:55

Matrix: Water

Date Received: 07/26/24 11:10

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		0.50	0.070	ug/L			07/30/24 02:58	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 02:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			07/30/24 02:58	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 02:58	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			07/30/24 02:58	1
1,1-Dichloroethene	0.12	J	0.50	0.10	ug/L			07/30/24 02:58	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			07/30/24 02:58	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			07/30/24 02:58	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			07/30/24 02:58	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			07/30/24 02:58	1
2-Hexanone	ND		5.0	2.0	ug/L			07/30/24 02:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			07/30/24 02:58	1
Acetone	ND		5.0	1.5	ug/L			07/30/24 02:58	1
Benzene	ND		0.50	0.10	ug/L			07/30/24 02:58	1
Bromochloromethane	ND		0.50	0.080	ug/L			07/30/24 02:58	1
Bromodichloromethane	ND		0.50	0.080	ug/L			07/30/24 02:58	1
Bromoform	ND		1.0	0.30	ug/L			07/30/24 02:58	1
Bromomethane	ND		0.50	0.10	ug/L			07/30/24 02:58	1
Carbon disulfide	ND		1.0	0.10	ug/L			07/30/24 02:58	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			07/30/24 02:58	1
Chlorobenzene	ND		0.50	0.070	ug/L			07/30/24 02:58	1
Chloroethane	ND		0.50	0.10	ug/L			07/30/24 02:58	1
Chloroform	0.62		0.50	0.090	ug/L			07/30/24 02:58	1
Chloromethane	ND		0.50	0.10	ug/L			07/30/24 02:58	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			07/30/24 02:58	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/24 02:58	1
Dibromochloromethane	ND		0.50	0.080	ug/L			07/30/24 02:58	1
Ethylbenzene	ND		0.50	0.080	ug/L			07/30/24 02:58	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			07/30/24 02:58	1
Methylene Chloride	ND		0.50	0.20	ug/L			07/30/24 02:58	1
Styrene	ND		0.50	0.070	ug/L			07/30/24 02:58	1
Tetrachloroethene	3.7		0.50	0.20	ug/L			07/30/24 02:58	1
Toluene	ND		0.50	0.080	ug/L			07/30/24 02:58	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 02:58	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/24 02:58	1
Trichloroethene	0.16	J	0.50	0.080	ug/L			07/30/24 02:58	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/30/24 02:58	1
Xylenes, Total	ND		1.0	0.070	ug/L			07/30/24 02:58	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-26-0/1-0

Lab Sample ID: 410-181527-9

Date Collected: 07/25/24 10:55

Matrix: Water

Date Received: 07/26/24 11:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		07/30/24 02:58	1
4-Bromofluorobenzene (Surr)	95		80 - 120		07/30/24 02:58	1
Dibromofluoromethane (Surr)	99		80 - 120		07/30/24 02:58	1
Toluene-d8 (Surr)	99		80 - 120		07/30/24 02:58	1

Client Sample ID: HD-COD-SW-27-0/1-0

Lab Sample ID: 410-181527-10

Date Collected: 07/25/24 11:30

Matrix: Water

Date Received: 07/26/24 11:10

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		0.50	0.070	ug/L			07/30/24 03:21	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 03:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			07/30/24 03:21	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 03:21	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			07/30/24 03:21	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 03:21	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			07/30/24 03:21	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			07/30/24 03:21	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			07/30/24 03:21	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			07/30/24 03:21	1
2-Hexanone	ND		5.0	2.0	ug/L			07/30/24 03:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			07/30/24 03:21	1
Acetone	1.8	J	5.0	1.5	ug/L			07/30/24 03:21	1
Benzene	ND		0.50	0.10	ug/L			07/30/24 03:21	1
Bromochloromethane	ND		0.50	0.080	ug/L			07/30/24 03:21	1
Bromodichloromethane	ND		0.50	0.080	ug/L			07/30/24 03:21	1
Bromoform	ND		1.0	0.30	ug/L			07/30/24 03:21	1
Bromomethane	ND		0.50	0.10	ug/L			07/30/24 03:21	1
Carbon disulfide	ND		1.0	0.10	ug/L			07/30/24 03:21	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			07/30/24 03:21	1
Chlorobenzene	ND		0.50	0.070	ug/L			07/30/24 03:21	1
Chloroethane	ND		0.50	0.10	ug/L			07/30/24 03:21	1
Chloroform	0.12	J	0.50	0.090	ug/L			07/30/24 03:21	1
Chloromethane	ND		0.50	0.10	ug/L			07/30/24 03:21	1
cis-1,2-Dichloroethene	0.10	J	0.50	0.080	ug/L			07/30/24 03:21	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/24 03:21	1
Dibromochloromethane	ND		0.50	0.080	ug/L			07/30/24 03:21	1
Ethylbenzene	ND		0.50	0.080	ug/L			07/30/24 03:21	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			07/30/24 03:21	1
Methylene Chloride	ND		0.50	0.20	ug/L			07/30/24 03:21	1
Styrene	ND		0.50	0.070	ug/L			07/30/24 03:21	1
Tetrachloroethene	ND		0.50	0.20	ug/L			07/30/24 03:21	1
Toluene	ND		0.50	0.080	ug/L			07/30/24 03:21	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 03:21	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/24 03:21	1
Trichloroethene	0.15	J	0.50	0.080	ug/L			07/30/24 03:21	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/30/24 03:21	1
Xylenes, Total	ND		1.0	0.070	ug/L			07/30/24 03:21	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-27-0/1-0

Lab Sample ID: 410-181527-10

Date Collected: 07/25/24 11:30

Matrix: Water

Date Received: 07/26/24 11:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		07/30/24 03:21	1
4-Bromofluorobenzene (Surr)	94		80 - 120		07/30/24 03:21	1
Dibromofluoromethane (Surr)	100		80 - 120		07/30/24 03:21	1
Toluene-d8 (Surr)	100		80 - 120		07/30/24 03:21	1

Client Sample ID: HD-COD-SW-28-0/1-0

Lab Sample ID: 410-181527-11

Date Collected: 07/25/24 13:15

Matrix: Water

Date Received: 07/26/24 11:10

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		0.50	0.070	ug/L			07/30/24 03:43	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 03:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			07/30/24 03:43	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 03:43	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			07/30/24 03:43	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 03:43	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			07/30/24 03:43	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			07/30/24 03:43	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			07/30/24 03:43	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			07/30/24 03:43	1
2-Hexanone	ND		5.0	2.0	ug/L			07/30/24 03:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			07/30/24 03:43	1
Acetone	3.6	J	5.0	1.5	ug/L			07/30/24 03:43	1
Benzene	ND		0.50	0.10	ug/L			07/30/24 03:43	1
Bromochloromethane	ND		0.50	0.080	ug/L			07/30/24 03:43	1
Bromodichloromethane	ND		0.50	0.080	ug/L			07/30/24 03:43	1
Bromoform	ND		1.0	0.30	ug/L			07/30/24 03:43	1
Bromomethane	ND		0.50	0.10	ug/L			07/30/24 03:43	1
Carbon disulfide	ND		1.0	0.10	ug/L			07/30/24 03:43	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			07/30/24 03:43	1
Chlorobenzene	ND		0.50	0.070	ug/L			07/30/24 03:43	1
Chloroethane	ND		0.50	0.10	ug/L			07/30/24 03:43	1
Chloroform	0.11	J	0.50	0.090	ug/L			07/30/24 03:43	1
Chloromethane	ND		0.50	0.10	ug/L			07/30/24 03:43	1
cis-1,2-Dichloroethene	0.10	J	0.50	0.080	ug/L			07/30/24 03:43	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/24 03:43	1
Dibromochloromethane	ND		0.50	0.080	ug/L			07/30/24 03:43	1
Ethylbenzene	ND		0.50	0.080	ug/L			07/30/24 03:43	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			07/30/24 03:43	1
Methylene Chloride	ND		0.50	0.20	ug/L			07/30/24 03:43	1
Styrene	ND		0.50	0.070	ug/L			07/30/24 03:43	1
Tetrachloroethene	0.33	J	0.50	0.20	ug/L			07/30/24 03:43	1
Toluene	0.088	J	0.50	0.080	ug/L			07/30/24 03:43	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 03:43	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/24 03:43	1
Trichloroethene	0.12	J	0.50	0.080	ug/L			07/30/24 03:43	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/30/24 03:43	1
Xylenes, Total	ND		1.0	0.070	ug/L			07/30/24 03:43	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-28-0/1-0

Lab Sample ID: 410-181527-11

Date Collected: 07/25/24 13:15

Matrix: Water

Date Received: 07/26/24 11:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		07/30/24 03:43	1
4-Bromofluorobenzene (Surr)	95		80 - 120		07/30/24 03:43	1
Dibromofluoromethane (Surr)	100		80 - 120		07/30/24 03:43	1
Toluene-d8 (Surr)	101		80 - 120		07/30/24 03:43	1

Client Sample ID: HD-COD-SW-29-0/1-0

Lab Sample ID: 410-181527-12

Date Collected: 07/25/24 08:56

Matrix: Water

Date Received: 07/26/24 11:10

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		0.50	0.070	ug/L			07/30/24 04:05	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 04:05	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			07/30/24 04:05	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 04:05	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			07/30/24 04:05	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 04:05	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			07/30/24 04:05	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			07/30/24 04:05	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			07/30/24 04:05	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			07/30/24 04:05	1
2-Hexanone	ND		5.0	2.0	ug/L			07/30/24 04:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			07/30/24 04:05	1
Acetone	1.9	J	5.0	1.5	ug/L			07/30/24 04:05	1
Benzene	ND		0.50	0.10	ug/L			07/30/24 04:05	1
Bromochloromethane	ND		0.50	0.080	ug/L			07/30/24 04:05	1
Bromodichloromethane	ND		0.50	0.080	ug/L			07/30/24 04:05	1
Bromoform	ND		1.0	0.30	ug/L			07/30/24 04:05	1
Bromomethane	ND		0.50	0.10	ug/L			07/30/24 04:05	1
Carbon disulfide	ND		1.0	0.10	ug/L			07/30/24 04:05	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			07/30/24 04:05	1
Chlorobenzene	ND		0.50	0.070	ug/L			07/30/24 04:05	1
Chloroethane	ND		0.50	0.10	ug/L			07/30/24 04:05	1
Chloroform	0.097	J	0.50	0.090	ug/L			07/30/24 04:05	1
Chloromethane	ND		0.50	0.10	ug/L			07/30/24 04:05	1
cis-1,2-Dichloroethene	0.16	J	0.50	0.080	ug/L			07/30/24 04:05	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/24 04:05	1
Dibromochloromethane	ND		0.50	0.080	ug/L			07/30/24 04:05	1
Ethylbenzene	ND		0.50	0.080	ug/L			07/30/24 04:05	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			07/30/24 04:05	1
Methylene Chloride	ND		0.50	0.20	ug/L			07/30/24 04:05	1
Styrene	ND		0.50	0.070	ug/L			07/30/24 04:05	1
Tetrachloroethene	0.57		0.50	0.20	ug/L			07/30/24 04:05	1
Toluene	ND		0.50	0.080	ug/L			07/30/24 04:05	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 04:05	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/24 04:05	1
Trichloroethene	0.20	J	0.50	0.080	ug/L			07/30/24 04:05	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/30/24 04:05	1
Xylenes, Total	ND		1.0	0.070	ug/L			07/30/24 04:05	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-29-0/1-0

Lab Sample ID: 410-181527-12

Date Collected: 07/25/24 08:56

Matrix: Water

Date Received: 07/26/24 11:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		07/30/24 04:05	1
4-Bromofluorobenzene (Surr)	94		80 - 120		07/30/24 04:05	1
Dibromofluoromethane (Surr)	100		80 - 120		07/30/24 04:05	1
Toluene-d8 (Surr)	100		80 - 120		07/30/24 04:05	1

Client Sample ID: HD-QC1-0/1-1

Lab Sample ID: 410-181527-13

Date Collected: 07/25/24 08:00

Matrix: Water

Date Received: 07/26/24 11:10

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		0.50	0.070	ug/L			07/30/24 05:12	1
1,1,1-Trichloroethane	12		0.50	0.080	ug/L			07/30/24 05:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			07/30/24 05:12	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			07/30/24 05:12	1
1,1-Dichloroethane	2.1		0.50	0.10	ug/L			07/30/24 05:12	1
1,1-Dichloroethene	1.0		0.50	0.10	ug/L			07/30/24 05:12	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			07/30/24 05:12	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			07/30/24 05:12	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			07/30/24 05:12	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			07/30/24 05:12	1
2-Hexanone	ND		5.0	2.0	ug/L			07/30/24 05:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			07/30/24 05:12	1
Acetone	ND		5.0	1.5	ug/L			07/30/24 05:12	1
Benzene	ND		0.50	0.10	ug/L			07/30/24 05:12	1
Bromochloromethane	ND		0.50	0.080	ug/L			07/30/24 05:12	1
Bromodichloromethane	ND		0.50	0.080	ug/L			07/30/24 05:12	1
Bromoform	ND		1.0	0.30	ug/L			07/30/24 05:12	1
Bromomethane	ND		0.50	0.10	ug/L			07/30/24 05:12	1
Carbon disulfide	ND		1.0	0.10	ug/L			07/30/24 05:12	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			07/30/24 05:12	1
Chlorobenzene	ND		0.50	0.070	ug/L			07/30/24 05:12	1
Chloroethane	ND		0.50	0.10	ug/L			07/30/24 05:12	1
Chloroform	0.18	J	0.50	0.090	ug/L			07/30/24 05:12	1
Chloromethane	ND		0.50	0.10	ug/L			07/30/24 05:12	1
cis-1,2-Dichloroethene	3.3		0.50	0.080	ug/L			07/30/24 05:12	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/24 05:12	1
Dibromochloromethane	ND		0.50	0.080	ug/L			07/30/24 05:12	1
Ethylbenzene	ND		0.50	0.080	ug/L			07/30/24 05:12	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			07/30/24 05:12	1
Methylene Chloride	ND		0.50	0.20	ug/L			07/30/24 05:12	1
Styrene	ND		0.50	0.070	ug/L			07/30/24 05:12	1
Toluene	ND		0.50	0.080	ug/L			07/30/24 05:12	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			07/30/24 05:12	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/24 05:12	1
Trichloroethene	6.5		0.50	0.080	ug/L			07/30/24 05:12	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/30/24 05:12	1
Xylenes, Total	ND		1.0	0.070	ug/L			07/30/24 05:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		07/30/24 05:12	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-QC1-0/1-1

Lab Sample ID: 410-181527-13

Date Collected: 07/25/24 08:00

Matrix: Water

Date Received: 07/26/24 11:10

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		07/30/24 05:12	1
Dibromofluoromethane (Surr)	103		80 - 120		07/30/24 05:12	1
Toluene-d8 (Surr)	96		80 - 120		07/30/24 05:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	140		5.0	2.0	ug/L			07/30/24 05:35	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		07/30/24 05:35	10
4-Bromofluorobenzene (Surr)	92		80 - 120		07/30/24 05:35	10
Dibromofluoromethane (Surr)	101		80 - 120		07/30/24 05:35	10
Toluene-d8 (Surr)	97		80 - 120		07/30/24 05:35	10

Client Sample ID: HD-QC1-0/1-2

Lab Sample ID: 410-181527-14

Date Collected: 07/25/24 00:00

Matrix: Water

Date Received: 07/26/24 11:10

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		0.50	0.070	ug/L			07/29/24 21:24	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			07/29/24 21:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			07/29/24 21:24	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			07/29/24 21:24	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			07/29/24 21:24	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			07/29/24 21:24	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			07/29/24 21:24	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			07/29/24 21:24	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			07/29/24 21:24	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			07/29/24 21:24	1
2-Hexanone	ND		5.0	2.0	ug/L			07/29/24 21:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			07/29/24 21:24	1
Acetone	ND		5.0	1.5	ug/L			07/29/24 21:24	1
Benzene	ND		0.50	0.10	ug/L			07/29/24 21:24	1
Bromochloromethane	ND		0.50	0.080	ug/L			07/29/24 21:24	1
Bromodichloromethane	ND		0.50	0.080	ug/L			07/29/24 21:24	1
Bromoform	ND		1.0	0.30	ug/L			07/29/24 21:24	1
Bromomethane	ND		0.50	0.10	ug/L			07/29/24 21:24	1
Carbon disulfide	ND		1.0	0.10	ug/L			07/29/24 21:24	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			07/29/24 21:24	1
Chlorobenzene	ND		0.50	0.070	ug/L			07/29/24 21:24	1
Chloroethane	ND		0.50	0.10	ug/L			07/29/24 21:24	1
Chloroform	ND		0.50	0.090	ug/L			07/29/24 21:24	1
Chloromethane	ND		0.50	0.10	ug/L			07/29/24 21:24	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			07/29/24 21:24	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/24 21:24	1
Dibromochloromethane	ND		0.50	0.080	ug/L			07/29/24 21:24	1
Ethylbenzene	ND		0.50	0.080	ug/L			07/29/24 21:24	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			07/29/24 21:24	1
Methylene Chloride	ND		0.50	0.20	ug/L			07/29/24 21:24	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-QC1-0/1-2

Lab Sample ID: 410-181527-14

Date Collected: 07/25/24 00:00

Matrix: Water

Date Received: 07/26/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.070	ug/L			07/29/24 21:24	1
Tetrachloroethene	ND		0.50	0.20	ug/L			07/29/24 21:24	1
Toluene	ND		0.50	0.080	ug/L			07/29/24 21:24	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			07/29/24 21:24	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/24 21:24	1
Trichloroethene	ND		0.50	0.080	ug/L			07/29/24 21:24	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/29/24 21:24	1
Xylenes, Total	ND		1.0	0.070	ug/L			07/29/24 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		07/29/24 21:24	1
4-Bromofluorobenzene (Surr)	96		80 - 120		07/29/24 21:24	1
Dibromofluoromethane (Surr)	98		80 - 120		07/29/24 21:24	1
Toluene-d8 (Surr)	101		80 - 120		07/29/24 21:24	1

Default Detection Limits

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

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

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	0.50	0.070	ug/L
1,1,1-Trichloroethane	0.50	0.080	ug/L
1,1,2,2-Tetrachloroethane	0.50	0.10	ug/L
1,1,2-Trichloroethane	0.50	0.080	ug/L
1,1-Dichloroethane	0.50	0.10	ug/L
1,1-Dichloroethene	0.50	0.10	ug/L
1,2-Dibromoethane (EDB)	0.50	0.080	ug/L
1,2-Dichloroethane	0.50	0.070	ug/L
1,2-Dichloropropane	0.50	0.10	ug/L
2-Butanone (MEK)	5.0	1.0	ug/L
2-Hexanone	5.0	2.0	ug/L
4-Methyl-2-pentanone (MIBK)	5.0	1.0	ug/L
Acetone	5.0	1.5	ug/L
Benzene	0.50	0.10	ug/L
Bromochloromethane	0.50	0.080	ug/L
Bromodichloromethane	0.50	0.080	ug/L
Bromoform	1.0	0.30	ug/L
Bromomethane	0.50	0.10	ug/L
Carbon disulfide	1.0	0.10	ug/L
Carbon tetrachloride	0.50	0.10	ug/L
Chlorobenzene	0.50	0.070	ug/L
Chloroethane	0.50	0.10	ug/L
Chloroform	0.50	0.090	ug/L
Chloromethane	0.50	0.10	ug/L
cis-1,2-Dichloroethene	0.50	0.080	ug/L
cis-1,3-Dichloropropene	0.50	0.10	ug/L
Dibromochloromethane	0.50	0.080	ug/L
Ethylbenzene	0.50	0.080	ug/L
Methyl tert-butyl ether	0.50	0.080	ug/L
Methylene Chloride	0.50	0.20	ug/L
Styrene	0.50	0.070	ug/L
Tetrachloroethene	0.50	0.20	ug/L
Toluene	0.50	0.080	ug/L
trans-1,2-Dichloroethene	0.50	0.10	ug/L
trans-1,3-Dichloropropene	0.50	0.080	ug/L
Trichloroethene	0.50	0.080	ug/L
Vinyl chloride	0.50	0.10	ug/L
Xylenes, Total	1.0	0.070	ug/L

Surrogate Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

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)
410-181527-1	HD-COD-SW-6-0/1-0	105	95	100	101
410-181527-2	HD-COD-SW-7-0/1-0	102	95	99	101
410-181527-3	HD-COD-SW-8-0/1-0	103	94	100	98
410-181527-4	HD-COD-SW-9-0/1-0	103	95	100	100
410-181527-5	HD-COD-SW-13-0/1-0	104	97	100	101
410-181527-6	HD-COD-SW-15-0/1-0	105	95	100	100
410-181527-6 MS	HD-COD-SW-15-0/1-0 MS	102	96	100	100
410-181527-6 MSD	HD-COD-SW-15-0/1-0 MSD	103	96	99	100
410-181527-7	HD-COD-SW-16-0/1-0	104	94	100	100
410-181527-8	HD-COD-SW-17-0/1-0	105	93	101	96
410-181527-8 - DL	HD-COD-SW-17-0/1-0	104	93	100	98
410-181527-9	HD-COD-SW-26-0/1-0	104	95	99	99
410-181527-10	HD-COD-SW-27-0/1-0	103	94	100	100
410-181527-11	HD-COD-SW-28-0/1-0	103	95	100	101
410-181527-12	HD-COD-SW-29-0/1-0	104	94	100	100
410-181527-13	HD-QC1-0/1-1	106	93	103	96
410-181527-13 - DL	HD-QC1-0/1-1	105	92	101	97
410-181527-14	HD-QC1-0/1-2	103	96	98	101
LCS 410-533656/4	Lab Control Sample	102	98	97	101
MB 410-533656/6	Method Blank	101	97	98	100

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: fYNOP Monthly Surface Water

Job ID: 410-181527-1

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

Lab Sample ID: MB 410-533656/6

Matrix: Water

Analysis Batch: 533656

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		0.50	0.070	ug/L			07/29/24 20:40	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			07/29/24 20:40	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			07/29/24 20:40	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			07/29/24 20:40	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			07/29/24 20:40	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			07/29/24 20:40	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			07/29/24 20:40	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			07/29/24 20:40	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			07/29/24 20:40	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			07/29/24 20:40	1
2-Hexanone	ND		5.0	2.0	ug/L			07/29/24 20:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			07/29/24 20:40	1
Acetone	ND		5.0	1.5	ug/L			07/29/24 20:40	1
Benzene	ND		0.50	0.10	ug/L			07/29/24 20:40	1
Bromochloromethane	ND		0.50	0.080	ug/L			07/29/24 20:40	1
Bromodichloromethane	ND		0.50	0.080	ug/L			07/29/24 20:40	1
Bromoform	ND		1.0	0.30	ug/L			07/29/24 20:40	1
Bromomethane	ND		0.50	0.10	ug/L			07/29/24 20:40	1
Carbon disulfide	ND		1.0	0.10	ug/L			07/29/24 20:40	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			07/29/24 20:40	1
Chlorobenzene	ND		0.50	0.070	ug/L			07/29/24 20:40	1
Chloroethane	ND		0.50	0.10	ug/L			07/29/24 20:40	1
Chloroform	ND		0.50	0.090	ug/L			07/29/24 20:40	1
Chloromethane	ND		0.50	0.10	ug/L			07/29/24 20:40	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			07/29/24 20:40	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/24 20:40	1
Dibromochloromethane	ND		0.50	0.080	ug/L			07/29/24 20:40	1
Ethylbenzene	ND		0.50	0.080	ug/L			07/29/24 20:40	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			07/29/24 20:40	1
Methylene Chloride	ND		0.50	0.20	ug/L			07/29/24 20:40	1
Styrene	ND		0.50	0.070	ug/L			07/29/24 20:40	1
Tetrachloroethene	ND		0.50	0.20	ug/L			07/29/24 20:40	1
Toluene	ND		0.50	0.080	ug/L			07/29/24 20:40	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			07/29/24 20:40	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/24 20:40	1
Trichloroethene	ND		0.50	0.080	ug/L			07/29/24 20:40	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/29/24 20:40	1
Xylenes, Total	ND		1.0	0.070	ug/L			07/29/24 20:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		07/29/24 20:40	1
4-Bromofluorobenzene (Surr)	97		80 - 120		07/29/24 20:40	1
Dibromofluoromethane (Surr)	98		80 - 120		07/29/24 20:40	1
Toluene-d8 (Surr)	100		80 - 120		07/29/24 20:40	1

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

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

Lab Sample ID: LCS 410-533656/4

Matrix: Water

Analysis Batch: 533656

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	5.00	4.76		ug/L		95	71 - 134
1,1,1-Trichloroethane	5.00	4.64		ug/L		93	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.14		ug/L		103	75 - 123
1,1,2-Trichloroethane	5.00	5.08		ug/L		102	80 - 120
1,1-Dichloroethane	5.00	4.90		ug/L		98	74 - 120
1,1-Dichloroethene	5.00	4.92		ug/L		98	80 - 131
1,2-Dibromoethane (EDB)	5.00	4.99		ug/L		100	80 - 120
1,2-Dichloroethane	5.00	4.72		ug/L		94	69 - 122
1,2-Dichloropropane	5.00	5.07		ug/L		101	80 - 120
2-Butanone (MEK)	62.5	72.6		ug/L		116	59 - 141
2-Hexanone	62.5	72.7		ug/L		116	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	71.3		ug/L		114	55 - 140
Acetone	62.5	64.8		ug/L		104	60 - 146
Benzene	5.00	4.94		ug/L		99	80 - 120
Bromochloromethane	5.00	4.95		ug/L		99	80 - 120
Bromodichloromethane	5.00	4.91		ug/L		98	73 - 124
Bromoform	5.00	4.87		ug/L		97	49 - 144
Bromomethane	5.00	3.91		ug/L		78	60 - 136
Carbon disulfide	5.00	4.78		ug/L		96	67 - 130
Carbon tetrachloride	5.00	4.43		ug/L		89	64 - 141
Chlorobenzene	5.00	4.80		ug/L		96	80 - 120
Chloroethane	5.00	3.86		ug/L		77	63 - 120
Chloroform	5.00	4.58		ug/L		92	80 - 120
Chloromethane	5.00	3.83		ug/L		77	56 - 124
cis-1,2-Dichloroethene	5.00	4.92		ug/L		98	80 - 122
cis-1,3-Dichloropropene	5.00	4.71		ug/L		94	67 - 121
Dibromochloromethane	5.00	4.98		ug/L		100	64 - 138
Ethylbenzene	5.00	4.90		ug/L		98	80 - 120
Methyl tert-butyl ether	5.00	4.80		ug/L		96	69 - 120
Methylene Chloride	5.00	4.81		ug/L		96	80 - 120
Styrene	5.00	4.96		ug/L		99	80 - 120
Tetrachloroethene	5.00	4.44		ug/L		89	80 - 120
Toluene	5.00	4.98		ug/L		100	80 - 120
trans-1,2-Dichloroethene	5.00	4.84		ug/L		97	80 - 122
trans-1,3-Dichloropropene	5.00	4.90		ug/L		98	61 - 129
Trichloroethene	5.00	4.69		ug/L		94	80 - 120
Vinyl chloride	5.00	3.61		ug/L		72	60 - 125
Xylenes, Total	15.0	14.4		ug/L		96	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120
Toluene-d8 (Surr)	101		80 - 120

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

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

Lab Sample ID: 410-181527-6 MS

Matrix: Water

Analysis Batch: 533656

Client Sample ID: HD-COD-SW-15-0/1-0 MS

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		5.00	5.35		ug/L		107	71 - 134
1,1,1-Trichloroethane	0.40	J	5.00	6.06		ug/L		113	78 - 126
1,1,2,2-Tetrachloroethane	ND		5.00	5.33		ug/L		107	75 - 123
1,1,2-Trichloroethane	ND		5.00	5.51		ug/L		110	80 - 120
1,1-Dichloroethane	0.13	J	5.00	5.82		ug/L		114	74 - 120
1,1-Dichloroethene	0.21	J	5.00	6.33		ug/L		122	80 - 131
1,2-Dibromoethane (EDB)	ND		5.00	5.38		ug/L		108	80 - 120
1,2-Dichloroethane	ND		5.00	5.39		ug/L		108	69 - 122
1,2-Dichloropropane	ND		5.00	5.62		ug/L		112	80 - 120
2-Butanone (MEK)	ND		62.6	69.3		ug/L		111	59 - 141
2-Hexanone	ND		62.6	73.1		ug/L		117	52 - 140
4-Methyl-2-pentanone (MIBK)	ND		62.6	72.1		ug/L		115	55 - 140
Acetone	ND		62.6	68.7		ug/L		110	60 - 146
Benzene	ND		5.00	5.77		ug/L		115	80 - 120
Bromochloromethane	ND		5.00	5.65		ug/L		113	80 - 120
Bromodichloromethane	ND		5.00	5.61		ug/L		112	73 - 124
Bromoform	ND		5.00	5.14		ug/L		103	49 - 144
Bromomethane	ND		5.00	5.33		ug/L		106	60 - 136
Carbon disulfide	ND		5.00	5.91		ug/L		118	67 - 130
Carbon tetrachloride	ND		5.00	5.66		ug/L		113	64 - 141
Chlorobenzene	ND		5.00	5.49		ug/L		110	80 - 120
Chloroethane	ND		5.00	5.16		ug/L		103	63 - 120
Chloroform	0.19	J	5.00	5.52		ug/L		107	80 - 120
Chloromethane	ND		5.00	5.37		ug/L		107	80 - 120
cis-1,2-Dichloroethene	1.5		5.00	7.21		ug/L		115	80 - 122
cis-1,3-Dichloropropene	ND		5.00	5.05		ug/L		101	67 - 121
Dibromochloromethane	ND		5.00	5.41		ug/L		108	64 - 138
Ethylbenzene	ND		5.00	5.65		ug/L		113	80 - 120
Methyl tert-butyl ether	ND		5.00	5.13		ug/L		102	69 - 120
Methylene Chloride	ND		5.00	5.42		ug/L		108	80 - 120
Styrene	ND		5.00	5.56		ug/L		111	80 - 120
Tetrachloroethene	6.2		5.00	11.5		ug/L		106	80 - 120
Toluene	ND		5.00	5.69		ug/L		114	80 - 120
trans-1,2-Dichloroethene	ND		5.00	5.80		ug/L		116	80 - 122
trans-1,3-Dichloropropene	ND		5.00	5.07		ug/L		101	61 - 129
Trichloroethene	1.4		5.00	6.92		ug/L		111	80 - 120
Vinyl chloride	ND		5.00	5.43		ug/L		109	60 - 125
Xylenes, Total	ND		15.0	16.7		ug/L		111	80 - 120
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	102		80 - 120						
4-Bromofluorobenzene (Surr)	96		80 - 120						
Dibromofluoromethane (Surr)	100		80 - 120						
Toluene-d8 (Surr)	100		80 - 120						

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

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

Lab Sample ID: 410-181527-6 MSD

Matrix: Water

Analysis Batch: 533656

Client Sample ID: HD-COD-SW-15-0/1-0 MSD

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		5.00	5.28		ug/L		106	71 - 134	1	30
1,1,1-Trichloroethane	0.40	J	5.00	6.01		ug/L		112	78 - 126	1	30
1,1,2,2-Tetrachloroethane	ND		5.00	5.31		ug/L		106	75 - 123	1	30
1,1,2-Trichloroethane	ND		5.00	5.43		ug/L		109	80 - 120	1	30
1,1-Dichloroethane	0.13	J	5.00	5.73		ug/L		112	74 - 120	2	30
1,1-Dichloroethene	0.21	J	5.00	6.30		ug/L		122	80 - 131	0	30
1,2-Dibromoethane (EDB)	ND		5.00	5.40		ug/L		108	80 - 120	0	30
1,2-Dichloroethane	ND		5.00	5.12		ug/L		102	69 - 122	5	30
1,2-Dichloropropane	ND		5.00	5.58		ug/L		112	80 - 120	1	30
2-Butanone (MEK)	ND		62.6	73.1		ug/L		117	59 - 141	5	30
2-Hexanone	ND		62.6	75.1		ug/L		120	52 - 140	3	30
4-Methyl-2-pentanone (MIBK)	ND		62.6	72.3		ug/L		115	55 - 140	0	30
Acetone	ND		62.6	68.0		ug/L		109	60 - 146	1	30
Benzene	ND		5.00	5.62		ug/L		112	80 - 120	3	30
Bromochloromethane	ND		5.00	5.44		ug/L		109	80 - 120	4	30
Bromodichloromethane	ND		5.00	5.45		ug/L		109	73 - 124	3	30
Bromoform	ND		5.00	5.10		ug/L		102	49 - 144	1	30
Bromomethane	ND		5.00	4.74		ug/L		95	60 - 136	12	30
Carbon disulfide	ND		5.00	5.79		ug/L		116	67 - 130	2	30
Carbon tetrachloride	ND		5.00	5.60		ug/L		112	64 - 141	1	30
Chlorobenzene	ND		5.00	5.47		ug/L		109	80 - 120	0	30
Chloroethane	ND		5.00	5.18		ug/L		104	63 - 120	0	30
Chloroform	0.19	J	5.00	5.41		ug/L		104	80 - 120	2	30
Chloromethane	ND		5.00	5.17		ug/L		103	80 - 120	4	30
cis-1,2-Dichloroethene	1.5		5.00	7.09		ug/L		113	80 - 122	2	30
cis-1,3-Dichloropropene	ND		5.00	5.04		ug/L		101	67 - 121	0	30
Dibromochloromethane	ND		5.00	5.38		ug/L		107	64 - 138	1	30
Ethylbenzene	ND		5.00	5.66		ug/L		113	80 - 120	0	30
Methyl tert-butyl ether	ND		5.00	5.02		ug/L		100	69 - 120	2	30
Methylene Chloride	ND		5.00	5.38		ug/L		108	80 - 120	1	30
Styrene	ND		5.00	5.49		ug/L		110	80 - 120	1	30
Tetrachloroethene	6.2		5.00	11.5		ug/L		106	80 - 120	0	30
Toluene	ND		5.00	5.65		ug/L		113	80 - 120	1	30
trans-1,2-Dichloroethene	ND		5.00	5.71		ug/L		114	80 - 122	2	30
trans-1,3-Dichloropropene	ND		5.00	5.15		ug/L		103	61 - 129	2	30
Trichloroethene	1.4		5.00	6.91		ug/L		111	80 - 120	0	30
Vinyl chloride	ND		5.00	5.45		ug/L		109	60 - 125	0	30
Xylenes, Total	ND		15.0	16.5		ug/L		110	80 - 120	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	100		80 - 120

QC Association Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

GC/MS VOA

Analysis Batch: 533656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-181527-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-181527-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-181527-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
410-181527-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-181527-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-181527-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-181527-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
410-181527-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-181527-8 - DL	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-181527-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-181527-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
410-181527-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-181527-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-181527-13	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-181527-13 - DL	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-181527-14	HD-QC1-0/1-2	Total/NA	Water	8260D	
MB 410-533656/6	Method Blank	Total/NA	Water	8260D	
LCS 410-533656/4	Lab Control Sample	Total/NA	Water	8260D	
410-181527-6 MS	HD-COD-SW-15-0/1-0 MS	Total/NA	Water	8260D	
410-181527-6 MSD	HD-COD-SW-15-0/1-0 MSD	Total/NA	Water	8260D	

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-6-0/1-0

Lab Sample ID: 410-181527-1

Date Collected: 07/25/24 10:30

Matrix: Water

Date Received: 07/26/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	533656	JS6E	ELLE	07/29/24 23:38

Client Sample ID: HD-COD-SW-7-0/1-0

Lab Sample ID: 410-181527-2

Date Collected: 07/25/24 11:15

Matrix: Water

Date Received: 07/26/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	533656	JS6E	ELLE	07/30/24 00:00

Client Sample ID: HD-COD-SW-8-0/1-0

Lab Sample ID: 410-181527-3

Date Collected: 07/25/24 09:10

Matrix: Water

Date Received: 07/26/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	533656	JS6E	ELLE	07/30/24 00:22

Client Sample ID: HD-COD-SW-9-0/1-0

Lab Sample ID: 410-181527-4

Date Collected: 07/25/24 12:50

Matrix: Water

Date Received: 07/26/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	533656	JS6E	ELLE	07/30/24 00:45

Client Sample ID: HD-COD-SW-13-0/1-0

Lab Sample ID: 410-181527-5

Date Collected: 07/25/24 09:30

Matrix: Water

Date Received: 07/26/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	533656	JS6E	ELLE	07/30/24 01:07

Client Sample ID: HD-COD-SW-15-0/1-0

Lab Sample ID: 410-181527-6

Date Collected: 07/25/24 11:40

Matrix: Water

Date Received: 07/26/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	533656	JS6E	ELLE	07/30/24 01:29

Client Sample ID: HD-COD-SW-16-0/1-0

Lab Sample ID: 410-181527-7

Date Collected: 07/25/24 09:50

Matrix: Water

Date Received: 07/26/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	533656	JS6E	ELLE	07/30/24 02:36

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Client Sample ID: HD-COD-SW-17-0/1-0

Lab Sample ID: 410-181527-8

Date Collected: 07/25/24 10:05

Matrix: Water

Date Received: 07/26/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	533656	JS6E	ELLE	07/30/24 04:28
Total/NA	Analysis	8260D	DL	10	533656	JS6E	ELLE	07/30/24 04:50

Client Sample ID: HD-COD-SW-26-0/1-0

Lab Sample ID: 410-181527-9

Date Collected: 07/25/24 10:55

Matrix: Water

Date Received: 07/26/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	533656	JS6E	ELLE	07/30/24 02:58

Client Sample ID: HD-COD-SW-27-0/1-0

Lab Sample ID: 410-181527-10

Date Collected: 07/25/24 11:30

Matrix: Water

Date Received: 07/26/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	533656	JS6E	ELLE	07/30/24 03:21

Client Sample ID: HD-COD-SW-28-0/1-0

Lab Sample ID: 410-181527-11

Date Collected: 07/25/24 13:15

Matrix: Water

Date Received: 07/26/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	533656	JS6E	ELLE	07/30/24 03:43

Client Sample ID: HD-COD-SW-29-0/1-0

Lab Sample ID: 410-181527-12

Date Collected: 07/25/24 08:56

Matrix: Water

Date Received: 07/26/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	533656	JS6E	ELLE	07/30/24 04:05

Client Sample ID: HD-QC1-0/1-1

Lab Sample ID: 410-181527-13

Date Collected: 07/25/24 08:00

Matrix: Water

Date Received: 07/26/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	533656	JS6E	ELLE	07/30/24 05:12
Total/NA	Analysis	8260D	DL	10	533656	JS6E	ELLE	07/30/24 05:35

Client Sample ID: HD-QC1-0/1-2

Lab Sample ID: 410-181527-14

Date Collected: 07/25/24 00:00

Matrix: Water

Date Received: 07/26/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	533656	JS6E	ELLE	07/29/24 21:24

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

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: fYNOP Monthly Surface Water

Job ID: 410-181527-1

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	02-07-25

Method Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

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

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-181527-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-181527-1	HD-COD-SW-6-0/1-0	Water	07/25/24 10:30	07/26/24 11:10
410-181527-2	HD-COD-SW-7-0/1-0	Water	07/25/24 11:15	07/26/24 11:10
410-181527-3	HD-COD-SW-8-0/1-0	Water	07/25/24 09:10	07/26/24 11:10
410-181527-4	HD-COD-SW-9-0/1-0	Water	07/25/24 12:50	07/26/24 11:10
410-181527-5	HD-COD-SW-13-0/1-0	Water	07/25/24 09:30	07/26/24 11:10
410-181527-6	HD-COD-SW-15-0/1-0	Water	07/25/24 11:40	07/26/24 11:10
410-181527-7	HD-COD-SW-16-0/1-0	Water	07/25/24 09:50	07/26/24 11:10
410-181527-8	HD-COD-SW-17-0/1-0	Water	07/25/24 10:05	07/26/24 11:10
410-181527-9	HD-COD-SW-26-0/1-0	Water	07/25/24 10:55	07/26/24 11:10
410-181527-10	HD-COD-SW-27-0/1-0	Water	07/25/24 11:30	07/26/24 11:10
410-181527-11	HD-COD-SW-28-0/1-0	Water	07/25/24 13:15	07/26/24 11:10
410-181527-12	HD-COD-SW-29-0/1-0	Water	07/25/24 08:56	07/26/24 11:10
410-181527-13	HD-QC1-0/1-1	Water	07/25/24 08:00	07/26/24 11:10
410-181527-14	HD-QC1-0/1-2	Water	07/25/24 00:00	07/26/24 11:10

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Instrument ID: 10193

Analysis Batch Number: 517601

Lab Sample ID: IC 410-517601/3

Client Sample ID:

Date Analyzed: 06/14/24 18:42

Lab File ID: CU14X02.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.58	Baseline	UKEK	06/17/24 19:11
Chlorobenzene-d5 (IS)	10.90	Incomplete Integration	UCB5	06/16/24 13:07
1,4-Dichlorobenzene-d4	12.85	Incomplete Integration	UCB5	06/16/24 13:08

Lab Sample ID: IC 410-517601/4

Client Sample ID:

Date Analyzed: 06/14/24 19:05

Lab File ID: CU14X03.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.57	Baseline	UKEK	06/17/24 19:10
Chlorobenzene-d5 (IS)	10.90	Incomplete Integration	UCB5	06/16/24 13:09
1,4-Dichlorobenzene-d4	12.85	Incomplete Integration	UCB5	06/16/24 13:09

Lab Sample ID: IC 410-517601/5

Client Sample ID:

Date Analyzed: 06/14/24 19:27

Lab File ID: CU14X04.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorobenzene-d5 (IS)	10.90	Incomplete Integration	UCB5	06/16/24 13:10
1,4-Dichlorobenzene-d4	12.85	Incomplete Integration	UCB5	06/16/24 13:11

Lab Sample ID: IC 410-517601/6

Client Sample ID:

Date Analyzed: 06/14/24 19:50

Lab File ID: CU14X05.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorobenzene-d5 (IS)	10.90	Incomplete Integration	UCB5	06/16/24 13:12
1,4-Dichlorobenzene-d4	12.85	Incomplete Integration	UCB5	06/16/24 13:12

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Instrument ID: 10193

Analysis Batch Number: 517601

Lab Sample ID: IC 410-517601/7

Client Sample ID:

Date Analyzed: 06/14/24 20:13

Lab File ID: CU14X06.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dichlorobenzene-d4	12.85	Incomplete Integration	UCB5	06/16/24 13:13

Lab Sample ID: IC 410-517601/8

Client Sample ID:

Date Analyzed: 06/14/24 20:35

Lab File ID: CU14X07.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorobenzene-d5 (IS)	10.90	Incomplete Integration	UCB5	06/16/24 13:14
1,4-Dichlorobenzene-d4	12.85	Incomplete Integration	UCB5	06/16/24 13:14

Lab Sample ID: IC 410-517601/9

Client Sample ID:

Date Analyzed: 06/14/24 20:58

Lab File ID: CU14X08.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dichlorobenzene-d4	12.85	Incomplete Integration	UCB5	06/16/24 13:15

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Instrument ID: 10193

Analysis Batch Number: 517601

Lab Sample ID: IC 410-517601/13

Client Sample ID:

Date Analyzed: 06/14/24 22:28

Lab File ID: CU14X12.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.98	Incomplete Integration	UCB5	06/16/24 13:17
1,3-Butadiene	2.08	Incomplete Integration	UCB5	06/16/24 13:18
Dichlorofluoromethane	2.69	Incomplete Integration	UCB5	06/16/24 13:18
Trichlorofluoromethane	2.74	Incomplete Integration	UCB5	06/16/24 13:18
Freon 123a	3.01	Incomplete Integration	UCB5	06/16/24 13:18
Acetone	3.22	Incomplete Integration	UCB5	06/16/24 13:19
Carbon disulfide	3.45	Incomplete Integration	UCB5	06/16/24 13:19
Methylene Chloride	3.77	Incomplete Integration	UCB5	06/16/24 13:19
Ethyl t-butyl ether	5.40	Incomplete Integration	UCB5	06/16/24 13:19
Bromochloromethane	5.99	Incomplete Integration	UCB5	06/16/24 13:20
1,2-Dichloroethane-d4 (Surr)	6.81	Incomplete Integration	UCB5	06/16/24 13:20
1,4-Dioxane	8.18	Incomplete Integration	UCB5	06/16/24 13:21
Chlorobenzene-d5 (IS)	10.90	Incomplete Integration	UCB5	06/16/24 13:22
1,4-Dichlorobenzene-d4	12.85	Incomplete Integration	UCB5	06/16/24 13:22

Lab Sample ID: IC 410-517601/14

Client Sample ID:

Date Analyzed: 06/14/24 22:51

Lab File ID: CU14X13.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.08	Incomplete Integration	UCB5	06/16/24 13:24
Carbon disulfide	3.46	Incomplete Integration	UCB5	06/16/24 13:25
Methyl acetate	3.59	Incomplete Integration	UCB5	06/16/24 13:25
1,1-Dichloropropene	6.57	Incomplete Integration	UCB5	06/16/24 13:27
1,4-Dioxane	8.19	Incomplete Integration	UCB5	06/16/24 13:27

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Instrument ID: 10193

Analysis Batch Number: 517601

Lab Sample ID: IC 410-517601/15

Client Sample ID:

Date Analyzed: 06/14/24 23:14

Lab File ID: CU14X14.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.74	Incomplete Integration	UCB5	06/16/24 13:29
Carbon disulfide	3.46	Incomplete Integration	UCB5	06/16/24 13:29
1,4-Dioxane	8.21	Incomplete Integration	UCB5	06/16/24 13:31
Toluene	9.44	Incomplete Integration	UCB5	06/16/24 13:32
1,4-Dichlorobenzene-d4	12.85	Incomplete Integration	UCB5	06/16/24 13:33

Lab Sample ID: IC 410-517601/16

Client Sample ID:

Date Analyzed: 06/14/24 23:36

Lab File ID: CU14X15.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.40	Incomplete Integration	UCB5	06/16/24 13:34
Trichlorofluoromethane	2.74	Incomplete Integration	UCB5	06/16/24 13:35
Carbon disulfide	3.46	Incomplete Integration	UCB5	06/16/24 13:36
1,4-Dioxane	8.20	Incomplete Integration	UCB5	06/16/24 13:38

Lab Sample ID: IC 410-517601/17

Client Sample ID:

Date Analyzed: 06/14/24 23:59

Lab File ID: CU14X16.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.20	Baseline	UKEK	06/17/24 19:19
Methyl methacrylate	8.20	Incomplete Integration	UCB5	06/16/24 13:43

Lab Sample ID: ICIS 410-517601/18

Client Sample ID:

Date Analyzed: 06/15/24 00:22

Lab File ID: CU14X17.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.19	Incomplete Integration	DVW2	06/16/24 08:15

8260D

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Instrument ID: 10193

Analysis Batch Number: 517601

Lab Sample ID: IC 410-517601/19

Client Sample ID:

Date Analyzed: 06/15/24 00:45

Lab File ID: CU14X18.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.09	Incomplete Integration	UCB5	06/16/24 13:49
Methyl acetate	3.59	Incomplete Integration	UCB5	06/16/24 13:50
t-Butyl alcohol-d10 (IS)	3.80	Baseline	UKEK	06/17/24 19:14
n-Butanol	7.68	Incomplete Integration	UCB5	06/16/24 13:51
1,4-Dioxane	8.20	Missed Peak	UCB5	06/16/24 13:52

Lab Sample ID: ICV 410-517601/21

Client Sample ID:

Date Analyzed: 06/15/24 01:30

Lab File ID: CU14X20.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein	3.07	Incomplete Integration	UCB5	06/16/24 14:10
1,4-Dioxane	8.19	Baseline	UKEK	06/17/24 19:20

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Instrument ID: 10193

Analysis Batch Number: 533656

Lab Sample ID: CCVIS 410-533656/3

Client Sample ID:

Date Analyzed: 07/29/24 19:33

Lab File ID: CL29X02.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.12	Incomplete Integration	JS6E	07/29/24 20:03
Carbon disulfide	3.45	Incomplete Integration	JS6E	07/29/24 20:04
1,4-Dioxane	8.19	Split Peak	JS6E	07/29/24 20:05

Lab Sample ID: LCS 410-533656/4

Client Sample ID:

Date Analyzed: 07/29/24 19:55

Lab File ID: CL29X03.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.44	Incomplete Integration	JS6E	07/29/24 20:19

Lab Sample ID: MB 410-533656/6

Client Sample ID:

Date Analyzed: 07/29/24 20:40

Lab File ID: CL29X05.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzene		Invalid Compound ID	JS6E	07/29/24 21:09

Lab Sample ID: 410-181527-5

Client Sample ID: HD-COD-SW-13-0/1-0

Date Analyzed: 07/30/24 01:07

Lab File ID: CL29X17.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1-Trichloroethane	6.37	Incomplete Integration	N9NA	07/30/24 14:36

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Instrument ID: 10193

Analysis Batch Number: 533656

Lab Sample ID: 410-181527-6 MS

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS

Date Analyzed: 07/30/24 01:52

Lab File ID: CL29X19.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.45	Incomplete Integration	N9NA	07/30/24 14:40

Lab Sample ID: 410-181527-6 MSD

Client Sample ID: HD-COD-SW-15-0/1-0 MSD MSD

Date Analyzed: 07/30/24 02:14

Lab File ID: CL29X20.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.45	Incomplete Integration	N9NA	07/30/24 14:41

Lab Sample ID: 410-181527-9

Client Sample ID: HD-COD-SW-26-0/1-0

Date Analyzed: 07/30/24 02:58

Lab File ID: CL29X22.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	5.64	Incomplete Integration	N9NA	07/30/24 14:44

Lab Sample ID: 410-181527-11

Client Sample ID: HD-COD-SW-28-0/1-0

Date Analyzed: 07/30/24 03:43

Lab File ID: CL29X24.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	6.14	Incomplete Integration	N9NA	07/30/24 15:36
2-Butanone (MEK)		Invalid Compound ID	N9NA	07/30/24 15:36

Lab Sample ID: 410-181527-12

Client Sample ID: HD-COD-SW-29-0/1-0

Date Analyzed: 07/30/24 04:05

Lab File ID: CL29X25.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1-Trichloroethane		Invalid Compound ID	N9NA	07/30/24 15:37

8260D

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Instrument ID: 10193

Analysis Batch Number: 533656

Lab Sample ID: 410-181527-8

Client Sample ID: HD-COD-SW-17-0/1-0

Date Analyzed: 07/30/24 04:28

Lab File ID: CL29X26.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl tert-butyl ether	4.13	Incomplete Integration	DVW2	07/30/24 09:41
Benzene		Incomplete Integration	DVW2	07/30/24 09:41

Lab Sample ID: 410-181527-13

Client Sample ID: HD-QC1-0/1-1

Date Analyzed: 07/30/24 05:12

Lab File ID: CL29X28.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorobenzene		Incomplete Integration	DVW2	07/30/24 09:43

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_CCV_CYC_00008	07/15/24	01/15/24	50/50 MeOH/Water, Lot EH471	200 mL	MSV_VCYC_STK_00011	8.605 mL	Cyclohexanone	6249.81 ug/mL
.MSV_VCYC_STK_00011	07/15/24	01/15/24	50/50 MeOH/Water, Lot EH471	10 mL	MSV_CYC_00009	1.4526 g	Cyclohexanone	145260 ug/mL
..MSV_CYC_00009	06/30/27		Chem Service, Lot 14568900		(Purchased Reagent)		Cyclohexanone	1 g/g
MSV_CCV_V5ACE_00037	07/10/24	06/10/24	Methanol, Lot EH822	10 mL	MSV_AcetatesV_00067	1 mL	Acetonitrile	5000 ug/mL
							Ethyl acetate	1000 ug/mL
							Vinyl acetate	1000 ug/mL
.MSV_AcetatesV_00067	07/10/24		Restek, Lot A0197847		(Purchased Reagent)		Acetonitrile	50000 ug/mL
							Ethyl acetate	10000 ug/mL
							Vinyl acetate	10000 ug/mL
MSV_DME_00055	06/15/24		Restek, Lot A0190883		(Purchased Reagent)		Dimethyl ether	1000 ug/mL
MSV_HP25_ISO_00010	12/11/24	06/14/24	Methanol, Lot EH822	10 mL	MSV_Cus826_IS_00775	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_00775	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_HP25_ISSS_00090	12/11/24	06/11/24	Methanol, Lot EH822	10 mL	MSV_8260_SS_01217	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_00775	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_01217	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_00775	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_HP25_ISSS_00093	01/29/25	07/29/24	Methanol, Lot EH822	10 mL	MSV_Cus826_IS_00812	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_00812	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_HP25_ISSS_00093	01/29/25	07/29/24	Methanol, Lot EH822	10 mL	MSV_8260_SS_01255	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.MSV_8260_SS_01255	03/30/29	Restek, Lot A0209669			(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_LCS_VOC#1_00171	07/09/24	06/09/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00200	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_00207	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00188	1 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_00200	06/30/26	Restek, Lot A0198667			(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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
.MSV_M_MIX2SEC_00207	04/30/26		Restek, Lot A0197573		(Purchased Reagent)		Trichloroethene	1000 ug/mL
.MSV_Q_Ketones_00188	02/28/26		Restek, Lot A0194631		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
MSV_LCS_VOC#1_00178	08/27/24	07/28/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00213	1 mL	4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration							
					Reagent ID	Volume Added									
							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							
					MSV_M_MIX2SEC_00217	1 mL	Trichloroethene	40 ug/mL							
							Carbon disulfide	40 ug/mL							
					MSV_Q_Ketones_00218	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_00213	06/30/26	Restek, Lot A0198667			(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_00217	04/30/26	Restek, Lot A0197573			(Purchased Reagent)		Carbon disulfide	1000 ug/mL
														Methyl tert-butyl ether	1000 ug/mL
							.MSV_Q_Ketones_00218	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	12500 ug/mL
MSV_LL_#1_826_00133	06/17/24	06/10/24	Methanol, Lot EH822	1 mL	MSV_CCV_VOC#1_00187	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							2-Nitropropane	250 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	125 ug/mL
							Benzyl chloride	50 ug/mL
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl acetate	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							n-Butanol	4375 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
							Tetrahydrofuran	250 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_CCV_VOC#3_00183	200 uL	Acrolein	2505.5 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_V_VOA2_00241	150 uL	1,4-Dioxane	2500 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							Isobutyl alcohol	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_CCV_VOC#1_00187	07/09/24	06/09/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00178	1 mL	Methacrylonitrile	500 ug/mL
							n-Butanol	4375 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00184	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
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-Methyl-2-propanol	5000 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 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
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_00178	07/09/24	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00184	07/09/24		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
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-Methyl-2-propanol	25000 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 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
							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_00183	06/17/24	06/09/24	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00017	0.5 mL	Acrolein	12527.5 ug/mL
					MSV_V_Ketones_00167	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_00017	06/17/24	04/18/24	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00039	9.125 mL	Acrolein	125275 ug/mL
...MSV_VACR_STK_00039	06/17/24	04/18/24	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00033	1.4778 g	Acrolein	137288 ug/mL
...MSV_ACROLEIN_00033	01/31/25		Chem Service, Lot 15004000		(Purchased Reagent)		Acrolein	0.929 g/g
..MSV_V_Ketones_00167	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_V_VOA2_00241	07/02/24	06/02/24	Methanol, Lot EH471	5 mL	MSV_V#2B_00378	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isobutyl alcohol	12500 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	25000 ug/mL
							Propionitrile	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_V#2B_00378	05/31/25	Restek, Lot A0197599			(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#1_826_00138	08/10/24	07/21/24	Methanol, Lot EH822	1 mL	MSV_CCV_VOC#1_00193	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Carbon disulfide	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
					MSV_CCV_VOC#3_00189	200 uL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_CCV_VOC#1_00193	08/20/24	07/21/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00194	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00189	1 mL	Carbon disulfide	1000 ug/mL
					..MSV_MegaMIX#1_00194	05/31/27	Restek, Lot A0211483	
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							
1,2-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							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00189	04/30/26		Restek, Lot A0197578		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
.MSV_CCV_VOC#3_00189	08/10/24	07/21/24	Methanol, Lot EH471	5 mL	MSV_V_Ketones_00173	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_V_Ketones_00173	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_LL_#2_826_00140	06/18/24	06/02/24	Methanol, Lot EH822	1 mL	CCV_ETBR_00007	50 uL	Ethyl bromide	50.085 ug/mL
					MSV_BCE_00067	25 uL	1-Bromo-2-chloroethane	50 ug/mL
					MSV_CCV_EE_00007	50 uL	Ethyl ether	49.9948 ug/mL
					MSV_V_PentaCL_00048	10 uL	Pentachloroethane	50 ug/mL
.CCV_ETBR_00007	11/08/24	05/08/24	Methanol, Lot EH471	10 mL	MSV_VETBR_STK_00016	0.212 mL	Ethyl bromide	1001.7 ug/mL
..MSV_VETBR_STK_00016	11/08/24	05/08/24	Methanol, Lot EH471	10 mL	MSV_EtBr_00009	0.4725 g	Ethyl bromide	47250 ug/mL
...MSV_EtBr_00009	06/30/25		Chem Service, Lot 13345600		(Purchased Reagent)		Ethyl bromide	1 g/g
.MSV_BCE_00067	06/18/24		Restek, Lot A0201612		(Purchased Reagent)		1-Bromo-2-chloroethane	2000 ug/mL
.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_V_PentaCL_00048	06/27/24		Restek, Lot A0184174		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_GAS826_00214	06/17/24	06/10/24	Methanol, Lot EH822	1 mL	MSV_CCV_GASES_00796	25 uL	1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL
							Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00796	06/17/24		Restek, Lot A0198362		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LL_GAS826_00222	07/29/24	07/22/24	Methanol, Lot EH822	1 mL	MSV_CCV_GASES_00843	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00843	07/29/24		Restek, Lot A0212054		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00201	06/16/24	06/10/24	Methanol, Lot EH822	1 mL	MSV_QC_2K_GAS_00160	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00160	06/16/24		Restek, Lot A0184924		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00209	08/04/24	07/29/24	Methanol, Lot EH822	1 mL	MSV_QC_2K_GAS_00228	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00228	08/04/24		Restek, Lot A0184924		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_V_BFB_00017							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00012	0.09 mL	BFB	501120 ug/mL
.MSV_VBFB_STK_00012	12/02/24	06/02/24	Methanol, Lot EH471	10 mL	MSV_4BFB_NEAT_00011	13920 g	BFB	1392000000 ug/mL
..MSV_4BFB_NEAT_00011	05/31/25		Chem Service, Lot 15267000		(Purchased Reagent)		BFB	1 g/g
MSV_V_SMRV4_00071	06/18/24	05/20/24	Methanol, Lot EH822	1 mL	MSV_CCV_2CEVE_00176	200 uL	2-Chloroethyl vinyl ether	200 ug/mL
					MSV_CCV_LKB_00009	400 uL	cis-1,4-Dichloro-2-butene	400.14 ug/mL
					MSV_V_SMFreon_00039	100 uL	Chlorodifluoromethane	200 ug/mL
.MSV_CCV_2CEVE_00176	06/18/24	05/19/24	Methanol, Lot EH471	5 mL	MSV_V_2CLEVE_00184	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00184	04/30/26		Restek, Lot A0197472		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_CCV_LKB_00009	06/19/24	12/21/23	Methanol, Lot EG095	50 mL	MSV_Vc14d_STK_00010	0.81 mL	cis-1,4-Dichloro-2-butene	1000.35 ug/mL
..MSV_Vc14d_STK_00010	06/19/24	12/19/23	Methanol, Lot EG095	10 mL	MSV_c14dcb_Nt_00004	0.65 g	cis-1,4-Dichloro-2-butene	61750 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...MSV c14dcb Nt_00004	08/16/27		Aldrich, Lot SHBH4584V		(Purchased Reagent)		cis-1,4-Dichloro-2-butene	0.95 g/g
.MSV V SMFreon_00039	06/19/24		Restek, Lot A0184508		(Purchased Reagent)		Chlorodifluoromethane	2000 ug/mL

Reagent

MSV_AcetatesV_00067



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.)

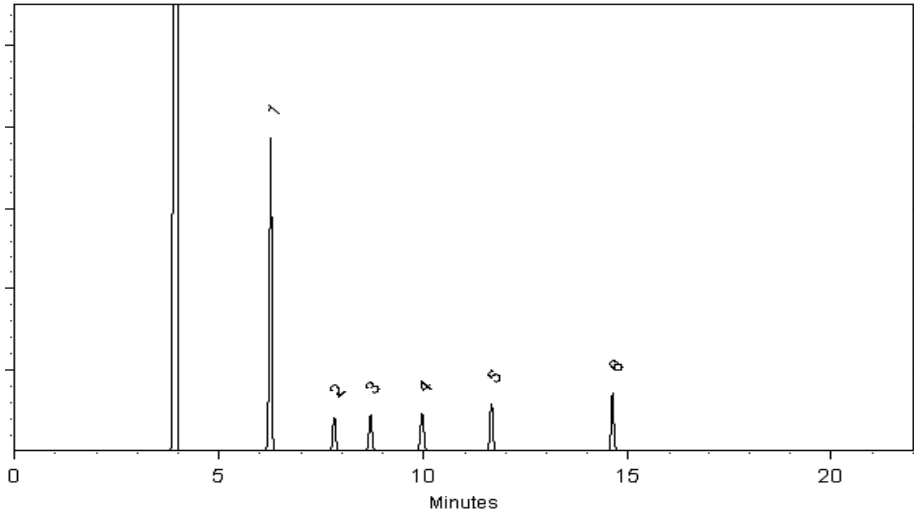
Inj. Temp:
200°C

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
Brittany Federinko - Operations Tech I

Date Mixed: 09-May-2023 Balance Serial # B251644995

Jennifer J. Pollino
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_BCE_00067



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. : 30469 **Lot No.:** A0201612
Description : 1-Bromo-2-chloroethane Standard
1-Bromo-2-Chloroethane Std, 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 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	1-Bromo-2-chloroethane	107-04-0	BCCC1146	99%	2,004.0 µg/mL	+/- 112.6024

* 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:

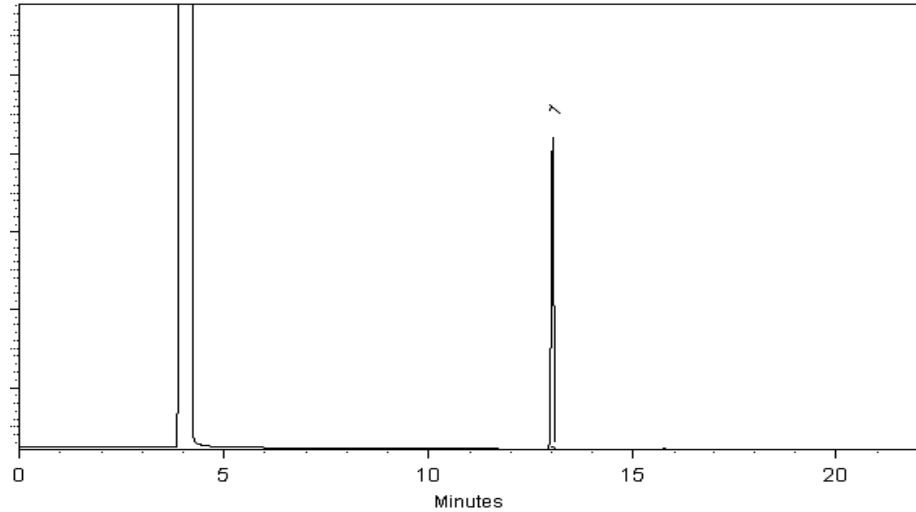
FID

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.

Morgan Craighead - Mix Technician

Date Mixed: 31-Aug-2023

Balance Serial # 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Sep-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

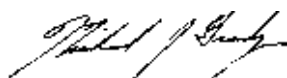
Product Name:

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_00796



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. : 577488.SEC **Lot No.:** A0198362

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, 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	Dichlorodifluoromethane (CFC-12)	75-71-8.SEC	28302	99%	2,022.9 µg/mL	+/- 114.4940
2	Chloromethane (methyl chloride)	74-87-3.SEC	00016950	99%	2,009.4 µg/mL	+/- 115.4190
3	Vinyl chloride	75-01-4.SEC	MKBK6872V	99%	2,006.2 µg/mL	+/- 119.0209
4	1,3-Butadiene	106-99-0.SEC	26996	99%	2,017.4 µg/mL	+/- 116.8330
5	Bromomethane (methyl bromide)	74-83-9.SEC	00017022	99%	1,969.1 µg/mL	+/- 113.1320
6	Chloroethane (ethyl chloride)	75-00-3.SEC	00004202	98%	2,016.5 µg/mL	+/- 118.1750
7	Dichlorofluoromethane (CFC-21)	75-43-4 *	14150400	90%	2,004.0 µg/mL	+/- 112.5874
8	Trichlorofluoromethane (CFC-11)	75-69-4.SEC	00010739	99%	2,006.7 µg/mL	+/- 112.7372
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	354-23-4 *	Q9B-64	99%	2,007.1 µg/mL	+/- 117.6271

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

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.

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:

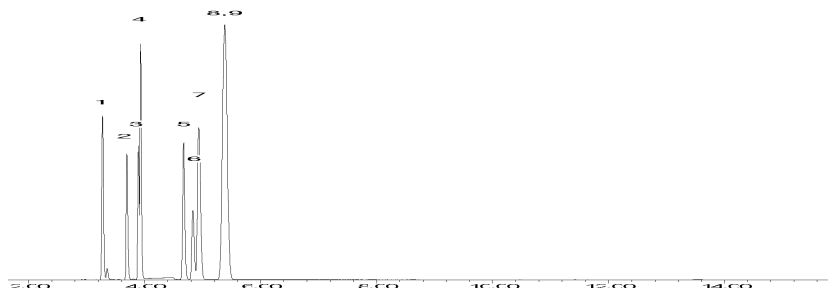
MSD

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.


Matt Fragassi - Mix Technician

Date Mixed: 23-May-2023

Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-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_Cus826_IS_00775



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:

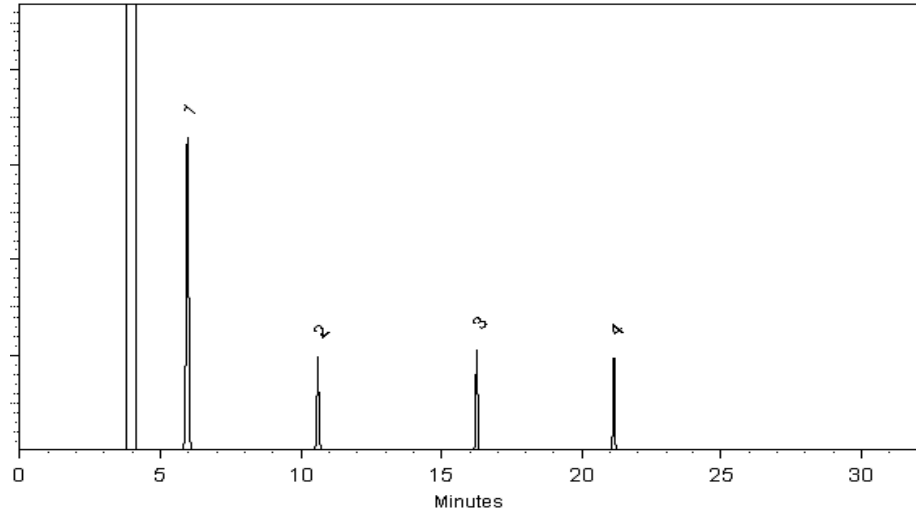
FID

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_Cus826_IS_00812



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:

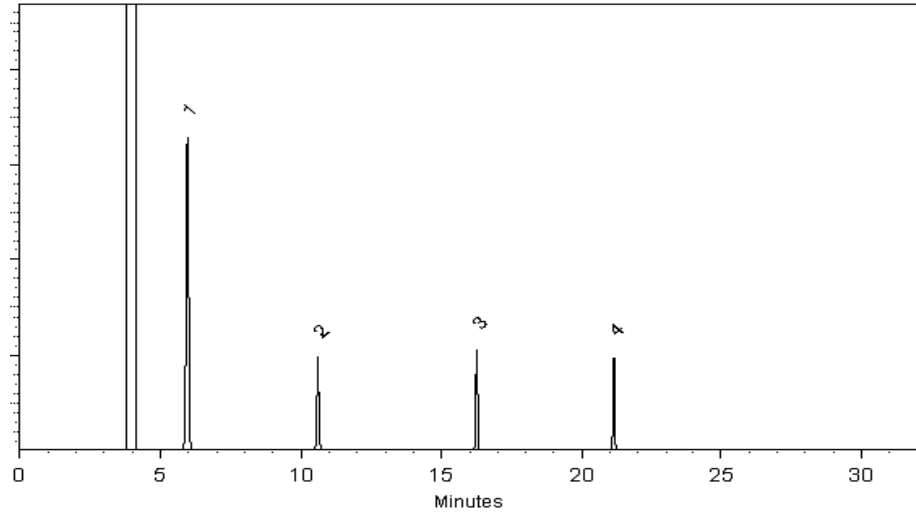
FID

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_DME_00055



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

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. : 564156 **Lot No.:** A0190883

Description : Custom Dimethyl Ether Standard

Custom Dimethyl Ether Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : October 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Methyl ether (dimethyl ether)	1,000.4 µg/mL	+/- 8.2332 µg/mL Gravimetric
	CAS # 115-10-6 (Lot 00021629)		+/- 22.1970 µg/mL Unstressed
	Purity 98%		+/- 22.7984 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)

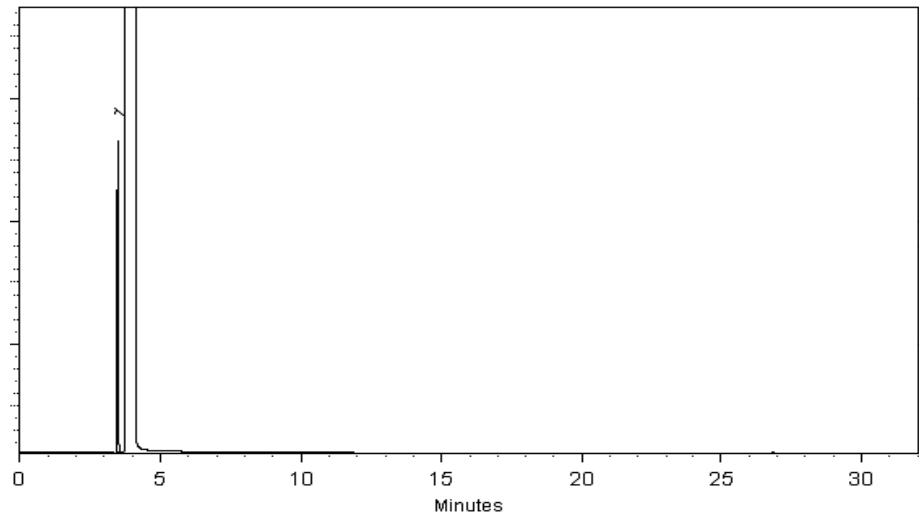
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 24-Oct-2022 Balance: B707717271

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Nov-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_M_MIX1SEC_00200



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. : 577493 **Lot No.:** A0198667

Description : Custom VOC MegaMix®.SEC #1 Standard
Custom VOC MegaMix®.SEC #1 Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : June 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.SEC	13896500	99%	1,004.5 µg/mL	+/- 57.0049
2	Methylene chloride (dichloromethane)	75-09-2.SEC	FGM02	99%	1,004.4 µg/mL	+/- 56.9992
3	trans-1,2-Dichloroethene	156-60-5.SEC	L5QOH	99%	1,003.9 µg/mL	+/- 56.9751
4	1,1-Dichloroethane	75-34-3.SEC	1026.30-3	98%	1,006.0 µg/mL	+/- 57.0953
5	2,2-Dichloropropane	594-20-7.SEC	I7E8E	99%	1,005.2 µg/mL	+/- 57.0474
6	cis-1,2-Dichloroethene	156-59-2.SEC	YZO5O	99%	1,004.3 µg/mL	+/- 56.9952
7	Chloroform	67-66-3.SEC	1297547	99%	1,003.9 µg/mL	+/- 56.9736
8	Bromochloromethane	74-97-5.SEC	13547000	99%	1,004.4 µg/mL	+/- 57.0043
9	1,1,1-Trichloroethane	71-55-6.SEC	14183000	99%	1,005.0 µg/mL	+/- 57.0375
10	1,1-Dichloropropene	563-58-6.SEC	556500	99%	1,003.8 µg/mL	+/- 56.9691
11	Carbon tetrachloride	56-23-5.SEC	11466	99%	1,003.9 µg/mL	+/- 56.9751
12	1,2-Dichloroethane	107-06-2.SEC	00016165	99%	1,003.1 µg/mL	+/- 56.9268
13	Benzene	71-43-2.SEC	B28Y008	99%	1,005.0 µg/mL	+/- 57.0361
14	Trichloroethene	79-01-6.SEC	H04X050	99%	1,003.3 µg/mL	+/- 56.9410
15	1,2-Dichloropropane	78-87-5.SEC	ERRBI-RH	99%	1,003.7 µg/mL	+/- 56.9609
16	Bromodichloromethane	75-27-4.SEC	28128	99%	1,004.8 µg/mL	+/- 57.0261

17	Dibromomethane	74-95-3.SEC MOKKJ	99%	1,004.5	µg/mL	+/-	57.0100
18	cis-1,3-Dichloropropene	10061-01-5.SEC 4870A	98%	1,004.8	µg/mL	+/-	57.0258
19	Toluene	108-88-3.SEC YND2B-BD	99%	1,004.1	µg/mL	+/-	56.9839
20	trans-1,3-Dichloropropene	10061-02-6.SEC 4870A	98%	1,006.1	µg/mL	+/-	57.0995
21	1,1,2-Trichloroethane	79-00-5.SEC 13547100	99%	1,003.8	µg/mL	+/-	56.9680
22	1,3-Dichloropropane	142-28-9.SEC IQCON	99%	1,003.6	µg/mL	+/-	56.9544
23	Tetrachloroethene	127-18-4.SEC F09W014	99%	1,003.9	µg/mL	+/-	56.9736
24	Dibromochloromethane	124-48-1.SEC 10234064	99%	1,003.9	µg/mL	+/-	56.9708
25	1,2-Dibromoethane (EDB)	106-93-4.SEC 050675P15E	99%	1,003.7	µg/mL	+/-	56.9646
26	Chlorobenzene	108-90-7.SEC 1161936	99%	1,004.0	µg/mL	+/-	56.9793
27	1,1,1,2-Tetrachloroethane	630-20-6.SEC 13789800	99%	1,003.4	µg/mL	+/-	56.9430
28	Ethylbenzene	100-41-4.SEC XO5UA	99%	1,004.6	µg/mL	+/-	57.0111
29	m-Xylene	108-38-3.SEC 7ZV6F	99%	1,004.8	µg/mL	+/-	57.0225
30	p-Xylene	106-42-3.SEC D6UOA	99%	1,004.6	µg/mL	+/-	57.0134
31	o-Xylene	95-47-6.SEC UJ6RI	99%	1,005.4	µg/mL	+/-	57.0576
32	Styrene	100-42-5.SEC QGQ7F	99%	1,003.8	µg/mL	+/-	56.9680
33	Isopropylbenzene (cumene)	98-82-8.SEC 7P24L	99%	1,005.3	µg/mL	+/-	57.0531
34	Bromoform	75-25-2.SEC 13723500	99%	1,003.9	µg/mL	+/-	56.9751
35	1,1,1,2-Tetrachloroethane	79-34-5.SEC BCCD5088	99%	1,003.8	µg/mL	+/-	56.9680
36	1,2,3-Trichloropropane	96-18-4.SEC 6V2ED	99%	1,003.2	µg/mL	+/-	56.9339
37	n-Propylbenzene	103-65-1.SEC XCGEC	99%	1,004.1	µg/mL	+/-	56.9861
38	Bromobenzene	108-86-1.SEC 8DKWJ	99%	1,004.2	µg/mL	+/-	56.9929
39	1,3,5-Trimethylbenzene	108-67-8.SEC GI2SM	99%	1,004.3	µg/mL	+/-	56.9986
40	2-Chlorotoluene	95-49-8.SEC BRHPM	99%	1,003.7	µg/mL	+/-	56.9612
41	4-Chlorotoluene	106-43-4.SEC S5SKD	99%	1,004.6	µg/mL	+/-	57.0134
42	tert-Butylbenzene	98-06-6.SEC D6OHC	99%	1,004.4	µg/mL	+/-	56.9998
43	1,2,4-Trimethylbenzene	95-63-6.SEC JHZDD	99%	1,004.6	µg/mL	+/-	57.0111
44	sec-Butylbenzene	135-98-8.SEC O4HRF	99%	1,005.1	µg/mL	+/-	57.0429
45	4-Isopropyltoluene (p-cymene)	99-87-6.SEC 13889300	98%	1,004.1	µg/mL	+/-	56.9877
46	1,3-Dichlorobenzene	541-73-1.SEC ZA2ZI	99%	1,003.6	µg/mL	+/-	56.9580
47	1,4-Dichlorobenzene	106-46-7.SEC J5GVD	99%	1,005.3	µg/mL	+/-	57.0517
48	n-Butylbenzene	104-51-8.SEC MMPGA	99%	1,005.4	µg/mL	+/-	57.0599
49	1,2-Dichlorobenzene	95-50-1.SEC R6QDM	99%	1,004.0	µg/mL	+/-	56.9779
50	1,2-Dibromo-3-chloropropane	96-12-8.SEC Q135-105	99%	1,004.2	µg/mL	+/-	56.9929
51	1,2,4-Trichlorobenzene	120-82-1.SEC 3LYYC	99%	1,004.6	µg/mL	+/-	57.0145
52	Hexachlorobutadiene	87-68-3.SEC 13889400	97%	1,004.2	µg/mL	+/-	56.9930

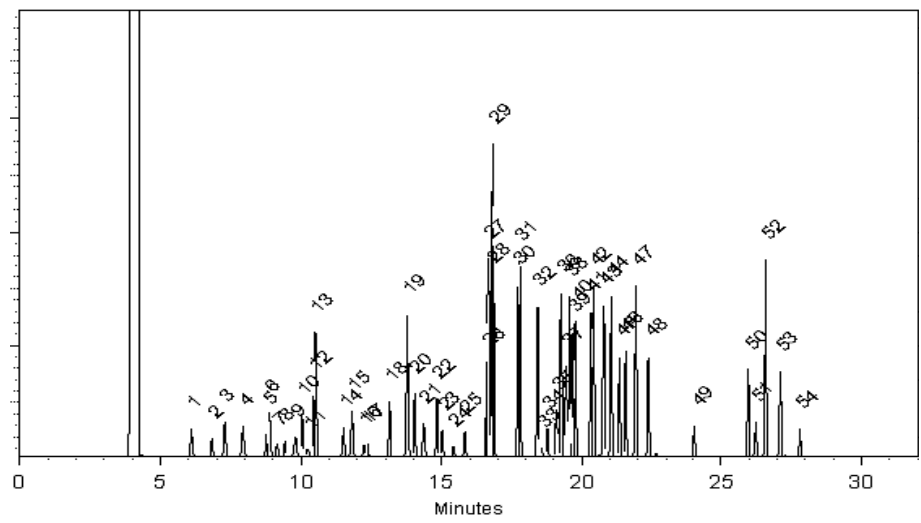
53	Naphthalene	91-20-3.SEC	AM5NG	99%	1,002.7	µg/mL	+/- 56.9055
54	1,2,3-Trichlorobenzene	87-61-6.SEC	A0043055	99%	1,004.6	µg/mL	+/- 57.0156

* 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.


Jess Hoy - Operations Tech I

Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 02-Jun-2023 **Balance Serial #** B251644995
Date Passed: 06-Jun-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_M_MIX1SEC_00213



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. : 577493 **Lot No.:** A0198667

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

Expiration Date : June 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.SEC	13896500	99%	1,004.5 µg/mL	+/- 57.0049
2	Methylene chloride (dichloromethane)	75-09-2.SEC	FGM02	99%	1,004.4 µg/mL	+/- 56.9992
3	trans-1,2-Dichloroethene	156-60-5.SEC	L5QOH	99%	1,003.9 µg/mL	+/- 56.9751
4	1,1-Dichloroethane	75-34-3.SEC	1026.30-3	98%	1,006.0 µg/mL	+/- 57.0953
5	2,2-Dichloropropane	594-20-7.SEC	I7E8E	99%	1,005.2 µg/mL	+/- 57.0474
6	cis-1,2-Dichloroethene	156-59-2.SEC	YZO5O	99%	1,004.3 µg/mL	+/- 56.9952
7	Chloroform	67-66-3.SEC	1297547	99%	1,003.9 µg/mL	+/- 56.9736
8	Bromochloromethane	74-97-5.SEC	13547000	99%	1,004.4 µg/mL	+/- 57.0043
9	1,1,1-Trichloroethane	71-55-6.SEC	14183000	99%	1,005.0 µg/mL	+/- 57.0375
10	1,1-Dichloropropene	563-58-6.SEC	556500	99%	1,003.8 µg/mL	+/- 56.9691
11	Carbon tetrachloride	56-23-5.SEC	11466	99%	1,003.9 µg/mL	+/- 56.9751
12	1,2-Dichloroethane	107-06-2.SEC	00016165	99%	1,003.1 µg/mL	+/- 56.9268
13	Benzene	71-43-2.SEC	B28Y008	99%	1,005.0 µg/mL	+/- 57.0361
14	Trichloroethene	79-01-6.SEC	H04X050	99%	1,003.3 µg/mL	+/- 56.9410
15	1,2-Dichloropropane	78-87-5.SEC	ERRBI-RH	99%	1,003.7 µg/mL	+/- 56.9609
16	Bromodichloromethane	75-27-4.SEC	28128	99%	1,004.8 µg/mL	+/- 57.0261

17	Dibromomethane	74-95-3.SEC MOKKJ	99%	1,004.5	µg/mL	+/-	57.0100
18	cis-1,3-Dichloropropene	10061-01-5.SEC 4870A	98%	1,004.8	µg/mL	+/-	57.0258
19	Toluene	108-88-3.SEC YND2B-BD	99%	1,004.1	µg/mL	+/-	56.9839
20	trans-1,3-Dichloropropene	10061-02-6.SEC ZDMSL	98%	1,006.1	µg/mL	+/-	57.0995
21	1,1,2-Trichloroethane	79-00-5.SEC 13547100	99%	1,003.8	µg/mL	+/-	56.9680
22	1,3-Dichloropropane	142-28-9.SEC IQCON	99%	1,003.6	µg/mL	+/-	56.9544
23	Tetrachloroethene	127-18-4.SEC F09W014	99%	1,003.9	µg/mL	+/-	56.9736
24	Dibromochloromethane	124-48-1.SEC 10234064	99%	1,003.9	µg/mL	+/-	56.9708
25	1,2-Dibromoethane (EDB)	106-93-4.SEC 050675P15E	99%	1,003.7	µg/mL	+/-	56.9646
26	Chlorobenzene	108-90-7.SEC 1161936	99%	1,004.0	µg/mL	+/-	56.9793
27	1,1,1,2-Tetrachloroethane	630-20-6.SEC 13789800	99%	1,003.4	µg/mL	+/-	56.9430
28	Ethylbenzene	100-41-4.SEC XO5UA	99%	1,004.6	µg/mL	+/-	57.0111
29	m-Xylene	108-38-3.SEC 7ZV6F	99%	1,004.8	µg/mL	+/-	57.0225
30	p-Xylene	106-42-3.SEC D6UOA	99%	1,004.6	µg/mL	+/-	57.0134
31	o-Xylene	95-47-6.SEC UJ6RI	99%	1,005.4	µg/mL	+/-	57.0576
32	Styrene	100-42-5.SEC QGQ7F	99%	1,003.8	µg/mL	+/-	56.9680
33	Isopropylbenzene (cumene)	98-82-8.SEC 7P24L	99%	1,005.3	µg/mL	+/-	57.0531
34	Bromoform	75-25-2.SEC 13723500	99%	1,003.9	µg/mL	+/-	56.9751
35	1,1,1,2-Tetrachloroethane	79-34-5.SEC BCCD5088	99%	1,003.8	µg/mL	+/-	56.9680
36	1,2,3-Trichloropropane	96-18-4.SEC 6V2ED	99%	1,003.2	µg/mL	+/-	56.9339
37	n-Propylbenzene	103-65-1.SEC XCGEC	99%	1,004.1	µg/mL	+/-	56.9861
38	Bromobenzene	108-86-1.SEC 8DKWJ	99%	1,004.2	µg/mL	+/-	56.9929
39	1,3,5-Trimethylbenzene	108-67-8.SEC GI2SM	99%	1,004.3	µg/mL	+/-	56.9986
40	2-Chlorotoluene	95-49-8.SEC BRHPM	99%	1,003.7	µg/mL	+/-	56.9612
41	4-Chlorotoluene	106-43-4.SEC S5SKD	99%	1,004.6	µg/mL	+/-	57.0134
42	tert-Butylbenzene	98-06-6.SEC D6OHC	99%	1,004.4	µg/mL	+/-	56.9998
43	1,2,4-Trimethylbenzene	95-63-6.SEC JHZDD	99%	1,004.6	µg/mL	+/-	57.0111
44	sec-Butylbenzene	135-98-8.SEC O4HRF	99%	1,005.1	µg/mL	+/-	57.0429
45	4-Isopropyltoluene (p-cymene)	99-87-6.SEC 13889300	98%	1,004.1	µg/mL	+/-	56.9877
46	1,3-Dichlorobenzene	541-73-1.SEC ZA2ZI	99%	1,003.6	µg/mL	+/-	56.9580
47	1,4-Dichlorobenzene	106-46-7.SEC J5GVD	99%	1,005.3	µg/mL	+/-	57.0517
48	n-Butylbenzene	104-51-8.SEC MMPGA	99%	1,005.4	µg/mL	+/-	57.0599
49	1,2-Dichlorobenzene	95-50-1.SEC R6QDM	99%	1,004.0	µg/mL	+/-	56.9779
50	1,2-Dibromo-3-chloropropane	96-12-8.SEC Q135-105	99%	1,004.2	µg/mL	+/-	56.9929
51	1,2,4-Trichlorobenzene	120-82-1.SEC 3LYYC	99%	1,004.6	µg/mL	+/-	57.0145
52	Hexachlorobutadiene	87-68-3.SEC 13889400	97%	1,004.2	µg/mL	+/-	56.9930

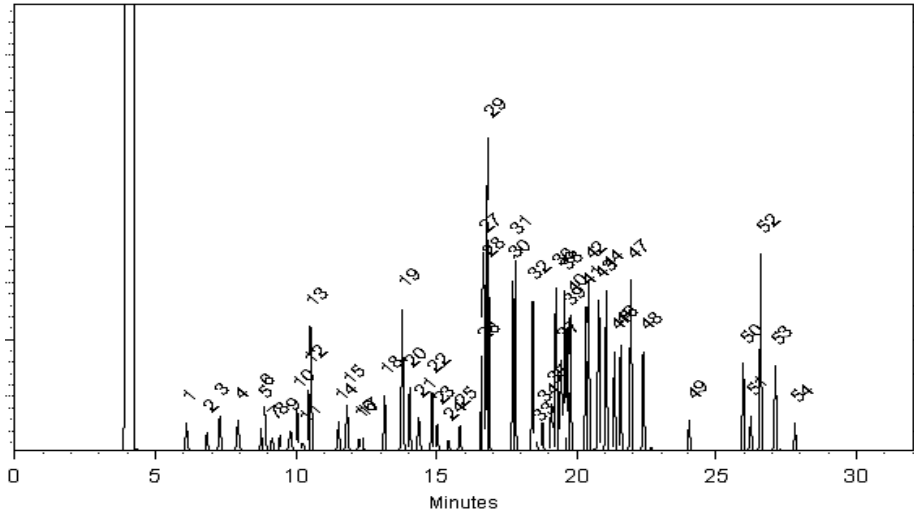
53	Naphthalene	91-20-3.SEC	AM5NG	99%	1,002.7	µg/mL	+/- 56.9055
54	1,2,3-Trichlorobenzene	87-61-6.SEC	A0043055	99%	1,004.6	µg/mL	+/- 57.0156

* 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.


Jess Hoy - Operations Tech I

Date Mixed: 02-Jun-2023 **Balance Serial #** B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Jun-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_M_MIX2SEC_00207



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. : 577494 **Lot No.:** A0197573

Description : Custom VOC MegaMix®.SEC #2 Standard

Custom VOC MegaMix®.SEC #2 Standard 1,000-50,000µg/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	n-Pentane (C5)	109-66-0.SEC FGH02		99%	1,006.7 µg/mL	+/- 16.4916
2	2-Propanol (isopropanol)	67-63-0.SEC 7B8ZE		99%	7,533.3 µg/mL	+/- 123.1844
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1.SEC 18342		99%	1,004.0 µg/mL	+/- 16.4479
4	tert-Butanol (TBA)	75-65-0.SEC DI34O		99%	10,066.7 µg/mL	+/- 164.6093
5	Methyl acetate	79-20-9.SEC LV27M		99%	1,006.0 µg/mL	+/- 16.4807
6	Iodomethane (methyl iodide)	74-88-4.SEC Y25A027		99%	1,003.3 µg/mL	+/- 16.4370
7	Allyl chloride (3-chloropropene)	107-05-1.SEC RD210329		99%	1,006.0 µg/mL	+/- 16.4807
8	Carbon disulfide	75-15-0.SEC MKBL1376V		99%	1,002.7 µg/mL	+/- 16.4260
9	Acrylonitrile	107-13-1.SEC V54AD		99%	5,030.0 µg/mL	+/- 82.2742
10	Methyl-tert-butyl ether (MTBE)	1634-04-4.SECDCQG		99%	1,007.3 µg/mL	+/- 16.5025
11	n-Hexane (C6)	110-54-3.SEC 10188491		99%	1,009.3 µg/mL	+/- 16.5353
12	Diisopropyl ether (DIPE)	108-20-3.SEC LL7TN-SH		99%	1,005.3 µg/mL	+/- 16.4697
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8 S230420RSR		99%	1,005.3 µg/mL	+/- 16.4697
14	Ethyl-tert-butyl ether (ETBE)	637-92-3.SEC UCI5B		98%	1,006.8 µg/mL	+/- 16.4935
15	Propionitrile	107-12-0.SEC B4ZPC		99%	7,542.0 µg/mL	+/- 123.3262
16	Methacrylonitrile	126-98-7 1012014		99%	7,562.0 µg/mL	+/- 123.6532

17	Isobutanol (2-Methyl-1-propanol)	78-83-1.SEC YNG3K	99%	25,096.0	µg/mL	+/-	410.3677
18	Tetrahydrofuran	109-99-9.SEC 3NYHE	99%	5,033.3	µg/mL	+/-	82.3287
19	Cyclohexane	110-82-7.SEC YADRA	99%	1,005.3	µg/mL	+/-	16.4697
20	1-Butanol	71-36-3.SEC RSHAH	99%	50,062.7	µg/mL	+/-	818.6206
21	tert-Amyl methyl ether (TAME)	994-05-8.SEC 12075100	98%	1,005.8	µg/mL	+/-	16.4775
22	n-Heptane (C7)	142-82-5.SEC TFHUC	99%	1,002.0	µg/mL	+/-	16.4151
23	tert-Amyl ethyl ether (TAEE)	919-94-8.SEC 11370700	99%	1,005.3	µg/mL	+/-	16.4697
24	Methylcyclohexane	108-87-2.SEC Q02QG	99%	1,008.7	µg/mL	+/-	16.5243
25	Methyl methacrylate	80-62-6.SEC G01X021	99%	1,003.3	µg/mL	+/-	16.4370
26	1,4-Dioxane	123-91-1.SEC QHRWO	99%	25,144.0	µg/mL	+/-	411.1526
27	2-Nitropropane	79-46-9.SEC F43IA	99%	1,003.3	µg/mL	+/-	16.4370
28	Ethyl methacrylate	97-63-2.SEC AQSP0	99%	1,003.3	µg/mL	+/-	16.4370
29	1-Chlorohexane	544-10-5.SEC 13075400	99%	1,002.0	µg/mL	+/-	16.4151
30	trans-1,4-Dichloro-2-butene	110-57-6.SEC RD230316RSR	96%	5,033.0	µg/mL	+/-	82.3226
31	1,2,3-Trimethylbenzene	526-73-8.SEC 13921700	98%	1,007.4	µg/mL	+/-	16.5042
32	1,3-Diethylbenzene	141-93-5.SEC 113566-1	99%	1,000.7	µg/mL	+/-	16.3933
33	Benzyl chloride	100-44-7.SEC H29N03	99%	1,002.0	µg/mL	+/-	16.4151
34	1,4-Diethylbenzene	105-05-5.SEC FBQ02	98%	1,004.8	µg/mL	+/-	16.4614
35	1,2-Diethylbenzene	135-01-3.SEC BCBF3667V	99%	1,001.3	µg/mL	+/-	16.4042
36	1,3,5-Trichlorobenzene	108-70-3.SEC I28U021	99%	1,007.5	µg/mL	+/-	16.5058
37	2-Methylnaphthalene	91-57-6.SEC 76023-1	99%	1,003.3	µg/mL	+/-	16.4370

* 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:

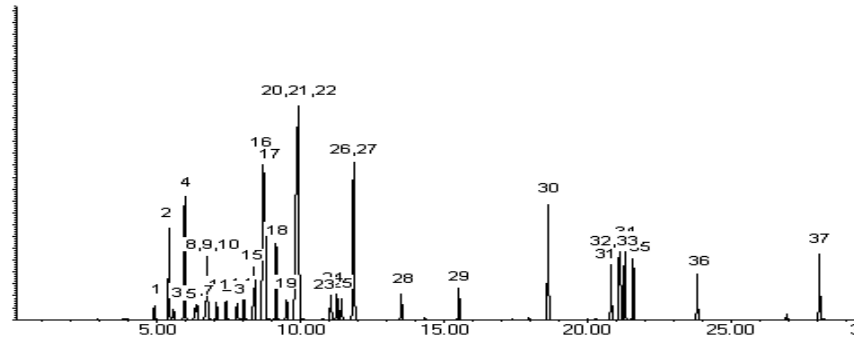
MSD

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.


Bryan Snyder - Operations Tech I

Date Mixed: 30-Apr-2023 Balance Serial # 1128342314


Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 19-Jun-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_M_MIX2SEC_00217



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. : 577494 **Lot No.:** A0197573

Description : Custom VOC MegaMix®.SEC #2 Standard
Custom VOC MegaMix®.SEC #2 Standard 1,000-50,000µg/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	n-Pentane (C5)	109-66-0.SEC FGH02		99%	1,006.7 µg/mL	+/- 16.4916
2	2-Propanol (isopropanol)	67-63-0.SEC 7B8ZE		99%	7,533.3 µg/mL	+/- 123.1844
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1.SEC 18342		99%	1,004.0 µg/mL	+/- 16.4479
4	tert-Butanol (TBA)	75-65-0.SEC DI34O		99%	10,066.7 µg/mL	+/- 164.6093
5	Methyl acetate	79-20-9.SEC LV27M		99%	1,006.0 µg/mL	+/- 16.4807
6	Iodomethane (methyl iodide)	74-88-4.SEC Y25A027		99%	1,003.3 µg/mL	+/- 16.4370
7	Allyl chloride (3-chloropropene)	107-05-1.SEC RD210329		99%	1,006.0 µg/mL	+/- 16.4807
8	Carbon disulfide	75-15-0.SEC MKBL1376V		99%	1,002.7 µg/mL	+/- 16.4260
9	Acrylonitrile	107-13-1.SEC V54AD		99%	5,030.0 µg/mL	+/- 82.2742
10	Methyl-tert-butyl ether (MTBE)	1634-04-4.SECDCQG		99%	1,007.3 µg/mL	+/- 16.5025
11	n-Hexane (C6)	110-54-3.SEC 10188491		99%	1,009.3 µg/mL	+/- 16.5353
12	Diisopropyl ether (DIPE)	108-20-3.SEC LL7TN-SH		99%	1,005.3 µg/mL	+/- 16.4697
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8 S230420RSR		99%	1,005.3 µg/mL	+/- 16.4697
14	Ethyl-tert-butyl ether (ETBE)	637-92-3.SEC UCI5B		98%	1,006.8 µg/mL	+/- 16.4935
15	Propionitrile	107-12-0.SEC B4ZPC		99%	7,542.0 µg/mL	+/- 123.3262
16	Methacrylonitrile	126-98-7 1012014		99%	7,562.0 µg/mL	+/- 123.6532

17	Isobutanol (2-Methyl-1-propanol)	78-83-1.SEC YNG3K	99%	25,096.0	µg/mL	+/-	410.3677
18	Tetrahydrofuran	109-99-9.SEC 3NYHE	99%	5,033.3	µg/mL	+/-	82.3287
19	Cyclohexane	110-82-7.SEC YADRA	99%	1,005.3	µg/mL	+/-	16.4697
20	1-Butanol	71-36-3.SEC RSHAH	99%	50,062.7	µg/mL	+/-	818.6206
21	tert-Amyl methyl ether (TAME)	994-05-8.SEC 12075100	98%	1,005.8	µg/mL	+/-	16.4775
22	n-Heptane (C7)	142-82-5.SEC TFHUC	99%	1,002.0	µg/mL	+/-	16.4151
23	tert-Amyl ethyl ether (TAEE)	919-94-8.SEC 11370700	99%	1,005.3	µg/mL	+/-	16.4697
24	Methylcyclohexane	108-87-2.SEC Q02QG	99%	1,008.7	µg/mL	+/-	16.5243
25	Methyl methacrylate	80-62-6.SEC G01X021	99%	1,003.3	µg/mL	+/-	16.4370
26	1,4-Dioxane	123-91-1.SEC QHRWO	99%	25,144.0	µg/mL	+/-	411.1526
27	2-Nitropropane	79-46-9.SEC F43IA	99%	1,003.3	µg/mL	+/-	16.4370
28	Ethyl methacrylate	97-63-2.SEC AQSPO	99%	1,003.3	µg/mL	+/-	16.4370
29	1-Chlorohexane	544-10-5.SEC 13075400	99%	1,002.0	µg/mL	+/-	16.4151
30	trans-1,4-Dichloro-2-butene	110-57-6.SEC RD230316RSR	96%	5,033.0	µg/mL	+/-	82.3226
31	1,2,3-Trimethylbenzene	526-73-8.SEC 13921700	98%	1,007.4	µg/mL	+/-	16.5042
32	1,3-Diethylbenzene	141-93-5.SEC 113566-1	99%	1,000.7	µg/mL	+/-	16.3933
33	Benzyl chloride	100-44-7.SEC H29N03	99%	1,002.0	µg/mL	+/-	16.4151
34	1,4-Diethylbenzene	105-05-5.SEC FBQ02	98%	1,004.8	µg/mL	+/-	16.4614
35	1,2-Diethylbenzene	135-01-3.SEC BCBF3667V	99%	1,001.3	µg/mL	+/-	16.4042
36	1,3,5-Trichlorobenzene	108-70-3.SEC I28U021	99%	1,007.5	µg/mL	+/-	16.5058
37	2-Methylnaphthalene	91-57-6.SEC 76023-1	99%	1,003.3	µg/mL	+/-	16.4370

* 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:

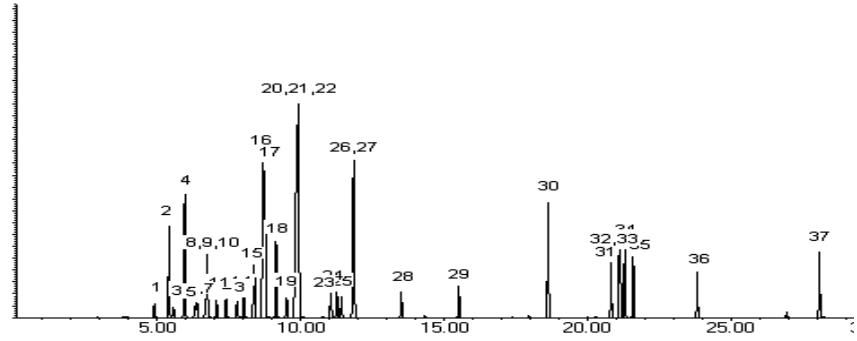
MSD

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.


Bryan Snyder - Operations Tech I

Date Mixed: 30-Apr-2023

Balance Serial # 1128342314


Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 19-Jun-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_00178



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

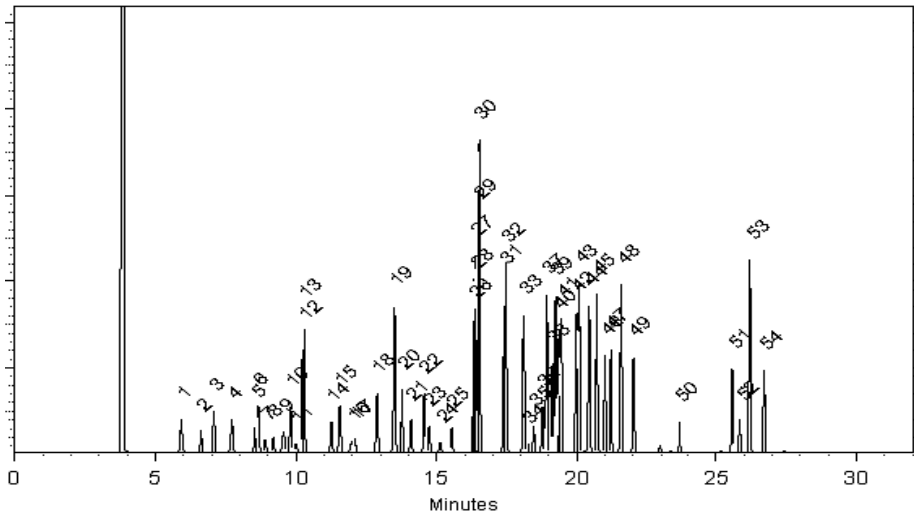
53	Naphthalene	91-20-3	MKCH0219	99%	5,029.9	µg/mL	+/- 283.3234
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,045.3	µg/mL	+/- 284.1908

* 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_00184



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:

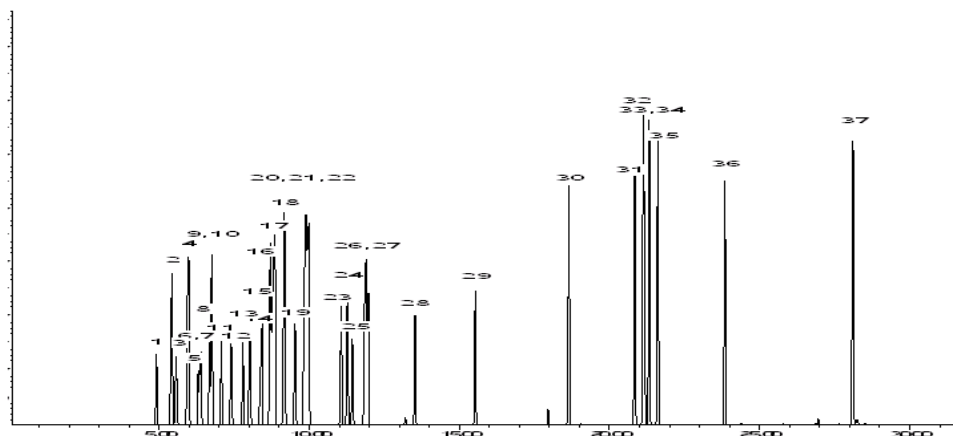
MSD

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_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. : 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 (TAE)	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:

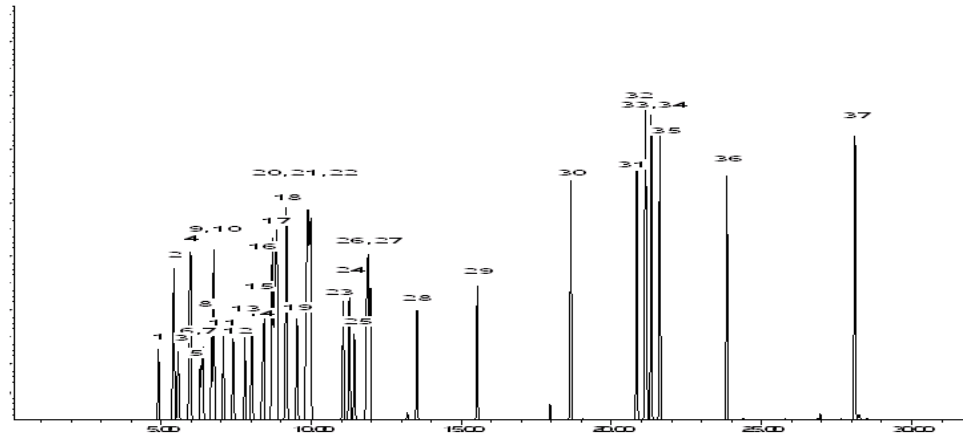
MSD

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:

- 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_00188



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:

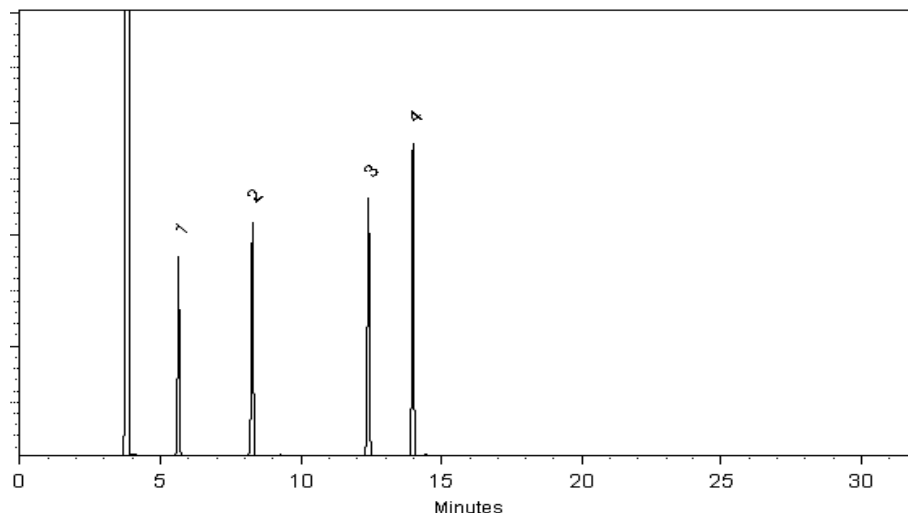
FID

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_QC_2K_GAS_00160



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:

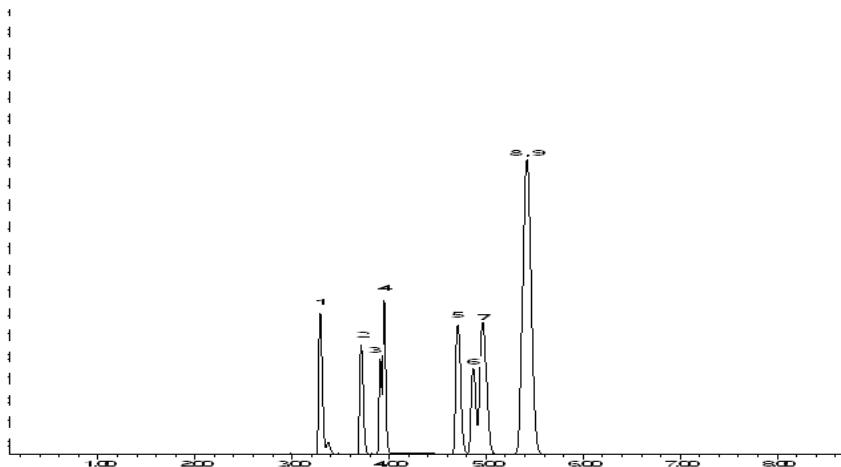
200°C

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_QC_2K_GAS_00228



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:

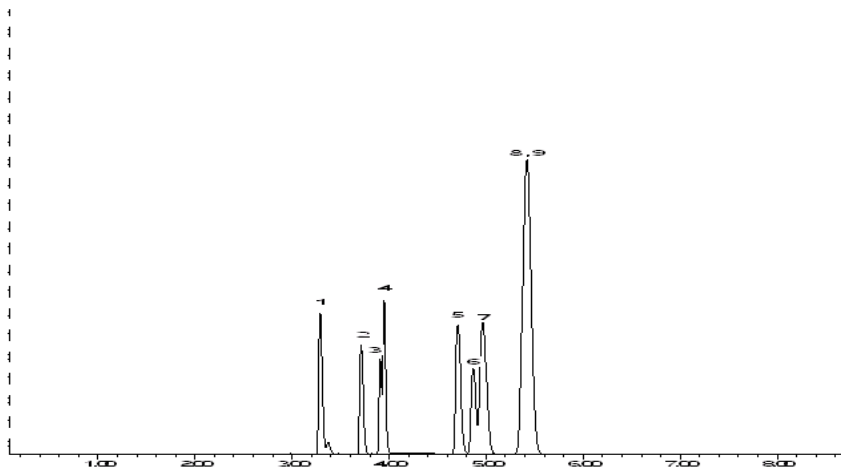
200°C

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_V_2CLEVE_00184



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:

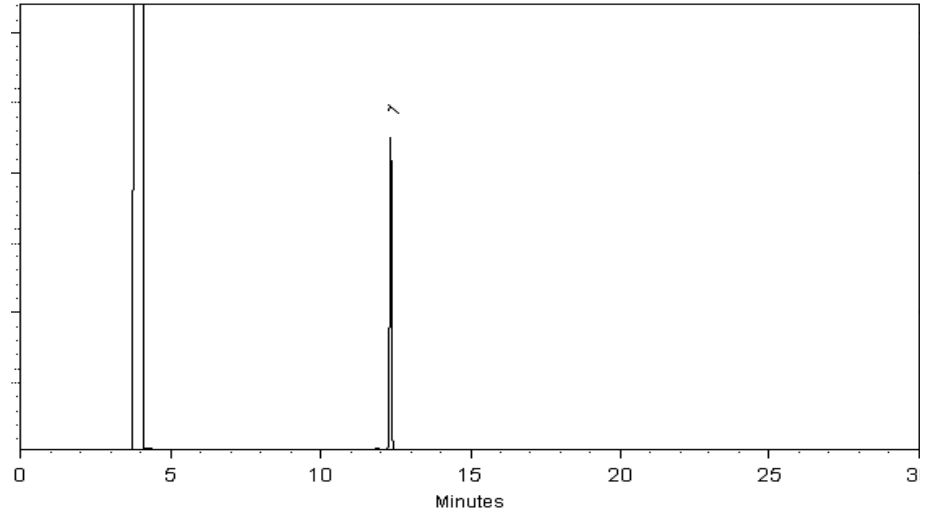
FID

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_00167



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 **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:

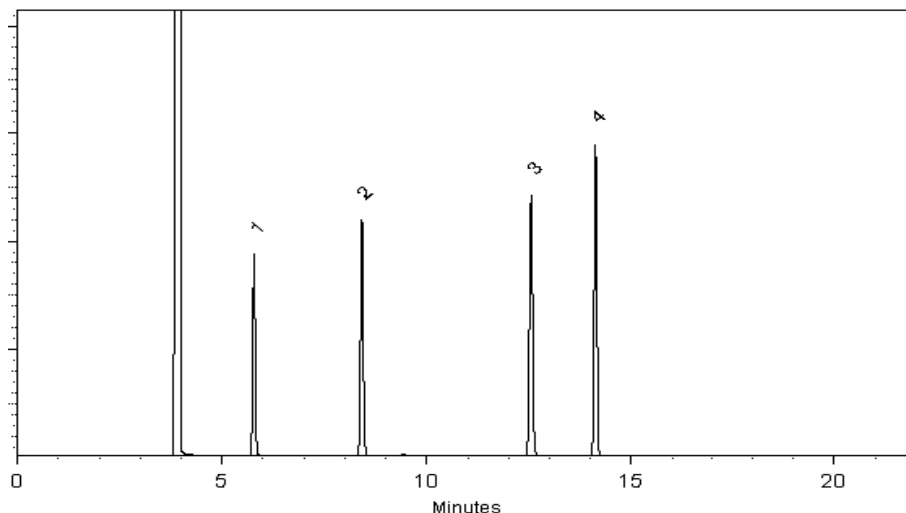
FID

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_00173



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 **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:

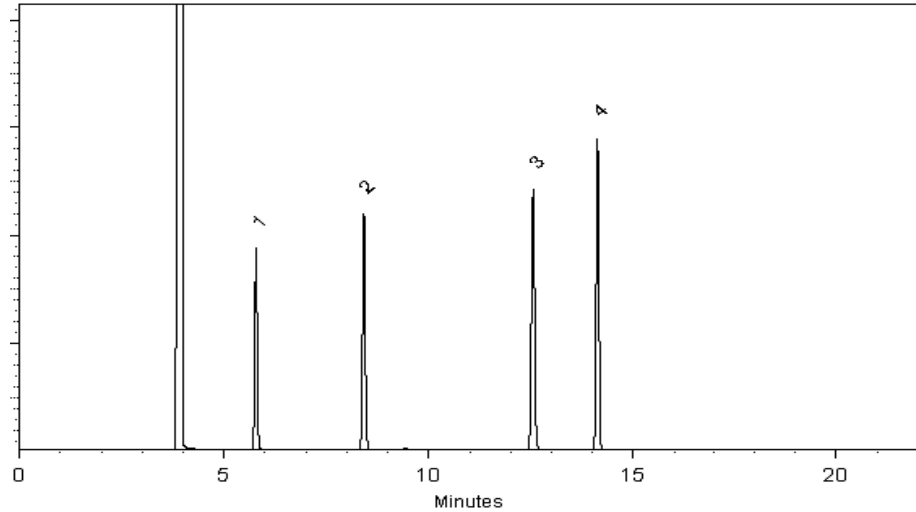
FID

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_PentaCL_00048



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. : 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)

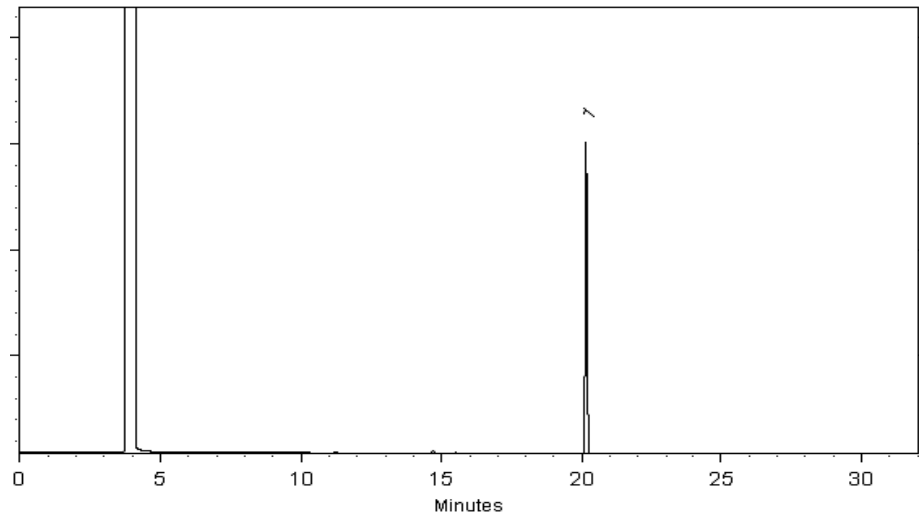
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00039



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

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 CAS # 79-38-9 (Lot 202600) Purity 99%	2,000.6 µg/mL	+/- 37.3988 µg/mL Gravimetric +/- 117.6695 µg/mL Unstressed +/- 120.1742 µg/mL Stressed
2	Chlorodifluoromethane (CFC-22) CAS # 75-45-6 (Lot Q162-44) Purity 99%	2,004.5 µg/mL	+/- 79.7514 µg/mL Gravimetric +/- 137.3187 µg/mL Unstressed +/- 139.4793 µg/mL Stressed
3	2-Chloro-1,1,1-trifluoroethane (HCFC-133a) CAS # 75-88-7 (Lot Q157-146) Purity 99%	2,000.3 µg/mL	+/- 53.9352 µg/mL Gravimetric +/- 123.9040 µg/mL Unstressed +/- 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)

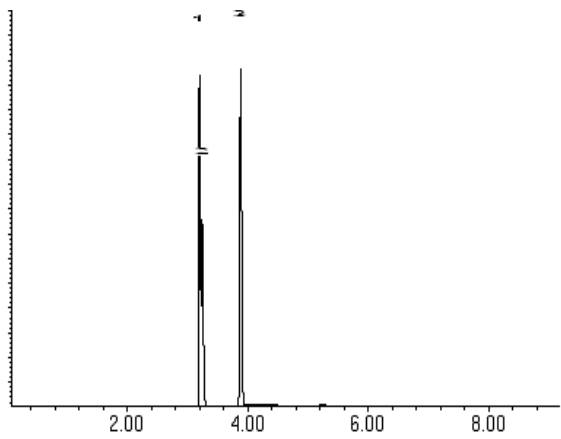
Carrier Gas:
helium-constant flow 2.0 mL/min.

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 Low Level

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

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-COD-SW-6-0/1-0	410-181527-1	100	105	101	95
HD-COD-SW-7-0/1-0	410-181527-2	99	102	101	95
HD-COD-SW-8-0/1-0	410-181527-3	100	103	98	94
HD-COD-SW-9-0/1-0	410-181527-4	100	103	100	95
HD-COD-SW-13-0/1-0	410-181527-5	100	104	101	97
HD-COD-SW-15-0/1-0	410-181527-6	100	105	100	95
HD-COD-SW-16-0/1-0	410-181527-7	100	104	100	94
HD-COD-SW-17-0/1-0	410-181527-8	101	105	96	93
HD-COD-SW-17-0/1-0 DL	410-181527-8 DL	100	104	98	93
HD-COD-SW-26-0/1-0	410-181527-9	99	104	99	95
HD-COD-SW-27-0/1-0	410-181527-10	100	103	100	94
HD-COD-SW-28-0/1-0	410-181527-11	100	103	101	95
HD-COD-SW-29-0/1-0	410-181527-12	100	104	100	94
HD-QC1-0/1-1	410-181527-13	103	106	96	93
HD-QC1-0/1-1 DL	410-181527-13 DL	101	105	97	92
HD-QC1-0/1-2	410-181527-14	98	103	101	96
	MB 410-533656/6	98	101	100	97
	LCS 410-533656/4	97	102	101	98
HD-COD-SW-15-0/1-0 MS MS	410-181527-6 MS	100	102	100	96
HD-COD-SW-15-0/1-0 MSD MSD	410-181527-6 MSD	99	103	100	96

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.: 410-181527-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: CL29X03.D

Lab ID: LCS 410-533656/4

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.76	95	71-134	
1,1,1-Trichloroethane	5.00	4.64	93	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.14	103	75-123	
1,1,2-Trichloroethane	5.00	5.08	102	80-120	
1,1-Dichloroethane	5.00	4.90	98	74-120	
1,1-Dichloroethene	5.00	4.92	98	80-131	
1,2-Dibromoethane (EDB)	5.00	4.99	100	80-120	
1,2-Dichloroethane	5.00	4.72	94	69-122	
1,2-Dichloropropane	5.00	5.07	101	80-120	
2-Butanone (MEK)	62.5	72.6	116	59-141	
2-Hexanone	62.5	72.7	116	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	71.3	114	55-140	
Acetone	62.5	64.8	104	60-146	
Benzene	5.00	4.94	99	80-120	
Bromochloromethane	5.00	4.95	99	80-120	
Bromodichloromethane	5.00	4.91	98	73-124	
Bromoform	5.00	4.87	97	49-144	
Bromomethane	5.00	3.91	78	60-136	
Carbon disulfide	5.00	4.78	96	67-130	
Carbon tetrachloride	5.00	4.43	89	64-141	
Chlorobenzene	5.00	4.80	96	80-120	
Chloroethane	5.00	3.86	77	63-120	
Chloroform	5.00	4.58	92	80-120	
Chloromethane	5.00	3.83	77	56-124	
cis-1,2-Dichloroethene	5.00	4.92	98	80-122	
cis-1,3-Dichloropropene	5.00	4.71	94	67-121	
Dibromochloromethane	5.00	4.98	100	64-138	
Ethylbenzene	5.00	4.90	98	80-120	
Methyl tert-butyl ether	5.00	4.80	96	69-120	
Methylene Chloride	5.00	4.81	96	80-120	
Styrene	5.00	4.96	99	80-120	
Tetrachloroethene	5.00	4.44	89	80-120	
Toluene	5.00	4.98	100	80-120	
trans-1,2-Dichloroethene	5.00	4.84	97	80-122	
trans-1,3-Dichloropropene	5.00	4.90	98	61-129	
Trichloroethene	5.00	4.69	94	80-120	
Vinyl chloride	5.00	3.61	72	60-125	
Xylenes, Total	15.0	14.4	96	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.: 410-181527-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: CL29X19.D

Lab ID: 410-181527-6 MS

Client ID: HD-COD-SW-15-0/1-0 MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	ND	5.35	107	71-134	
1,1,1-Trichloroethane	5.00	0.40 J	6.06	113	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	5.33	107	75-123	
1,1,2-Trichloroethane	5.00	ND	5.51	110	80-120	
1,1-Dichloroethane	5.00	0.13 J	5.82	114	74-120	
1,1-Dichloroethene	5.00	0.21 J	6.33	122	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	5.38	108	80-120	
1,2-Dichloroethane	5.00	ND	5.39	108	69-122	
1,2-Dichloropropane	5.00	ND	5.62	112	80-120	
2-Butanone (MEK)	62.6	ND	69.3	111	59-141	
2-Hexanone	62.6	ND	73.1	117	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	ND	72.1	115	55-140	
Acetone	62.6	ND	68.7	110	60-146	
Benzene	5.00	ND	5.77	115	80-120	
Bromochloromethane	5.00	ND	5.65	113	80-120	
Bromodichloromethane	5.00	ND	5.61	112	73-124	
Bromoform	5.00	ND	5.14	103	49-144	
Bromomethane	5.00	ND	5.33	106	60-136	
Carbon disulfide	5.00	ND	5.91	118	67-130	
Carbon tetrachloride	5.00	ND	5.66	113	64-141	
Chlorobenzene	5.00	ND	5.49	110	80-120	
Chloroethane	5.00	ND	5.16	103	63-120	
Chloroform	5.00	0.19 J	5.52	107	80-120	
Chloromethane	5.00	ND	5.37	107	80-120	
cis-1,2-Dichloroethene	5.00	1.5	7.21	115	80-122	
cis-1,3-Dichloropropene	5.00	ND	5.05	101	67-121	
Dibromochloromethane	5.00	ND	5.41	108	64-138	
Ethylbenzene	5.00	ND	5.65	113	80-120	
Methyl tert-butyl ether	5.00	ND	5.13	102	69-120	
Methylene Chloride	5.00	ND	5.42	108	80-120	
Styrene	5.00	ND	5.56	111	80-120	
Tetrachloroethene	5.00	6.2	11.5	106	80-120	
Toluene	5.00	ND	5.69	114	80-120	
trans-1,2-Dichloroethene	5.00	ND	5.80	116	80-122	
trans-1,3-Dichloropropene	5.00	ND	5.07	101	61-129	
Trichloroethene	5.00	1.4	6.92	111	80-120	
Vinyl chloride	5.00	ND	5.43	109	60-125	
Xylenes, Total	15.0	ND	16.7	111	80-120	

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.: 410-181527-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: CL29X20.D

Lab ID: 410-181527-6 MSD

Client ID: HD-COD-SW-15-0/1-0 MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	5.00	5.28	106	1	30	71-134	
1,1,1-Trichloroethane	5.00	6.01	112	1	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.31	106	1	30	75-123	
1,1,2-Trichloroethane	5.00	5.43	109	1	30	80-120	
1,1-Dichloroethane	5.00	5.73	112	2	30	74-120	
1,1-Dichloroethene	5.00	6.30	122	0	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.40	108	0	30	80-120	
1,2-Dichloroethane	5.00	5.12	102	5	30	69-122	
1,2-Dichloropropane	5.00	5.58	112	1	30	80-120	
2-Butanone (MEK)	62.6	73.1	117	5	30	59-141	
2-Hexanone	62.6	75.1	120	3	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	72.3	115	0	30	55-140	
Acetone	62.6	68.0	109	1	30	60-146	
Benzene	5.00	5.62	112	3	30	80-120	
Bromochloromethane	5.00	5.44	109	4	30	80-120	
Bromodichloromethane	5.00	5.45	109	3	30	73-124	
Bromoform	5.00	5.10	102	1	30	49-144	
Bromomethane	5.00	4.74	95	12	30	60-136	
Carbon disulfide	5.00	5.79	116	2	30	67-130	
Carbon tetrachloride	5.00	5.60	112	1	30	64-141	
Chlorobenzene	5.00	5.47	109	0	30	80-120	
Chloroethane	5.00	5.18	104	0	30	63-120	
Chloroform	5.00	5.41	104	2	30	80-120	
Chloromethane	5.00	5.17	103	4	30	80-120	
cis-1,2-Dichloroethene	5.00	7.09	113	2	30	80-122	
cis-1,3-Dichloropropene	5.00	5.04	101	0	30	67-121	
Dibromochloromethane	5.00	5.38	107	1	30	64-138	
Ethylbenzene	5.00	5.66	113	0	30	80-120	
Methyl tert-butyl ether	5.00	5.02	100	2	30	69-120	
Methylene Chloride	5.00	5.38	108	1	30	80-120	
Styrene	5.00	5.49	110	1	30	80-120	
Tetrachloroethene	5.00	11.5	106	0	30	80-120	
Toluene	5.00	5.65	113	1	30	80-120	
trans-1,2-Dichloroethene	5.00	5.71	114	2	30	80-122	
trans-1,3-Dichloropropene	5.00	5.15	103	2	30	61-129	
Trichloroethene	5.00	6.91	111	0	30	80-120	
Vinyl chloride	5.00	5.45	109	0	30	60-125	
Xylenes, Total	15.0	16.5	110	1	30	80-120	

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.: 410-181527-1

SDG No.: _____

Lab File ID: CL29X05.D

Lab Sample ID: MB 410-533656/6

Matrix: Water

Heated Purge: (Y/N) N

Instrument ID: 10193

Date Analyzed: 07/29/2024 20:40

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 410-533656/4	CL29X03.D	07/29/2024 19:55
HD-QC1-0/1-2	410-181527-14	CL29X07.D	07/29/2024 21:24
HD-COD-SW-6-0/1-0	410-181527-1	CL29X13.D	07/29/2024 23:38
HD-COD-SW-7-0/1-0	410-181527-2	CL29X14.D	07/30/2024 00:00
HD-COD-SW-8-0/1-0	410-181527-3	CL29X15.D	07/30/2024 00:22
HD-COD-SW-9-0/1-0	410-181527-4	CL29X16.D	07/30/2024 00:45
HD-COD-SW-13-0/1-0	410-181527-5	CL29X17.D	07/30/2024 01:07
HD-COD-SW-15-0/1-0	410-181527-6	CL29X18.D	07/30/2024 01:29
HD-COD-SW-15-0/1-0 MS MS	410-181527-6 MS	CL29X19.D	07/30/2024 01:52
HD-COD-SW-15-0/1-0 MSD MSD	410-181527-6 MSD	CL29X20.D	07/30/2024 02:14
HD-COD-SW-16-0/1-0	410-181527-7	CL29X21.D	07/30/2024 02:36
HD-COD-SW-26-0/1-0	410-181527-9	CL29X22.D	07/30/2024 02:58
HD-COD-SW-27-0/1-0	410-181527-10	CL29X23.D	07/30/2024 03:21
HD-COD-SW-28-0/1-0	410-181527-11	CL29X24.D	07/30/2024 03:43
HD-COD-SW-29-0/1-0	410-181527-12	CL29X25.D	07/30/2024 04:05
HD-COD-SW-17-0/1-0	410-181527-8	CL29X26.D	07/30/2024 04:28
HD-COD-SW-17-0/1-0 DL	410-181527-8 DL	CL29X27.D	07/30/2024 04:50
HD-QC1-0/1-1	410-181527-13	CL29X28.D	07/30/2024 05:12
HD-QC1-0/1-1 DL	410-181527-13 DL	CL29X29.D	07/30/2024 05:35

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

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Lab File ID: CU14T01.D

BFB Injection Date: 06/14/2024

Instrument ID: 10193

BFB Injection Time: 17:48

Analysis Batch No.: 517601

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.5
75	30.0 - 60.0 % of mass 95	44.2
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	0.7 (0.7) 1
174	Greater than 50% of mass 95	91.9
175	5.0 - 9.0 % of mass 174	6.5 (7.1) 1
176	95.0 - 101.0 % of mass 174	90.6 (98.7) 1
177	5.0 - 9.0 % of mass 176	6.0 (6.6) 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 410-517601/3	CU14X02.D	06/14/2024	18:42
	IC 410-517601/4	CU14X03.D	06/14/2024	19:05
	IC 410-517601/5	CU14X04.D	06/14/2024	19:27
	IC 410-517601/6	CU14X05.D	06/14/2024	19:50
	IC 410-517601/7	CU14X06.D	06/14/2024	20:13
	IC 410-517601/8	CU14X07.D	06/14/2024	20:35
	IC 410-517601/9	CU14X08.D	06/14/2024	20:58
	IC 410-517601/13	CU14X12.D	06/14/2024	22:28
	IC 410-517601/14	CU14X13.D	06/14/2024	22:51
	IC 410-517601/15	CU14X14.D	06/14/2024	23:14
	IC 410-517601/16	CU14X15.D	06/14/2024	23:36
	IC 410-517601/17	CU14X16.D	06/14/2024	23:59
	ICIS 410-517601/18	CU14X17.D	06/15/2024	0:22
	IC 410-517601/19	CU14X18.D	06/15/2024	0:45
	ICV 410-517601/21	CU14X20.D	06/15/2024	1:30

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

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Lab File ID: CL29T01.D

BFB Injection Date: 07/29/2024

Instrument ID: 10193

BFB Injection Time: 18:56

Analysis Batch No.: 533656

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.2
75	30.0 - 60.0 % of mass 95	43.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.7 (0.8) 1
174	Greater than 50% of mass 95	86.6
175	5.0 - 9.0 % of mass 174	6.3 (7.3) 1
176	95.0 - 101.0 % of mass 174	84.3 (97.3) 1
177	5.0 - 9.0 % of mass 176	5.3 (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 410-533656/3	CL29X02.D	07/29/2024	19:33
	LCS 410-533656/4	CL29X03.D	07/29/2024	19:55
	MB 410-533656/6	CL29X05.D	07/29/2024	20:40
HD-QC1-0/1-2	410-181527-14	CL29X07.D	07/29/2024	21:24
HD-COD-SW-6-0/1-0	410-181527-1	CL29X13.D	07/29/2024	23:38
HD-COD-SW-7-0/1-0	410-181527-2	CL29X14.D	07/30/2024	0:00
HD-COD-SW-8-0/1-0	410-181527-3	CL29X15.D	07/30/2024	0:22
HD-COD-SW-9-0/1-0	410-181527-4	CL29X16.D	07/30/2024	0:45
HD-COD-SW-13-0/1-0	410-181527-5	CL29X17.D	07/30/2024	1:07
HD-COD-SW-15-0/1-0	410-181527-6	CL29X18.D	07/30/2024	1:29
HD-COD-SW-15-0/1-0 MS MS	410-181527-6 MS	CL29X19.D	07/30/2024	1:52
HD-COD-SW-15-0/1-0 MSD MSD	410-181527-6 MSD	CL29X20.D	07/30/2024	2:14
HD-COD-SW-16-0/1-0	410-181527-7	CL29X21.D	07/30/2024	2:36
HD-COD-SW-26-0/1-0	410-181527-9	CL29X22.D	07/30/2024	2:58
HD-COD-SW-27-0/1-0	410-181527-10	CL29X23.D	07/30/2024	3:21
HD-COD-SW-28-0/1-0	410-181527-11	CL29X24.D	07/30/2024	3:43
HD-COD-SW-29-0/1-0	410-181527-12	CL29X25.D	07/30/2024	4:05
HD-COD-SW-17-0/1-0	410-181527-8	CL29X26.D	07/30/2024	4:28
HD-COD-SW-17-0/1-0 DL	410-181527-8 DL	CL29X27.D	07/30/2024	4:50
HD-QC1-0/1-1	410-181527-13	CL29X28.D	07/30/2024	5:12
HD-QC1-0/1-1 DL	410-181527-13 DL	CL29X29.D	07/30/2024	5:35

FORM VIII

Job No.: 410-181527-1

Sample No.: ICIS 410-517601/18

Date Analyzed: 06/15/2024 00:22

Instrument ID: 10193

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

Lab File ID (Standard): CU14X17.D

Heated Purge: (Y/N) N

Calibration ID: 62906

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		188699	3.80	2282400	7.27	1791303	10.90
UPPER LIMIT		377398	4.30	4564800	7.77	3582606	11.40
LOWER LIMIT		94350	3.30	1141200	6.77	895652	10.40
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-517601/21		167301	3.80	2240698	7.27	1763975	10.90
CCVIS 410-533656/3		184327	3.79	2347413	7.26	1857206	10.90

TBAd10 = t-Butyl alcohol-d10 (IS)

FB = Fluorobenzene (IS)

CBZd5 = Chlorobenzene-d5 (IS)

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

Job No.: 410-181527-1

Sample No.: ICIS 410-517601/18

Date Analyzed: 06/15/2024 00:22

GC Column: R-624SilMS 30m

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration ID: 62906

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		1059823	12.85				
UPPER LIMIT		2119646	13.35				
LOWER LIMIT		529912	12.35				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-517601/21		1032999	12.85				
CCVIS 410-533656/3		1091740	12.84				

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.: 410-181527-1
Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-533656/3 Date Analyzed: 07/29/2024 19:33

Instrument ID: 10193 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): CL29X02.D Heated Purge: (Y/N) N

Calibration ID: 62906

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		184327	3.79	2347413	7.26	1857206	10.90
UPPER LIMIT		368654	4.29	4694826	7.76	3714412	11.40
LOWER LIMIT		92164	3.29	1173707	6.76	928603	10.40
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-533656/4		163461	3.78	2360269	7.26	1841071	10.90
MB 410-533656/6		155281	3.78	2293648	7.26	1800635	10.89
410-181527-14	HD-QC1-0/1-2	159020	3.79	2282955	7.26	1784249	10.89
410-181527-1	HD-COD-SW-6-0/1-0	156385	3.78	2152034	7.26	1695882	10.89
410-181527-2	HD-COD-SW-7-0/1-0	164187	3.78	2183131	7.26	1701567	10.90
410-181527-3	HD-COD-SW-8-0/1-0	160945	3.79	2134684	7.26	1699881	10.90
410-181527-4	HD-COD-SW-9-0/1-0	150886	3.78	2146263	7.26	1683344	10.89
410-181527-5	HD-COD-SW-13-0/1-0	150975	3.79	2133757	7.26	1671625	10.90
410-181527-6	HD-COD-SW-15-0/1-0	155026	3.78	2091622	7.26	1647310	10.90
410-181527-6 MS	HD-COD-SW-15-0/1-0 MS MS	154419	3.78	2152328	7.26	1695402	10.89
410-181527-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	153478	3.77	2191837	7.26	1729492	10.89
410-181527-7	HD-COD-SW-16-0/1-0	157288	3.79	2110168	7.26	1656353	10.90
410-181527-9	HD-COD-SW-26-0/1-0	153134	3.78	2133142	7.26	1687653	10.90
410-181527-10	HD-COD-SW-27-0/1-0	147544	3.78	2112224	7.26	1659797	10.89
410-181527-11	HD-COD-SW-28-0/1-0	122677	3.78	2081269	7.26	1628760	10.89
410-181527-12	HD-COD-SW-29-0/1-0	147797	3.79	2087325	7.26	1649359	10.90
410-181527-8	HD-COD-SW-17-0/1-0	165973	3.78	2100560	7.26	1712804	10.90
410-181527-8 DL	HD-COD-SW-17-0/1-0 DL	139071	3.78	2059653	7.26	1637959	10.90
410-181527-13	HD-QC1-0/1-1	143562	3.79	2042379	7.26	1664244	10.90
410-181527-13 DL	HD-QC1-0/1-1 DL	151814	3.78	2002310	7.26	1613654	10.90

TBAd10 = t-Butyl alcohol-d10 (IS)

TBAd10 = t-Butyl alcohol-d10 (IS)

FB = Fluorobenzene (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.: 410-181527-1
Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-533656/3 Date Analyzed: 07/29/2024 19:33

Instrument ID: 10193 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): CL29X02.D Heated Purge: (Y/N) N

Calibration ID: 62906

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1091740	12.84				
UPPER LIMIT		2183480	13.34				
LOWER LIMIT		545870	12.34				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-533656/4		1055377	12.83				
MB 410-533656/6		994502	12.83				
410-181527-14	HD-QC1-0/1-2	1005148	12.83				
410-181527-1	HD-COD-SW-6-0/1-0	948614	12.83				
410-181527-2	HD-COD-SW-7-0/1-0	971709	12.83				
410-181527-3	HD-COD-SW-8-0/1-0	950249	12.84				
410-181527-4	HD-COD-SW-9-0/1-0	947645	12.83				
410-181527-5	HD-COD-SW-13-0/1-0	947211	12.84				
410-181527-6	HD-COD-SW-15-0/1-0	924626	12.84				
410-181527-6 MS	HD-COD-SW-15-0/1-0 MS MS	970665	12.83				
410-181527-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	995238	12.83				
410-181527-7	HD-COD-SW-16-0/1-0	916765	12.84				
410-181527-9	HD-COD-SW-26-0/1-0	944833	12.84				
410-181527-10	HD-COD-SW-27-0/1-0	933968	12.84				
410-181527-11	HD-COD-SW-28-0/1-0	908495	12.84				
410-181527-12	HD-COD-SW-29-0/1-0	929321	12.83				
410-181527-8	HD-COD-SW-17-0/1-0	951355	12.84				
410-181527-8 DL	HD-COD-SW-17-0/1-0 DL	901133	12.84				
410-181527-13	HD-QC1-0/1-1	921987	12.83				
410-181527-13 DL	HD-QC1-0/1-1 DL	879123	12.83				

DCBd4 = 1,4-Dichlorobenzene-d4

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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0

Lab Sample ID: 410-181527-1

Matrix: Water

Lab File ID: CL29X13.D

Analysis Method: 8260D

Date Collected: 07/25/2024 10:30

Sample wt/vol: 25 (mL)

Date Analyzed: 07/29/2024 23:38

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.7	J	5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.086	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-181527-1

Matrix: Water Lab File ID: CL29X13.D

Analysis Method: 8260D Date Collected: 07/25/2024 10:30

Sample wt/vol: 25 (mL) Date Analyzed: 07/29/2024 23:38

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 533656 Units: ug/L

Preparation Batch No.: _____ Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.11	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		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\10193\20240729-120642.b\CL29X13.D
 Lims ID: 410-181527-A-1
 Client ID: HD-COD-SW-6-0/1-0
 Sample Type: Client
 Inject. Date: 29-Jul-2024 23:38:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-014
 Misc. Info.: 410-181527-A-1
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 01:19:32 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:33:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.988				ND	7
6 Vinyl chloride	62		2.091				ND	7
9 Bromomethane	94		2.402				ND	7
10 Chloroethane	64		2.439				ND	
18 1,1-Dichloroethene	96		3.195				ND	
20 Acetone	43	3.219	3.213	0.006	99	13046	1.68	
25 Carbon disulfide	76		3.445				ND	7
30 Methylene Chloride	84		3.774				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.780	3.786	-0.006	97	156385	50.0	
34 Methyl tert-butyl ether	73		4.128				ND	7
35 trans-1,2-Dichloroethene	96		4.140				ND	
37 1,1-Dichloroethane	63		4.792				ND	
42 2-Butanone (MEK)	43		5.609				ND	7
43 cis-1,2-Dichloroethene	96	5.633	5.640	-0.007	77	5704	0.0864	
48 Chlorobromomethane	128		5.975				ND	
50 Chloroform	83	6.133	6.133	0.000	91	6803	0.0636	
\$ 54 Dibromofluoromethane (Surr)	113	6.347	6.359	-0.012	94	523146	10.0	
53 1,1,1-Trichloroethane	97		6.359				ND	
56 Carbon tetrachloride	117		6.566				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.810	6.816	-0.006	99	111841	10.5	
60 Benzene	78		6.841				ND	7
61 1,2-Dichloroethane	62		6.920				ND	
* 65 Fluorobenzene (IS)	96	7.255	7.261	-0.006	99	2152034	10.0	
68 Trichloroethene	95	7.743	7.749	-0.006	95	7387	0.1118	
70 1,2-Dichloropropane	63		8.090				ND	
76 Dichlorobromomethane	83		8.450				ND	7
80 cis-1,3-Dichloropropene	75		9.017				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2190417	10.1	
84 Toluene	92	9.431	9.432	-0.001	97	11741	0.0729	
85 trans-1,3-Dichloropropene	75		9.718				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.938				ND	
88 Tetrachloroethene	166	10.011	10.017	-0.006	91	2184	0.0273	
106 2-Hexanone	43		10.175				ND	7
108 Chlorodibromomethane	129		10.328				ND	
110 Ethylene Dibromide	107		10.437				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.889	10.895	-0.007	83	1695882	10.0	
113 Chlorobenzene	112		10.919				ND	
114 1,1,1,2-Tetrachloroethane	131		11.010				ND	
115 Ethylbenzene	91		11.017				ND	7
116 m-Xylene & p-Xylene	106	11.138	11.138	0.000	98	6070	0.0469	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.480				ND	7
119 Styrene	104		11.492				ND	7
120 Bromoform	173		11.651				ND	7
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	96	773899	9.47	
126 1,1,2,2-Tetrachloroethane	83		12.047				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.833	12.839	-0.006	93	948614	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 30-Jul-2024 14:33:29

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X13.D

Injection Date: 29-Jul-2024 23:38:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-A-1

Lab Sample ID: 410-181527-1

Worklist Smp#: 14

Client ID: HD-COD-SW-6-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

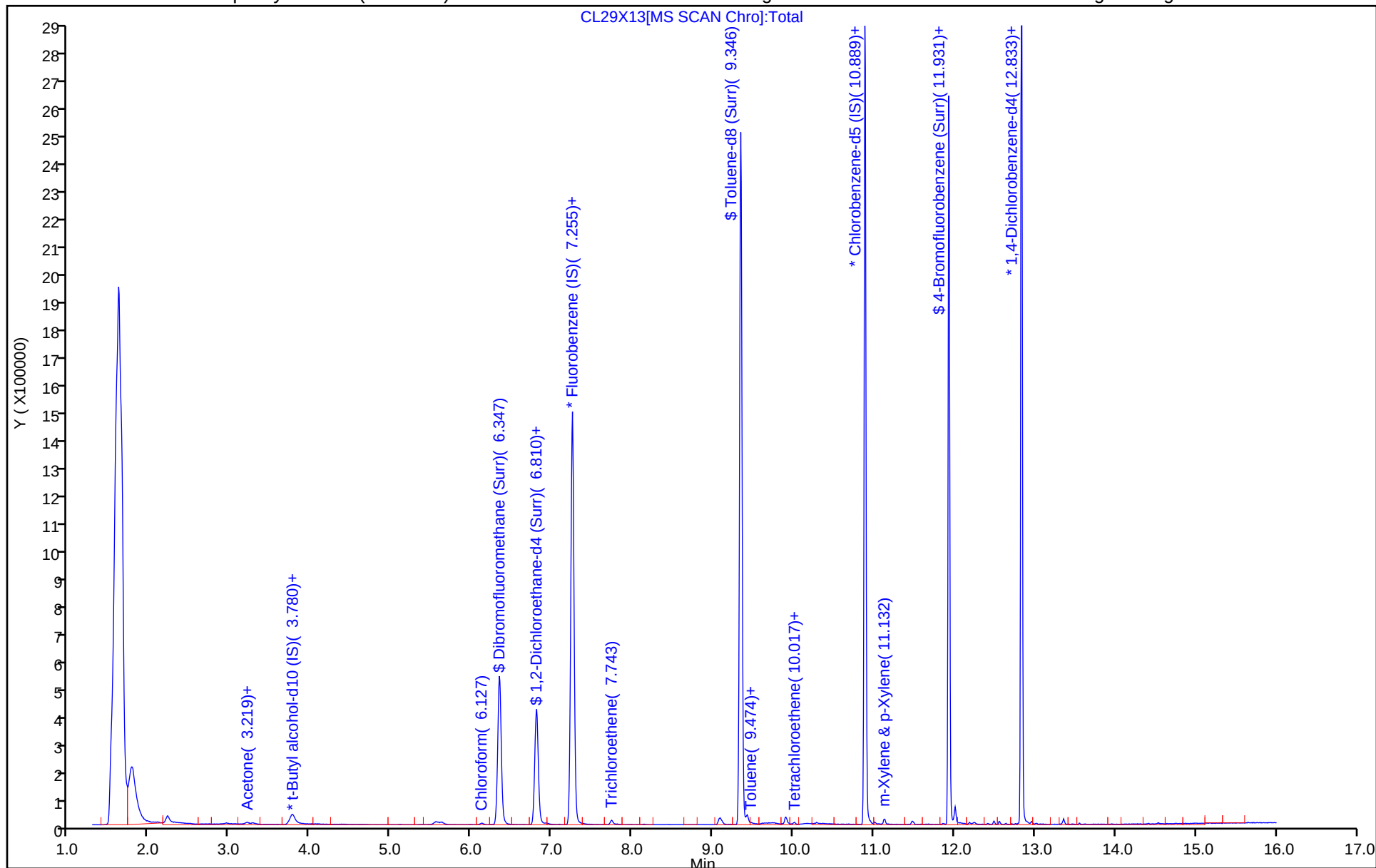
ALS Bottle#: 13

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X13.D
Lims ID: 410-181527-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 29-Jul-2024 23:38:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-014
Misc. Info.: 410-181527-A-1
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 01:19:32 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:33:29

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.0	100.38
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.90
\$ 83 Toluene-d8 (Surr)	10.0	10.1	100.80
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.47	94.74

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X13.D

Injection Date: 29-Jul-2024 23:38:30

Instrument ID: 10193

Lims ID: 410-181527-A-1

Lab Sample ID: 410-181527-1

Client ID: HD-COD-SW-6-0/1-0

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

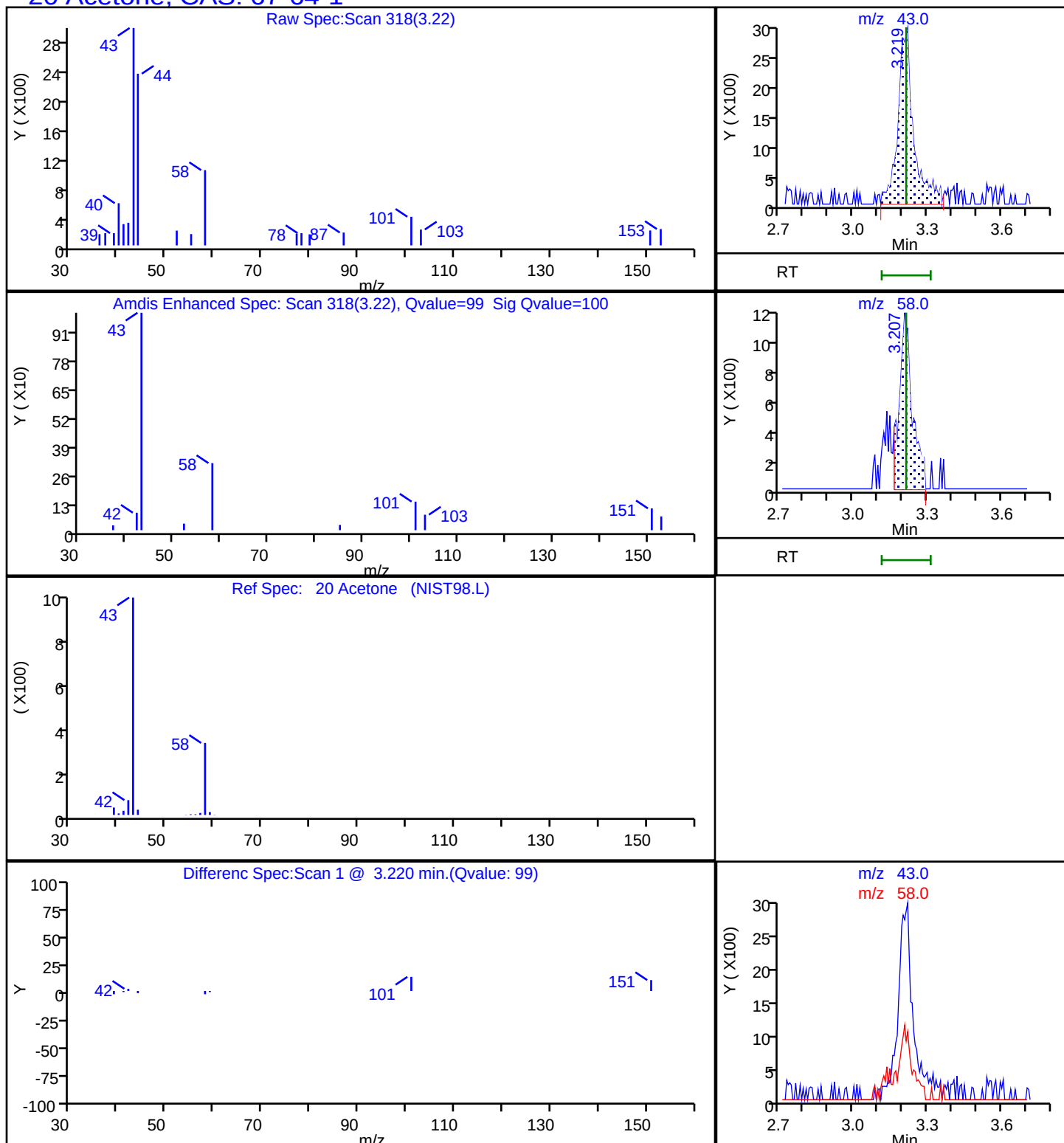
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

20 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X13.D

Injection Date: 29-Jul-2024 23:38:30

Instrument ID: 10193

Lims ID: 410-181527-A-1

Lab Sample ID: 410-181527-1

Client ID: HD-COD-SW-6-0/1-0

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

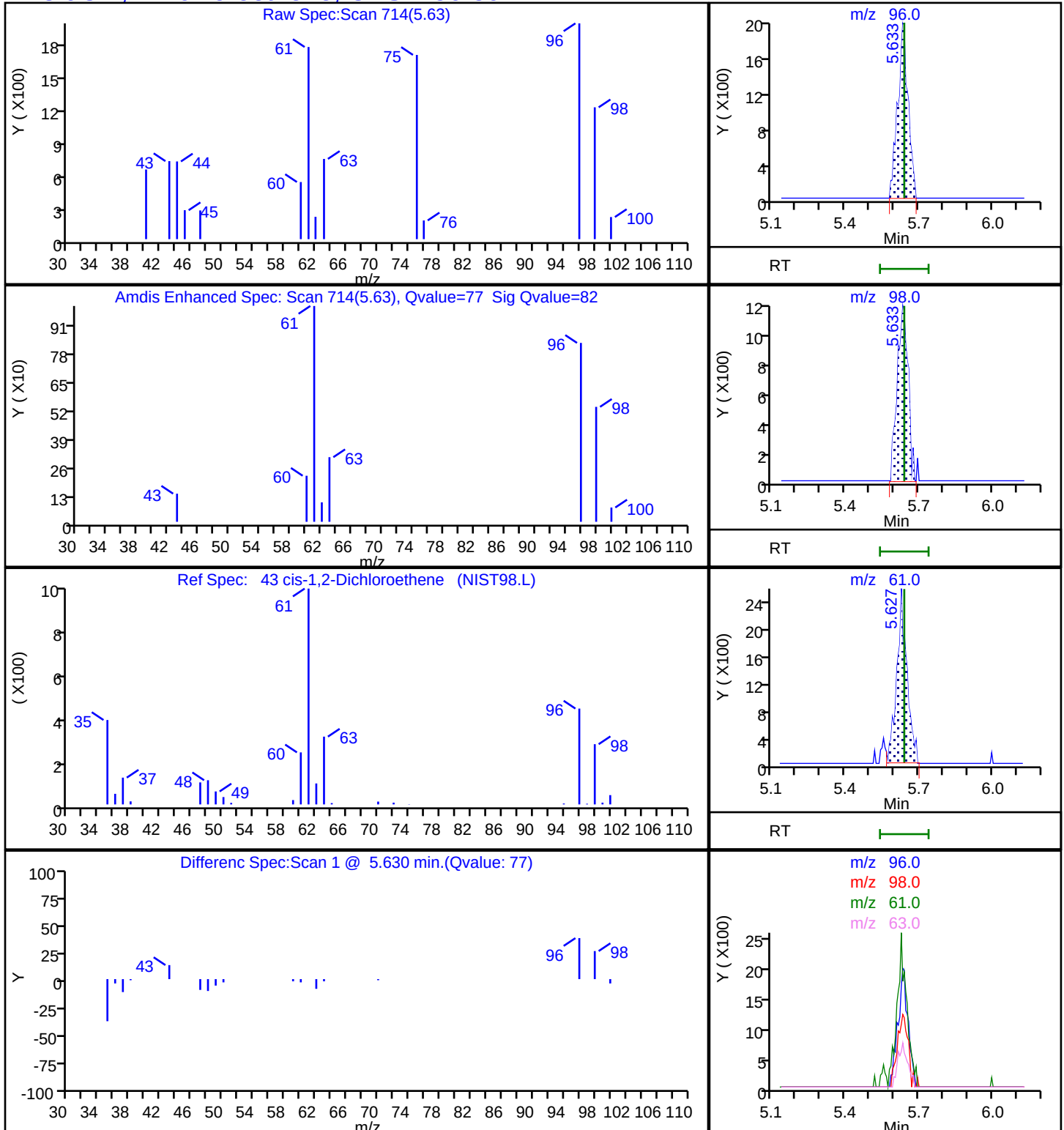
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X13.D

Injection Date: 29-Jul-2024 23:38:30

Instrument ID: 10193

Lims ID: 410-181527-A-1

Lab Sample ID: 410-181527-1

Client ID: HD-COD-SW-6-0/1-0

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

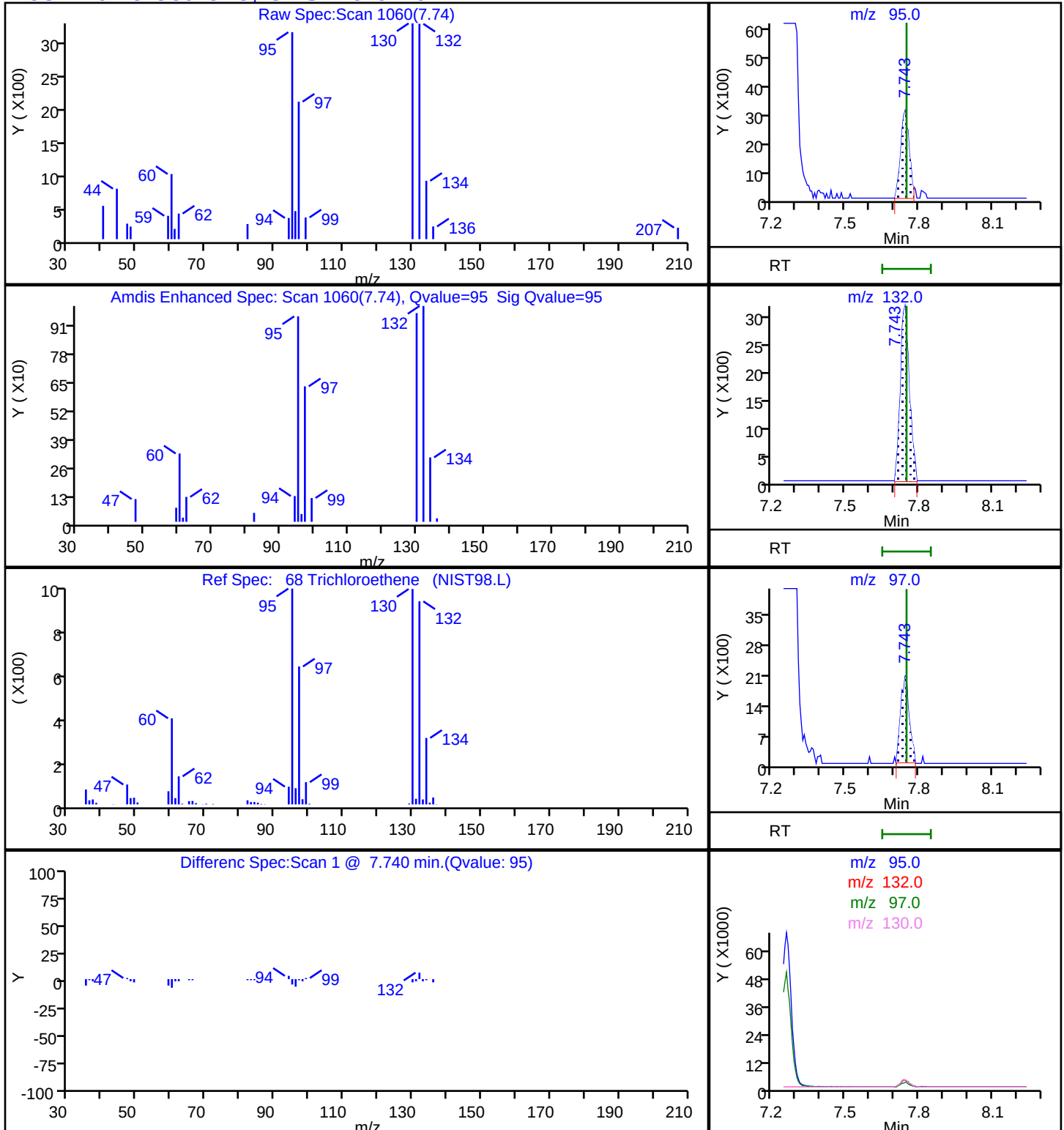
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

68 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0

Lab Sample ID: 410-181527-2

Matrix: Water

Lab File ID: CL29X14.D

Analysis Method: 8260D

Date Collected: 07/25/2024 11:15

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 00:00

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.8	J	5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.14	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.10	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0

Lab Sample ID: 410-181527-2

Matrix: Water

Lab File ID: CL29X14.D

Analysis Method: 8260D

Date Collected: 07/25/2024 11:15

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 00:00

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.14	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\10193\20240729-120642.b\CL29X14.D
 Lims ID: 410-181527-A-2
 Client ID: HD-COD-SW-7-0/1-0
 Sample Type: Client
 Inject. Date: 30-Jul-2024 00:00:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-015
 Misc. Info.: 410-181527-A-2
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 01:19:32 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:34:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.988				ND	7
6 Vinyl chloride	62		2.091				ND	7
9 Bromomethane	94		2.402				ND	7
10 Chloroethane	64		2.439				ND	
18 1,1-Dichloroethene	96		3.195				ND	
20 Acetone	43	3.219	3.213	0.006	100	14589	1.79	
25 Carbon disulfide	76		3.445				ND	7
30 Methylene Chloride	84		3.774				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.780	3.786	-0.006	97	164187	50.0	
34 Methyl tert-butyl ether	73		4.128				ND	
35 trans-1,2-Dichloroethene	96		4.140				ND	
37 1,1-Dichloroethane	63		4.792				ND	
42 2-Butanone (MEK)	43	5.615	5.609	0.006	33	4484	0.3001	
43 cis-1,2-Dichloroethene	96	5.640	5.640	0.000	76	6898	0.1030	
48 Chlorobromomethane	128		5.975				ND	
50 Chloroform	83	6.133	6.133	0.000	92	15659	0.1444	
\$ 54 Dibromofluoromethane (Surr)	113	6.353	6.359	-0.006	94	523742	9.91	
53 1,1,1-Trichloroethane	97		6.359				ND	
56 Carbon tetrachloride	117		6.566				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.810	6.816	-0.006	99	110106	10.2	
60 Benzene	78		6.841				ND	7
61 1,2-Dichloroethane	62		6.920				ND	
* 65 Fluorobenzene (IS)	96	7.261	7.261	0.000	99	2183131	10.0	
68 Trichloroethene	95	7.743	7.749	-0.006	93	9386	0.1400	
70 1,2-Dichloropropane	63		8.090				ND	
76 Dichlorobromomethane	83		8.450				ND	7
80 cis-1,3-Dichloropropene	75		9.017				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2203389	10.1	
84 Toluene	92	9.432	9.432	0.000	97	9510	0.0588	
85 trans-1,3-Dichloropropene	75		9.718				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.938				ND	
88 Tetrachloroethene	166	10.011	10.017	-0.006	92	5257	0.0655	
106 2-Hexanone	43		10.175				ND	7
108 Chlorodibromomethane	129		10.328				ND	7
110 Ethylene Dibromide	107		10.437				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.895	10.895	0.000	83	1701567	10.0	
113 Chlorobenzene	112		10.919				ND	
114 1,1,1,2-Tetrachloroethane	131		11.010				ND	
115 Ethylbenzene	91		11.017				ND	7
116 m-Xylene & p-Xylene	106		11.138				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.480				ND	7
119 Styrene	104		11.492				ND	7
120 Bromoform	173		11.651				ND	7
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	96	776699	9.48	
126 1,1,2,2-Tetrachloroethane	83		12.047				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.833	12.839	-0.006	93	971709	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 30-Jul-2024 14:34:17

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X14.D

Injection Date: 30-Jul-2024 00:00:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-A-2

Lab Sample ID: 410-181527-2

Worklist Smp#: 15

Client ID: HD-COD-SW-7-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

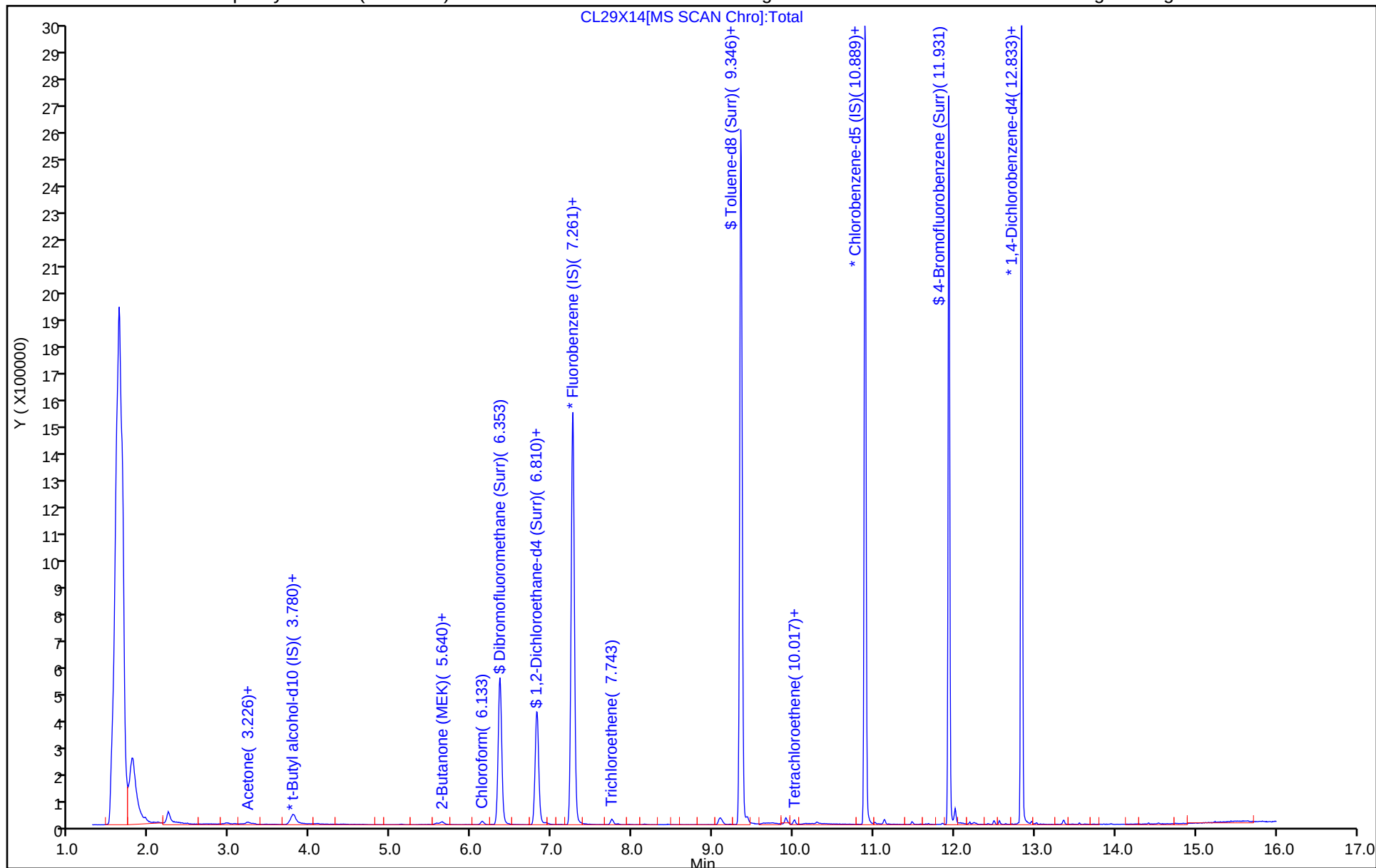
ALS Bottle#: 14

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X14.D
Lims ID: 410-181527-A-2
Client ID: HD-COD-SW-7-0/1-0
Sample Type: Client
Inject. Date: 30-Jul-2024 00:00:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-015
Misc. Info.: 410-181527-A-2
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 01:19:32 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:34:16

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.91	99.07
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.80
\$ 83 Toluene-d8 (Surr)	10.0	10.1	101.06
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.48	94.77

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X14.D

Injection Date: 30-Jul-2024 00:00:30

Instrument ID: 10193

Lims ID: 410-181527-A-2

Lab Sample ID: 410-181527-2

Client ID: HD-COD-SW-7-0/1-0

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

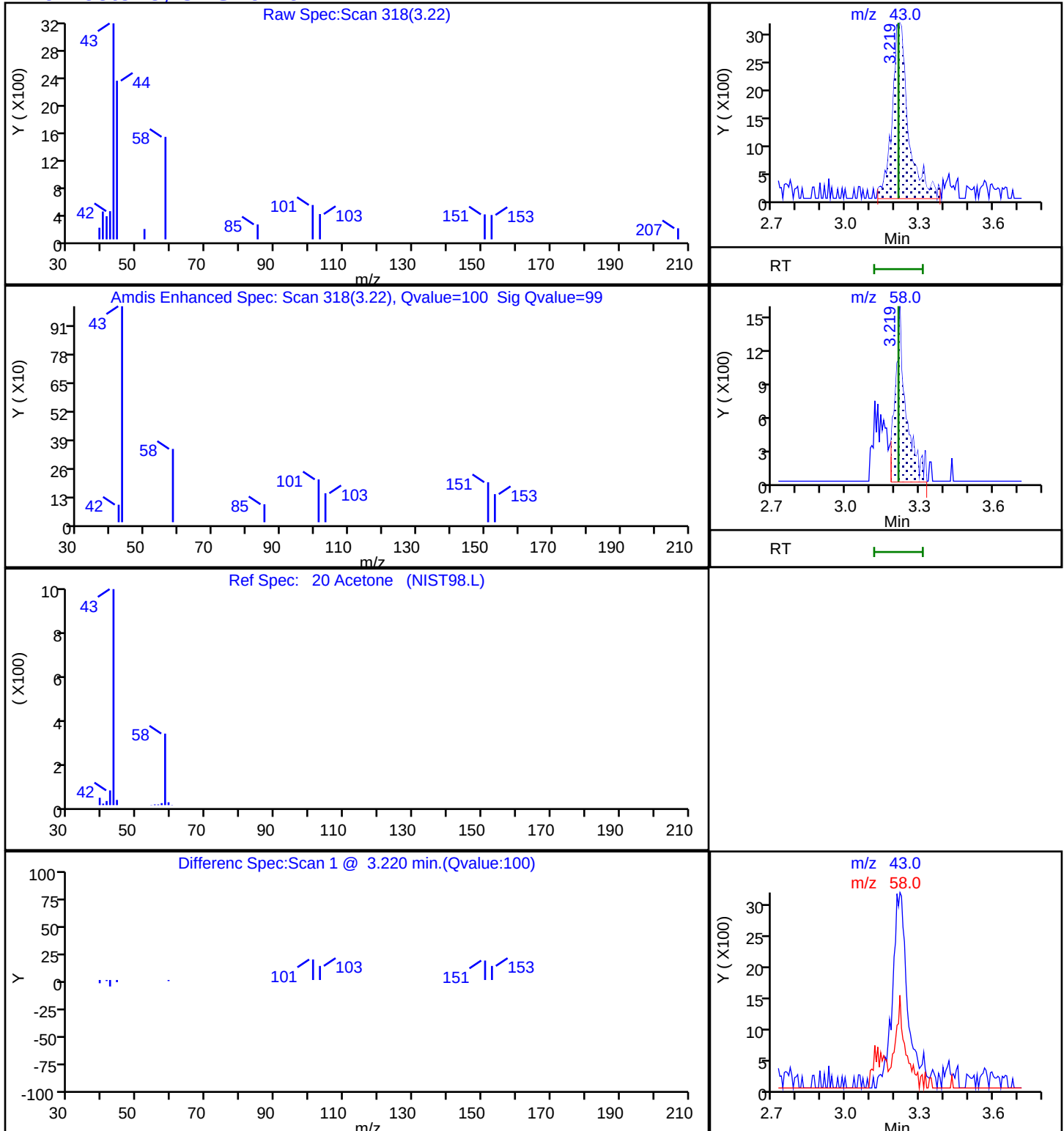
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

20 Acetone, CAS: 67-64-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X14.D

Injection Date: 30-Jul-2024 00:00:30

Instrument ID: 10193

Lims ID: 410-181527-A-2

Lab Sample ID: 410-181527-2

Client ID: HD-COD-SW-7-0/1-0

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

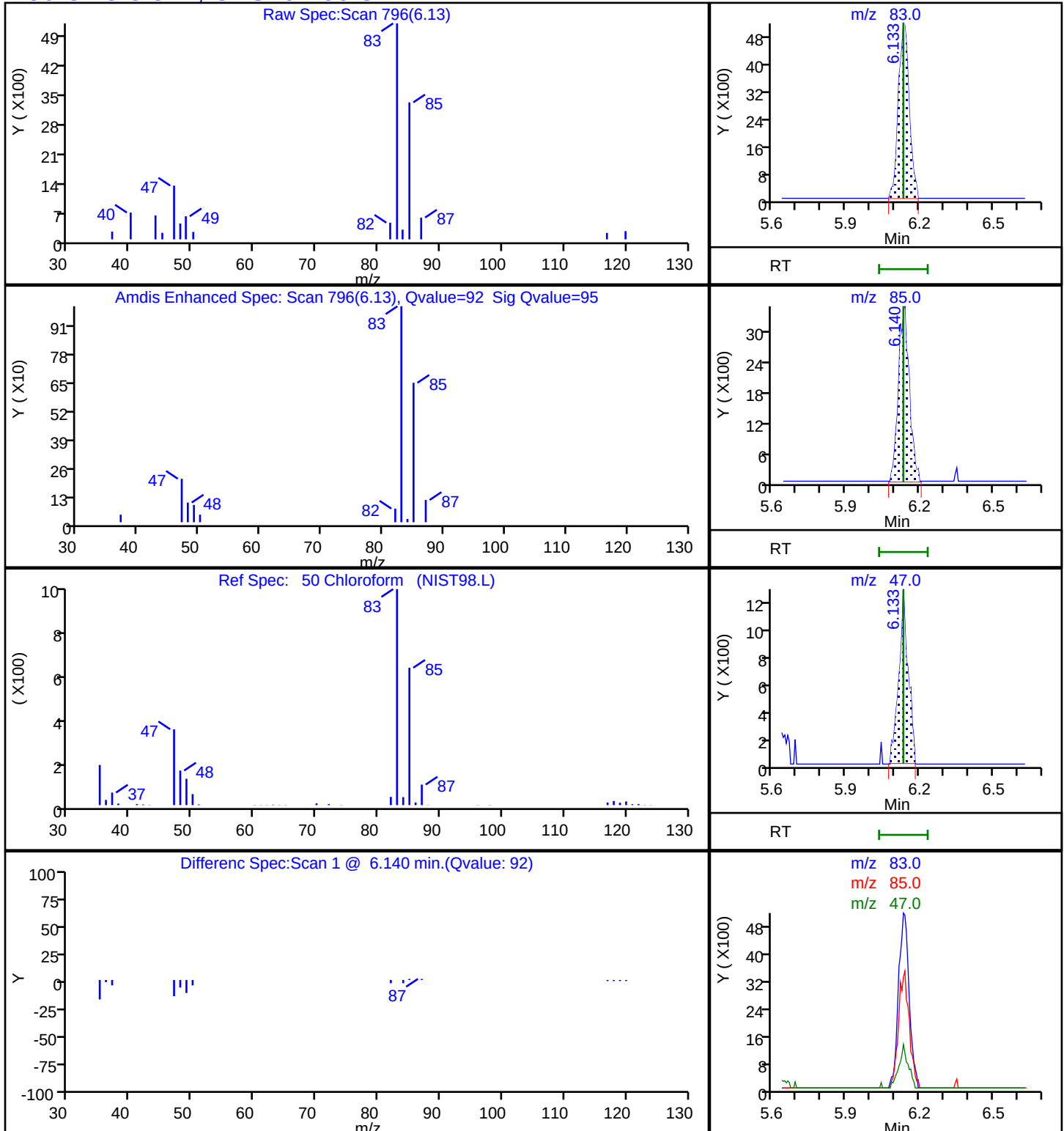
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

50 Chloroform, CAS: 67-66-3

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X14.D

Injection Date: 30-Jul-2024 00:00:30

Instrument ID: 10193

Lims ID: 410-181527-A-2

Lab Sample ID: 410-181527-2

Client ID: HD-COD-SW-7-0/1-0

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

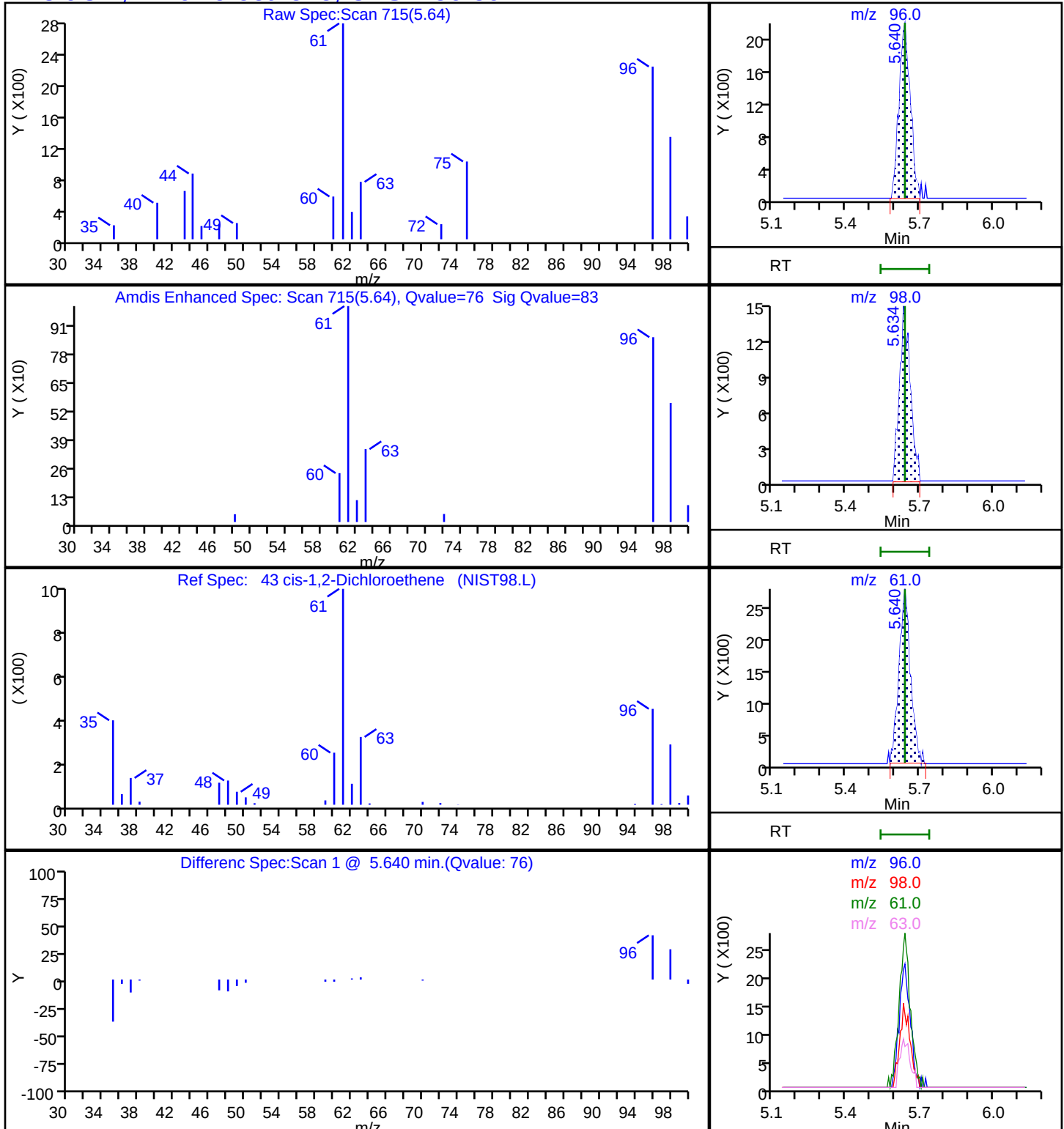
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X14.D

Injection Date: 30-Jul-2024 00:00:30

Instrument ID: 10193

Lims ID: 410-181527-A-2

Lab Sample ID: 410-181527-2

Client ID: HD-COD-SW-7-0/1-0

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

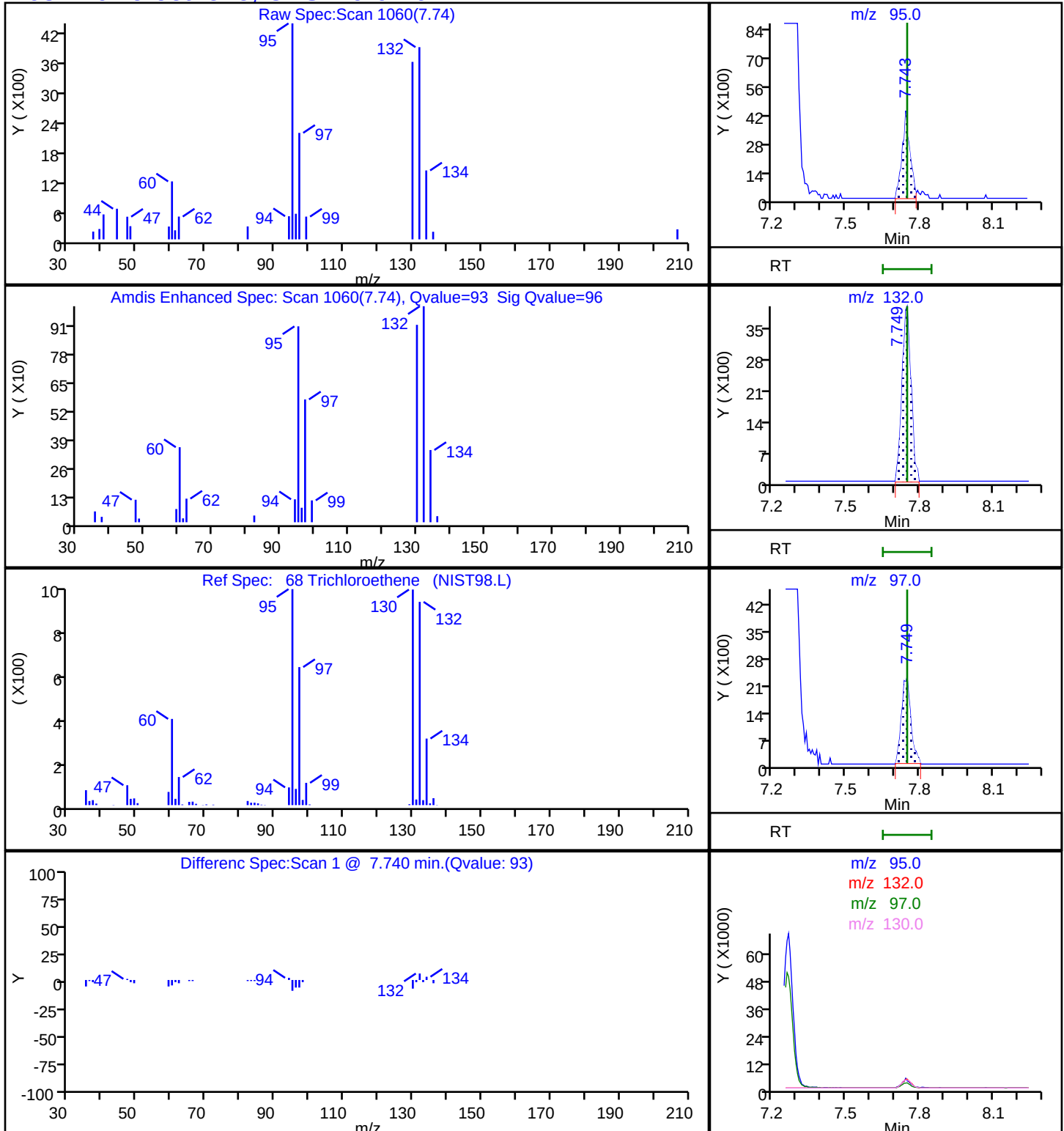
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 30m

MS Quad

68 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0

Lab Sample ID: 410-181527-3

Matrix: Water

Lab File ID: CL29X15.D

Analysis Method: 8260D

Date Collected: 07/25/2024 09:10

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 00:22

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.6	J	5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.094	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.17	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.94		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0

Lab Sample ID: 410-181527-3

Matrix: Water

Lab File ID: CL29X15.D

Analysis Method: 8260D

Date Collected: 07/25/2024 09:10

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 00:22

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.22	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X15.D
 Lims ID: 410-181527-A-3
 Client ID: HD-COD-SW-8-0/1-0
 Sample Type: Client
 Inject. Date: 30-Jul-2024 00:22:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-016
 Misc. Info.: 410-181527-A-3
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 01:19:32 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:35:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.988				ND	7
6 Vinyl chloride	62		2.091				ND	7
9 Bromomethane	94		2.402				ND	7
10 Chloroethane	64		2.439				ND	
18 1,1-Dichloroethene	96		3.195				ND	
20 Acetone	43	3.219	3.213	0.006	96	12474	1.56	
25 Carbon disulfide	76		3.445				ND	7
30 Methylene Chloride	84		3.774				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.792	3.786	0.006	97	160945	50.0	
34 Methyl tert-butyl ether	73		4.128				ND	7
35 trans-1,2-Dichloroethene	96		4.140				ND	
37 1,1-Dichloroethane	63		4.792				ND	7
42 2-Butanone (MEK)	43		5.609				ND	7
43 cis-1,2-Dichloroethene	96	5.646	5.640	0.006	74	11141	0.1702	
48 Chlorobromomethane	128		5.975				ND	
50 Chloroform	83	6.140	6.133	0.007	92	10017	0.0944	
\$ 54 Dibromofluoromethane (Surr)	113	6.353	6.359	-0.006	94	517004	10.0	
53 1,1,1-Trichloroethane	97	6.359	6.359	0.000	45	5498	0.0621	
56 Carbon tetrachloride	117		6.566				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.816	6.816	0.000	99	109146	10.3	
60 Benzene	78		6.841				ND	7
61 1,2-Dichloroethane	62		6.920				ND	
* 65 Fluorobenzene (IS)	96	7.261	7.261	0.000	100	2134684	10.0	
68 Trichloroethene	95	7.749	7.749	0.000	95	14144	0.2158	
70 1,2-Dichloropropane	63		8.090				ND	
76 Dichlorobromomethane	83		8.450				ND	7
80 cis-1,3-Dichloropropene	75		9.017				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2142395	9.84	
84 Toluene	92	9.426	9.432	-0.006	97	9483	0.0587	
85 trans-1,3-Dichloropropene	75		9.718				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.938				ND	
88 Tetrachloroethene	166	10.011	10.017	-0.006	97	75437	0.9408	
106 2-Hexanone	43		10.175				ND	7
108 Chlorodibromomethane	129		10.328				ND	
110 Ethylene Dibromide	107		10.437				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.895	10.895	0.000	83	1699881	10.0	
113 Chlorobenzene	112		10.919				ND	
114 1,1,1,2-Tetrachloroethane	131		11.010				ND	
115 Ethylbenzene	91		11.017				ND	7
116 m-Xylene & p-Xylene	106	11.133	11.138	-0.005	97	5639	0.0434	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.480				ND	7
119 Styrene	104		11.492				ND	7
120 Bromoform	173		11.651				ND	7
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	96	766226	9.36	
126 1,1,2,2-Tetrachloroethane	83		12.047				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.840	12.839	0.001	93	950249	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 30-Jul-2024 14:35:04

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X15.D

Injection Date: 30-Jul-2024 00:22:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-A-3

Lab Sample ID: 410-181527-3

Worklist Smp#: 16

Client ID: HD-COD-SW-8-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

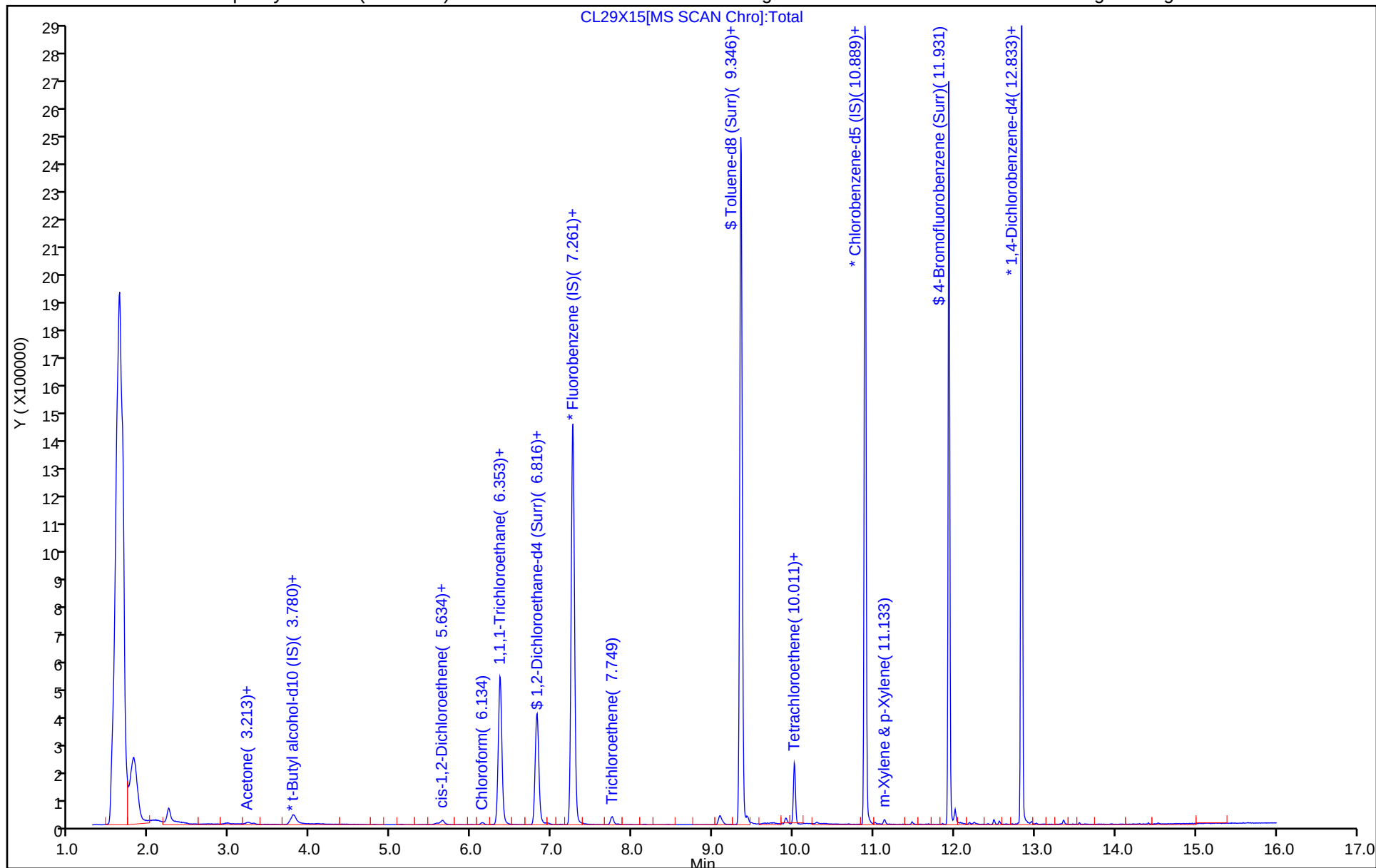
ALS Bottle#: 15

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X15.D
Lims ID: 410-181527-A-3
Client ID: HD-COD-SW-8-0/1-0
Sample Type: Client
Inject. Date: 30-Jul-2024 00:22:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-016
Misc. Info.: 410-181527-A-3
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 01:19:32 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:35:04

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.0	100.01
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.20
\$ 83 Toluene-d8 (Surr)	10.0	9.84	98.36
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.36	93.58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X15.D

Injection Date: 30-Jul-2024 00:22:30

Instrument ID: 10193

Lims ID: 410-181527-A-3

Lab Sample ID: 410-181527-3

Client ID: HD-COD-SW-8-0/1-0

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

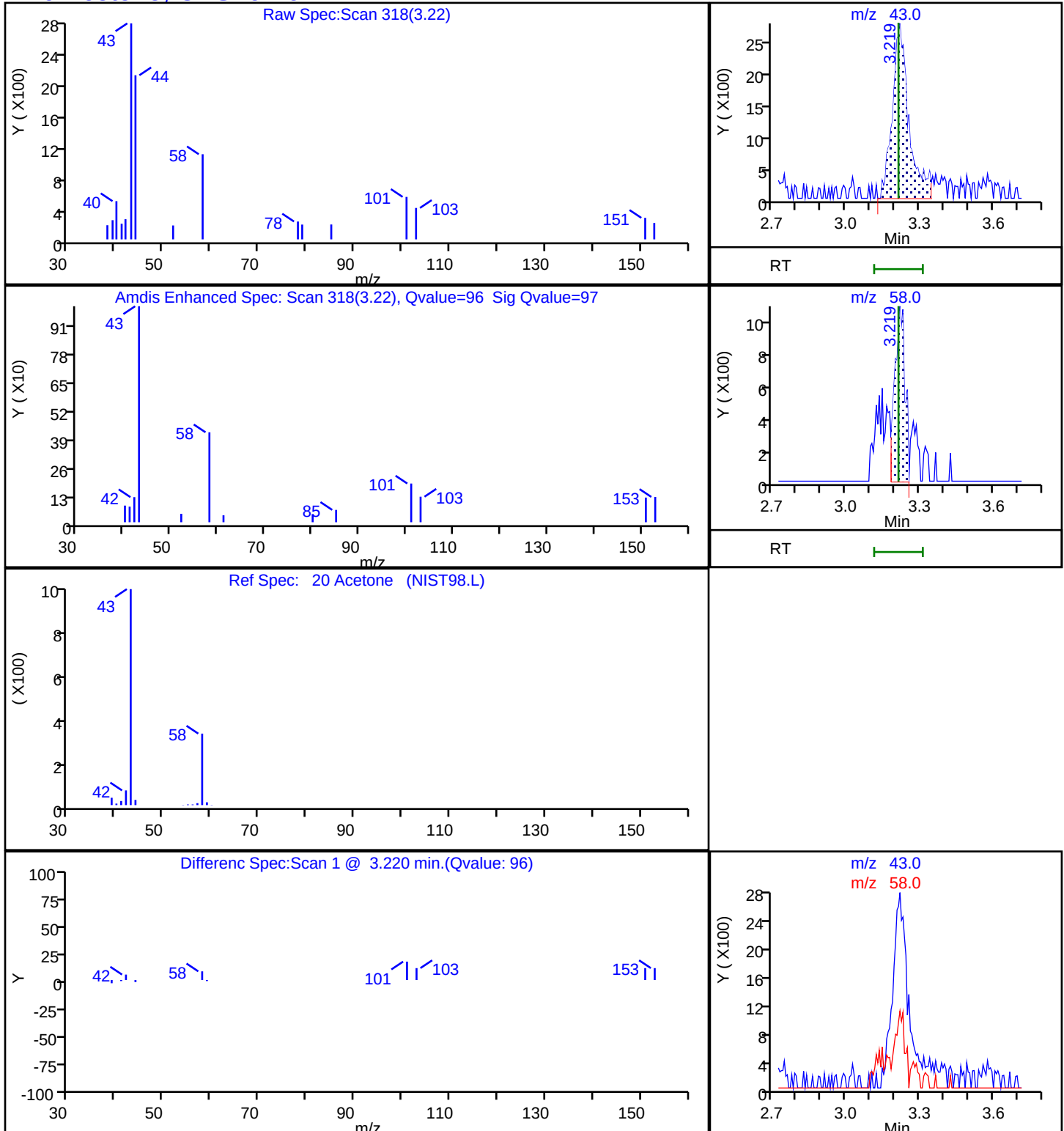
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

20 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X15.D

Injection Date: 30-Jul-2024 00:22:30

Instrument ID: 10193

Lims ID: 410-181527-A-3

Lab Sample ID: 410-181527-3

Client ID: HD-COD-SW-8-0/1-0

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 25.000 mL

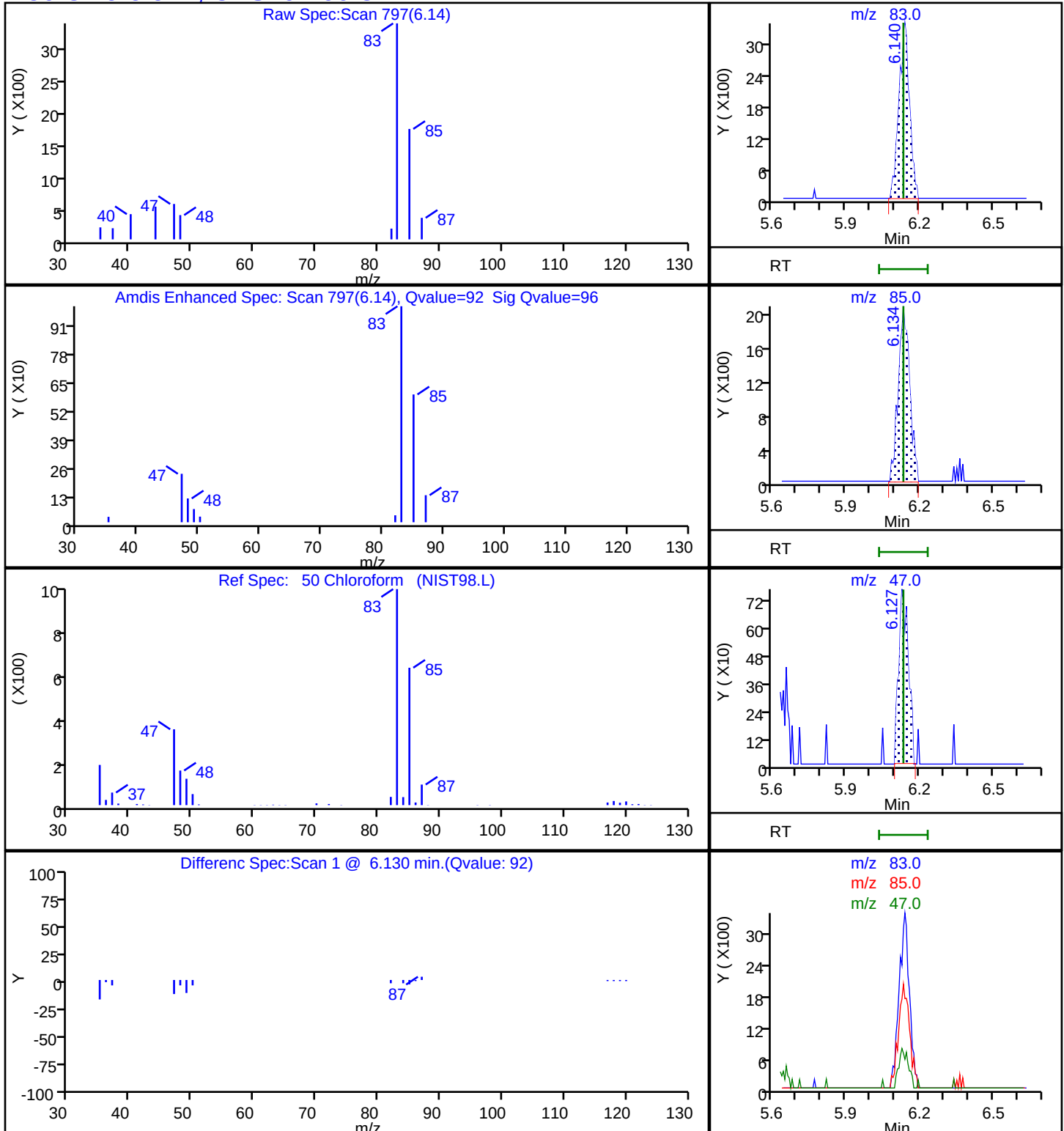
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X15.D

Injection Date: 30-Jul-2024 00:22:30

Instrument ID: 10193

Lims ID: 410-181527-A-3

Lab Sample ID: 410-181527-3

Client ID: HD-COD-SW-8-0/1-0

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 25.000 mL

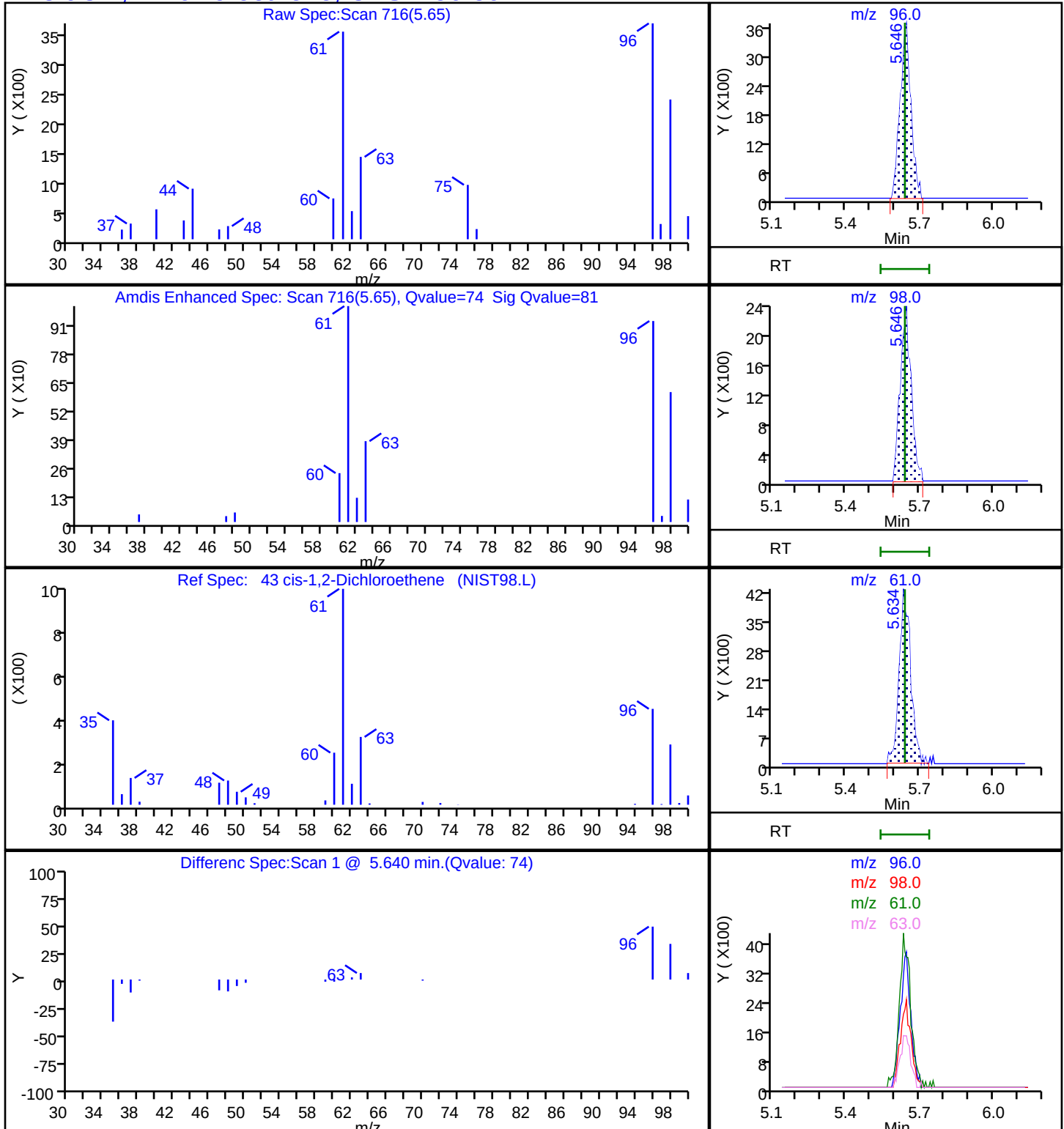
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X15.D

Injection Date: 30-Jul-2024 00:22:30

Instrument ID: 10193

Lims ID: 410-181527-A-3

Lab Sample ID: 410-181527-3

Client ID: HD-COD-SW-8-0/1-0

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 25.000 mL

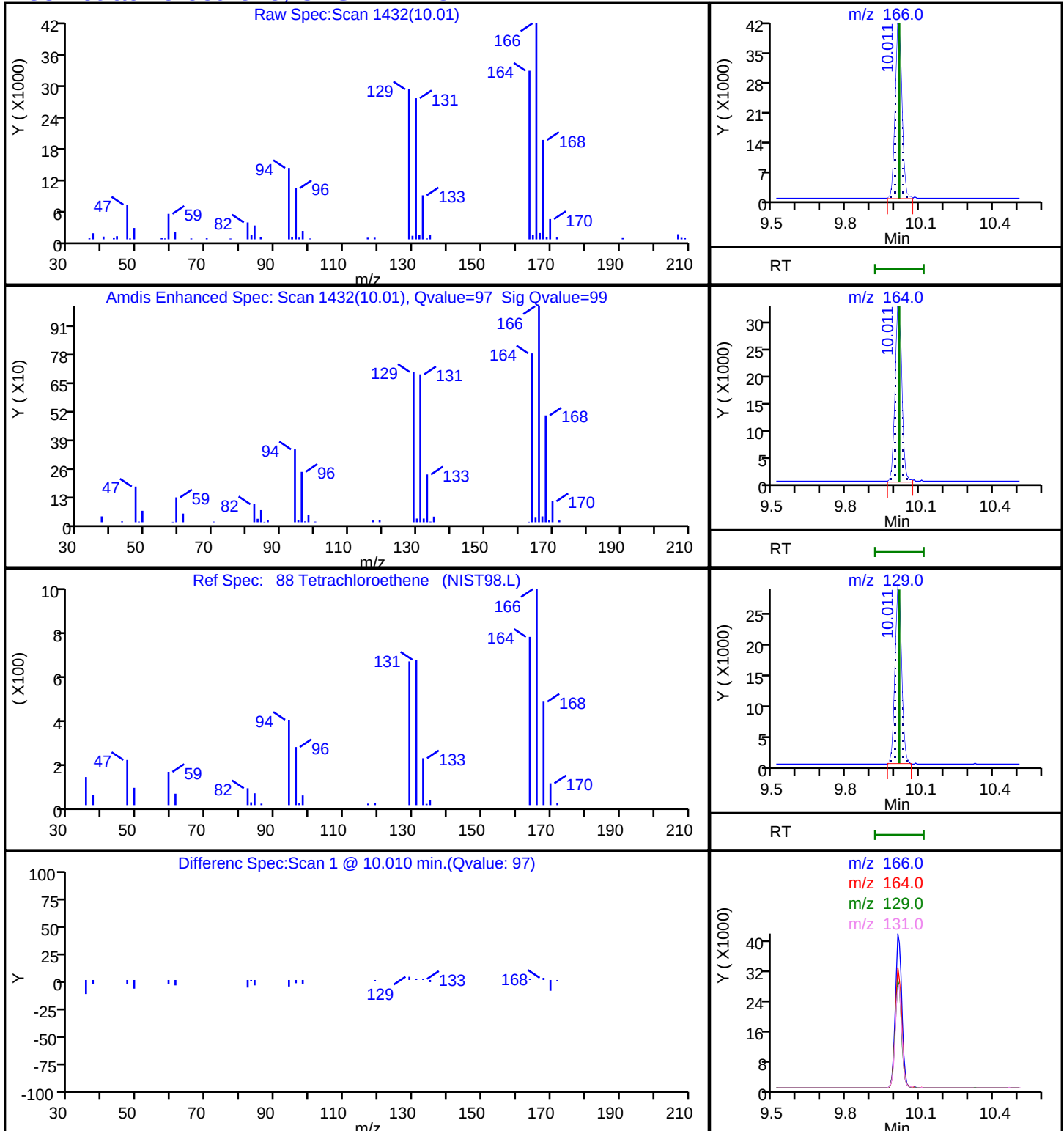
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 30m

MS Quad

88 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X15.D

Injection Date: 30-Jul-2024 00:22:30

Instrument ID: 10193

Lims ID: 410-181527-A-3

Lab Sample ID: 410-181527-3

Client ID: HD-COD-SW-8-0/1-0

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 25.000 mL

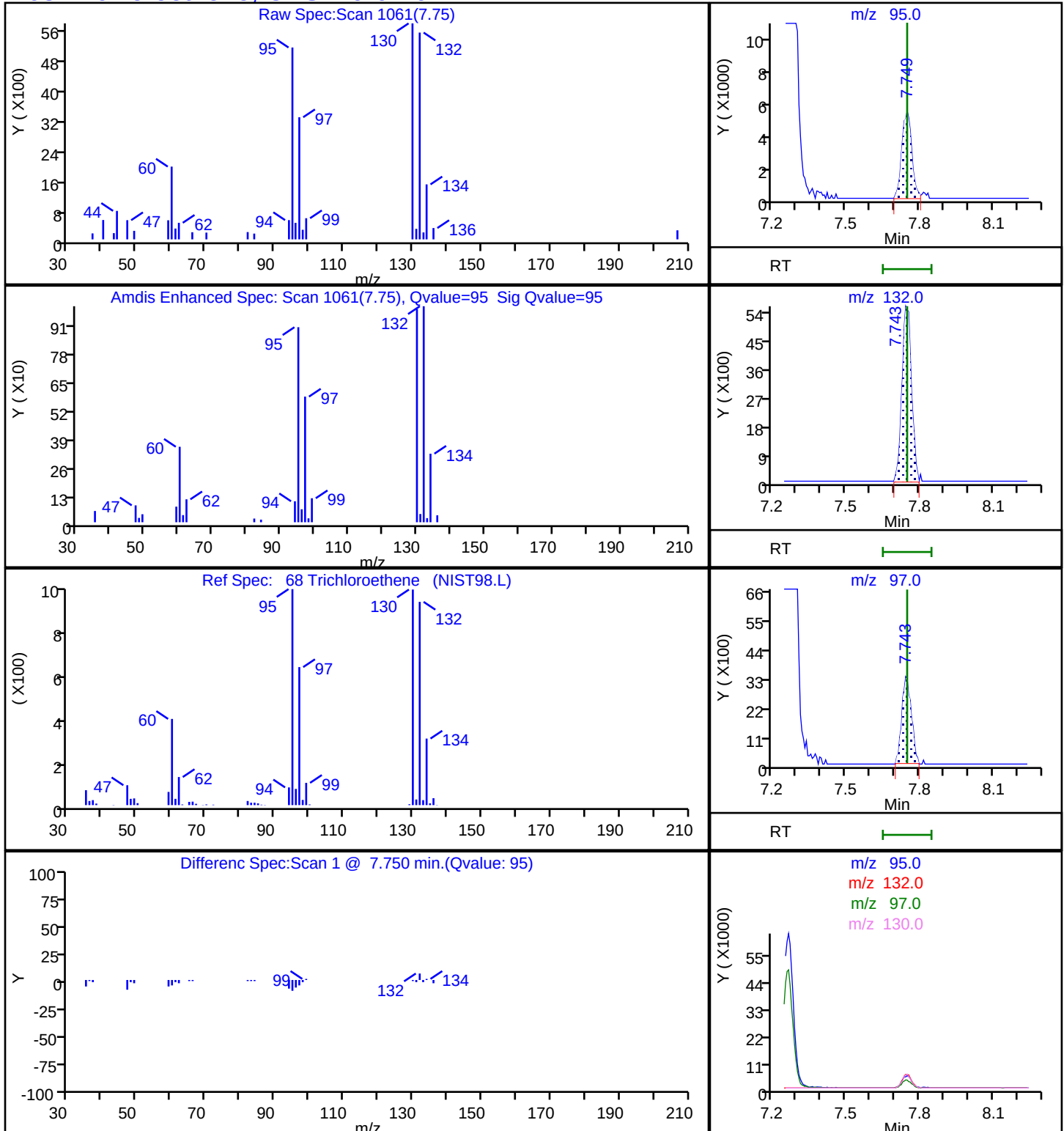
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

68 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0

Lab Sample ID: 410-181527-4

Matrix: Water

Lab File ID: CL29X16.D

Analysis Method: 8260D

Date Collected: 07/25/2024 12:50

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 00:45

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.3	J	5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.093	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.082	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.30	J	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0

Lab Sample ID: 410-181527-4

Matrix: Water

Lab File ID: CL29X16.D

Analysis Method: 8260D

Date Collected: 07/25/2024 12:50

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 00:45

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.11	J	0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.090	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		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\10193\20240729-120642.b\CL29X16.D
 Lims ID: 410-181527-A-4
 Client ID: HD-COD-SW-9-0/1-0
 Sample Type: Client
 Inject. Date: 30-Jul-2024 00:45:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-017
 Misc. Info.: 410-181527-A-4
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 01:19:32 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:35:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.988				ND	7
6 Vinyl chloride	62		2.091				ND	
9 Bromomethane	94		2.402				ND	
10 Chloroethane	64		2.439				ND	
18 1,1-Dichloroethene	96		3.195				ND	
20 Acetone	43	3.219	3.213	0.006	100	24833	3.32	
25 Carbon disulfide	76		3.445				ND	7
30 Methylene Chloride	84		3.774				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.780	3.786	-0.006	97	150886	50.0	
34 Methyl tert-butyl ether	73		4.128				ND	
35 trans-1,2-Dichloroethene	96		4.140				ND	
37 1,1-Dichloroethane	63		4.792				ND	7
42 2-Butanone (MEK)	43	5.603	5.609	-0.006	35	5961	0.4341	
43 cis-1,2-Dichloroethene	96	5.627	5.640	-0.013	75	5418	0.0823	
48 Chlorobromomethane	128		5.975				ND	
50 Chloroform	83	6.127	6.133	-0.006	91	9957	0.0934	
\$ 54 Dibromofluoromethane (Surr)	113	6.347	6.359	-0.012	94	518468	9.98	
53 1,1,1-Trichloroethane	97		6.359				ND	
56 Carbon tetrachloride	117		6.566				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.810	6.816	-0.006	99	109370	10.3	
60 Benzene	78		6.841				ND	7
61 1,2-Dichloroethane	62		6.920				ND	
* 65 Fluorobenzene (IS)	96	7.255	7.261	-0.006	100	2146263	10.0	
68 Trichloroethene	95	7.743	7.749	-0.006	95	5923	0.0899	
70 1,2-Dichloropropane	63		8.090				ND	
76 Dichlorobromomethane	83		8.450				ND	7
80 cis-1,3-Dichloropropene	75		9.017				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2162173	10.0	
84 Toluene	92	9.425	9.432	-0.007	98	16950	0.1060	
85 trans-1,3-Dichloropropene	75		9.718				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.938				ND	
88 Tetrachloroethene	166	10.011	10.017	-0.006	97	24098	0.3035	
106 2-Hexanone	43		10.175				ND	7
108 Chlorodibromomethane	129		10.328				ND	
110 Ethylene Dibromide	107		10.437				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.889	10.895	-0.006	84	1683344	10.0	
113 Chlorobenzene	112		10.919				ND	
114 1,1,1,2-Tetrachloroethane	131		11.010				ND	
115 Ethylbenzene	91		11.017				ND	7
116 m-Xylene & p-Xylene	106	11.132	11.138	-0.006	97	6237	0.0485	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.480				ND	7
119 Styrene	104		11.492				ND	7
120 Bromoform	173		11.651				ND	7
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	96	767926	9.47	
126 1,1,2,2-Tetrachloroethane	83		12.047				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.833	12.839	-0.006	93	947645	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 30-Jul-2024 14:35:42

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X16.D

Injection Date: 30-Jul-2024 00:45:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-A-4

Lab Sample ID: 410-181527-4

Worklist Smp#: 17

Client ID: HD-COD-SW-9-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X16.D
Lims ID: 410-181527-A-4
Client ID: HD-COD-SW-9-0/1-0
Sample Type: Client
Inject. Date: 30-Jul-2024 00:45:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-017
Misc. Info.: 410-181527-A-4
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 01:19:32 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:35:41

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.98	99.75
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.85
\$ 83 Toluene-d8 (Surr)	10.0	10.0	100.25
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.47	94.71

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X16.D

Injection Date: 30-Jul-2024 00:45:30

Instrument ID: 10193

Lims ID: 410-181527-A-4

Lab Sample ID: 410-181527-4

Client ID: HD-COD-SW-9-0/1-0

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

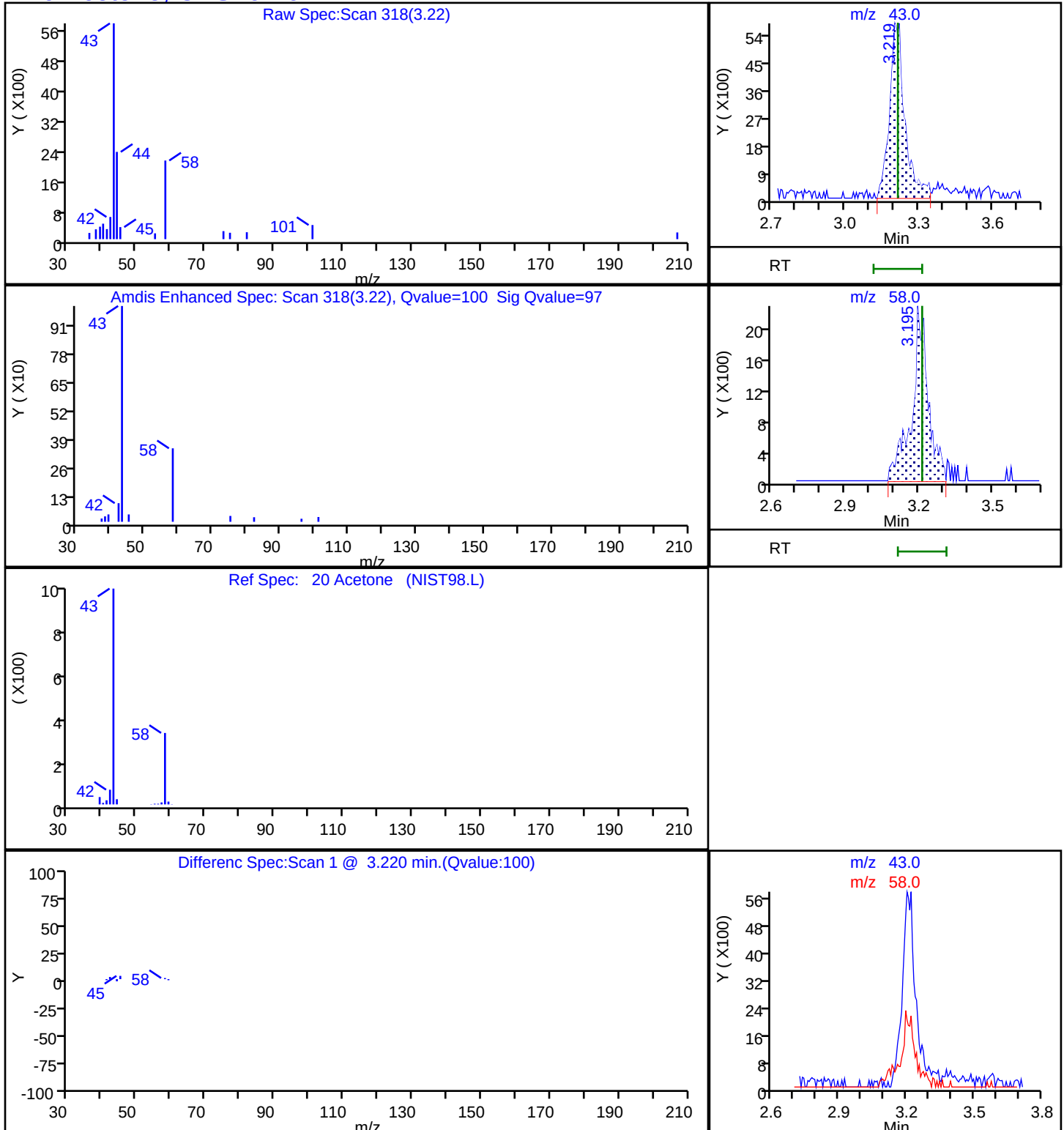
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

20 Acetone, CAS: 67-64-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X16.D

Injection Date: 30-Jul-2024 00:45:30

Instrument ID: 10193

Lims ID: 410-181527-A-4

Lab Sample ID: 410-181527-4

Client ID: HD-COD-SW-9-0/1-0

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

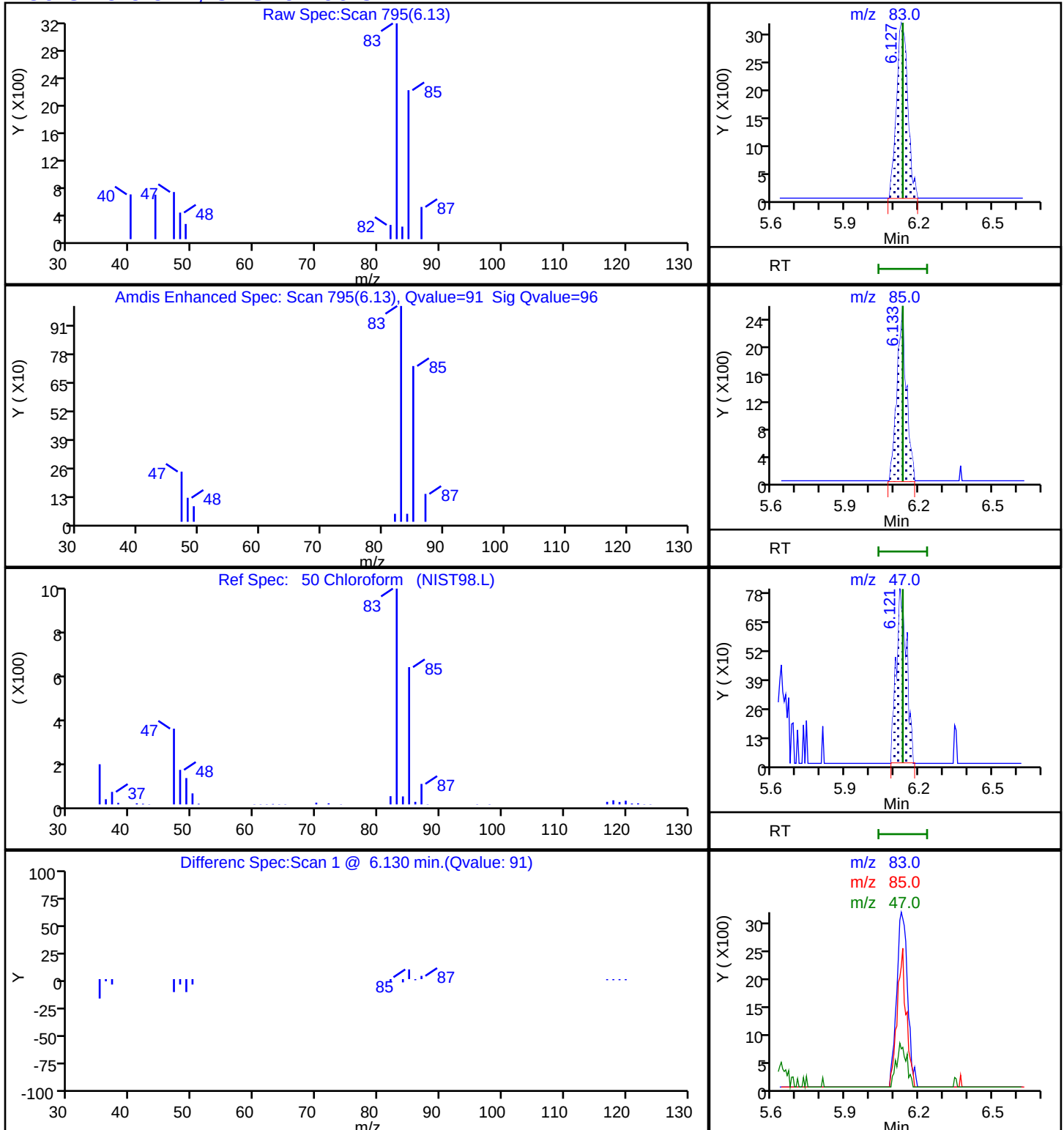
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X16.D

Injection Date: 30-Jul-2024 00:45:30

Instrument ID: 10193

Lims ID: 410-181527-A-4

Lab Sample ID: 410-181527-4

Client ID: HD-COD-SW-9-0/1-0

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

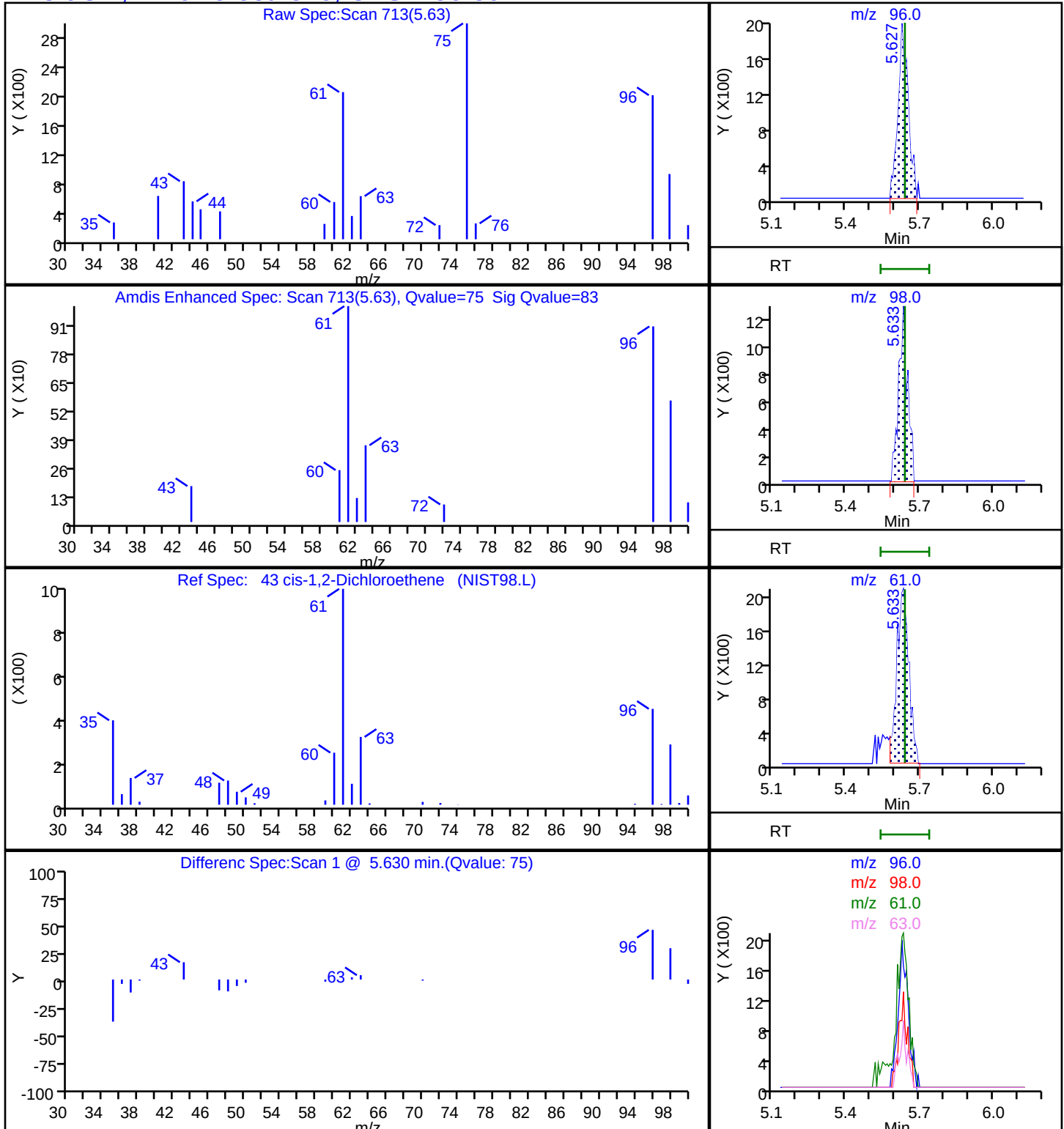
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X16.D

Injection Date: 30-Jul-2024 00:45:30

Instrument ID: 10193

Lims ID: 410-181527-A-4

Lab Sample ID: 410-181527-4

Client ID: HD-COD-SW-9-0/1-0

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

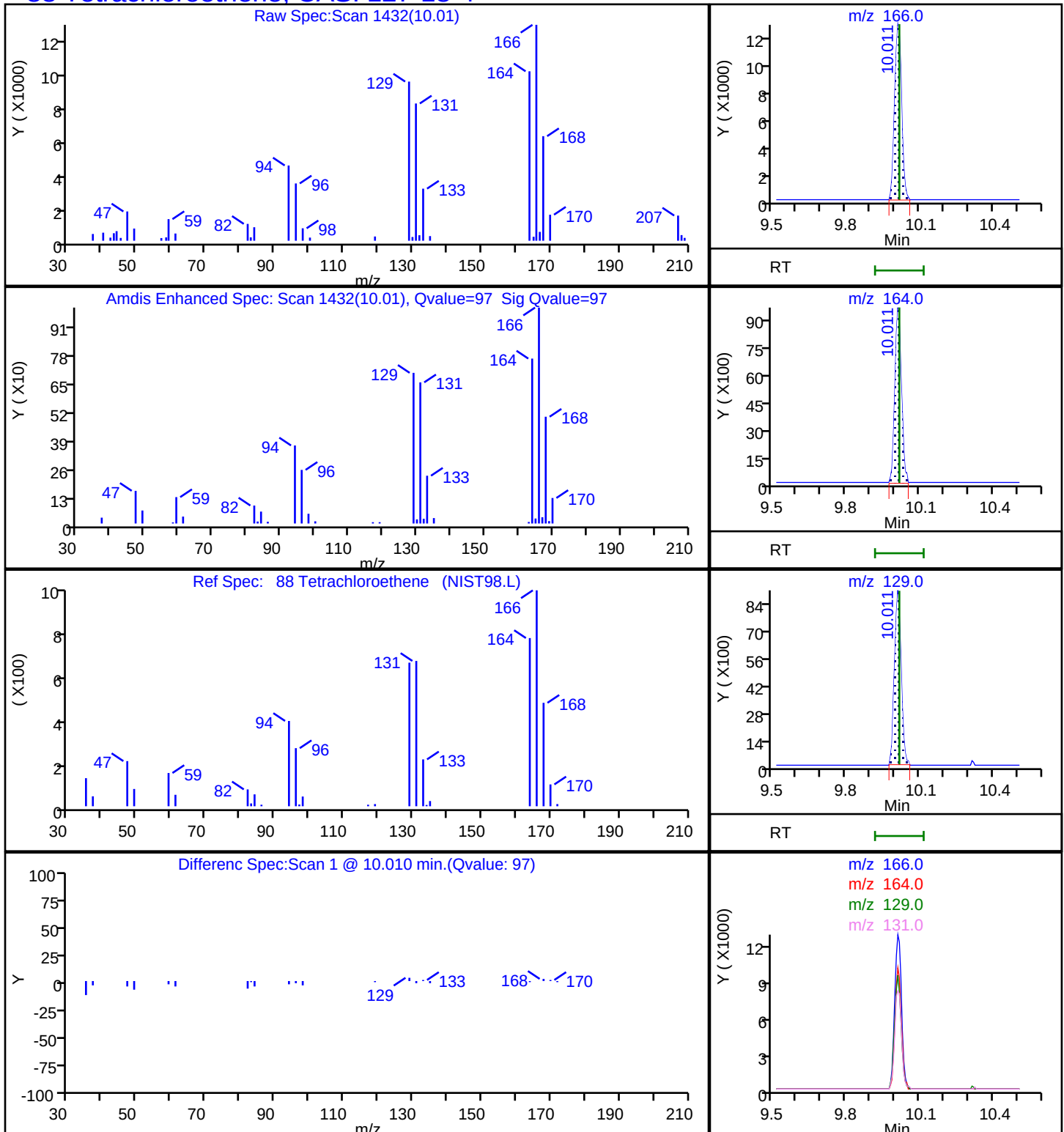
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

88 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X16.D

Injection Date: 30-Jul-2024 00:45:30

Instrument ID: 10193

Lims ID: 410-181527-A-4

Lab Sample ID: 410-181527-4

Client ID: HD-COD-SW-9-0/1-0

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

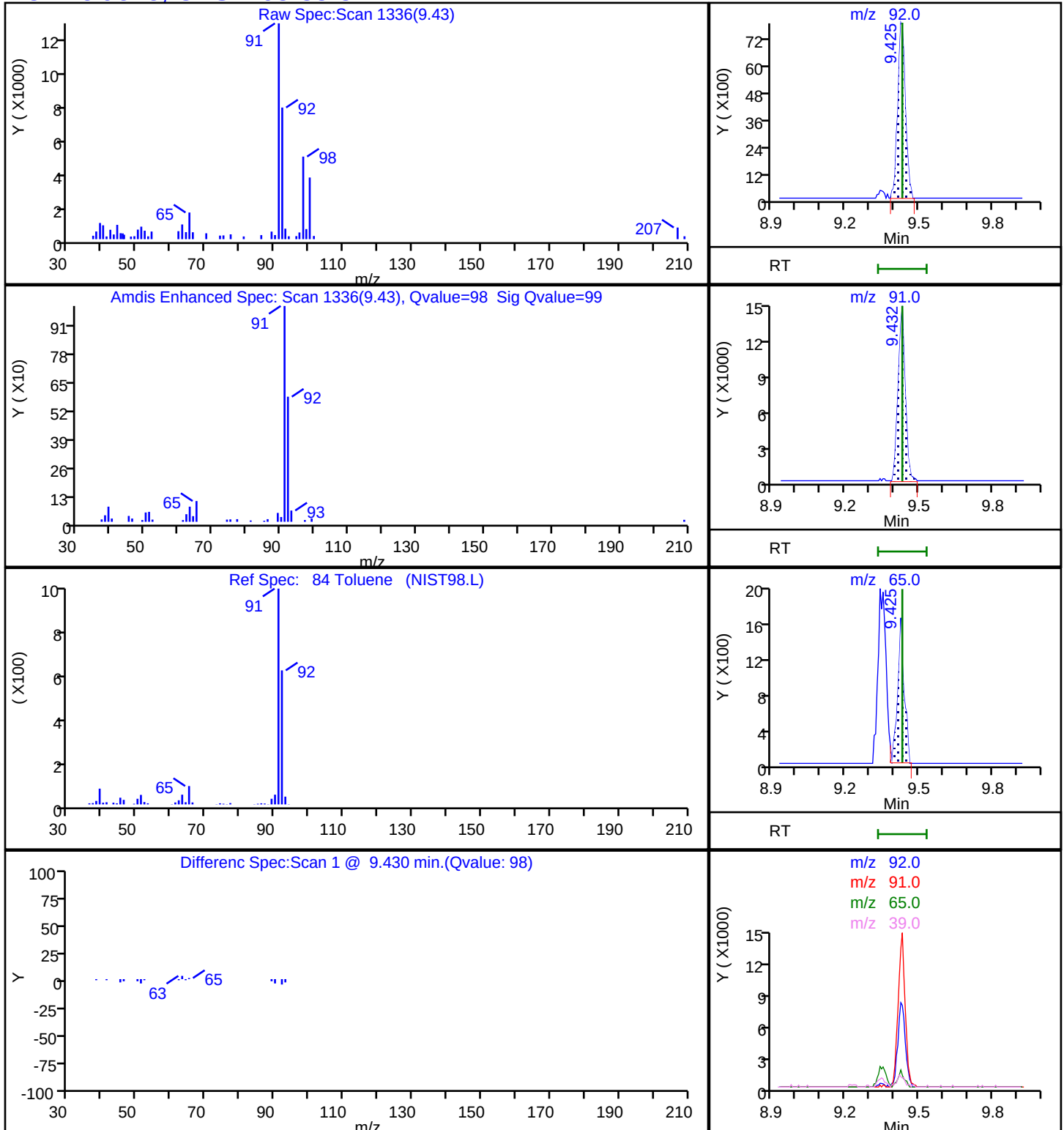
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

84 Toluene, CAS: 108-88-3

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X16.D

Injection Date: 30-Jul-2024 00:45:30

Instrument ID: 10193

Lims ID: 410-181527-A-4

Lab Sample ID: 410-181527-4

Client ID: HD-COD-SW-9-0/1-0

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

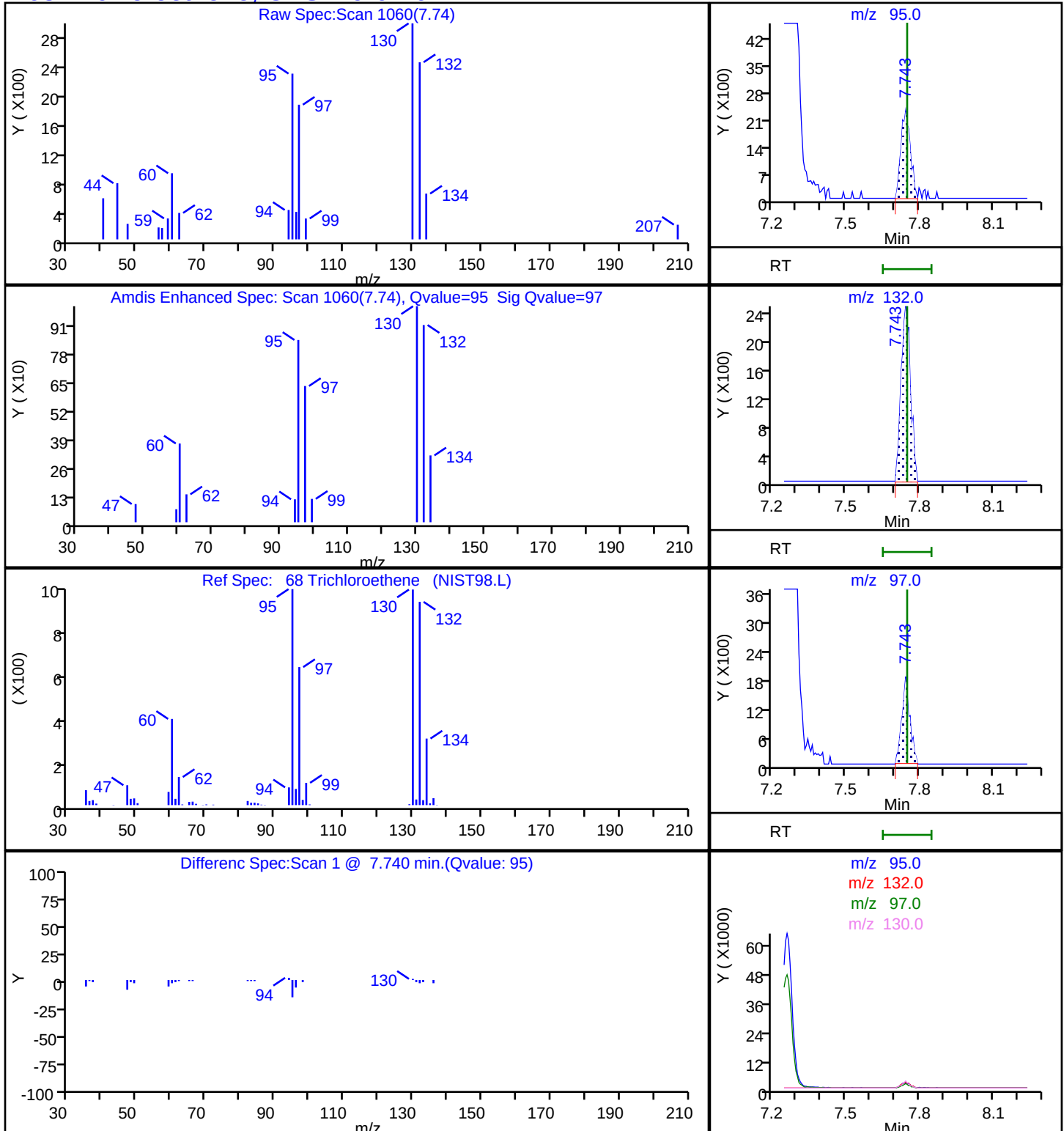
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

68 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0

Lab Sample ID: 410-181527-5

Matrix: Water

Lab File ID: CL29X17.D

Analysis Method: 8260D

Date Collected: 07/25/2024 09:30

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 01:07

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	0.14	J	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.9	J	5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.20	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	1.9		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-181527-5

Matrix: Water Lab File ID: CL29X17.D

Analysis Method: 8260D Date Collected: 07/25/2024 09:30

Sample wt/vol: 25 (mL) Date Analyzed: 07/30/2024 01:07

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 533656 Units: ug/L

Preparation Batch No.: _____ Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.081	J	0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.25	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		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\10193\20240729-120642.b\CL29X17.D
 Lims ID: 410-181527-A-5
 Client ID: HD-COD-SW-13-0/1-0
 Sample Type: Client
 Inject. Date: 30-Jul-2024 01:07:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-018
 Misc. Info.: 410-181527-A-5
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 14:36:26 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:36:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.988	1.988	0.000	94	3078	0.0384	
6 Vinyl chloride	62		2.091				ND	7
9 Bromomethane	94		2.402				ND	7
10 Chloroethane	64		2.439				ND	
18 1,1-Dichloroethene	96		3.195				ND	7
20 Acetone	43	3.225	3.213	0.012	98	13963	1.86	
25 Carbon disulfide	76		3.445				ND	7
30 Methylene Chloride	84		3.774				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.792	3.786	0.006	97	150975	50.0	
34 Methyl tert-butyl ether	73		4.128				ND	
35 trans-1,2-Dichloroethene	96		4.140				ND	
37 1,1-Dichloroethane	63	4.780	4.792	-0.012	91	4066	0.0406	
42 2-Butanone (MEK)	43	5.609	5.609	0.000	26	5859	0.4264	
43 cis-1,2-Dichloroethene	96	5.640	5.640	0.000	78	12960	0.1981	
48 Chlorobromomethane	128		5.975				ND	
50 Chloroform	83	6.139	6.133	0.006	92	9141	0.0862	
\$ 54 Dibromofluoromethane (Surr)	113	6.353	6.359	-0.006	94	514546	9.96	
53 1,1,1-Trichloroethane	97	6.365	6.359	0.006	35	12627	0.1426	a
56 Carbon tetrachloride	117		6.566				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.810	6.816	-0.006	99	109436	10.4	
60 Benzene	78		6.841				ND	7
61 1,2-Dichloroethane	62		6.920				ND	
* 65 Fluorobenzene (IS)	96	7.261	7.261	0.000	99	2133757	10.0	
68 Trichloroethene	95	7.743	7.749	-0.006	95	16458	0.2512	
70 1,2-Dichloropropane	63		8.090				ND	
76 Dichlorobromomethane	83		8.450				ND	7
80 cis-1,3-Dichloropropene	75		9.017				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2160346	10.1	
84 Toluene	92	9.432	9.432	0.000	99	12790	0.0806	
85 trans-1,3-Dichloropropene	75		9.718				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.938				ND	
88 Tetrachloroethene	166	10.017	10.017	0.000	97	151537	1.92	
106 2-Hexanone	43		10.175				ND	7
108 Chlorodibromomethane	129		10.328				ND	
110 Ethylene Dibromide	107		10.437				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.895	10.895	0.000	84	1671625	10.0	
113 Chlorobenzene	112		10.919				ND	
114 1,1,1,2-Tetrachloroethane	131		11.010				ND	
115 Ethylbenzene	91		11.017				ND	7
116 m-Xylene & p-Xylene	106	11.132	11.138	-0.006	96	6977	0.0546	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.480				ND	7
119 Styrene	104		11.492				ND	7
120 Bromoform	173		11.651				ND	7
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	96	778214	9.67	
126 1,1,2,2-Tetrachloroethane	83		12.047				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.839	12.839	0.000	93	947211	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X17.D

Injection Date: 30-Jul-2024 01:07:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-A-5

Lab Sample ID: 410-181527-5

Worklist Smp#: 18

Client ID: HD-COD-SW-13-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 17

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X17.D
Lims ID: 410-181527-A-5
Client ID: HD-COD-SW-13-0/1-0
Sample Type: Client
Inject. Date: 30-Jul-2024 01:07:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-018
Misc. Info.: 410-181527-A-5
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 14:36:26 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:36:26

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.96	99.58
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.52
\$ 83 Toluene-d8 (Surr)	10.0	10.1	100.86
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.67	96.66

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X17.D

Injection Date: 30-Jul-2024 01:07:30

Instrument ID: 10193

Lims ID: 410-181527-A-5

Lab Sample ID: 410-181527-5

Client ID: HD-COD-SW-13-0/1-0

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

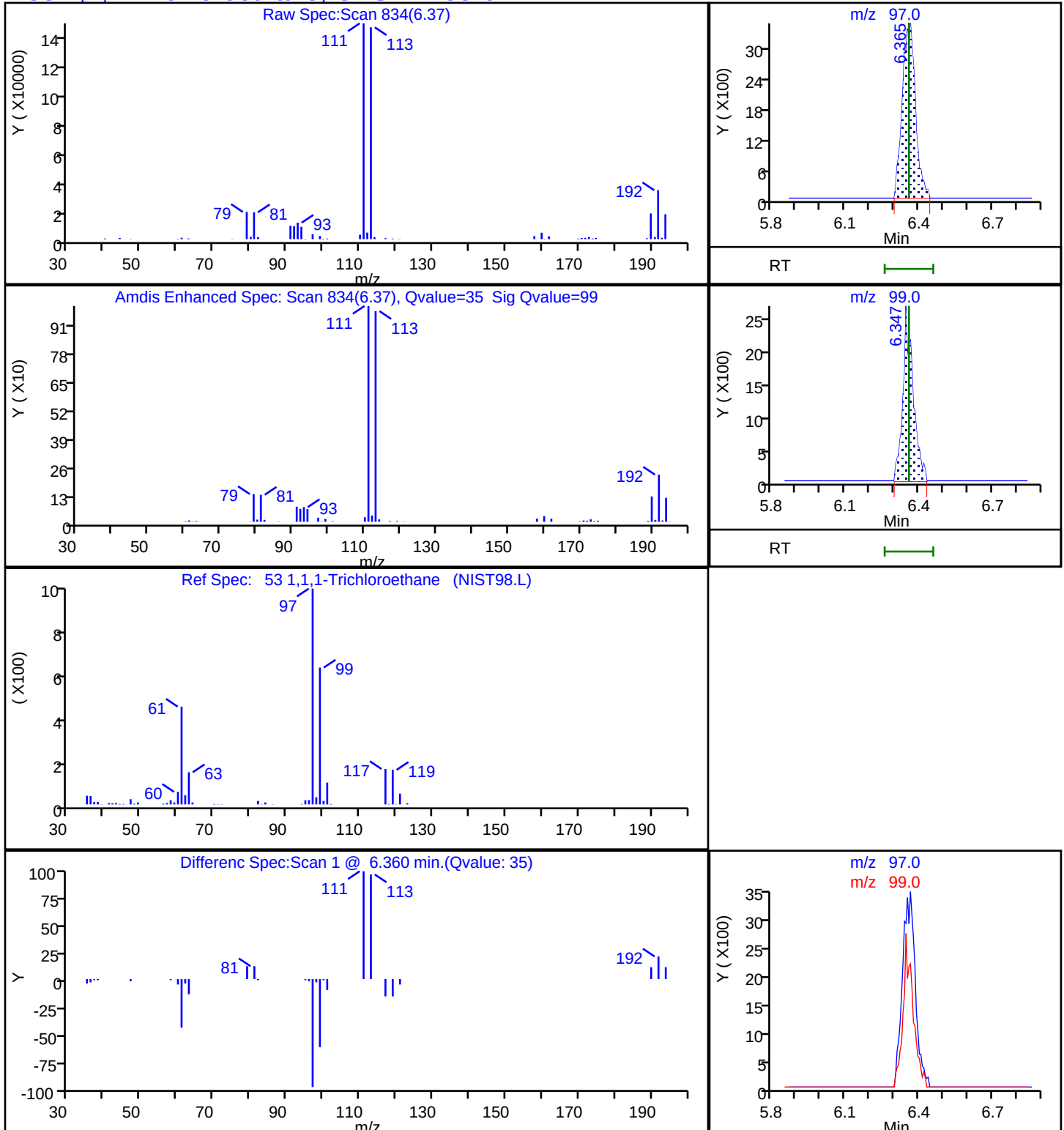
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 30m

MS Quad

53 1,1,1-Trichloroethane, CAS: 71-55-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X17.D

Injection Date: 30-Jul-2024 01:07:30

Instrument ID: 10193

Lims ID: 410-181527-A-5

Lab Sample ID: 410-181527-5

Client ID: HD-COD-SW-13-0/1-0

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

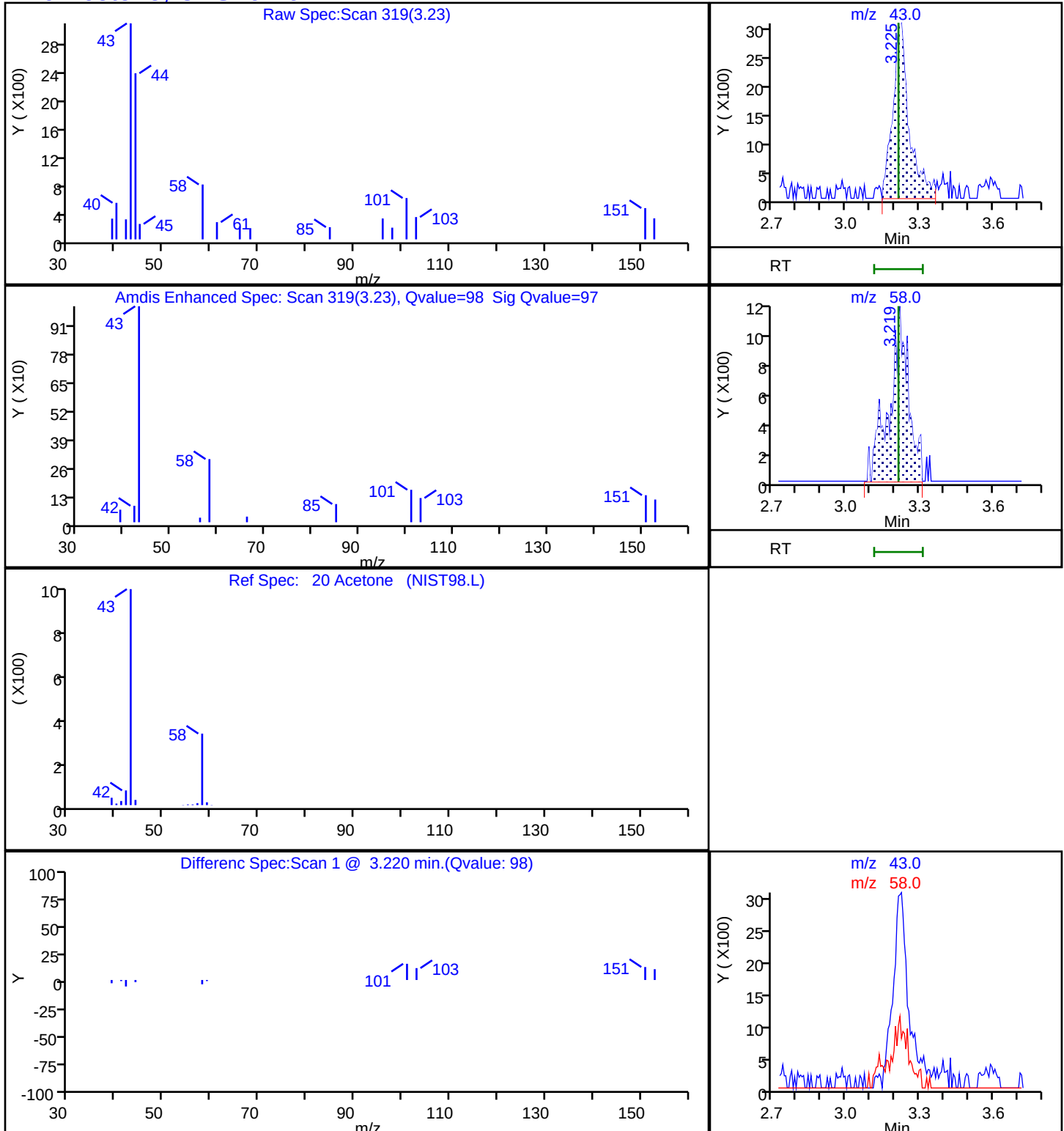
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

20 Acetone, CAS: 67-64-1

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X17.D

Injection Date: 30-Jul-2024 01:07:30

Instrument ID: 10193

Lims ID: 410-181527-A-5

Lab Sample ID: 410-181527-5

Client ID: HD-COD-SW-13-0/1-0

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

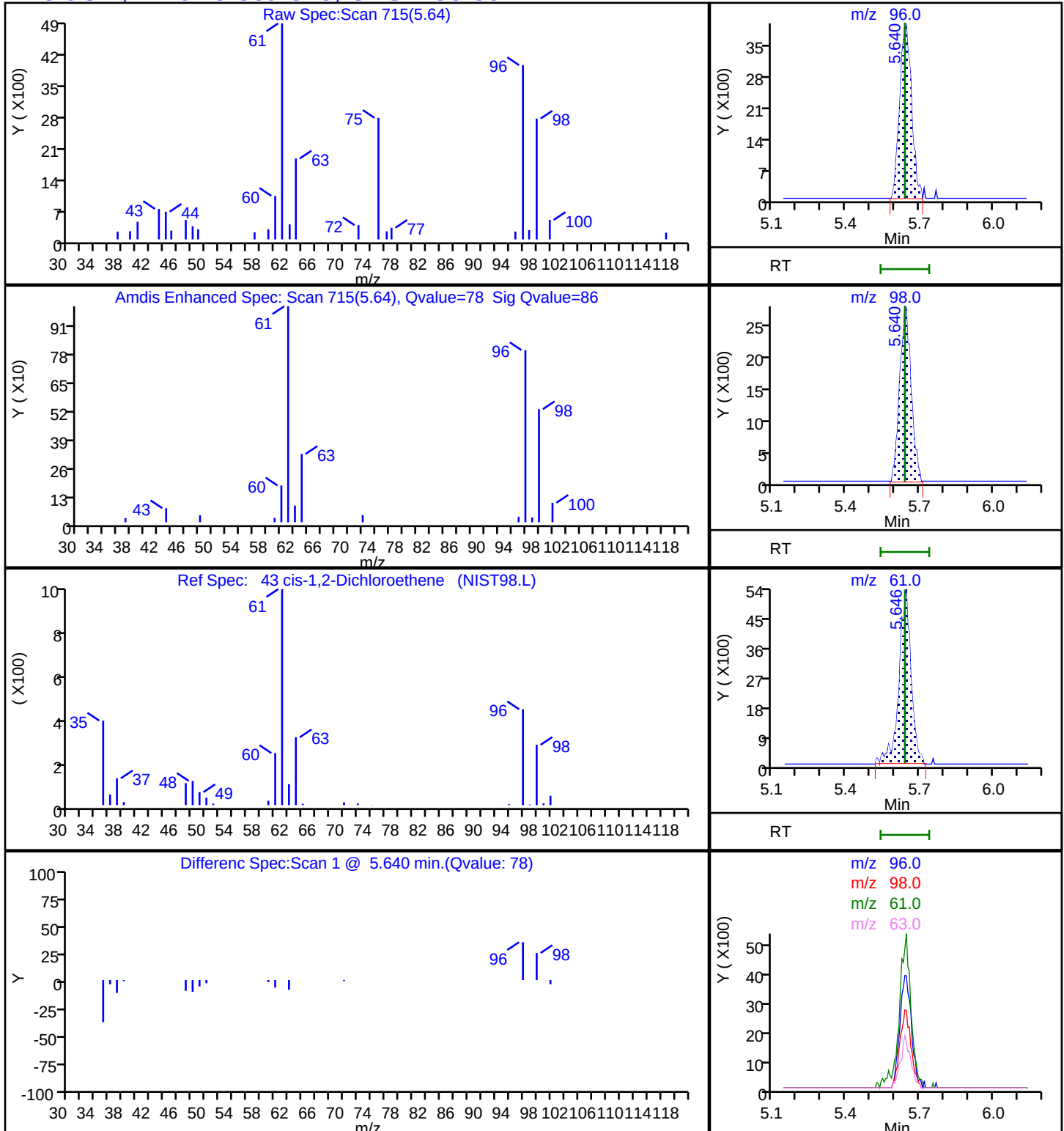
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X17.D

Injection Date: 30-Jul-2024 01:07:30

Instrument ID: 10193

Lims ID: 410-181527-A-5

Lab Sample ID: 410-181527-5

Client ID: HD-COD-SW-13-0/1-0

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

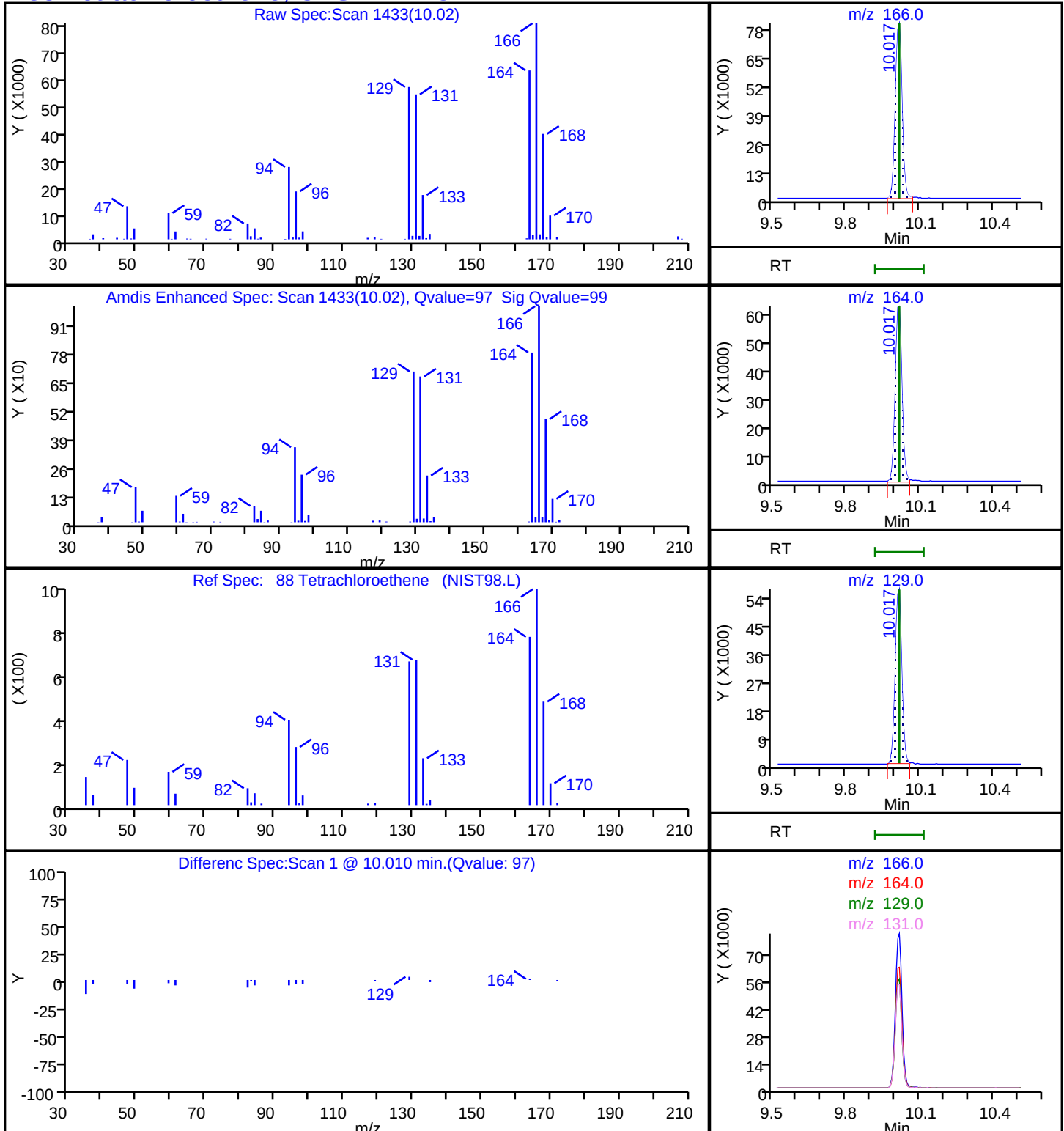
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

88 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X17.D

Injection Date: 30-Jul-2024 01:07:30

Instrument ID: 10193

Lims ID: 410-181527-A-5

Lab Sample ID: 410-181527-5

Client ID: HD-COD-SW-13-0/1-0

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

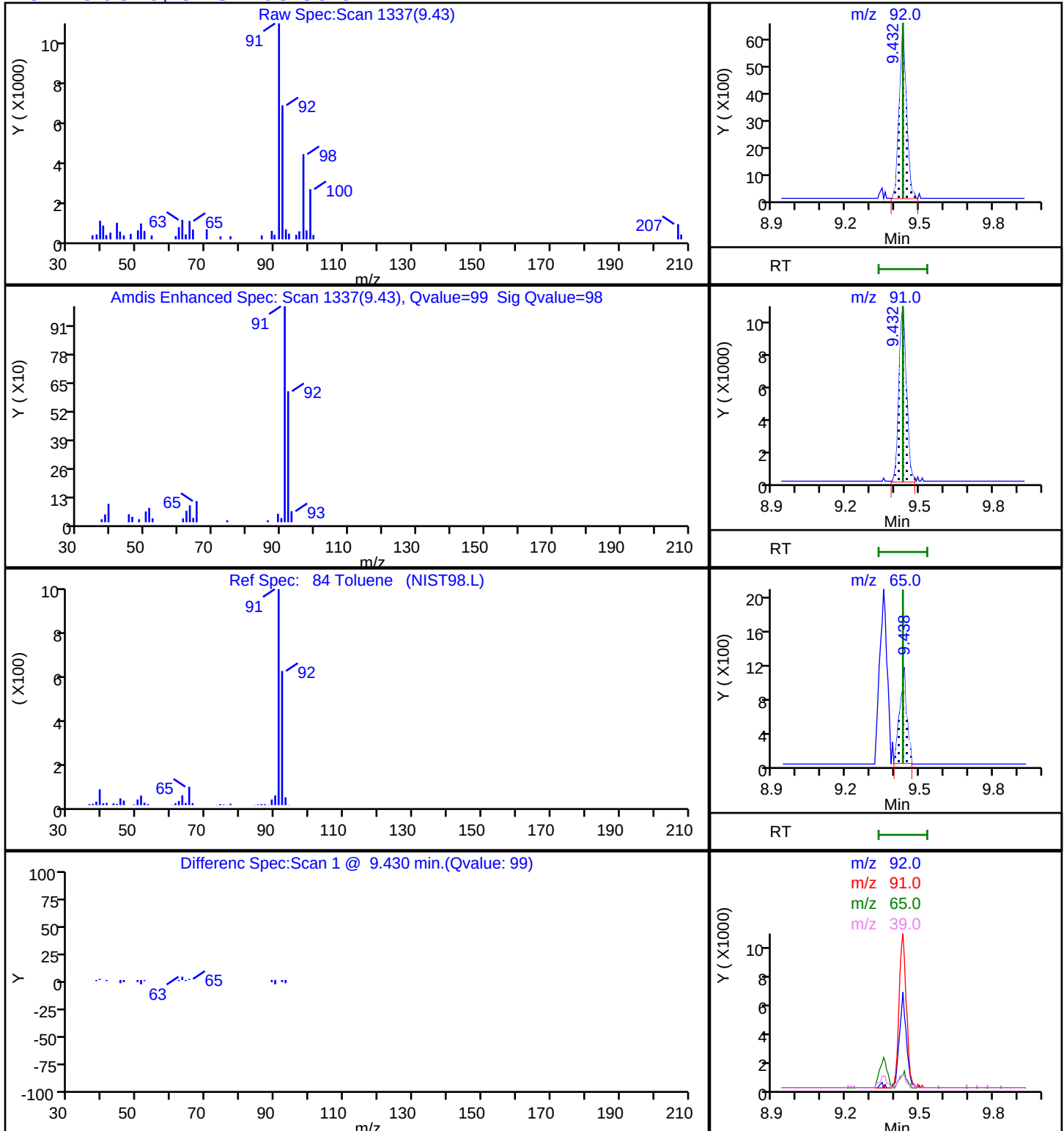
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.)

MS Quad

84 Toluene, CAS: 108-88-3

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X17.D

Injection Date: 30-Jul-2024 01:07:30

Instrument ID: 10193

Lims ID: 410-181527-A-5

Lab Sample ID: 410-181527-5

Client ID: HD-COD-SW-13-0/1-0

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

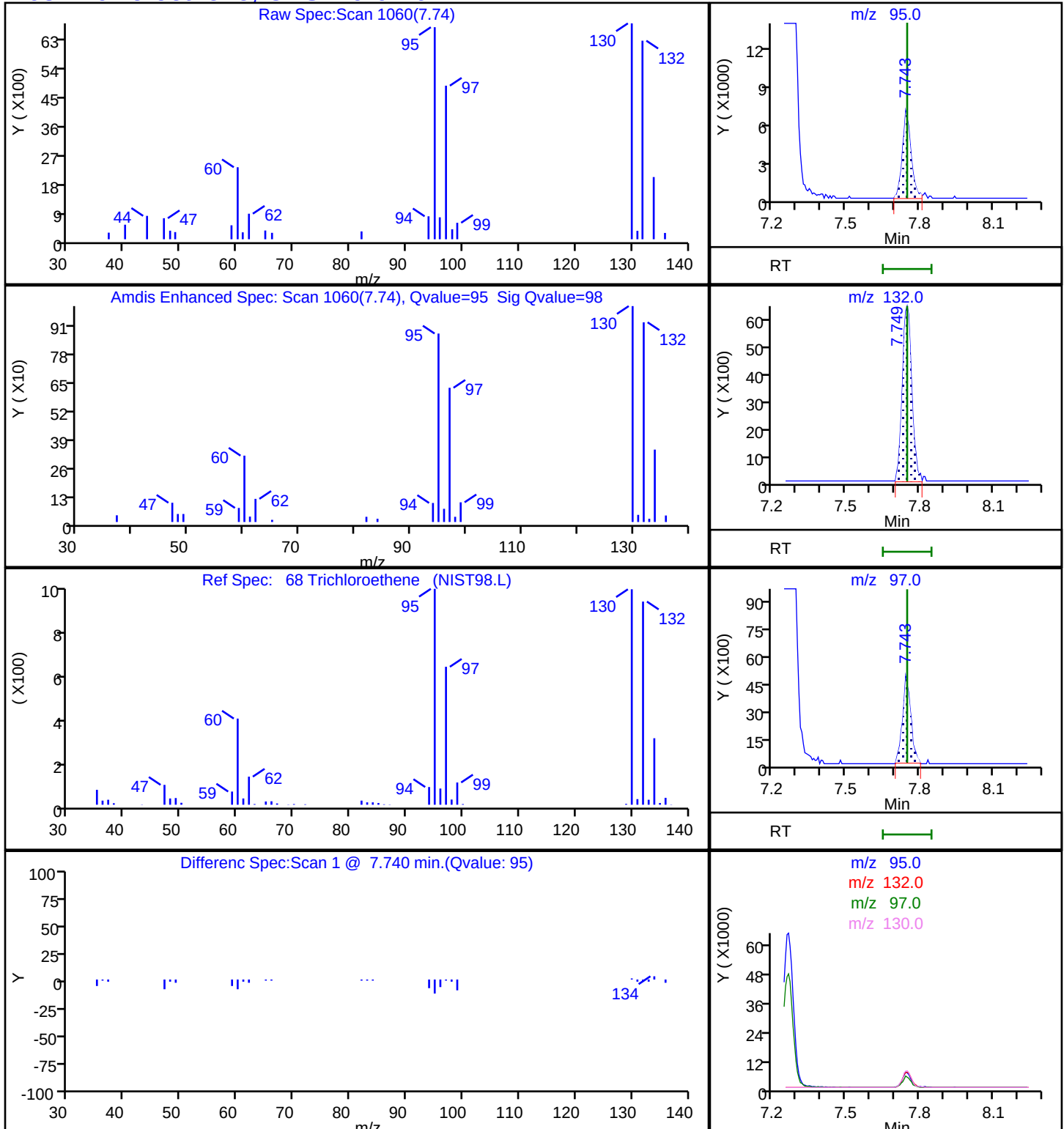
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 150m

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

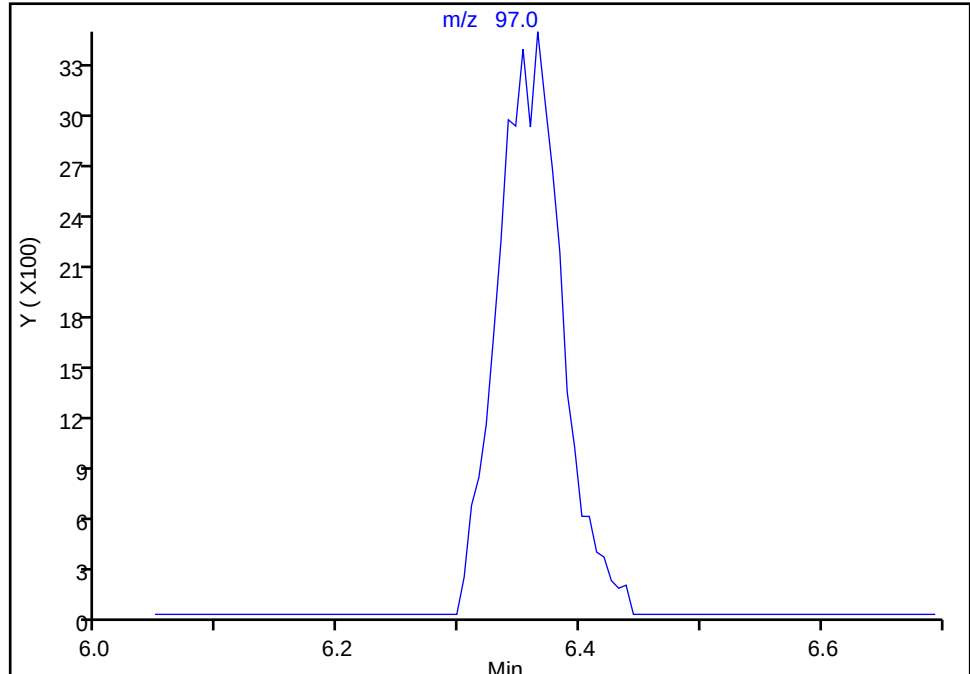
Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X17.D
Injection Date: 30-Jul-2024 01:07:30 Instrument ID: 10193
Lims ID: 410-181527-A-5 Lab Sample ID: 410-181527-5
Client ID: HD-COD-SW-13-0/1-0
Operator ID: gaw91131 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

53 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

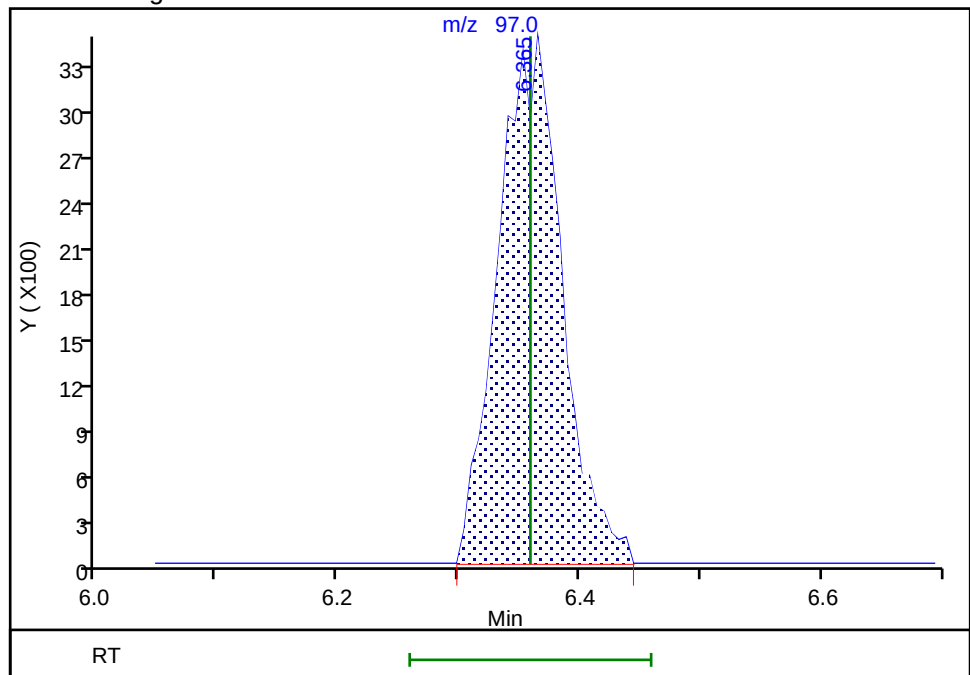
Not Detected
Expected RT: 6.36

Processing Integration Results



RT: 6.37
Area: 12627
Amount: 0.142572
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 30-Jul-2024 14:36:23 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.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0

Lab Sample ID: 410-181527-6

Matrix: Water

Lab File ID: CL29X18.D

Analysis Method: 8260D

Date Collected: 07/25/2024 11:40

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 01:29

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	0.40	J	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	0.13	J	0.50	0.10
75-35-4	1,1-Dichloroethene	0.21	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.19	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	1.5		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	6.2		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0

Lab Sample ID: 410-181527-6

Matrix: Water

Lab File ID: CL29X18.D

Analysis Method: 8260D

Date Collected: 07/25/2024 11:40

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 01:29

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	1.4		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		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\10193\20240729-120642.b\CL29X18.D
 Lims ID: 410-181527-A-6
 Client ID: HD-COD-SW-15-0/1-0
 Sample Type: Client
 Inject. Date: 30-Jul-2024 01:29:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-019
 Misc. Info.: 410-181527-A-6
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 14:38:07 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:38:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.762				ND	
2 Dichlorodifluoromethane	85		1.805				ND	
3 Chlorodifluoromethane	51		1.811				ND	7
4 Dimethyl ether	45		1.860				ND	
5 Chloromethane	50		1.988				ND	
6 Vinyl chloride	62		2.091				ND	
7 Butadiene	39		2.122				ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.153				ND	
9 Bromomethane	94		2.402				ND	7
10 Chloroethane	64		2.439				ND	
11 Dichlorofluoromethane	67		2.695				ND	7
13 Pentane	43		2.726				ND	
12 Trichlorofluoromethane	101		2.744				ND	
T 15 Vinyl bromide TIC	106		2.830				ND	
14 Ethyl ether	59		2.914				ND	
16 1,2-Dichloro-1,1,2-trifluoroetha	67		3.012				ND	7
17 Acrolein	56		3.061				ND	7
T 19 Ethanol TIC	45	3.146	3.099	0.047	1	206	0.000985	
18 1,1-Dichloroethene	96	3.177	3.195	-0.018	94	10106	0.2112	
20 Acetone	43	3.207	3.213	-0.006	37	4315	0.5612	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.232				ND	
T 167 Isopropyl alcohol TIC	45	3.299	3.276	0.023	1	69	0.000330	
22 Iodomethane	142		3.360				ND	
24 Isopropyl alcohol	45		3.366				ND	
23 Ethyl bromide	108		3.384				ND	
25 Carbon disulfide	76		3.445				ND	7
T 28 Acetonitrile TIC	41	3.469	3.477	-0.008	8	74	0.000354	
27 Acetonitrile	41		3.561				ND	
26 Methyl acetate	43		3.579				ND	
29 3-Chloro-1-propene	41		3.603				ND	
30 Methylene Chloride	84		3.774				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 31 t-Butyl alcohol-d10 (IS)	65	3.780	3.786	-0.006	97	155026	50.0	
32 2-Methyl-2-propanol	59		3.896				ND	
33 Acrylonitrile	53		4.079				ND	
34 Methyl tert-butyl ether	73	4.128	4.128	0.000	94	5589	0.0383	
35 trans-1,2-Dichloroethene	96		4.140				ND	
36 Hexane	57		4.548				ND	
38 Vinyl acetate	43		4.780				ND	
37 1,1-Dichloroethane	63	4.792	4.792	0.000	95	12873	0.1312	
39 Isopropyl ether	45		4.859				ND	
40 2-Chloro-1,3-butadiene	53		4.902				ND	
41 Tert-butyl ethyl ether	59		5.402				ND	7
42 2-Butanone (MEK)	43		5.609				ND	7
43 cis-1,2-Dichloroethene	96	5.640	5.640	0.000	76	93361	1.46	
44 2,2-Dichloropropane	77		5.658				ND	7
46 Ethyl acetate	43		5.682				ND	7
45 Propionitrile	54		5.707				ND	
47 Methacrylonitrile	67		5.926				ND	
48 Chlorobromomethane	128		5.975				ND	
49 Tetrahydrofuran	71		5.981				ND	
51 Methyl acrylate	55		6.013				ND	
50 Chloroform	83	6.127	6.133	-0.006	92	19496	0.1876	
S 52 1,2-Dichloroethene, Total	100				0		1.46	
\$ 54 Dibromofluoromethane (Surr)	113	6.353	6.359	-0.006	94	508842	10.0	
53 1,1,1-Trichloroethane	97	6.359	6.359	0.000	38	34913	0.4021	
55 Cyclohexane	56		6.456				ND	
56 Carbon tetrachloride	117	6.566	6.566	0.000	91	2956	0.0376	
57 1,1-Dichloropropene	75		6.578				ND	
58 Isobutyl alcohol	41		6.767				ND	
62 1-Chlorobutane	56		6.781				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.810	6.816	-0.006	98	108695	10.5	
60 Benzene	78		6.841				ND	7
61 1,2-Dichloroethane	62		6.920				ND	
63 Isopropyl acetate	43		6.956				ND	
64 Tert-amyl methyl ether	73		7.048				ND	
* 65 Fluorobenzene (IS)	96	7.255	7.261	-0.006	100	2091622	10.0	
66 n-Heptane	43		7.279				ND	7
67 n-Butanol	56		7.676				ND	
68 Trichloroethene	95	7.743	7.749	-0.006	97	87983	1.37	
69 Methylcyclohexane	83		8.054				ND	
70 1,2-Dichloropropane	63		8.090				ND	
71 2-ethoxy-2-methyl butane	87		8.115				ND	
74 1,4-Dioxane	88		8.188				ND	
73 Methyl methacrylate	69		8.194				ND	
72 Dibromomethane	93		8.200				ND	
75 n-Propyl acetate	61		8.292				ND	
76 Dichlorobromomethane	83		8.450				ND	
77 2-Nitropropane	41		8.737				ND	
78 1-Bromo-2-chloroethane	63		8.840				ND	
79 2-Chloroethyl vinyl ether	63		8.840				ND	
80 cis-1,3-Dichloropropene	75		9.017				ND	
81 Chloroacetonitrile	75		9.067				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2102341	9.96	
84 Toluene	92	9.438	9.432	0.006	97	4697	0.0300	
85 trans-1,3-Dichloropropene	75		9.718				ND	7
86 Ethyl methacrylate	69		9.797				ND	
87 1,1,2-Trichloroethane	97	9.925	9.938	-0.013	72	1132	0.0250	
T 93 Monochloroacetic acid TIC	50	9.999	10.000	-0.001	1	62	0.000296	
T 90 2-Bromoethanol TIC	45	10.041	10.000	0.041	1	122	0.000583	
T 98 Epichlorohydrin TIC	57		10.000				ND	
T 100 2-Bromo-3-chloropropene TIC	75	9.907	10.000	-0.093	1	200	0.000956	
T 92 3-Chloro-1,2-propanediol TIC	43	10.005	10.000	0.005	1	399	0.001908	
T 95 Vinyl acetate (TIC)	43	10.005	10.000	0.005	1	399	0.001908	
T 94 2,3-Dibromo-1-propanol TIC	57		10.000				ND	
T 91 Octamethylcyclotetrasiloxane TIC	78	12.010	10.000	2.010	91	25948	0.1241	
T 104 Epibromohydrin TIC	57		10.000				ND	
T 102 Methyl acrylate TIC	55	9.925	10.000	-0.075	1	127	0.000607	
T 105 Chloroacetaldehyde TIC	50		10.000				ND	
T 97 Decamethylcyclopentasiloxane TIC	73	9.895	10.000	-0.105	1	140	0.000669	
T 96 Nitrobenzene TIC	77	10.017	10.000	0.017	1	125	0.000598	
T 99 2,3-Dibromopropene TIC	119	10.011	10.000	0.011	1	3801	0.0182	
T 101 Ethylene oxide TIC	43	10.005	10.000	0.005	1	399	0.001908	
T 103 2-Chloroethanol TIC	44	10.078	10.000	0.078	1	381	0.001822	
88 Tetrachloroethene	166	10.011	10.017	-0.006	97	479799	6.17	
S 107 1,3-Dichloropropene, Total	100		10.060				ND	7
89 1,3-Dichloropropane	76		10.102				ND	
106 2-Hexanone	43		10.175				ND	
109 n-Butyl acetate	43		10.316				ND	U
108 Chlorodibromomethane	129		10.328				ND	
110 Ethylene Dibromide	107		10.437				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.895	10.895	0.000	83	1647310	10.0	
112 1-Chlorohexane	91		10.913				ND	7
113 Chlorobenzene	112		10.919				ND	
114 1,1,1,2-Tetrachloroethane	131		11.010				ND	7
115 Ethylbenzene	91		11.017				ND	7
116 m-Xylene & p-Xylene	106		11.138				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.480				ND	7
119 Styrene	104		11.492				ND	7
120 Bromoform	173		11.651				ND	
121 Isopropylbenzene	105		11.791				ND	
122 cis-1,4-Dichloro-2-butene	88		11.852				ND	
123 Cyclohexanone	55		11.876				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	96	753746	9.50	
126 1,1,2,2-Tetrachloroethane	83		12.047				ND	
125 Bromobenzene	156		12.047				ND	
127 trans-1,4-Dichloro-2-butene	53		12.077				ND	
128 1,2,3-Trichloropropane	110		12.090				ND	
129 N-Propylbenzene	91		12.126				ND	7
130 2-Chlorotoluene	126		12.205				ND	
131 1,3,5-Trimethylbenzene	105		12.272				ND	7
132 4-Chlorotoluene	126		12.297				ND	
133 tert-Butylbenzene	134		12.516				ND	
134 Pentachloroethane	167		12.547				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
135 1,2,4-Trimethylbenzene	105		12.559				ND	7
136 sec-Butylbenzene	105		12.687				ND	
137 1,3-Dichlorobenzene	146		12.778				ND	7
138 4-Isopropyltoluene	119		12.797				ND	7
* 139 1,4-Dichlorobenzene-d4	152	12.840	12.839	0.001	93	924626	10.0	
140 1,4-Dichlorobenzene	146		12.858				ND	7
141 1,2,3-Trimethylbenzene	120		12.870				ND	7
142 Benzyl chloride	126		12.937				ND	
145 p-Diethylbenzene	119		13.077				ND	
143 n-Butylbenzene	92		13.095				ND	
144 1,2-Dichlorobenzene	146		13.120				ND	
T 146 Hexachloroethane TIC	117	13.431	13.444	-0.013	1	275	0.001315	
147 Hexachloroethane	117		13.444				ND	
148 1,2-Dibromo-3-Chloropropane	155		13.675				ND	
149 1,3,5-Trichlorobenzene	180		13.803				ND	
150 1,2,4-Trichlorobenzene	180		14.229				ND	
151 Hexachlorobutadiene	225		14.315				ND	
152 Naphthalene	128		14.412				ND	7
153 1,2,3-Trichlorobenzene	180		14.559				ND	
154 2-Methylnaphthalene	142		15.168				ND	
155 Dodecane	57		0.000				ND	
156 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
157 tert-Butyl Formate	1		0.000				ND	
158 2-Bromo-1-chloropropane	1		0.000				ND	
159 1-Chloropropane	1		0.000				ND	
160 1,1-Dichloroacetone	1		0.000				ND	
161 Methylal	1		0.000				ND	
162 Propene oxide	1		0.000				ND	
163 t-Amyl alcohol	1		0.000				ND	
164 Ethanol	45		0.000				ND	
165 n-Decane	57		0.000				ND	
166 1-Bromo-3-Chloropropane	1		0.000				ND	
244 1,1-Dichloro-1-fluoroethane TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 30-Jul-2024 14:38:08

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X18.D

Injection Date: 30-Jul-2024 01:29:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-A-6

Lab Sample ID: 410-181527-6

Worklist Smp#: 19

Client ID: HD-COD-SW-15-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

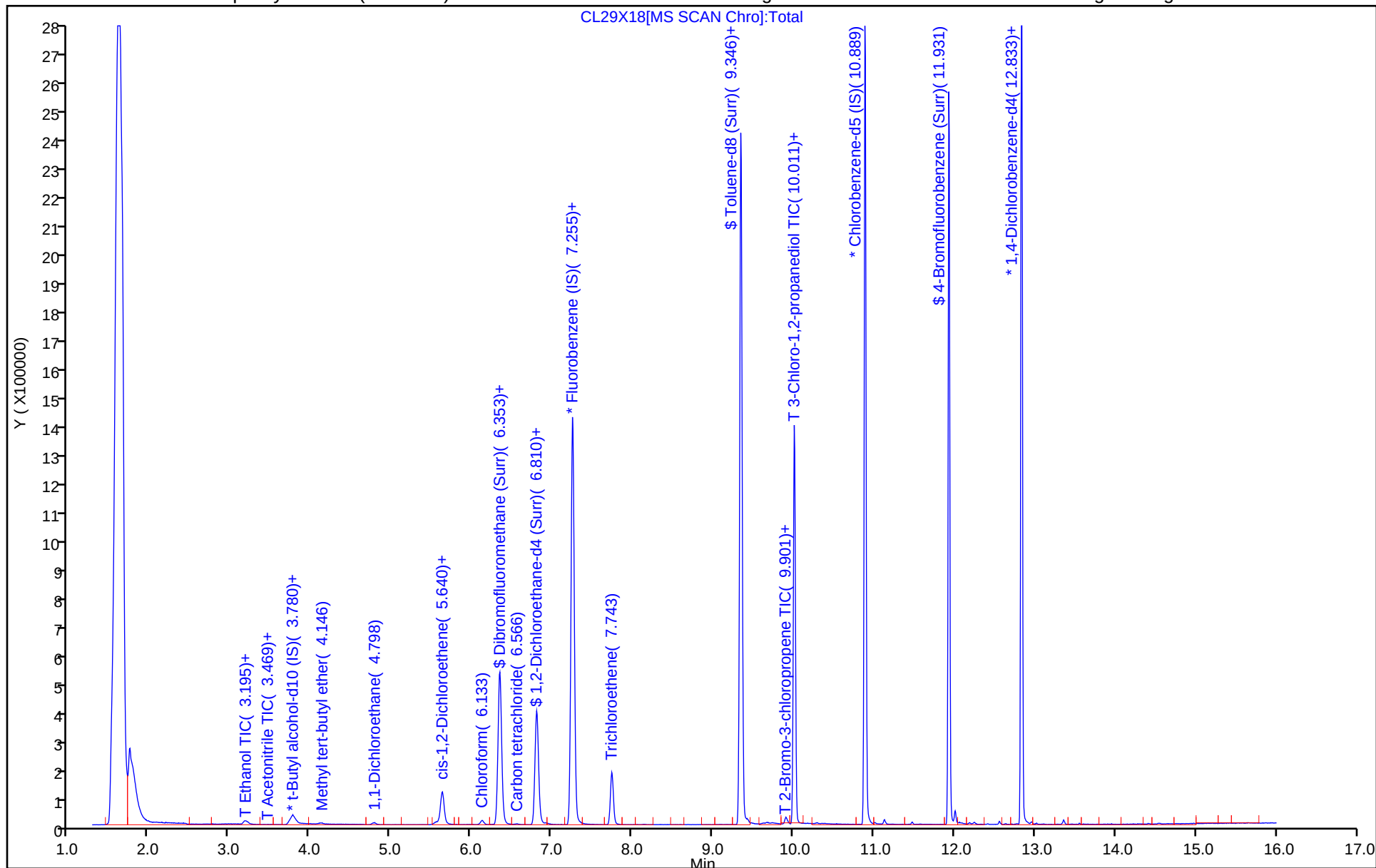
ALS Bottle#: 18

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X18.D
Lims ID: 410-181527-A-6
Client ID: HD-COD-SW-15-0/1-0
Sample Type: Client
Inject. Date: 30-Jul-2024 01:29:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-019
Misc. Info.: 410-181527-A-6
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 14:38:07 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:38:07

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.0	100.46
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.89
\$ 83 Toluene-d8 (Surr)	10.0	9.96	99.60
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.50	95.00

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X18.D

Injection Date: 30-Jul-2024 01:29:30

Instrument ID: 10193

Lims ID: 410-181527-A-6

Lab Sample ID: 410-181527-6

Client ID: HD-COD-SW-15-0/1-0

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

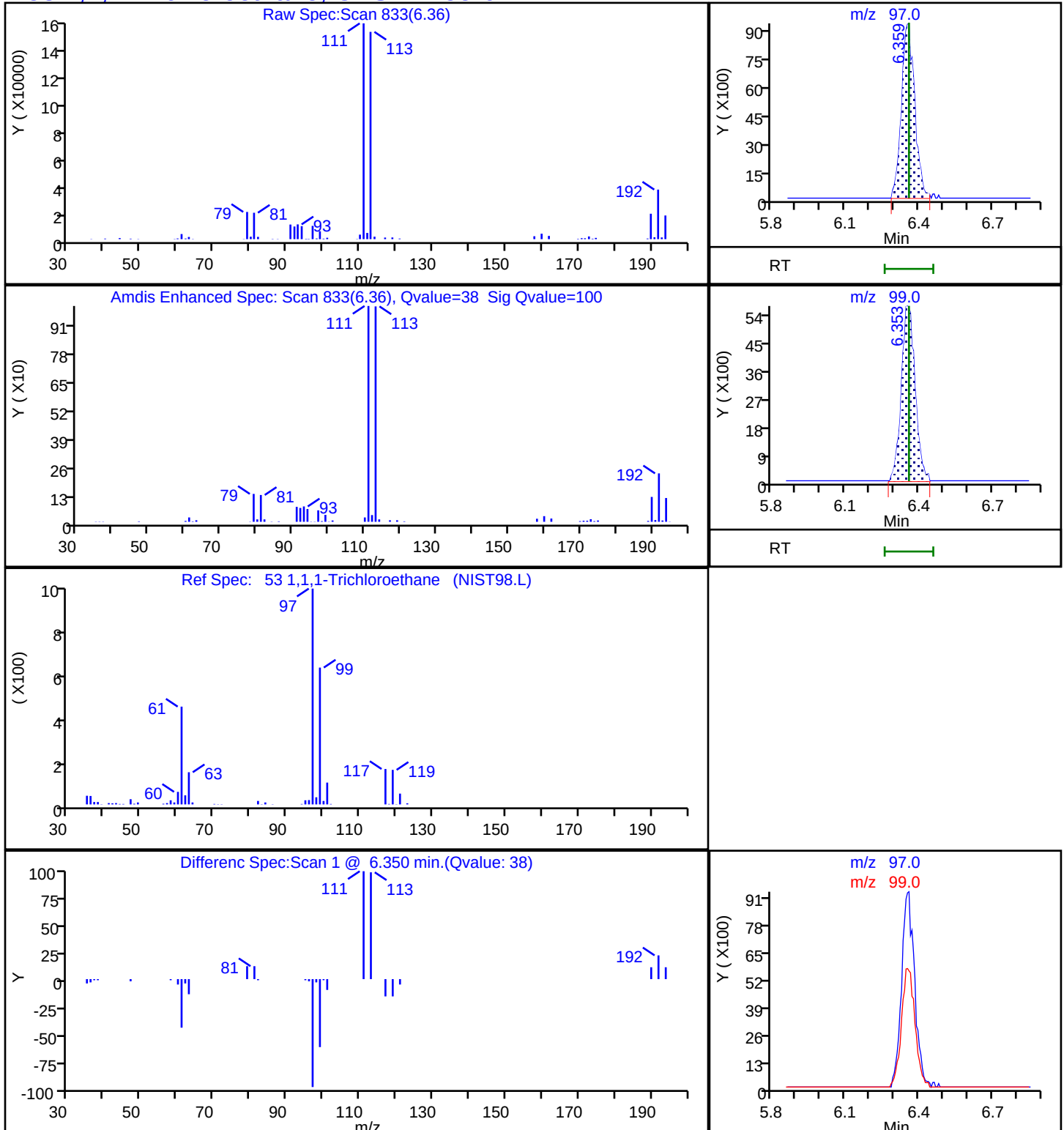
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 30m

MS Quad

53 1,1,1-Trichloroethane, CAS: 71-55-6

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X18.D

Injection Date: 30-Jul-2024 01:29:30

Instrument ID: 10193

Lims ID: 410-181527-A-6

Lab Sample ID: 410-181527-6

Client ID: HD-COD-SW-15-0/1-0

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

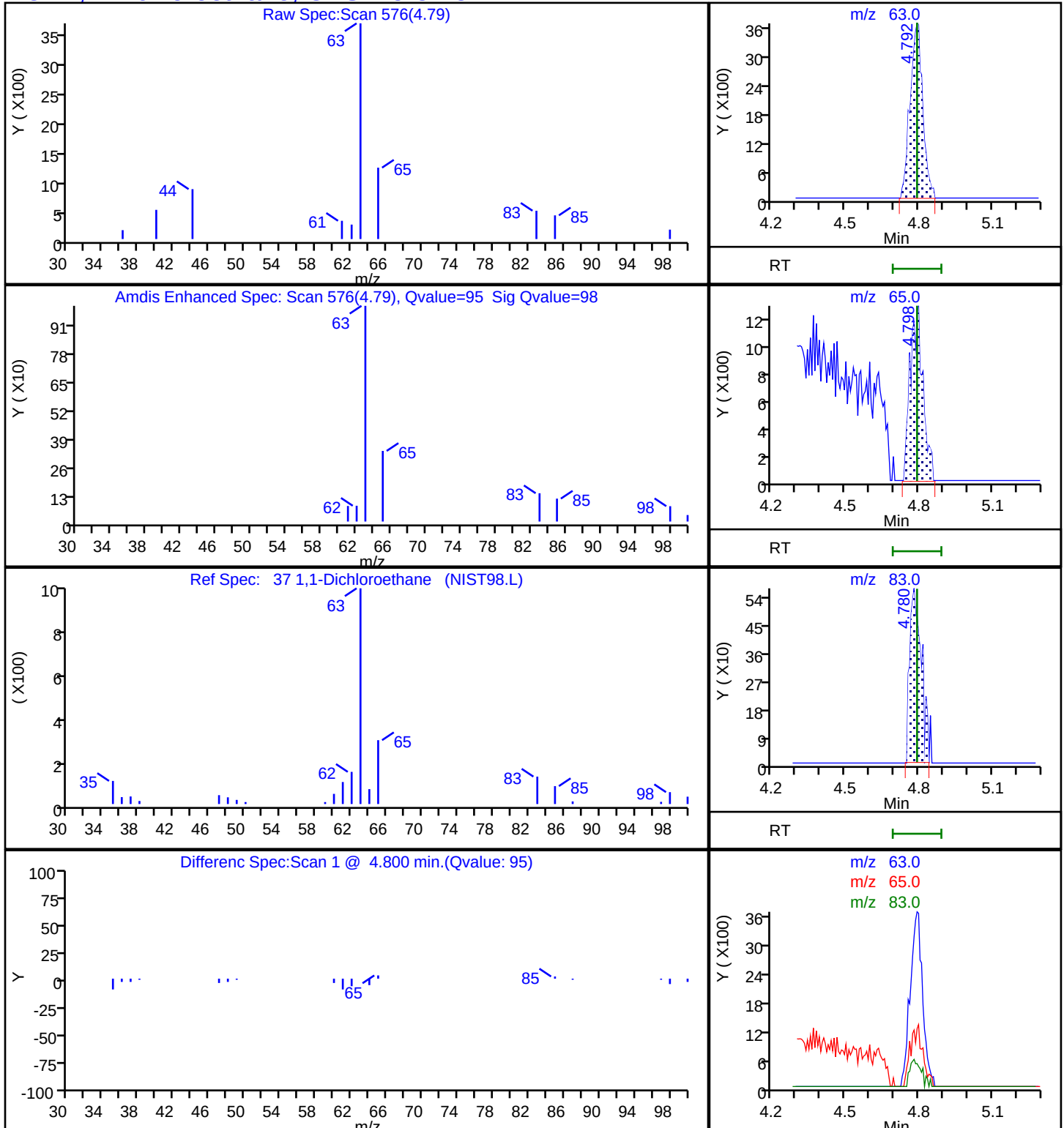
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

37 1,1-Dichloroethane, CAS: 75-34-3

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X18.D

Injection Date: 30-Jul-2024 01:29:30

Instrument ID: 10193

Lims ID: 410-181527-A-6

Lab Sample ID: 410-181527-6

Client ID: HD-COD-SW-15-0/1-0

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

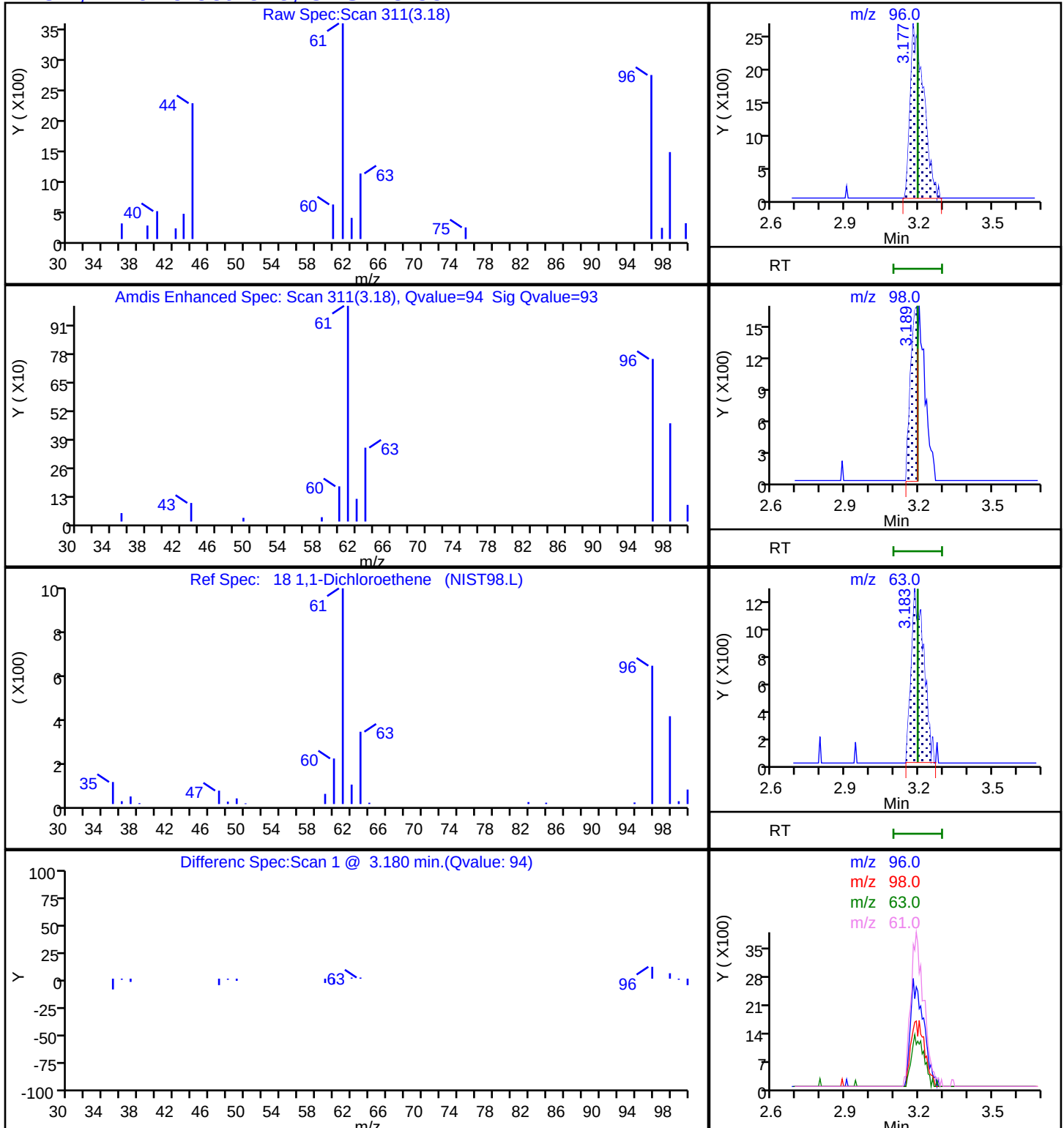
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

18 1,1-Dichloroethene, CAS: 75-35-4

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X18.D

Injection Date: 30-Jul-2024 01:29:30

Instrument ID: 10193

Lims ID: 410-181527-A-6

Lab Sample ID: 410-181527-6

Client ID: HD-COD-SW-15-0/1-0

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

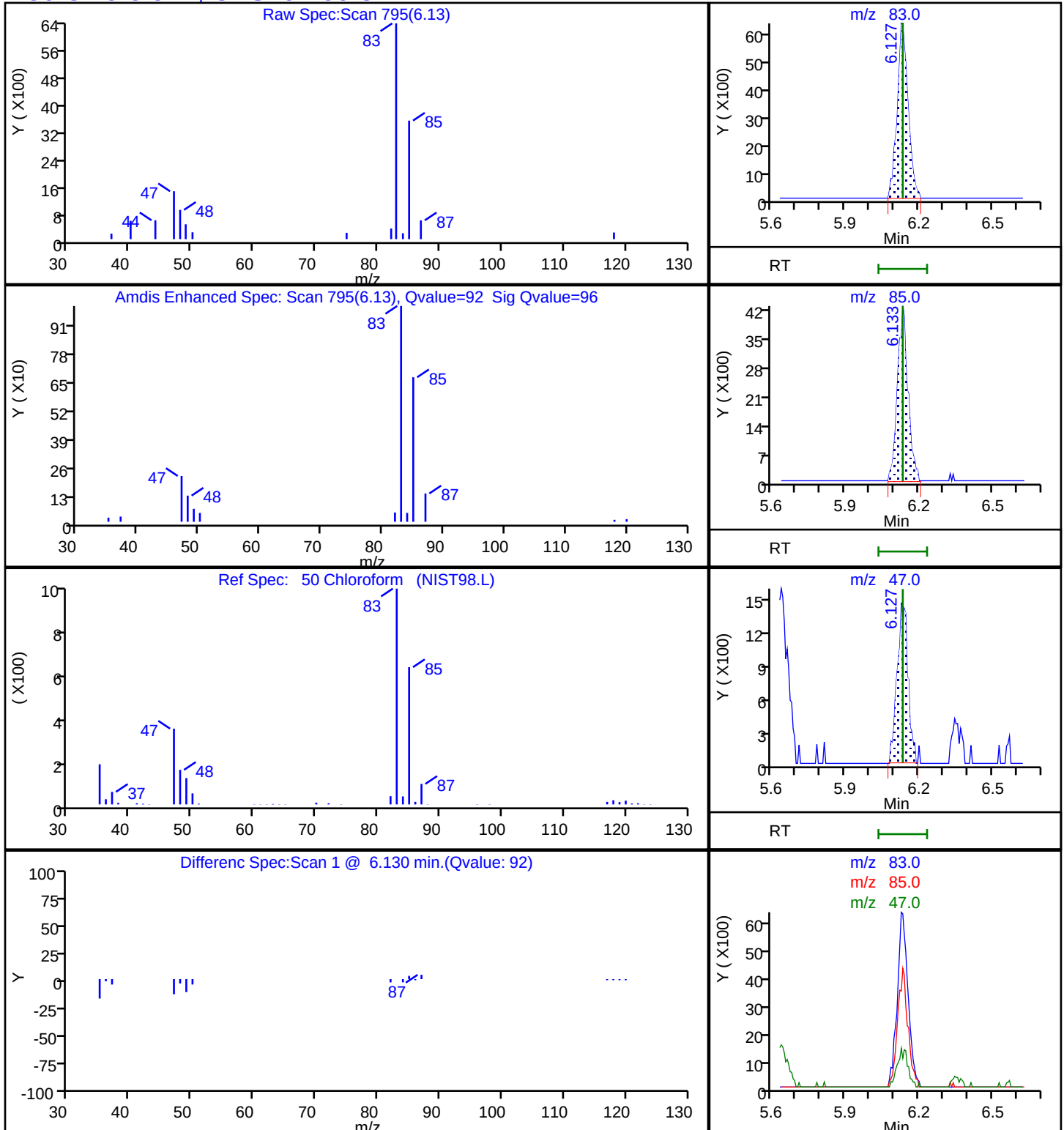
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X18.D

Injection Date: 30-Jul-2024 01:29:30

Instrument ID: 10193

Lims ID: 410-181527-A-6

Lab Sample ID: 410-181527-6

Client ID: HD-COD-SW-15-0/1-0

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

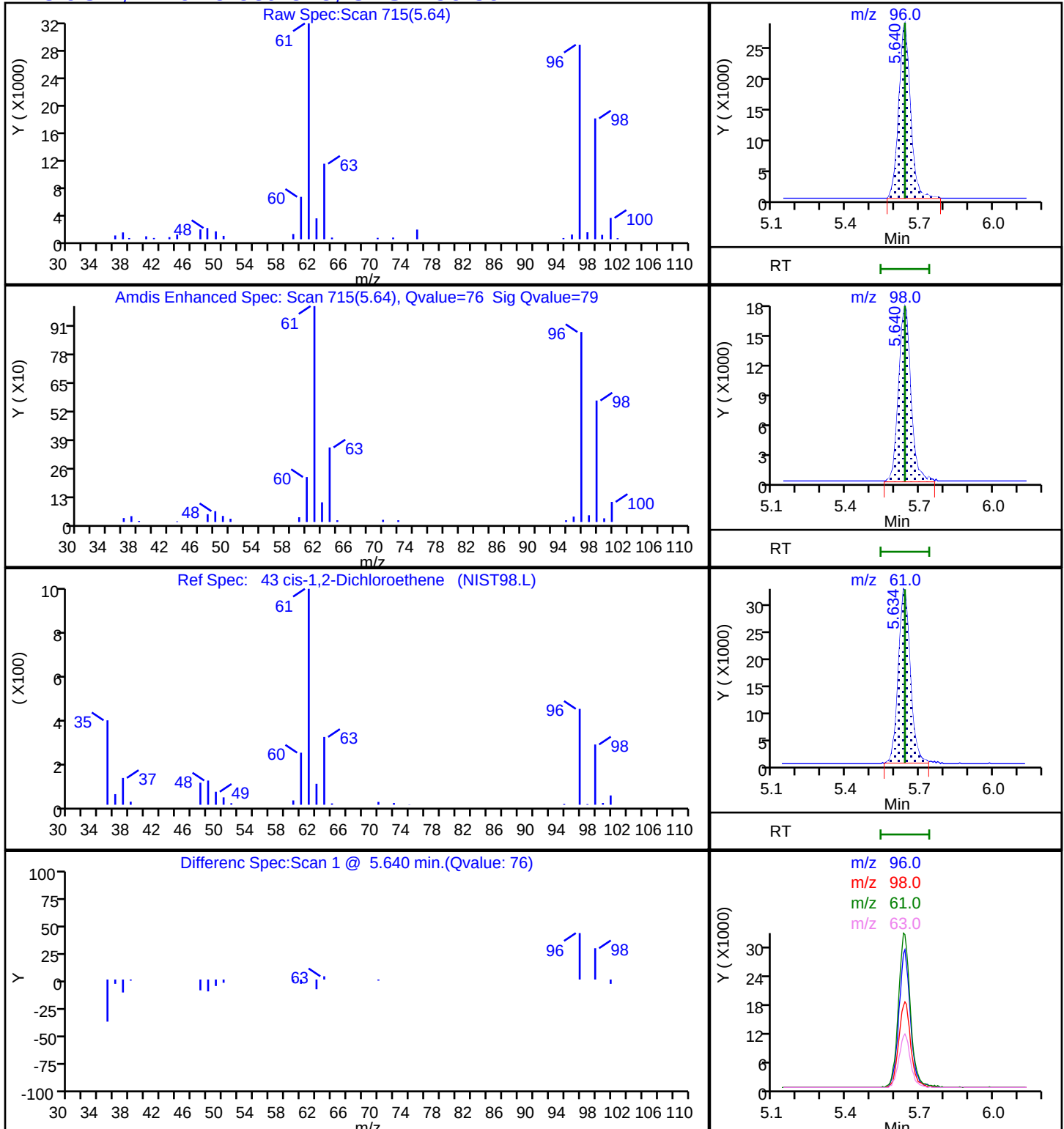
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X18.D

Injection Date: 30-Jul-2024 01:29:30

Instrument ID: 10193

Lims ID: 410-181527-A-6

Lab Sample ID: 410-181527-6

Client ID: HD-COD-SW-15-0/1-0

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

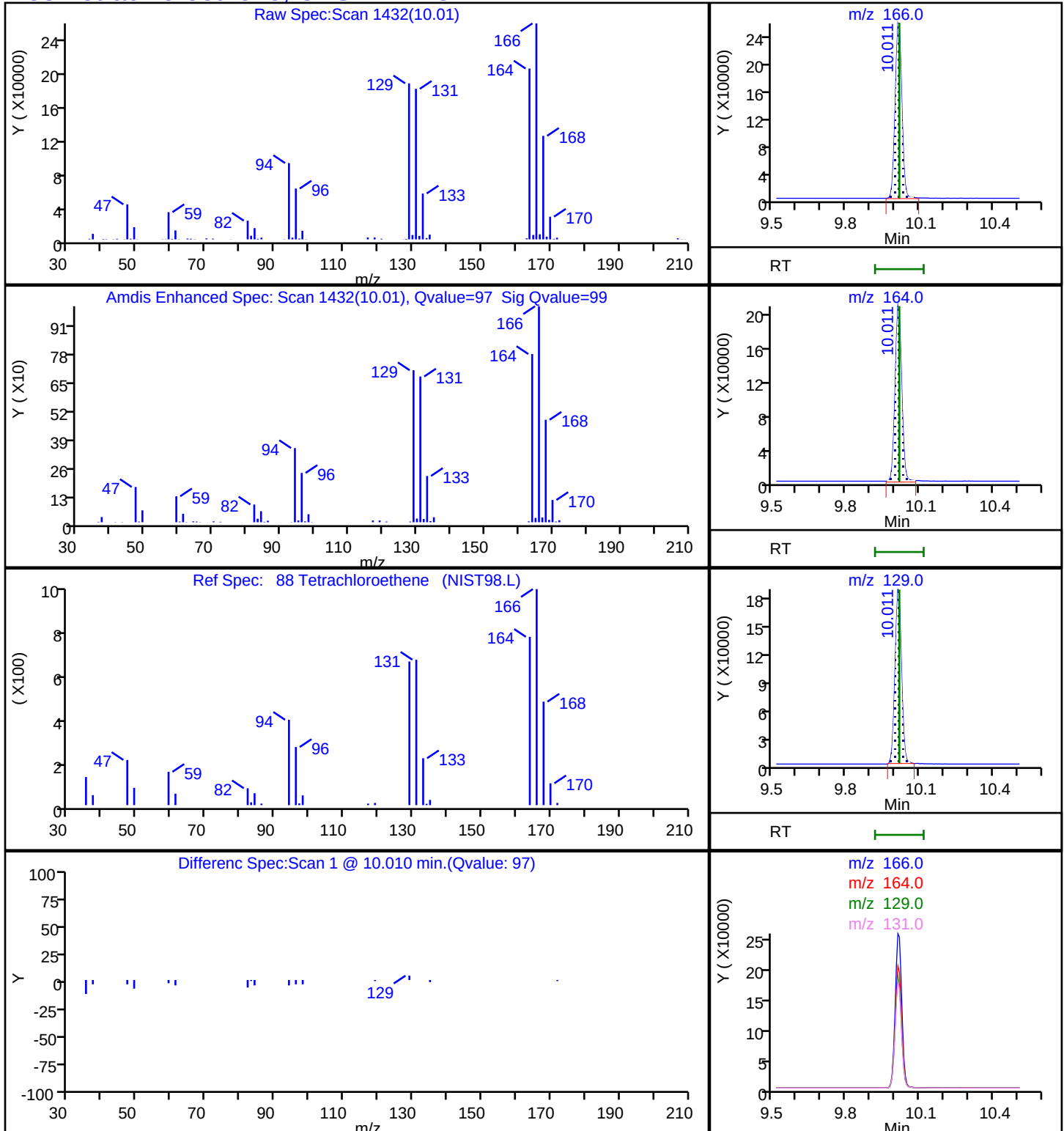
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

88 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X18.D

Injection Date: 30-Jul-2024 01:29:30

Instrument ID: 10193

Lims ID: 410-181527-A-6

Lab Sample ID: 410-181527-6

Client ID: HD-COD-SW-15-0/1-0

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

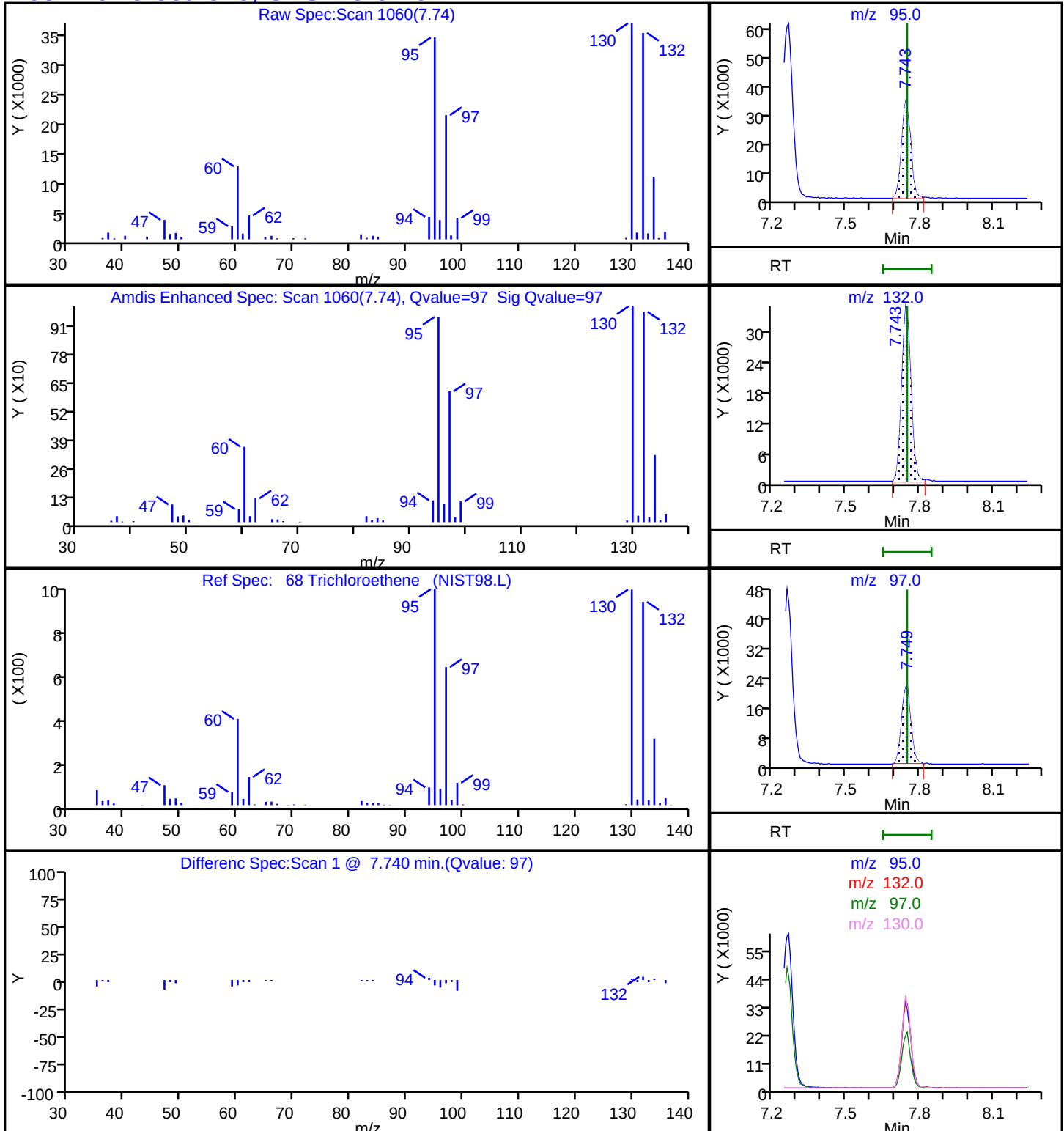
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 150m

MS Quad

68 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0

Lab Sample ID: 410-181527-7

Matrix: Water

Lab File ID: CL29X21.D

Analysis Method: 8260D

Date Collected: 07/25/2024 09:50

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 02:36

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	0.14	J	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.7	J	5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.10	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.20	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	2.1		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0

Lab Sample ID: 410-181527-7

Matrix: Water

Lab File ID: CL29X21.D

Analysis Method: 8260D

Date Collected: 07/25/2024 09:50

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 02:36

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.27	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		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\10193\20240729-120642.b\CL29X21.D
 Lims ID: 410-181527-A-7
 Client ID: HD-COD-SW-16-0/1-0
 Sample Type: Client
 Inject. Date: 30-Jul-2024 02:36:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-022
 Misc. Info.: 410-181527-A-7
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 14:42:14 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:44:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.988	1.988	0.000	1	2932	0.0370	
6 Vinyl chloride	62		2.091				ND	7
9 Bromomethane	94		2.402				ND	
10 Chloroethane	64		2.439				ND	
18 1,1-Dichloroethene	96		3.195				ND	7
20 Acetone	43	3.219	3.213	0.006	99	13241	1.70	
25 Carbon disulfide	76	3.445	3.445	0.000	98	5693	0.0363	
30 Methylene Chloride	84		3.774				ND	
* 31 t-Butyl alcohol-d10 (IS)	65	3.786	3.786	0.000	97	157288	50.0	
34 Methyl tert-butyl ether	73		4.128				ND	7
35 trans-1,2-Dichloroethene	96		4.140				ND	
37 1,1-Dichloroethane	63	4.804	4.792	0.012	1	2920	0.0295	
42 2-Butanone (MEK)	43	5.615	5.609	0.006	97	5584	0.3901	
43 cis-1,2-Dichloroethene	96	5.640	5.640	0.000	78	12930	0.1998	
48 Chlorobromomethane	128		5.975				ND	
50 Chloroform	83	6.139	6.133	0.006	92	10596	0.1011	
\$ 54 Dibromofluoromethane (Surr)	113	6.353	6.359	-0.006	94	511214	10.0	
53 1,1,1-Trichloroethane	97	6.347	6.359	-0.012	36	12476	0.1424	
56 Carbon tetrachloride	117		6.566				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.816	6.816	0.000	99	108674	10.4	
60 Benzene	78		6.841				ND	7
61 1,2-Dichloroethane	62		6.920				ND	
* 65 Fluorobenzene (IS)	96	7.261	7.261	0.000	99	2110168	10.0	
68 Trichloroethene	95	7.743	7.749	-0.006	97	17263	0.2664	
70 1,2-Dichloropropane	63		8.090				ND	
76 Dichlorobromomethane	83		8.450				ND	7
80 cis-1,3-Dichloropropene	75		9.017				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2124379	10.0	
84 Toluene	92	9.425	9.432	-0.007	99	11930	0.0758	
85 trans-1,3-Dichloropropene	75		9.718				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.938				ND	
88 Tetrachloroethene	166	10.011	10.017	-0.006	97	160830	2.06	
106 2-Hexanone	43		10.175				ND	7
108 Chlorodibromomethane	129		10.328				ND	
110 Ethylene Dibromide	107		10.437				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.895	10.895	0.000	84	1656353	10.0	
113 Chlorobenzene	112		10.919				ND	
114 1,1,1,2-Tetrachloroethane	131		11.010				ND	
115 Ethylbenzene	91		11.017				ND	7
116 m-Xylene & p-Xylene	106	11.132	11.138	-0.006	94	6946	0.0549	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.480				ND	7
119 Styrene	104		11.492				ND	7
120 Bromoform	173		11.651				ND	7
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	96	749029	9.39	
126 1,1,2,2-Tetrachloroethane	83		12.047				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.839	12.839	0.000	93	916765	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 30-Jul-2024 14:44:12

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X21.D

Injection Date: 30-Jul-2024 02:36:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-A-7

Lab Sample ID: 410-181527-7

Worklist Smp#: 22

Client ID: HD-COD-SW-16-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

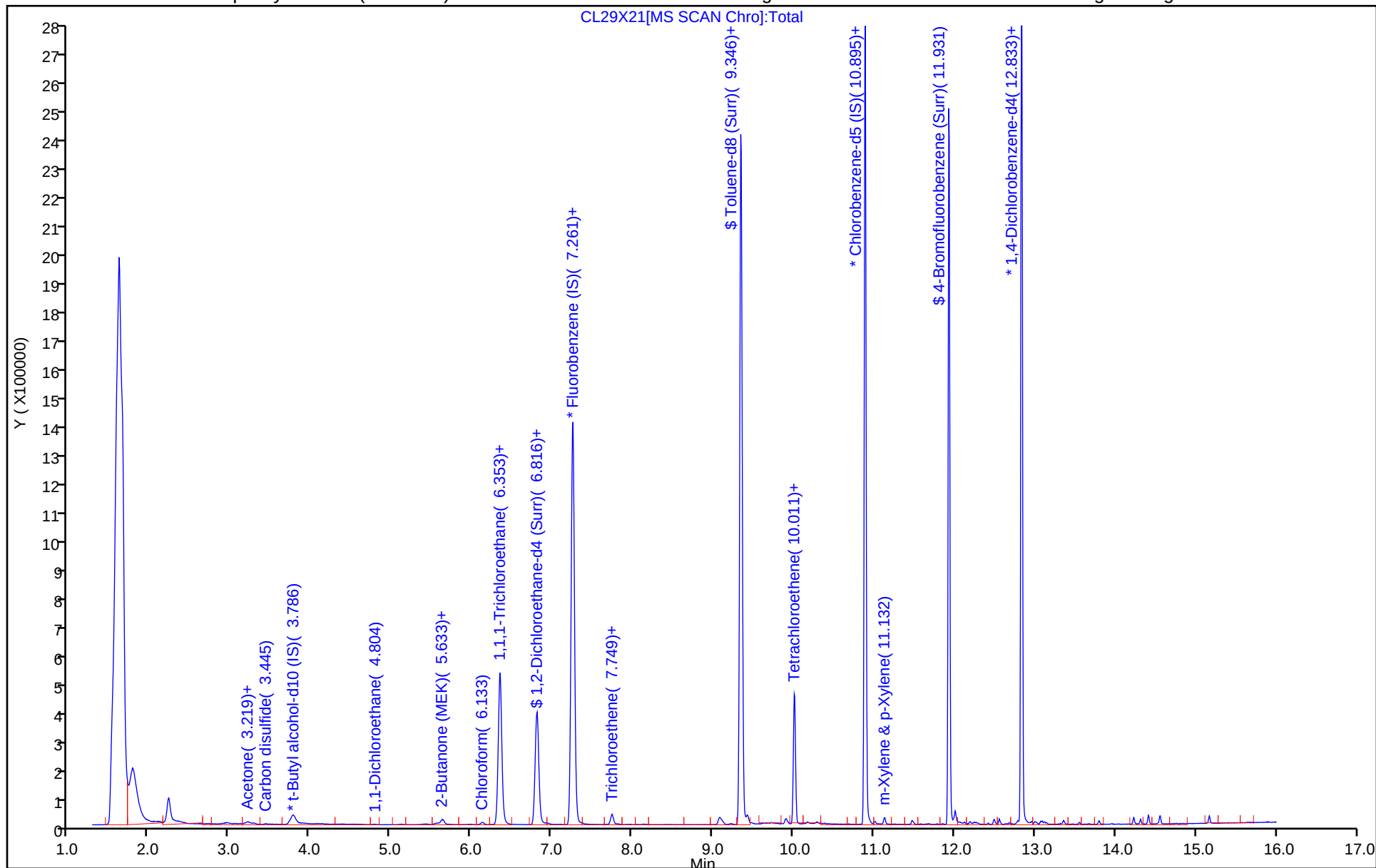
ALS Bottle#: 21

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X21.D
Lims ID: 410-181527-A-7
Client ID: HD-COD-SW-16-0/1-0
Sample Type: Client
Inject. Date: 30-Jul-2024 02:36:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-022
Misc. Info.: 410-181527-A-7
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 14:42:14 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:44:11

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.0	100.04
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.95
\$ 83 Toluene-d8 (Surr)	10.0	10.0	100.10
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.39	93.89

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X21.D

Injection Date: 30-Jul-2024 02:36:30

Instrument ID: 10193

Lims ID: 410-181527-A-7

Lab Sample ID: 410-181527-7

Client ID: HD-COD-SW-16-0/1-0

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

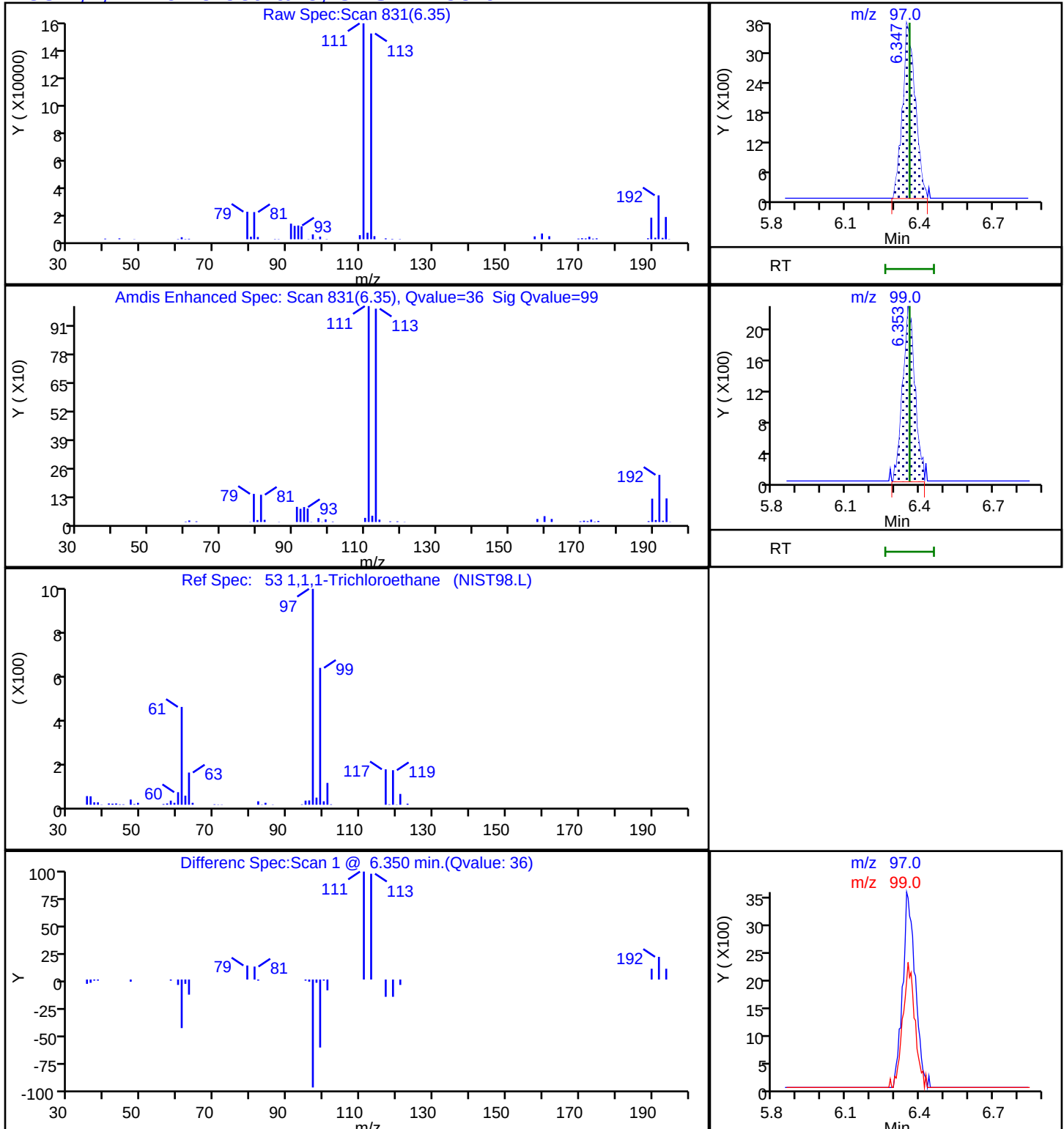
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 30m

MS Quad

53 1,1,1-Trichloroethane, CAS: 71-55-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X21.D

Injection Date: 30-Jul-2024 02:36:30

Instrument ID: 10193

Lims ID: 410-181527-A-7

Lab Sample ID: 410-181527-7

Client ID: HD-COD-SW-16-0/1-0

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

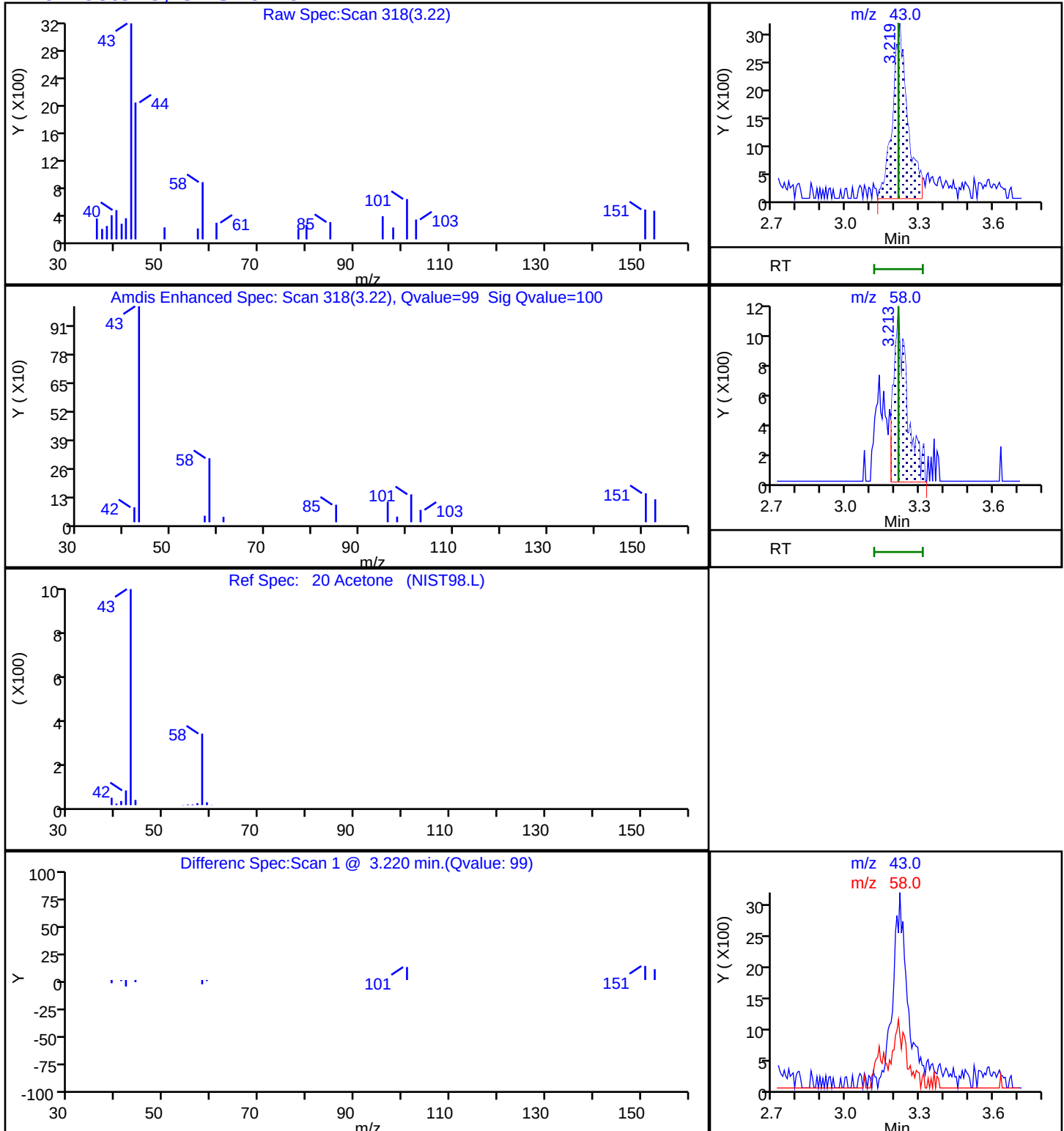
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

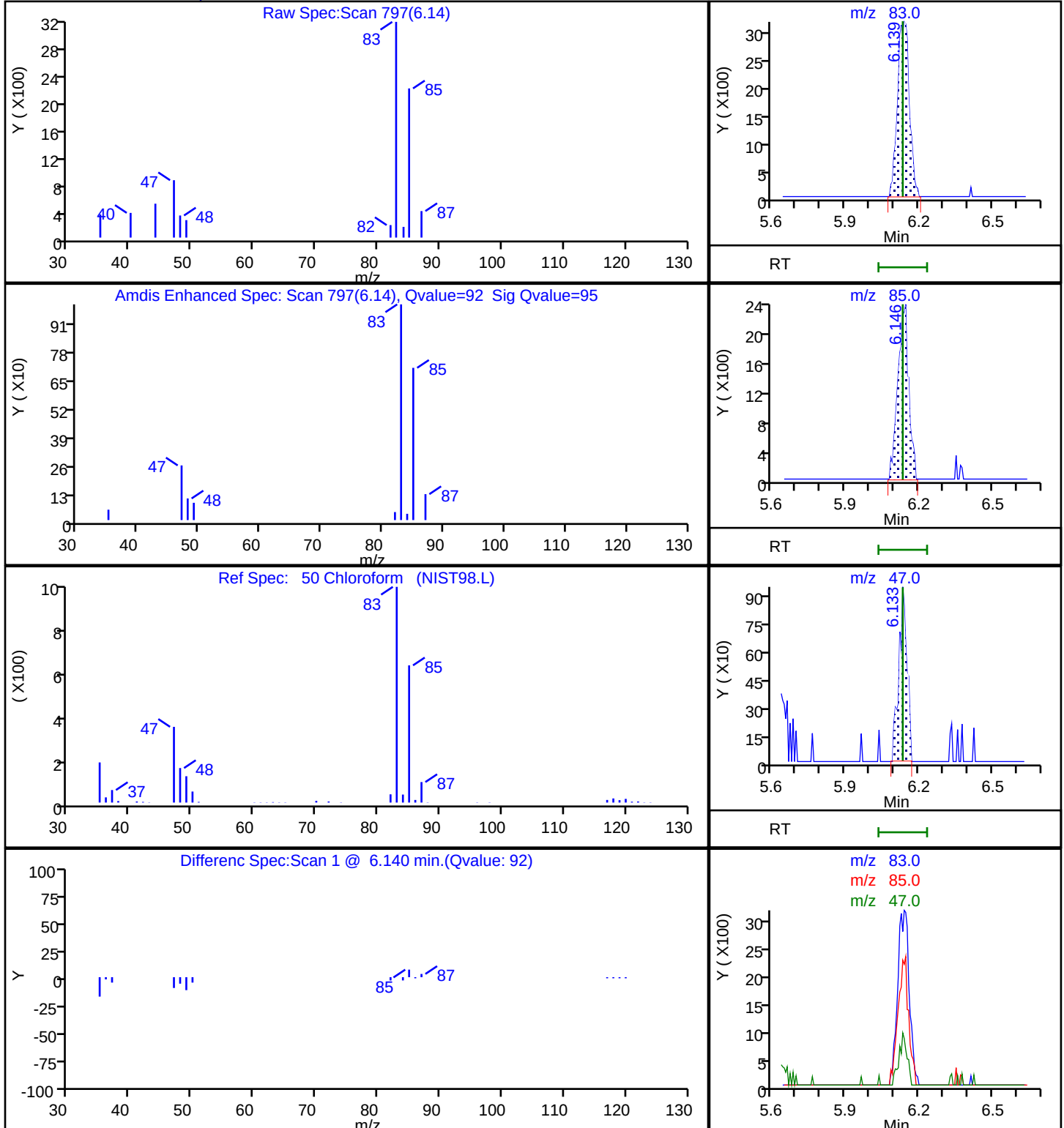
MS Quad

20 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X21.D
Injection Date: 30-Jul-2024 02:36:30 Instrument ID: 10193
Lims ID: 410-181527-A-7 Lab Sample ID: 410-181527-7
Client ID: HD-COD-SW-16-0/1-0
Operator ID: gaw91131 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X21.D

Injection Date: 30-Jul-2024 02:36:30

Instrument ID: 10193

Lims ID: 410-181527-A-7

Lab Sample ID: 410-181527-7

Client ID: HD-COD-SW-16-0/1-0

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

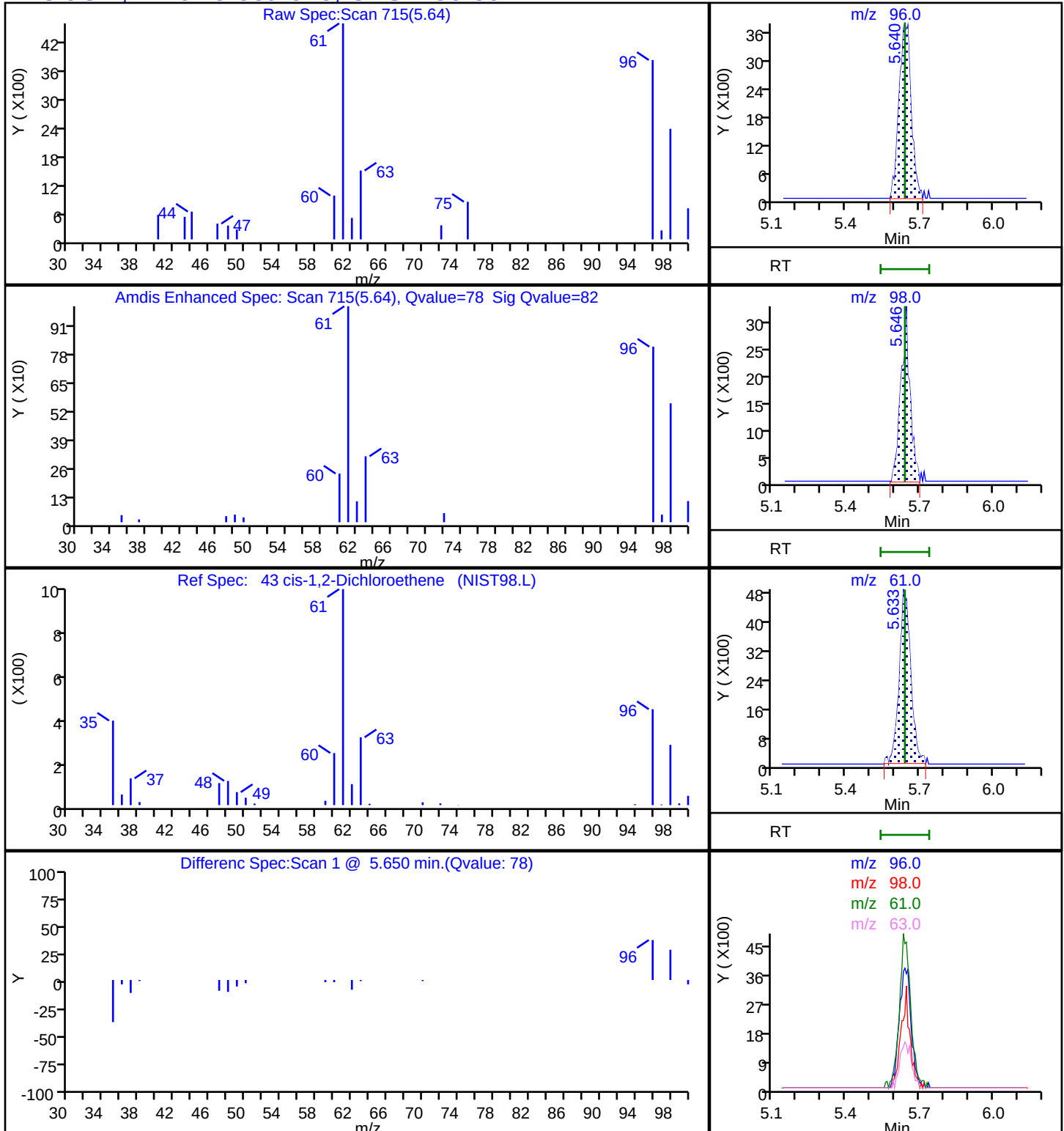
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 100m

MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X21.D

Injection Date: 30-Jul-2024 02:36:30

Instrument ID: 10193

Lims ID: 410-181527-A-7

Lab Sample ID: 410-181527-7

Client ID: HD-COD-SW-16-0/1-0

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

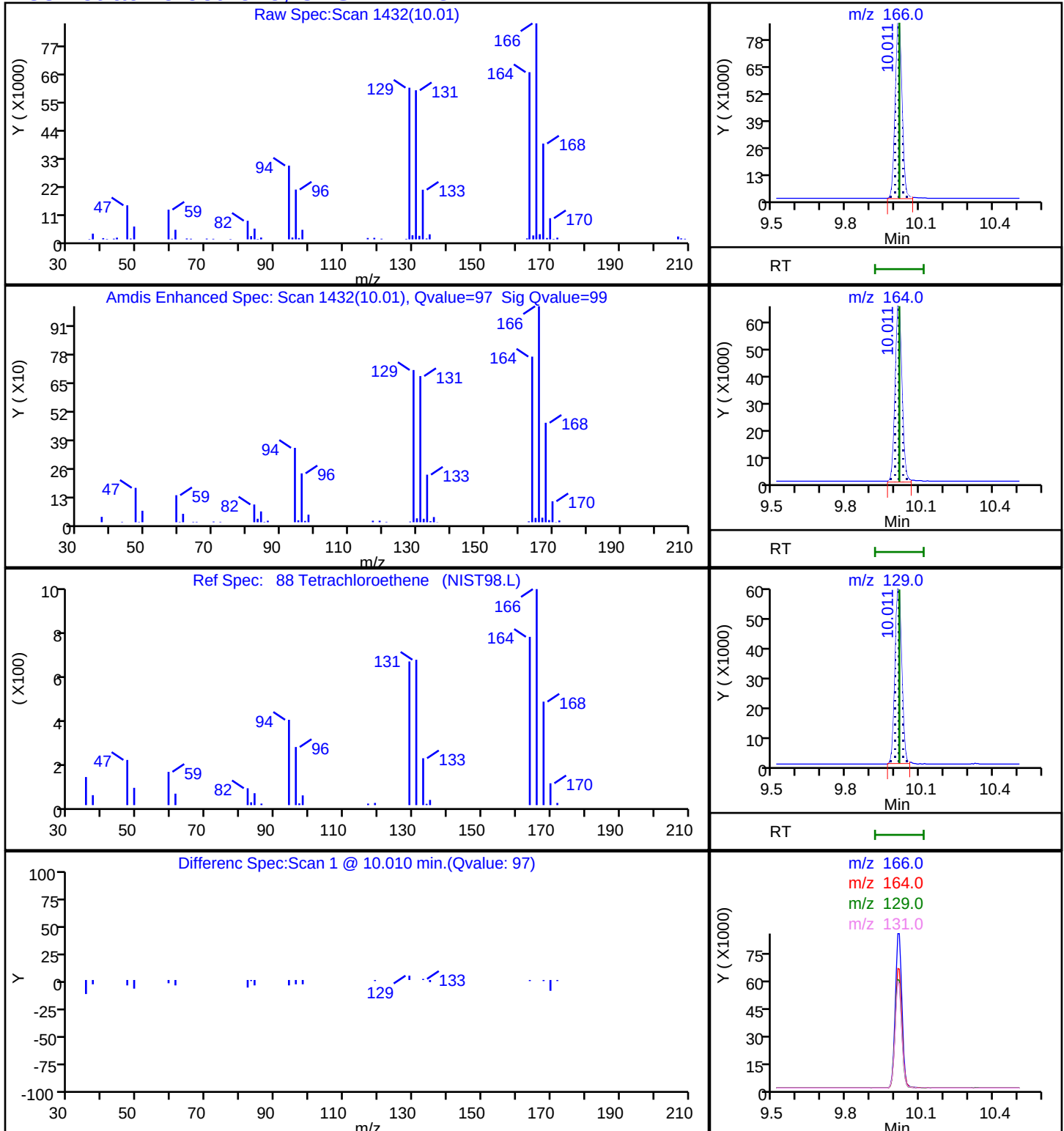
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

88 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X21.D

Injection Date: 30-Jul-2024 02:36:30

Instrument ID: 10193

Lims ID: 410-181527-A-7

Lab Sample ID: 410-181527-7

Client ID: HD-COD-SW-16-0/1-0

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

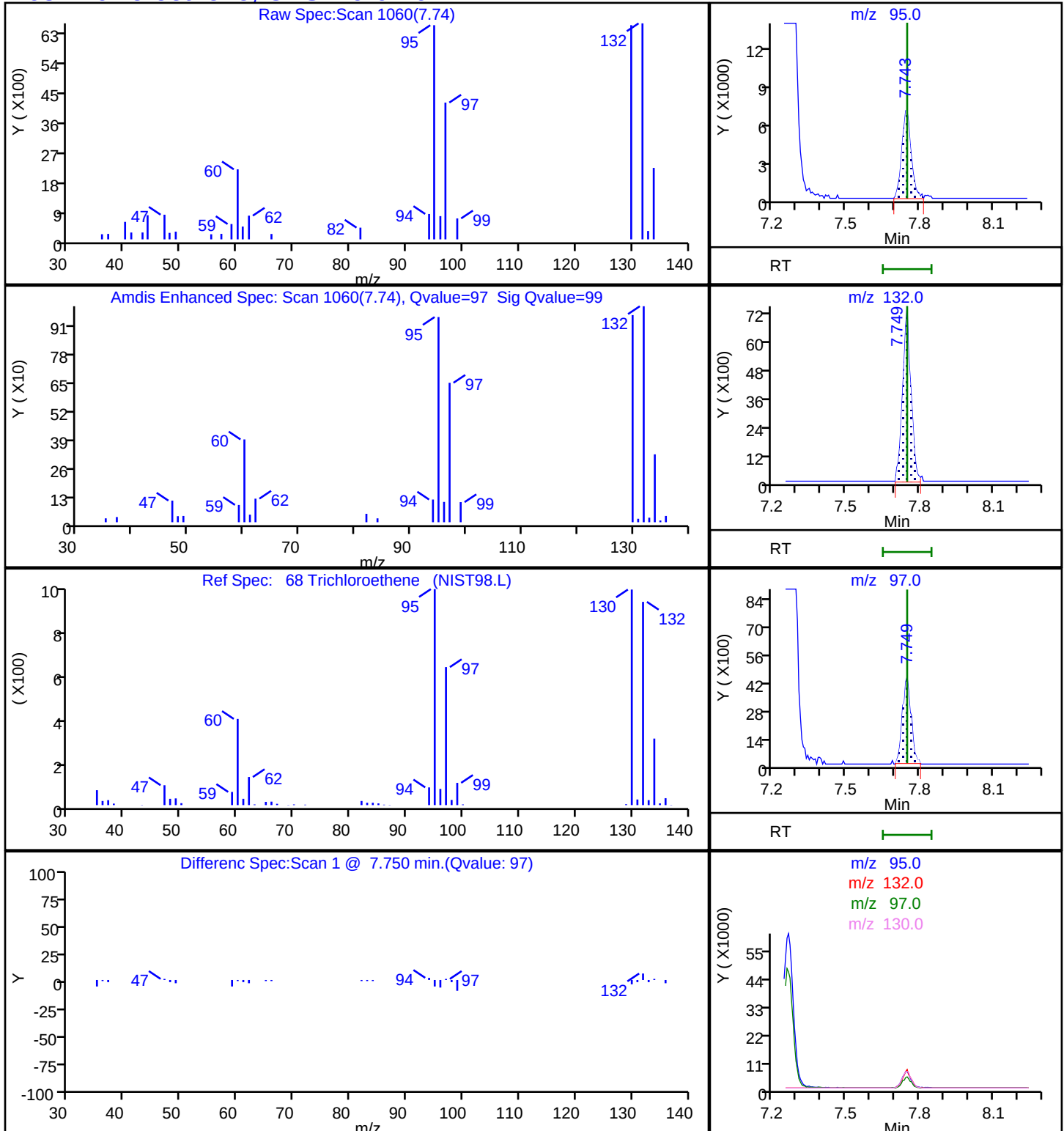
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 30m

MS Quad

68 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0

Lab Sample ID: 410-181527-8

Matrix: Water

Lab File ID: CL29X26.D

Analysis Method: 8260D

Date Collected: 07/25/2024 10:05

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 04:28

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	12		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	2.1		0.50	0.10
75-35-4	1,1-Dichloroethene	0.98		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.17	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	3.2		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0

Lab Sample ID: 410-181527-8

Matrix: Water

Lab File ID: CL29X26.D

Analysis Method: 8260D

Date Collected: 07/25/2024 10:05

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 04:28

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	6.4		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X26.D
 Lims ID: 410-181527-A-8
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 30-Jul-2024 04:28:30 ALS Bottle#: 26 Worklist Smp#: 27
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-027
 Misc. Info.: 410-181527-A-8
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 09:44:21 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1626

First Level Reviewer: DVW2

Date: 30-Jul-2024 09:41:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.988				ND	
6 Vinyl chloride	62		2.091				ND	7
9 Bromomethane	94		2.402				ND	
10 Chloroethane	64		2.439				ND	
18 1,1-Dichloroethene	96	3.189	3.195	-0.006	97	46909	0.9760	
20 Acetone	43		3.213				ND	7
25 Carbon disulfide	76		3.445				ND	7
30 Methylene Chloride	84		3.774				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.780	3.786	-0.006	97	165973	50.0	
34 Methyl tert-butyl ether	73	4.128	4.128	0.000	94	4360	0.0297	M
35 trans-1,2-Dichloroethene	96	4.140	4.140	0.000	96	3089	0.0539	
37 1,1-Dichloroethane	63	4.792	4.792	0.000	96	204491	2.08	
42 2-Butanone (MEK)	43		5.609				ND	7
43 cis-1,2-Dichloroethene	96	5.640	5.640	0.000	76	208420	3.24	
48 Chlorobromomethane	128		5.975				ND	
50 Chloroform	83	6.133	6.133	0.000	90	18252	0.1749	
\$ 54 Dibromofluoromethane (Surr)	113	6.353	6.359	-0.006	73	514576	10.1	
53 1,1,1-Trichloroethane	97	6.359	6.359	0.000	97	1022351	11.7	
56 Carbon tetrachloride	117	6.572	6.566	0.006	91	3118	0.0395	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.816	6.816	0.000	99	109127	10.5	
60 Benzene	78		6.841				ND	U
61 1,2-Dichloroethane	62		6.920				ND	
* 65 Fluorobenzene (IS)	96	7.261	7.261	0.000	100	2100560	10.0	
68 Trichloroethene	95	7.749	7.749	0.000	97	415127	6.44	
70 1,2-Dichloropropane	63		8.090				ND	
76 Dichlorobromomethane	83		8.450				ND	
80 cis-1,3-Dichloropropene	75		9.017				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.352	9.352	0.000	93	2108359	9.61	
84 Toluene	92	9.425	9.432	-0.007	51	4618	0.0284	
85 trans-1,3-Dichloropropene	75		9.718				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.938				ND	7
88 Tetrachloroethene	166	10.017	10.017	0.000	95	13449617	166.5	E
106 2-Hexanone	43		10.175				ND	7
108 Chlorodibromomethane	129		10.328				ND	
110 Ethylene Dibromide	107		10.437				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.895	10.895	0.000	84	1712804	10.0	
113 Chlorobenzene	112		10.919				ND	
114 1,1,1,2-Tetrachloroethane	131		11.010				ND	7
115 Ethylbenzene	91		11.017				ND	7
116 m-Xylene & p-Xylene	106		11.138				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.480				ND	7
119 Styrene	104		11.492				ND	7
120 Bromoform	173		11.651				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	97	769244	9.32	
126 1,1,2,2-Tetrachloroethane	83		12.047				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.839	12.839	0.000	93	951355	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 30-Jul-2024 09:44:29

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X26.D

Injection Date: 30-Jul-2024 04:28:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-A-8

Lab Sample ID: 410-181527-8

Worklist Smp#: 27

Client ID: HD-COD-SW-17-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

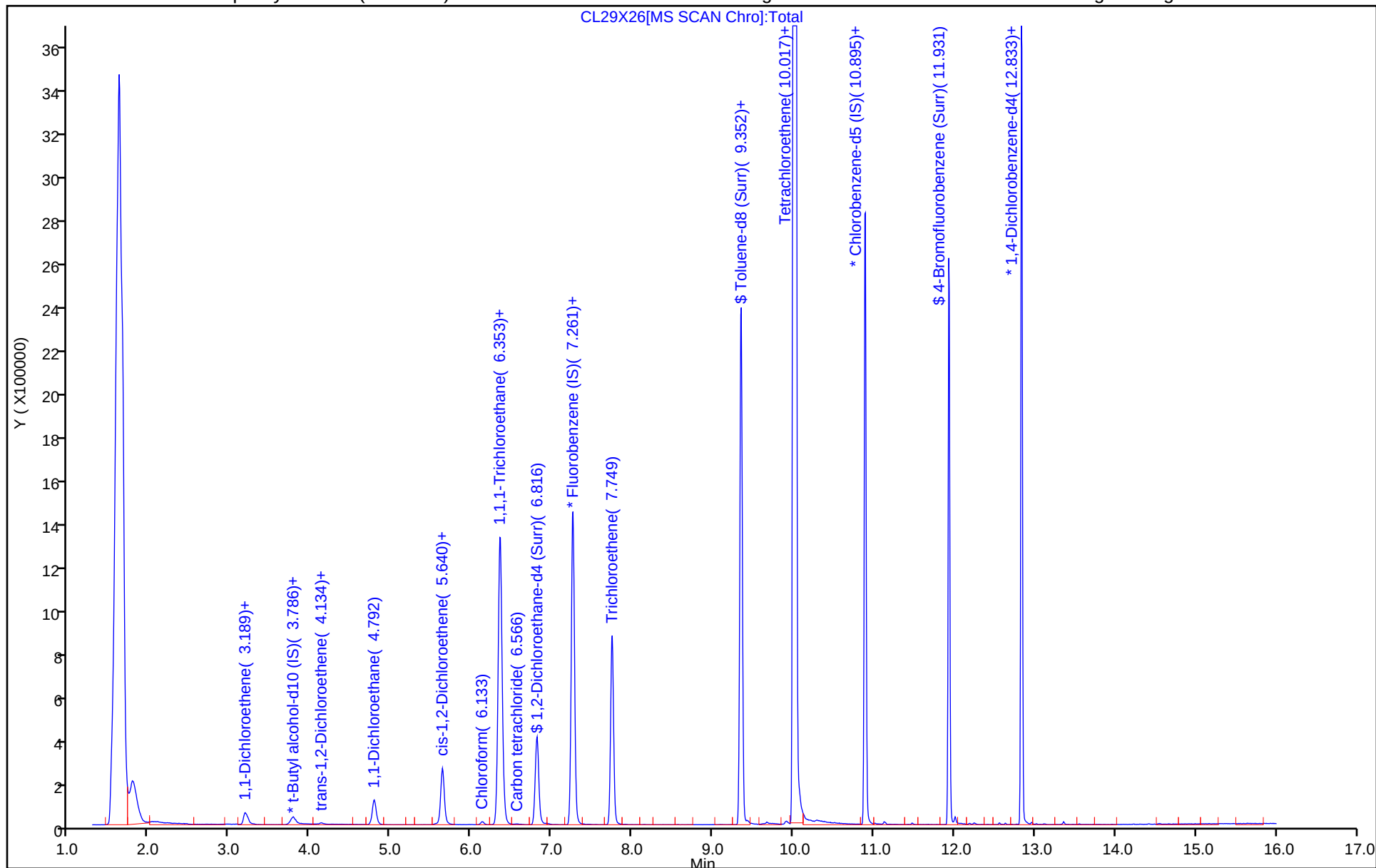
ALS Bottle#: 26

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X26.D
Lims ID: 410-181527-A-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 30-Jul-2024 04:28:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-027
Misc. Info.: 410-181527-A-8
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 09:44:21 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1626

First Level Reviewer: DVW2

Date: 30-Jul-2024 09:41:55

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.1	101.16
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.86
\$ 83 Toluene-d8 (Surr)	10.0	9.61	96.07
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.32	93.24

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X26.D

Injection Date: 30-Jul-2024 04:28:30

Instrument ID: 10193

Lims ID: 410-181527-A-8

Lab Sample ID: 410-181527-8

Client ID: HD-COD-SW-17-0/1-0

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

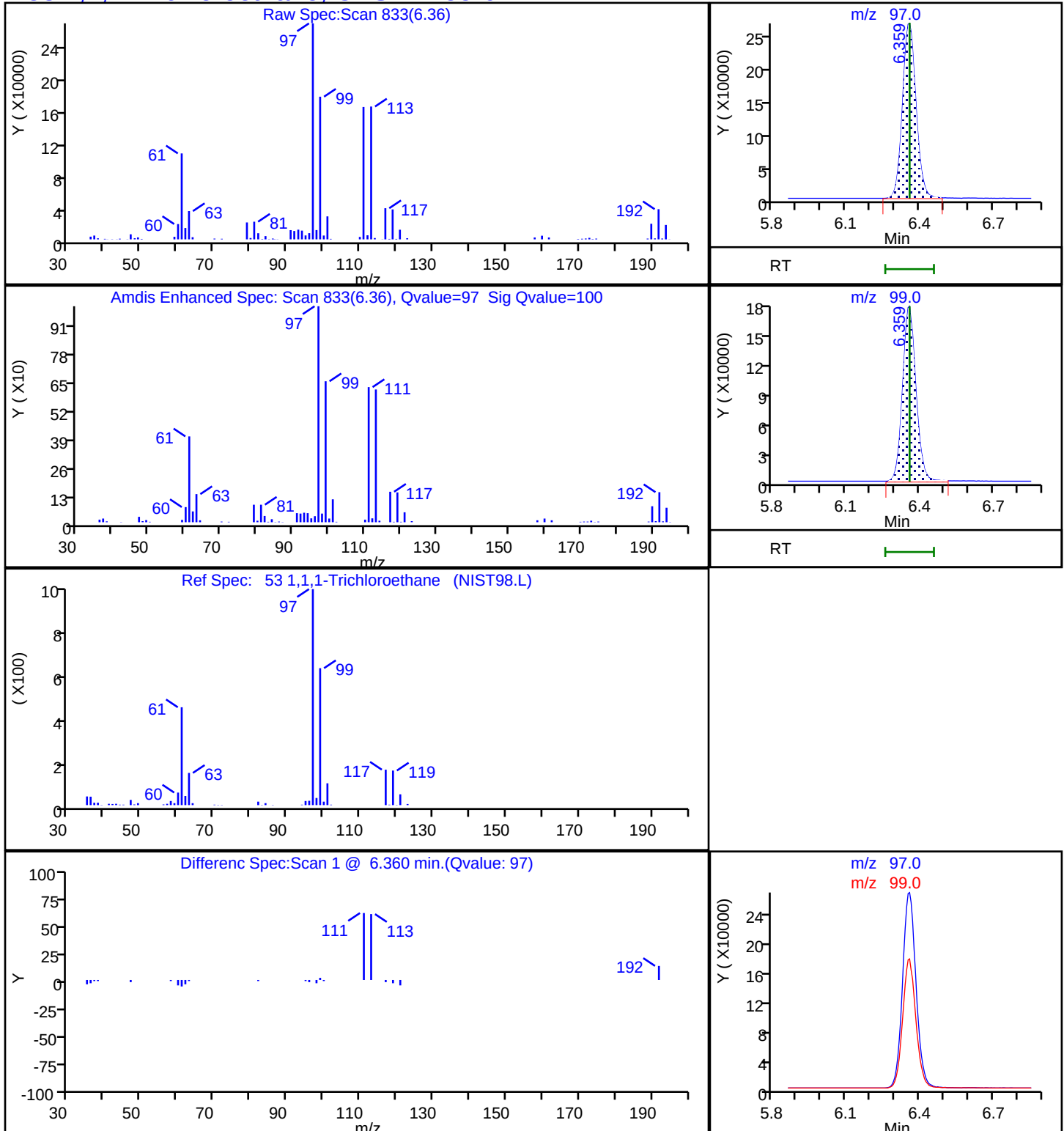
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 100m

MS Quad

53 1,1,1-Trichloroethane, CAS: 71-55-6

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X26.D

Injection Date: 30-Jul-2024 04:28:30

Instrument ID: 10193

Lims ID: 410-181527-A-8

Lab Sample ID: 410-181527-8

Client ID: HD-COD-SW-17-0/1-0

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

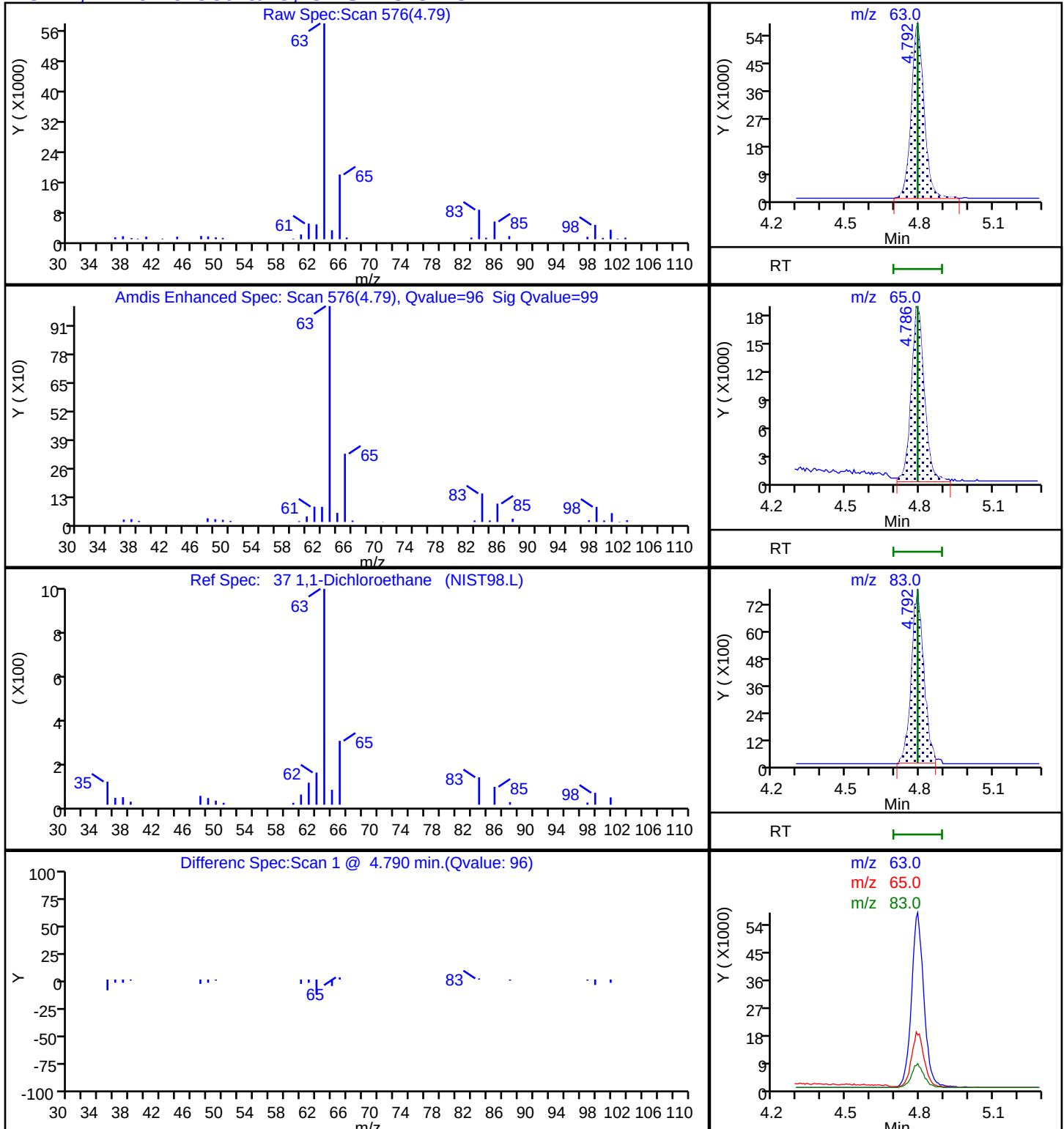
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

37 1,1-Dichloroethane, CAS: 75-34-3

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X26.D

Injection Date: 30-Jul-2024 04:28:30

Instrument ID: 10193

Lims ID: 410-181527-A-8

Lab Sample ID: 410-181527-8

Client ID: HD-COD-SW-17-0/1-0

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

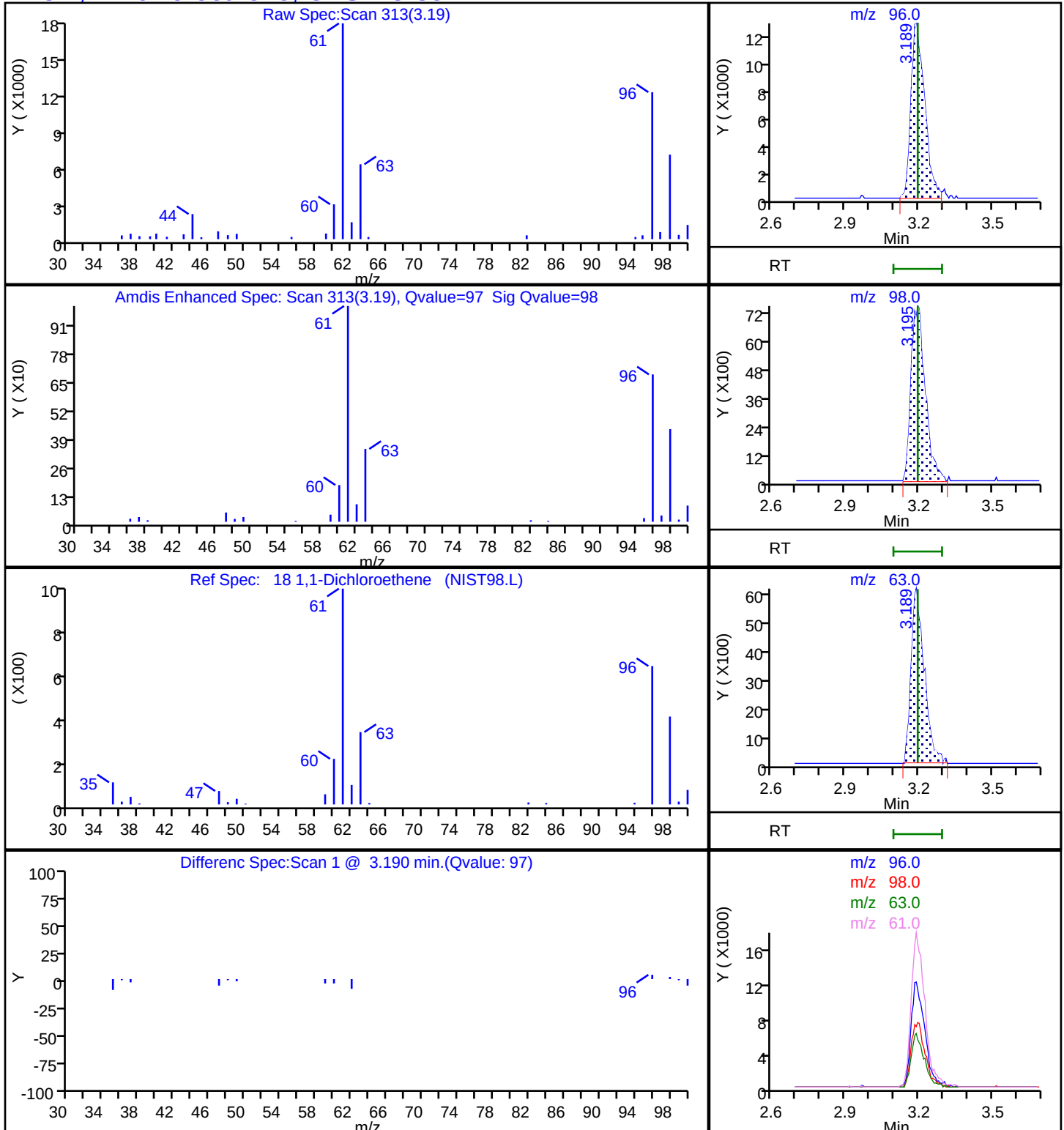
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

18 1,1-Dichloroethene, CAS: 75-35-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X26.D

Injection Date: 30-Jul-2024 04:28:30

Instrument ID: 10193

Lims ID: 410-181527-A-8

Lab Sample ID: 410-181527-8

Client ID: HD-COD-SW-17-0/1-0

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

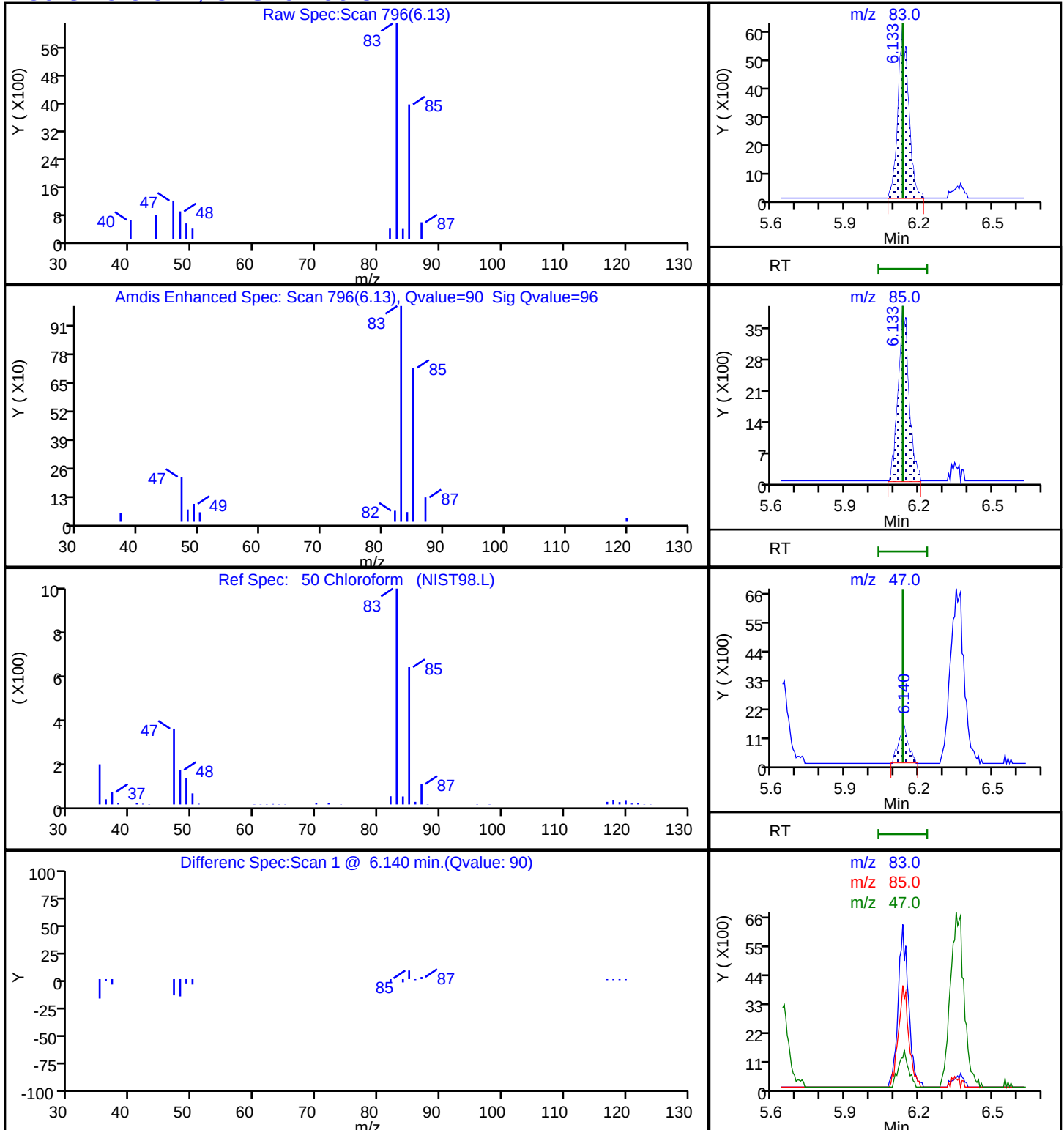
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X26.D

Injection Date: 30-Jul-2024 04:28:30

Instrument ID: 10193

Lims ID: 410-181527-A-8

Lab Sample ID: 410-181527-8

Client ID: HD-COD-SW-17-0/1-0

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

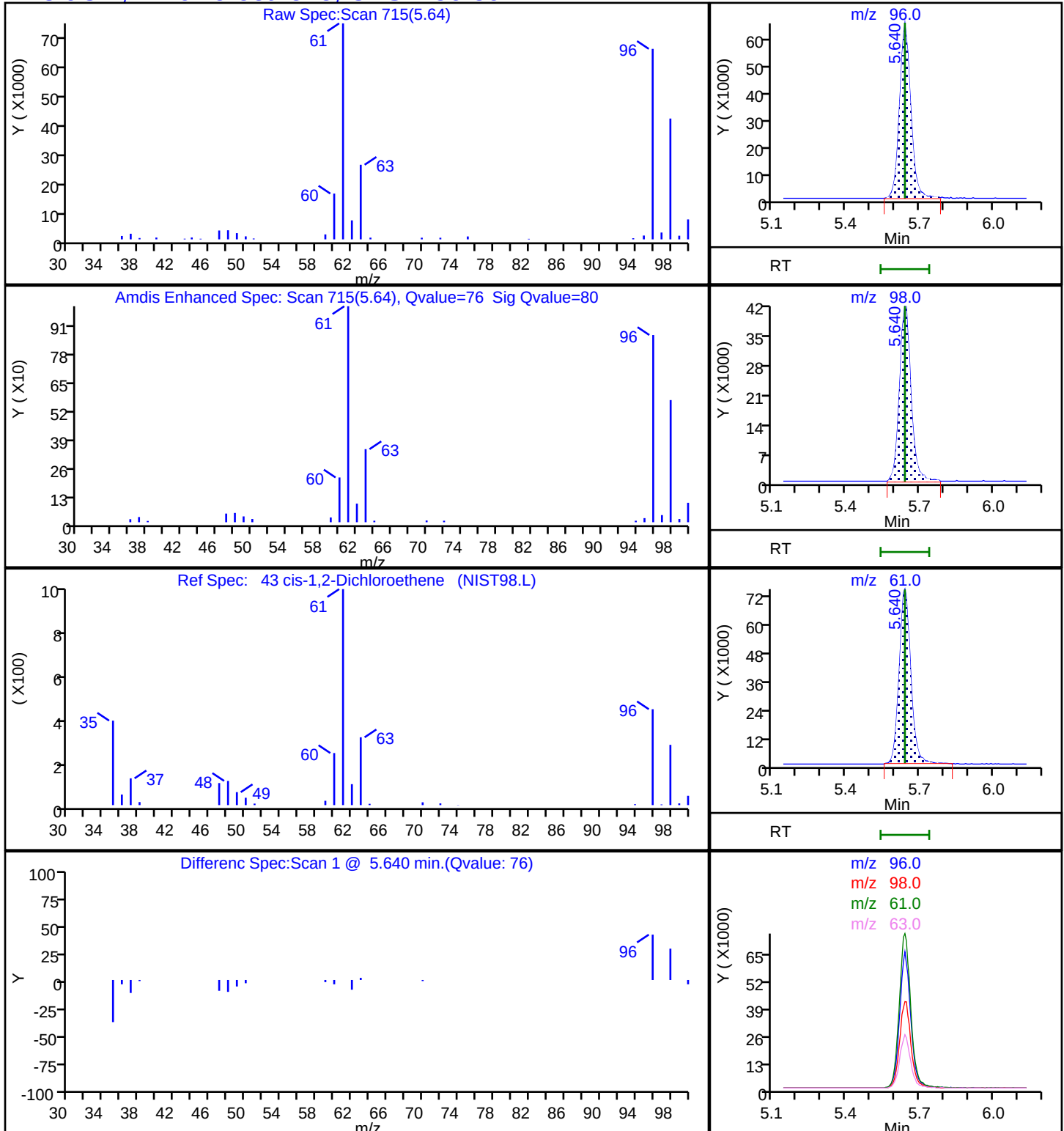
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X26.D

Injection Date: 30-Jul-2024 04:28:30

Instrument ID: 10193

Lims ID: 410-181527-A-8

Lab Sample ID: 410-181527-8

Client ID: HD-COD-SW-17-0/1-0

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

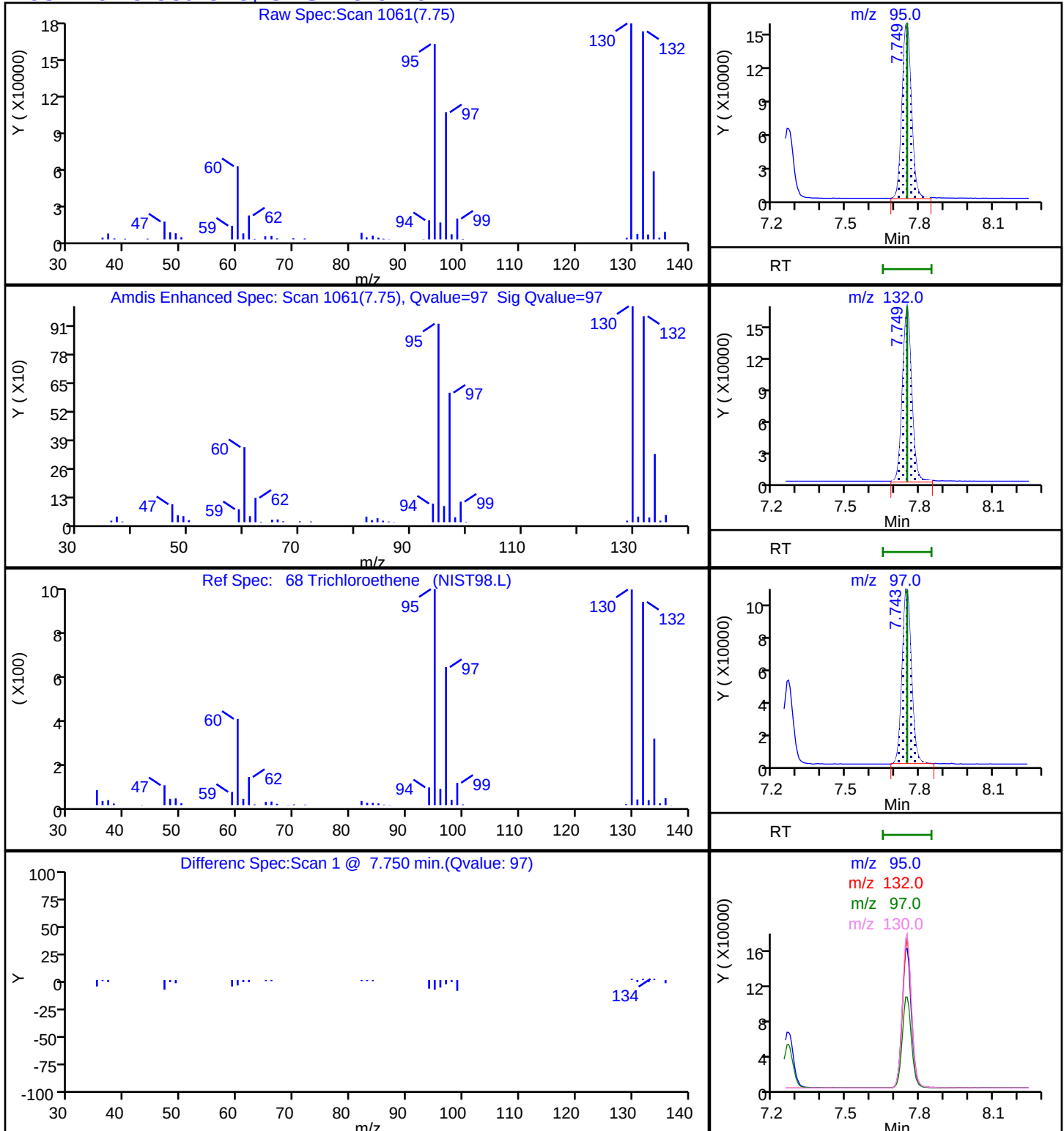
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 30m

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

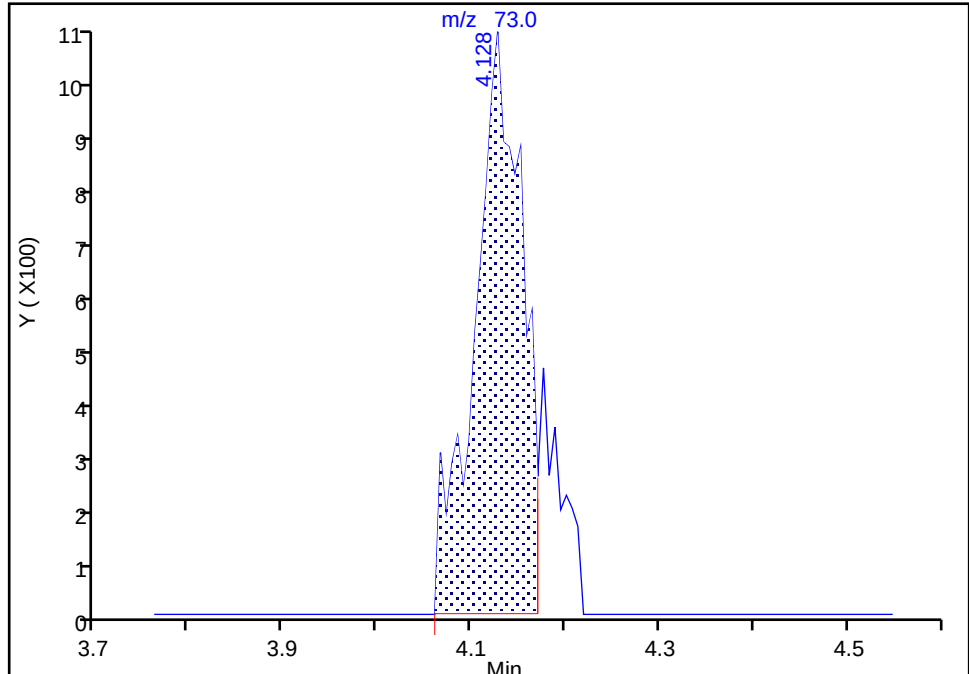
Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X26.D
Injection Date: 30-Jul-2024 04:28:30 Instrument ID: 10193
Lims ID: 410-181527-A-8 Lab Sample ID: 410-181527-8
Client ID: HD-COD-SW-17-0/1-0
Operator ID: gaw91131 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

34 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

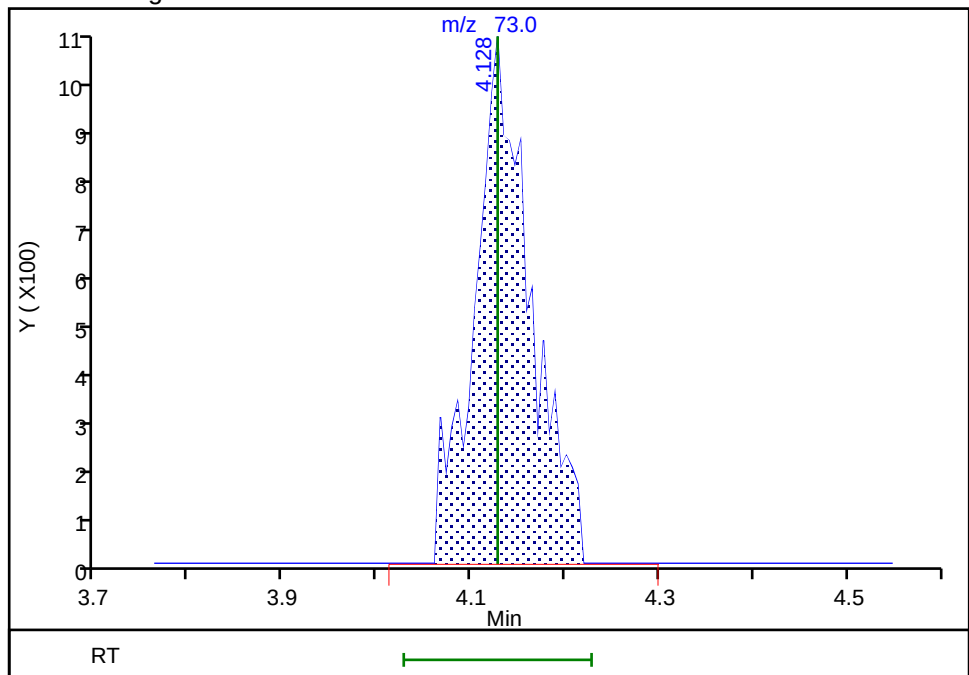
RT: 4.13
Area: 3705
Amount: 0.025260
Amount Units: ug/l

Processing Integration Results



RT: 4.13
Area: 4360
Amount: 0.029725
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 30-Jul-2024 09:41:19 -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.: 410-181527-1

SDG No. :

Client Sample ID: HD-COD-SW-17-0/1-0 DL

Lab Sample ID: 410-181527-8 DL

Matrix: Water

Lab File ID: CL29X27.D

Analysis Method: 8260D

Date Collected: 07/25/2024 10:05

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 04:50

Soil Aliquot Vol:

Dilution Factor: 10

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	140		5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X27.D
 Lims ID: 410-181527-B-8 DL
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 30-Jul-2024 04:50:30 ALS Bottle#: 27 Worklist Smp#: 28
 Purge Vol: 25.000 mL Dil. Factor: 10.0000
 Sample Info: 410-0120642-028
 Misc. Info.: 410-181527-B-8
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 09:44:21 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1626

First Level Reviewer: DVW2

Date: 30-Jul-2024 09:42:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.988				ND	
6 Vinyl chloride	62		2.091				ND	
9 Bromomethane	94		2.402				ND	
10 Chloroethane	64		2.439				ND	
18 1,1-Dichloroethene	96	3.165	3.195	-0.030	92	3638	0.0772	
20 Acetone	43	3.213	3.213	0.000	57	3987	0.5781	
25 Carbon disulfide	76		3.445				ND	
30 Methylene Chloride	84		3.774				ND	U
* 31 t-Butyl alcohol-d10 (IS)	65	3.780	3.786	-0.006	96	139071	50.0	
34 Methyl tert-butyl ether	73		4.128				ND	
35 trans-1,2-Dichloroethene	96	4.128	4.140	-0.012	42	1661	0.0295	
37 1,1-Dichloroethane	63	4.786	4.792	-0.006	95	18378	0.1902	
42 2-Butanone (MEK)	43		5.609				ND	
43 cis-1,2-Dichloroethene	96	5.640	5.640	0.000	76	20785	0.3291	
48 Chlorobromomethane	128		5.975				ND	
50 Chloroform	83		6.133				ND	MU
\$ 54 Dibromofluoromethane (Surr)	113	6.353	6.359	-0.006	94	499085	10.0	
53 1,1,1-Trichloroethane	97	6.347	6.359	-0.012	43	83091	0.9719	
56 Carbon tetrachloride	117		6.566				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.810	6.816	-0.006	99	105784	10.4	
60 Benzene	78		6.841				ND	U
61 1,2-Dichloroethane	62		6.920				ND	
* 65 Fluorobenzene (IS)	96	7.255	7.261	-0.006	99	2059653	10.0	
68 Trichloroethene	95	7.743	7.749	-0.006	96	35514	0.5616	
70 1,2-Dichloropropane	63		8.090				ND	
76 Dichlorobromomethane	83		8.450				ND	
80 cis-1,3-Dichloropropene	75		9.017				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2048073	9.76	
84 Toluene	92		9.432				ND	7
85 trans-1,3-Dichloropropene	75		9.718				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.938				ND	U
88 Tetrachloroethene	166	10.011	10.017	-0.006	97	1056017	13.7	
106 2-Hexanone	43		10.175				ND	7
108 Chlorodibromomethane	129		10.328				ND	
110 Ethylene Dibromide	107		10.437				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.895	10.895	0.000	84	1637959	10.0	
113 Chlorobenzene	112		10.919				ND	
114 1,1,1,2-Tetrachloroethane	131		11.010				ND	
115 Ethylbenzene	91		11.017				ND	
116 m-Xylene & p-Xylene	106		11.138				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.480				ND	
119 Styrene	104		11.492				ND	
120 Bromoform	173		11.651				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	97	733360	9.30	
126 1,1,2,2-Tetrachloroethane	83		12.047				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.840	12.839	0.001	93	901133	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 30-Jul-2024 09:44:32

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X27.D

Injection Date: 30-Jul-2024 04:50:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-B-8 DL

Lab Sample ID: 410-181527-8

Worklist Smp#: 28

Client ID: HD-COD-SW-17-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 10.0000

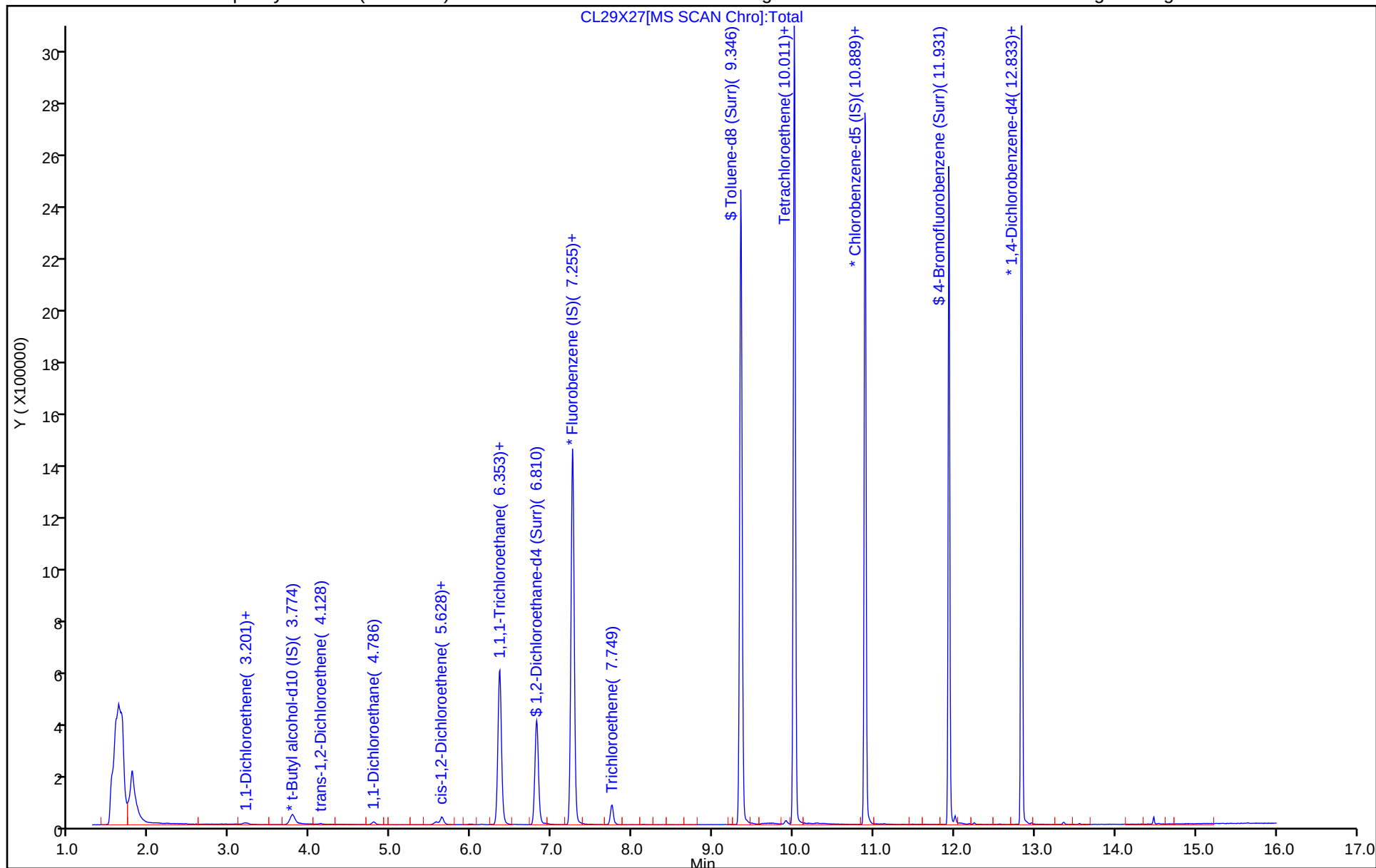
ALS Bottle#: 27

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X27.D
Lims ID: 410-181527-B-8 DL
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 30-Jul-2024 04:50:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0120642-028
Misc. Info.: 410-181527-B-8
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 09:44:21 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1626

First Level Reviewer: DVW2

Date: 30-Jul-2024 09:42:55

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.0	100.06
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.66
\$ 83 Toluene-d8 (Surr)	10.0	9.76	97.59
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.30	92.96

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X27.D

Injection Date: 30-Jul-2024 04:50:30

Instrument ID: 10193

Lims ID: 410-181527-B-8 DL

Lab Sample ID: 410-181527-8

Client ID: HD-COD-SW-17-0/1-0

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 25.000 mL

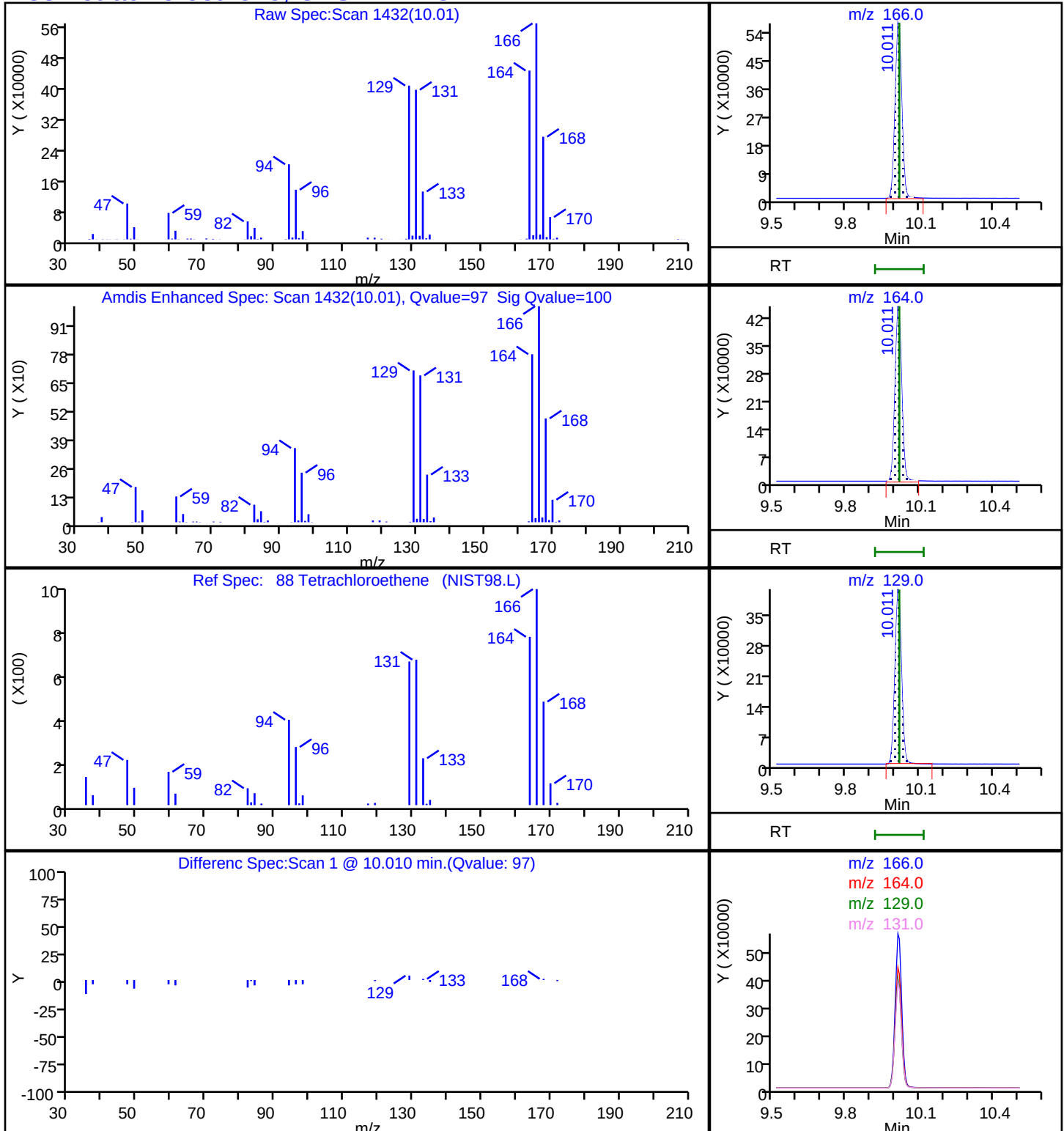
Dil. Factor: 10.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

88 Tetrachloroethene, CAS: 127-18-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0

Lab Sample ID: 410-181527-9

Matrix: Water

Lab File ID: CL29X22.D

Analysis Method: 8260D

Date Collected: 07/25/2024 10:55

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 02:58

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	0.12	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.62		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	3.7		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0

Lab Sample ID: 410-181527-9

Matrix: Water

Lab File ID: CL29X22.D

Analysis Method: 8260D

Date Collected: 07/25/2024 10:55

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 02:58

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.16	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X22.D
 Lims ID: 410-181527-A-9
 Client ID: HD-COD-SW-26-0/1-0
 Sample Type: Client
 Inject. Date: 30-Jul-2024 02:58:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-023
 Misc. Info.: 410-181527-A-9
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 14:44:57 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:48:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.988				ND	
6 Vinyl chloride	62		2.091				ND	
9 Bromomethane	94		2.402				ND	7
10 Chloroethane	64		2.439				ND	
18 1,1-Dichloroethene	96	3.189	3.195	-0.006	95	6082	0.1246	
20 Acetone	43	3.201	3.213	-0.012	40	3852	0.5072	
25 Carbon disulfide	76		3.445				ND	7
30 Methylene Chloride	84		3.774				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.780	3.786	-0.006	97	153134	50.0	
34 Methyl tert-butyl ether	73		4.128				ND	7
35 trans-1,2-Dichloroethene	96		4.140				ND	
37 1,1-Dichloroethane	63		4.792				ND	7
42 2-Butanone (MEK)	43		5.609				ND	7
43 cis-1,2-Dichloroethene	96	5.640	5.640	0.000	76	3519	0.0538	a
48 Chlorobromomethane	128		5.975				ND	
50 Chloroform	83	6.140	6.133	0.007	92	65246	0.6156	
\$ 54 Dibromofluoromethane (Surr)	113	6.353	6.359	-0.006	94	513866	9.95	
53 1,1,1-Trichloroethane	97		6.359				ND	7
56 Carbon tetrachloride	117		6.566				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.810	6.816	-0.006	99	109520	10.4	
60 Benzene	78		6.841				ND	7
61 1,2-Dichloroethane	62		6.920				ND	
* 65 Fluorobenzene (IS)	96	7.261	7.261	0.000	99	2133142	10.0	
68 Trichloroethene	95	7.743	7.749	-0.006	94	10648	0.1626	
70 1,2-Dichloropropane	63		8.090				ND	
76 Dichlorobromomethane	83	8.438	8.450	-0.012	95	2093	0.0285	
80 cis-1,3-Dichloropropene	75		9.017				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2149799	9.94	
84 Toluene	92	9.432	9.432	0.000	97	4527	0.0282	
85 trans-1,3-Dichloropropene	75		9.718				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.938				ND	
88 Tetrachloroethene	166	10.011	10.017	-0.006	97	297370	3.74	
106 2-Hexanone	43		10.175				ND	7
108 Chlorodibromomethane	129		10.328				ND	
110 Ethylene Dibromide	107		10.437				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.895	10.895	0.000	84	1687653	10.0	
113 Chlorobenzene	112		10.919				ND	
114 1,1,1,2-Tetrachloroethane	131		11.010				ND	
115 Ethylbenzene	91		11.017				ND	7
116 m-Xylene & p-Xylene	106		11.138				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.480				ND	7
119 Styrene	104		11.492				ND	7
120 Bromoform	173		11.651				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	96	772684	9.51	
126 1,1,2,2-Tetrachloroethane	83		12.047				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.840	12.839	0.001	93	944833	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 30-Jul-2024 14:48:41

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X22.D

Injection Date: 30-Jul-2024 02:58:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-A-9

Lab Sample ID: 410-181527-9

Worklist Smp#: 23

Client ID: HD-COD-SW-26-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

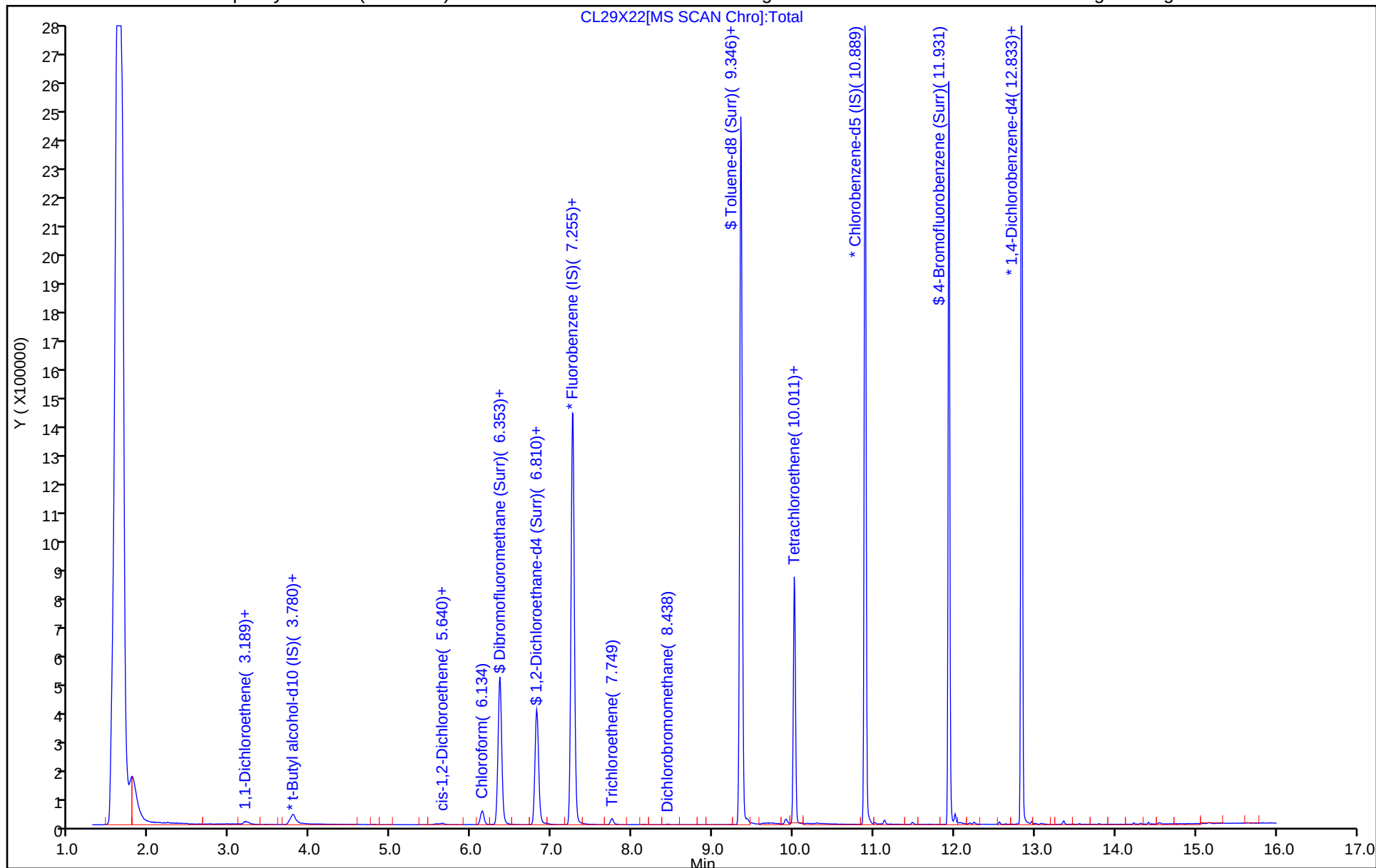
ALS Bottle#: 22

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X22.D
Lims ID: 410-181527-A-9
Client ID: HD-COD-SW-26-0/1-0
Sample Type: Client
Inject. Date: 30-Jul-2024 02:58:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-023
Misc. Info.: 410-181527-A-9
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 14:44:57 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:48:40

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.95	99.48
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.63
\$ 83 Toluene-d8 (Surr)	10.0	9.94	99.42
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.51	95.06

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X22.D

Injection Date: 30-Jul-2024 02:58:30

Instrument ID: 10193

Lims ID: 410-181527-A-9

Lab Sample ID: 410-181527-9

Client ID: HD-COD-SW-26-0/1-0

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

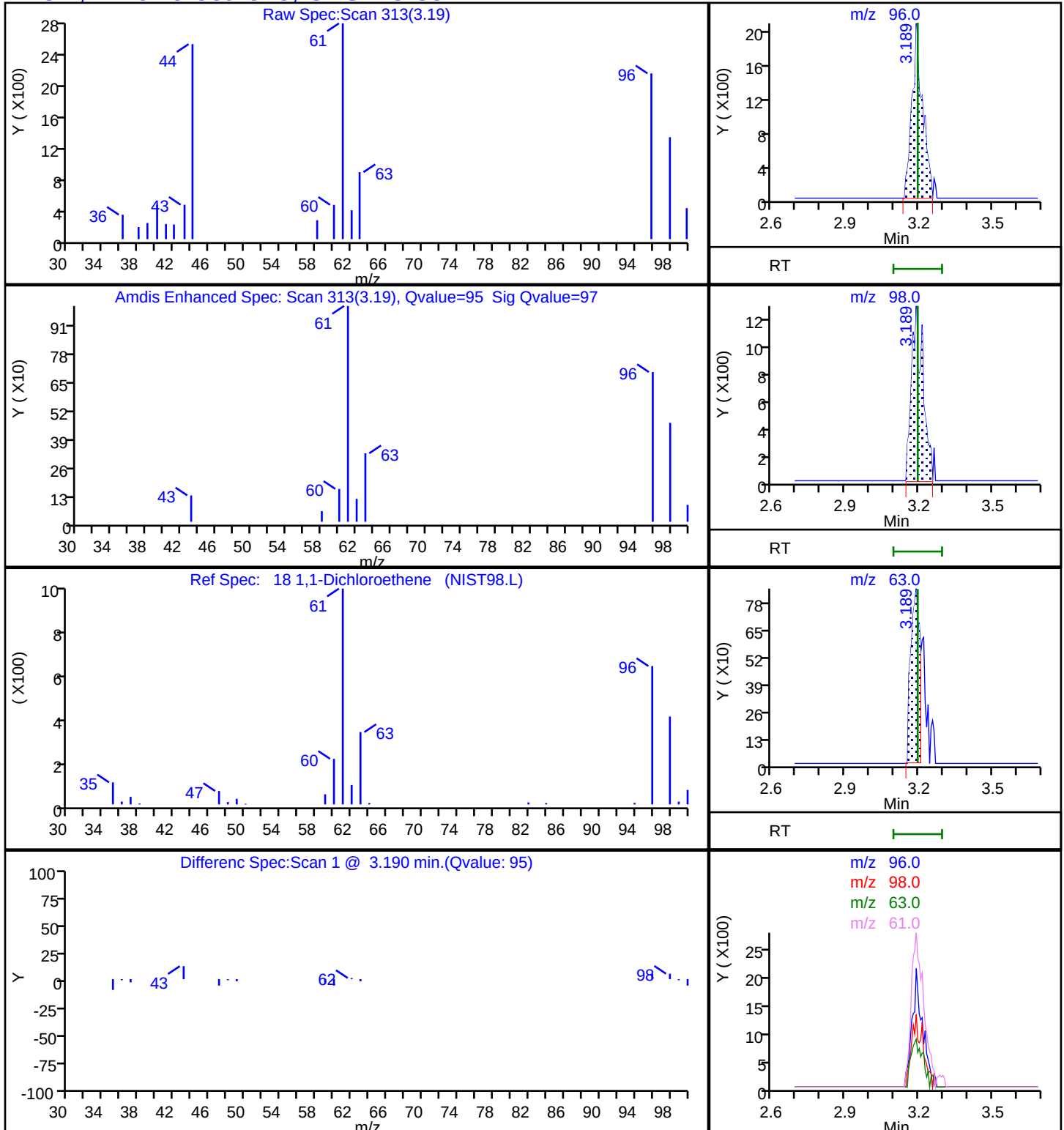
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

18 1,1-Dichloroethene, CAS: 75-35-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X22.D

Injection Date: 30-Jul-2024 02:58:30

Instrument ID: 10193

Lims ID: 410-181527-A-9

Lab Sample ID: 410-181527-9

Client ID: HD-COD-SW-26-0/1-0

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

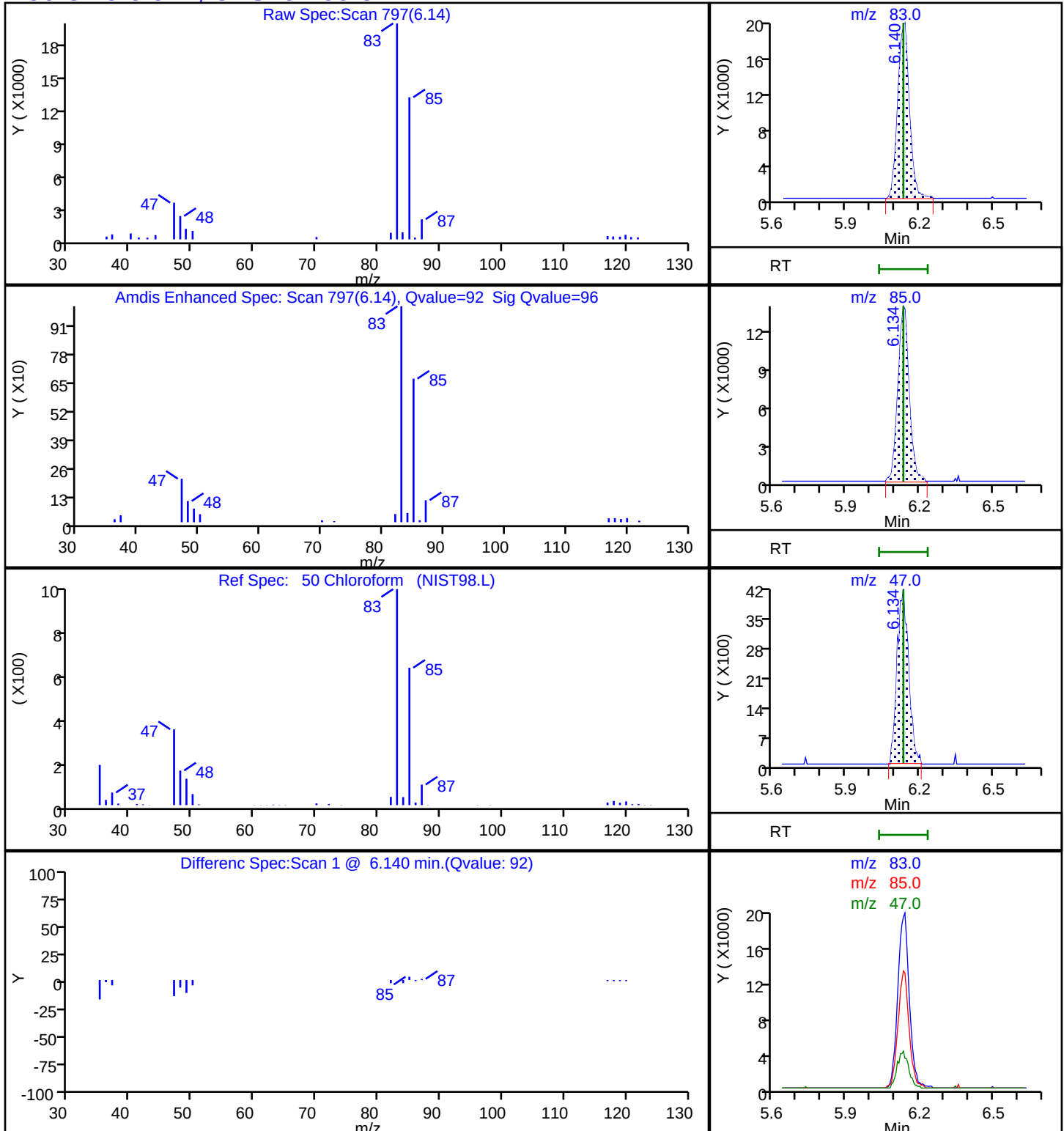
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

50 Chloroform, CAS: 67-66-3

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X22.D

Injection Date: 30-Jul-2024 02:58:30

Instrument ID: 10193

Lims ID: 410-181527-A-9

Lab Sample ID: 410-181527-9

Client ID: HD-COD-SW-26-0/1-0

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

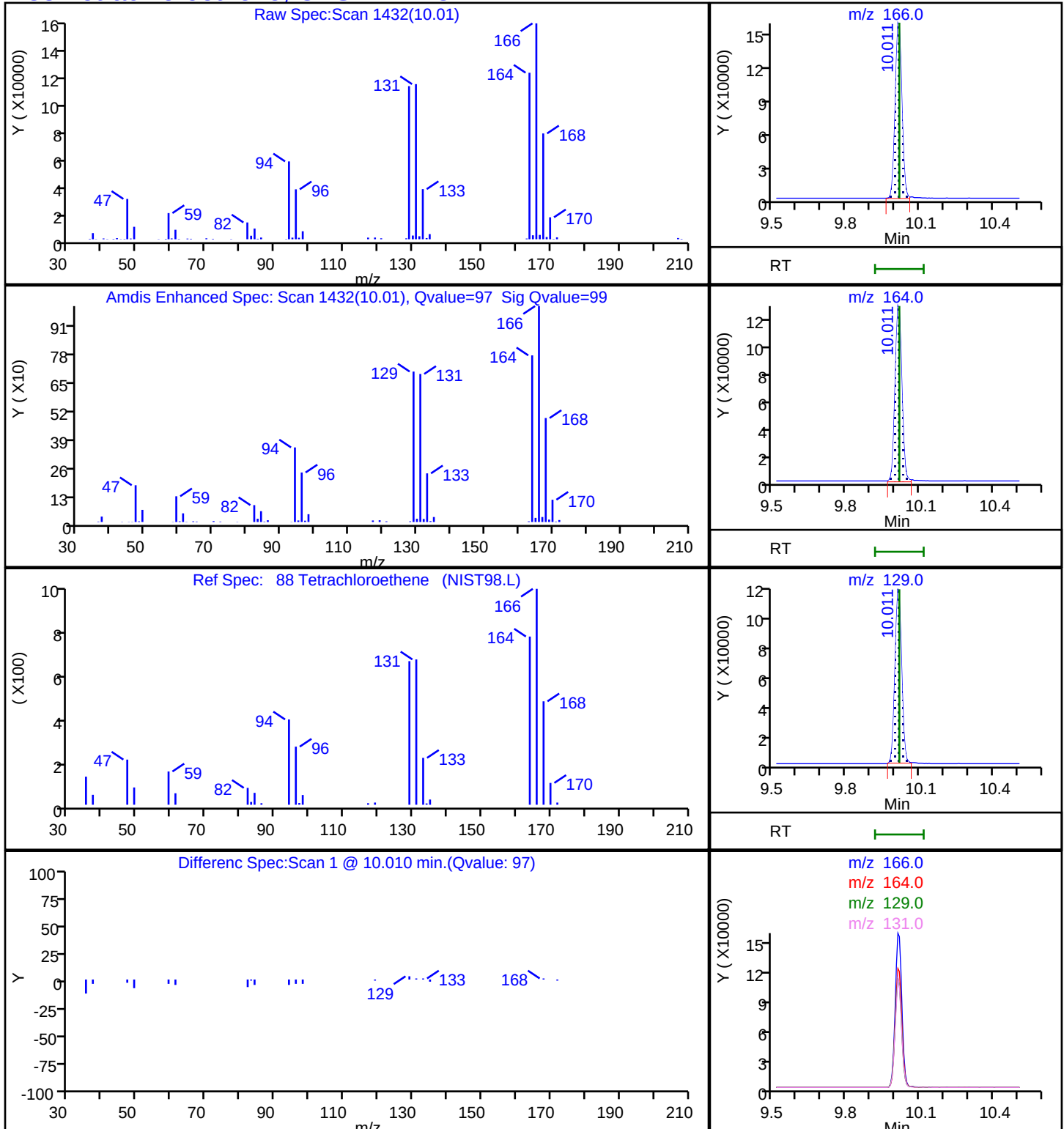
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

88 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X22.D

Injection Date: 30-Jul-2024 02:58:30

Instrument ID: 10193

Lims ID: 410-181527-A-9

Lab Sample ID: 410-181527-9

Client ID: HD-COD-SW-26-0/1-0

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

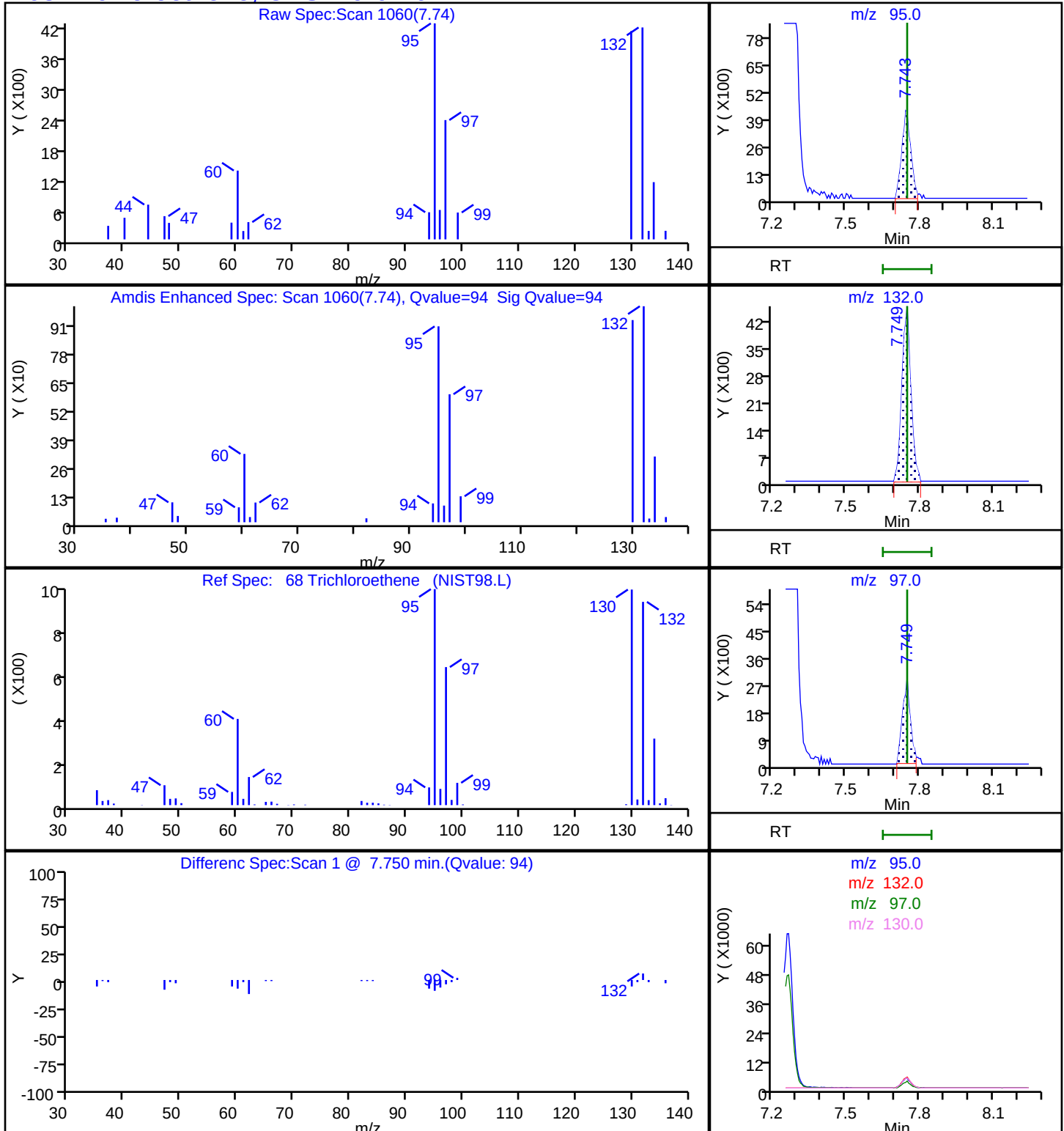
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 100m

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

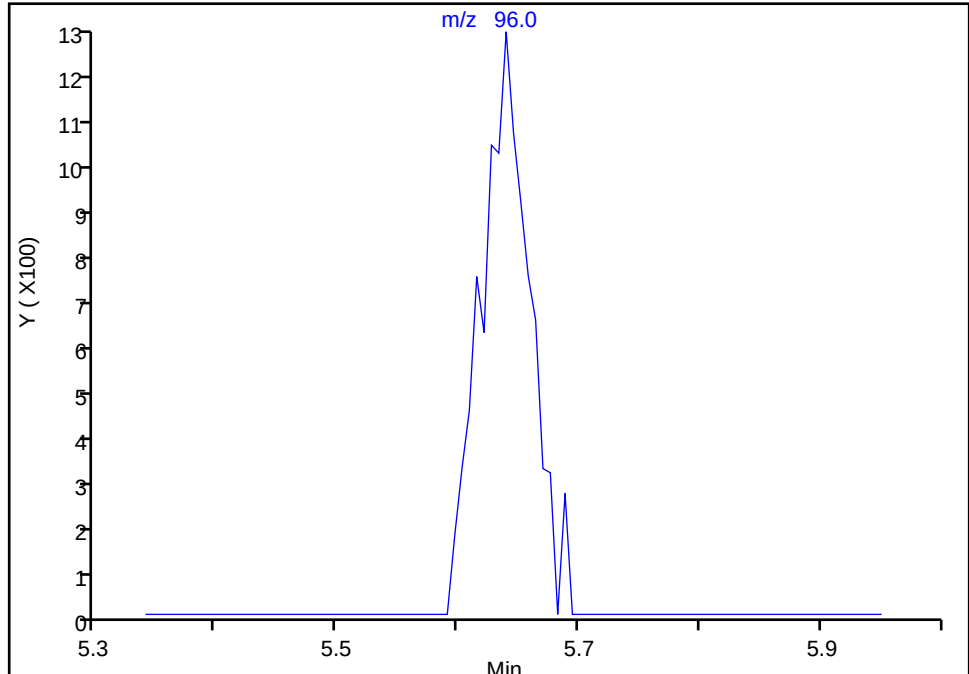
Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X22.D
Injection Date: 30-Jul-2024 02:58:30 Instrument ID: 10193
Lims ID: 410-181527-A-9 Lab Sample ID: 410-181527-9
Client ID: HD-COD-SW-26-0/1-0
Operator ID: gaw91131 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

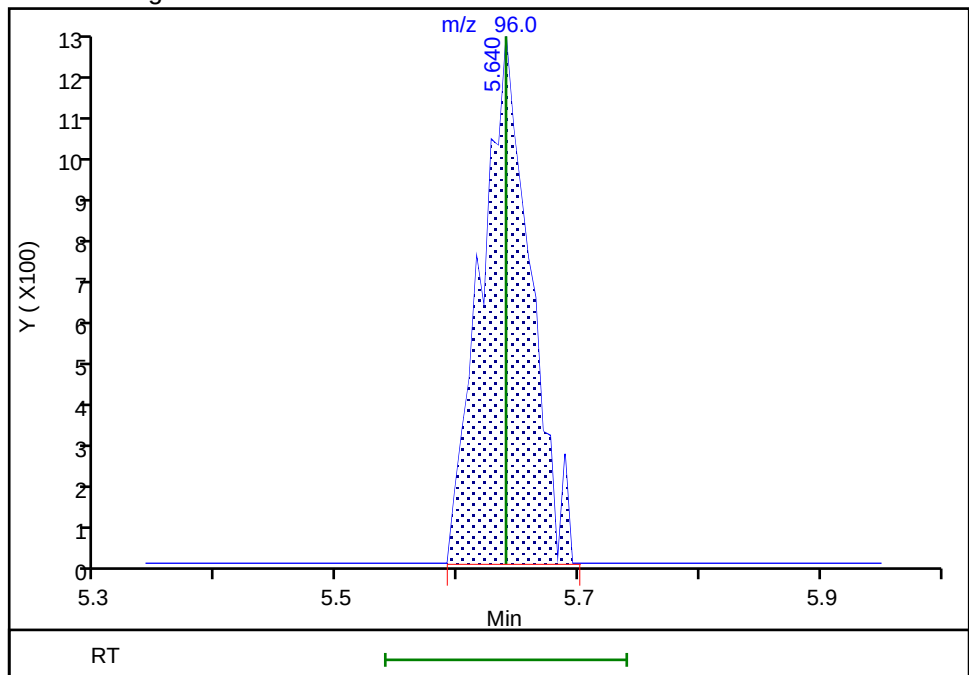
Not Detected
Expected RT: 5.64

Processing Integration Results



RT: 5.64
Area: 3519
Amount: 0.053793
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 30-Jul-2024 14:44:40 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.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0

Lab Sample ID: 410-181527-10

Matrix: Water

Lab File ID: CL29X23.D

Analysis Method: 8260D

Date Collected: 07/25/2024 11:30

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 03:21

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.8	J	5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.12	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.10	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-181527-10

Matrix: Water Lab File ID: CL29X23.D

Analysis Method: 8260D Date Collected: 07/25/2024 11:30

Sample wt/vol: 25 (mL) Date Analyzed: 07/30/2024 03:21

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 533656 Units: ug/L

Preparation Batch No.: _____ Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.15	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		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\10193\20240729-120642.b\CL29X23.D
 Lims ID: 410-181527-A-10
 Client ID: HD-COD-SW-27-0/1-0
 Sample Type: Client
 Inject. Date: 30-Jul-2024 03:21:30 ALS Bottle#: 23 Worklist Smp#: 24
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-024
 Misc. Info.: 410-181527-A-10
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 14:44:57 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 15:03:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.988	1.988	0.000	93	3014	0.0380	
6 Vinyl chloride	62		2.091				ND	7
9 Bromomethane	94		2.402				ND	7
10 Chloroethane	64		2.439				ND	
18 1,1-Dichloroethene	96		3.195				ND	
20 Acetone	43	3.207	3.213	-0.006	98	13403	1.83	
25 Carbon disulfide	76		3.445				ND	7
30 Methylene Chloride	84		3.774				ND	
* 31 t-Butyl alcohol-d10 (IS)	65	3.780	3.786	-0.006	97	147544	50.0	
34 Methyl tert-butyl ether	73		4.128				ND	
35 trans-1,2-Dichloroethene	96		4.140				ND	
37 1,1-Dichloroethane	63		4.792				ND	
42 2-Butanone (MEK)	43	5.609	5.609	0.000	38	4741	0.3531	
43 cis-1,2-Dichloroethene	96	5.640	5.640	0.000	76	6777	0.1046	
48 Chlorobromomethane	128		5.975				ND	
50 Chloroform	83	6.140	6.133	0.007	90	12106	0.1154	
\$ 54 Dibromofluoromethane (Surr)	113	6.347	6.359	-0.012	94	510061	9.97	
53 1,1,1-Trichloroethane	97		6.359				ND	
56 Carbon tetrachloride	117		6.566				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.816	6.816	0.000	98	108187	10.3	
60 Benzene	78		6.841				ND	
61 1,2-Dichloroethane	62		6.920				ND	
* 65 Fluorobenzene (IS)	96	7.255	7.261	-0.006	99	2112224	10.0	
68 Trichloroethene	95	7.749	7.749	0.000	96	9462	0.1459	
70 1,2-Dichloropropane	63		8.090				ND	
76 Dichlorobromomethane	83		8.450				ND	7
80 cis-1,3-Dichloropropene	75		9.017				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2121752	9.98	
84 Toluene	92	9.432	9.432	0.000	99	9827	0.0623	
85 trans-1,3-Dichloropropene	75		9.718				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.938				ND	
88 Tetrachloroethene	166	10.017	10.017	0.000	96	5076	0.0648	
106 2-Hexanone	43		10.175				ND	7
108 Chlorodibromomethane	129		10.328				ND	
110 Ethylene Dibromide	107		10.437				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.889	10.895	-0.006	84	1659797	10.0	
113 Chlorobenzene	112		10.919				ND	
114 1,1,1,2-Tetrachloroethane	131		11.010				ND	
115 Ethylbenzene	91		11.017				ND	7
116 m-Xylene & p-Xylene	106	11.133	11.138	-0.005	96	5734	0.0452	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.480				ND	7
119 Styrene	104		11.492				ND	7
120 Bromoform	173		11.651				ND	7
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	96	754523	9.44	
126 1,1,2,2-Tetrachloroethane	83		12.047				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.840	12.839	0.001	93	933968	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 30-Jul-2024 15:03:37

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X23.D

Injection Date: 30-Jul-2024 03:21:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-A-10

Lab Sample ID: 410-181527-10

Worklist Smp#: 24

Client ID: HD-COD-SW-27-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

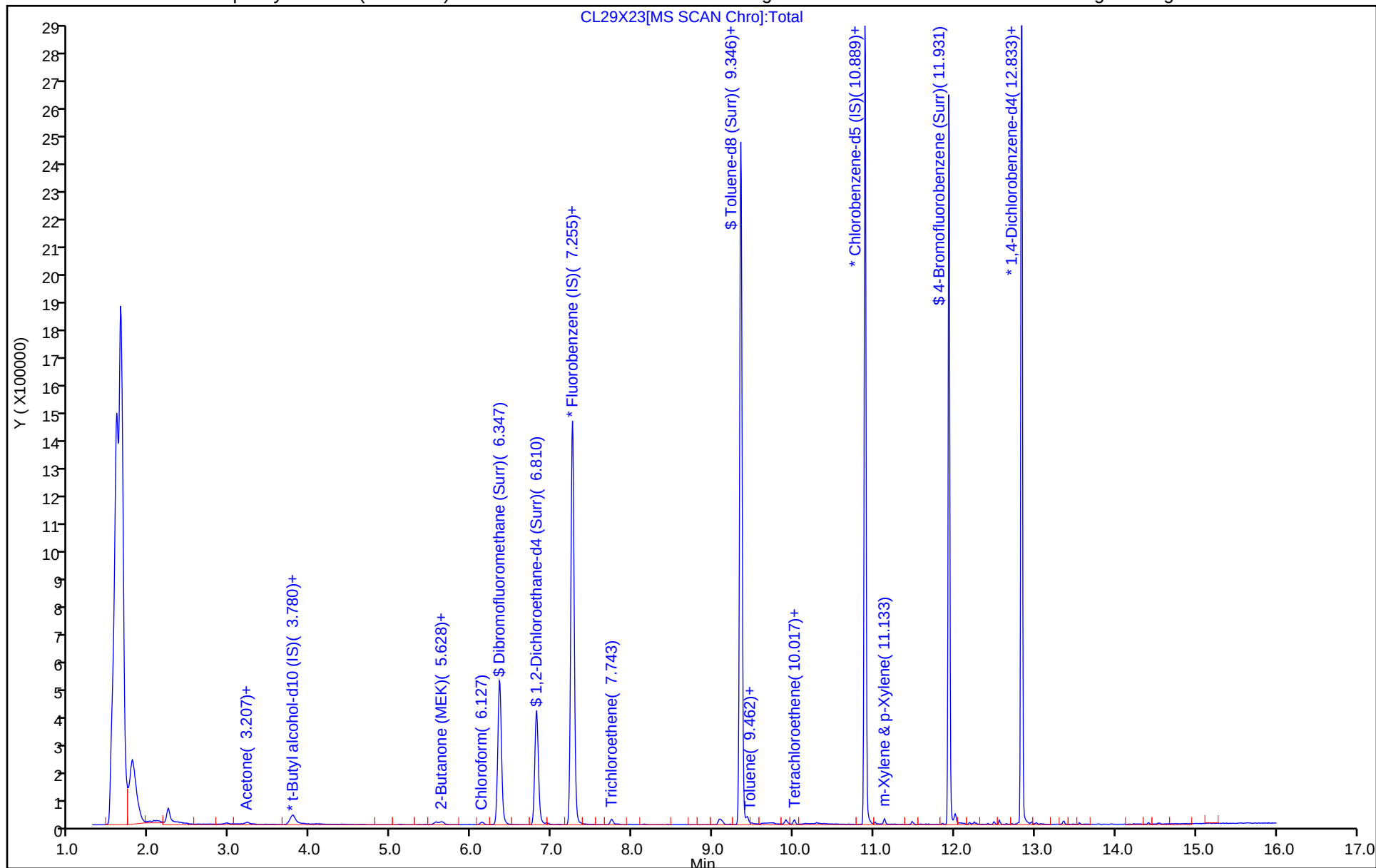
ALS Bottle#: 23

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X23.D
Lims ID: 410-181527-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 30-Jul-2024 03:21:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-024
Misc. Info.: 410-181527-A-10
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 14:44:57 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 15:03:36

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.97	99.72
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.38
\$ 83 Toluene-d8 (Surr)	10.0	9.98	99.77
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.44	94.38

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X23.D

Injection Date: 30-Jul-2024 03:21:30

Instrument ID: 10193

Lims ID: 410-181527-A-10

Lab Sample ID: 410-181527-10

Client ID: HD-COD-SW-27-0/1-0

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 25.000 mL

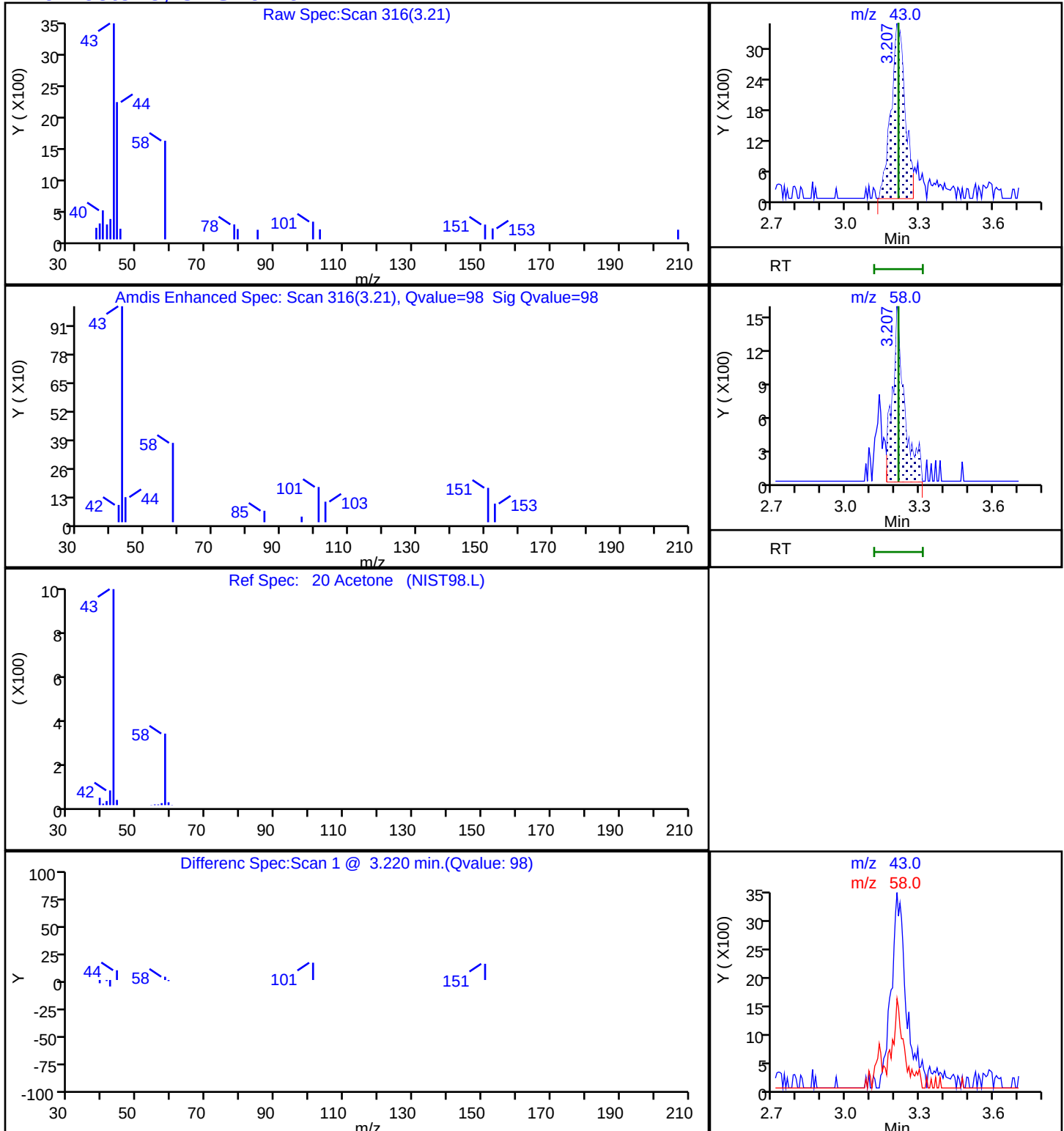
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

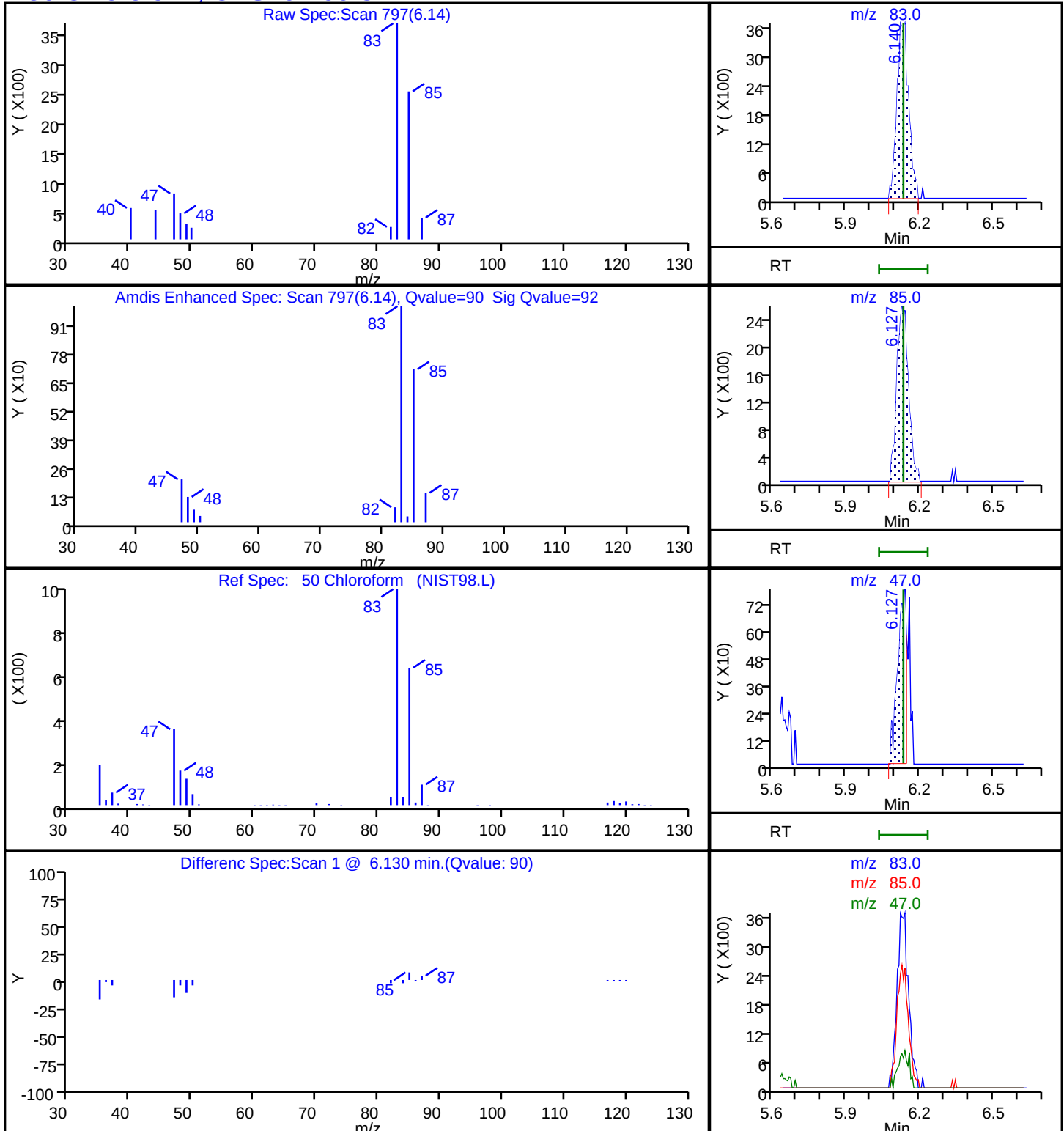
Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

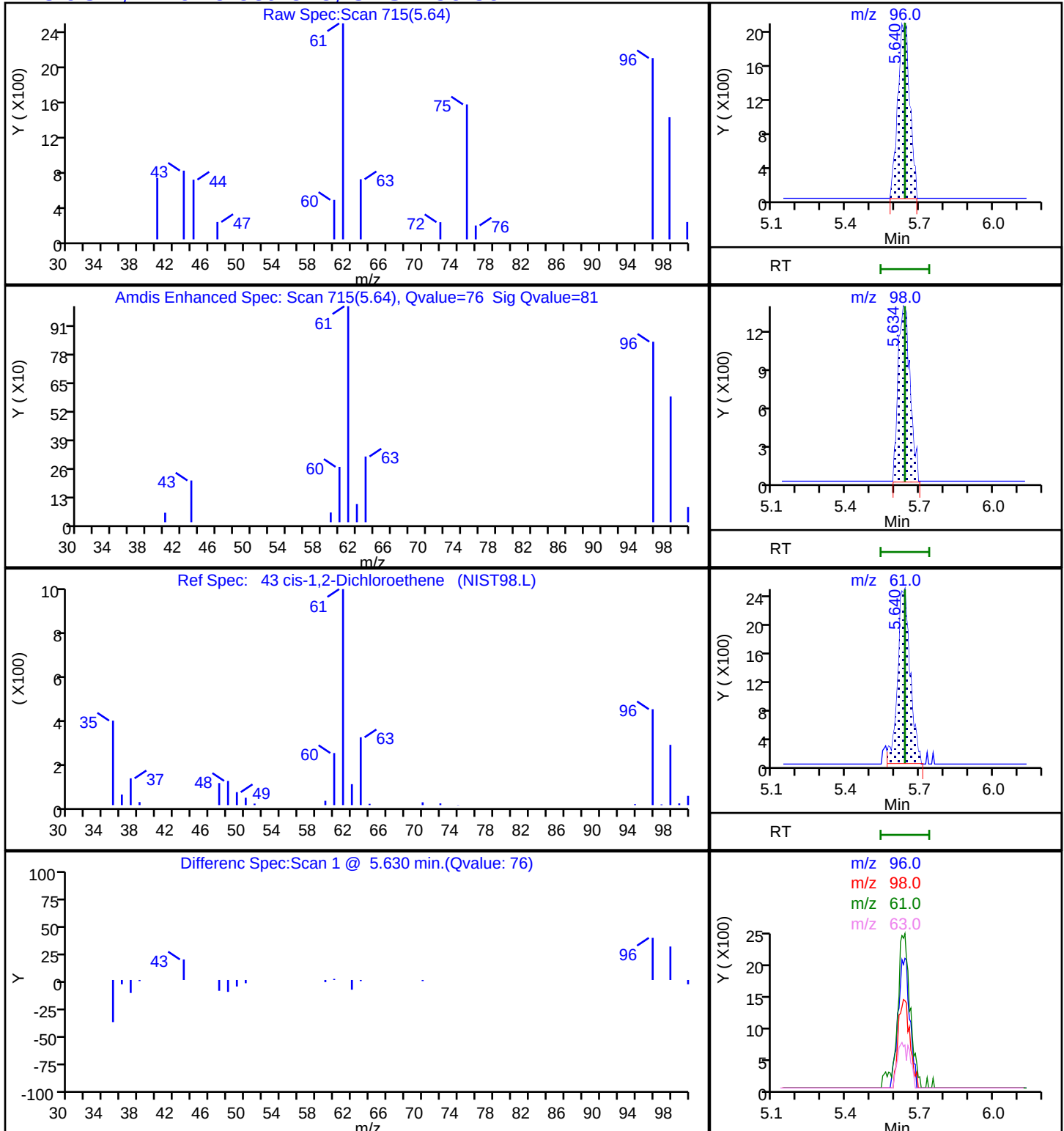
20 Acetone, CAS: 67-64-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X23.D
Injection Date: 30-Jul-2024 03:21:30 Instrument ID: 10193
Lims ID: 410-181527-A-10 Lab Sample ID: 410-181527-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

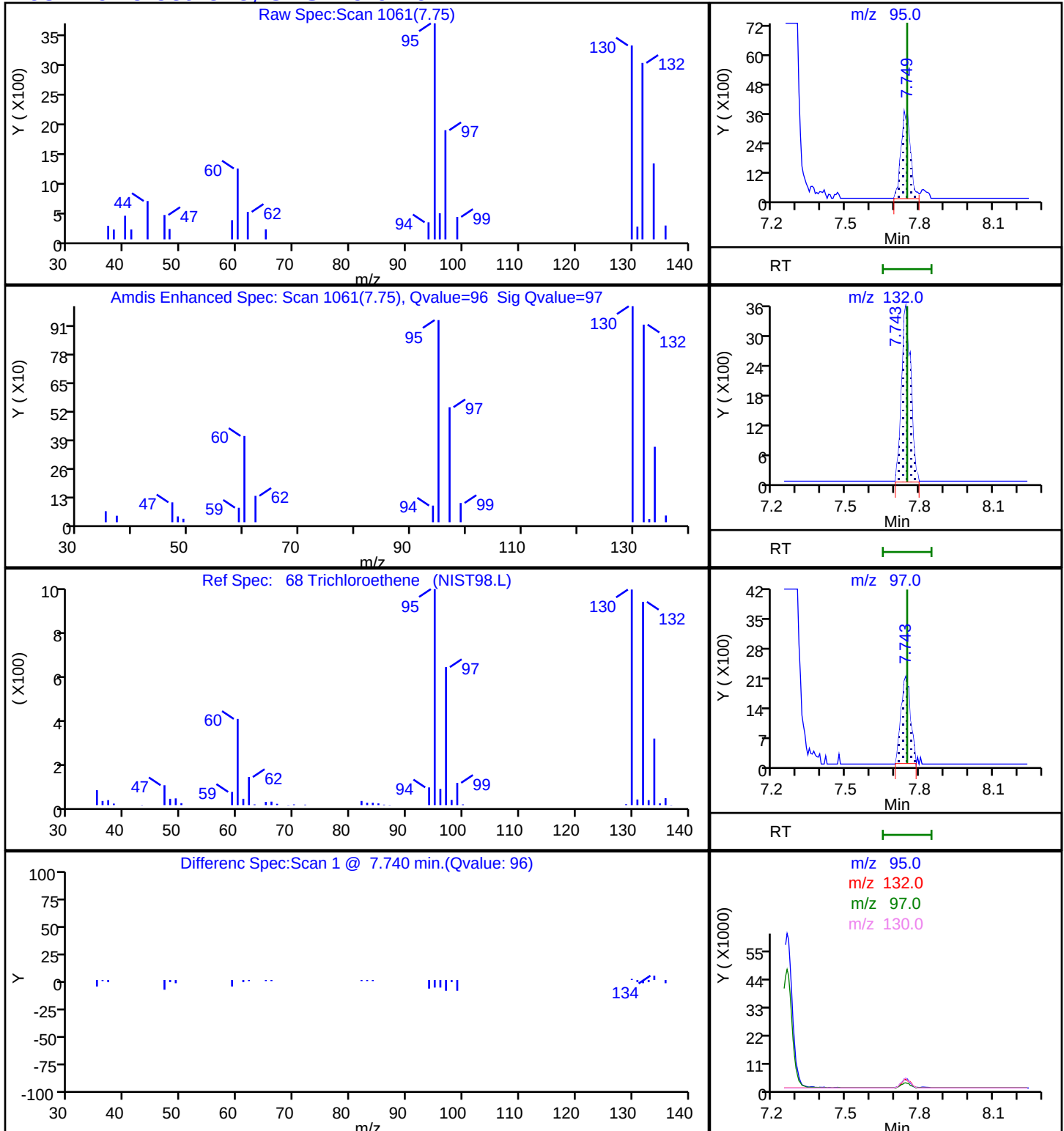
50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X23.D
Injection Date: 30-Jul-2024 03:21:30 Instrument ID: 10193
Lims ID: 410-181527-A-10 Lab Sample ID: 410-181527-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X23.D
Injection Date: 30-Jul-2024 03:21:30 Instrument ID: 10193
Lims ID: 410-181527-A-10 Lab Sample ID: 410-181527-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

68 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0

Lab Sample ID: 410-181527-11

Matrix: Water

Lab File ID: CL29X24.D

Analysis Method: 8260D

Date Collected: 07/25/2024 13:15

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 03:43

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.6	J	5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.11	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.10	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.33	J	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0

Lab Sample ID: 410-181527-11

Matrix: Water

Lab File ID: CL29X24.D

Analysis Method: 8260D

Date Collected: 07/25/2024 13:15

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 03:43

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.088	J	0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.12	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		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\10193\20240729-120642.b\CL29X24.D
 Lims ID: 410-181527-A-11
 Client ID: HD-COD-SW-28-0/1-0
 Sample Type: Client
 Inject. Date: 30-Jul-2024 03:43:30 ALS Bottle#: 24 Worklist Smp#: 25
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-025
 Misc. Info.: 410-181527-A-11
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 15:36:53 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 15:36:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.988				ND	7
6 Vinyl chloride	62		2.091				ND	
9 Bromomethane	94		2.402				ND	7
10 Chloroethane	64		2.439				ND	
18 1,1-Dichloroethene	96		3.195				ND	7
20 Acetone	43	3.195	3.213	-0.018	97	22179	3.65	
25 Carbon disulfide	76		3.445				ND	7
30 Methylene Chloride	84		3.774				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.780	3.786	-0.006	97	122677	50.0	
34 Methyl tert-butyl ether	73		4.128				ND	
35 trans-1,2-Dichloroethene	96		4.140				ND	
37 1,1-Dichloroethane	63		4.792				ND	7
42 2-Butanone (MEK)	43		5.609				ND	U
43 cis-1,2-Dichloroethene	96	5.633	5.640	-0.007	72	6523	0.1022	
48 Chlorobromomethane	128		5.975				ND	
50 Chloroform	83	6.139	6.133	0.006	91	11436	0.1106	a
\$ 54 Dibromofluoromethane (Surr)	113	6.347	6.359	-0.012	94	501832	9.96	
53 1,1,1-Trichloroethane	97		6.359				ND	
56 Carbon tetrachloride	117		6.566				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.810	6.816	-0.006	99	106399	10.3	
60 Benzene	78		6.841				ND	
61 1,2-Dichloroethane	62		6.920				ND	7
* 65 Fluorobenzene (IS)	96	7.255	7.261	-0.006	99	2081269	10.0	
68 Trichloroethene	95	7.743	7.749	-0.006	96	7675	0.1201	
70 1,2-Dichloropropane	63		8.090				ND	
76 Dichlorobromomethane	83		8.450				ND	7
80 cis-1,3-Dichloropropene	75		9.017				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2099932	10.1	
84 Toluene	92	9.425	9.432	-0.007	99	13577	0.0878	
85 trans-1,3-Dichloropropene	75		9.718				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.938				ND	
88 Tetrachloroethene	166	10.011	10.017	-0.006	96	25109	0.3268	
106 2-Hexanone	43		10.175				ND	7
108 Chlorodibromomethane	129		10.328				ND	
110 Ethylene Dibromide	107		10.437				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.888	10.895	-0.007	84	1628760	10.0	
113 Chlorobenzene	112		10.919				ND	7
114 1,1,1,2-Tetrachloroethane	131		11.010				ND	
115 Ethylbenzene	91		11.017				ND	7
116 m-Xylene & p-Xylene	106	11.132	11.138	-0.006	98	5805	0.0467	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.480				ND	7
119 Styrene	104		11.492				ND	7
120 Bromoform	173		11.651				ND	7
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	96	744041	9.48	
126 1,1,2,2-Tetrachloroethane	83		12.047				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.839	12.839	0.000	93	908495	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 30-Jul-2024 15:36:53

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X24.D

Injection Date: 30-Jul-2024 03:43:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-A-11

Lab Sample ID: 410-181527-11

Worklist Smp#: 25

Client ID: HD-COD-SW-28-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

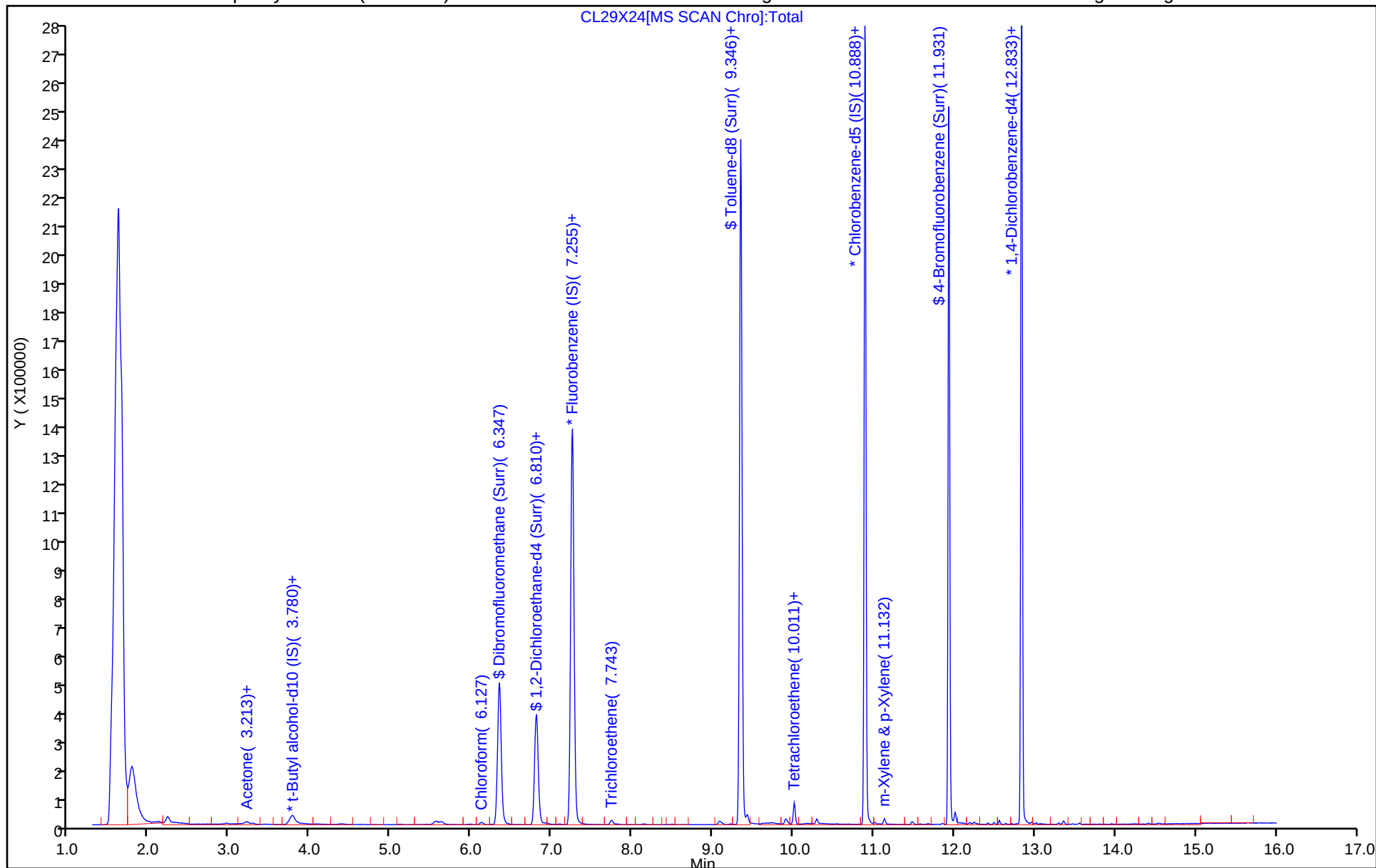
ALS Bottle#: 24

Method: MSV_10193_25mL

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

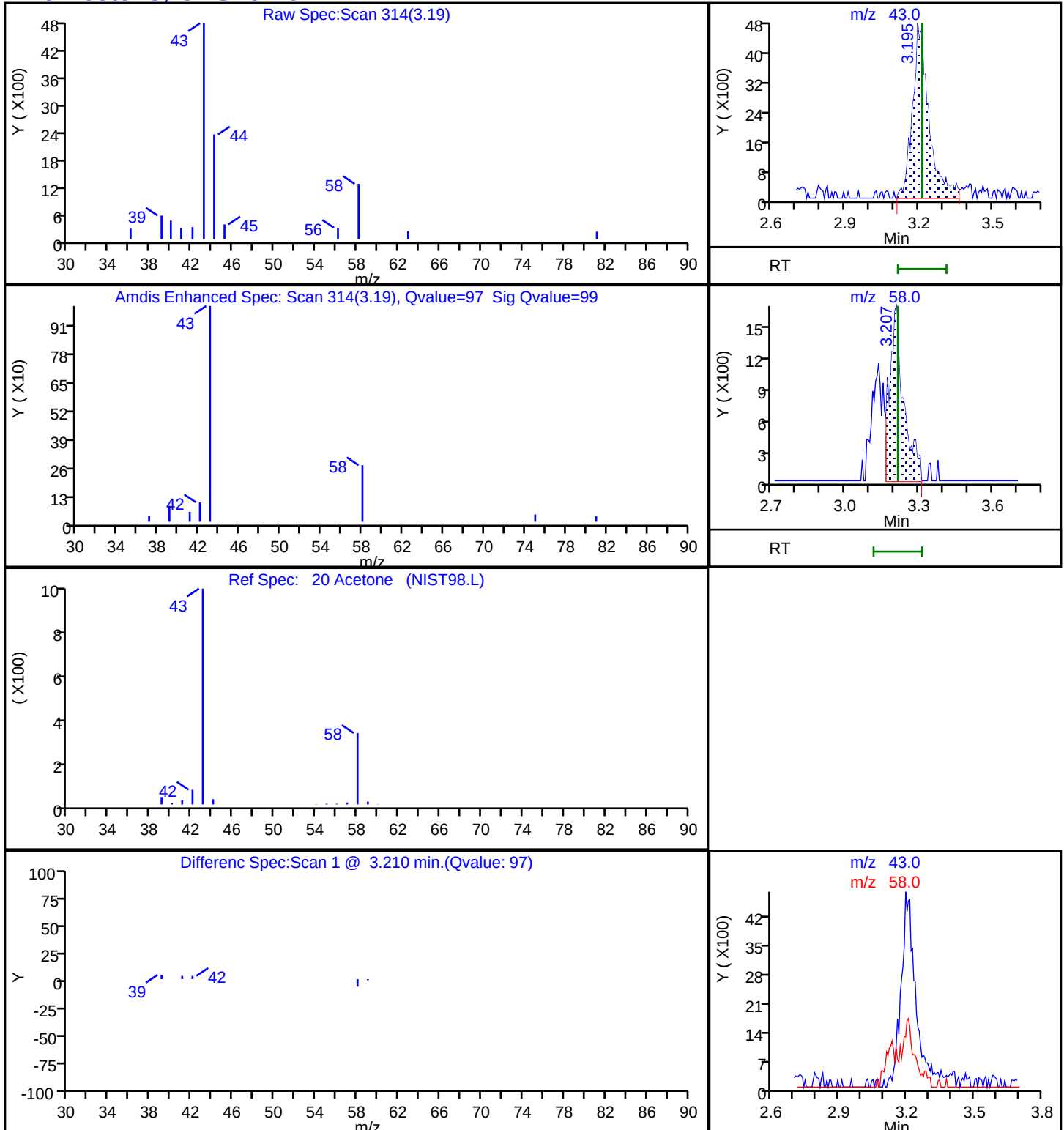
Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X24.D
Lims ID: 410-181527-A-11
Client ID: HD-COD-SW-28-0/1-0
Sample Type: Client
Inject. Date: 30-Jul-2024 03:43:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-025
Misc. Info.: 410-181527-A-11
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 15:36:53 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 15:36:53

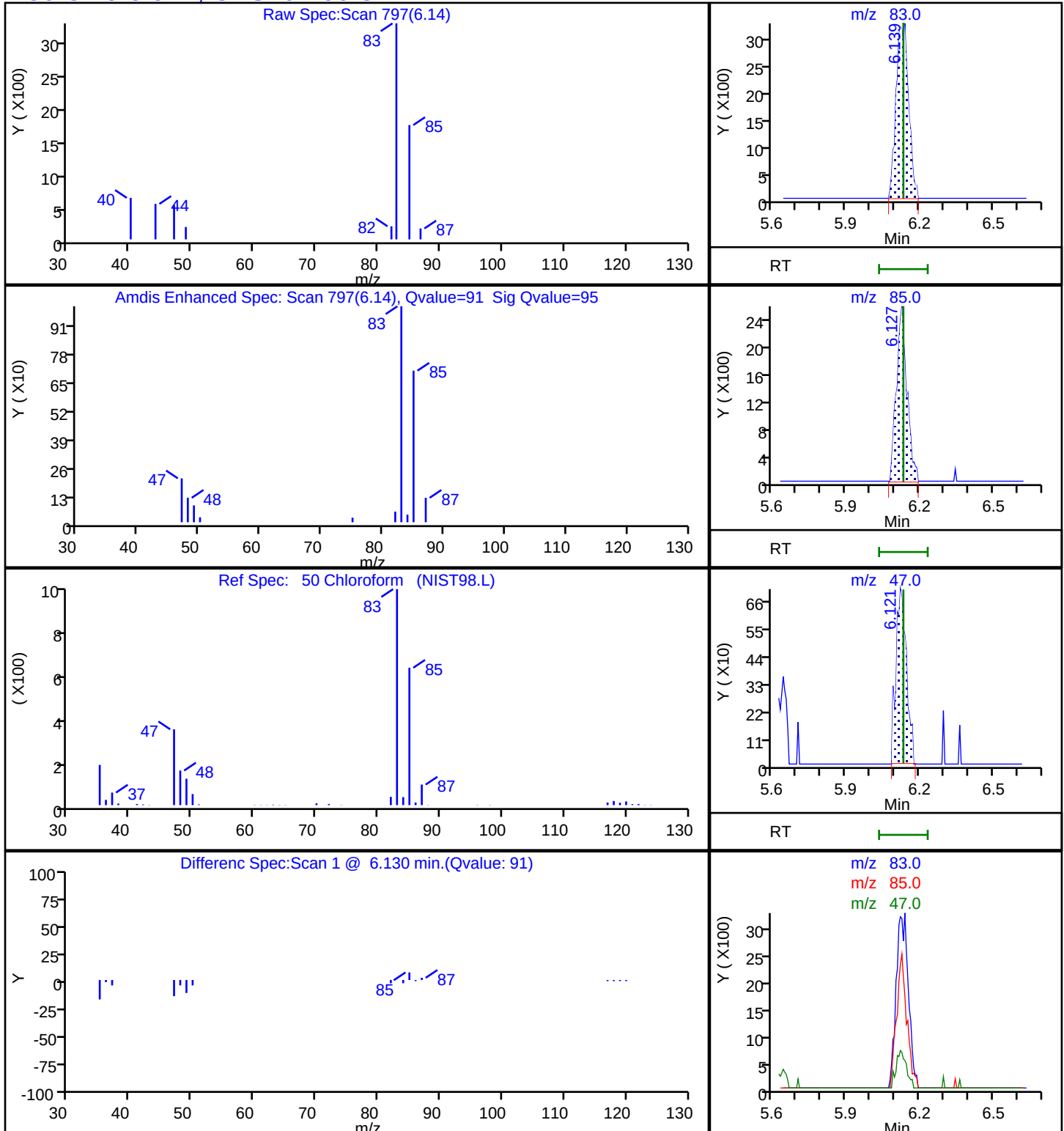
Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.96	99.57
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.18
\$ 83 Toluene-d8 (Surr)	10.0	10.1	100.62
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.48	94.84

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X24.D
Injection Date: 30-Jul-2024 03:43:30 Instrument ID: 10193
Lims ID: 410-181527-A-11 Lab Sample ID: 410-181527-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

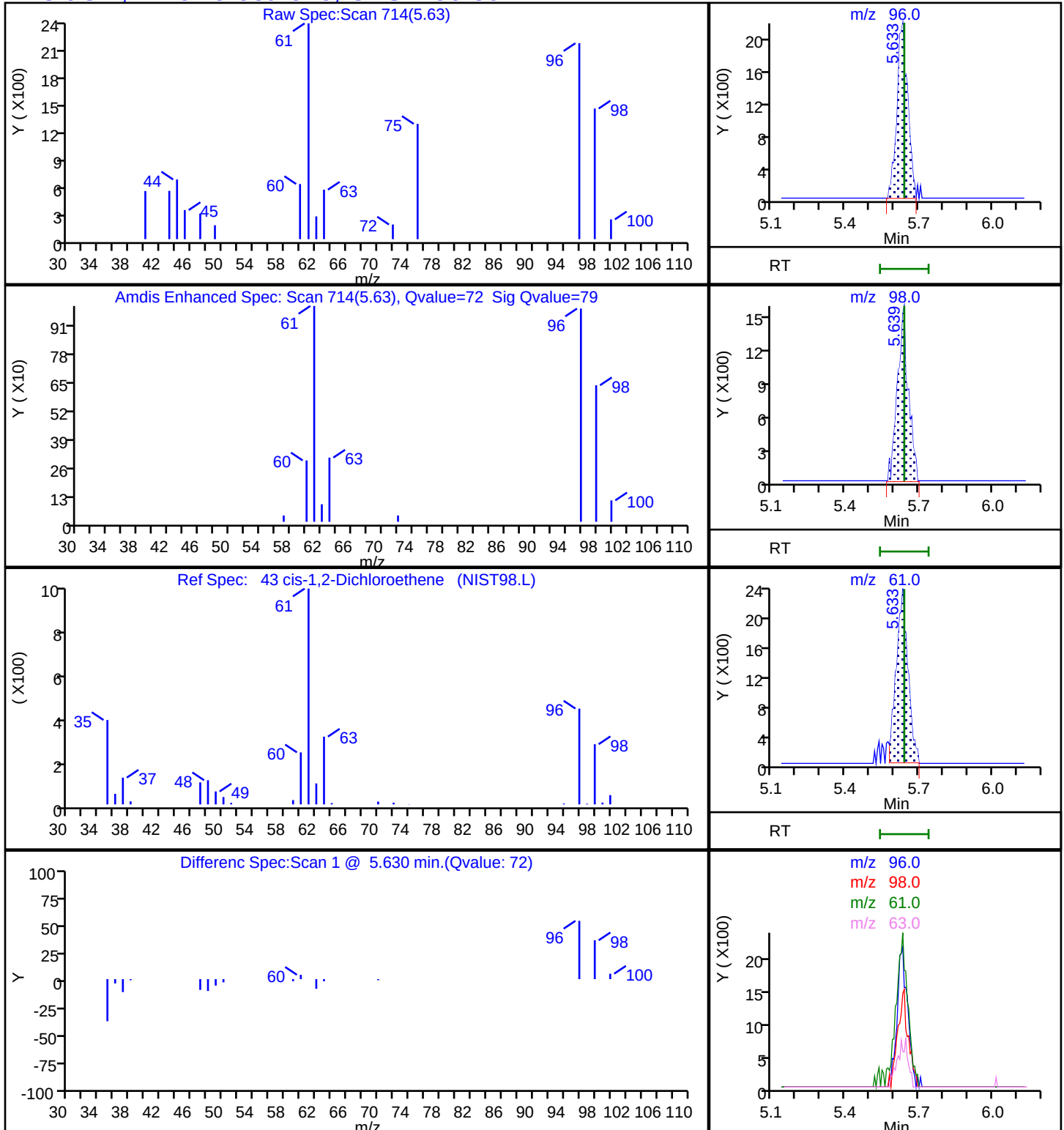
20 Acetone, CAS: 67-64-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X24.D
Injection Date: 30-Jul-2024 03:43:30 Instrument ID: 10193
Lims ID: 410-181527-A-11 Lab Sample ID: 410-181527-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

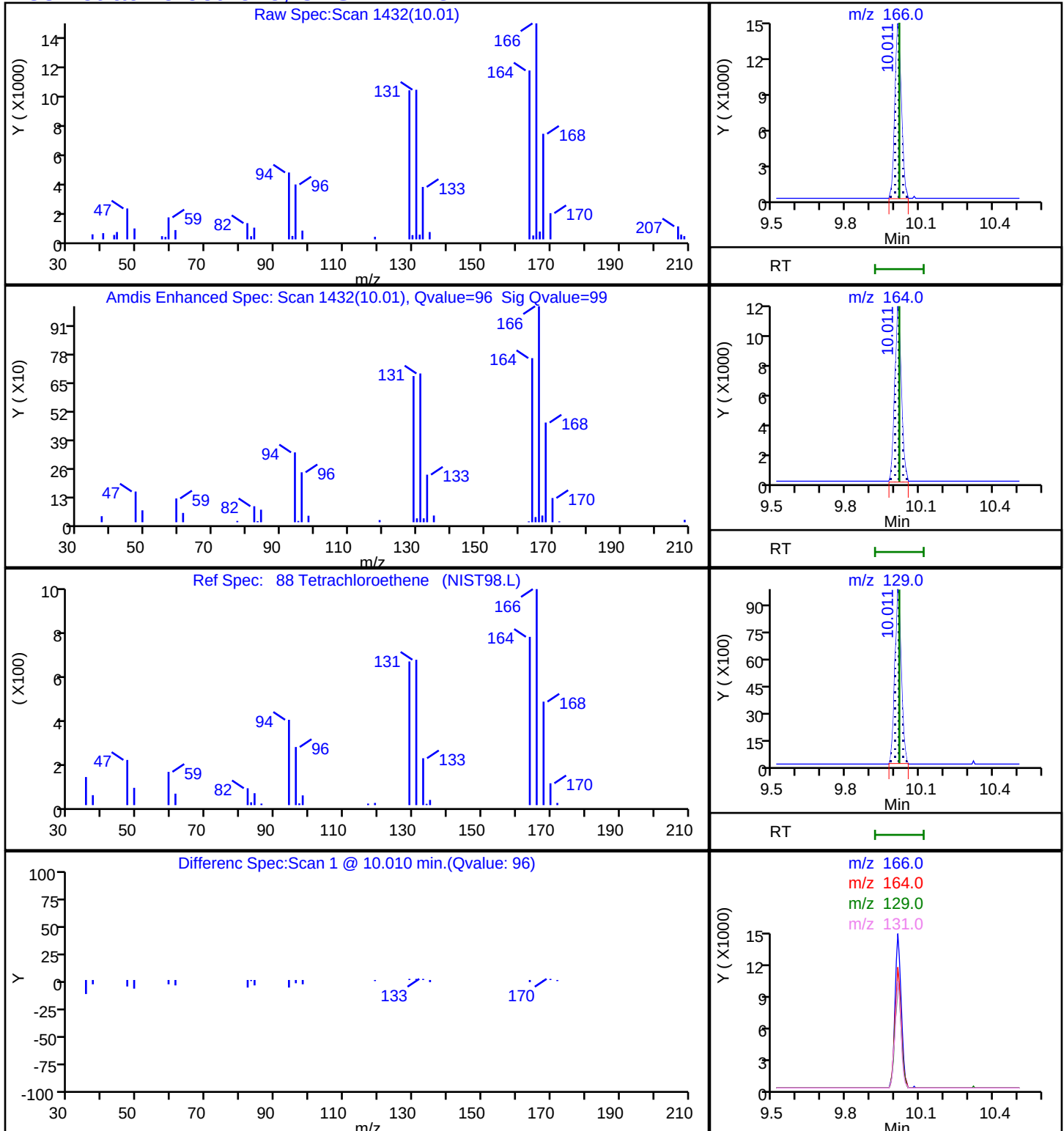
50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X24.D
Injection Date: 30-Jul-2024 03:43:30 Instrument ID: 10193
Lims ID: 410-181527-A-11 Lab Sample ID: 410-181527-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-59-2

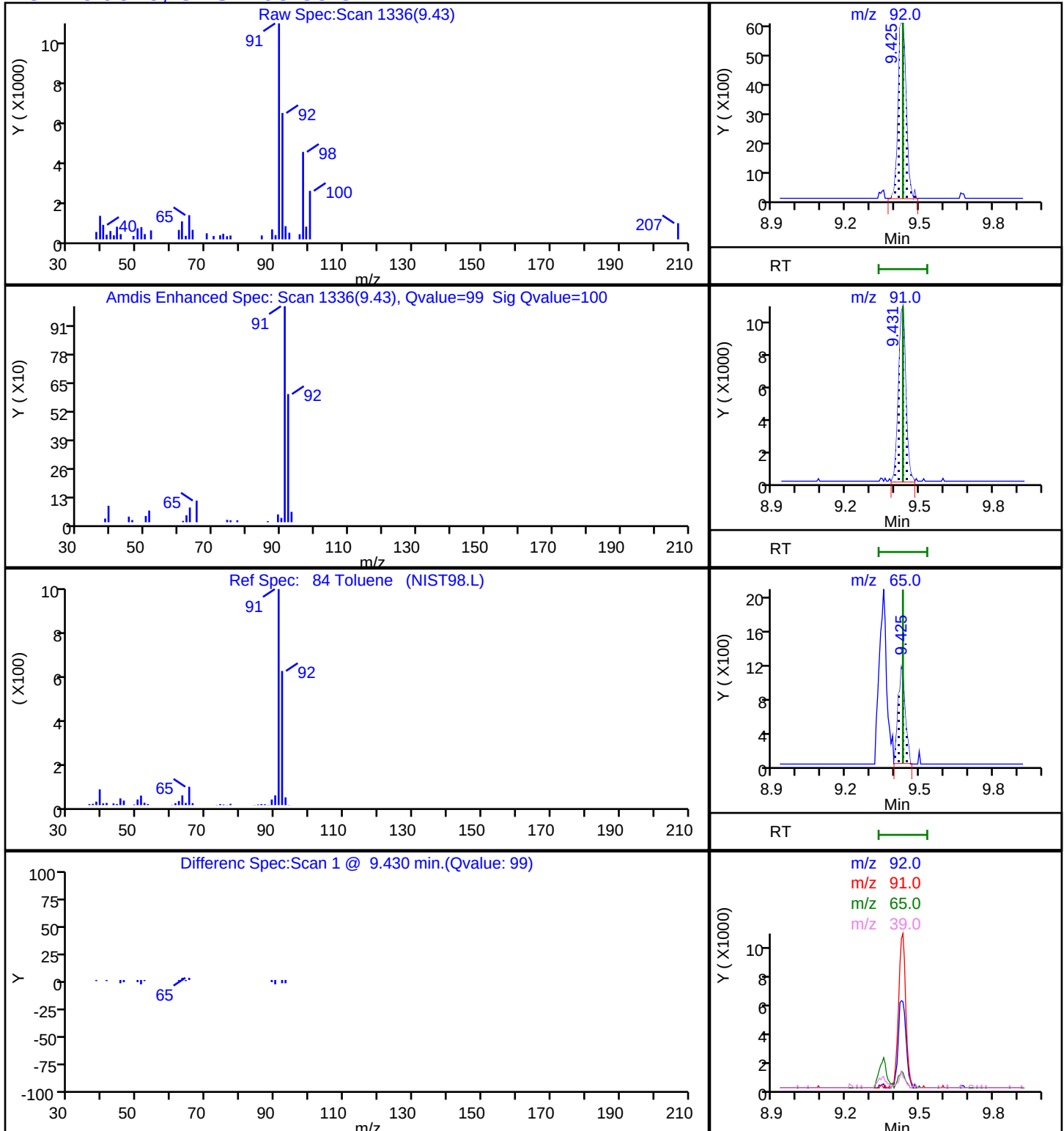
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X24.D
Injection Date: 30-Jul-2024 03:43:30 Instrument ID: 10193
Lims ID: 410-181527-A-11 Lab Sample ID: 410-181527-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

88 Tetrachloroethene, CAS: 127-18-4

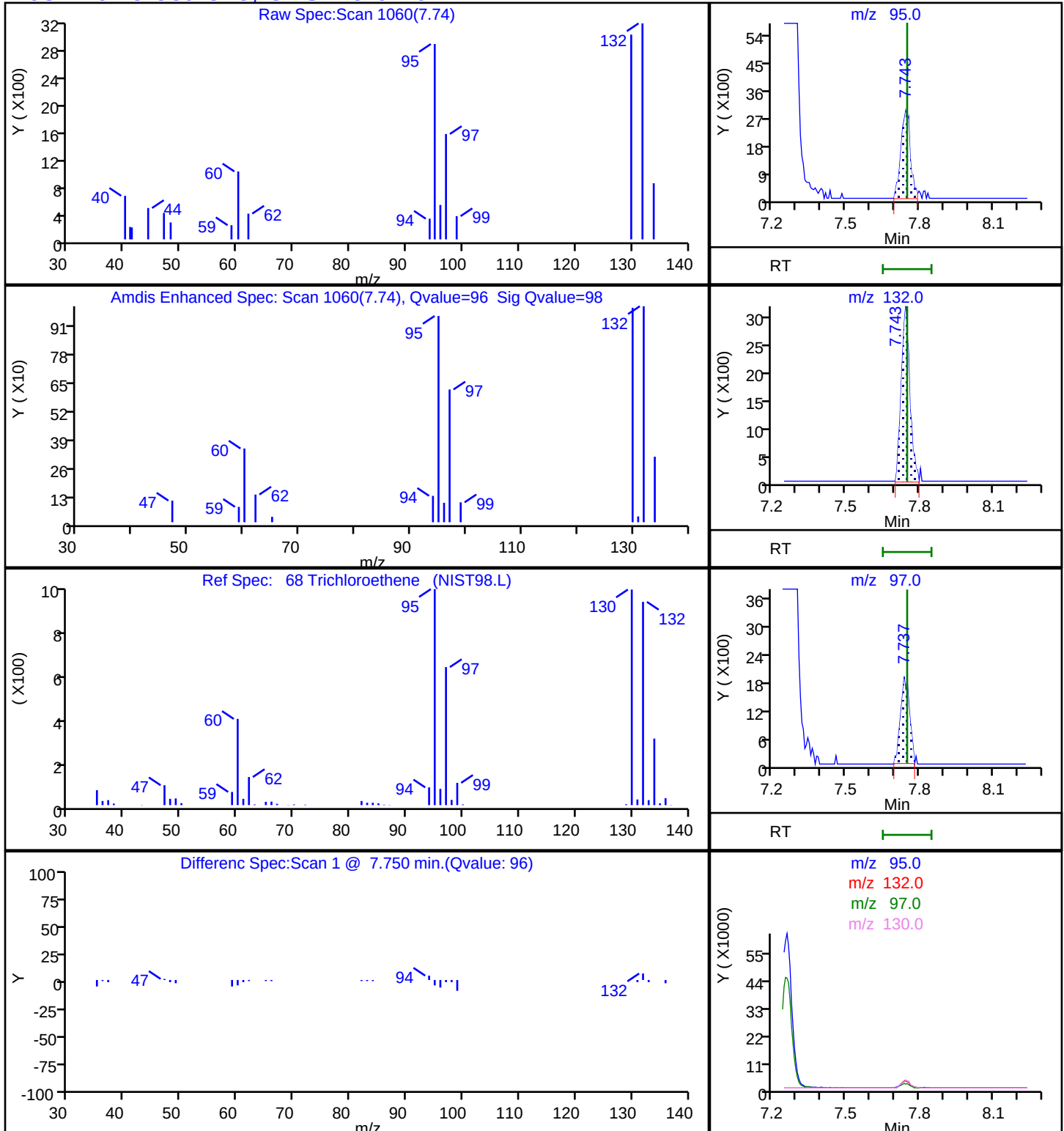
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X24.D
Injection Date: 30-Jul-2024 03:43:30 Instrument ID: 10193
Lims ID: 410-181527-A-11 Lab Sample ID: 410-181527-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

84 Toluene, CAS: 108-88-3

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X24.D
Injection Date: 30-Jul-2024 03:43:30 Instrument ID: 10193
Lims ID: 410-181527-A-11 Lab Sample ID: 410-181527-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

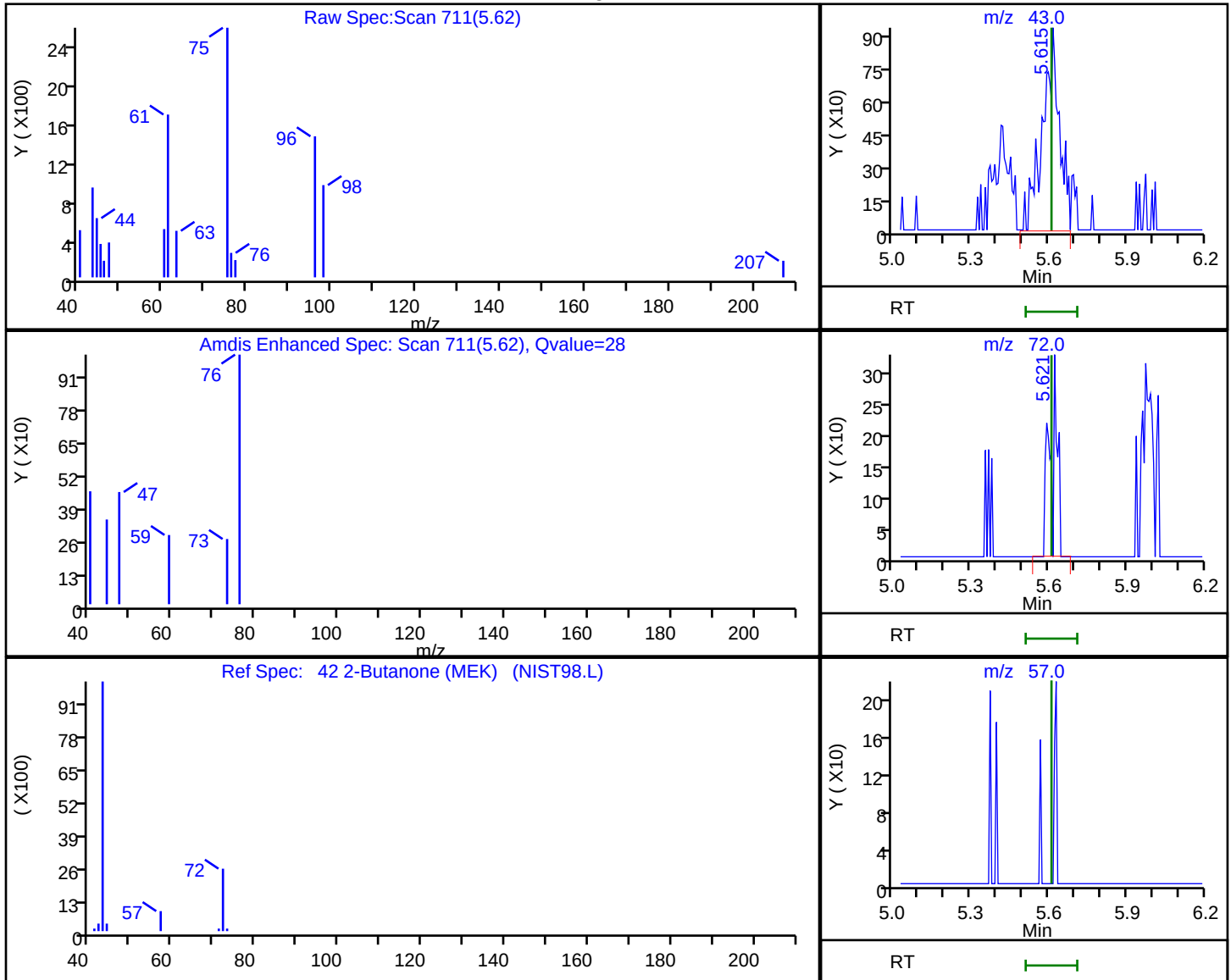
68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X24.D
Injection Date: 30-Jul-2024 03:43:30 Instrument ID: 10193
Lims ID: 410-181527-A-11 Lab Sample ID: 410-181527-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

42 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
5.62	43.00	4179	0.374302
5.62	72.00	649	
5.61	57.00	0	

Reviewer: N9NA, 30-Jul-2024 15:36:24 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

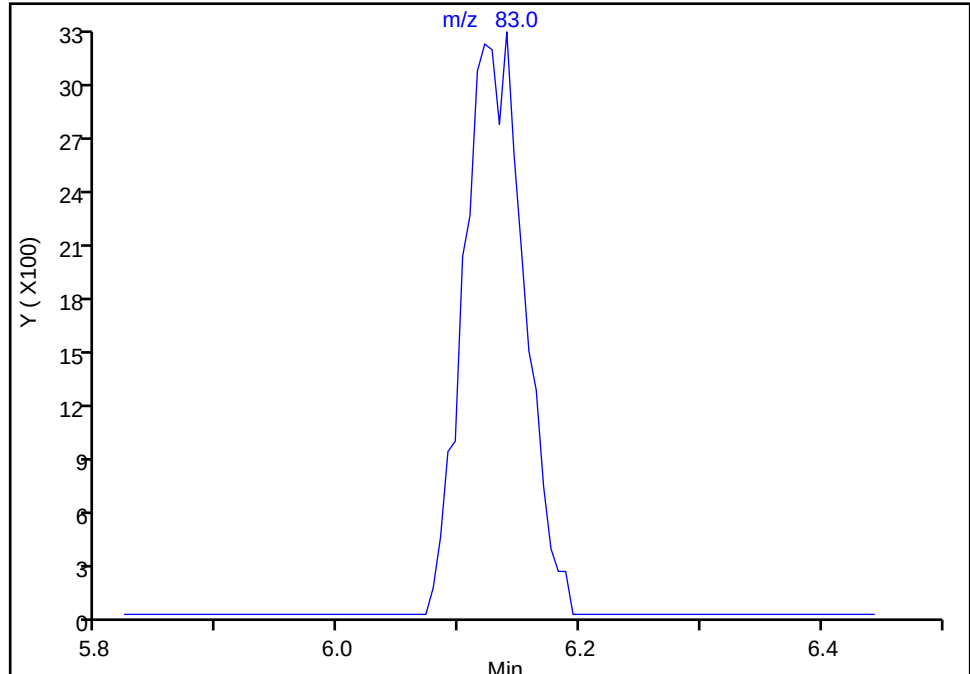
Data File:	\\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X24.D				
Injection Date:	30-Jul-2024 03:43:30	Instrument ID:	10193		
Lims ID:	410-181527-A-11	Lab Sample ID:	410-181527-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm ID)	Detector:	MS Quad		

50 Chloroform, CAS: 67-66-3

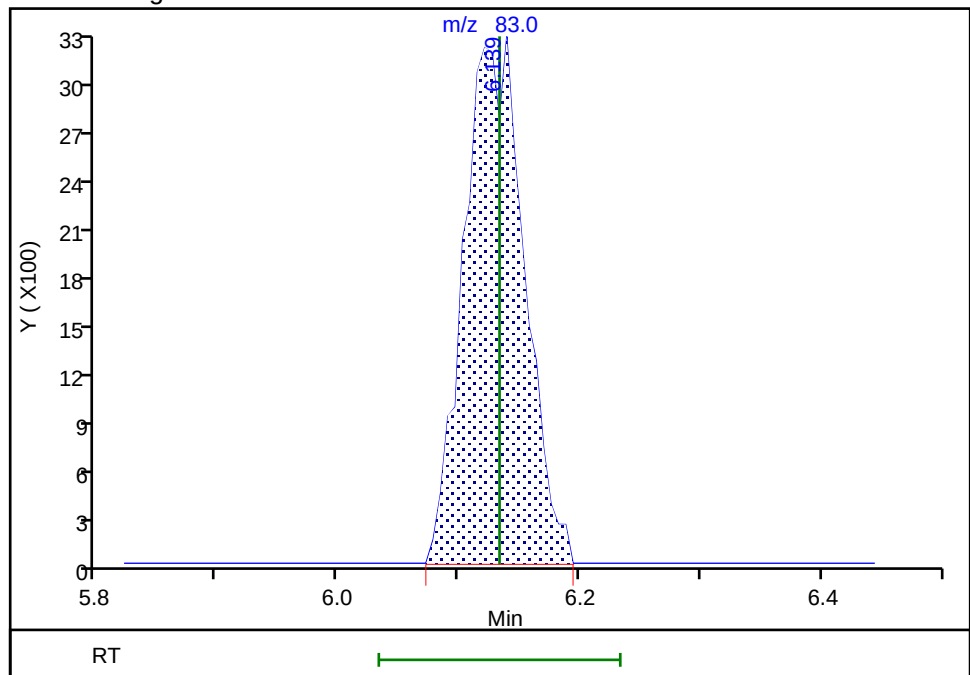
Signal: 1

Not Detected
Expected RT: 6.13

Processing Integration Results



Manual Integration Results

RT: 6.14
Area: 11436
Amount: 0.110590
Amount Units: ug/l

Reviewer: N9NA, 30-Jul-2024 15:36:34 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.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0

Lab Sample ID: 410-181527-12

Matrix: Water

Lab File ID: CL29X25.D

Analysis Method: 8260D

Date Collected: 07/25/2024 08:56

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 04:05

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.9	J	5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.097	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.16	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.57		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-181527-12

Matrix: Water Lab File ID: CL29X25.D

Analysis Method: 8260D Date Collected: 07/25/2024 08:56

Sample wt/vol: 25 (mL) Date Analyzed: 07/30/2024 04:05

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 533656 Units: ug/L

Preparation Batch No.: _____ Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.20	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		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\10193\20240729-120642.b\CL29X25.D
 Lims ID: 410-181527-A-12
 Client ID: HD-COD-SW-29-0/1-0
 Sample Type: Client
 Inject. Date: 30-Jul-2024 04:05:30 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-026
 Misc. Info.: 410-181527-A-12
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 15:37:30 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 15:37:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.000	1.988	0.012	94	2689	0.0343	
6 Vinyl chloride	62		2.091				ND	7
9 Bromomethane	94		2.402				ND	7
10 Chloroethane	64		2.439				ND	
18 1,1-Dichloroethene	96		3.195				ND	7
20 Acetone	43	3.219	3.213	0.006	97	13808	1.88	
25 Carbon disulfide	76		3.445				ND	7
30 Methylene Chloride	84		3.774				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.786	3.786	0.000	97	147797	50.0	
34 Methyl tert-butyl ether	73		4.128				ND	
35 trans-1,2-Dichloroethene	96		4.140				ND	
37 1,1-Dichloroethane	63		4.792				ND	7
42 2-Butanone (MEK)	43		5.609				ND	7
43 cis-1,2-Dichloroethene	96	5.640	5.640	0.000	73	10076	0.1574	
48 Chlorobromomethane	128		5.975				ND	
50 Chloroform	83	6.134	6.133	0.001	92	10068	0.0971	
\$ 54 Dibromofluoromethane (Surr)	113	6.353	6.359	-0.006	94	507527	10.0	
53 1,1,1-Trichloroethane	97		6.359				ND	U
56 Carbon tetrachloride	117		6.566				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.816	6.816	0.000	99	107360	10.4	
60 Benzene	78		6.841				ND	7
61 1,2-Dichloroethane	62		6.920				ND	
* 65 Fluorobenzene (IS)	96	7.261	7.261	0.000	99	2087325	10.0	
68 Trichloroethene	95	7.755	7.749	0.006	93	12767	0.1992	
70 1,2-Dichloropropane	63		8.090				ND	
76 Dichlorobromomethane	83		8.450				ND	7
80 cis-1,3-Dichloropropene	75		9.017				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2103874	9.96	
84 Toluene	92	9.432	9.432	0.000	99	10844	0.0692	
85 trans-1,3-Dichloropropene	75		9.718				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.938				ND	
88 Tetrachloroethene	166	10.011	10.017	-0.006	96	44709	0.5747	
106 2-Hexanone	43		10.175				ND	7
108 Chlorodibromomethane	129		10.328				ND	
110 Ethylene Dibromide	107		10.437				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.895	10.895	0.000	84	1649359	10.0	
113 Chlorobenzene	112		10.919				ND	
114 1,1,1,2-Tetrachloroethane	131		11.010				ND	
115 Ethylbenzene	91		11.017				ND	7
116 m-Xylene & p-Xylene	106	11.133	11.138	-0.005	97	5183	0.0411	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.480				ND	7
119 Styrene	104		11.492				ND	7
120 Bromoform	173		11.651				ND	7
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	97	744953	9.38	
126 1,1,2,2-Tetrachloroethane	83		12.047				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.833	12.839	-0.006	93	929321	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 30-Jul-2024 15:37:30

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X25.D

Injection Date: 30-Jul-2024 04:05:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-A-12

Lab Sample ID: 410-181527-12

Worklist Smp#: 26

Client ID: HD-COD-SW-29-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

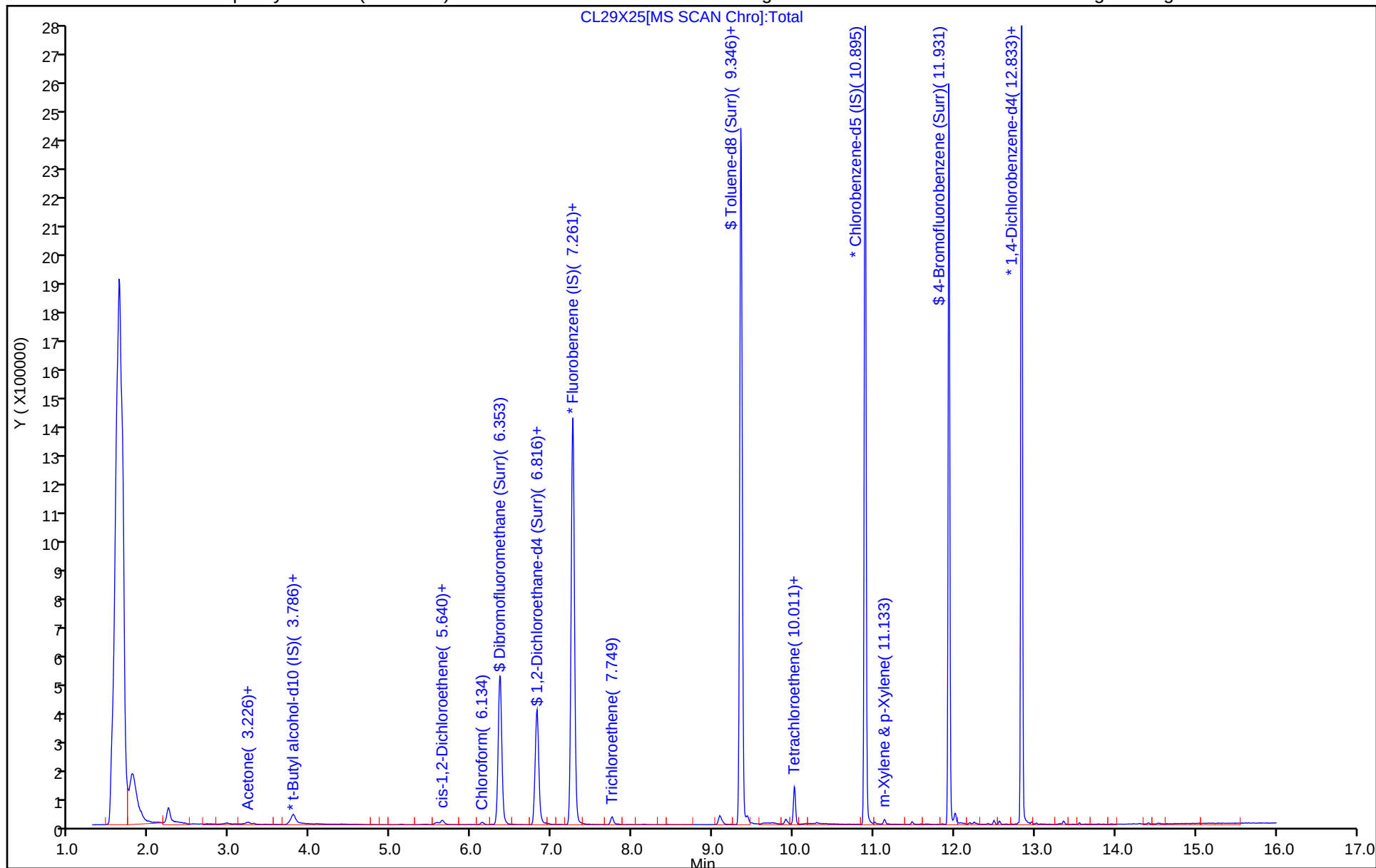
ALS Bottle#: 25

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X25.D
Lims ID: 410-181527-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 30-Jul-2024 04:05:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-026
Misc. Info.: 410-181527-A-12
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 15:37:30 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1692

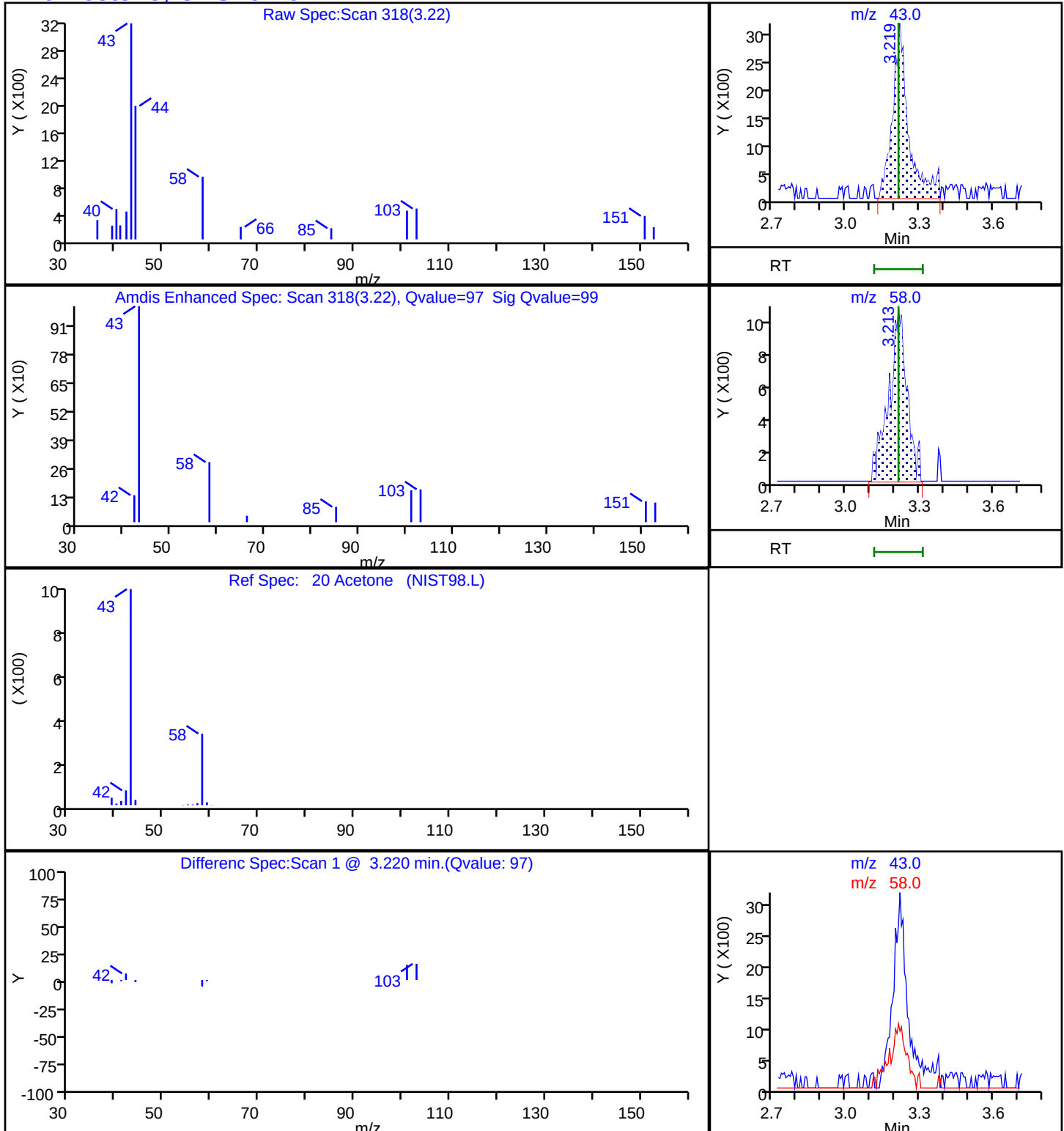
First Level Reviewer: N9NA

Date: 30-Jul-2024 15:37:30

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.0	100.40
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.81
\$ 83 Toluene-d8 (Surr)	10.0	9.96	99.55
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.38	93.77

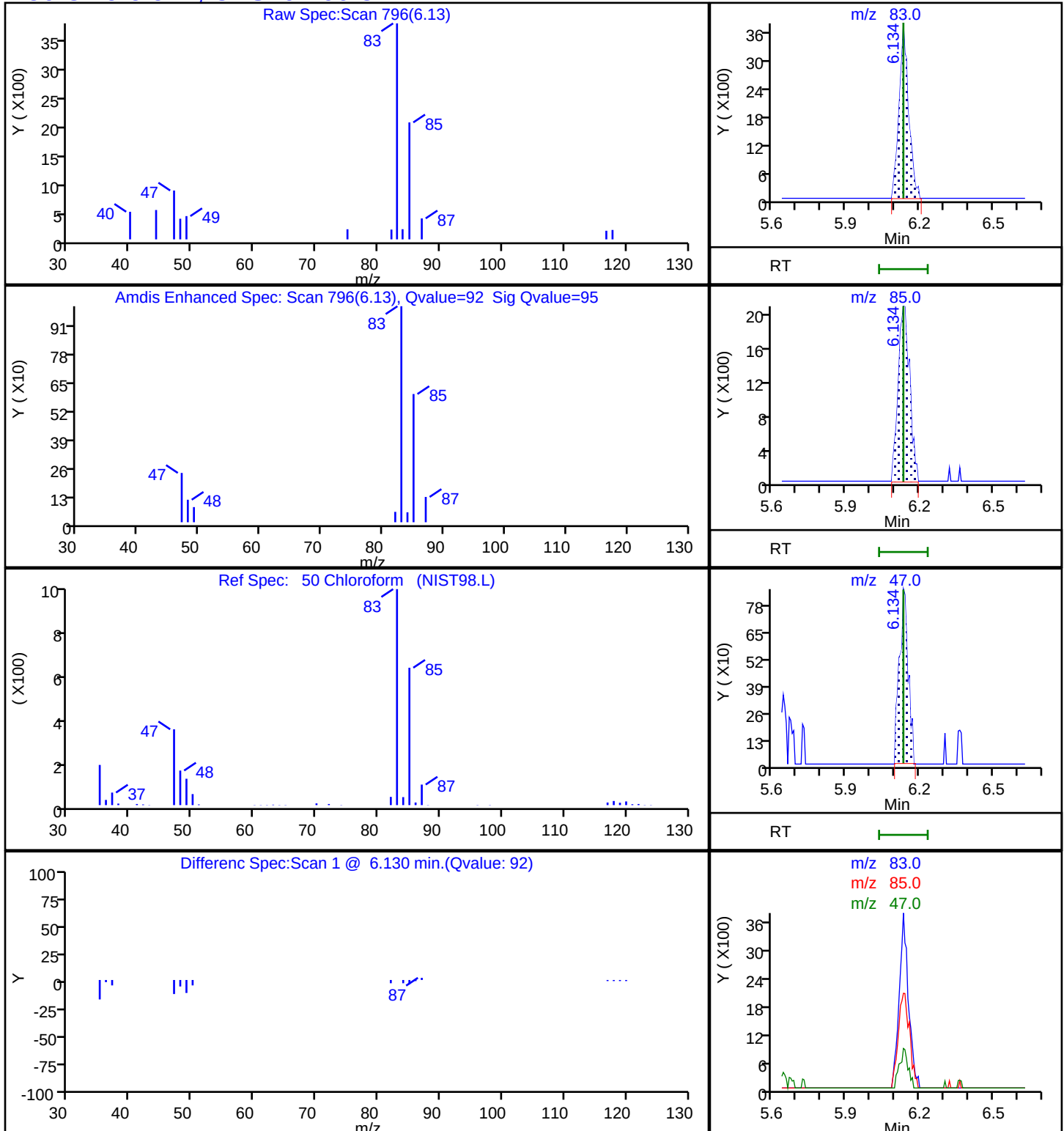
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X25.D
Injection Date: 30-Jul-2024 04:05:30 Instrument ID: 10193
Lims ID: 410-181527-A-12 Lab Sample ID: 410-181527-12
Client ID: HD-COD-SW-29-0/1-0
Operator ID: gaw91131 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

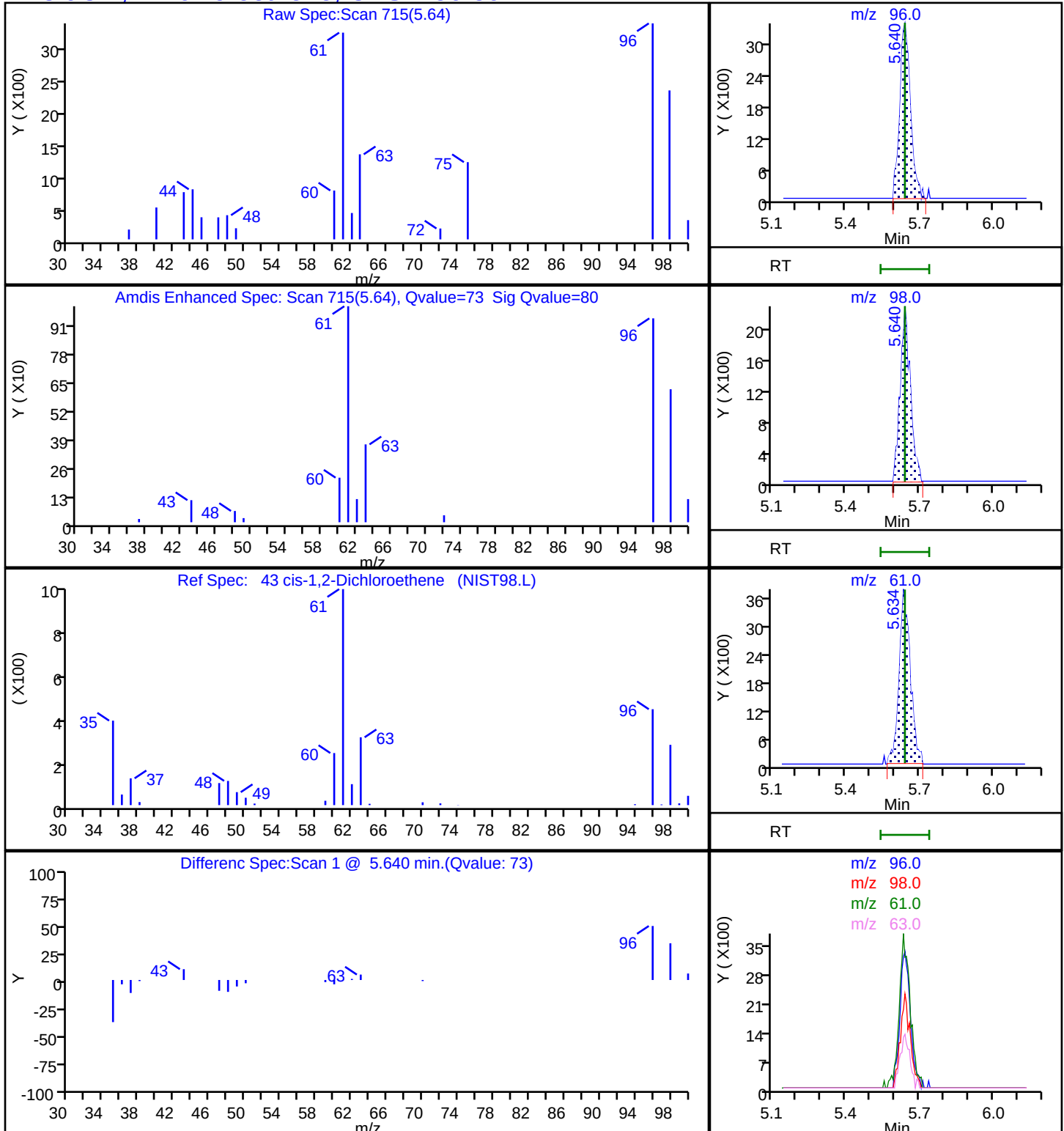
20 Acetone, CAS: 67-64-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X25.D
Injection Date: 30-Jul-2024 04:05:30 Instrument ID: 10193
Lims ID: 410-181527-A-12 Lab Sample ID: 410-181527-12
Client ID: HD-COD-SW-29-0/1-0
Operator ID: gaw91131 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

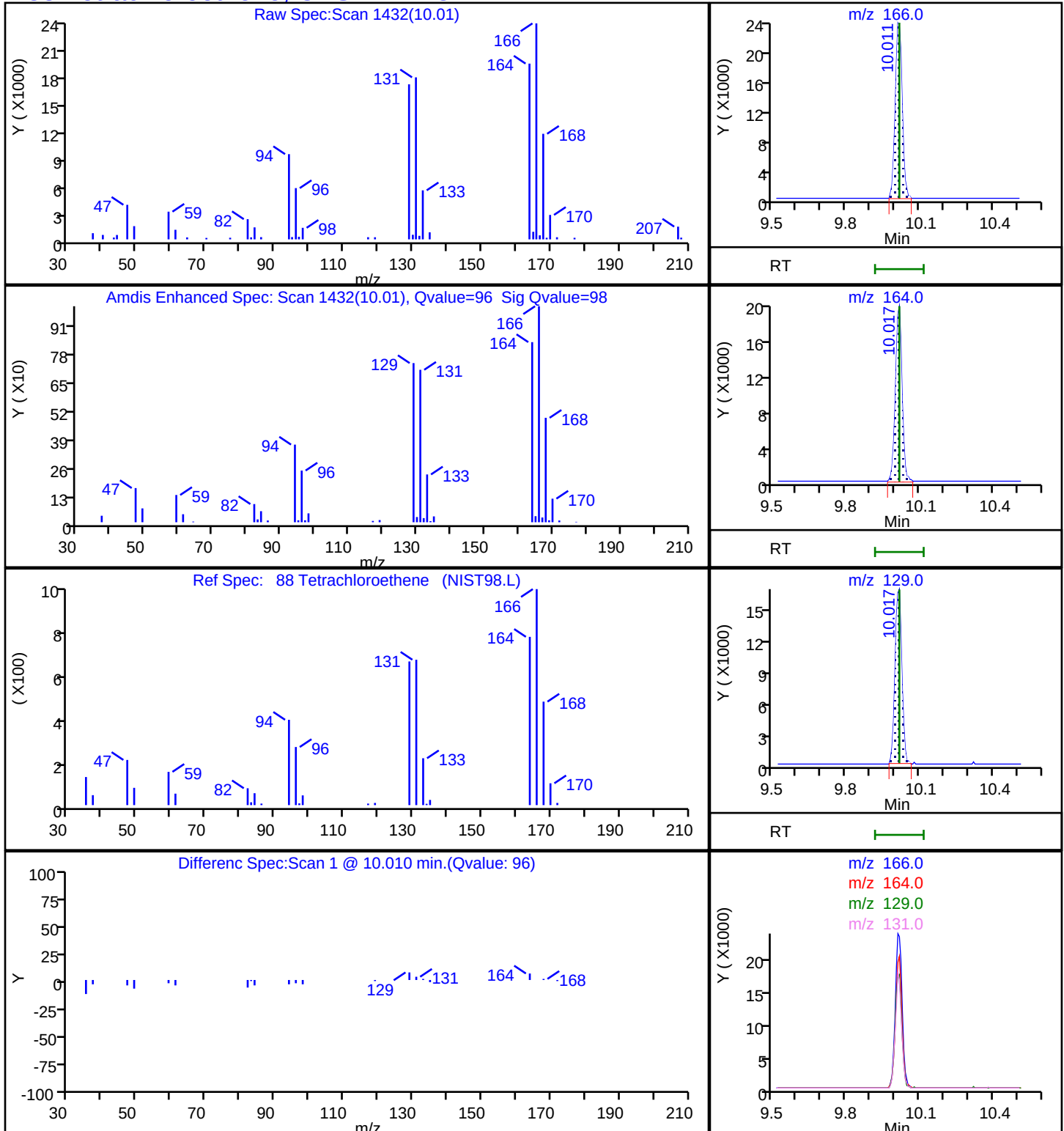
50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X25.D
Injection Date: 30-Jul-2024 04:05:30 Instrument ID: 10193
Lims ID: 410-181527-A-12 Lab Sample ID: 410-181527-12
Client ID: HD-COD-SW-29-0/1-0
Operator ID: gaw91131 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-59-2

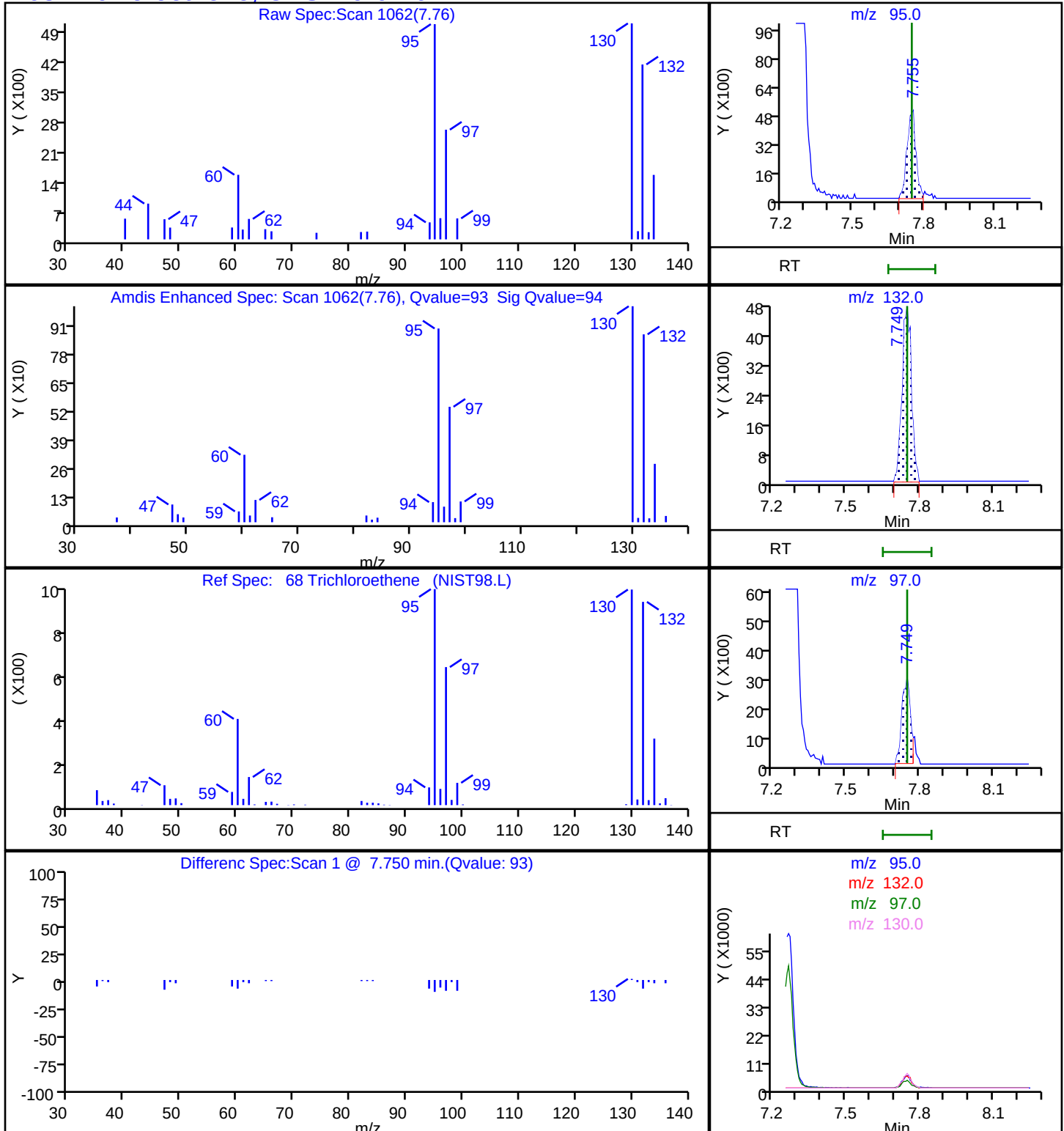
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X25.D
Injection Date: 30-Jul-2024 04:05:30 Instrument ID: 10193
Lims ID: 410-181527-A-12 Lab Sample ID: 410-181527-12
Client ID: HD-COD-SW-29-0/1-0
Operator ID: gaw91131 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

88 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X25.D
Injection Date: 30-Jul-2024 04:05:30 Instrument ID: 10193
Lims ID: 410-181527-A-12 Lab Sample ID: 410-181527-12
Client ID: HD-COD-SW-29-0/1-0
Operator ID: gaw91131 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

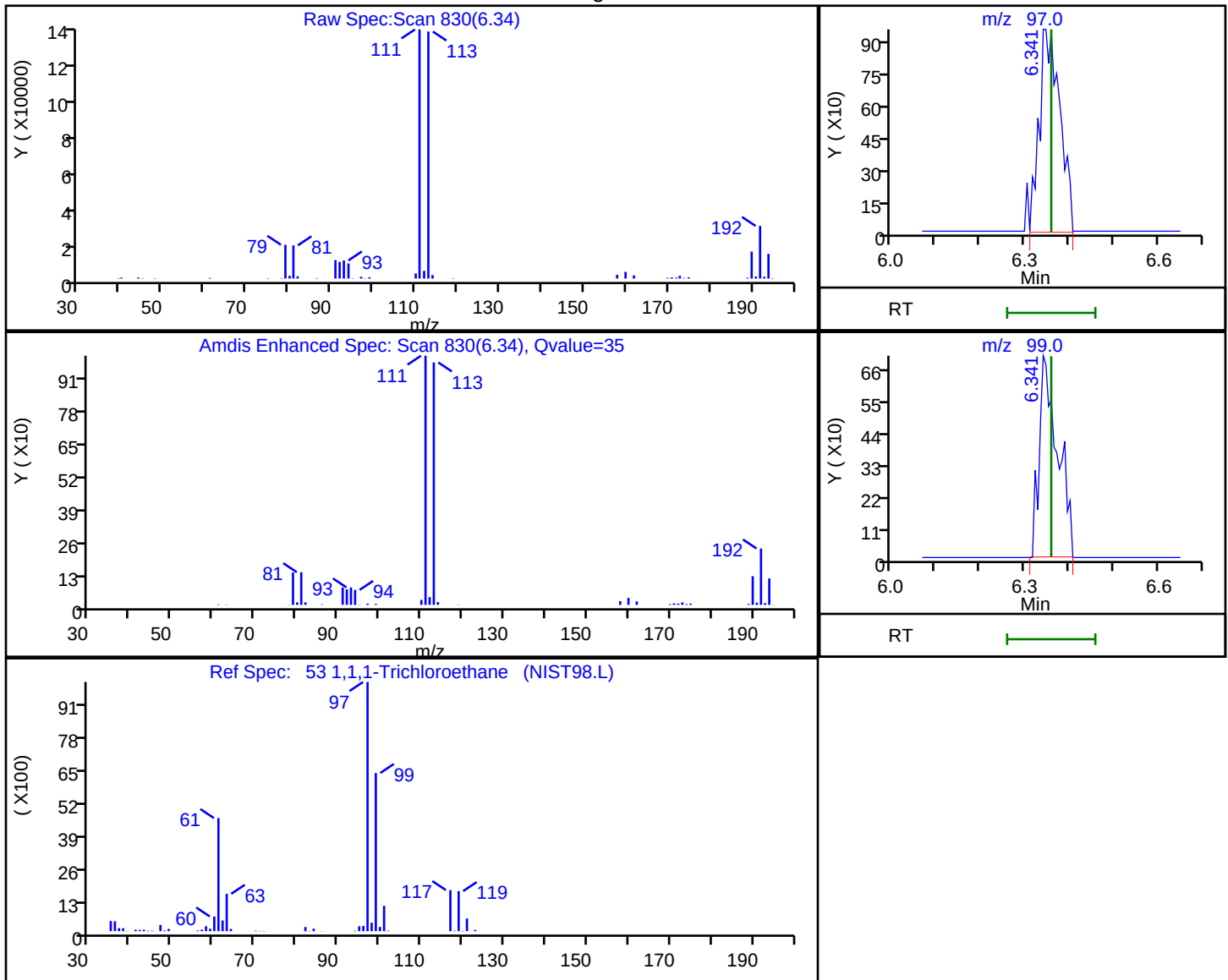
68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X25.D
Injection Date: 30-Jul-2024 04:05:30 Instrument ID: 10193
Lims ID: 410-181527-A-12 Lab Sample ID: 410-181527-12
Client ID: HD-COD-SW-29-0/1-0
Operator ID: gaw91131 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

53 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
6.34	97.00	3106	0.035850
6.34	99.00	2045	

Reviewer: N9NA, 30-Jul-2024 15:37:15 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.: 410-181527-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1

Lab Sample ID: 410-181527-13

Matrix: Water

Lab File ID: CL29X28.D

Analysis Method: 8260D

Date Collected: 07/25/2024 08:00

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 05:12

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	12		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	2.1		0.50	0.10
75-35-4	1,1-Dichloroethene	1.0		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.18	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	3.3		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1

Lab Sample ID: 410-181527-13

Matrix: Water

Lab File ID: CL29X28.D

Analysis Method: 8260D

Date Collected: 07/25/2024 08:00

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 05:12

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	6.5		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X28.D
 Lims ID: 410-181527-A-13
 Client ID: HD-QC1-0/1-1
 Sample Type: Client
 Inject. Date: 30-Jul-2024 05:12:30 ALS Bottle#: 28 Worklist Smp#: 29
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-029
 Misc. Info.: 410-181527-A-13
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 09:44:21 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1626

First Level Reviewer: DVW2

Date: 30-Jul-2024 09:43:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.988				ND	
6 Vinyl chloride	62		2.091				ND	7
9 Bromomethane	94		2.402				ND	
10 Chloroethane	64		2.439				ND	
18 1,1-Dichloroethene	96	3.189	3.195	-0.006	97	47219	1.01	
20 Acetone	43	3.225	3.213	0.012	21	4259	0.5982	
25 Carbon disulfide	76		3.445				ND	
30 Methylene Chloride	84		3.774				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.792	3.786	0.006	97	143562	50.0	
34 Methyl tert-butyl ether	73	4.128	4.128	0.000	59	3800	0.0266	
35 trans-1,2-Dichloroethene	96	4.128	4.140	-0.012	95	2873	0.0515	
37 1,1-Dichloroethane	63	4.786	4.792	-0.006	96	200899	2.10	
42 2-Butanone (MEK)	43		5.609				ND	7
43 cis-1,2-Dichloroethene	96	5.640	5.640	0.000	77	206993	3.30	
48 Chlorobromomethane	128		5.975				ND	
50 Chloroform	83	6.133	6.133	0.000	93	18611	0.1834	
\$ 54 Dibromofluoromethane (Surr)	113	6.353	6.359	-0.006	94	508571	10.3	
53 1,1,1-Trichloroethane	97	6.359	6.359	0.000	97	1015567	12.0	
56 Carbon tetrachloride	117	6.572	6.566	0.006	92	3513	0.0458	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.816	6.816	0.000	99	107661	10.6	
60 Benzene	78		6.841				ND	7
61 1,2-Dichloroethane	62		6.920				ND	
* 65 Fluorobenzene (IS)	96	7.261	7.261	0.000	99	2042379	10.0	
68 Trichloroethene	95	7.743	7.749	-0.006	97	407273	6.49	
70 1,2-Dichloropropane	63		8.090				ND	
76 Dichlorobromomethane	83		8.450				ND	
80 cis-1,3-Dichloropropene	75		9.017				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2049992	9.61	
84 Toluene	92	9.432	9.432	0.000	96	5156	0.0326	
85 trans-1,3-Dichloropropene	75		9.718				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97	9.931	9.938	-0.007	82	1663	0.0364	
88 Tetrachloroethene	166	10.017	10.017	0.000	95	13453065	171.4	E
106 2-Hexanone	43		10.175				ND	7
108 Chlorodibromomethane	129		10.328				ND	
110 Ethylene Dibromide	107		10.437				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.895	10.895	0.000	83	1664244	10.0	
113 Chlorobenzene	112		10.919				ND	U
114 1,1,1,2-Tetrachloroethane	131		11.010				ND	7
115 Ethylbenzene	91		11.017				ND	7
116 m-Xylene & p-Xylene	106		11.138				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.480				ND	7
119 Styrene	104		11.492				ND	7
120 Bromoform	173		11.651				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	97	748741	9.34	
126 1,1,2,2-Tetrachloroethane	83		12.047				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.833	12.839	-0.006	93	921987	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 30-Jul-2024 09:44:34

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X28.D

Injection Date: 30-Jul-2024 05:12:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-A-13

Lab Sample ID: 410-181527-13

Worklist Smp#: 29

Client ID: HD-QC1-0/1-1

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

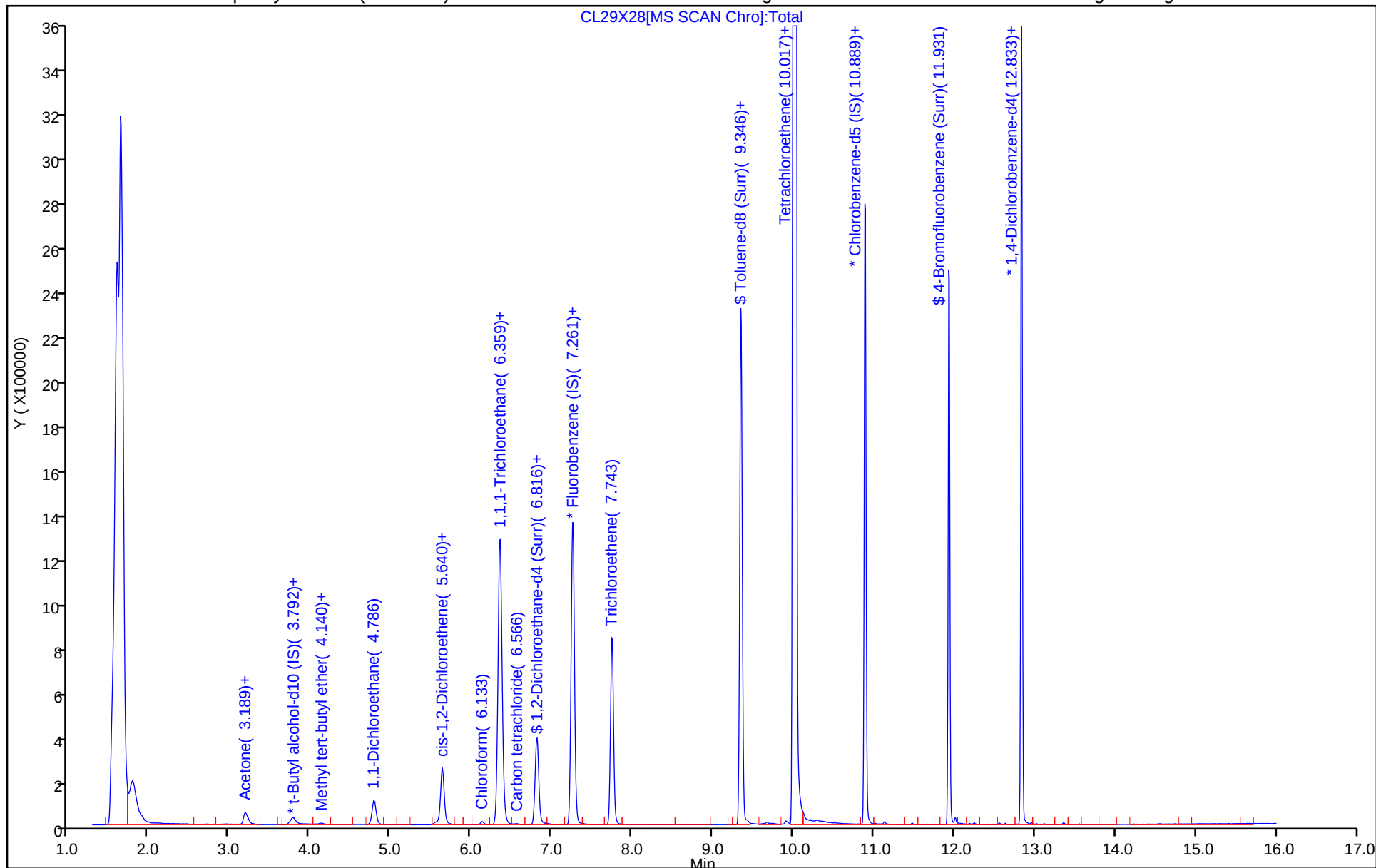
ALS Bottle#: 28

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X28.D
Lims ID: 410-181527-A-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 30-Jul-2024 05:12:30 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-029
Misc. Info.: 410-181527-A-13
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 09:44:21 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1626

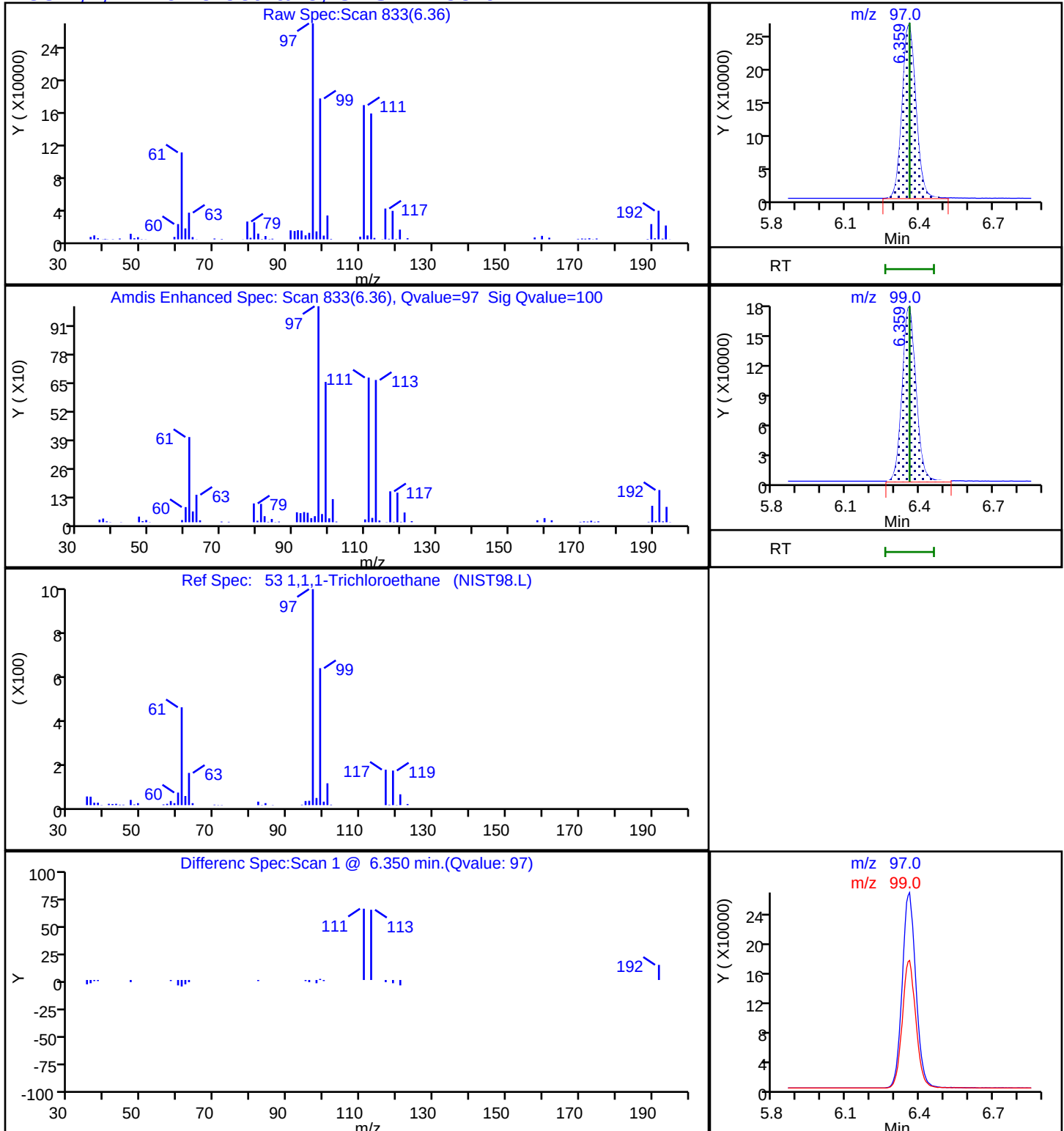
First Level Reviewer: DVW2

Date: 30-Jul-2024 09:43:46

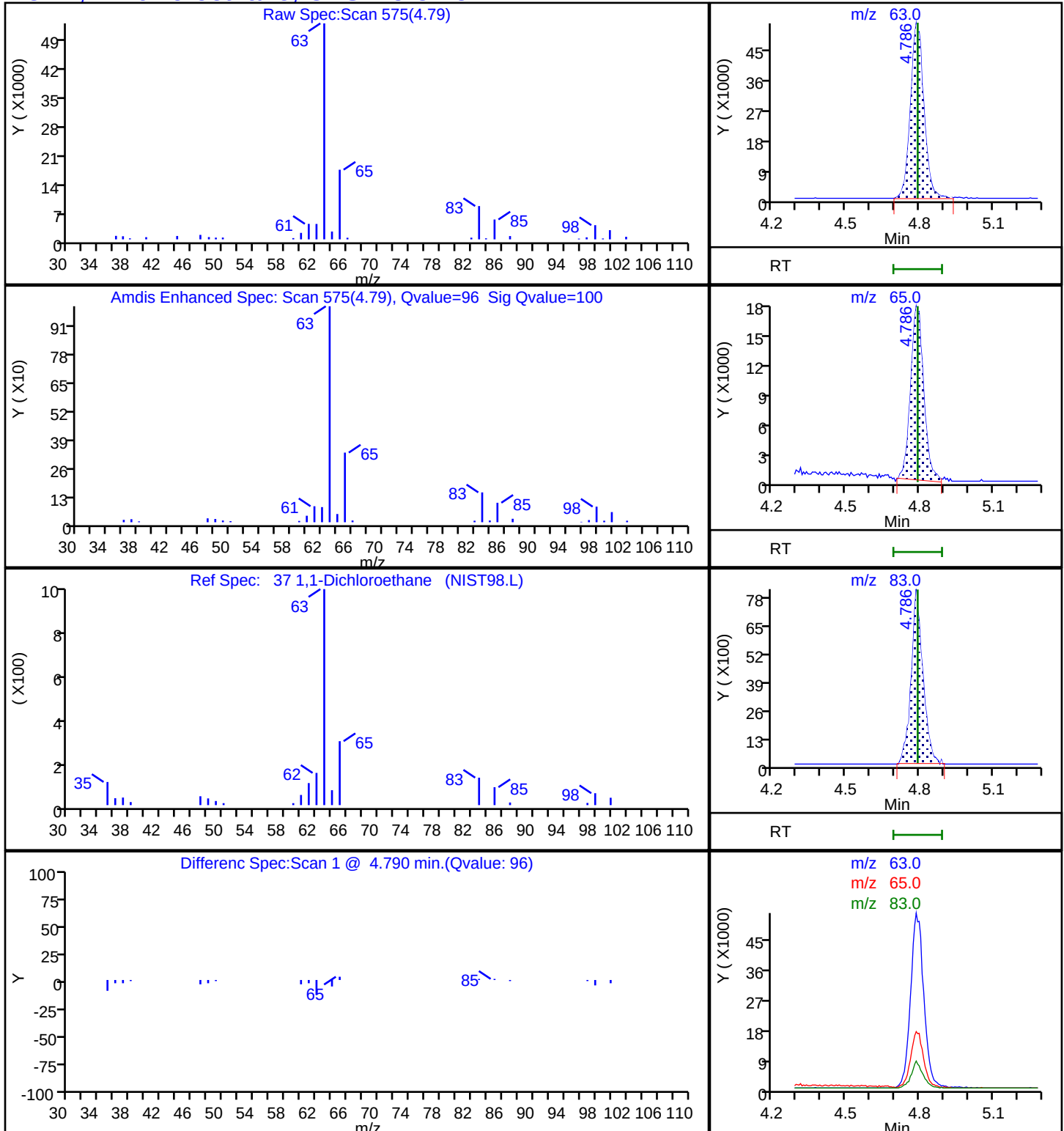
Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.3	102.83
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	106.40
\$ 83 Toluene-d8 (Surr)	10.0	9.61	96.14
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.34	93.41

Eurofins Lancaster Laboratories Environment Testing, LLC

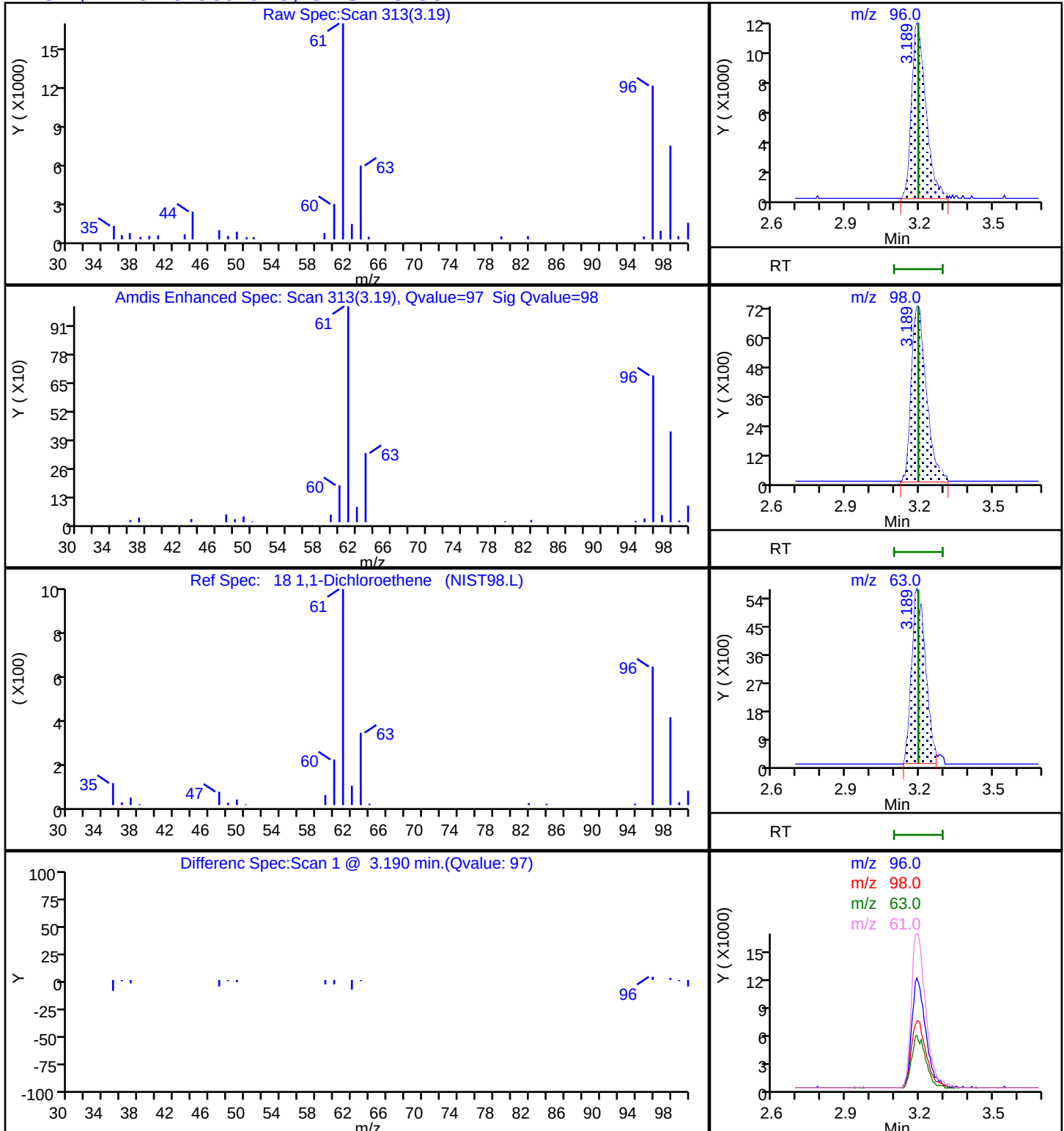
Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X28.D
Injection Date: 30-Jul-2024 05:12:30 Instrument ID: 10193
Lims ID: 410-181527-A-13 Lab Sample ID: 410-181527-13
Client ID: HD-QC1-0/1-1
Operator ID: gaw91131 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

53 1,1,1-Trichloroethane, CAS: 71-55-6

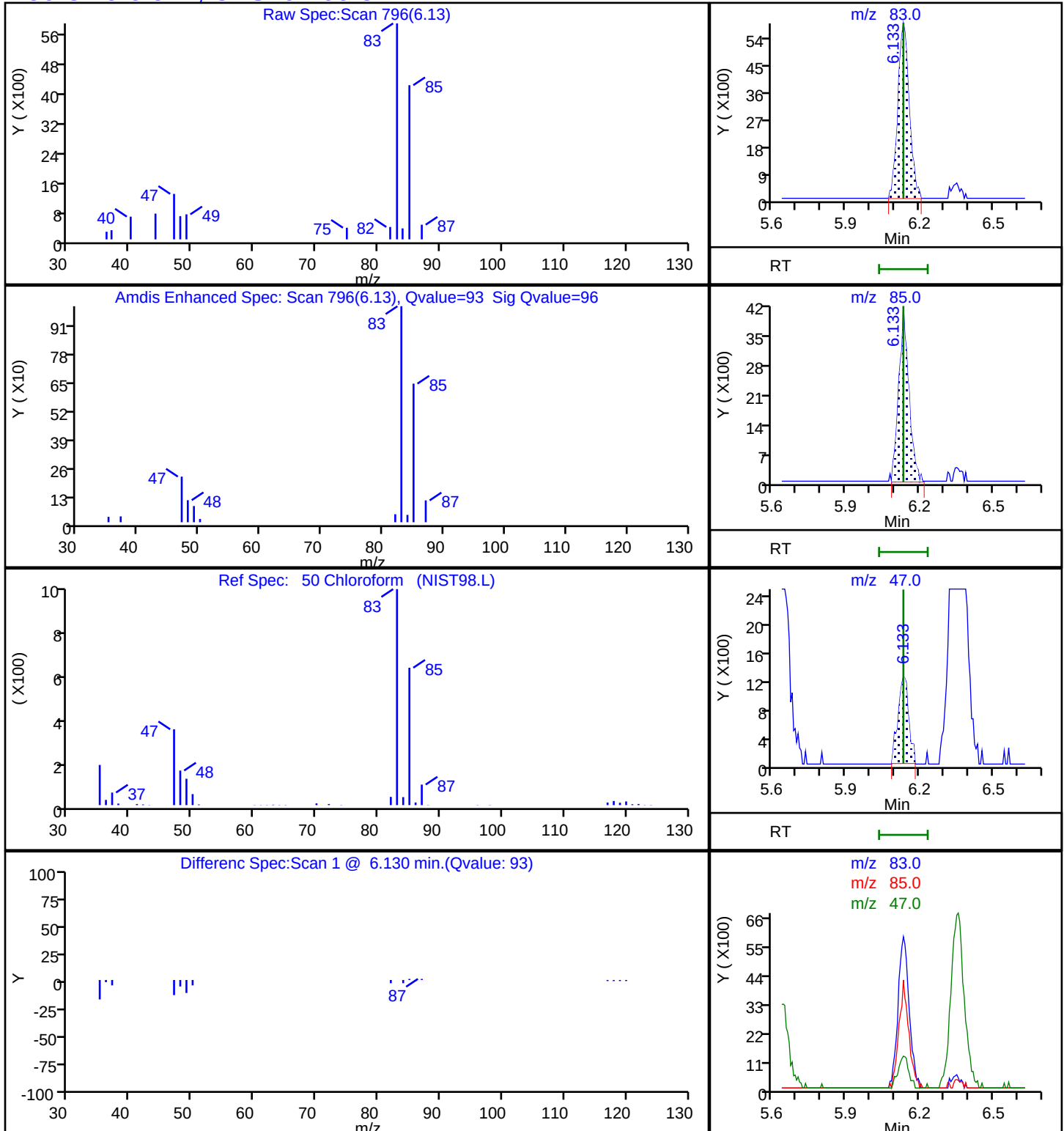
Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X28.D
Injection Date: 30-Jul-2024 05:12:30 Instrument ID: 10193
Lims ID: 410-181527-A-13 Lab Sample ID: 410-181527-13
Client ID: HD-QC1-0/1-1
Operator ID: gaw91131 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) MS Quad

37 1,1-Dichloroethane, CAS: 75-34-3

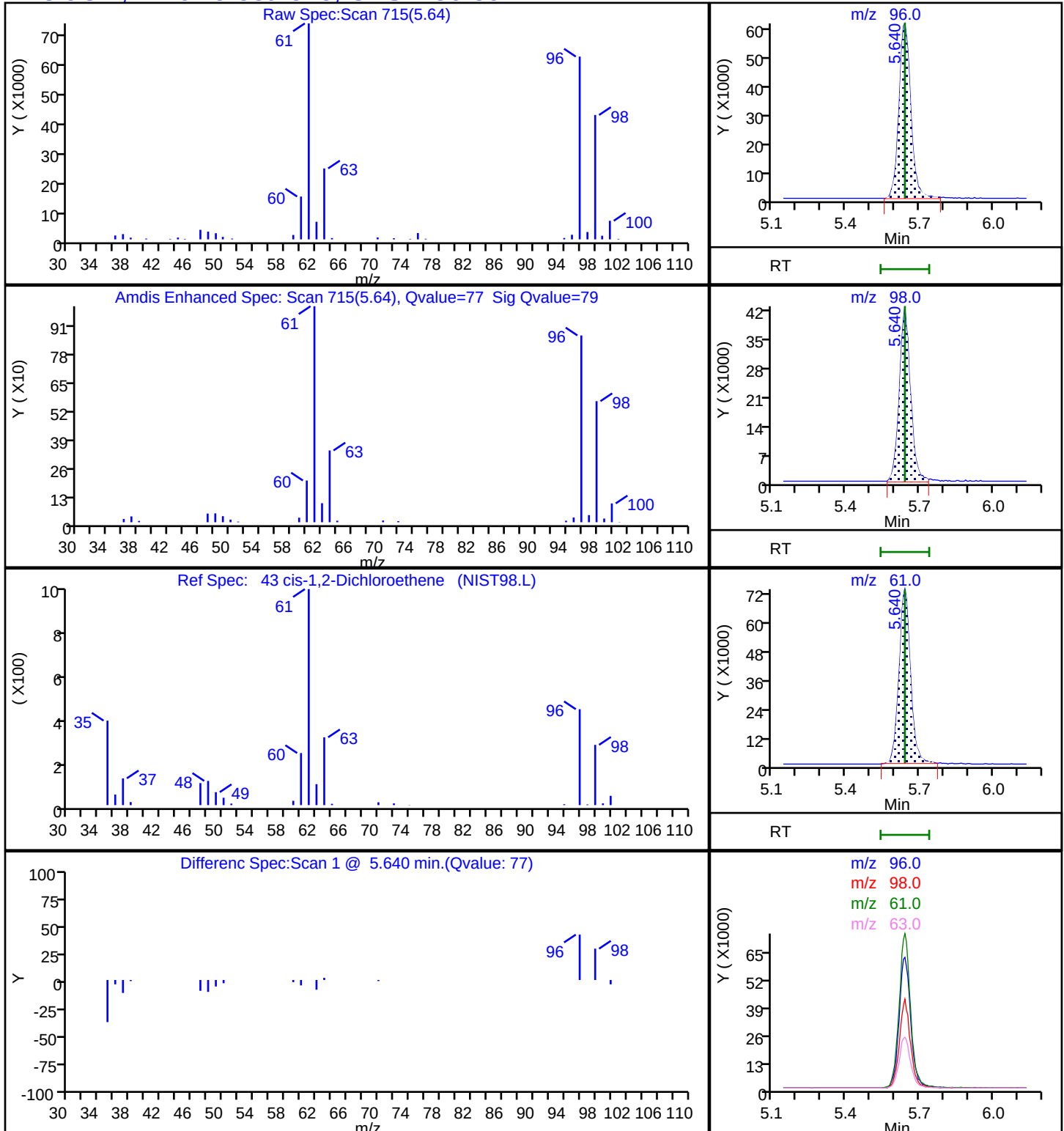
Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X28.D
Injection Date: 30-Jul-2024 05:12:30 Instrument ID: 10193
Lims ID: 410-181527-A-13 Lab Sample ID: 410-181527-13
Client ID: HD-QC1-0/1-1
Operator ID: gaw91131 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) MS Quad

18 1,1-Dichloroethene, CAS: 75-35-4

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X28.D
Injection Date: 30-Jul-2024 05:12:30 Instrument ID: 10193
Lims ID: 410-181527-A-13 Lab Sample ID: 410-181527-13
Client ID: HD-QC1-0/1-1
Operator ID: gaw91131 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

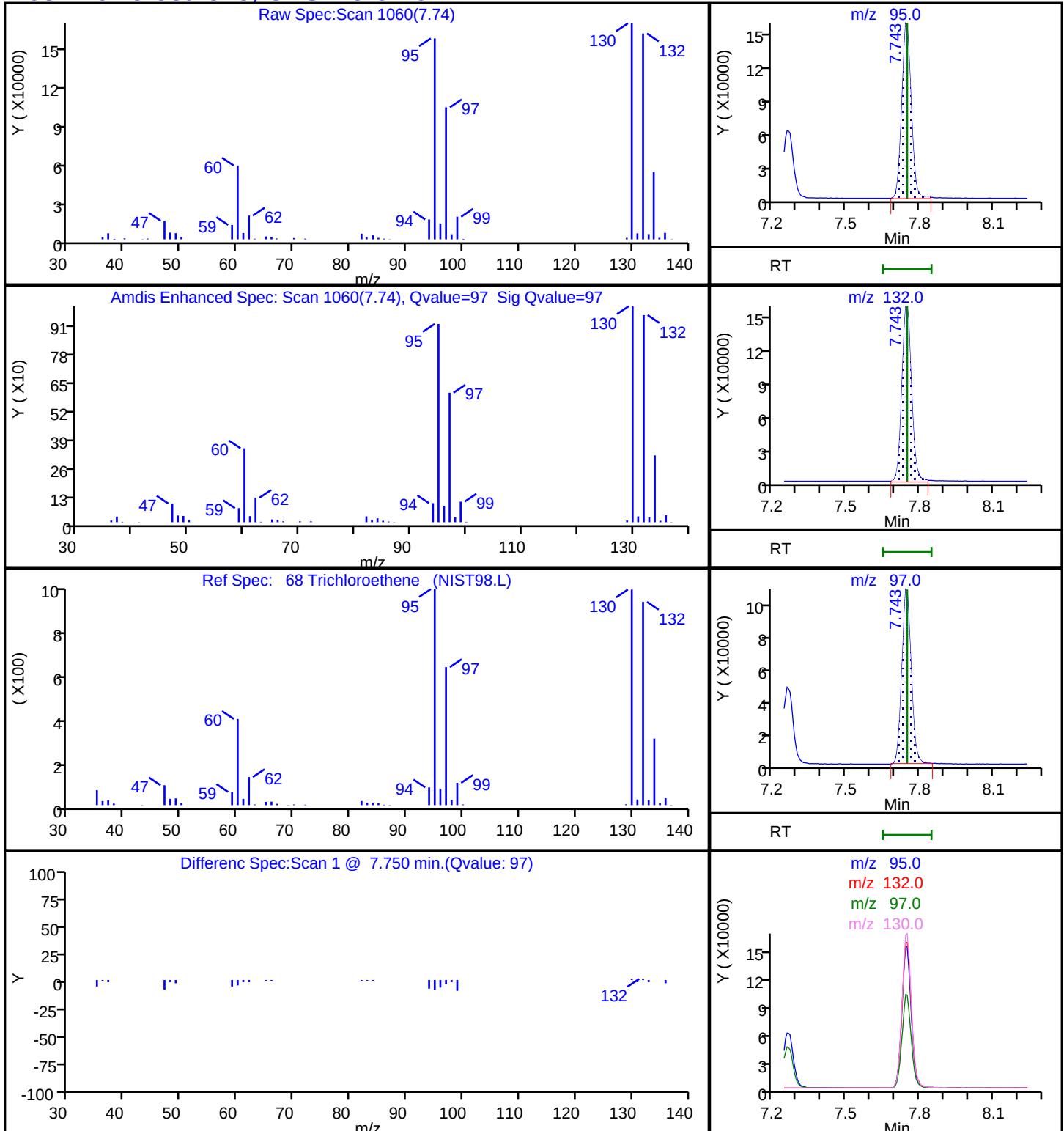
50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X28.D
Injection Date: 30-Jul-2024 05:12:30 Instrument ID: 10193
Lims ID: 410-181527-A-13 Lab Sample ID: 410-181527-13
Client ID: HD-QC1-0/1-1
Operator ID: gaw91131 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X28.D
Injection Date: 30-Jul-2024 05:12:30 Instrument ID: 10193
Lims ID: 410-181527-A-13 Lab Sample ID: 410-181527-13
Client ID: HD-QC1-0/1-1
Operator ID: gaw91131 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

68 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1 DL

Lab Sample ID: 410-181527-13 DL

Matrix: Water

Lab File ID: CL29X29.D

Analysis Method: 8260D

Date Collected: 07/25/2024 08:00

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 05:35

Soil Aliquot Vol:

Dilution Factor: 10

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	140		5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		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)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X29.D
 Lims ID: 410-181527-B-13 DL
 Client ID: HD-QC1-0/1-1
 Sample Type: Client
 Inject. Date: 30-Jul-2024 05:35:30 ALS Bottle#: 29 Worklist Smp#: 30
 Purge Vol: 25.000 mL Dil. Factor: 10.0000
 Sample Info: 410-0120642-030
 Misc. Info.: 410-181527-B-13
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 09:44:21 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1626

First Level Reviewer: DVW2

Date: 30-Jul-2024 09:44:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.988				ND	
6 Vinyl chloride	62		2.091				ND	
9 Bromomethane	94		2.402				ND	7
10 Chloroethane	64		2.439				ND	
18 1,1-Dichloroethene	96	3.189	3.195	-0.006	95	3131	0.0683	
20 Acetone	43		3.213				ND	7
25 Carbon disulfide	76		3.445				ND	
30 Methylene Chloride	84		3.774				ND	MU
* 31 t-Butyl alcohol-d10 (IS)	65	3.780	3.786	-0.006	97	151814	50.0	
34 Methyl tert-butyl ether	73		4.128				ND	
35 trans-1,2-Dichloroethene	96	4.140	4.140	0.000	5	1398	0.0256	
37 1,1-Dichloroethane	63	4.786	4.792	-0.006	95	17588	0.1873	
42 2-Butanone (MEK)	43		5.609				ND	
43 cis-1,2-Dichloroethene	96	5.634	5.640	-0.006	77	17928	0.2920	
48 Chlorobromomethane	128		5.975				ND	
50 Chloroform	83		6.133				ND	7
\$ 54 Dibromofluoromethane (Surr)	113	6.353	6.359	-0.006	94	487610	10.1	
53 1,1,1-Trichloroethane	97	6.353	6.359	-0.006	48	82627	0.99	
56 Carbon tetrachloride	117		6.566				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.816	6.816	0.000	98	104182	10.5	
60 Benzene	78		6.841				ND	
61 1,2-Dichloroethane	62		6.920				ND	
* 65 Fluorobenzene (IS)	96	7.261	7.261	0.000	100	2002310	10.0	
68 Trichloroethene	95	7.749	7.749	0.000	98	34154	0.5555	
70 1,2-Dichloropropane	63		8.090				ND	
76 Dichlorobromomethane	83		8.450				ND	
80 cis-1,3-Dichloropropene	75		9.017				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	1999884	9.67	
84 Toluene	92		9.432				ND	7
85 trans-1,3-Dichloropropene	75		9.718				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.938				ND	U
88 Tetrachloroethene	166	10.011	10.017	-0.006	97	1052389	13.8	
106 2-Hexanone	43		10.175				ND	7
108 Chlorodibromomethane	129		10.328				ND	
110 Ethylene Dibromide	107		10.437				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.895	10.895	0.000	84	1613654	10.0	
113 Chlorobenzene	112		10.919				ND	
114 1,1,1,2-Tetrachloroethane	131		11.010				ND	
115 Ethylbenzene	91		11.017				ND	
116 m-Xylene & p-Xylene	106		11.138				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.480				ND	
119 Styrene	104		11.492				ND	7
120 Bromoform	173		11.651				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	96	716881	9.22	
126 1,1,2,2-Tetrachloroethane	83		12.047				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.833	12.839	-0.006	93	879123	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 30-Jul-2024 09:44:37

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X29.D

Injection Date: 30-Jul-2024 05:35:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-B-13 DL

Lab Sample ID: 410-181527-13

Worklist Smp#: 30

Client ID: HD-QC1-0/1-1

Purge Vol: 25.000 mL

Dil. Factor: 10.0000

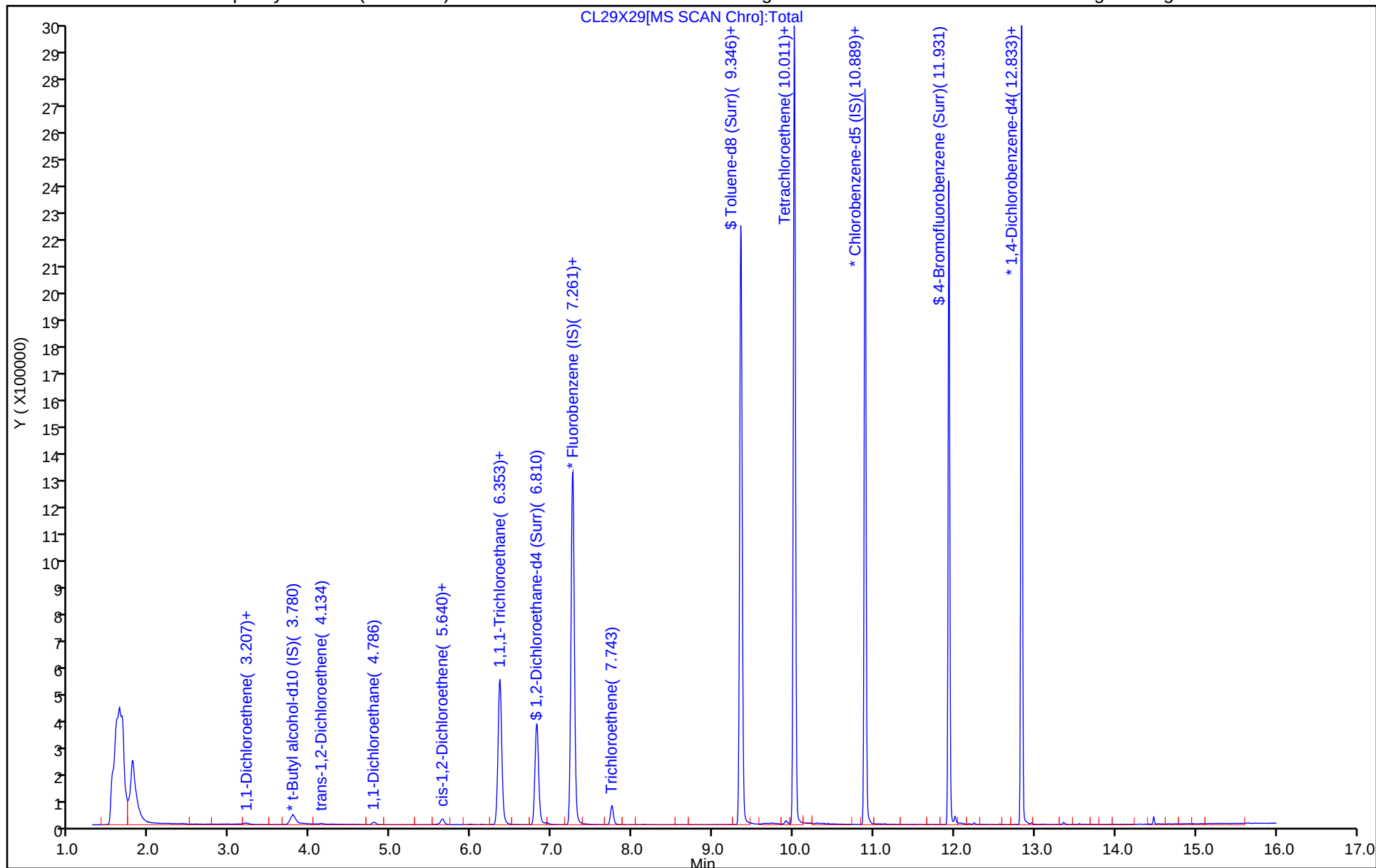
ALS Bottle#: 29

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X29.D
Lims ID: 410-181527-B-13 DL
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 30-Jul-2024 05:35:30 ALS Bottle#: 29 Worklist Smp#: 30
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0120642-030
Misc. Info.: 410-181527-B-13
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 09:44:21 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1626

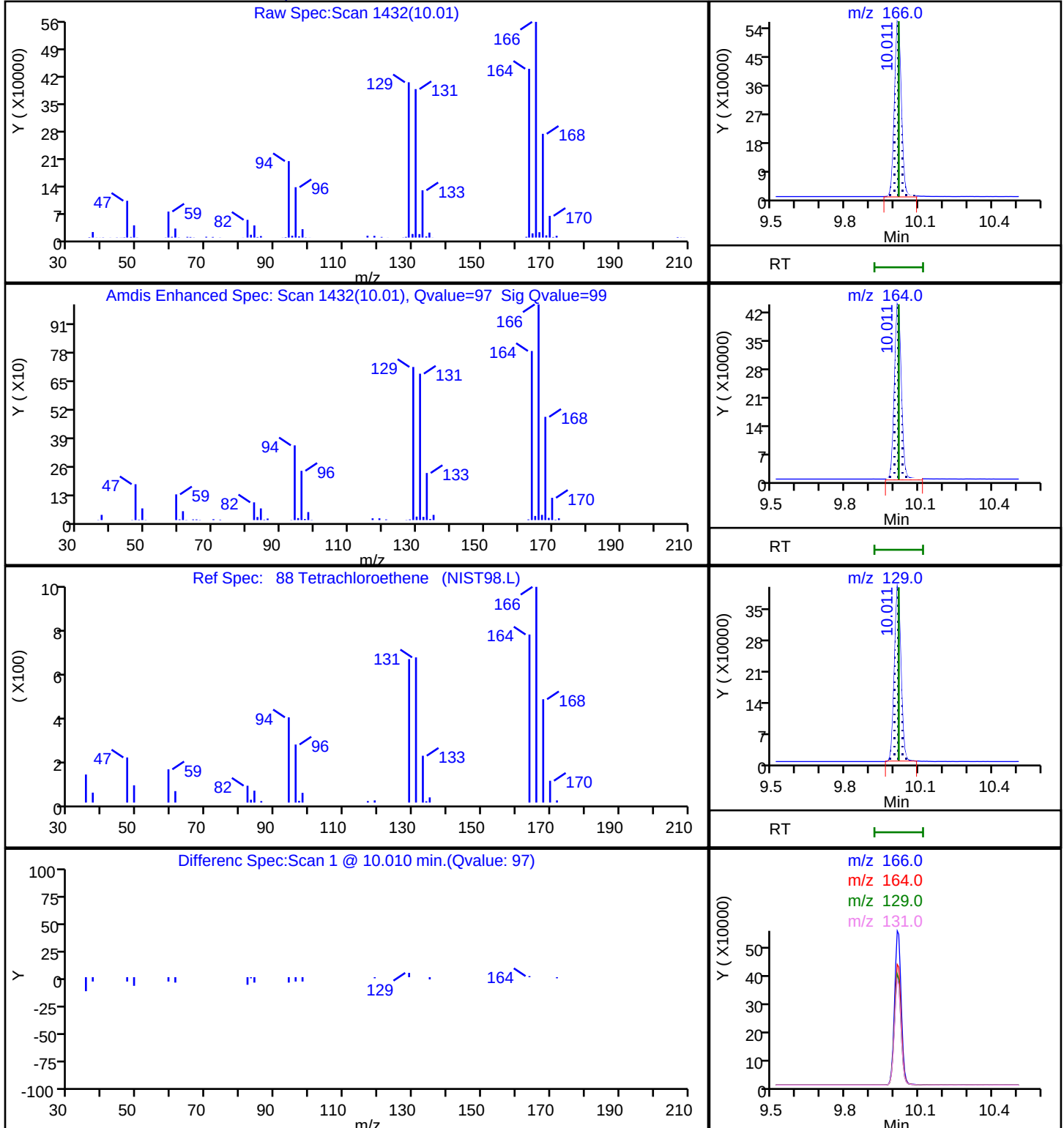
First Level Reviewer: DVW2

Date: 30-Jul-2024 09:44:21

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.1	100.56
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.02
\$ 83 Toluene-d8 (Surr)	10.0	9.67	96.73
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.22	92.24

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X29.D
Injection Date: 30-Jul-2024 05:35:30 Instrument ID: 10193
Lims ID: 410-181527-B-13 DL Lab Sample ID: 410-181527-13
Client ID: HD-QC1-0/1-1
Operator ID: gaw91131 ALS Bottle#: 29 Worklist Smp#: 30
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

88 Tetrachloroethene, CAS: 127-18-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2

Lab Sample ID: 410-181527-14

Matrix: Water

Lab File ID: CL29X07.D

Analysis Method: 8260D

Date Collected: 07/25/2024 00:00

Sample wt/vol: 25 (mL)

Date Analyzed: 07/29/2024 21:24

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2

Lab Sample ID: 410-181527-14

Matrix: Water

Lab File ID: CL29X07.D

Analysis Method: 8260D

Date Collected: 07/25/2024 00:00

Sample wt/vol: 25 (mL)

Date Analyzed: 07/29/2024 21:24

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	ND		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		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\10193\20240729-120642.b\CL29X07.D
 Lims ID: 410-181527-A-14
 Client ID: HD-QC1-0/1-2
 Sample Type: Client
 Inject. Date: 29-Jul-2024 21:24:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-008
 Misc. Info.: 410-181527-A-14
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 01:19:32 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:31:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.988				ND	
6 Vinyl chloride	62		2.091				ND	
9 Bromomethane	94		2.402				ND	
10 Chloroethane	64		2.439				ND	
18 1,1-Dichloroethene	96		3.195				ND	
20 Acetone	43		3.213				ND	7
25 Carbon disulfide	76		3.445				ND	7
30 Methylene Chloride	84		3.774				ND	
* 31 t-Butyl alcohol-d10 (IS)	65	3.786	3.786	0.000	97	159020	50.0	
34 Methyl tert-butyl ether	73		4.128				ND	
35 trans-1,2-Dichloroethene	96		4.140				ND	
37 1,1-Dichloroethane	63		4.792				ND	
42 2-Butanone (MEK)	43		5.609				ND	7
43 cis-1,2-Dichloroethene	96		5.640				ND	
48 Chlorobromomethane	128		5.975				ND	
50 Chloroform	83		6.133				ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.353	6.359	-0.006	94	542680	9.82	
53 1,1,1-Trichloroethane	97		6.359				ND	
56 Carbon tetrachloride	117		6.566				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.810	6.816	-0.006	99	116493	10.3	
60 Benzene	78		6.841				ND	7
61 1,2-Dichloroethane	62		6.920				ND	
* 65 Fluorobenzene (IS)	96	7.255	7.261	-0.006	99	2282955	10.0	
68 Trichloroethene	95		7.749				ND	
70 1,2-Dichloropropane	63		8.090				ND	
76 Dichlorobromomethane	83		8.450				ND	
80 cis-1,3-Dichloropropene	75		9.017				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2305219	10.1	
84 Toluene	92		9.432				ND	7
85 trans-1,3-Dichloropropene	75		9.718				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.938				ND	
88 Tetrachloroethene	166		10.017				ND	7
106 2-Hexanone	43		10.175				ND	7
108 Chlorodibromomethane	129		10.328				ND	
110 Ethylene Dibromide	107		10.437				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.889	10.895	-0.006	84	1784249	10.0	
113 Chlorobenzene	112		10.919				ND	
114 1,1,1,2-Tetrachloroethane	131		11.010				ND	
115 Ethylbenzene	91		11.017				ND	
116 m-Xylene & p-Xylene	106		11.138				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.480				ND	
119 Styrene	104		11.492				ND	
120 Bromoform	173		11.651				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	95	827577	9.63	
126 1,1,2,2-Tetrachloroethane	83		12.047				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.833	12.839	-0.006	93	1005148	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 30-Jul-2024 14:31:34

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X07.D

Injection Date: 29-Jul-2024 21:24:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-A-14

Lab Sample ID: 410-181527-14

Worklist Smp#: 8

Client ID: HD-QC1-0/1-2

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

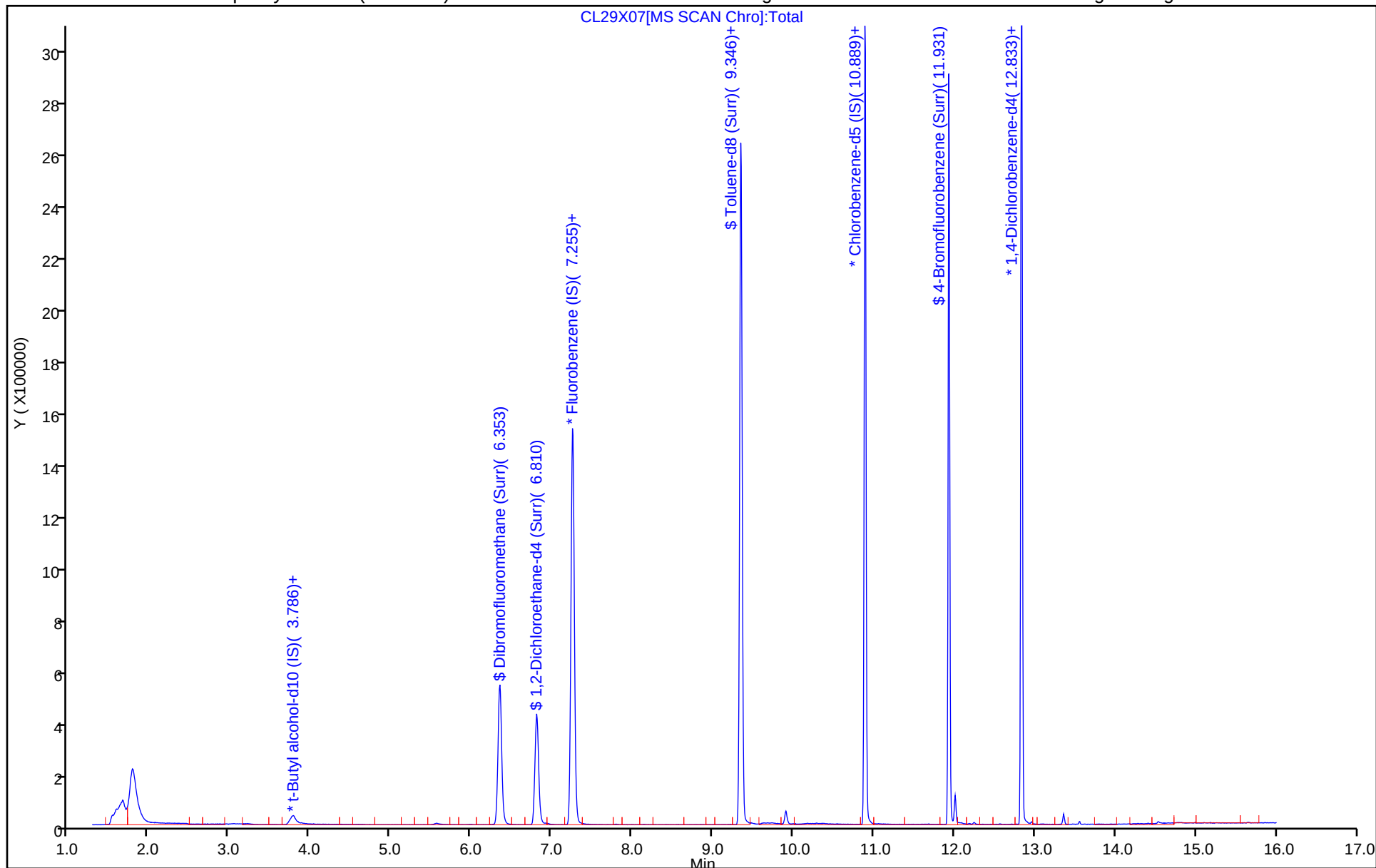
ALS Bottle#: 7

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X07.D
Lims ID: 410-181527-A-14
Client ID: HD-QC1-0/1-2
Sample Type: Client
Inject. Date: 29-Jul-2024 21:24:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-008
Misc. Info.: 410-181527-A-14
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 01:19:32 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:31:34

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.82	98.16
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.99
\$ 83 Toluene-d8 (Surr)	10.0	10.1	100.83
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.63	96.30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 18:42 Calibration End Date: 06/14/2024 20:58 Calibration ID: 62903

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-517601/3	CU14X02.D
Level 2	IC 410-517601/4	CU14X03.D
Level 3	IC 410-517601/5	CU14X04.D
Level 4	IC 410-517601/6	CU14X05.D
Level 5	IC 410-517601/7	CU14X06.D
Level 6	IC 410-517601/8	CU14X07.D
Level 7	IC 410-517601/9	CU14X08.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								
Chlorodifluoromethane	0.3870 0.2991	0.3617 0.2903	0.3160	0.3144	0.2879	Ave		0.322 3				11.7		20.0			
Methoxymethane	++++ 0.3241	0.3895 0.3032	0.3422	0.3235	0.3148	Ave		0.332 9				9.2		20.0			
Acetonitrile	++++ 0.0146	++++ 0.0136	0.0157	0.0149	0.0144	Ave		0.014 6				5.3		20.0			
Vinyl acetate	++++ 0.2669	0.3741 0.2330	0.3146	0.3214	0.3107	Ave		0.303 5				16.0		20.0			
Ethyl acetate	0.2583 0.1705	0.2066 0.1643	0.1625	0.1624	0.1683	Ave		0.184 7				19.5		20.0			
2-Chloroethyl vinyl ether	0.1239 0.1299	0.1248 0.1286	0.1253	0.1234	0.1224	Ave		0.125 5				2.2		20.0			
cis-1,4-Dichloro-2-butene	0.1058 0.1065	0.1034 0.1062	0.1010	0.0996	0.0994	Ave		0.103 1				3.0		20.0			
Cyclohexanone	0.3611 0.3482	0.3676 0.3451	0.3670	0.3618	0.3548	Ave		0.357 9				2.5		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.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 18:42 Calibration End Date: 06/14/2024 20:58 Calibration ID: 62903

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-517601/3	CU14X02.D
Level 2	IC 410-517601/4	CU14X03.D
Level 3	IC 410-517601/5	CU14X04.D
Level 4	IC 410-517601/6	CU14X05.D
Level 5	IC 410-517601/7	CU14X06.D
Level 6	IC 410-517601/8	CU14X07.D
Level 7	IC 410-517601/9	CU14X08.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
Chlorodifluoromethane	FB	Ave	17130 663098	40587 1644844	70444	143100	330865	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methoxymethane	FB	Ave	++++ 718466	43707 1717783	76304	147232	361794	++++ 10.0	0.500 25.0	1.00	2.00	5.00
Acetonitrile	FB	Ave	++++ 161395	++++ 383998	17515	33865	82922	++++ 50.0	++++ 125	5.00	10.0	25.0
Vinyl acetate	FB	Ave	++++ 591536	41977 1320162	70139	146275	357166	++++ 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl acetate	FB	Ave	11434 378013	23181 931100	36231	73898	193452	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloroethyl vinyl ether	FB	Ave	5485 287969	13998 728916	27938	56170	140731	0.200 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,4-Dichloro-2-butene	CBZd5	Ave	7488 376311	18487 949343	35805	71985	179956	0.400 20.0	1.00 50.0	2.00	4.00	10.0
Cyclohexanone	TBA d1 0	Ave	12611 588934	32865 1480018	66166	128606	339356	10.00 500	25.0 1250	50.0	100.0	250

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.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 18:42 Calibration End Date: 06/14/2024 20:58 Calibration ID: 62903

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-517601/3	CU14X02.D
Level 2	IC 410-517601/4	CU14X03.D
Level 3	IC 410-517601/5	CU14X04.D
Level 4	IC 410-517601/6	CU14X05.D
Level 5	IC 410-517601/7	CU14X06.D
Level 6	IC 410-517601/8	CU14X07.D
Level 7	IC 410-517601/9	CU14X08.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
Chlorodifluoromethane	20.1 -9.9	12.2	-2.0	-2.5	-10.7	-7.2	50 30	30	30	30	30	30
Methoxymethane	++++ -8.9	17.0	2.8	-2.8	-5.4	-2.6	30	50	30	30	30	30
Acetonitrile	++++ -7.3	++++	7.4	1.7	-1.4	-0.4	30		50	30	30	30
Vinyl acetate	++++ -23.2	23.3	3.7	5.9	2.4	-12.1	30	50	30	30	30	30
Ethyl acetate	39.8 -11.0	11.8	-12.0	-12.1	-8.9	-7.7	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-1.3 2.5	-0.6	-0.1	-1.6	-2.4	3.5	50 30	30	30	30	30	30
cis-1,4-Dichloro-2-butene	2.6 3.0	0.2	-2.1	-3.4	-3.6	3.3	50 30	30	30	30	30	30
Cyclohexanone	0.9 -3.6	2.7	2.5	1.1	-0.9	-2.7	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X02.D
 Lims ID: IC STD.2 Sm
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 14-Jun-2024 18:42:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0116724-003
 Misc. Info.: IC STD 0.2 SM
 Operator ID: MEC29284 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub26
 Method: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 17-Jun-2024 19:28:24 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1606

First Level Reviewer: UCB5

Date: 16-Jun-2024 13:08:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.768	1.762	0.006	41	5926	0.2000	0.2058	
3 Chlorodifluoromethane	51	1.811	1.811	0.000	97	17130	0.2000	0.2401	
4 Dimethyl ether	45	1.866	1.860	0.006	100	27389	0.2000	0.3717	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.159	2.153	0.006	34	14896	0.2000	0.2107	M
27 Acetonitrile	41	3.579	3.561	0.018	21	10507	1.00	3.25	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.805	3.798	0.007	97	174644	50.0	50.0	
38 Vinyl acetate	43	4.792	4.780	0.012	97	24223	0.2000	0.3607	
46 Ethyl acetate	43	5.694	5.682	0.012	98	11434	0.2000	0.2797	
63 Isopropyl acetate	43	6.956	6.956	0.000	97	25231	0.2000	0.2790	
* 65 Fluorobenzene (IS)	96	7.273	7.267	0.006	99	2213224	10.0	10.0	
75 n-Propyl acetate	61	8.285	8.292	-0.007	98	5449	0.2000	0.2653	
79 2-Chloroethyl vinyl ether	63	8.846	8.840	0.006	93	5485	0.2000	0.1975	
109 n-Butyl acetate	43	10.315	10.316	-0.001	98	23008	0.2000	0.2729	
* 111 Chlorobenzene-d5 (IS)	117	10.901	10.901	0.000	83	1768346	10.0	10.0	M
122 cis-1,4-Dichloro-2-butene	88	11.852	11.852	0.000	96	7488	0.4001	0.4106	
123 Cyclohexanone	55	11.876	11.876	0.000	91	12611	10.0	10.1	
* 139 1,4-Dichlorobenzene-d4	152	12.845	12.845	0.000	93	1000850	10.0	10.0	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00037	Amount Added: 0.20	Units: uL
MSV_V_SMRV4_00071	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00008	Amount Added: 1.60	Units: uL
MSV_HP25_ISO_00010	Amount Added: 1.00	Units: uL
MSV_DME_00055	Amount Added: 0.20	Units: uL

Report Date: 17-Jun-2024 19:28:24

Chrom Revision: 2.3 03-Jun-2024 20:58:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X02.D

Injection Date: 14-Jun-2024 18:42:30

Instrument ID: 10193

Operator ID: MEC29284

Lims ID: IC STD.2 Sm

Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

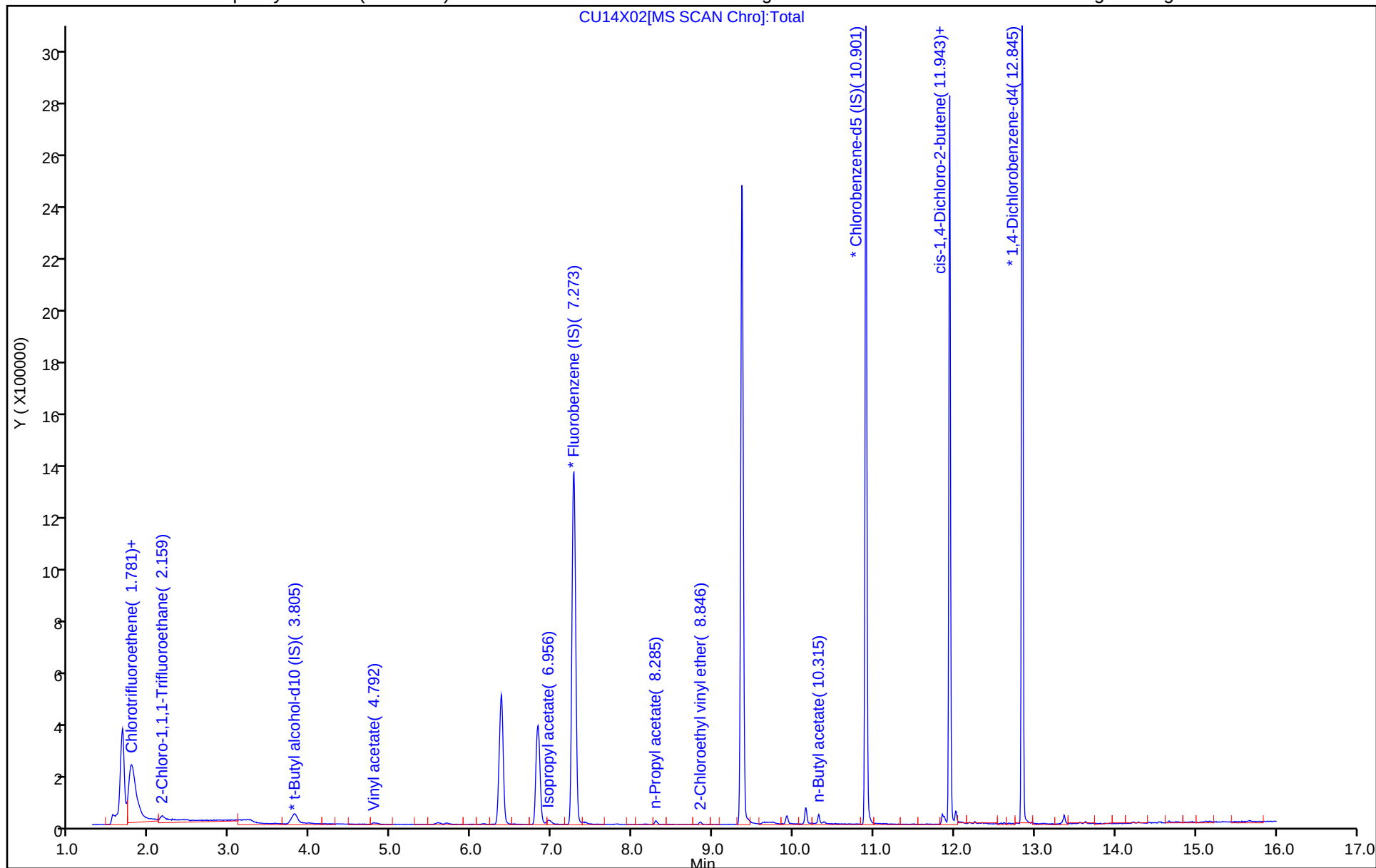
ALS Bottle#: 2

Method: MSV_10193_25mL

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

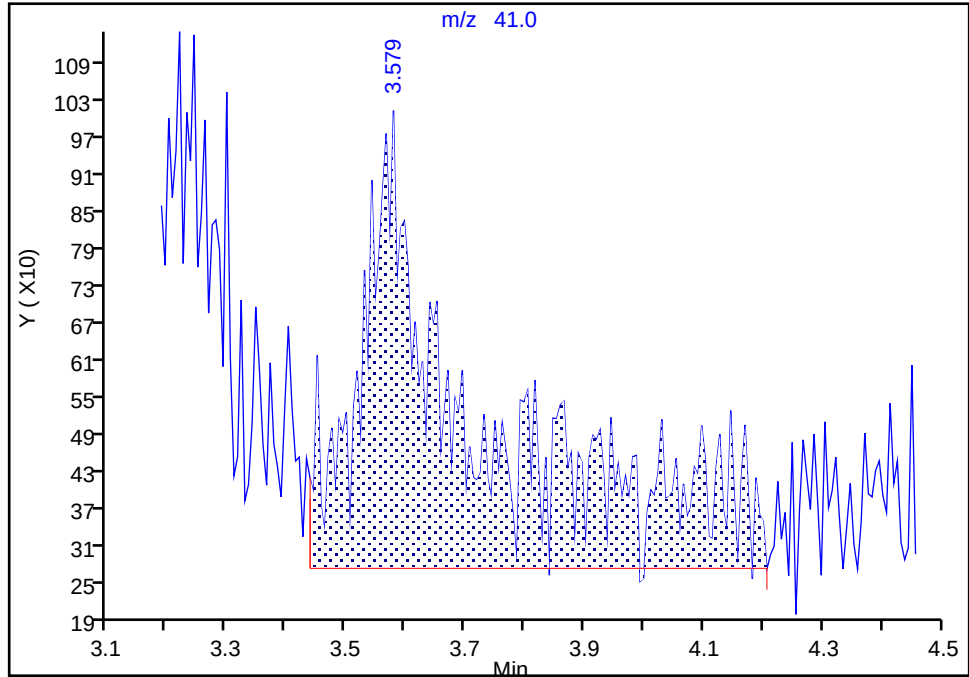
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X02.D
Injection Date: 14-Jun-2024 18:42:30 Instrument ID: 10193
Lims ID: IC STD.2 Sm
Client ID:
Operator ID: MEC29284 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

27 Acetonitrile, CAS: 75-05-8

Signal: 1

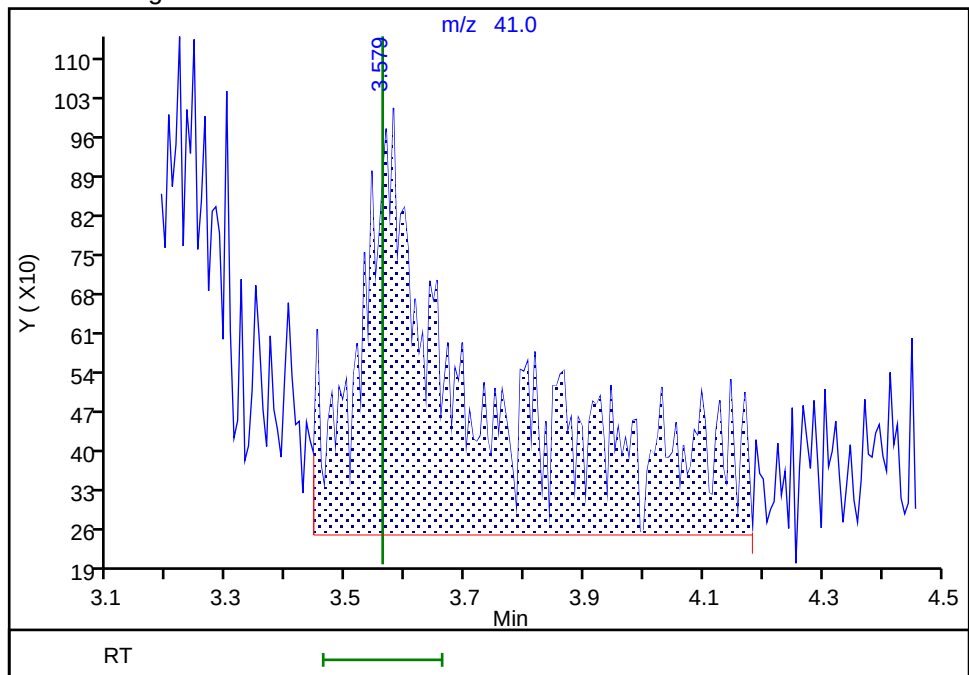
RT: 3.58
Area: 9693
Amount: 1.509747
Amount Units: ug/l

Processing Integration Results



RT: 3.58
Area: 10507
Amount: 3.245418
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 17-Jun-2024 19:11:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

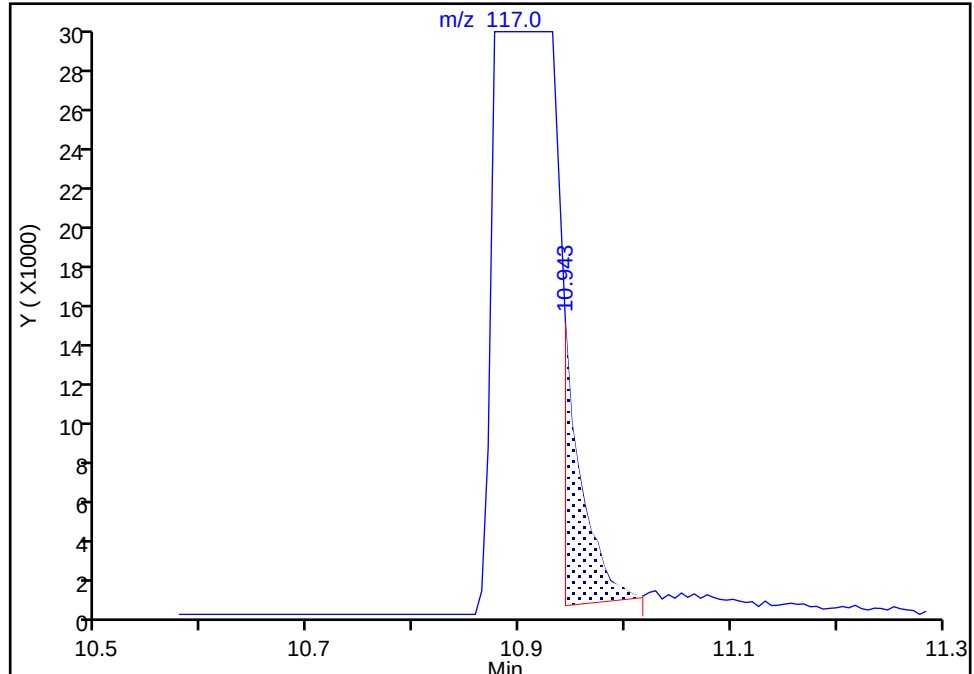
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X02.D
Injection Date: 14-Jun-2024 18:42:30 Instrument ID: 10193
Lims ID: IC STD.2 Sm
Client ID:
Operator ID: MEC29284 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 111 Chlorobenzene-d5 (IS), CAS: 3114-55-4

Signal: 1

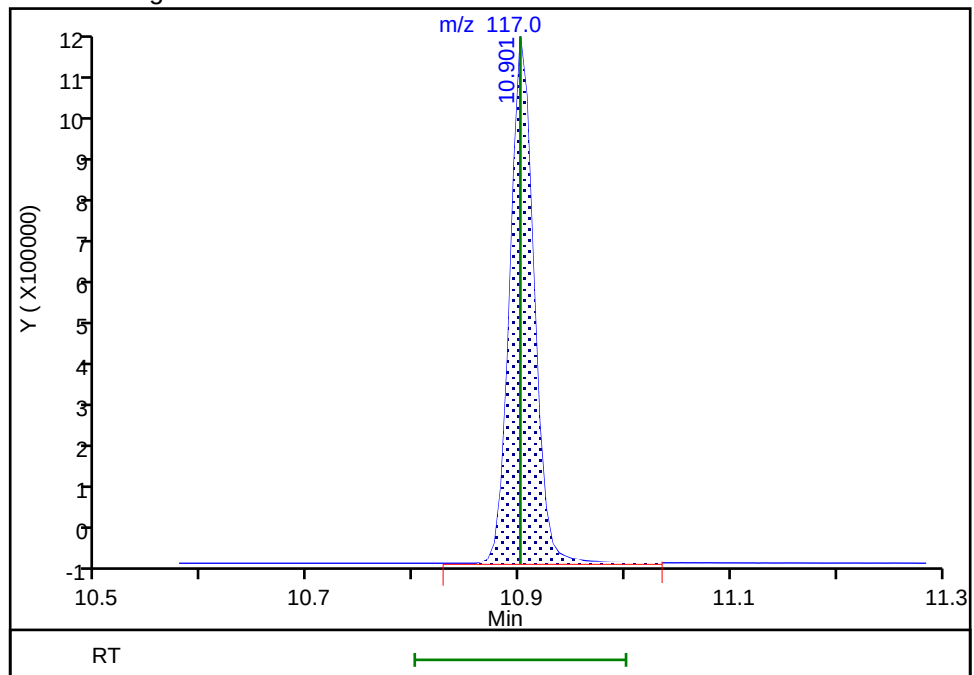
RT: 10.94
Area: 17287
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 10.90
Area: 1768346
Amount: 10.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:07:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

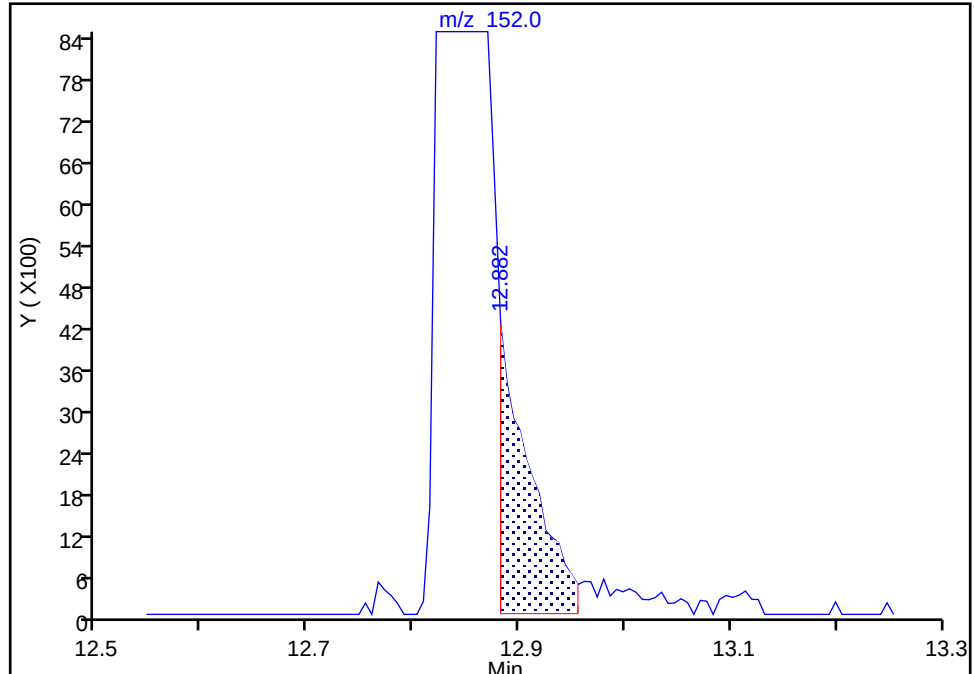
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X02.D
Injection Date: 14-Jun-2024 18:42:30 Instrument ID: 10193
Lims ID: IC STD.2 Sm
Client ID:
Operator ID: MEC29284 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 139 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

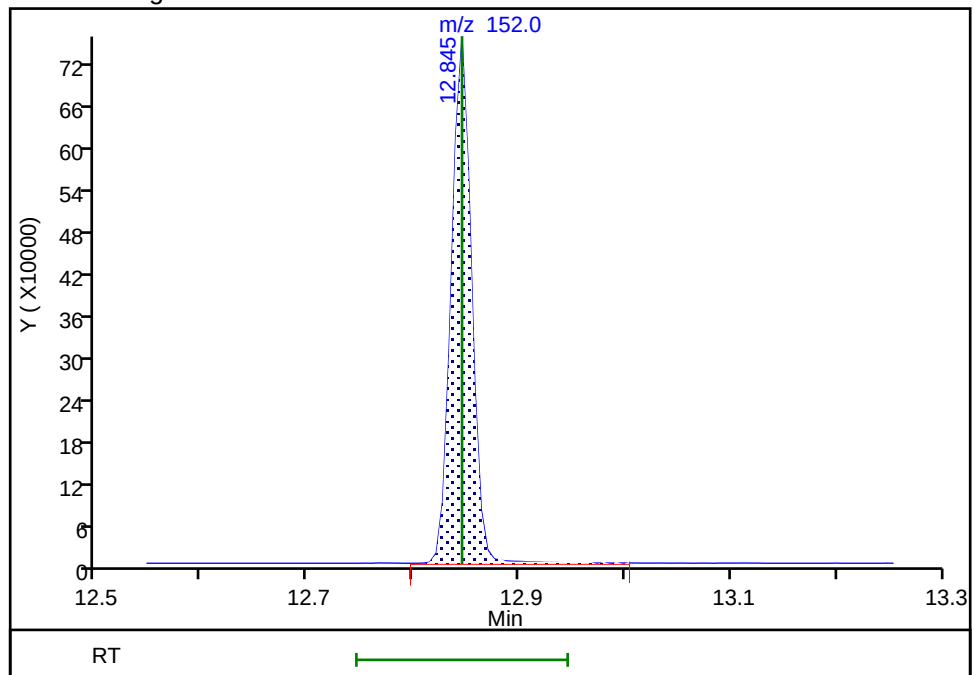
RT: 12.88
Area: 8839
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 12.85
Area: 1000850
Amount: 10.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:08:12 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X03.D
 Lims ID: IC STD.5 Sm
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 14-Jun-2024 19:05:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0116724-004
 Misc. Info.: IC STD.5 SM
 Operator ID: MEC29284 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub26
 Method: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 17-Jun-2024 19:28:25 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1606

First Level Reviewer: UCB5

Date: 16-Jun-2024 13:10:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.756	1.762	-0.006	89	14541	0.5000	0.4980	
3 Chlorodifluoromethane	51	1.811	1.811	0.000	97	40587	0.5000	0.5611	
4 Dimethyl ether	45	1.866	1.860	0.006	100	43707	0.5000	0.5851	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.153	2.153	-0.001	33	37317	0.5000	0.5207	
27 Acetonitrile	41	3.573	3.561	0.012	24	12967	2.50	3.95	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.805	3.798	0.007	96	178836	50.0	50.0	
38 Vinyl acetate	43	4.786	4.780	0.006	97	41977	0.5000	0.6164	
46 Ethyl acetate	43	5.701	5.682	0.019	99	23181	0.5000	0.5592	
63 Isopropyl acetate	43	6.956	6.956	0.000	97	47780	0.5000	0.5210	
* 65 Fluorobenzene (IS)	96	7.267	7.267	0.000	99	2244091	10.0	10.0	
75 n-Propyl acetate	61	8.292	8.292	0.000	97	11240	0.5000	0.5398	
79 2-Chloroethyl vinyl ether	63	8.840	8.840	0.000	92	13998	0.5000	0.4971	
109 n-Butyl acetate	43	10.316	10.316	0.000	98	43880	0.5000	0.5148	
* 111 Chlorobenzene-d5 (IS)	117	10.901	10.901	0.000	83	1787741	10.0	10.0	M
122 cis-1,4-Dichloro-2-butene	88	11.852	11.852	0.000	96	18487	1.00	1.00	
123 Cyclohexanone	55	11.876	11.876	0.000	91	32865	25.0	25.7	
* 139 1,4-Dichlorobenzene-d4	152	12.846	12.845	0.001	93	1016773	10.0	10.0	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00037	Amount Added: 0.50	Units: uL
MSV_CCV_CYC_00008	Amount Added: 4.00	Units: uL
MSV_V_SMRV4_00071	Amount Added: 2.50	Units: uL
MSV_HP25_ISO_00010	Amount Added: 1.00	Units: uL
MSV_DME_00055	Amount Added: 0.50	Units: uL

Report Date: 17-Jun-2024 19:28:26

Chrom Revision: 2.3 03-Jun-2024 20:58:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X03.D

Injection Date: 14-Jun-2024 19:05:30

Instrument ID: 10193

Operator ID: MEC29284

Lims ID: IC STD.5 Sm

Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

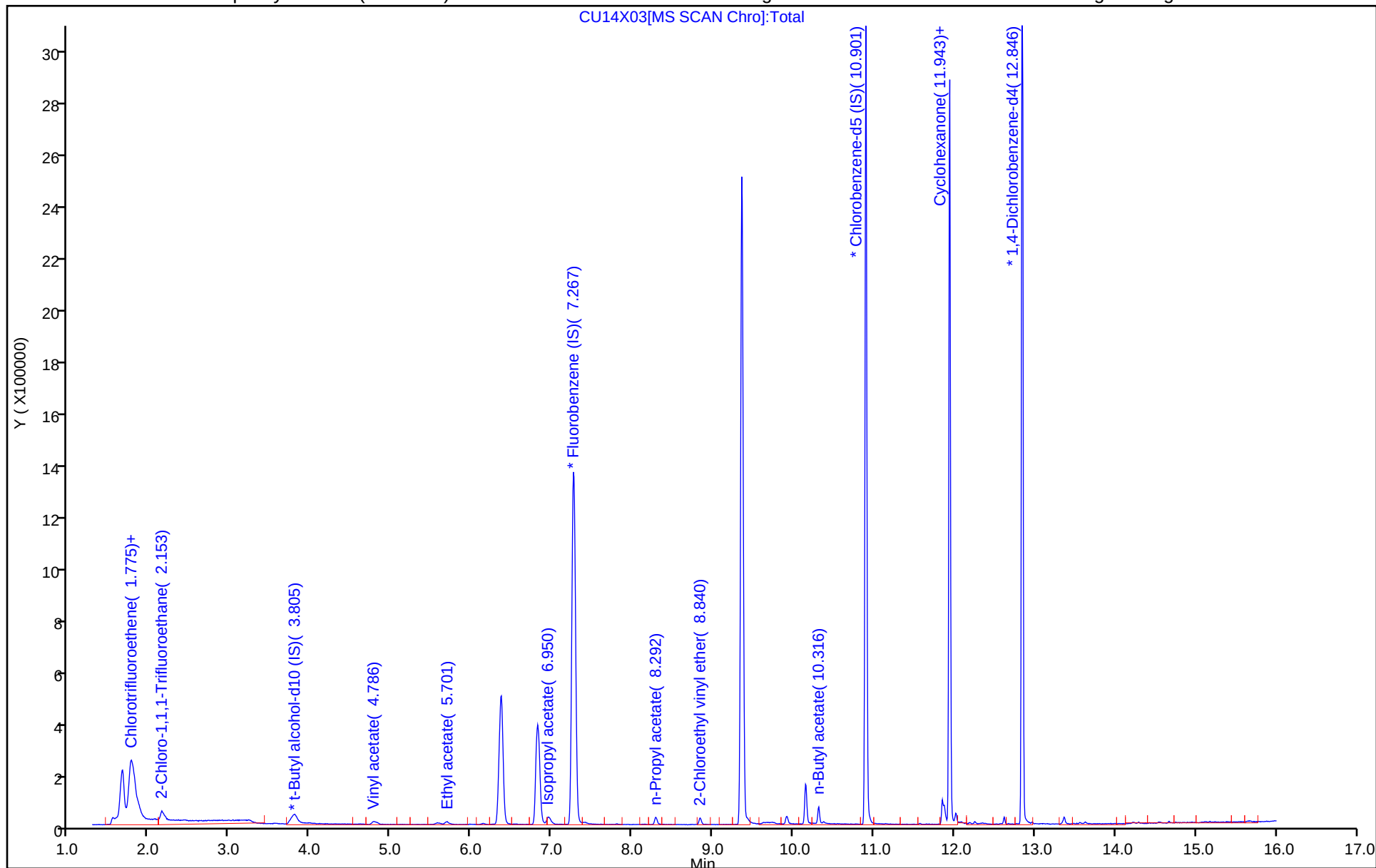
ALS Bottle#: 3

Method: MSV_10193_25mL

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

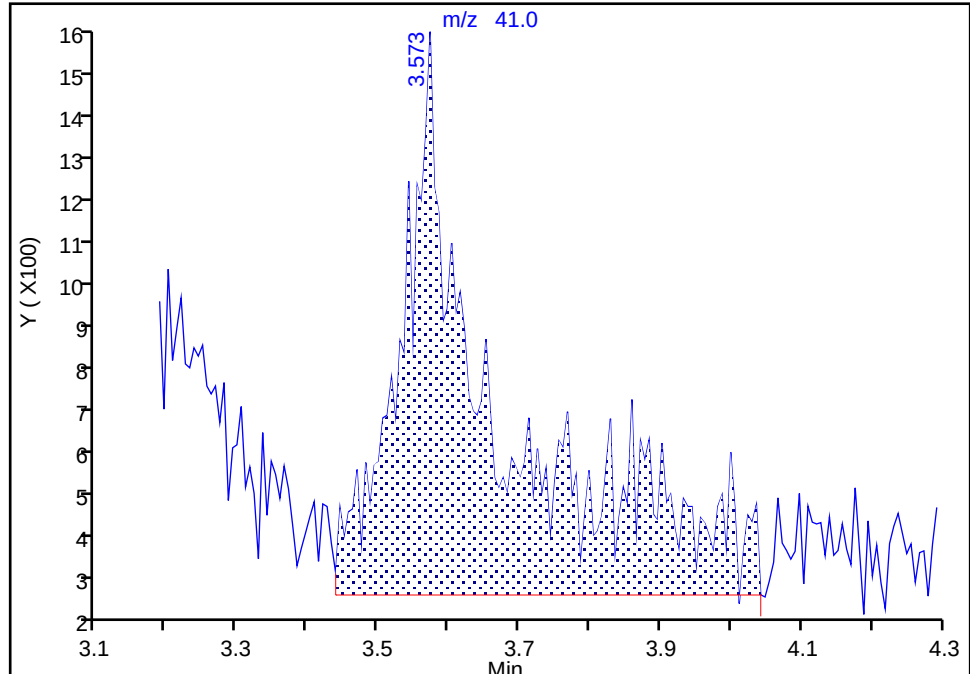
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X03.D
Injection Date: 14-Jun-2024 19:05:30 Instrument ID: 10193
Lims ID: IC STD.5 Sm
Client ID:
Operator ID: MEC29284 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

27 Acetonitrile, CAS: 75-05-8

Signal: 1

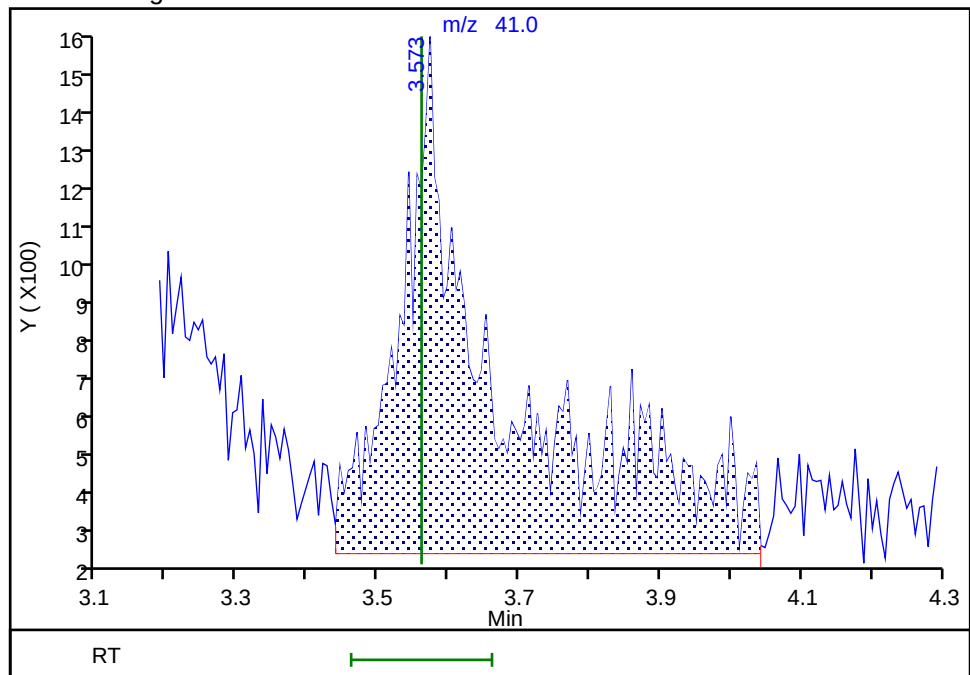
RT: 3.57
Area: 12199
Amount: 3.437501
Amount Units: ug/l

Processing Integration Results



RT: 3.57
Area: 12967
Amount: 3.950175
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 17-Jun-2024 19:10:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

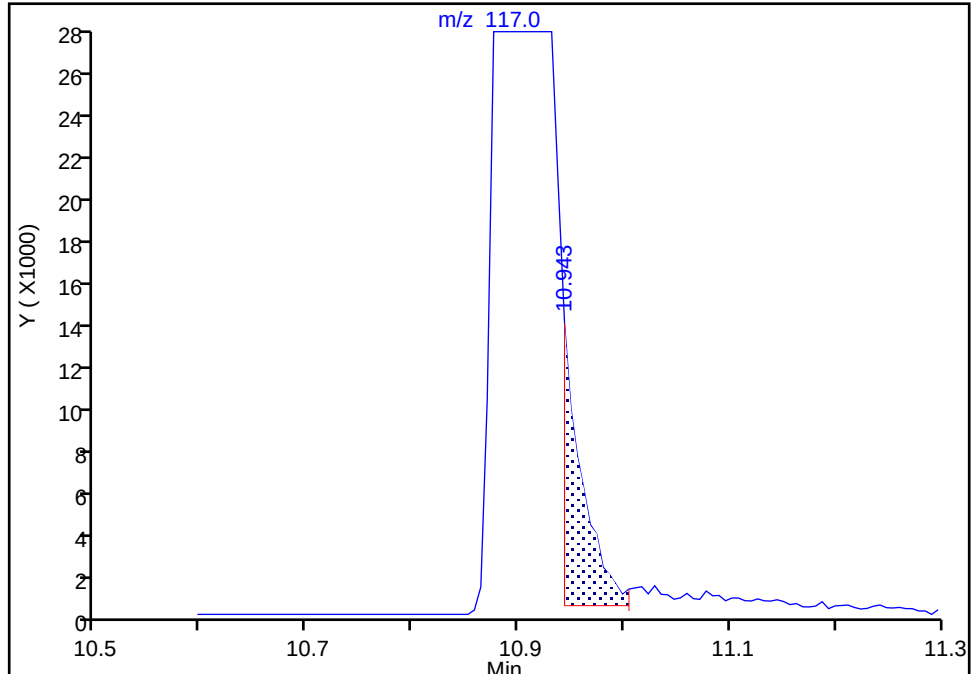
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X03.D
Injection Date: 14-Jun-2024 19:05:30 Instrument ID: 10193
Lims ID: IC STD.5 Sm
Client ID:
Operator ID: MEC29284 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

*** 111 Chlorobenzene-d5 (IS), CAS: 3114-55-4**

Signal: 1

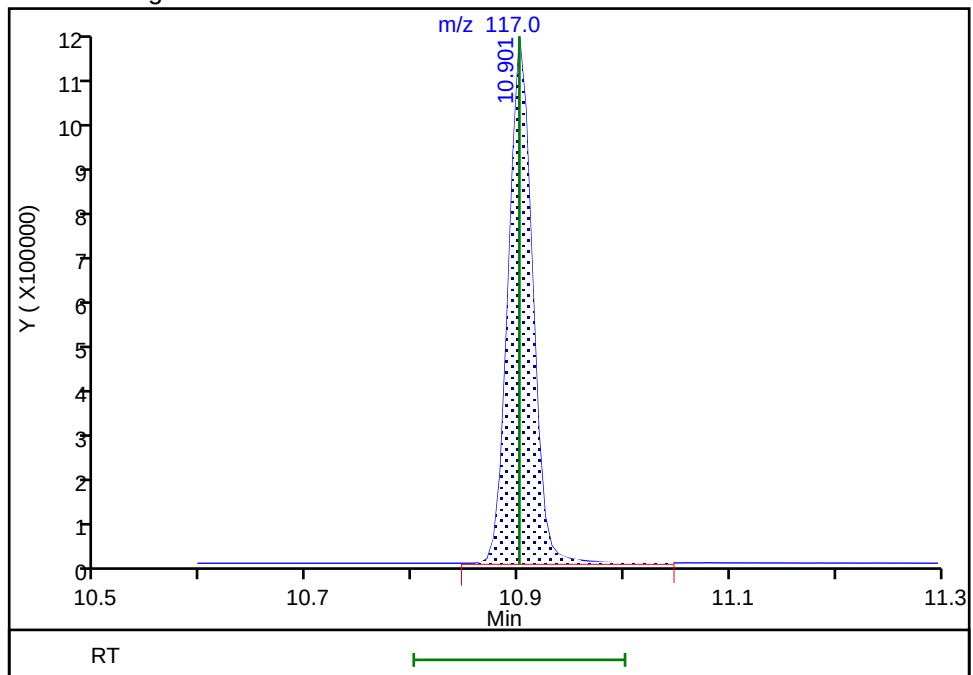
RT: 10.94
Area: 17379
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 10.90
Area: 1787741
Amount: 10.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:09:33 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

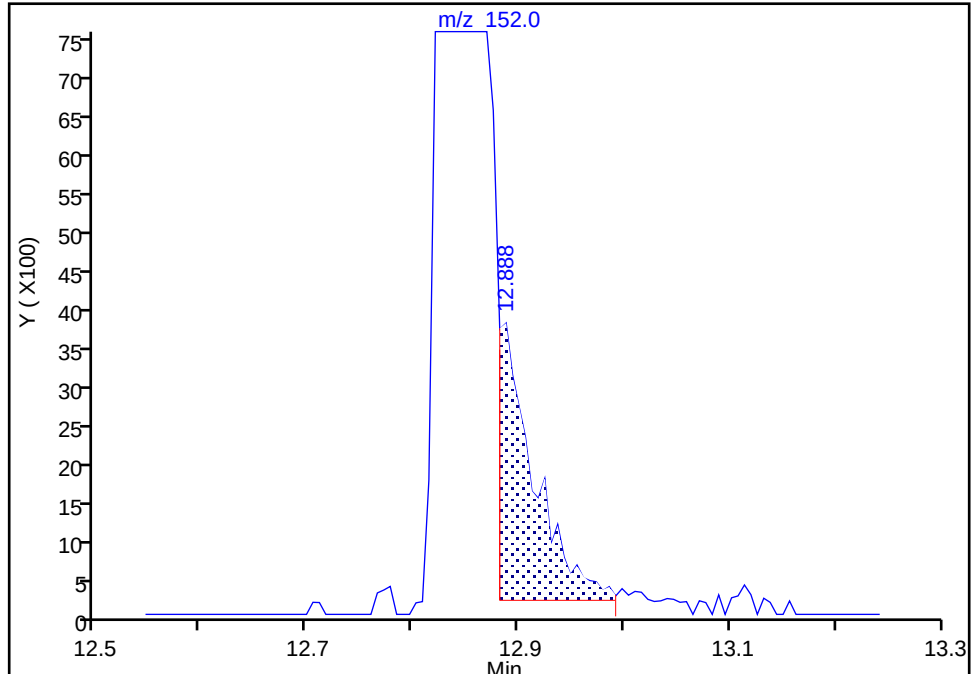
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X03.D
Injection Date: 14-Jun-2024 19:05:30 Instrument ID: 10193
Lims ID: IC STD.5 Sm
Client ID:
Operator ID: MEC29284 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 139 1,4-Dichlorobenzene-d4, CAS: 3855-82-1
Signal: 1

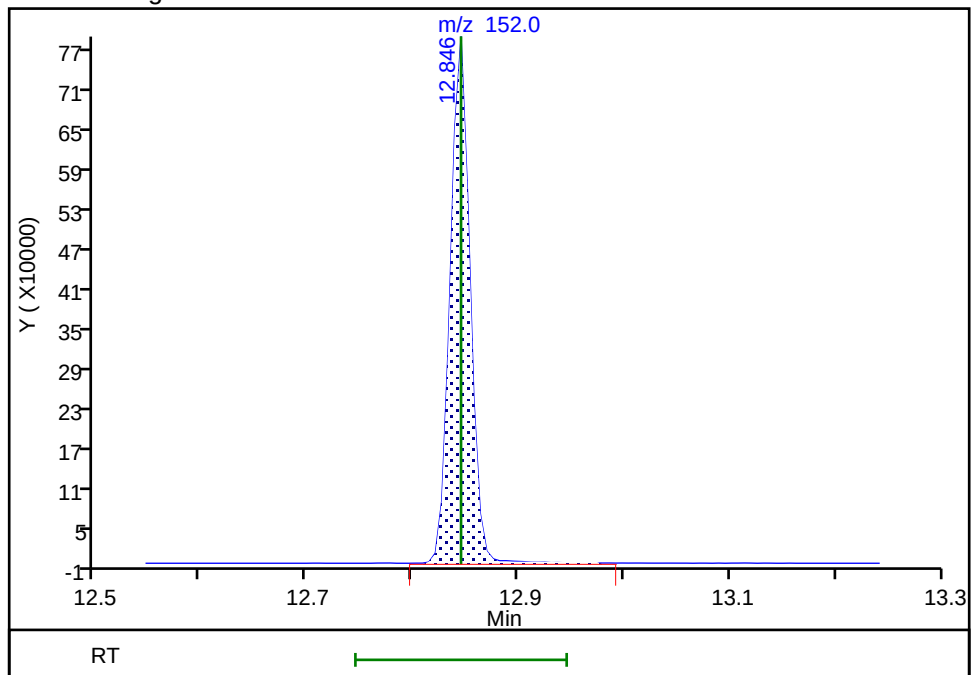
RT: 12.89
Area: 8628
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 12.85
Area: 1016773
Amount: 10.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:09:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X04.D
 Lims ID: IC STD1 Sm
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 14-Jun-2024 19:27:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0116724-005
 Misc. Info.: IC STD1 SM
 Operator ID: MEC29284 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub26
 Method: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 17-Jun-2024 19:28:27 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1606

First Level Reviewer: UCB5

Date: 16-Jun-2024 13:11:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.756	1.762	-0.006	93	29800	1.00	1.03	
3 Chlorodifluoromethane	51	1.811	1.811	0.000	97	70444	1.00	0.9802	
4 Dimethyl ether	45	1.866	1.860	0.006	99	76304	1.00	1.03	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.146	2.153	-0.007	33	72193	1.00	1.01	
27 Acetonitrile	41	3.579	3.561	0.018	98	17515	5.00	5.37	
* 31 t-Butyl alcohol-d10 (IS)	65	3.805	3.798	0.007	96	180270	50.0	50.0	
38 Vinyl acetate	43	4.786	4.780	0.006	97	70139	1.00	1.04	
46 Ethyl acetate	43	5.688	5.682	0.006	98	36231	1.00	0.8798	
63 Isopropyl acetate	43	6.956	6.956	0.000	98	86891	1.00	0.9537	
* 65 Fluorobenzene (IS)	96	7.267	7.267	0.000	99	2229529	10.0	10.0	
75 n-Propyl acetate	61	8.292	8.292	0.000	98	19304	1.00	0.9331	
79 2-Chloroethyl vinyl ether	63	8.840	8.840	0.000	92	27938	1.00	1.00	
109 n-Butyl acetate	43	10.316	10.316	0.000	98	80135	1.00	0.9485	
* 111 Chlorobenzene-d5 (IS)	117	10.901	10.901	0.000	84	1772095	10.0	10.0	M
122 cis-1,4-Dichloro-2-butene	88	11.852	11.852	0.000	97	35805	2.00	1.96	
123 Cyclohexanone	55	11.876	11.876	0.000	90	66166	50.0	51.3	
* 139 1,4-Dichlorobenzene-d4	152	12.846	12.845	0.001	93	1019925	10.0	10.0	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00037	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00008	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00071	Amount Added: 5.00	Units: uL
MSV_HP25_ISO_00010	Amount Added: 1.00	Units: uL
MSV_DME_00055	Amount Added: 1.00	Units: uL

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X04.D

Injection Date: 14-Jun-2024 19:27:30

Instrument ID: 10193

Operator ID: MEC29284

Lims ID: IC STD1 Sm

Worklist Smp#: 5

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

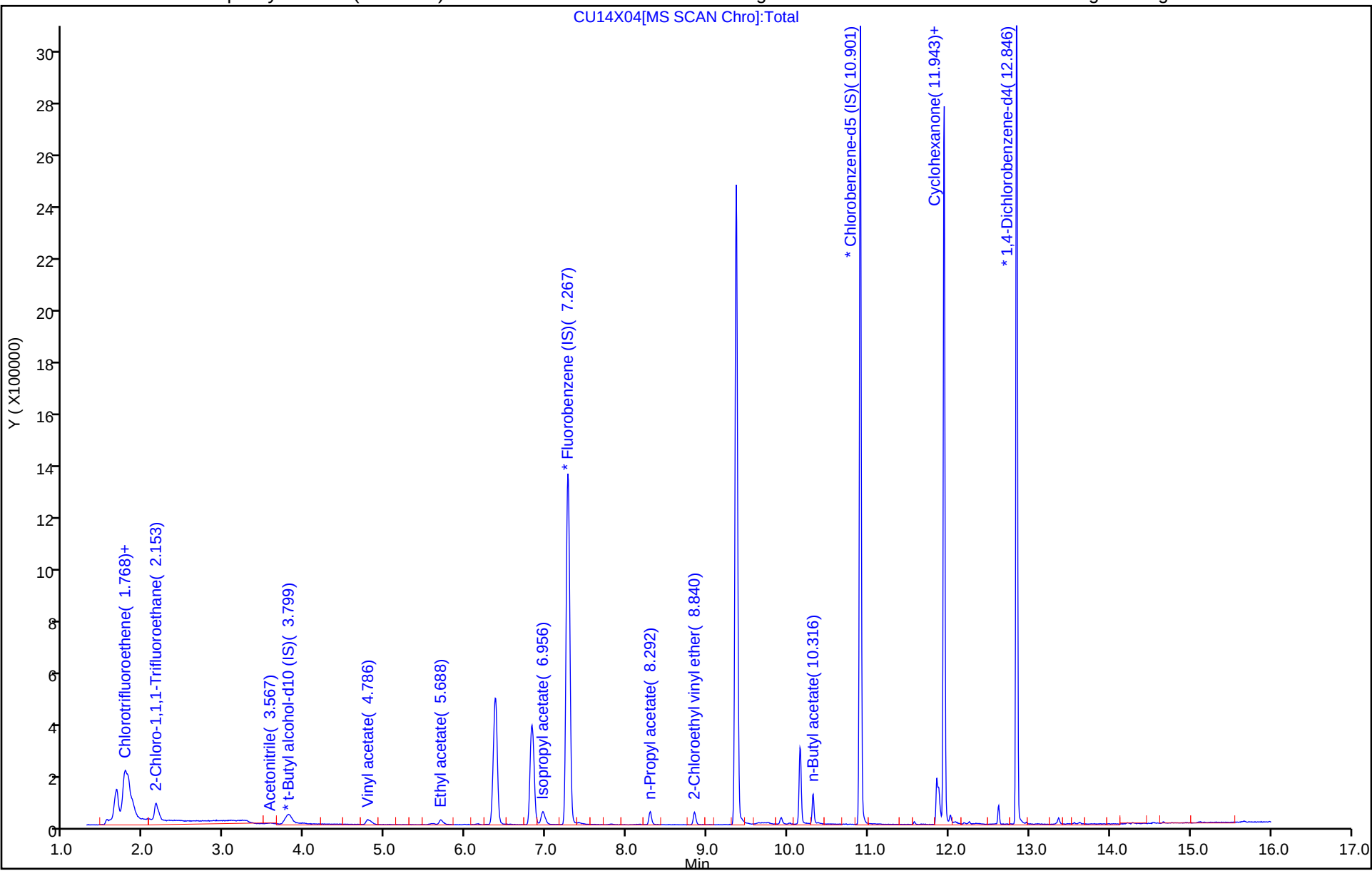
ALS Bottle#: 4

Method: MSV_10193_25mL

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

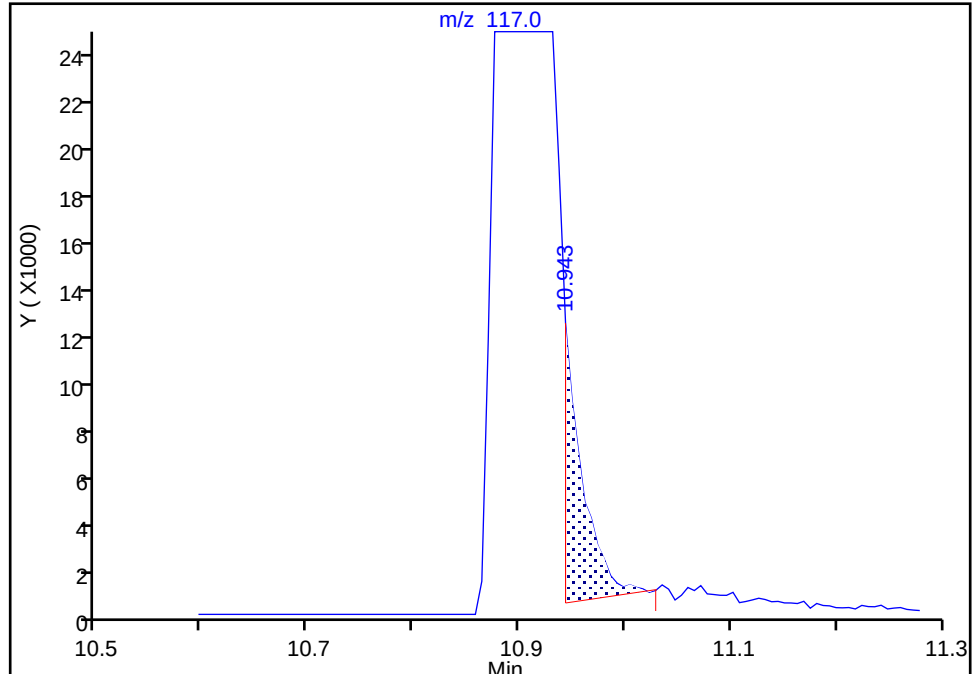
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X04.D
Injection Date: 14-Jun-2024 19:27:30 Instrument ID: 10193
Lims ID: IC STD1 Sm
Client ID:
Operator ID: MEC29284 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 111 Chlorobenzene-d5 (IS), CAS: 3114-55-4

Signal: 1

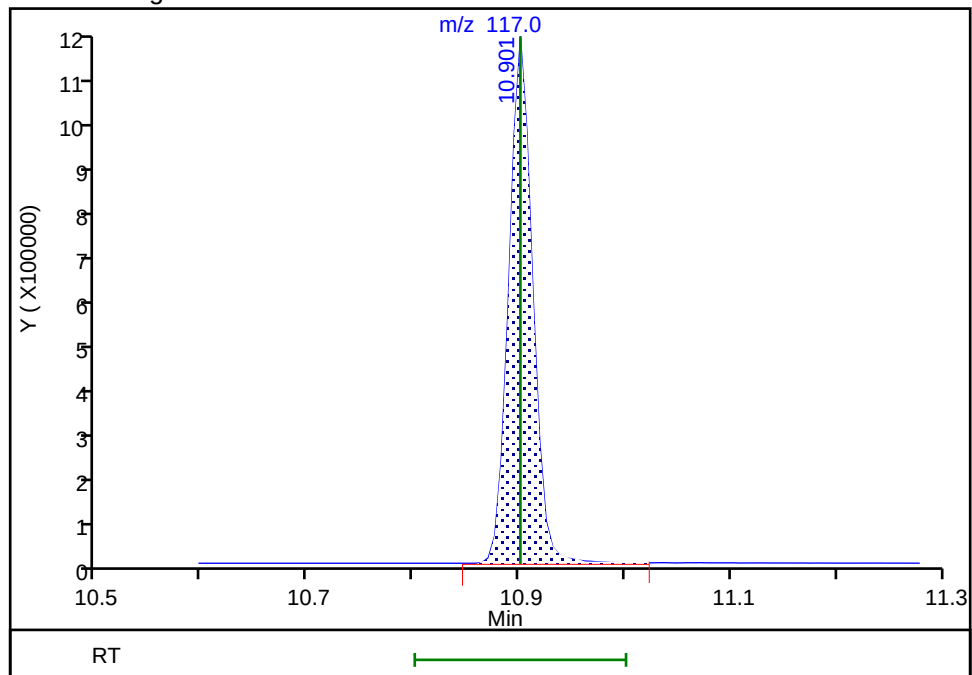
RT: 10.94
Area: 15019
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 10.90
Area: 1772095
Amount: 10.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:10:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

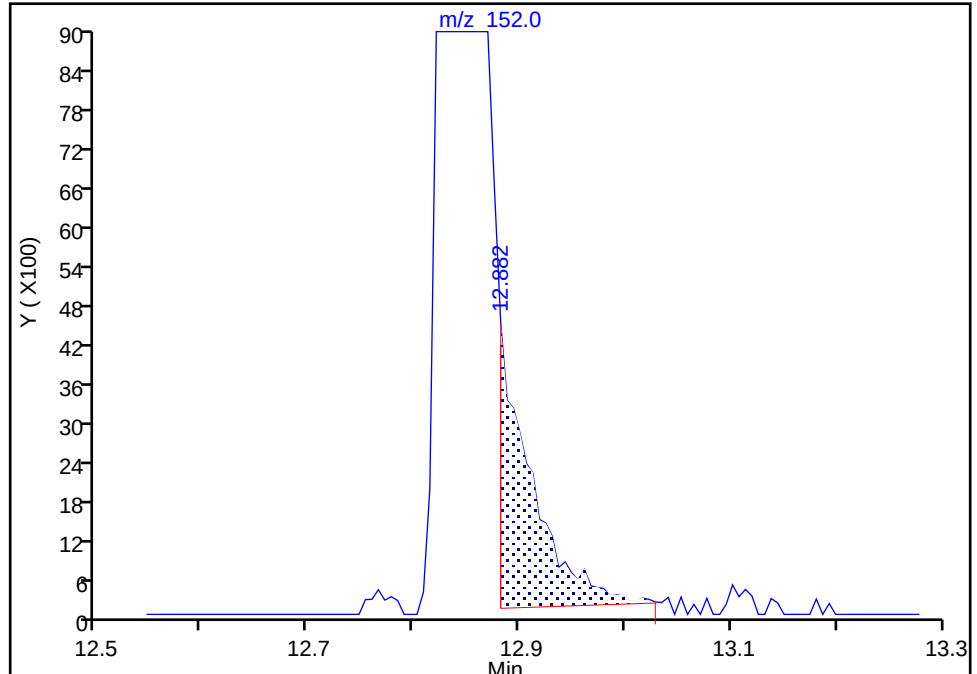
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X04.D
Injection Date: 14-Jun-2024 19:27:30 Instrument ID: 10193
Lims ID: IC STD1 Sm
Client ID:
Operator ID: MEC29284 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 139 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

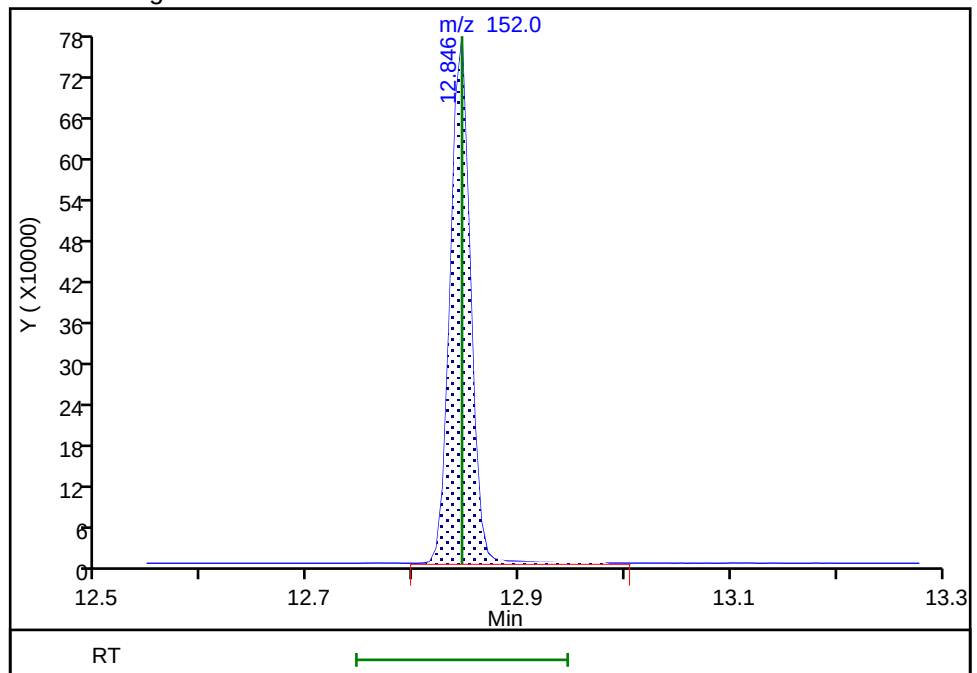
RT: 12.88
Area: 9247
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 12.85
Area: 1019925
Amount: 10.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:11:08 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X05.D
 Lims ID: IC STD2 Sm
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 14-Jun-2024 19:50:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0116724-006
 Misc. Info.: IC STD2 SM
 Operator ID: MEC29284 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub26
 Method: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 17-Jun-2024 19:28:29 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1606

First Level Reviewer: UCB5

Date: 16-Jun-2024 13:12:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.768	1.762	0.006	93	58207	2.00	1.97	
3 Chlorodifluoromethane	51	1.817	1.811	0.006	97	143100	2.00	1.95	
4 Dimethyl ether	45	1.866	1.860	0.006	100	147232	2.00	1.94	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.159	2.153	0.006	33	144886	2.00	1.99	
27 Acetonitrile	41	3.573	3.561	0.012	99	33865	10.0	10.2	
* 31 t-Butyl alcohol-d10 (IS)	65	3.805	3.798	0.007	96	177755	50.0	50.0	
38 Vinyl acetate	43	4.792	4.780	0.012	97	146275	2.00	2.12	
46 Ethyl acetate	43	5.695	5.682	0.013	98	73898	2.00	1.76	
63 Isopropyl acetate	43	6.956	6.956	0.000	98	162065	2.00	1.74	
* 65 Fluorobenzene (IS)	96	7.267	7.267	0.000	99	2275521	10.0	10.0	
75 n-Propyl acetate	61	8.292	8.292	0.000	98	37522	2.00	1.78	
79 2-Chloroethyl vinyl ether	63	8.840	8.840	0.000	92	56170	2.00	1.97	
109 n-Butyl acetate	43	10.316	10.316	0.000	98	153418	2.00	1.78	
* 111 Chlorobenzene-d5 (IS)	117	10.901	10.901	0.000	83	1805744	10.0	10.0	M
122 cis-1,4-Dichloro-2-butene	88	11.852	11.852	0.000	96	71985	4.00	3.87	
123 Cyclohexanone	55	11.876	11.876	0.000	91	128606	100.0	101.1	
* 139 1,4-Dichlorobenzene-d4	152	12.846	12.845	0.001	93	1039899	10.0	10.0	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00037	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00008	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00071	Amount Added: 5.00	Units: uL
MSV_HP25_ISO_00010	Amount Added: 1.00	Units: uL
MSV_DME_00055	Amount Added: 1.00	Units: uL

Report Date: 17-Jun-2024 19:28:30

Chrom Revision: 2.3 03-Jun-2024 20:58:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X05.D

Injection Date: 14-Jun-2024 19:50:30

Instrument ID: 10193

Operator ID: MEC29284

Lims ID: IC STD2 Sm

Worklist Smp#: 6

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

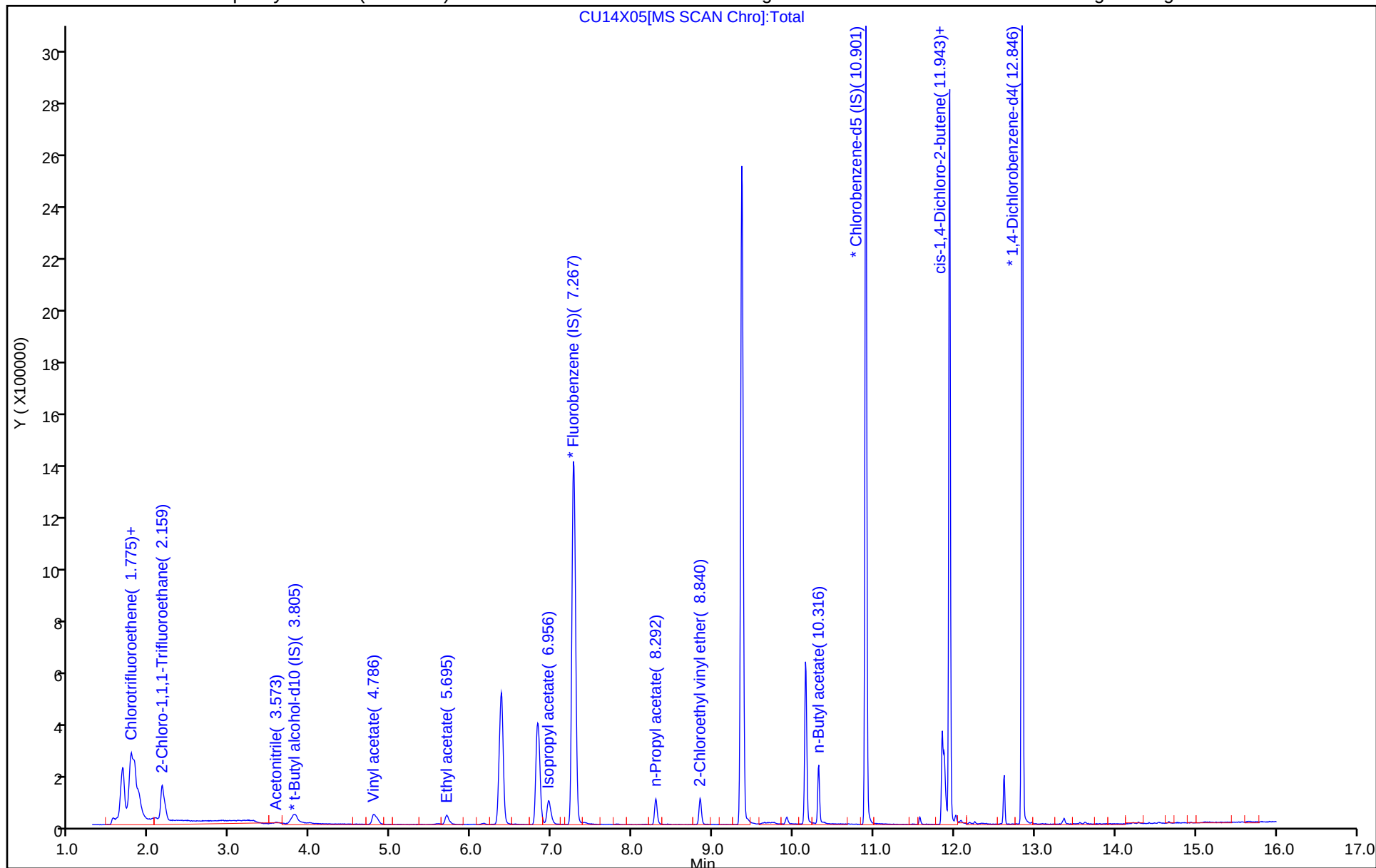
ALS Bottle#: 5

Method: MSV_10193_25mL

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

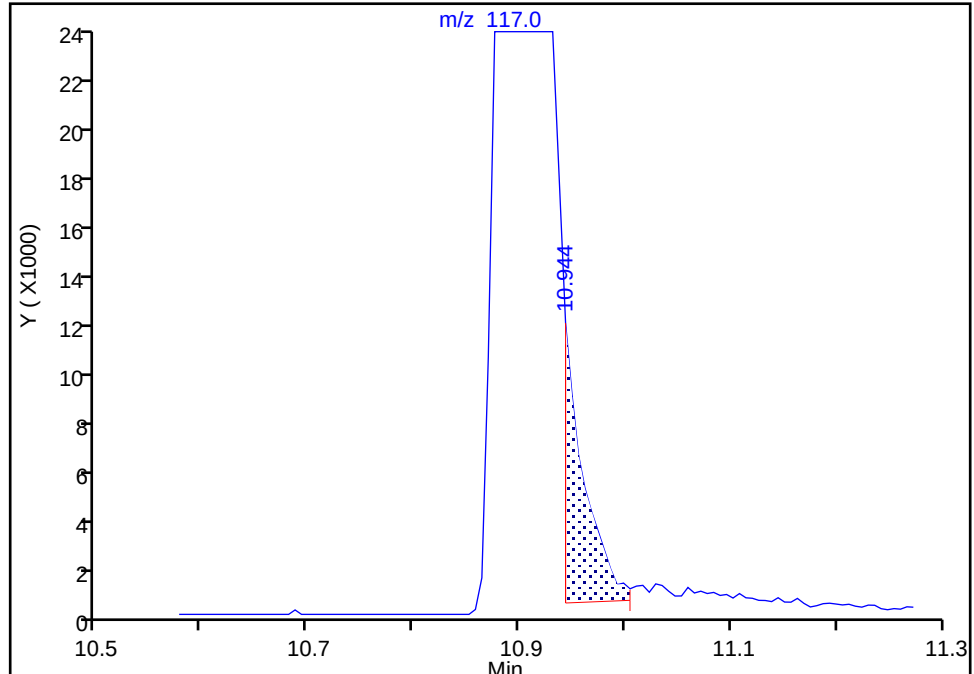
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X05.D
Injection Date: 14-Jun-2024 19:50:30 Instrument ID: 10193
Lims ID: IC STD2 Sm
Client ID:
Operator ID: MEC29284 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 111 Chlorobenzene-d5 (IS), CAS: 3114-55-4

Signal: 1

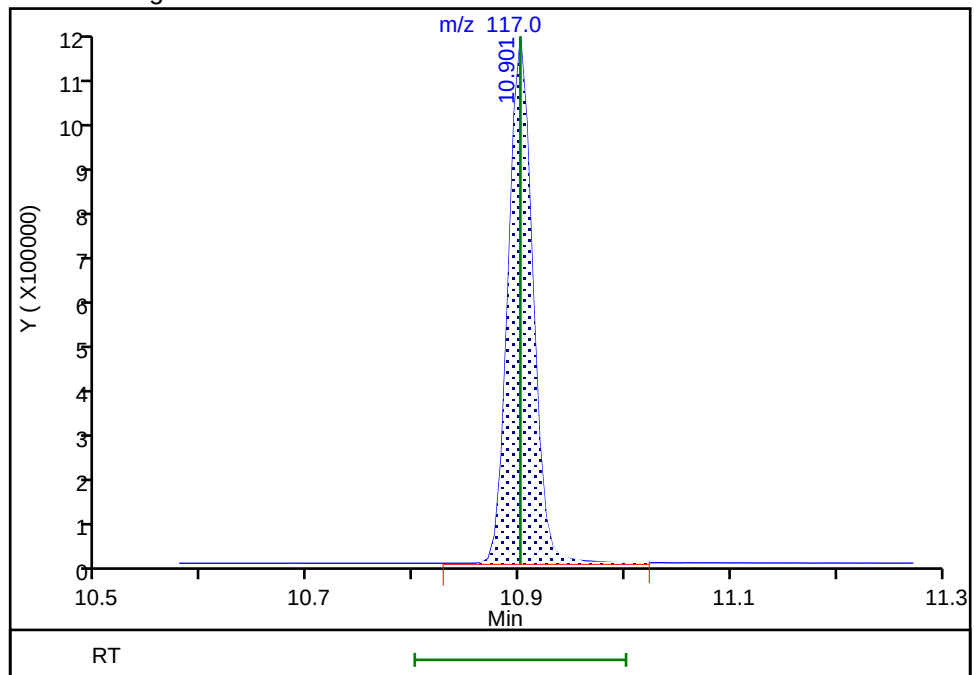
RT: 10.94
Area: 15634
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 10.90
Area: 1805744
Amount: 10.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:12:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

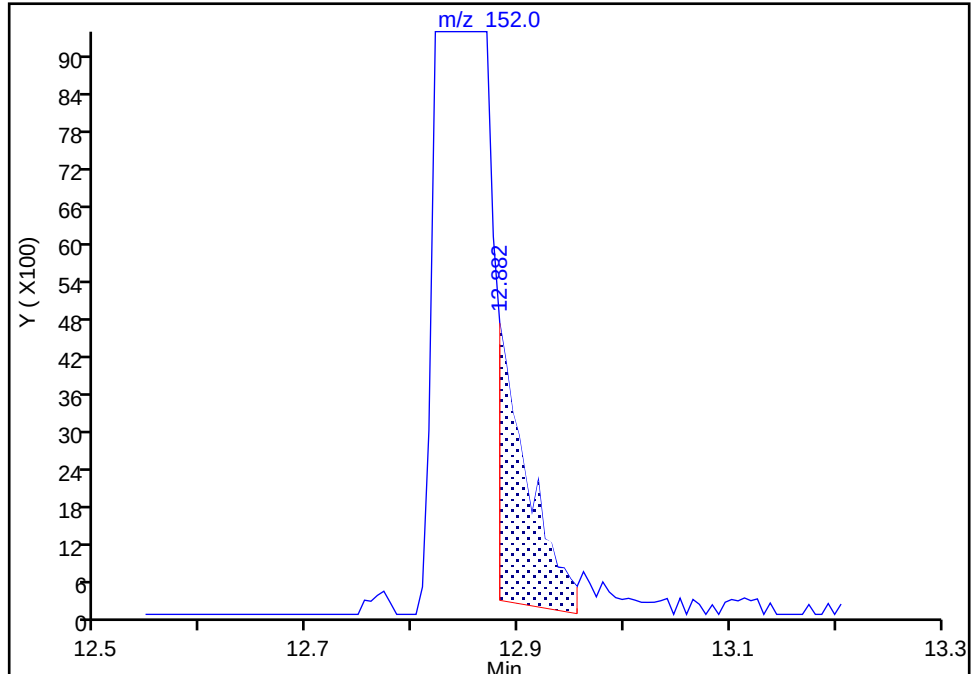
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X05.D
Injection Date: 14-Jun-2024 19:50:30 Instrument ID: 10193
Lims ID: IC STD2 Sm
Client ID:
Operator ID: MEC29284 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 139 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

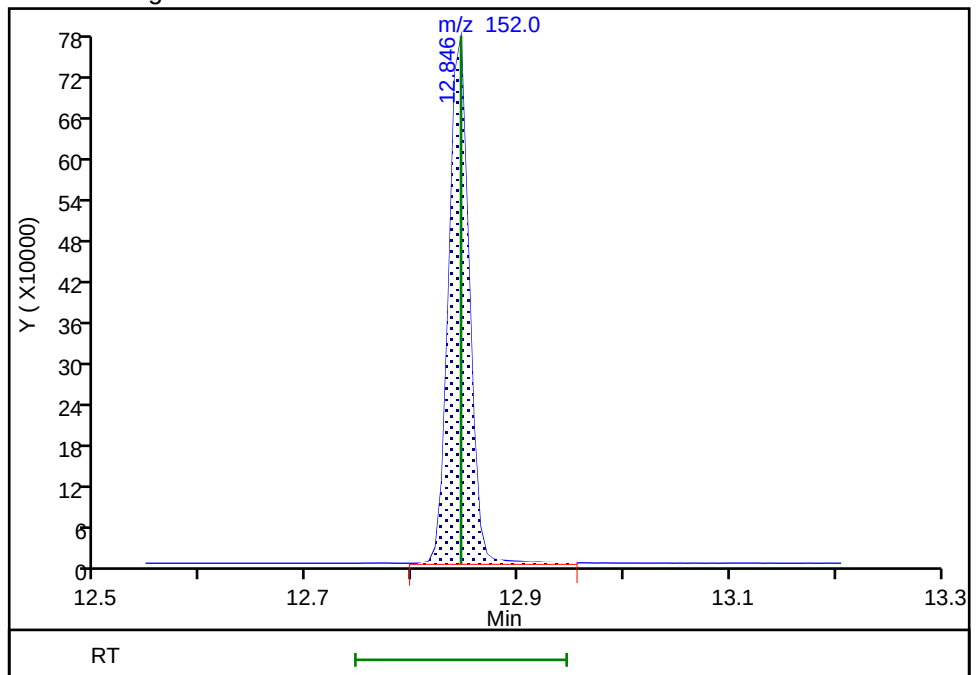
RT: 12.88
Area: 8880
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 12.85
Area: 1039899
Amount: 10.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:12:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X06.D
 Lims ID: IC STD5 Sm
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 14-Jun-2024 20:13:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0116724-007
 Misc. Info.: IC STD5 SM
 Operator ID: MEC29284 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub26
 Method: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 17-Jun-2024 19:28:31 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1606

First Level Reviewer: UCB5

Date: 16-Jun-2024 13:13:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.762	1.762	0.000	92	140191	5.00	4.69	
3 Chlorodifluoromethane	51	1.811	1.811	0.000	97	330865	5.00	4.47	
4 Dimethyl ether	45	1.866	1.860	0.006	99	361794	5.00	4.73	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.153	2.153	0.000	55	344038	5.00	4.69	
27 Acetonitrile	41	3.573	3.561	0.012	100	82922	25.0	24.7	
* 31 t-Butyl alcohol-d10 (IS)	65	3.811	3.798	0.013	97	191283	50.0	50.0	
38 Vinyl acetate	43	4.786	4.780	0.006	97	357166	5.00	5.12	
46 Ethyl acetate	43	5.688	5.682	0.006	99	193452	5.00	4.56	
63 Isopropyl acetate	43	6.957	6.956	0.001	98	435691	5.00	4.64	
* 65 Fluorobenzene (IS)	96	7.267	7.267	0.000	99	2298834	10.0	10.0	
75 n-Propyl acetate	61	8.286	8.292	-0.006	98	99130	5.00	4.65	
79 2-Chloroethyl vinyl ether	63	8.840	8.840	0.000	91	140731	5.00	4.88	
109 n-Butyl acetate	43	10.316	10.316	0.000	98	403811	5.00	4.68	
* 111 Chlorobenzene-d5 (IS)	117	10.901	10.901	0.000	84	1810185	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.852	11.852	0.000	97	179956	10.0	9.64	
123 Cyclohexanone	55	11.876	11.876	0.000	91	339356	250.0	247.8	
* 139 1,4-Dichlorobenzene-d4	152	12.846	12.845	0.001	93	1043540	10.0	10.0	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00037	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00008	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00071	Amount Added: 5.00	Units: uL
MSV_HP25_ISO_00010	Amount Added: 1.00	Units: uL
MSV_DME_00055	Amount Added: 1.00	Units: uL

Report Date: 17-Jun-2024 19:28:31

Chrom Revision: 2.3 03-Jun-2024 20:58:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X06.D

Injection Date: 14-Jun-2024 20:13:30

Instrument ID: 10193

Operator ID: MEC29284

Lims ID: IC STD5 Sm

Worklist Smp#: 7

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

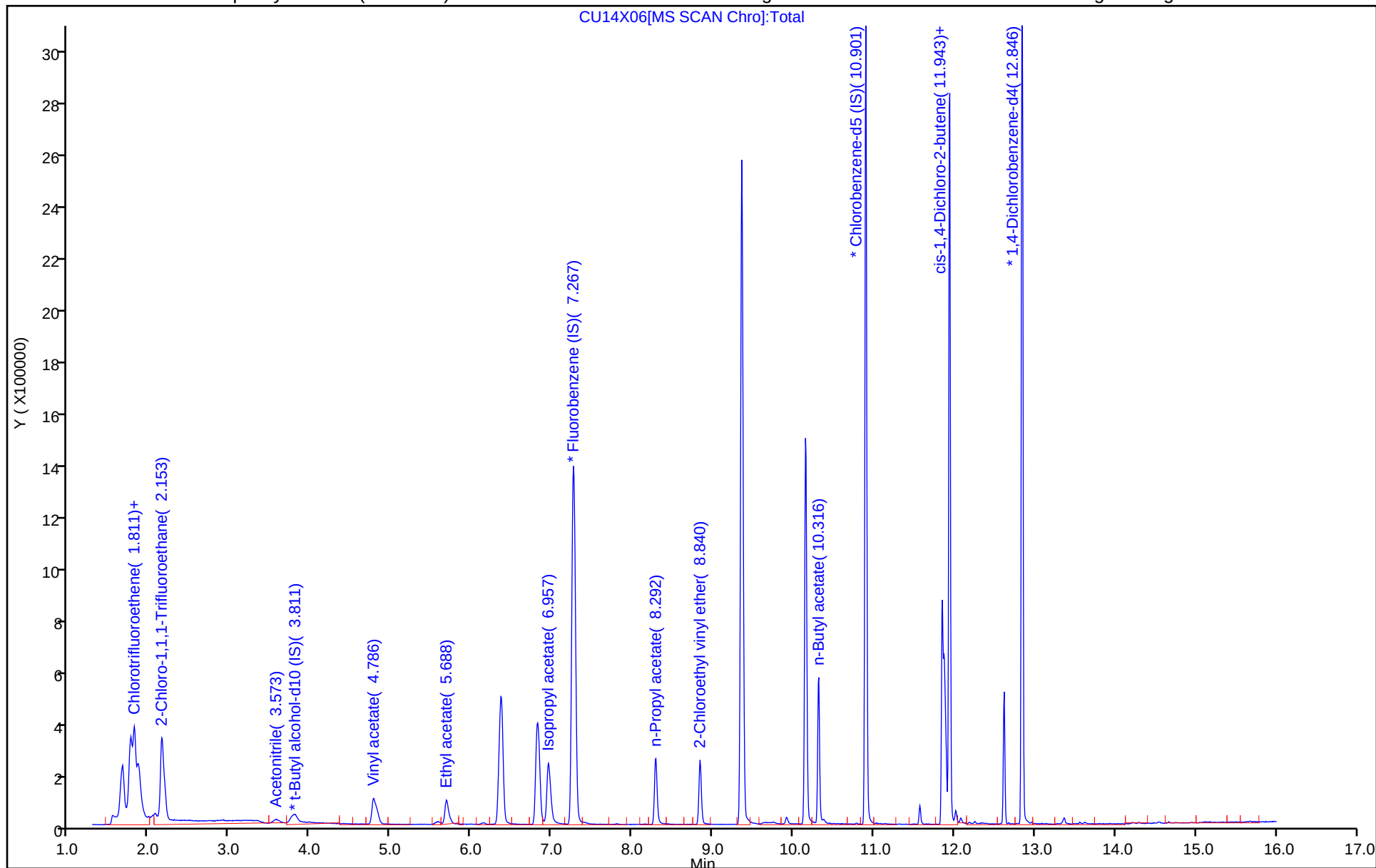
ALS Bottle#: 6

Method: MSV_10193_25mL

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

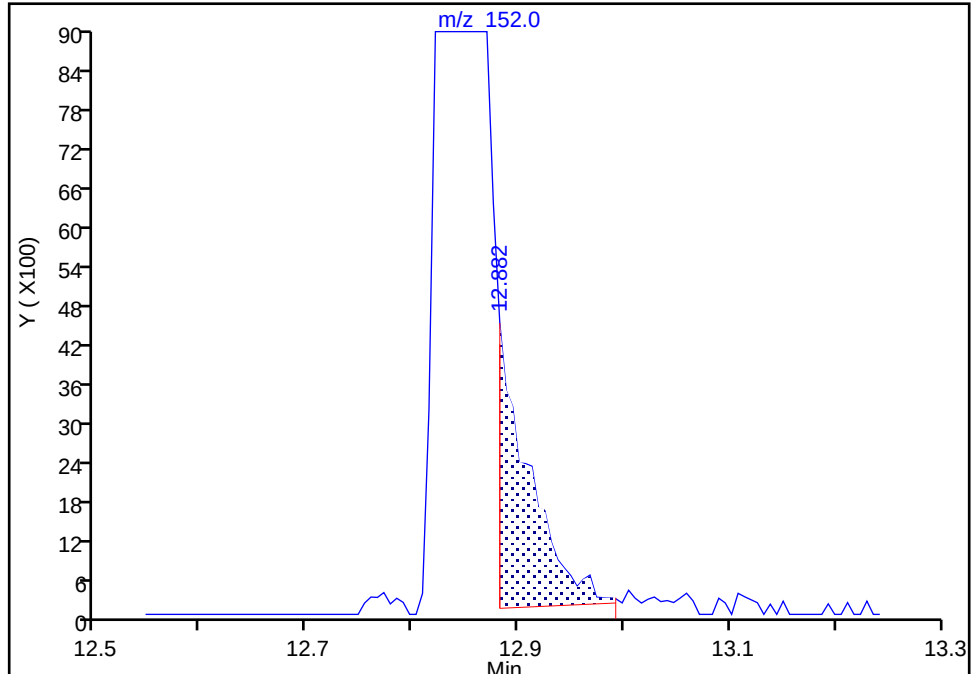
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X06.D
Injection Date: 14-Jun-2024 20:13:30 Instrument ID: 10193
Lims ID: IC STD5 Sm
Client ID:
Operator ID: MEC29284 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 139 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

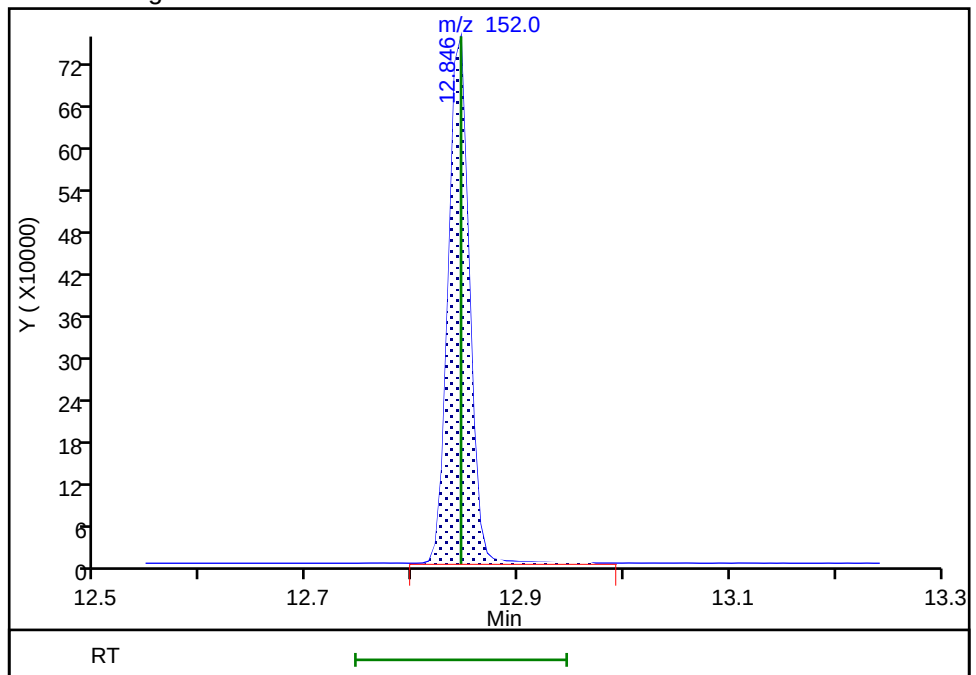
RT: 12.88
Area: 8918
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 12.85
Area: 1043540
Amount: 10.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:13:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X07.D
 Lims ID: IC STD10 Sm
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 14-Jun-2024 20:35:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0116724-008
 Misc. Info.: IC STD10 SM
 Operator ID: MEC29284 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub26
 Method: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 17-Jun-2024 19:28:33 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1606

First Level Reviewer: UCB5

Date: 16-Jun-2024 13:14:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.762	1.762	0.000	93	290674	10.0	10.1	
3 Chlorodifluoromethane	51	1.811	1.811	0.000	97	663098	10.0	9.28	
4 Dimethyl ether	45	1.860	1.860	0.000	99	718466	10.0	9.74	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.153	2.153	0.000	33	697666	10.0	9.85	
27 Acetonitrile	41	3.561	3.561	0.000	98	161395	50.0	49.8	
* 31 t-Butyl alcohol-d10 (IS)	65	3.792	3.792	0.000	96	169129	50.0	50.0	
38 Vinyl acetate	43	4.780	4.780	0.000	97	591536	10.0	8.79	
46 Ethyl acetate	43	5.682	5.682	0.000	99	378013	10.0	9.23	
63 Isopropyl acetate	43	6.956	6.956	0.000	98	828807	10.0	9.15	
* 65 Fluorobenzene (IS)	96	7.267	7.267	0.000	99	2216624	10.0	10.0	
75 n-Propyl acetate	61	8.292	8.292	0.000	98	191314	10.0	9.30	
79 2-Chloroethyl vinyl ether	63	8.840	8.840	0.000	92	287969	10.0	10.4	
109 n-Butyl acetate	43	10.316	10.316	0.000	98	782776	10.0	9.30	
* 111 Chlorobenzene-d5 (IS)	117	10.901	10.901	0.000	83	1766238	10.0	10.0	M
122 cis-1,4-Dichloro-2-butene	88	11.852	11.852	0.000	97	376311	20.0	20.7	
123 Cyclohexanone	55	11.876	11.876	0.000	91	588934	500.0	486.4	
* 139 1,4-Dichlorobenzene-d4	152	12.846	12.846	0.000	93	1007513	10.0	10.0	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00037	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00008	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00071	Amount Added: 5.00	Units: uL
MSV_HP25_ISO_00010	Amount Added: 1.00	Units: uL
MSV_DME_00055	Amount Added: 1.00	Units: uL

Report Date: 17-Jun-2024 19:28:33

Chrom Revision: 2.3 03-Jun-2024 20:58:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X07.D

Injection Date: 14-Jun-2024 20:35:30

Instrument ID: 10193

Operator ID: MEC29284

Lims ID: IC STD10 Sm

Worklist Smp#: 8

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

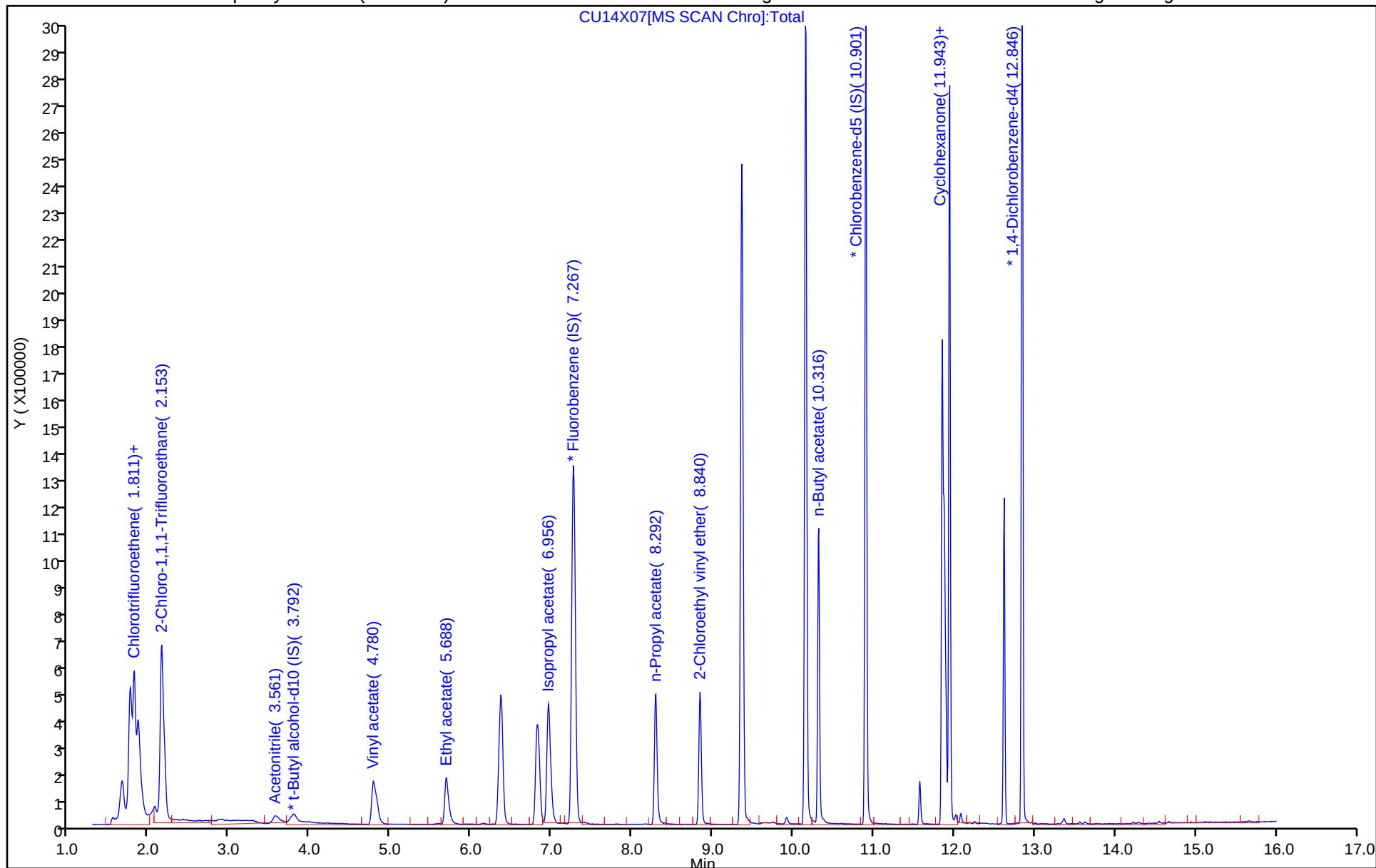
ALS Bottle#: 7

Method: MSV_10193_25mL

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

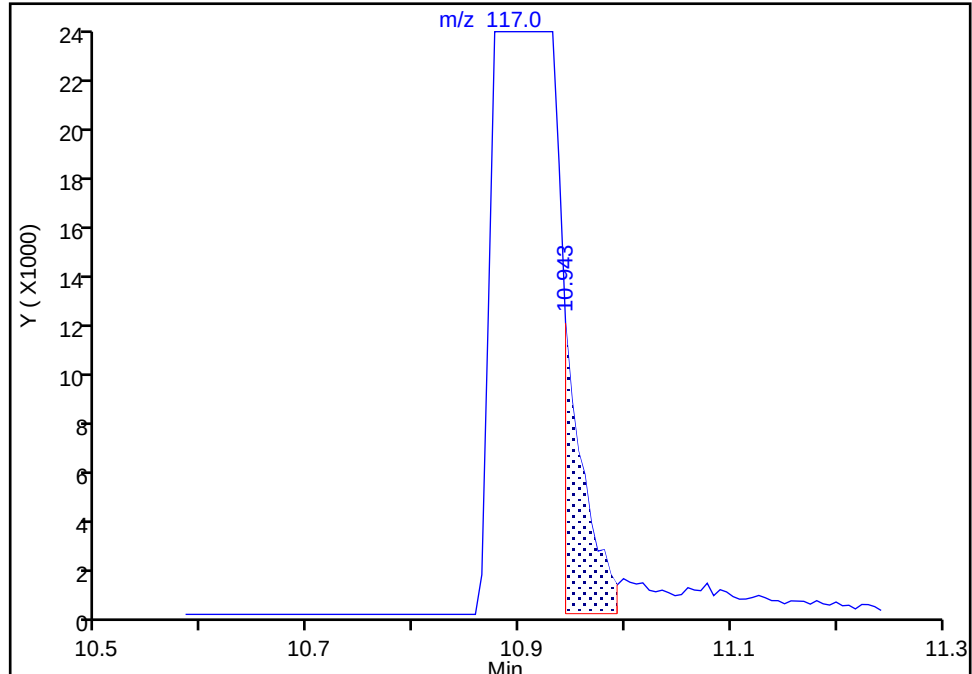
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X07.D
Injection Date: 14-Jun-2024 20:35:30 Instrument ID: 10193
Lims ID: IC STD10 Sm
Client ID:
Operator ID: MEC29284 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 111 Chlorobenzene-d5 (IS), CAS: 3114-55-4

Signal: 1

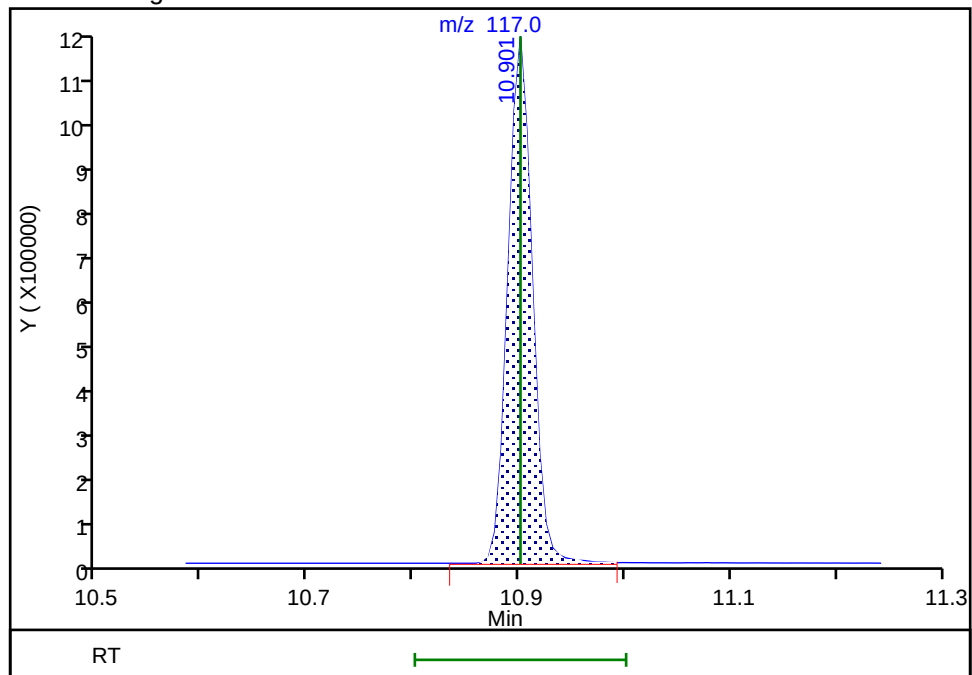
RT: 10.94
Area: 15675
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 10.90
Area: 1766238
Amount: 10.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:14:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

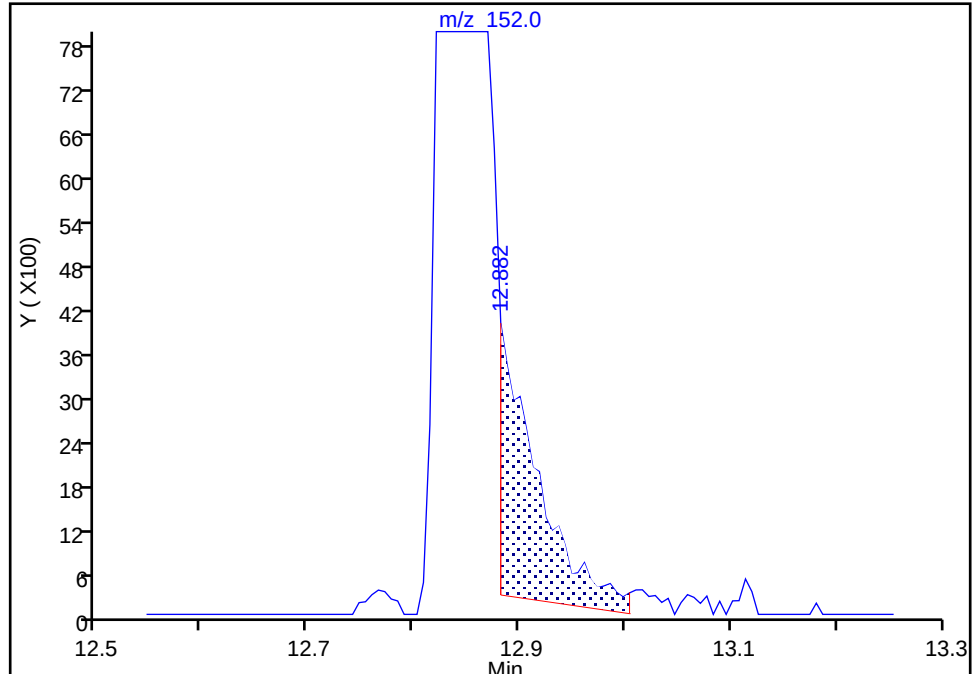
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X07.D
Injection Date: 14-Jun-2024 20:35:30 Instrument ID: 10193
Lims ID: IC STD10 Sm
Client ID:
Operator ID: MEC29284 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 139 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

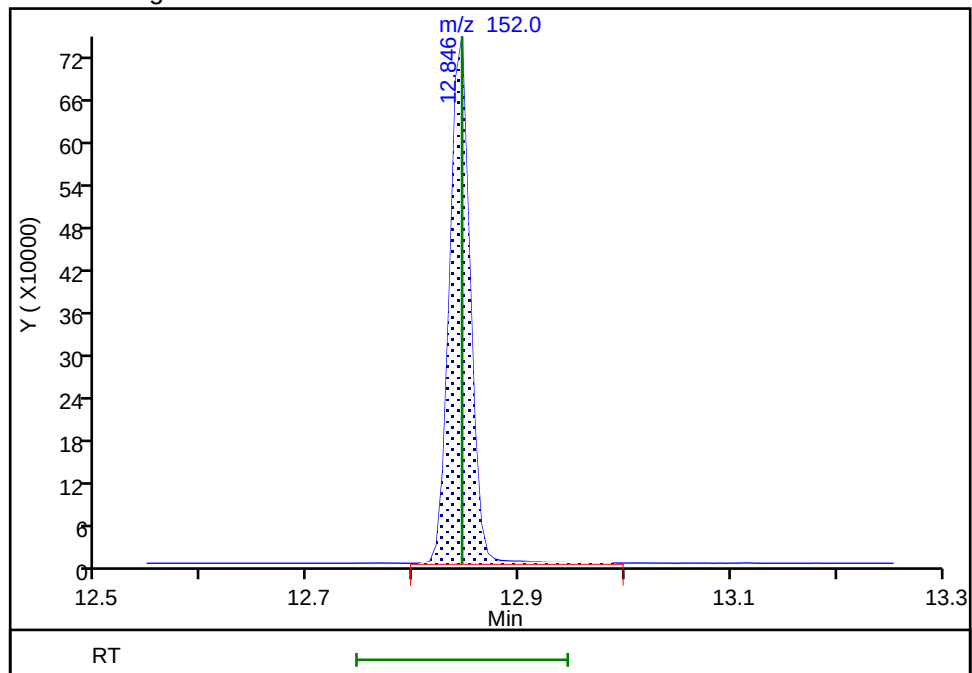
RT: 12.88
Area: 9427
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 12.85
Area: 1007513
Amount: 10.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:14:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X08.D
 Lims ID: IC STD25 Sm
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 14-Jun-2024 20:58:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0116724-009
 Misc. Info.: IC STD25 SM
 Operator ID: MEC29284 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub26
 Method: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 17-Jun-2024 19:28:36 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1606

First Level Reviewer: UCB5

Date: 16-Jun-2024 13:15:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.762	1.762	0.000	93	751862	25.0	25.5	
3 Chlorodifluoromethane	51	1.817	1.811	0.006	97	1644844	25.0	22.5	
4 Dimethyl ether	45	1.866	1.860	0.006	98	1717783	25.0	22.8	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.152	2.153	-0.001	33	1758521	25.0	24.3	
27 Acetonitrile	41	3.561	3.561	0.000	99	383998	125.0	115.8	
* 31 t-Butyl alcohol-d10 (IS)	65	3.811	3.792	0.019	96	171543	50.0	50.0	
38 Vinyl acetate	43	4.786	4.780	0.006	97	1320162	25.0	19.2	
46 Ethyl acetate	43	5.688	5.682	0.006	99	931100	25.0	22.2	
63 Isopropyl acetate	43	6.956	6.956	0.000	98	2073951	25.0	22.4	
* 65 Fluorobenzene (IS)	96	7.267	7.267	0.000	99	2266360	10.0	10.0	
75 n-Propyl acetate	61	8.291	8.292	-0.001	98	479977	25.0	22.8	
79 2-Chloroethyl vinyl ether	63	8.840	8.840	0.000	92	728916	25.0	25.6	
109 n-Butyl acetate	43	10.315	10.316	-0.001	98	1919068	25.0	22.5	
* 111 Chlorobenzene-d5 (IS)	117	10.901	10.901	0.000	83	1787560	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.852	11.852	0.000	97	949343	50.0	51.5	
123 Cyclohexanone	55	11.876	11.876	0.000	91	1480018	1250.0	1205.2	
* 139 1,4-Dichlorobenzene-d4	152	12.845	12.846	-0.001	93	1032134	10.0	10.0	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00037	Amount Added: 2.50	Units: uL
MSV_CCV_CYC_00008	Amount Added: 20.00	Units: uL
MSV_V_SMRV4_00071	Amount Added: 12.50	Units: uL
MSV_HP25_ISO_00010	Amount Added: 1.00	Units: uL
MSV_DME_00055	Amount Added: 2.50	Units: uL

Report Date: 17-Jun-2024 19:28:36

Chrom Revision: 2.3 03-Jun-2024 20:58:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X08.D

Injection Date: 14-Jun-2024 20:58:30

Instrument ID: 10193

Operator ID: MEC29284

Lims ID: IC STD25 Sm

Worklist Smp#: 9

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

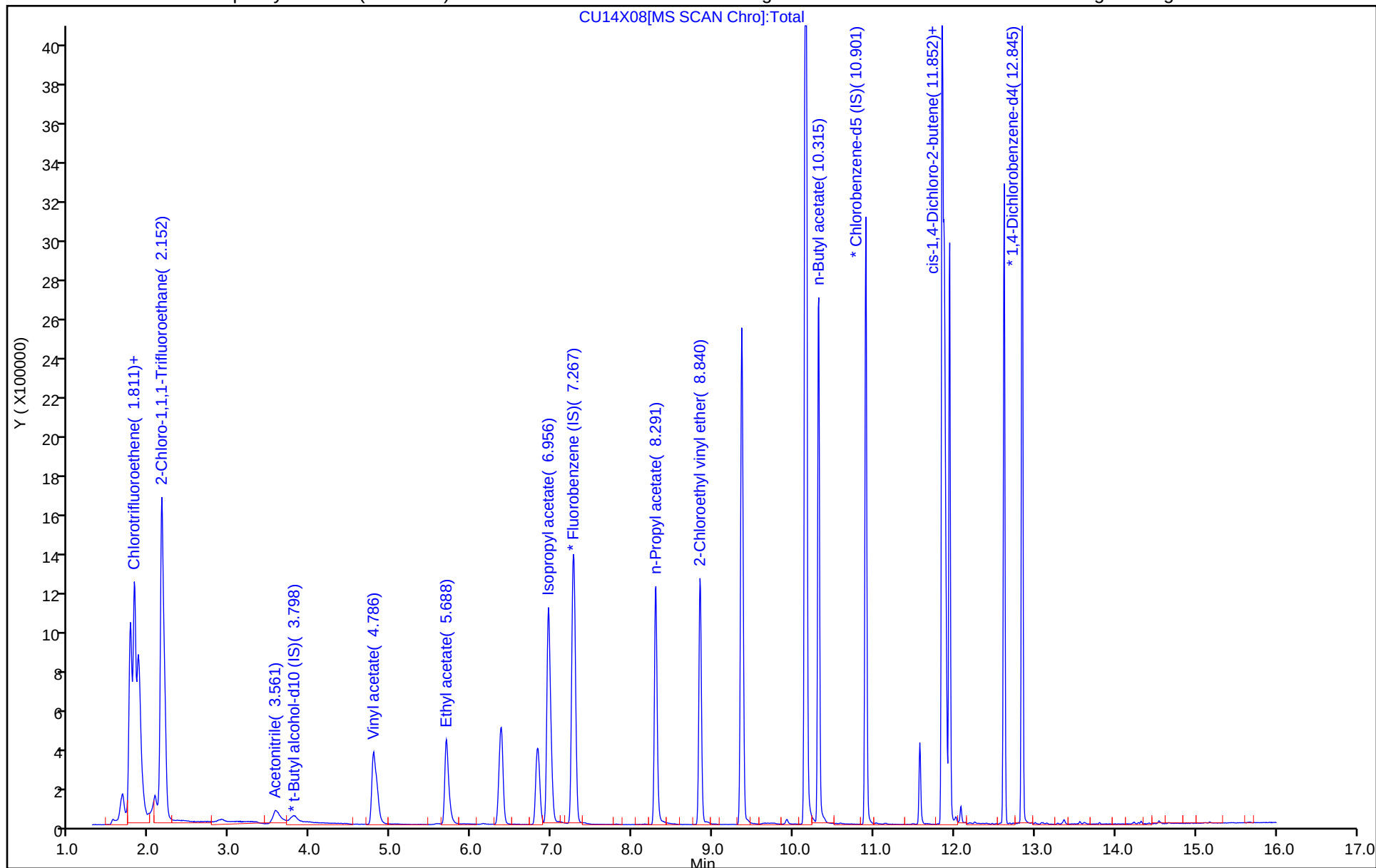
ALS Bottle#: 8

Method: MSV_10193_25mL

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



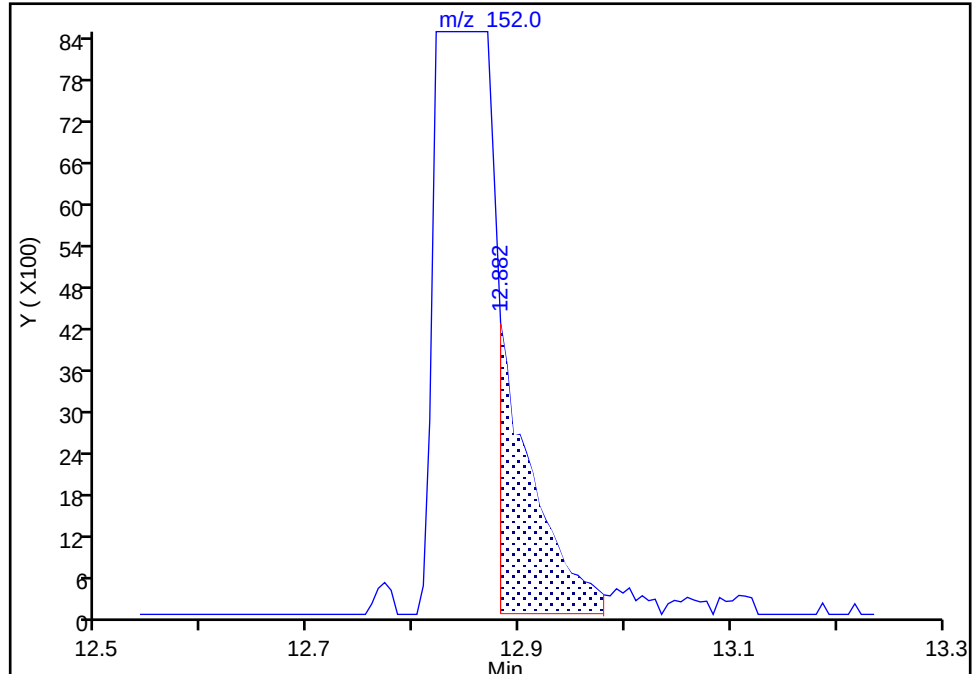
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X08.D
Injection Date: 14-Jun-2024 20:58:30 Instrument ID: 10193
Lims ID: IC STD25 Sm
Client ID:
Operator ID: MEC29284 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 139 1,4-Dichlorobenzene-d4, CAS: 3855-82-1
Signal: 1

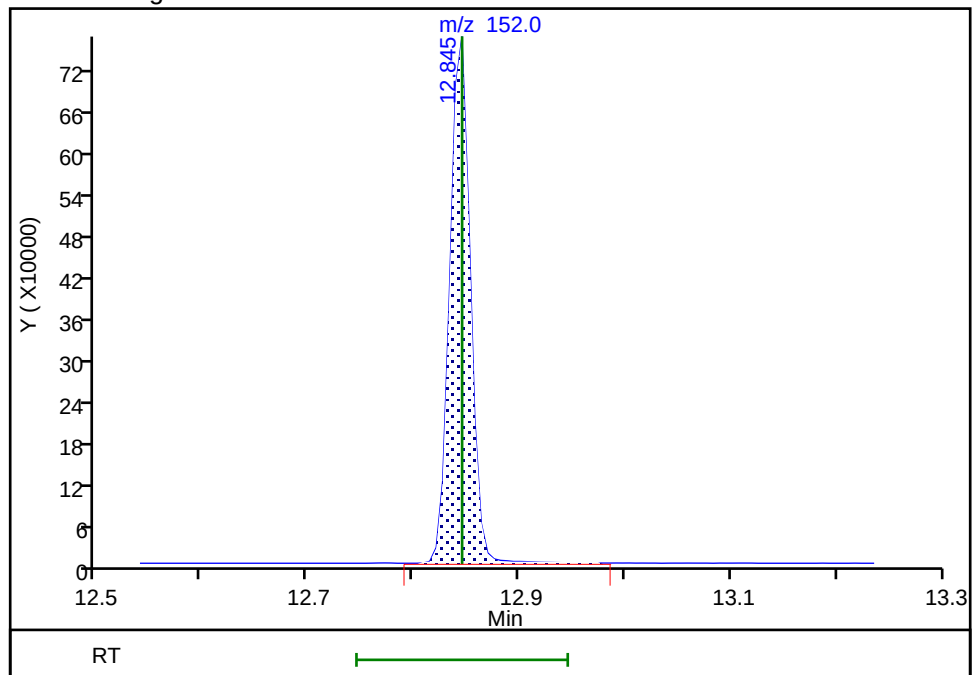
RT: 12.88
Area: 9473
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 12.85
Area: 1032134
Amount: 10.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:15:22 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Calibration

/ Chlorodifluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

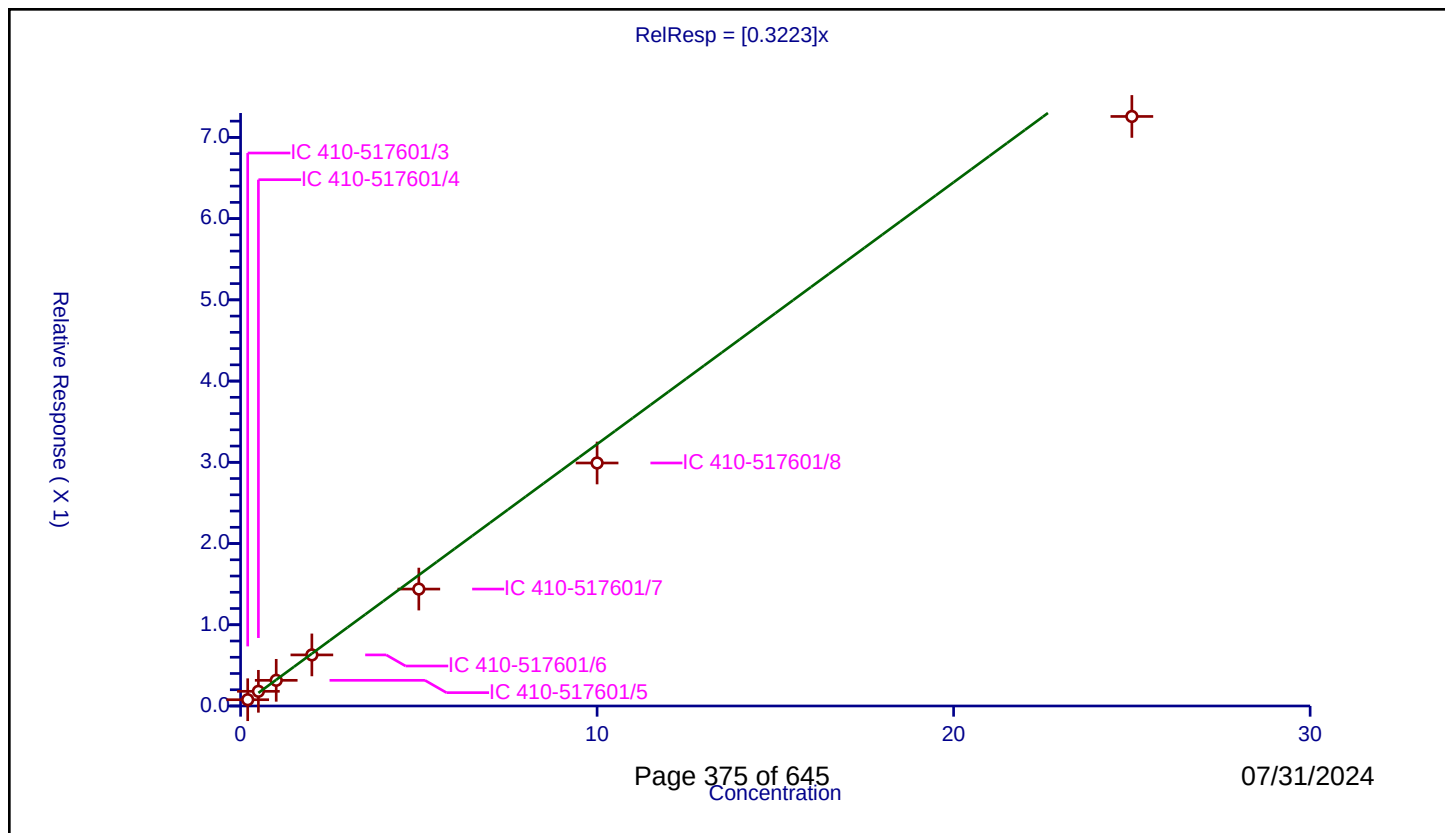
Curve Coefficients

Intercept: 0
Slope: 0.3223

Error Coefficients

Relative Standard Deviation: 11.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/3	0.2	0.077398	10.0	2213224.0	0.386992	Y
2	IC 410-517601/4	0.5	0.180862	10.0	2244091.0	0.361723	Y
3	IC 410-517601/5	1.0	0.315959	10.0	2229529.0	0.315959	Y
4	IC 410-517601/6	2.0	0.628867	10.0	2275521.0	0.314433	Y
5	IC 410-517601/7	5.0	1.439273	10.0	2298834.0	0.287855	Y
6	IC 410-517601/8	10.0	2.991477	10.0	2216624.0	0.299148	Y
7	IC 410-517601/9	25.0	7.257647	10.0	2266360.0	0.290306	Y



Calibration

/ Dimethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

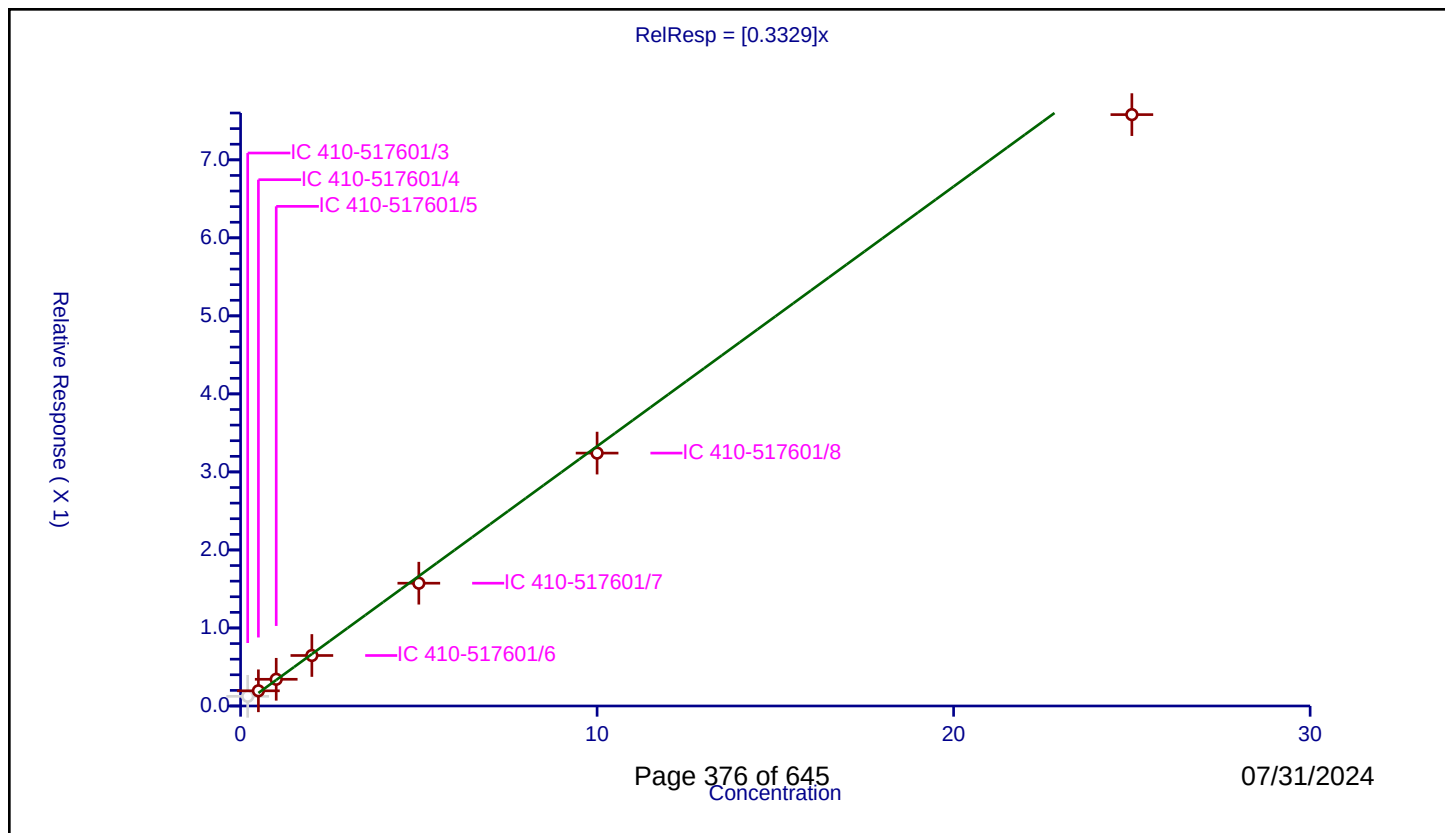
Curve Coefficients

Intercept: 0
Slope: 0.3329

Error Coefficients

Relative Standard Deviation: 9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/3	0.2	0.123752	10.0	2213224.0	0.618758	N
2	IC 410-517601/4	0.5	0.194765	10.0	2244091.0	0.38953	Y
3	IC 410-517601/5	1.0	0.342243	10.0	2229529.0	0.342243	Y
4	IC 410-517601/6	2.0	0.647025	10.0	2275521.0	0.323513	Y
5	IC 410-517601/7	5.0	1.573815	10.0	2298834.0	0.314763	Y
6	IC 410-517601/8	10.0	3.241262	10.0	2216624.0	0.324126	Y
7	IC 410-517601/9	25.0	7.57948	10.0	2266360.0	0.303179	Y



Calibration

/ Acetonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

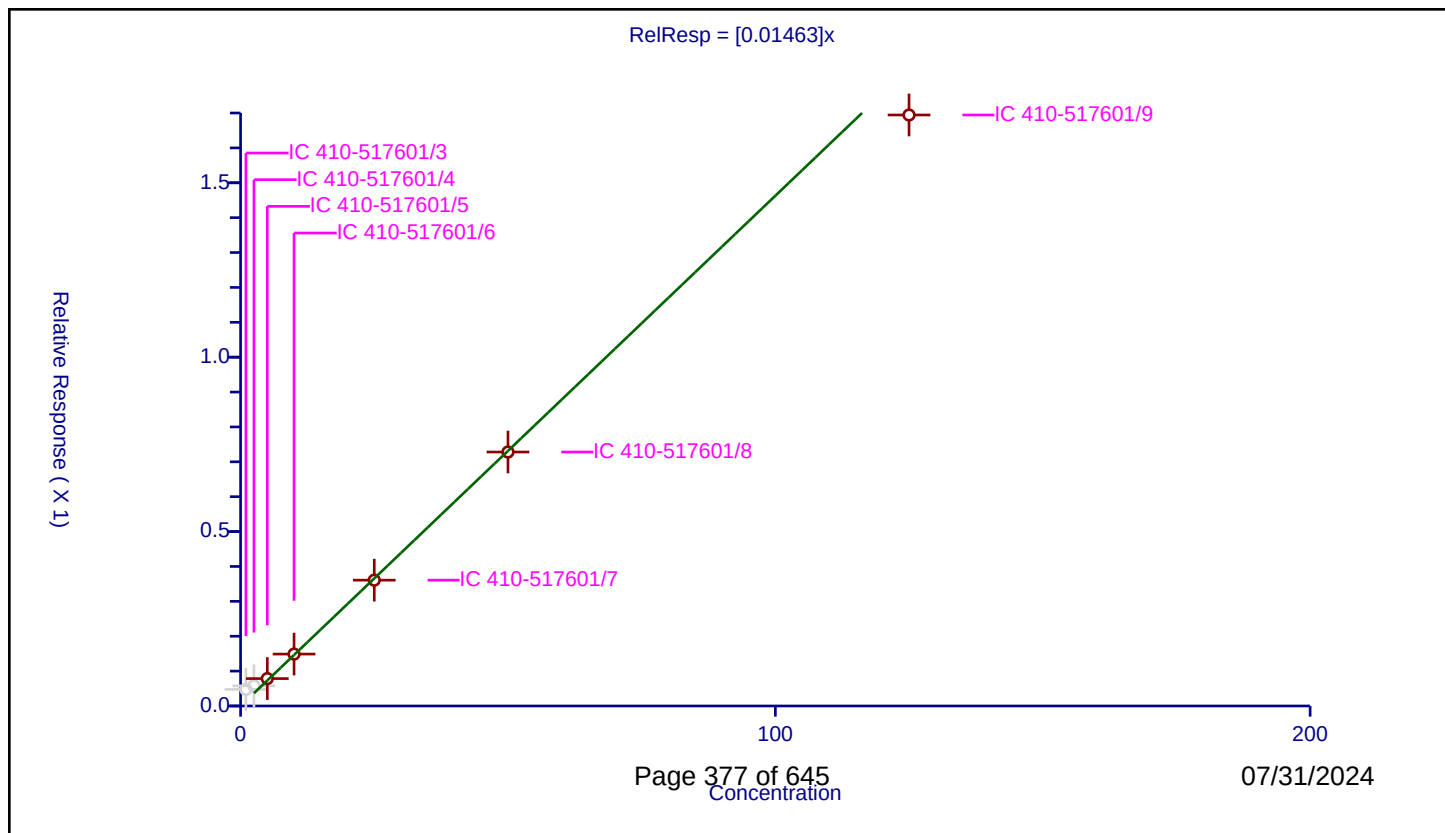
Curve Coefficients

Intercept: 0
Slope: 0.01463

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/3	1.0	0.047474	10.0	2213224.0	0.047474	N
2	IC 410-517601/4	2.5	0.057783	10.0	2244091.0	0.023113	N
3	IC 410-517601/5	5.0	0.078559	10.0	2229529.0	0.015712	Y
4	IC 410-517601/6	10.0	0.148823	10.0	2275521.0	0.014882	Y
5	IC 410-517601/7	25.0	0.360713	10.0	2298834.0	0.014429	Y
6	IC 410-517601/8	50.0	0.728112	10.0	2216624.0	0.014562	Y
7	IC 410-517601/9	125.0	1.694338	10.0	2266360.0	0.013555	Y



Calibration

/ Vinyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

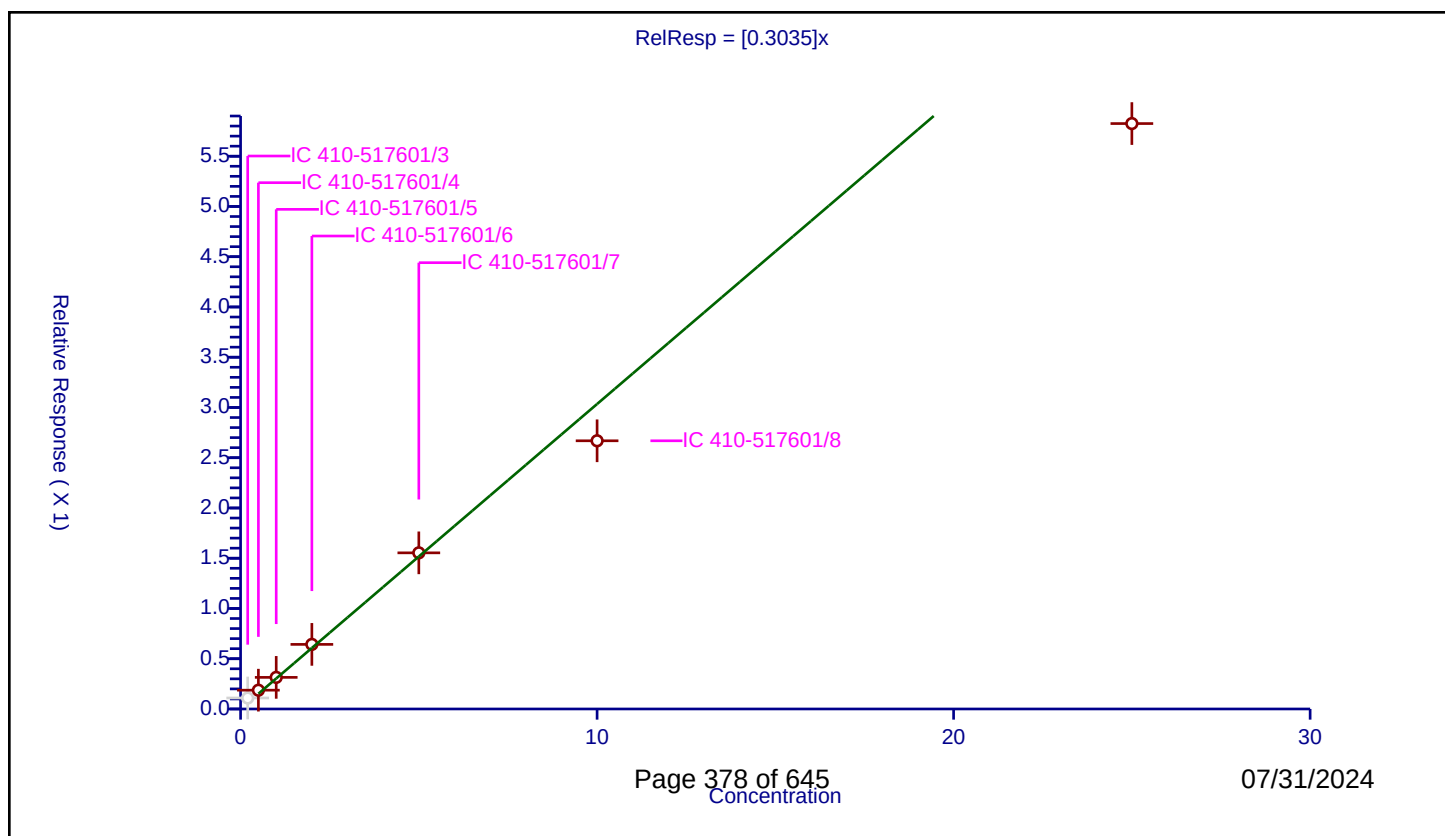
Curve Coefficients

Intercept: 0
Slope: 0.3035

Error Coefficients

Relative Standard Deviation: 16.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/3	0.2	0.109447	10.0	2213224.0	0.547233	N
2	IC 410-517601/4	0.5	0.187056	10.0	2244091.0	0.374111	Y
3	IC 410-517601/5	1.0	0.314591	10.0	2229529.0	0.314591	Y
4	IC 410-517601/6	2.0	0.64282	10.0	2275521.0	0.32141	Y
5	IC 410-517601/7	5.0	1.553683	10.0	2298834.0	0.310737	Y
6	IC 410-517601/8	10.0	2.668635	10.0	2216624.0	0.266863	Y
7	IC 410-517601/9	25.0	5.825032	10.0	2266360.0	0.233001	Y



Calibration

/ Ethyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

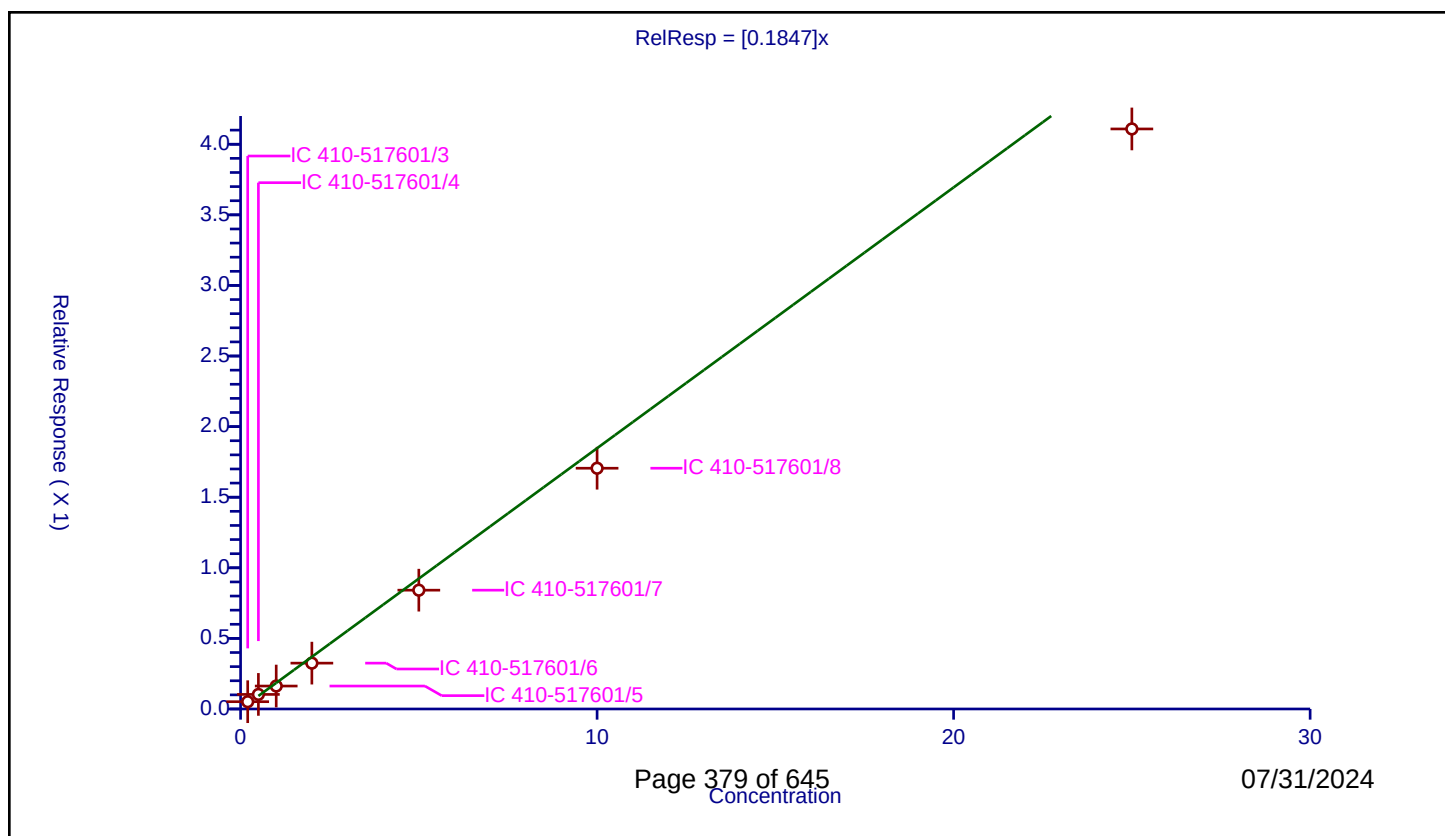
Curve Coefficients

Intercept: 0
Slope: 0.1847

Error Coefficients

Relative Standard Deviation: 19.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/3	0.2	0.051662	10.0	2213224.0	0.258311	Y
2	IC 410-517601/4	0.5	0.103298	10.0	2244091.0	0.206596	Y
3	IC 410-517601/5	1.0	0.162505	10.0	2229529.0	0.162505	Y
4	IC 410-517601/6	2.0	0.324752	10.0	2275521.0	0.162376	Y
5	IC 410-517601/7	5.0	0.841522	10.0	2298834.0	0.168304	Y
6	IC 410-517601/8	10.0	1.705355	10.0	2216624.0	0.170535	Y
7	IC 410-517601/9	25.0	4.10835	10.0	2266360.0	0.164334	Y



Calibration

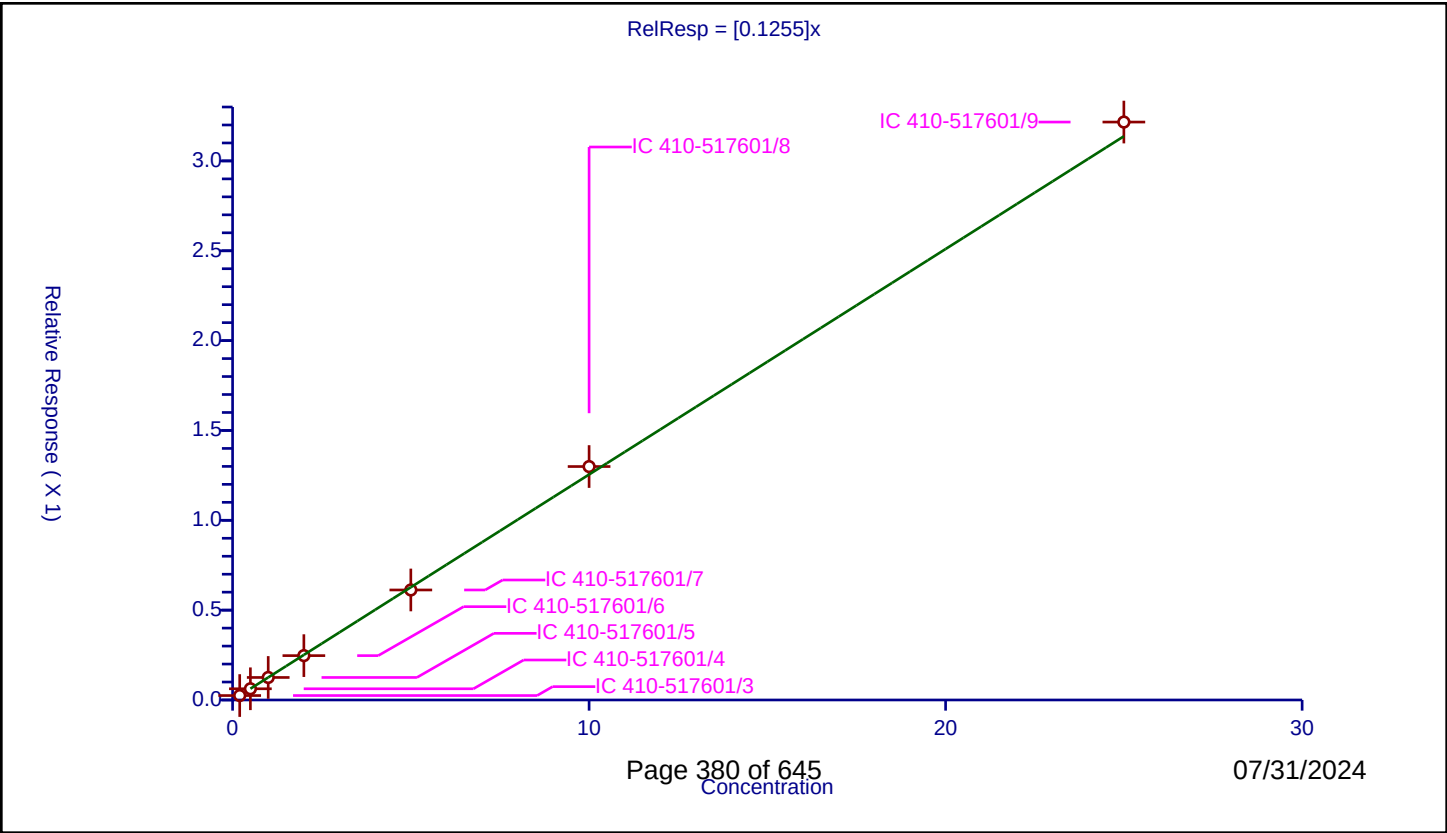
/ 2-Chloroethyl vinyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1255
Error Coefficients	

Relative Standard Deviation: 2.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/3	0.2	0.024783	10.0	2213224.0	0.123914	Y
2	IC 410-517601/4	0.5	0.062377	10.0	2244091.0	0.124754	Y
3	IC 410-517601/5	1.0	0.125309	10.0	2229529.0	0.125309	Y
4	IC 410-517601/6	2.0	0.246845	10.0	2275521.0	0.123422	Y
5	IC 410-517601/7	5.0	0.612184	10.0	2298834.0	0.122437	Y
6	IC 410-517601/8	10.0	1.299133	10.0	2216624.0	0.129913	Y
7	IC 410-517601/9	25.0	3.216241	10.0	2266360.0	0.12865	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

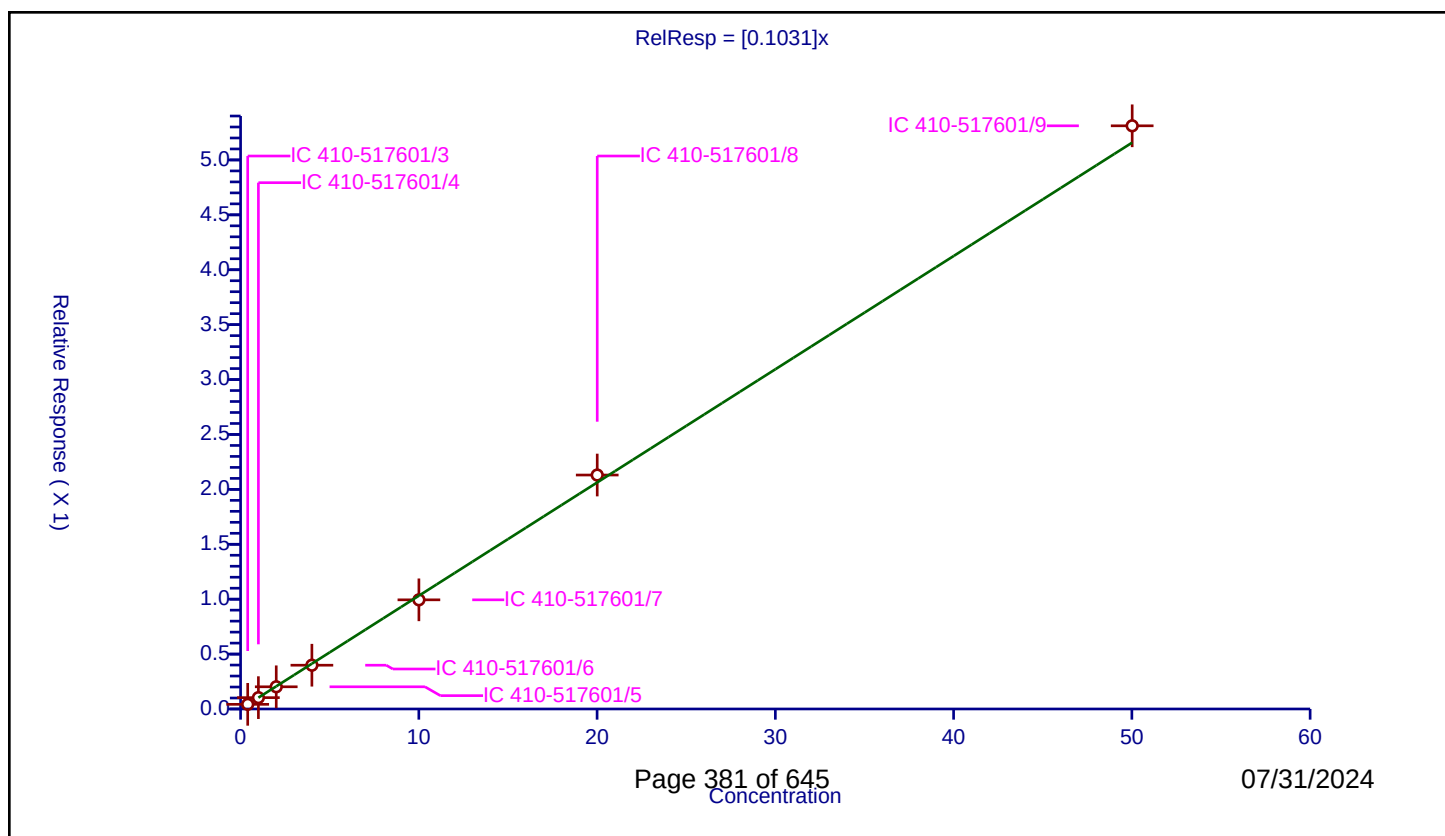
Curve Coefficients

Intercept: 0
Slope: 0.1031

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/3	0.40014	0.042345	10.0	1768346.0	0.105825	Y
2	IC 410-517601/4	1.00035	0.10341	10.0	1787741.0	0.103374	Y
3	IC 410-517601/5	2.0007	0.202049	10.0	1772095.0	0.100989	Y
4	IC 410-517601/6	4.0014	0.398645	10.0	1805744.0	0.099626	Y
5	IC 410-517601/7	10.0035	0.99413	10.0	1810185.0	0.099378	Y
6	IC 410-517601/8	20.007	2.130579	10.0	1766238.0	0.106492	Y
7	IC 410-517601/9	50.0175	5.310832	10.0	1787560.0	0.106179	Y



Calibration

/ Cyclohexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

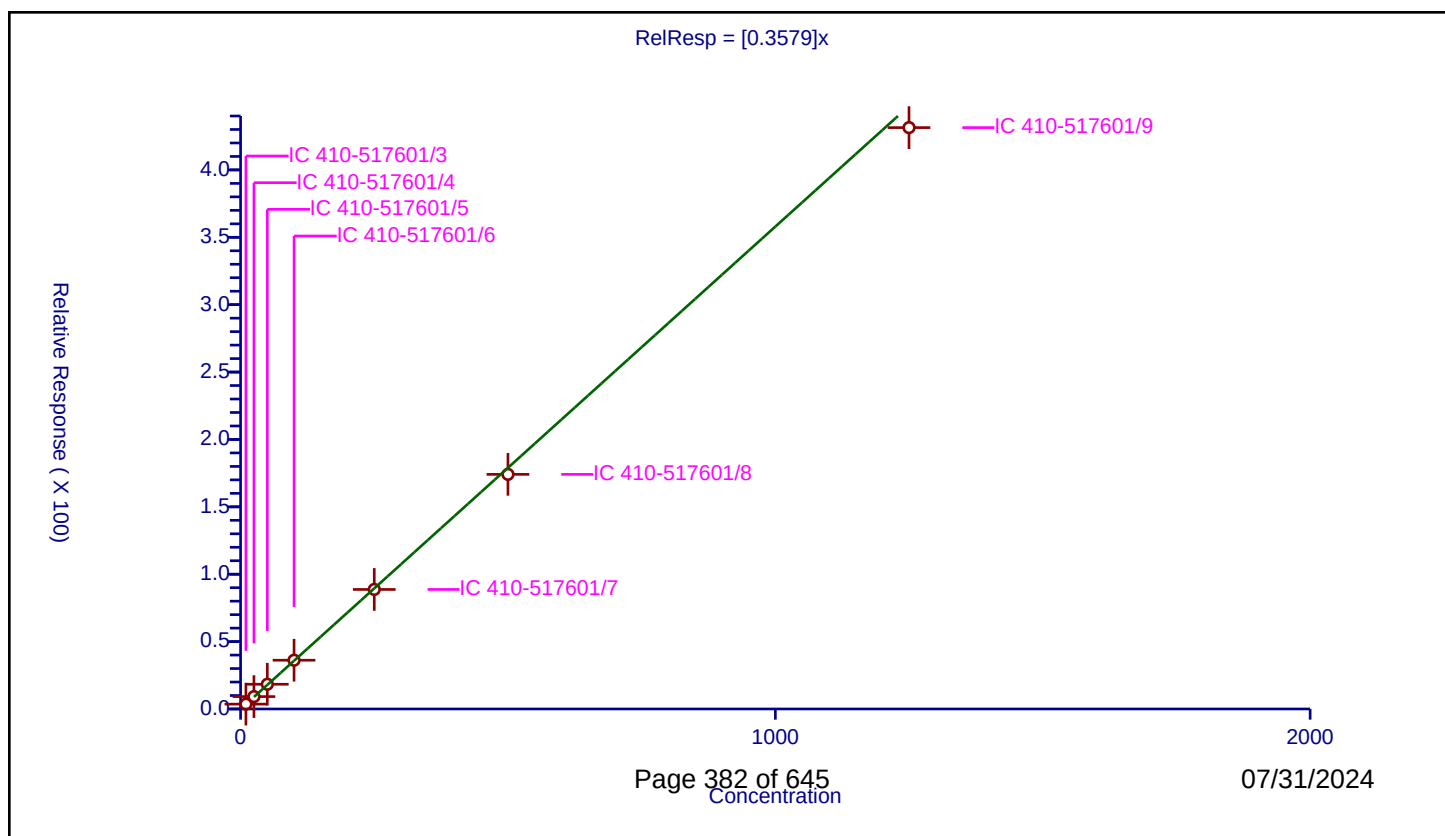
Curve Coefficients

Intercept: 0
Slope: 0.3579

Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/3	9.999698	3.610488	50.0	174644.0	0.36106	Y
2	IC 410-517601/4	24.999246	9.188586	50.0	178836.0	0.367555	Y
3	IC 410-517601/5	49.998492	18.351917	50.0	180270.0	0.367049	Y
4	IC 410-517601/6	99.996984	36.175072	50.0	177755.0	0.361762	Y
5	IC 410-517601/7	249.99246	88.705217	50.0	191283.0	0.354832	Y
6	IC 410-517601/8	499.98492	174.107929	50.0	169129.0	0.348226	Y
7	IC 410-517601/9	1249.9623	431.383968	50.0	171543.0	0.345118	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-517601/13	CU14X12.D
Level 2	IC 410-517601/14	CU14X13.D
Level 3	IC 410-517601/15	CU14X14.D
Level 4	IC 410-517601/16	CU14X15.D
Level 5	IC 410-517601/17	CU14X16.D
Level 6	ICIS 410-517601/18	CU14X17.D
Level 7	IC 410-517601/19	CU14X18.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	0.3585 0.3217	0.3306 0.3413	0.3183	0.3264	0.3277	Ave		0.332 1			0.1000	4.1		20.0			
Chloromethane	0.3949 0.3548	0.3939 0.3732	0.3609	0.3861	0.3625	Ave		0.375 2			0.1000	4.4		20.0			
Vinyl chloride	0.3827 0.3540	0.3769 0.3765	0.3550	0.3807	0.3585	Ave		0.369 2			0.1000	3.5		20.0			
1,3-Butadiene	0.4306 0.3780	0.3905 0.3872	0.3969	0.3971	0.3818	Ave		0.394 6				4.4		20.0			
Bromomethane	0.2911 0.2468	0.2647 0.2588	0.2475	0.2628	0.2461	Ave		0.259 7			0.1000	6.1		20.0			
Chloroethane	0.2265 0.2026	0.2121 0.2134	0.2041	0.2150	0.2064	Ave		0.211 4			0.1000	3.9		20.0			
Dichlorofluoromethane	0.5749 0.5358	0.5299 0.5650	0.5276	0.5641	0.5372	Ave		0.547 8			0.1000	3.6		20.0			
Trichlorofluoromethane	0.4629 0.4154	0.4228 0.4344	0.4155	0.4379	0.4182	Ave		0.429 6			0.1000	4.0		20.0			
Ethyl ether	0.1994 0.1898	0.1907 0.2039	0.1919	0.1920	0.1905	Ave		0.194 0				2.8		20.0			
Freon 123a	0.3474 0.3040	0.3222 0.3231	0.2975	0.3139	0.3045	Ave		0.316 1				5.3		20.0			
Acrolein	1.9170 1.9925	1.7383 2.0355	1.9332	2.0045	1.8673	Ave		1.926 9				5.2		20.0			
1,1-Dichloroethene	0.2565 0.2155	0.2359 0.2291	0.2190	0.2287	0.2168	Ave		0.228 8			0.1000	6.3		20.0			
Acetone	3.0309 2.3621	2.5283 2.3329	2.3724	2.4062	2.3250	Ave		2.479 7			0.1000	10.2		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.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

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								
Freon 113	0.2432 0.2334	0.2328 0.2416	0.2247	0.2348	0.2370	Ave		0.235 4			0.1000	2.6		20.0			
Methyl iodide	0.4968 0.4660	0.4652 0.4959	0.4600	0.4820	0.4687	Ave		0.476 4				3.2		20.0			
Ethyl bromide	0.2074 0.2041	0.2085 0.2203	0.2067	0.2061	0.2048	Ave		0.208 3				2.7		20.0			
Carbon disulfide	0.7665 0.7283	0.7161 0.7885	0.7089	0.7572	0.7329	Ave		0.742 6			0.1000	3.9		20.0			
Methyl acetate	8.0171 6.8786	7.2486 6.8930	6.6617	7.2602	6.8733	Ave		7.118 9			0.1000	6.3		20.0			
Allyl chloride	0.3841 0.3735	0.3706 0.4012	0.3719	0.3849	0.3740	Ave		0.380 n				2.9		20.0			
Methylene Chloride	0.3293 0.2548	0.2711 0.2689	0.2687	0.2595	0.2558	Ave		0.272 6			0.1000	9.5		20.0			
t-Butyl alcohol	1.1323 0.8629	1.0159 0.8887	0.9839	1.0305	0.8527	Ave		0.966 7				10.7		20.0			
Acrylonitrile	4.5745 3.3508	3.4807 3.3586	3.6236	3.8018	3.1573	Ave		3.621 n				12.9		20.0			
Methyl tert-butyl ether	0.7265 0.6970	0.6904 0.7293	0.6839	0.6843	0.6763	Ave		0.698 3			0.1000	3.0		20.0			
trans-1,2-Dichloroethene	0.2894 0.2639	0.2673 0.2796	0.2679	0.2765	0.2664	Ave		0.273 n			0.1000	3.4		20.0			
n-Hexane	0.4030 0.3437	0.3498 0.3594	0.3322	0.3493	0.3451	Ave		0.354 6				6.4		20.0			
1,1-Dichloroethane	0.4830 0.4602	0.4589 0.4884	0.4575	0.4710	0.4641	Ave		0.469 n			0.2000	2.6		20.0			
di-Isopropyl ether	0.8707 0.8222	0.8199 0.8737	0.8177	0.8263	0.8211	Ave		0.836 n				3.0		20.0			
2-Chloro-1,3-butadiene	0.4212 0.3770	0.3766 0.4017	0.3735	0.3908	0.3818	Ave		0.389 n				4.4		20.0			
Ethyl t-butyl ether	0.8832 0.8073	0.8055 0.8537	0.7845	0.7972	0.8017	Ave		0.819 n				4.3		20.0			
2-Butanone (MEK)	4.7956 4.5598	4.1839 4.5382	4.6416	4.8314	4.3029	Ave		4.550 5			0.1000	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.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

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								
cis-1,2-Dichloroethene	0.3270 0.2981	0.2961 0.3173	0.3006	0.3083	0.2992	Ave		0.306 7			0.1000	3.8		20.0			
2,2-Dichloropropane	0.4305 0.3652	0.4019 0.3854	0.3738	0.3937	0.3707	Ave		0.388 8				5.8		20.0			
Propionitrile	1.2145 1.2936	1.1256 1.3442	1.2064	1.3273	1.0821	Ave		1.227 7				8.2		20.0			
Methacrylonitrile	4.8532 4.3712	4.0967 4.4966	4.6136	4.7386	4.3259	Ave		4.499 4				5.8		20.0			
Tetrahydrofuran	1.6826 1.3283	1.3930 1.3547	1.4472	1.4477	1.2951	Ave		1.421 2				9.1		20.0			
Bromochloromethane	0.1481 0.1400	0.1374 0.1467	0.1389	0.1403	0.1401	Ave		0.141 6				2.9		20.0			
Chloroform	0.5881 0.4613	0.5052 0.4871	0.4861	0.4827	0.4676	Ave		0.496 9			0.2000	8.6		20.0			
1,1,1-Trichloroethane	0.4449 0.4013	0.4106 0.4261	0.3981	0.4174	0.4071	Ave		0.415 1			0.1000	3.9		20.0			
Cyclohexane	0.4718 0.4406	0.4273 0.4600	0.4208	0.4336	0.4407	Ave		0.442 1			0.1000	4.1		20.0			
Carbon tetrachloride	0.3871 0.3705	0.3621 0.3977	0.3652	0.3762	0.3726	Ave		0.375 9			0.1000	3.3		20.0			
1,1-Dichloropropene	0.3922 0.3602	0.3625 0.3880	0.3540	0.3756	0.3650	Ave		0.371 1				3.9		20.0			
Isobutyl alcohol	0.3538 0.3432	0.3284 0.3349	0.3621	0.3693	0.3357	Ave		0.346 8				4.4		20.0			
Benzene	1.1628 1.0846	1.1106 1.1537	1.0906	1.1210	1.0835	Ave		1.115 3			0.5000	2.9		20.0			
1,2-Dichloroethane	0.2951 0.2777	0.2868 0.2891	0.2852	0.2774	0.2800	Ave		0.284 5			0.1000	2.3		20.0			
t-Amyl methyl ether	0.7819 0.7663	0.7379 0.8031	0.7430	0.7459	0.7505	Ave		0.761 2				3.1		20.0			
n-Heptane	0.3909 0.3669	0.3524 0.3781	0.3497	0.3658	0.3702	Ave		0.367 7				3.9		20.0			
n-Butanol	0.3235 0.3323	0.2857 0.3367	0.3426	0.3301	0.2805	Ave		0.318 8				7.9		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
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

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								
Trichloroethene	0.3303 0.2950	0.3057 0.3146	0.2976	0.3068	0.2994	Ave		0.307 n			0.2000	4.0		20.0			
Methylcyclohexane	0.5227 0.4951	0.4714 0.5181	0.4635	0.4794	0.4946	Ave		0.492 1			0.1000	4.6		20.0			
1,2-Dichloropropane	0.2971 0.2820	0.2788 0.3014	0.2764	0.2823	0.2805	Ave		0.285 5			0.1000	3.4		20.0			
1,4-Dioxane	0.0395 0.0618	0.0672 0.0682	0.0680	0.0659	0.0672	Ave		0.062 6			0.0050	16.6		20.0			
Methyl methacrylate	10.416 9.1635	9.1008 9.2547	9.7568	9.5409	8.8035	Ave		9.433 7				5.6		20.0			
Dibromomethane	0.1512 0.1424	0.1401 0.1538	0.1427	0.1414	0.1463	Ave		0.145 4				3.6		20.0			
Bromodichloromethane	0.3568 0.3421	0.3370 0.3639	0.3301	0.3413	0.3406	Ave		0.344 5			0.2000	3.4		20.0			
2-Nitropropane	2.6961 2.5790	2.2799 2.5796	2.5358	2.6680	2.4500	Ave		2.541 2				5.6		20.0			
1-Bromo-2-chloroethane	0.2753 0.2817	0.2735 0.2955	0.2761	0.2780	0.2742	Ave		0.279 2				2.8		20.0			
cis-1,3-Dichloropropene	0.4553 0.4446	0.4301 0.4743	0.4313	0.4425	0.4435	Ave		0.446 n			0.2000	3.4		20.0			
4-Methyl-2-pentanone (MIBK)	11.974 11.625	10.516 11.968	11.625	12.115	11.627	Ave		11.63 6			0.1000	4.6		20.0			
Toluene	0.9788 0.9331	0.9172 1.0012	0.9292	0.9611	0.9283	Ave		0.949 8			0.4000	3.3		20.0			
trans-1,3-Dichloropropene	0.5104 0.4838	0.4576 0.5208	0.4627	0.4701	0.4828	Ave		0.484 n			0.1000	4.9		20.0			
Ethyl methacrylate	0.4375 0.4174	0.3867 0.4453	0.3970	0.4055	0.4126	Ave		0.414 6				5.1		20.0			
1,1,2-Trichloroethane	0.2927 0.2665	0.2758 0.2823	0.2690	0.2686	0.2690	Ave		0.274 8			0.1000	3.5		20.0			
Tetrachloroethene	0.4744 0.4621	0.4548 0.4969	0.4661	0.4826	0.4651	Ave		0.471 7			0.2000	3.0		20.0			
1,3-Dichloropropane	0.4690 0.4523	0.4406 0.4851	0.4490	0.4455	0.4555	Ave		0.456 7				3.4		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.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

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-Hexanone	8.8225 8.2737	7.7246 8.4716	8.6746	8.8595	8.3711	Ave		8.456 8			0.1000	4.6		20.0			
Dibromochloromethane	0.3588 0.3590	0.3333 0.3860	0.3398	0.3419	0.3525	Ave		0.353 0				5.0		20.0			
1,2-Dibromoethane (EDB)	0.2824 0.2731	0.2648 0.2911	0.2621	0.2640	0.2702	Ave		0.272 5			0.1000	3.9		20.0			
1-Chlorohexane	0.6466 0.5272	0.5534 0.5624	0.5313	0.5469	0.5289	Ave		0.556 7				7.5		20.0			
Chlorobenzene	1.1571 1.1162	1.0915 1.1938	1.1107	1.1567	1.1215	Ave		1.135 3			0.5000	3.1		20.0			
1,1,1,2-Tetrachloroethane	0.4001 0.4025	0.3857 0.4347	0.3840	0.3968	0.3976	Ave		0.400 2				4.2		20.0			
Ethylbenzene	1.9224 1.8304	1.7877 1.9709	1.7971	1.9191	1.8280	Ave		1.865 1			0.1000	3.8		20.0			
m&p-Xylene	0.7759 0.7498	0.7360 0.8104	0.7386	0.7869	0.7487	Ave		0.763 8			0.1000	3.7		20.0			
o-Xylene	0.7515 0.7448	0.7346 0.8003	0.7359	0.7578	0.7456	Ave		0.752 9			0.3000	3.0		20.0			
Styrene	1.2382 1.2467	1.1982 1.3321	1.1949	1.2801	1.2425	Ave		1.247 5			0.3000	3.8		20.0			
Bromoform	0.2459 0.2284	0.2152 0.2472	0.2156	0.2170	0.2237	Ave		0.227 6			0.1000	6.1		20.0			
Isopropylbenzene	1.8031 1.7847	1.7072 1.8937	1.7084	1.8329	1.7787	Ave		1.787 0			0.1000	3.7		20.0			
1,1,2,2-Tetrachloroethane	0.6068 0.5872	0.5716 0.6198	0.5451	0.5750	0.5806	Ave		0.583 7			0.3000	4.2		20.0			
Bromobenzene	0.9296 0.8575	0.8605 0.9004	0.8492	0.9054	0.8552	Ave		0.879 7				3.6		20.0			
trans-1,4-Dichloro-2-butene	0.1362 0.1392	0.1305 0.1503	0.1322	0.1338	0.1376	Ave		0.137 1				4.8		20.0			
1,2,3-Trichloropropane	0.1719 0.1610	0.1598 0.1707	0.1523	0.1587	0.1604	Ave		0.162 1				4.3		20.0			
N-Propylbenzene	3.9018 3.7177	3.6774 3.8595	3.6319	3.9856	3.7000	Ave		3.782 0				3.5		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.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

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-Chlorotoluene	0.8818 0.8288	0.8201 0.8736	0.8124	0.8941	0.8254	Ave		0.848 0				4.0		20.0			
1,3,5-Trimethylbenzene	2.8847 2.7865	2.7302 2.9751	2.6973	2.9179	2.7816	Ave		2.824 8				3.6		20.0			
4-Chlorotoluene	0.8696 0.8598	0.8758 0.9168	0.8548	0.9501	0.8617	Ave		0.884 1				4.0		20.0			
tert-Butylbenzene	0.7054 0.6653	0.6622 0.7038	0.6476	0.7118	0.6589	Ave		0.679 3				3.9		20.0			
Pentachloroethane	0.4790 0.5256	0.4789 0.5657	0.4961	0.5055	0.5133	Ave		0.509 2				5.9		20.0			
1,2,4-Trimethylbenzene	2.9627 2.8923	2.8087 3.0867	2.7716	3.0207	2.8738	Ave		2.916 6				3.9		20.0			
sec-Butylbenzene	3.7571 3.6261	3.5322 3.7402	3.4971	3.7822	3.5781	Ave		3.644 7				3.2		20.0			
1,3-Dichlorobenzene	1.7860 1.7116	1.6674 1.8009	1.6493	1.8529	1.6974	Ave		1.737 9			0.6000	4.4		20.0			
p-Isopropyltoluene	3.3098 3.2669	3.1570 3.4223	3.0817	3.4409	3.2515	Ave		3.275 7				4.0		20.0			
1,4-Dichlorobenzene	1.8205 1.7400	1.7253 1.8468	1.6669	1.9155	1.7307	Ave		1.778 0			0.5000	4.8		20.0			
1,2,3-Trimethylbenzene	1.3484 1.3473	1.3042 1.4340	1.2833	1.3915	1.3153	Ave		1.346 3				3.9		20.0			
Benzyl chloride	0.2711 0.2742	0.2657 0.2880	0.2490	0.2591	0.2654	Ave		0.267 5				4.6		20.0			
n-Butylbenzene	1.6031 1.5487	1.5171 1.6447	1.4863	1.6710	1.5386	Ave		1.572 8				4.3		20.0			
1,2-Dichlorobenzene	1.5745 1.5906	1.5318 1.6792	1.5067	1.6660	1.5587	Ave		1.586 8			0.4000	4.1		20.0			
1,2-Dibromo-3-Chloropropane	0.0861 0.1064	0.0949 0.1124	0.0859	0.0913	0.0995	Ave		0.096 7			0.0500	10.4		20.0			
1,3,5-Trichlorobenzene	1.3418 1.3567	1.2728 1.3951	1.2589	1.4839	1.3289	Ave		1.348 3				5.6		20.0			
1,2,4-Trichlorobenzene	1.0234 1.1465	1.0079 1.1861	0.9735	1.2256	1.0863	Ave		1.092 8			0.2000	8.8		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.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

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								
Hexachlorobutadiene	0.5899 0.5636	0.5432 0.5679	0.5352	0.6144	0.5354	Ave		0.564 2				5.3		20.0			
Naphthalene	1.5358 1.9272	1.5844 1.9841	1.5120	1.7912	1.7723	Ave		1.729 6				11.0		20.0			
1,2,3-Trichlorobenzene	0.7641 0.9153	0.7900 0.9477	0.7566	0.9373	0.8538	Ave		0.852 1				9.7		20.0			
Dibromofluoromethane (Surr)	0.2425 0.2430	0.2415 0.2423	0.2416	0.2417	0.2426	Ave		0.242 2				0.2		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0498 0.0488	0.0486 0.0492	0.0503	0.0505	0.0495	Ave		0.049 5				1.5		20.0			
Toluene-d8 (Surr)	1.2758 1.2893	1.2699 1.2953	1.2698	1.2849	1.2840	Ave		1.281 3				0.8		20.0			
4-Bromofluorobenzene (Surr)	0.4768 0.4844	0.4761 0.4869	0.4803	0.4802	0.4868	Ave		0.481 7				0.9		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.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-517601/13	CU14X12.D
Level 2	IC 410-517601/14	CU14X13.D
Level 3	IC 410-517601/15	CU14X14.D
Level 4	IC 410-517601/16	CU14X15.D
Level 5	IC 410-517601/17	CU14X16.D
Level 6	ICIS 410-517601/18	CU14X17.D
Level 7	IC 410-517601/19	CU14X18.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	16203 734237	37177 1905383	70836	144773	368681	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	17848 809771	44306 2083250	80305	171285	407831	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	17298 808044	42389 2101955	78986	168879	403385	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	19462 862743	43922 2161710	88324	176166	429588	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	13155 563388	29766 1445096	55079	116580	276953	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	10238 462351	23856 1191486	45415	95383	232235	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	25983 1222831	59601 3154184	117409	250225	604485	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	20923 948084	47549 2424884	92461	194248	470564	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	9010 433149	21441 1138331	42704	85154	214368	0.200 10.00	0.500 25.0	1.000	2.00	5.00
Freon 123a	FB	Ave	15704 693949	36239 1803949	66197	139224	342676	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd1 0	Ave	66727 3768167	164124 9594947	325233	660165	1691591	10.0 501	25.1 1253	50.1	100	251
1,1-Dichloroethene	FB	Ave	11595 491747	26536 1279237	48730	101463	243926	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd1 0	Ave	21054 891438	47638 2194483	79646	158143	420322	2.00 100	5.00 250	10.0	20.0	50.0
Freon 113	FB	Ave	10990 532721	26179 1349071	50001	104154	266684	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

Analy Batch No.: 517601

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

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
Methyl iodide	FB	Ave	22454 1063632	52317 2768721	102351	213794	527337	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl bromide	FB	Ave	9390 466648	23488 1232176	46078	91587	230787	0.200 10.0	0.501 25.0	1.00	2.00	5.01
Carbon disulfide	FB	Ave	34643 1662162	80537 4401815	157757	335862	824689	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd1 0	Ave	5569 259596	13658 648417	22365	47717	124256	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	17362 852542	41675 2239904	82764	170737	420870	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	14882 581565	30489 1501358	59785	115124	287772	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd1 0	Ave	15731 651277	38284 1671928	66064	135456	308310	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd1 0	Ave	7944 316143	16396 789839	30413	62467	142694	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tert-butyl ether	FB	Ave	32837 1590845	77651 4071785	152192	303566	761005	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	13081 602335	30060 1561141	59615	122631	299762	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	18213 784492	39337 2006405	73921	154924	388303	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	21831 1050430	51613 2726420	101800	208917	522243	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	39356 1876667	92217 4877622	181962	366516	923885	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	19039 860537	42355 2242733	83112	173359	429652	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	39920 1842578	90588 4765931	174560	353608	902126	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAd1 0	Ave	33312 1720851	78834 4268978	155831	317542	777874	2.00 100	5.00 250	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	14782 680417	33306 1771577	66881	136749	336715	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	19457 833572	45206 2151525	83180	174661	417165	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

Analy Batch No.: 517601

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

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	TBAd10	Ave	16873 976438	42419 2529029	81001	174466	391243	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd10	Ave	33712 1649667	77190 4229919	154888	311440	782044	2.00 100	5.00 250	10.0	20.0	50.0
Tetrahydrofuran	TBAd10	Ave	5844 250650	13124 637151	24293	47576	117062	1.00 50.0	2.50 125	5.00	10.0	25.0
Bromochloromethane	FB	Ave	6692 319608	15450 818941	30909	62213	157650	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroform	FB	Ave	26580 1052795	56816 2719432	108163	214097	526188	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	20109 915814	46177 2378894	88597	185171	458013	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	21324 1005521	48058 2567920	93635	192345	495847	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	17495 845695	40728 2220074	81258	166872	419280	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	17728 822182	40770 2166141	78774	166607	410648	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd10	Ave	12289 647610	30940 1575075	60786	121374	303451	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	52557 2475580	124904 6440925	242685	497277	1219179	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	13336 633799	32250 1614182	63473	123070	315060	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	35339 1748941	82988 4483418	165331	330886	844422	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	17670 837504	39635 2110634	77827	162254	416498	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butanol	TBAd10	Ave	19662 1097174	47106 2771268	100653	189838	443658	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	14930 673226	34377 1756419	66219	136090	336828	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	23624 1129952	53014 2892643	103134	212655	556527	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	13427 643632	31356 1682549	61513	125217	315585	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

Analy Batch No.: 517601

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

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
1,4-Dioxane	TBAd10	Ave	1372	6332	11418	21664	60707	10.0	25.0	50.0	100	250
			116675	320840				500	1250			
Methyl methacrylate	TBAd10	Ave	7235	17148	32756	62707	159150	0.200	0.500	1.00	2.00	5.00
			345830	870579				10.0	25.0			
Dibromomethane	FB	Ave	6836	15752	31762	62717	164594	0.200	0.500	1.00	2.00	5.00
			325035	858709				10.0	25.0			
Bromodichloromethane	FB	Ave	16126	37902	73456	151383	383196	0.200	0.500	1.00	2.00	5.00
			780772	2031557				10.0	25.0			
2-Nitropropane	TBAd10	Ave	9364	21479	42567	87676	221451	1.00	2.50	5.00	10.0	25.0
			486658	1213307				50.0	125			
1-Bromo-2-chloroethane	FB	Ave	12444	30765	61436	123337	308503	0.200	0.500	1.00	2.00	5.00
			642953	1649892				10.0	25.0			
cis-1,3-Dichloropropene	FB	Ave	20580	48372	95985	196295	499072	0.200	0.500	1.00	2.00	5.00
			1014736	2647910				10.0	25.0			
4-Methyl-2-pentanone (MIBK)	TBAd10	Ave	83174	198148	390263	796236	2102012	2.00	5.00	10.0	20.0	50.0
			4387352	11258197				100	250			
Toluene	CBZd5	Ave	34903	81838	162487	334619	823735	0.200	0.500	1.00	2.00	5.00
			1671454	4354894				10.0	25.0			
trans-1,3-Dichloropropene	CBZd5	Ave	18198	40829	80904	163679	428359	0.200	0.500	1.00	2.00	5.00
			866626	2265180				10.0	25.0			
Ethyl methacrylate	CBZd5	Ave	15599	34505	69428	141167	366072	0.200	0.500	1.00	2.00	5.00
			747761	1936916				10.0	25.0			
1,1,2-Trichloroethane	CBZd5	Ave	10436	24613	47044	93498	238660	0.200	0.500	1.00	2.00	5.00
			477370	1228042				10.0	25.0			
Tetrachloroethene	CBZd5	Ave	16915	40580	81502	168026	412715	0.200	0.500	1.00	2.00	5.00
			827702	2161277				10.0	25.0			
1,3-Dichloropropane	CBZd5	Ave	16725	39318	78521	155118	404151	0.200	0.500	1.00	2.00	5.00
			810192	2110086				10.0	25.0			
2-Hexanone	TBAd10	Ave	61284	145548	291226	582286	1513323	2.00	5.00	10.0	20.0	50.0
			3122469	7969148				100	250			
Dibromochloromethane	CBZd5	Ave	12794	29737	59418	119035	312772	0.200	0.500	1.00	2.00	5.00
			643090	1678834				10.0	25.0			
1,2-Dibromoethane (EDB)	CBZd5	Ave	10068	23629	45837	91926	239760	0.200	0.500	1.00	2.00	5.00
			489120	1266157				10.0	25.0			
1-Chlorohexane	CBZd5	Ave	23058	49378	92914	190414	469345	0.200	0.500	1.00	2.00	5.00
			944447	2446377				10.0	25.0			

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

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
Chlorobenzene	CBZd5	Ave	41258 1999402	97393 5192630	194217	402700	995166	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd5	Ave	14265 720956	34413 1890919	67152	138133	352771	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd5	Ave	68548 3278886	159513 8572940	314251	668127	1622005	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd5	Ave	55330 2686365	131343 7050481	258327	547925	1328674	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd5	Ave	26796 1334091	65549 3481281	128688	263830	661618	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Styrene	CBZd5	Ave	44151 2233184	106915 5794215	208946	445685	1102472	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd5	Ave	8768 409184	19199 1075393	37699	75560	198454	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd5	Ave	64296 3196885	152336 8237293	298739	638140	1578257	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd4	Ave	12324 622324	29335 1618375	55271	115336	303835	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd4	Ave	18878 908749	44160 2351082	86113	181597	447526	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	DCBd4	Ave	27662 1474792	66951 3923681	134027	268439	719949	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd4	Ave	3491 170673	8200 445742	15439	31832	83927	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd4	Ave	79239 3940061	188721 10077512	368283	799380	1936140	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd4	Ave	17908 878431	42086 2281014	82375	179328	431939	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd4	Ave	58583 2953220	140114 7768355	273517	585230	1455579	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd4	Ave	17661 911272	44945 2393840	86680	190563	450927	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd4	Ave	14326 705095	33982 1837768	65664	142756	344801	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Pentachloroethane	DCBd4	Ave	9728 557070	24576 1477179	50310	101387	268601	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd4	Ave	60167 3065316	144139 8059731	281050	605865	1503820	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd4	Ave	76301 3842980	181269 9766106	354613	758593	1872383	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

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
1,3-Dichlorobenzene	DCBd4	Ave	36271 1814020	85569 4702331	167242	371643	888228	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd4	Ave	67216 3462326	162015 8936074	312495	690140	1701451	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd4	Ave	36972 1844120	88542 4822201	169030	384186	905642	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd4	Ave	27383 1427855	66932 3744402	130133	279095	688298	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd4	Ave	5506 290573	13638 751893	25252	51961	138873	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd4	Ave	32557 1641310	77859 4294531	150720	335145	805142	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd4	Ave	31976 1685786	78610 4384615	152787	334153	815649	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	1749 112816	4872 293449	8712	18306	52067	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd4	Ave	27250 1437909	65319 3642801	127654	297617	695408	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trichlorobenzene	DCBd4	Ave	20784 1215124	51723 3097155	98721	245810	568421	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd4	Ave	11980 597322	27875 1482860	54266	123230	280192	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd4	Ave	31189 2042535	81310 5180801	153318	359265	927395	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd4	Ave	15517 970054	40540 2474425	76723	187998	446800	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	548025 554691	543106 541031	537659	535995	546017	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	112641 111406	109341 109807	111993	112037	111464	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd5	Ave	2274668 2309511	2266302 2253682	2220438	2236758	2278729	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	850146 867691	849659 847227	839803	835919	863973	10.0 10.0	10.0 10.0	10.0	10.0	10.0

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.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-517601/13	CU14X12.D
Level 2	IC 410-517601/14	CU14X13.D
Level 3	IC 410-517601/15	CU14X14.D
Level 4	IC 410-517601/16	CU14X15.D
Level 5	IC 410-517601/17	CU14X16.D
Level 6	ICIS 410-517601/18	CU14X17.D
Level 7	IC 410-517601/19	CU14X18.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	8.0 2.8	-0.5	-4.1	-1.7	-1.3	-3.1	50 30	30	30	30	30	30
Chloromethane	5.3 -0.5	5.0	-3.8	2.9	-3.4	-5.4	50 30	30	30	30	30	30
Vinyl chloride	3.7 2.0	2.1	-3.9	3.1	-2.9	-4.1	50 30	30	30	30	30	30
1,3-Butadiene	9.1 -1.9	-1.0	0.6	0.6	-3.2	-4.2	50 30	30	30	30	30	30
Bromomethane	12.1 -0.3	1.9	-4.7	1.2	-5.2	-5.0	50 30	30	30	30	30	30
Chloroethane	7.1 0.9	0.3	-3.5	1.7	-2.4	-4.2	50 30	30	30	30	30	30
Dichlorofluoromethane	4.9 3.1	-3.3	-3.7	3.0	-1.9	-2.2	50 30	30	30	30	30	30
Trichlorofluoromethane	7.8 1.1	-1.6	-3.3	1.9	-2.6	-3.3	50 30	30	30	30	30	30
Ethyl ether	2.8 5.1	-1.7	-1.1	-1.1	-1.8	-2.2	50 30	30	30	30	30	30
Freon 123a	9.9 2.2	1.9	-5.9	-0.7	-3.7	-3.8	50 30	30	30	30	30	30
Acrolein	-0.5 5.6	-9.8	0.3	4.0	-3.1	3.4	50 30	30	30	30	30	30
1,1-Dichloroethene	12.1 0.1	3.1	-4.3	0.0	-5.3	-5.8	50 30	30	30	30	30	30
Acetone	22.2 -5.9	2.0	-4.3	-3.0	-6.2	-4.7	50 30	30	30	30	30	30
Freon 113	3.3 2.7	-1.1	-4.5	-0.2	0.7	-0.8	50 30	30	30	30	30	30
Methyl iodide	4.3 4.1	-2.3	-3.4	1.2	-1.6	-2.2	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.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

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
Ethyl bromide	-0.4 5.8	0.1	-0.7	-1.0	-1.7	-2.0	50 30	30	30	30	30	30
Carbon disulfide	3.2 6.2	-3.6	-4.5	2.0	-1.3	-1.9	50 30	30	30	30	30	30
Methyl acetate	12.6 -3.2	1.8	-6.4	2.0	-3.5	-3.4	50 30	30	30	30	30	30
Allyl chloride	1.1 5.6	-2.5	-2.1	1.3	-1.6	-1.7	50 30	30	30	30	30	30
Methylene Chloride	20.8 -1.3	-0.5	-1.4	-4.8	-6.2	-6.5	50 30	30	30	30	30	30
t-Butyl alcohol	17.1 -8.1	5.1	1.8	6.6	-11.8	-10.7	50 30	30	30	30	30	30
Acrylonitrile	26.3 -7.2	-3.9	0.1	5.0	-12.8	-7.5	50 30	30	30	30	30	30
Methyl tert-butyl ether	4.0 4.5	-1.1	-2.1	-2.0	-3.1	-0.2	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	6.0 2.4	-2.1	-1.9	1.3	-2.4	-3.3	50 30	30	30	30	30	30
n-Hexane	13.6 1.3	-1.4	-6.3	-1.5	-2.7	-3.1	50 30	30	30	30	30	30
1,1-Dichloroethane	3.0 4.1	-2.2	-2.5	0.4	-1.0	-1.9	50 30	30	30	30	30	30
di-Isopropyl ether	4.2 4.5	-1.9	-2.2	-1.2	-1.8	-1.6	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	8.3 3.3	-3.2	-4.0	0.5	-1.8	-3.1	50 30	30	30	30	30	30
Ethyl t-butyl ether	7.8 4.2	-1.7	-4.2	-2.7	-2.1	-1.4	50 30	30	30	30	30	30
2-Butanone (MEK)	5.4 -0.3	-8.1	2.0	6.2	-5.4	0.2	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	6.6 3.5	-3.4	-2.0	0.5	-2.4	-2.8	50 30	30	30	30	30	30
2,2-Dichloropropane	10.7 -0.9	3.4	-3.8	1.3	-4.6	-6.1	50 30	30	30	30	30	30
Propionitrile	-1.1 9.5	-8.3	-1.7	8.1	-11.9	5.4	50 30	30	30	30	30	30
Methacrylonitrile	7.9 -0.1	-9.0	2.5	5.3	-3.9	-2.8	50 30	30	30	30	30	30
Tetrahydrofuran	18.4 -4.7	-2.0	1.8	1.9	-8.9	-6.5	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.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

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
Bromochloromethane	4.5 3.6	-3.0	-1.9	-1.0	-1.1	-1.1	50 30	30	30	30	30	30
Chloroform	18.4 -2.0	1.7	-2.2	-2.9	-5.9	-7.2	50 30	30	30	30	30	30
1,1,1-Trichloroethane	7.2 2.7	-1.1	-4.1	0.6	-1.9	-3.3	50 30	30	30	30	30	30
Cyclohexane	6.7 4.0	-3.3	-4.8	-1.9	-0.3	-0.3	50 30	30	30	30	30	30
Carbon tetrachloride	3.0 5.8	-3.7	-2.9	0.1	-0.9	-1.4	50 30	30	30	30	30	30
1,1-Dichloropropene	5.7 4.6	-2.3	-4.6	1.2	-1.6	-2.9	50 30	30	30	30	30	30
Isobutyl alcohol	2.0 -3.4	-5.3	4.4	6.5	-3.2	-1.0	50 30	30	30	30	30	30
Benzene	4.3 3.4	-0.4	-2.2	0.5	-2.8	-2.7	50 30	30	30	30	30	30
1,2-Dichloroethane	3.7 1.6	0.8	0.3	-2.5	-1.6	-2.4	50 30	30	30	30	30	30
t-Amyl methyl ether	2.7 5.5	-3.1	-2.4	-2.0	-1.4	0.7	50 30	30	30	30	30	30
n-Heptane	6.3 2.8	-4.2	-4.9	-0.5	0.7	-0.2	50 30	30	30	30	30	30
n-Butanol	1.5 5.6	-10.4	7.5	3.6	-12.0	4.2	50 30	30	30	30	30	30
Trichloroethene	7.6 2.5	-0.4	-3.1	-0.1	-2.5	-3.9	50 30	30	30	30	30	30
Methylcyclohexane	6.2 5.3	-4.2	-5.8	-2.6	0.5	0.6	50 30	30	30	30	30	30
1,2-Dichloropropane	4.1 5.6	-2.3	-3.2	-1.1	-1.8	-1.2	50 30	30	30	30	30	30
1,4-Dioxane	-36.8 9.1	7.4	8.7	5.4	7.4	-1.2	50 30	30	30	30	30	30
Methyl methacrylate	10.4 -1.9	-3.5	3.4	1.1	-6.7	-2.9	50 30	30	30	30	30	30
Dibromomethane	4.0 5.8	-3.7	-1.8	-2.8	0.6	-2.1	50 30	30	30	30	30	30
Bromodichloromethane	3.6 5.6	-2.2	-4.2	-0.9	-1.2	-0.7	50 30	30	30	30	30	30
2-Nitropropane	6.1 1.5	-10.3	-0.2	5.0	-3.6	1.5	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.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

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-Bromo-2-chloroethane	-1.4 5.8	-2.0	-1.1	-0.4	-1.8	0.9	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	2.1 6.4	-3.6	-3.3	-0.8	-0.5	-0.3	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	2.9 2.9	-9.6	-0.1	4.1	-0.1	-0.1	50 30	30	30	30	30	30
Toluene	3.1 5.4	-3.4	-2.2	1.2	-2.3	-1.8	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	5.4 7.6	-5.5	-4.4	-2.9	-0.3	0.0	50 30	30	30	30	30	30
Ethyl methacrylate	5.5 7.4	-6.7	-4.2	-2.2	-0.5	0.7	50 30	30	30	30	30	30
1,1,2-Trichloroethane	6.5 2.7	0.4	-2.1	-2.3	-2.1	-3.0	50 30	30	30	30	30	30
Tetrachloroethene	0.6 5.3	-3.6	-1.2	2.3	-1.4	-2.0	50 30	30	30	30	30	30
1,3-Dichloropropane	2.7 6.2	-3.5	-1.7	-2.4	-0.3	-1.0	50 30	30	30	30	30	30
2-Hexanone	4.3 0.2	-8.7	2.6	4.8	-1.0	-2.2	50 30	30	30	30	30	30
Dibromochloromethane	1.6 9.3	-5.6	-3.7	-3.2	-0.2	1.7	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	3.6 6.8	-2.8	-3.8	-3.1	-0.9	0.2	50 30	30	30	30	30	30
1-Chlorohexane	16.2 1.0	-0.6	-4.6	-1.8	-5.0	-5.3	50 30	30	30	30	30	30
Chlorobenzene	1.9 5.1	-3.9	-2.2	1.9	-1.2	-1.7	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	0.0 8.6	-3.6	-4.0	-0.9	-0.7	0.6	50 30	30	30	30	30	30
Ethylbenzene	3.1 5.7	-4.1	-3.6	2.9	-2.0	-1.9	50 30	30	30	30	30	30
m&p-Xylene	1.6 6.1	-3.6	-3.3	3.0	-2.0	-1.8	50 30	30	30	30	30	30
o-Xylene	-0.2 6.3	-2.4	-2.3	0.6	-1.0	-1.1	50 30	30	30	30	30	30
Styrene	-0.7 6.8	-4.0	-4.2	2.6	-0.4	-0.1	50 30	30	30	30	30	30
Bromoform	8.1 8.6	-5.5	-5.3	-4.6	-1.7	0.4	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.: 410-181527-1 Analy Batch No.: 517601
Environment Testing, LLC

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

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
Isopropylbenzene	0.9 6.0	-4.5	-4.4	2.6	-0.5	-0.1	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	4.0 6.2	-2.1	-6.6	-1.5	-0.5	0.6	50 30	30	30	30	30	30
Bromobenzene	5.7 2.4	-2.2	-3.5	2.9	-2.8	-2.5	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-0.6 9.6	-4.8	-3.6	-2.4	0.4	1.5	50 30	30	30	30	30	30
1,2,3-Trichloropropane	6.0 5.3	-1.4	-6.1	-2.1	-1.1	-0.7	50 30	30	30	30	30	30
N-Propylbenzene	3.2 2.0	-2.8	-4.0	5.4	-2.2	-1.7	50 30	30	30	30	30	30
2-Chlorotoluene	4.0 3.0	-3.3	-4.2	5.4	-2.7	-2.3	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	2.1 5.3	-3.3	-4.5	3.3	-1.5	-1.4	50 30	30	30	30	30	30
4-Chlorotoluene	-1.6 3.7	-0.9	-3.3	7.5	-2.5	-2.7	50 30	30	30	30	30	30
tert-Butylbenzene	3.8 3.6	-2.5	-4.7	4.8	-3.0	-2.1	50 30	30	30	30	30	30
Pentachloroethane	-5.9 11.1	-5.9	-2.6	-0.7	0.8	3.2	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	1.6 5.8	-3.7	-5.0	3.6	-1.5	-0.8	50 30	30	30	30	30	30
sec-Butylbenzene	3.1 2.6	-3.1	-4.1	3.8	-1.8	-0.5	50 30	30	30	30	30	30
1,3-Dichlorobenzene	2.8 3.6	-4.1	-5.1	6.6	-2.3	-1.5	50 30	30	30	30	30	30
p-Isopropyltoluene	1.0 4.5	-3.6	-5.9	5.0	-0.7	-0.3	50 30	30	30	30	30	30
1,4-Dichlorobenzene	2.4 3.9	-3.0	-6.2	7.7	-2.7	-2.1	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	0.2 6.5	-3.1	-4.7	3.4	-2.3	0.1	50 30	30	30	30	30	30
Benzyl chloride	1.4 7.6	-0.7	-6.9	-3.2	-0.8	2.5	50 30	30	30	30	30	30
n-Butylbenzene	1.9 4.6	-3.5	-5.5	6.2	-2.2	-1.5	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-0.8 5.8	-3.5	-5.0	5.0	-1.8	0.2	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.: 410-181527-1 Analy Batch No.: 517601
 Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2024 22:28 Calibration End Date: 06/15/2024 00:45 Calibration ID: 62906

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
1,2-Dibromo-3-Chloropropane	-10.9 16.3	-1.8	-11.1	-5.6	2.9	10.1	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-0.5 3.5	-5.6	-6.6	10.1	-1.4	0.6	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-6.3 8.5	-7.8	-10.9	12.2	-0.6	4.9	50 30	30	30	30	30	30
Hexachlorobutadiene	4.6 0.7	-3.7	-5.2	8.9	-5.1	-0.1	50 30	30	30	30	30	30
Naphthalene	-11.2 14.7	-8.4	-12.6	3.6	2.5	11.4	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-10.3 11.2	-7.3	-11.2	10.0	0.2	7.4	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	0.1 0.0	-0.3	-0.2	-0.2	0.2	0.4	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	0.6 -0.8	-1.9	1.6	2.0	0.0	-1.5	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.4 1.1	-0.9	-0.9	0.3	0.2	0.6	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-1.0 1.1	-1.2	-0.3	-0.3	1.1	0.6	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X12.D
 Lims ID: IC std1 0.2
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 14-Jun-2024 22:28:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0116724-013
 Misc. Info.: IC STD.2 LG
 Operator ID: MEC29284 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 17-Jun-2024 19:28:19 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1606

First Level Reviewer: UKEK

Date: 17-Jun-2024 19:28:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.799	1.799	0.000	32	16203	0.2000	0.2159	
5 Chloromethane	50	1.976	1.982	-0.006	99	17848	0.2000	0.2105	M
6 Vinyl chloride	62	2.073	2.085	-0.012	97	17298	0.2000	0.2073	
7 Butadiene	39	2.079	2.085	-0.006	83	19462	0.2000	0.2182	M
9 Bromomethane	94	2.390	2.396	-0.006	90	13155	0.2000	0.2241	
10 Chloroethane	64	2.439	2.445	-0.006	97	10238	0.2000	0.2142	
11 Dichlorofluoromethane	67	2.689	2.689	0.000	62	25983	0.2000	0.2099	M
13 Pentane	43	2.726	2.738	-0.012	94	20007	0.2000	0.2414	
12 Trichlorofluoromethane	101	2.744	2.744	0.000	91	20923	0.2000	0.2155	M
14 Ethyl ether	59	2.915	2.921	-0.006	91	9010	0.2000	0.2055	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.012	3.018	-0.006	86	15704	0.2000	0.2198	M
17 Acrolein	56	3.067	3.073	-0.006	99	66727	10.0	9.97	
18 1,1-Dichloroethene	96	3.195	3.195	0.000	96	11595	0.2000	0.2242	
20 Acetone	43	3.219	3.219	0.000	99	21054	2.00	2.44	M
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.238	3.244	-0.006	89	10990	0.2000	0.2066	
24 Isopropyl alcohol	45	3.384	3.366	0.018	37	7374	4.00	4.16	
22 Iodomethane	142	3.360	3.372	-0.012	96	22454	0.2000	0.2086	
23 Ethyl bromide	108	3.390	3.396	-0.006	97	9390	0.2003	0.1995	
25 Carbon disulfide	76	3.451	3.463	-0.012	97	34643	0.2000	0.2064	M
26 Methyl acetate	43	3.591	3.585	0.006	39	5569	0.2000	0.2252	
29 3-Chloro-1-propene	41	3.610	3.616	-0.006	92	17362	0.2000	0.2021	
30 Methylene Chloride	84	3.774	3.786	-0.012	62	14882	0.2000	0.2416	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.780	3.798	-0.018	96	173659	50.0	50.0	
32 2-Methyl-2-propanol	59	3.902	3.908	-0.006	96	15731	4.00	4.69	
33 Acrylonitrile	53	4.103	4.091	0.012	96	7944	0.5000	0.6317	
35 trans-1,2-Dichloroethene	96	4.146	4.146	0.000	98	13081	0.2000	0.2120	
34 Methyl tert-butyl ether	73	4.146	4.146	0.000	92	32837	0.2000	0.2081	
36 Hexane	57	4.549	4.561	-0.013	93	18213	0.2000	0.2273	
37 1,1-Dichloroethane	63	4.798	4.804	-0.006	96	21831	0.2000	0.2060	
39 Isopropyl ether	45	4.872	4.871	0.001	95	39356	0.2000	0.2083	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.914	4.914	0.000	89	19039	0.2000	0.2166	
41 Tert-butyl ethyl ether	59	5.396	5.414	-0.018	97	39920	0.2000	0.2157	M
42 2-Butanone (MEK)	43	5.615	5.615	0.000	100	33312	2.00	2.11	
43 cis-1,2-Dichloroethene	96	5.646	5.652	-0.006	81	14782	0.2000	0.2133	
44 2,2-Dichloropropane	77	5.670	5.670	0.000	78	19457	0.2000	0.2215	
45 Propionitrile	54	5.719	5.719	0.000	98	16873	4.00	3.96	
47 Methacrylonitrile	67	5.932	5.926	0.006	87	33712	2.00	2.16	
49 Tetrahydrofuran	71	5.993	5.981	0.012	76	5844	1.00	1.18	
48 Chlorobromomethane	128	5.993	5.987	0.006	74	6692	0.2000	0.2091	M
50 Chloroform	83	6.146	6.146	0.000	92	26580	0.2000	0.2367	
S 52 1,2-Dichloroethene, Total	100				0			0.4253	
\$ 54 Dibromofluoromethane (Surr)	113	6.365	6.365	0.000	94	548025	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.359	6.371	-0.012	39	20109	0.2000	0.2144	
55 Cyclohexane	56	6.457	6.463	-0.006	89	21324	0.2000	0.2134	
57 1,1-Dichloropropene	75	6.591	6.585	0.007	95	17728	0.2000	0.2114	
56 Carbon tetrachloride	117	6.579	6.585	-0.005	89	17495	0.2000	0.2059	
58 Isobutyl alcohol	41	6.780	6.780	0.000	93	12289	10.0	10.2	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.810	6.822	-0.012	99	112641	10.0	10.1	M
60 Benzene	78	6.841	6.853	-0.012	95	52557	0.2000	0.2085	
61 1,2-Dichloroethane	62	6.920	6.926	-0.006	96	13336	0.2000	0.2074	
64 Tert-amyl methyl ether	73	7.054	7.060	-0.006	99	35339	0.2000	0.2054	
* 65 Fluorobenzene (IS)	96	7.261	7.267	-0.006	99	2259919	10.0	10.0	
66 n-Heptane	43	7.280	7.286	-0.006	36	17670	0.2000	0.2126	
67 n-Butanol	56	7.682	7.682	0.000	90	19662	17.5	17.8	
68 Trichloroethene	95	7.755	7.755	0.000	97	14930	0.2000	0.2152	
69 Methylcyclohexane	83	8.054	8.066	-0.012	84	23624	0.2000	0.2124	
70 1,2-Dichloropropane	63	8.097	8.096	0.001	96	13427	0.2000	0.2081	
71 2-ethoxy-2-methyl butane	87	8.115	8.127	-0.012	92	21302	0.2000	0.2031	
74 1,4-Dioxane	88	8.182	8.194	-0.012	34	1372	10.0	6.32	M
73 Methyl methacrylate	69	8.200	8.200	0.000	91	7235	0.2000	0.2208	
72 Dibromomethane	93	8.206	8.206	0.000	94	6836	0.2000	0.2080	
76 Dichlorobromomethane	83	8.456	8.456	0.000	99	16126	0.2000	0.2071	
77 2-Nitropropane	41	8.743	8.743	0.000	97	9364	1.00	1.06	
78 1-Bromo-2-chloroethane	63	8.846	8.846	0.000	97	12444	0.2000	0.1972	
80 cis-1,3-Dichloropropene	75	9.029	9.029	0.000	96	20580	0.2000	0.2042	
82 4-Methyl-2-pentanone (MIBK)	43	9.231	9.230	0.001	95	83174	2.00	2.06	
\$ 83 Toluene-d8 (Surr)	98	9.359	9.358	0.001	93	2274668	10.0	9.96	
84 Toluene	92	9.438	9.444	-0.006	98	34903	0.2000	0.2061	
85 trans-1,3-Dichloropropene	75	9.730	9.730	0.000	91	18198	0.2000	0.2109	
86 Ethyl methacrylate	69	9.804	9.803	0.001	89	15599	0.2000	0.2110	
87 1,1,2-Trichloroethane	97	9.938	9.944	-0.006	91	10436	0.2000	0.2130	
88 Tetrachloroethene	166	10.023	10.023	0.000	97	16915	0.2000	0.2011	
S 107 1,3-Dichloropropene, Total	100				0			0.4151	
89 1,3-Dichloropropane	76	10.108	10.114	-0.006	89	16725	0.2000	0.2054	
106 2-Hexanone	43	10.182	10.181	0.001	96	61284	2.00	2.09	
108 Chlorodibromomethane	129	10.334	10.334	0.000	89	12794	0.2000	0.2033	
110 Ethylene Dibromide	107	10.444	10.444	0.000	100	10068	0.2000	0.2072	
* 111 Chlorobenzene-d5 (IS)	117	10.901	10.901	0.000	84	1782883	10.0	10.0	M
112 1-Chlorohexane	91	10.919	10.919	0.000	77	23058	0.2000	0.2323	
113 Chlorobenzene	112	10.925	10.925	0.000	96	41258	0.2000	0.2038	
114 1,1,1,2-Tetrachloroethane	131	11.017	11.017	0.000	96	14265	0.2000	0.1999	
115 Ethylbenzene	91	11.023	11.023	0.000	98	68548	0.2000	0.2061	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.145	11.145	0.000	97	55330	0.4000	0.4063	
S 117 Xylenes, Total	106				0			0.6059	
118 o-Xylene	106	11.486	11.486	0.000	95	26796	0.2000	0.1996	
119 Styrene	104	11.498	11.498	0.000	95	44151	0.2000	0.1985	
120 Bromoform	173	11.657	11.657	0.000	95	8768	0.2000	0.2161	
121 Isopropylbenzene	105	11.797	11.797	0.000	95	64296	0.2000	0.2018	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.937	11.943	-0.006	94	850146	10.0	9.90	
126 1,1,2,2-Tetrachloroethane	83	12.053	12.053	0.000	75	12324	0.2000	0.2079	
125 Bromobenzene	156	12.059	12.059	0.000	87	18878	0.2000	0.2113	
127 trans-1,4-Dichloro-2-butene	53	12.084	12.083	0.001	92	27662	2.00	1.99	
128 1,2,3-Trichloropropane	110	12.096	12.096	0.000	78	3491	0.2000	0.2121	
129 N-Propylbenzene	91	12.132	12.138	-0.006	98	79239	0.2000	0.2063	
130 2-Chlorotoluene	126	12.206	12.211	-0.005	98	17908	0.2000	0.2080	
131 1,3,5-Trimethylbenzene	105	12.279	12.279	0.000	94	58583	0.2000	0.2042	
132 4-Chlorotoluene	126	12.303	12.303	0.000	97	17661	0.2000	0.1967	
133 tert-Butylbenzene	134	12.523	12.522	0.001	92	14326	0.2000	0.2077	
134 Pentachloroethane	167	12.553	12.553	0.000	79	9728	0.2000	0.1882	
135 1,2,4-Trimethylbenzene	105	12.565	12.565	0.000	96	60167	0.2000	0.2032	
136 sec-Butylbenzene	105	12.693	12.693	0.000	93	76301	0.2000	0.2062	
137 1,3-Dichlorobenzene	146	12.785	12.785	0.000	98	36271	0.2000	0.2055	
138 4-Isopropyltoluene	119	12.803	12.803	0.000	97	67216	0.2000	0.2021	
* 139 1,4-Dichlorobenzene-d4	152	12.846	12.845	0.001	93	1015421	10.0	10.0	M
140 1,4-Dichlorobenzene	146	12.864	12.864	0.000	96	36972	0.2000	0.2048	
141 1,2,3-Trimethylbenzene	120	12.876	12.876	0.000	97	27383	0.2000	0.2003	
142 Benzyl chloride	126	12.943	12.943	0.000	98	5506	0.2000	0.2027	
145 p-Diethylbenzene	119	13.077	13.083	-0.006	94	41707	0.2000	0.2012	
143 n-Butylbenzene	92	13.102	13.102	0.000	97	32557	0.2000	0.2039	
144 1,2-Dichlorobenzene	146	13.126	13.126	0.000	98	31976	0.2000	0.1985	
148 1,2-Dibromo-3-Chloropropane	155	13.681	13.681	0.000	86	1749	0.2000	0.1782	
149 1,3,5-Trichlorobenzene	180	13.809	13.803	0.006	97	27250	0.2000	0.1990	
150 1,2,4-Trichlorobenzene	180	14.236	14.235	0.001	94	20784	0.2000	0.1873	
151 Hexachlorobutadiene	225	14.321	14.321	0.000	96	11980	0.2000	0.2091	
152 Naphthalene	128	14.419	14.418	0.001	96	31189	0.2000	0.1776	
153 1,2,3-Trichlorobenzene	180	14.565	14.565	0.000	95	15517	0.2000	0.1793	
154 2-Methylnaphthalene	142	15.174	15.174	0.000	92	11416	0.2000	0.1468	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00133

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00140

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00214

Amount Added: 2.00

Units: uL

MSV_HP25_ISSS_00090

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 17-Jun-2024 19:28:19

Chrom Revision: 2.3 03-Jun-2024 20:58:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X12.D

Injection Date: 14-Jun-2024 22:28:30

Instrument ID: 10193

Operator ID: MEC29284

Lims ID: IC std1 0.2

Worklist Smp#: 13

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

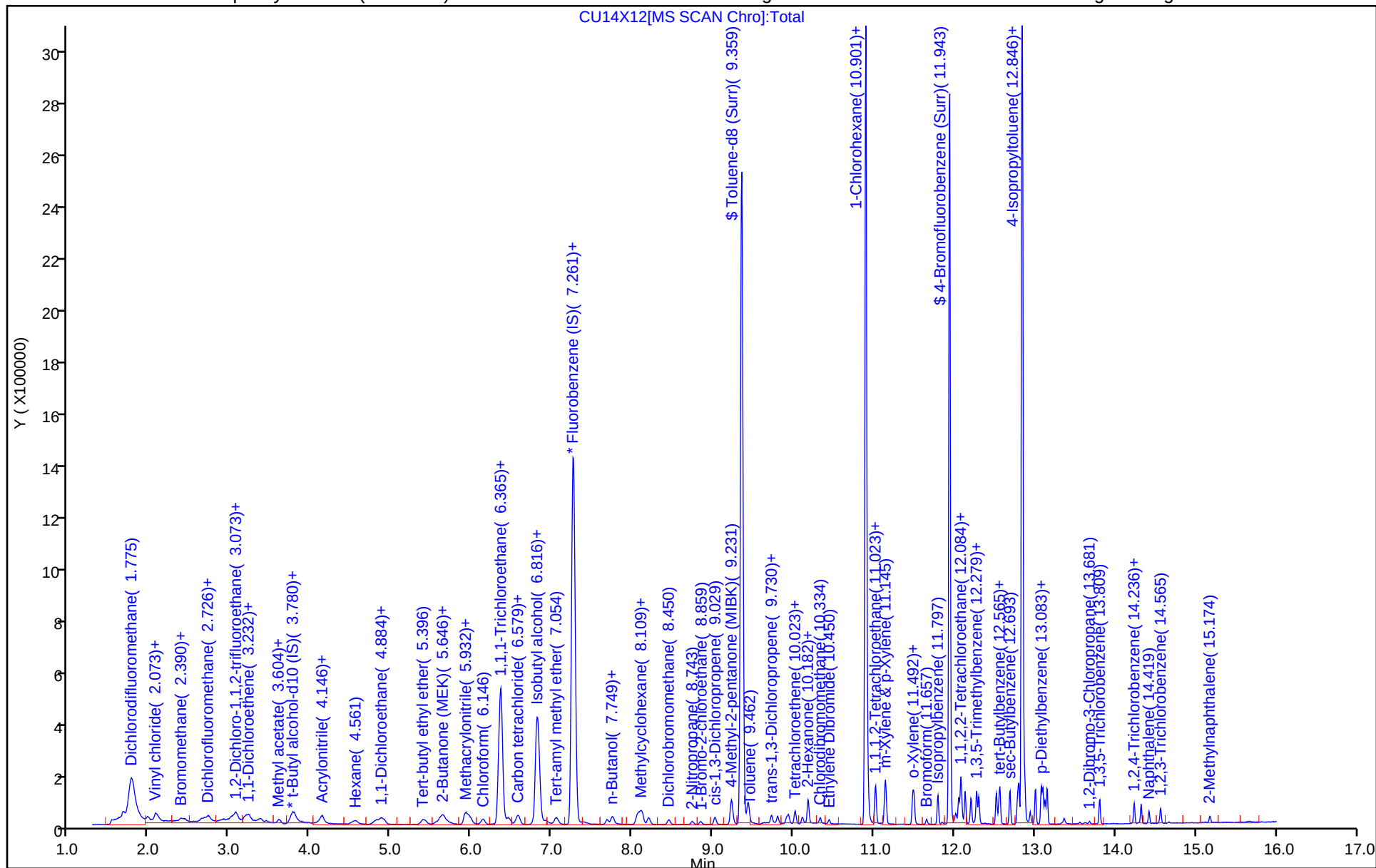
ALS Bottle#: 12

Method: MSV_10193_25mL

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

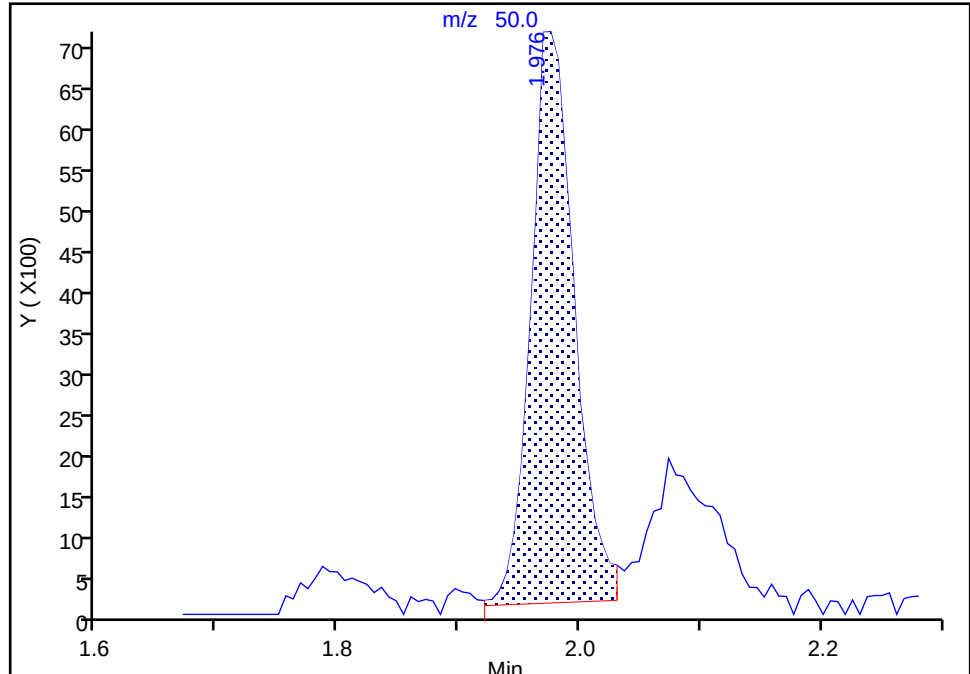
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X12.D
Injection Date: 14-Jun-2024 22:28:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

5 Chloromethane, CAS: 74-87-3

Signal: 1

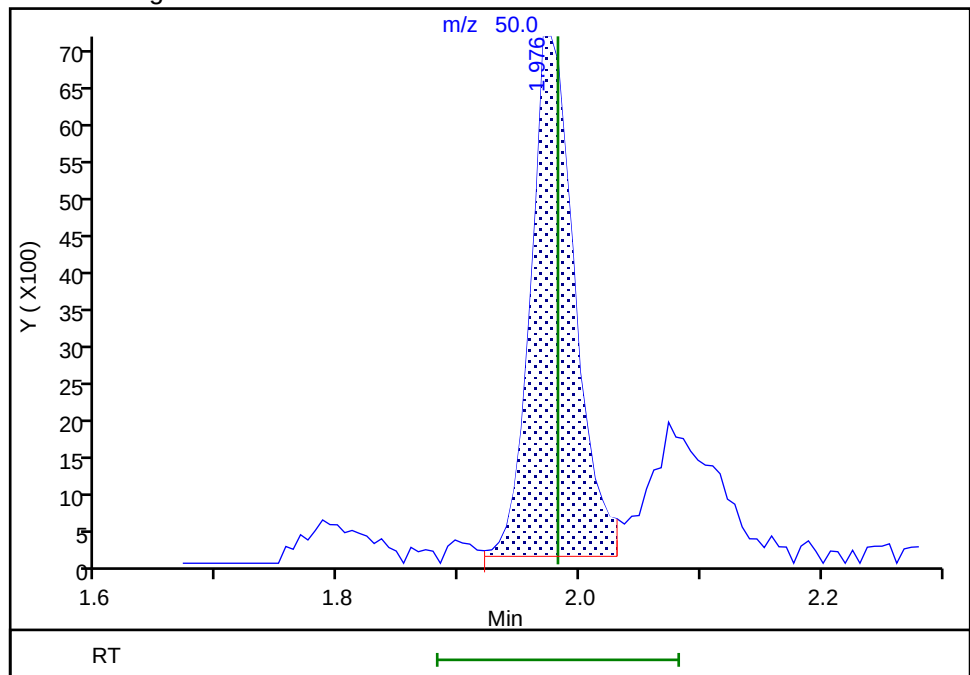
RT: 1.98
Area: 17542
Amount: 0.207429
Amount Units: ug/l

Processing Integration Results



RT: 1.98
Area: 17848
Amount: 0.210503
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:17:52 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

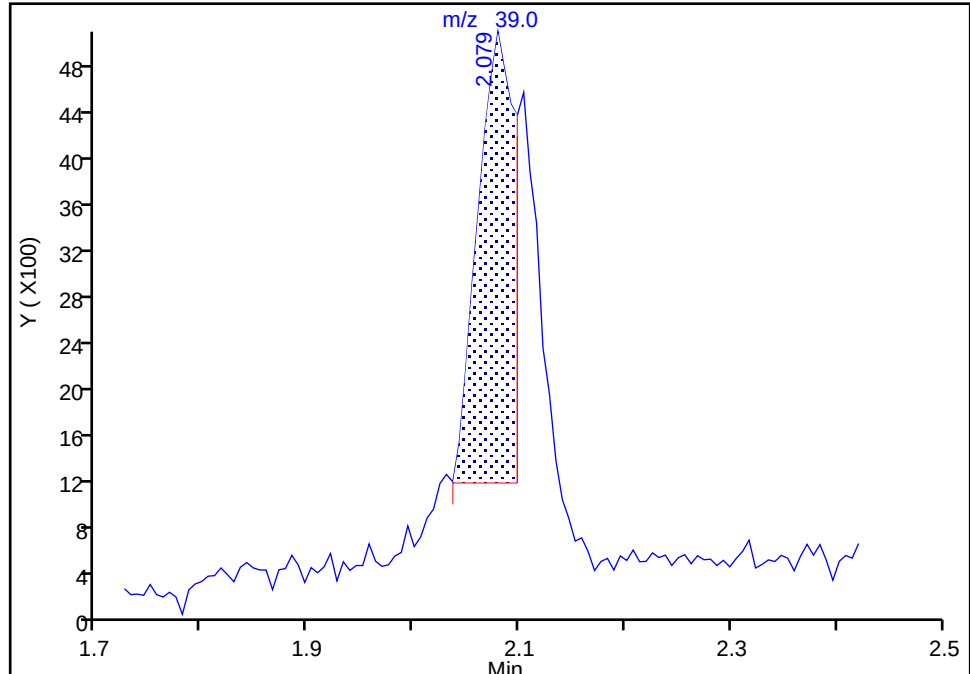
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X12.D
Injection Date: 14-Jun-2024 22:28:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

7 Butadiene, CAS: 106-99-0

Signal: 1

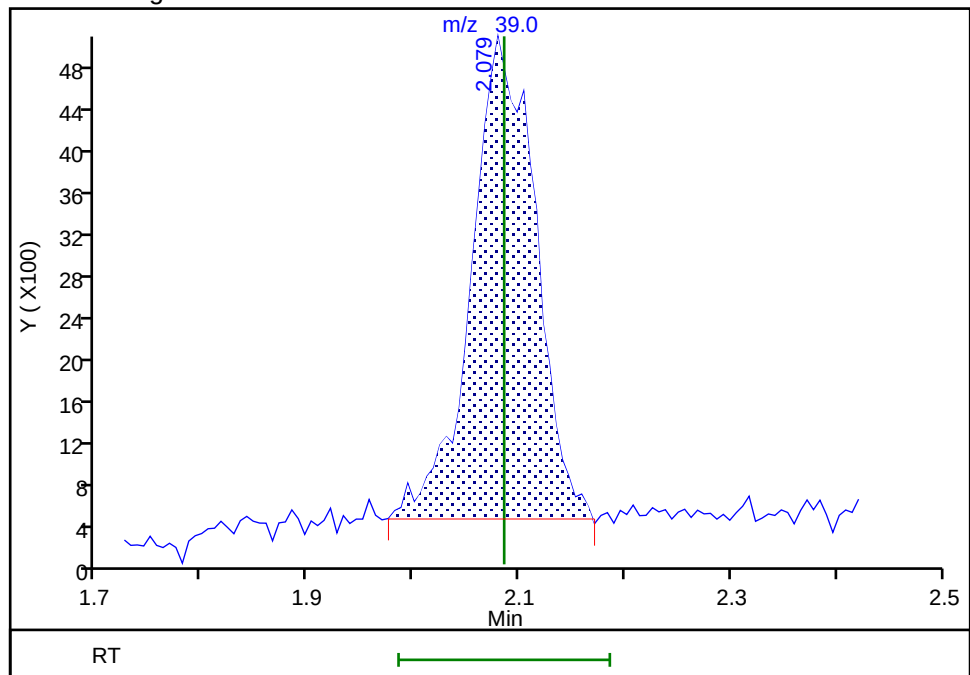
RT: 2.08
Area: 9455
Amount: 0.134196
Amount Units: ug/l

Processing Integration Results



RT: 2.08
Area: 19462
Amount: 0.218243
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:18:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

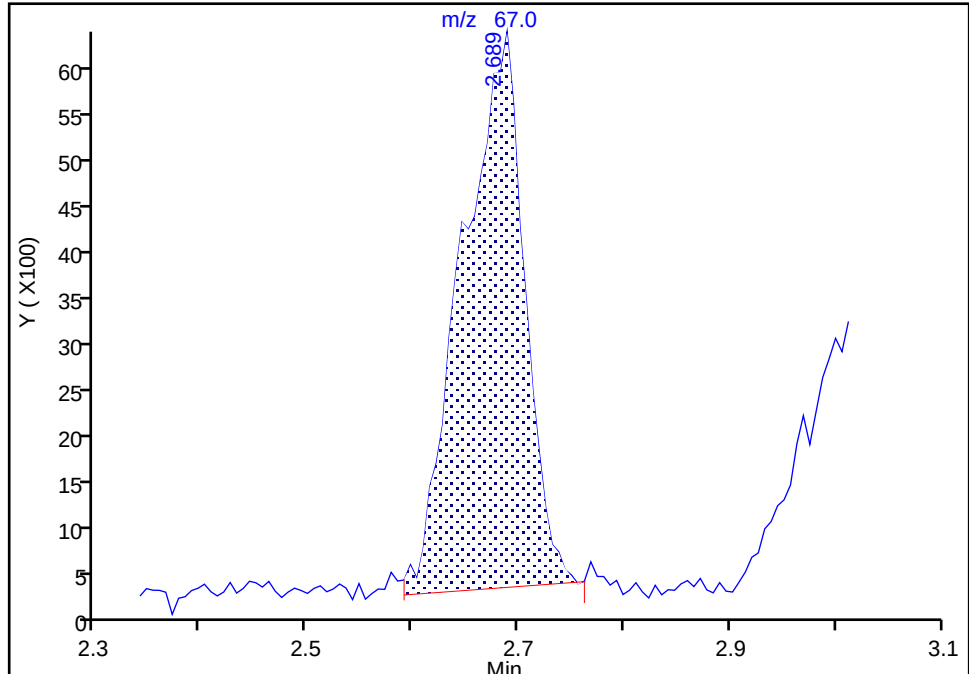
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X12.D
Injection Date: 14-Jun-2024 22:28:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

11 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

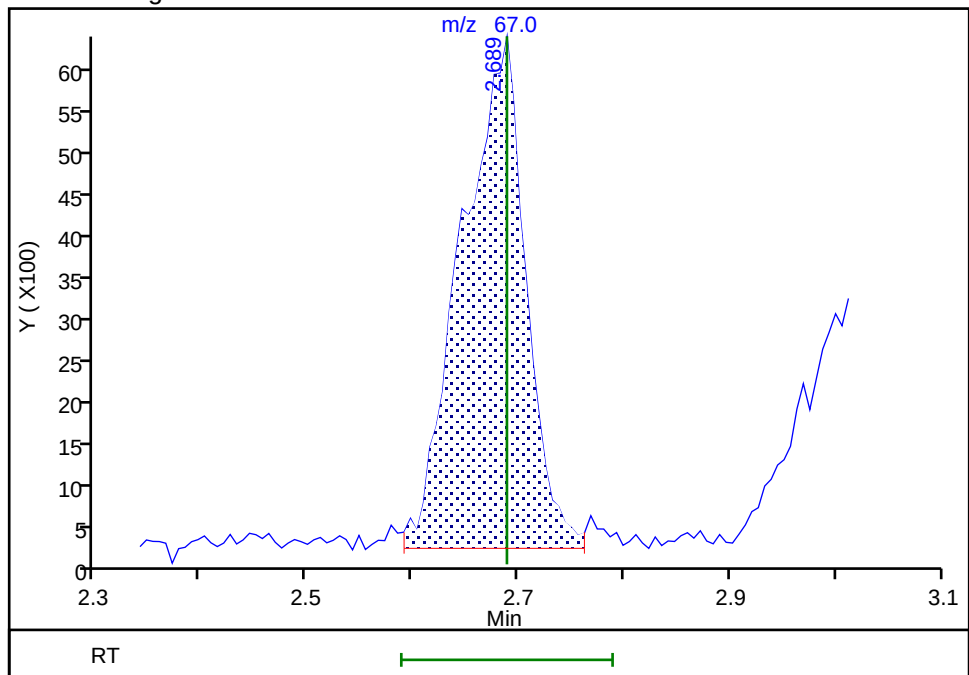
RT: 2.69
Area: 24710
Amount: 0.201080
Amount Units: ug/l

Processing Integration Results



RT: 2.69
Area: 25983
Amount: 0.209887
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:18:26 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

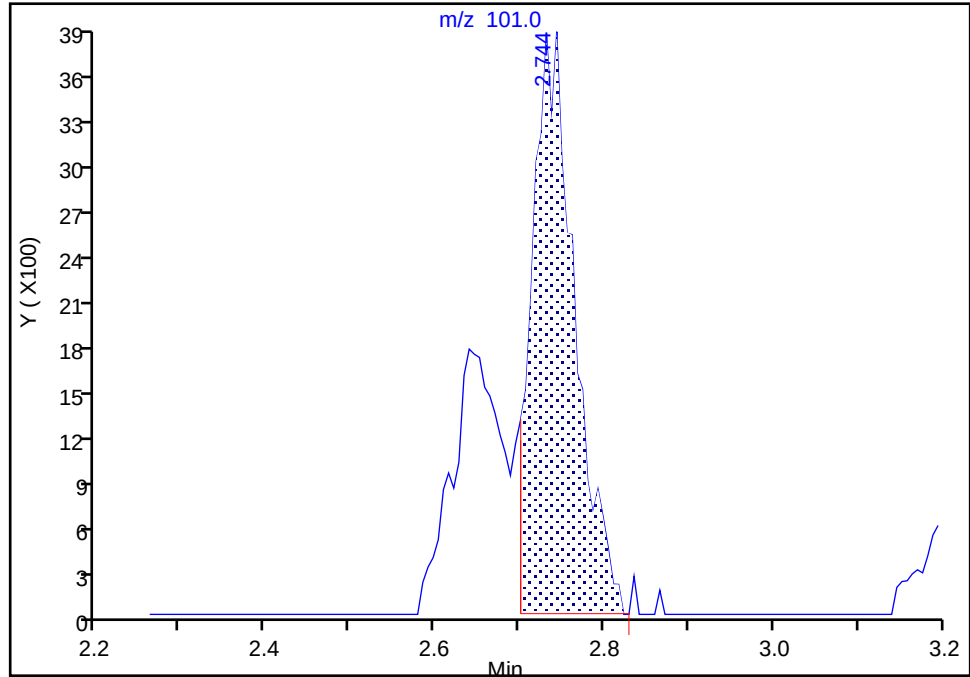
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X12.D
Injection Date: 14-Jun-2024 22:28:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

12 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

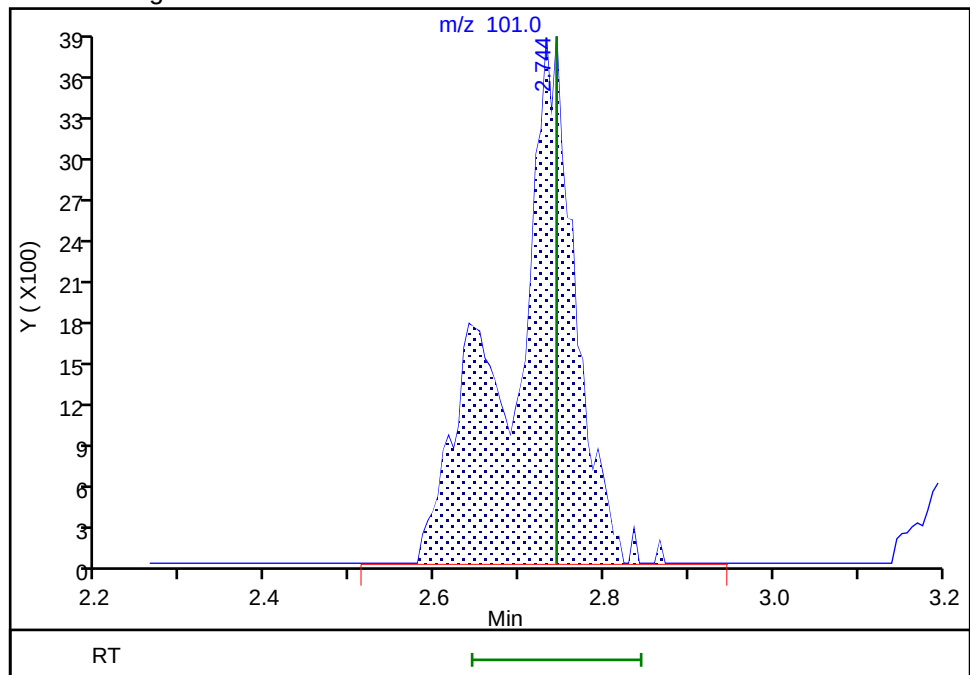
RT: 2.74
Area: 13407
Amount: 0.162707
Amount Units: ug/l

Processing Integration Results



RT: 2.74
Area: 20923
Amount: 0.215520
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:18:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

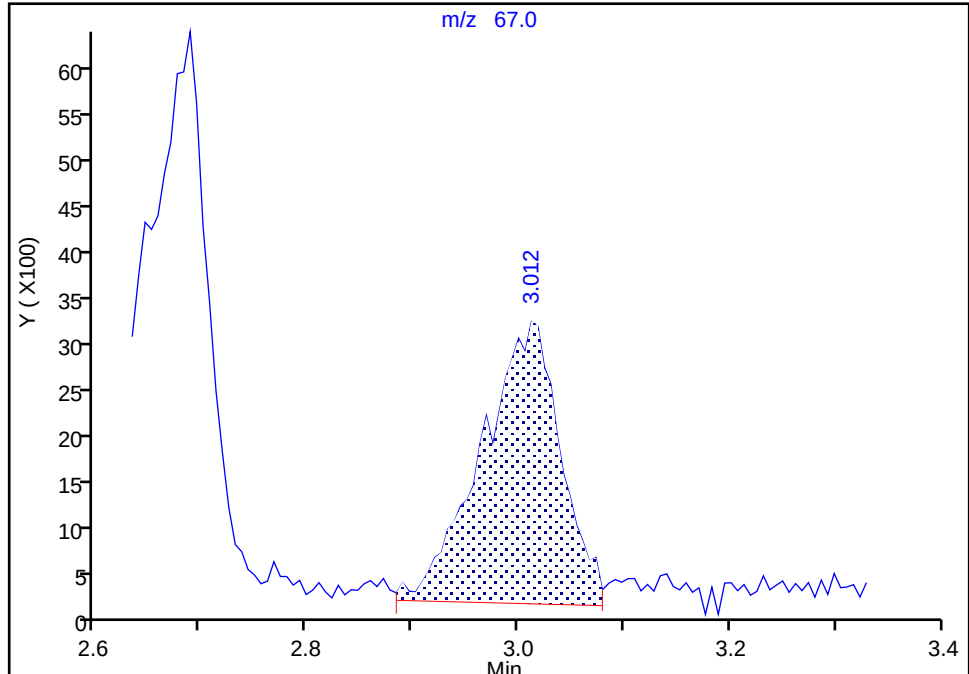
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X12.D
Injection Date: 14-Jun-2024 22:28:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

16 1,2-Dichloro-1,1,2-trifluoroetha, CAS: 354-23-4

Signal: 1

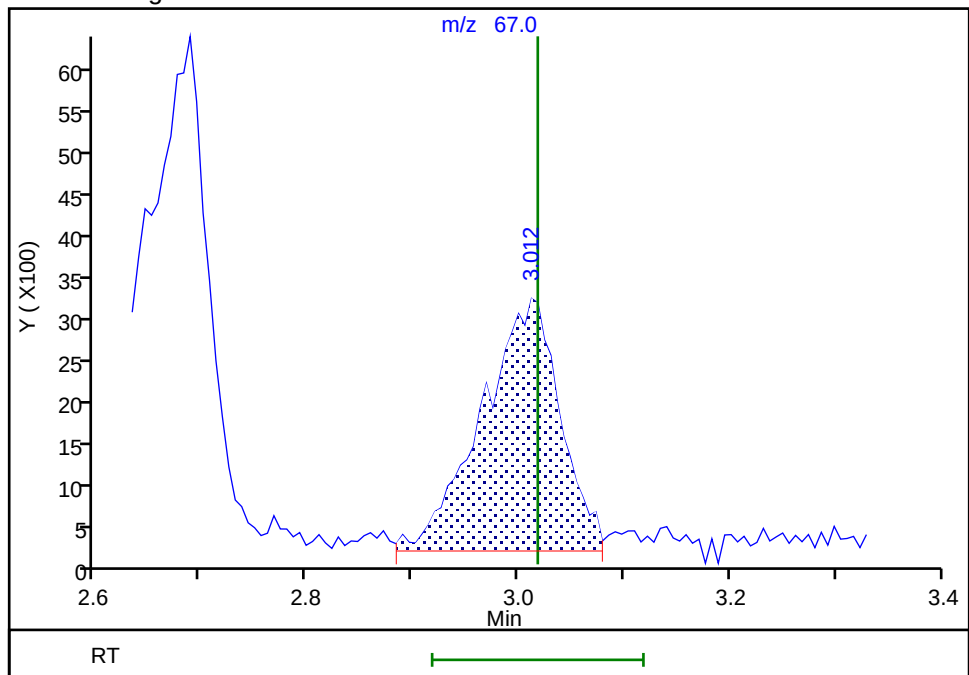
RT: 3.01
Area: 15830
Amount: 0.221315
Amount Units: ug/l

Processing Integration Results



RT: 3.01
Area: 15704
Amount: 0.219830
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:18:51 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

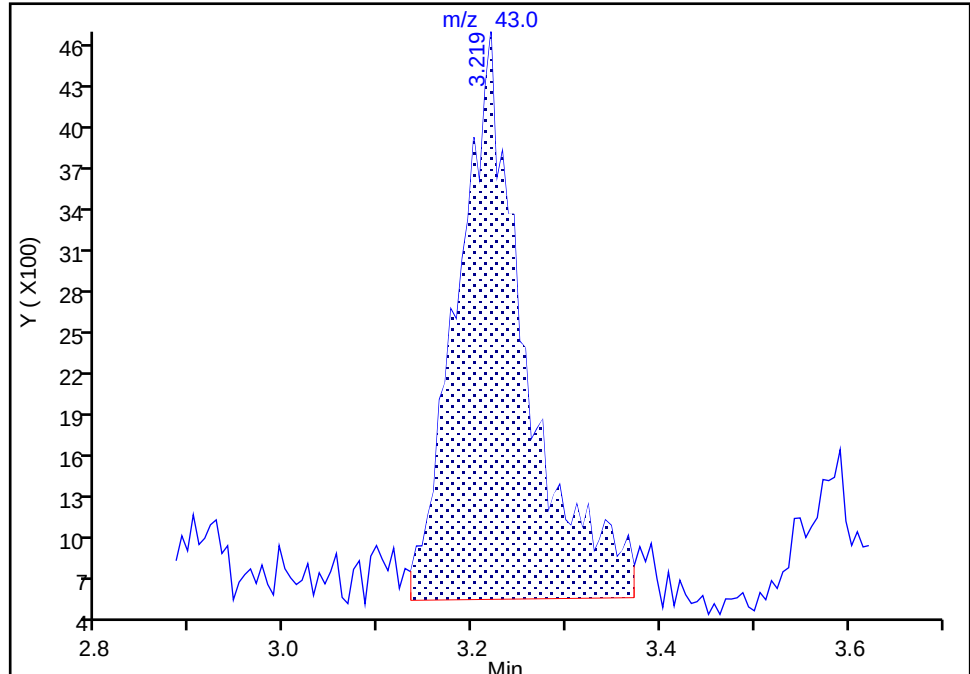
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X12.D
Injection Date: 14-Jun-2024 22:28:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

20 Acetone, CAS: 67-64-1

Signal: 1

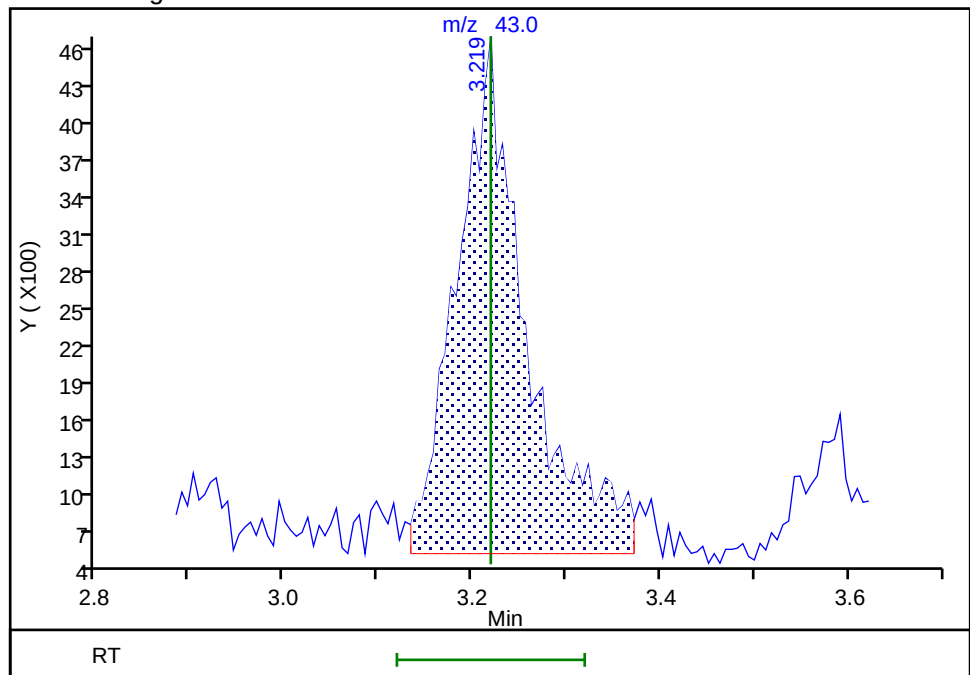
RT: 3.22
Area: 20557
Amount: 2.353725
Amount Units: ug/l

Processing Integration Results



RT: 3.22
Area: 21054
Amount: 2.444632
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:19:07 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

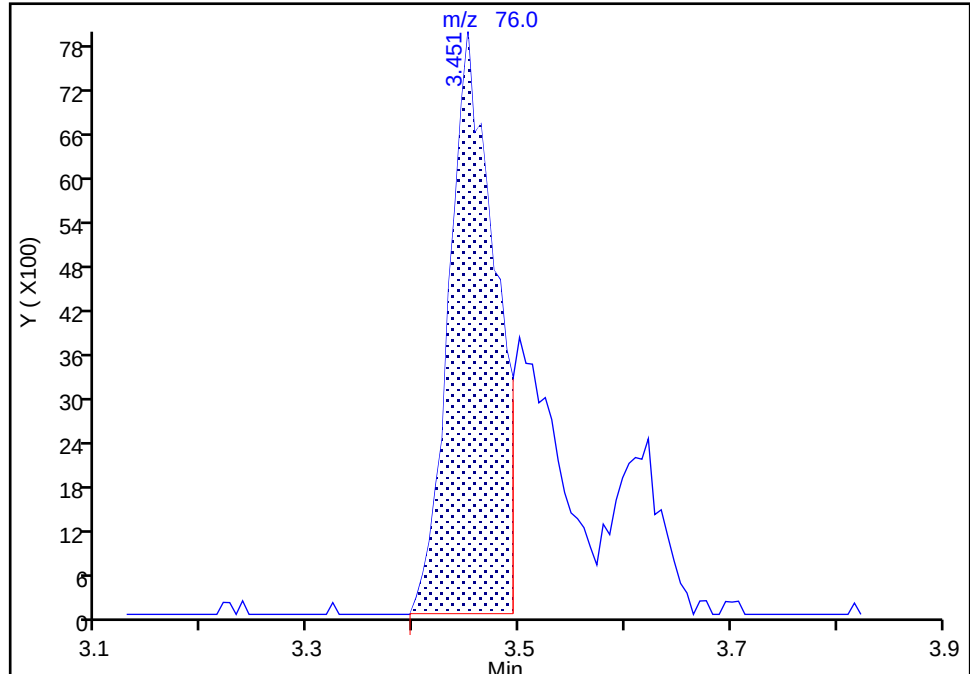
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X12.D
Injection Date: 14-Jun-2024 22:28:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

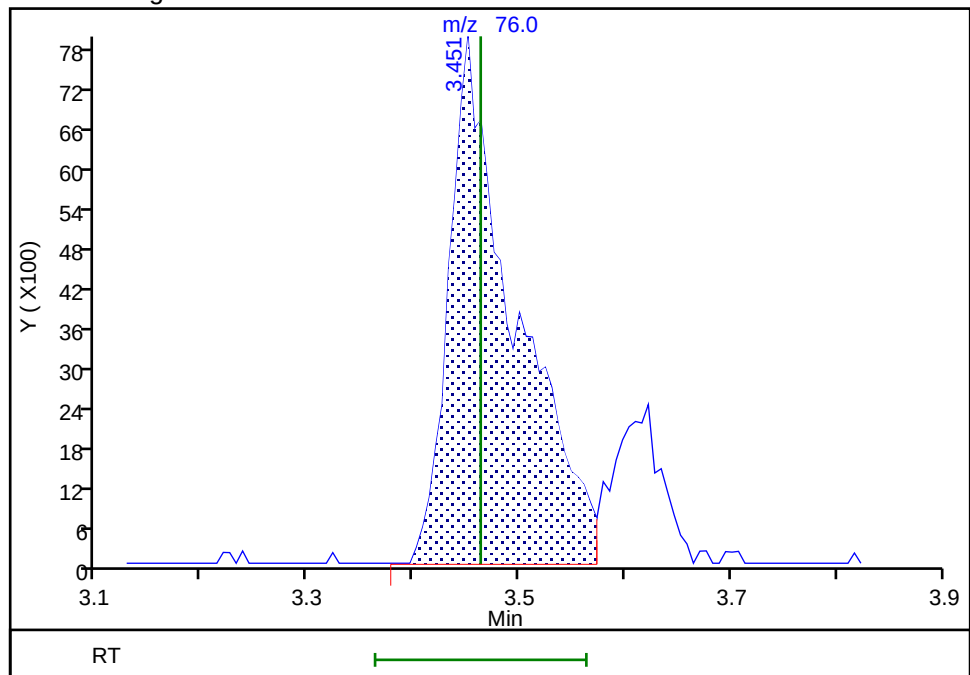
RT: 3.45
Area: 24242
Amount: 0.171043
Amount Units: ug/l

Processing Integration Results



RT: 3.45
Area: 34643
Amount: 0.206423
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:19:27 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

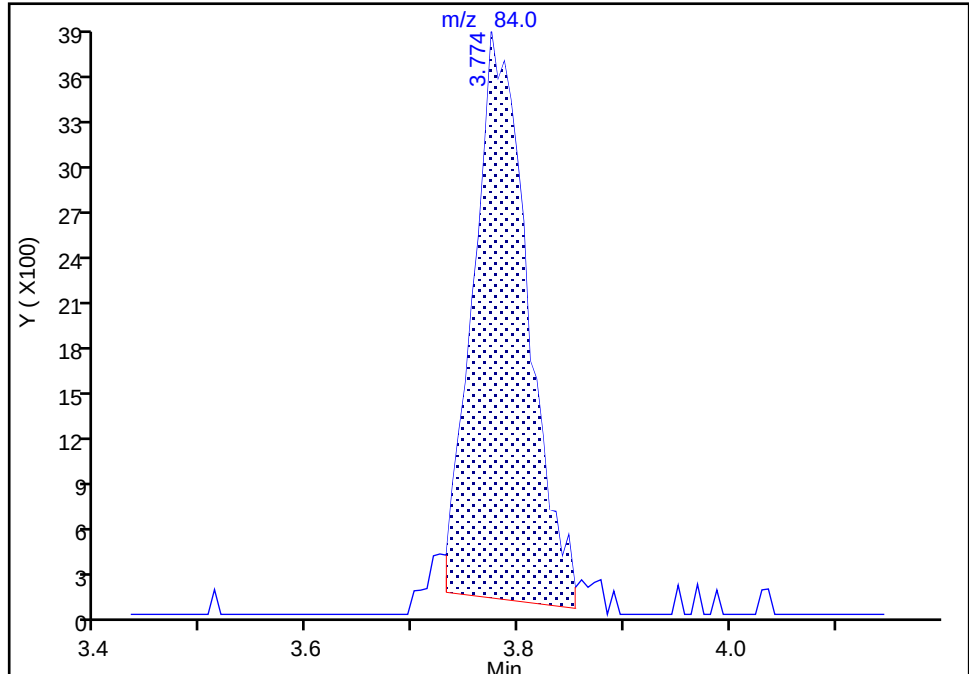
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X12.D
Injection Date: 14-Jun-2024 22:28:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

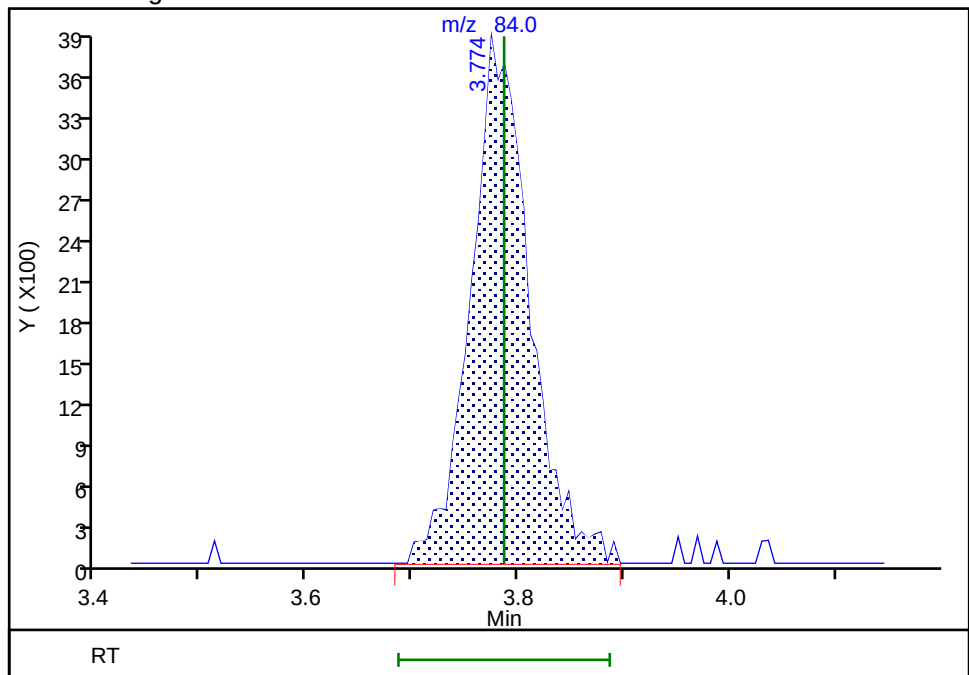
RT: 3.77
Area: 13391
Amount: 0.221210
Amount Units: ug/l

Processing Integration Results



RT: 3.77
Area: 14882
Amount: 0.241591
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:19:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

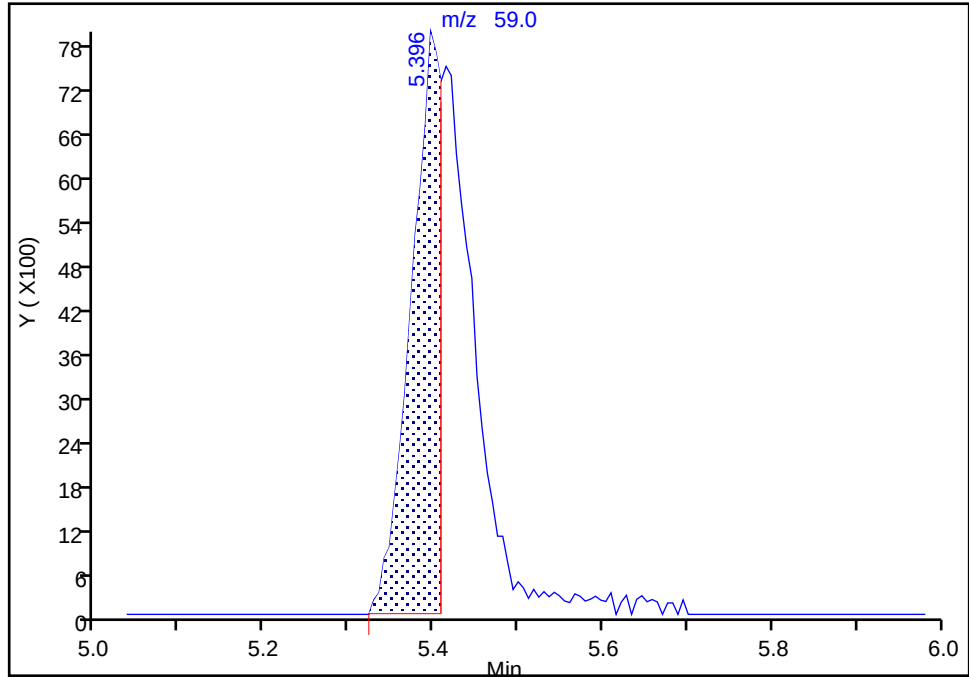
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X12.D
Injection Date: 14-Jun-2024 22:28:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

41 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

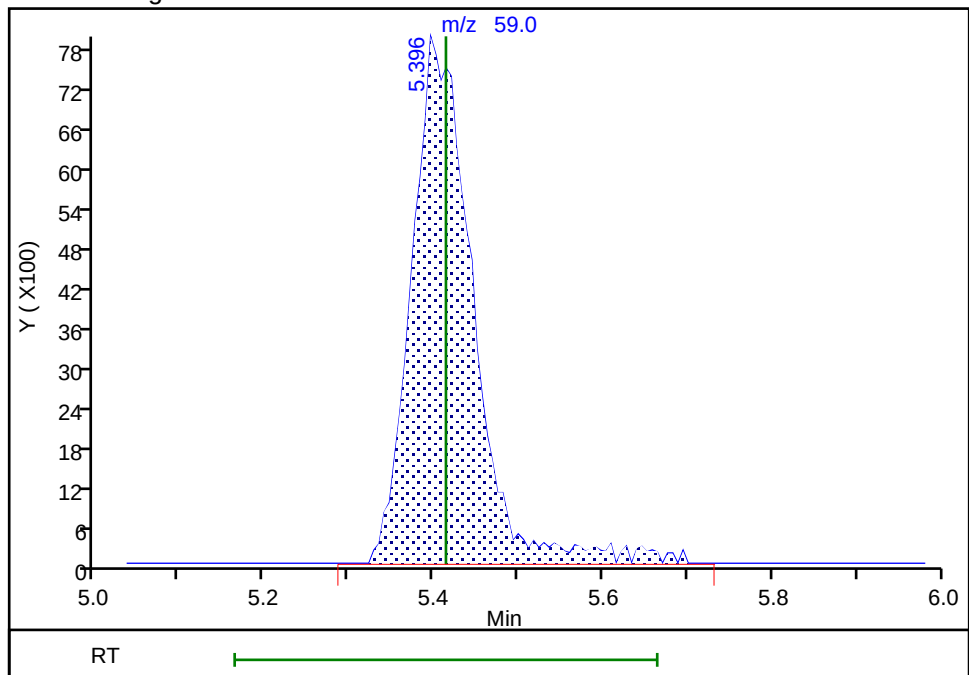
RT: 5.40
Area: 19645
Amount: 0.115148
Amount Units: ug/l

Processing Integration Results



RT: 5.40
Area: 39920
Amount: 0.215681
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:19:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

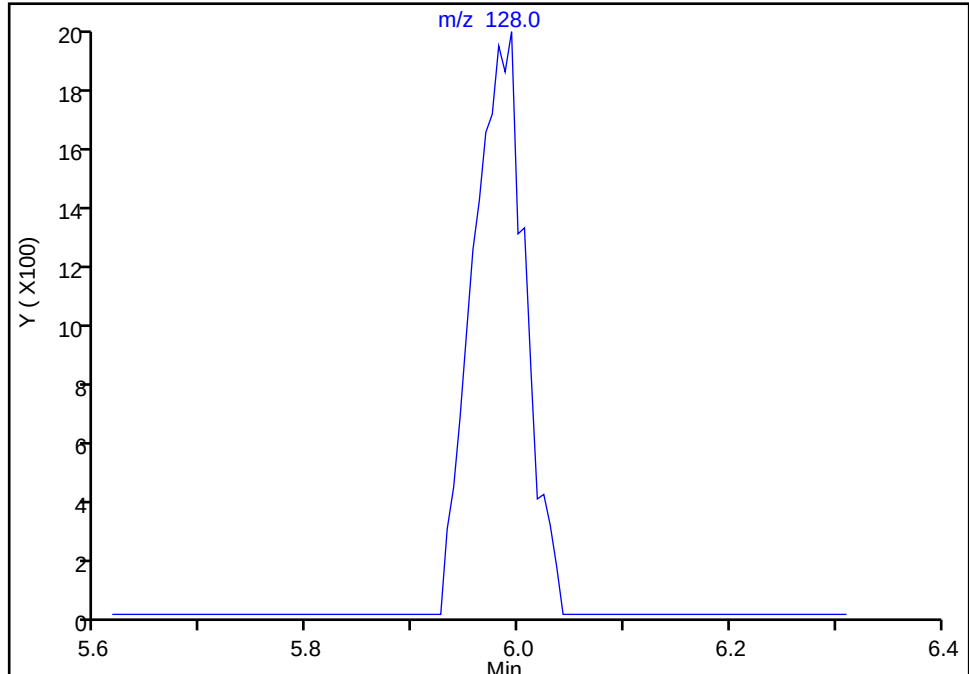
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X12.D
Injection Date: 14-Jun-2024 22:28:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

48 Chlorobromomethane, CAS: 74-97-5

Signal: 1

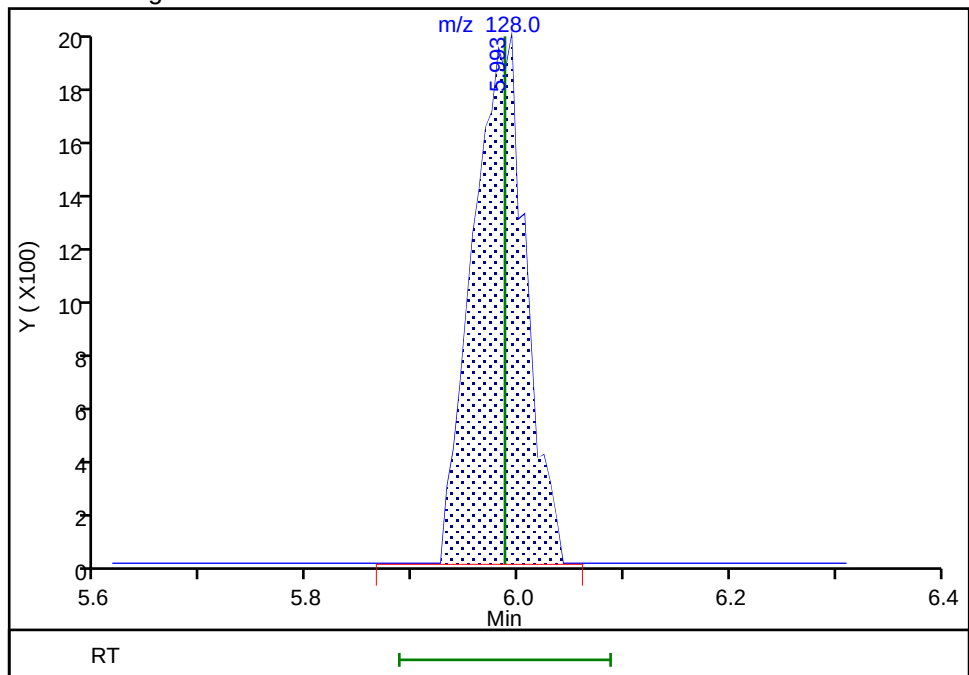
Not Detected
Expected RT: 5.99

Processing Integration Results



RT: 5.99
Area: 6692
Amount: 0.209076
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:20:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

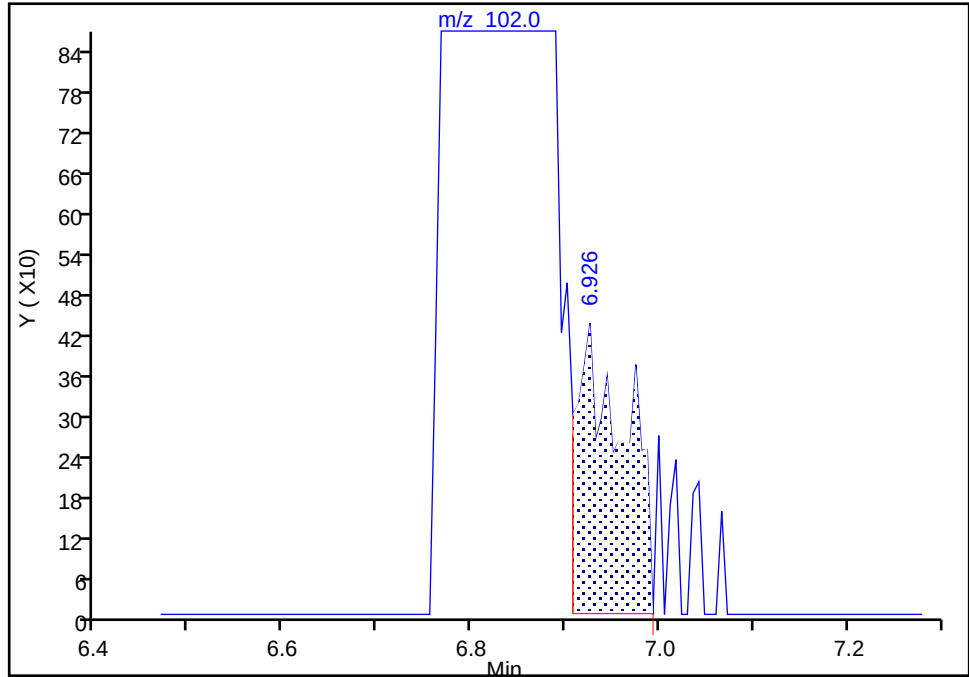
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X12.D
Injection Date: 14-Jun-2024 22:28:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

\$ 59 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

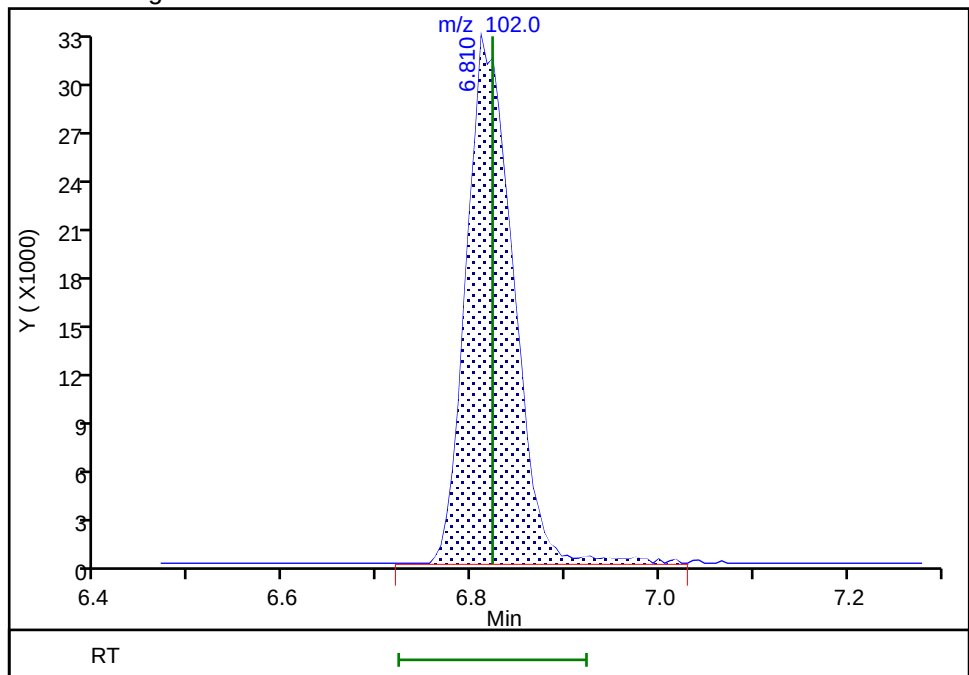
RT: 6.93
Area: 1536
Amount: 0.159843
Amount Units: ug/l

Processing Integration Results



RT: 6.81
Area: 112641
Amount: 10.060269
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:20:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

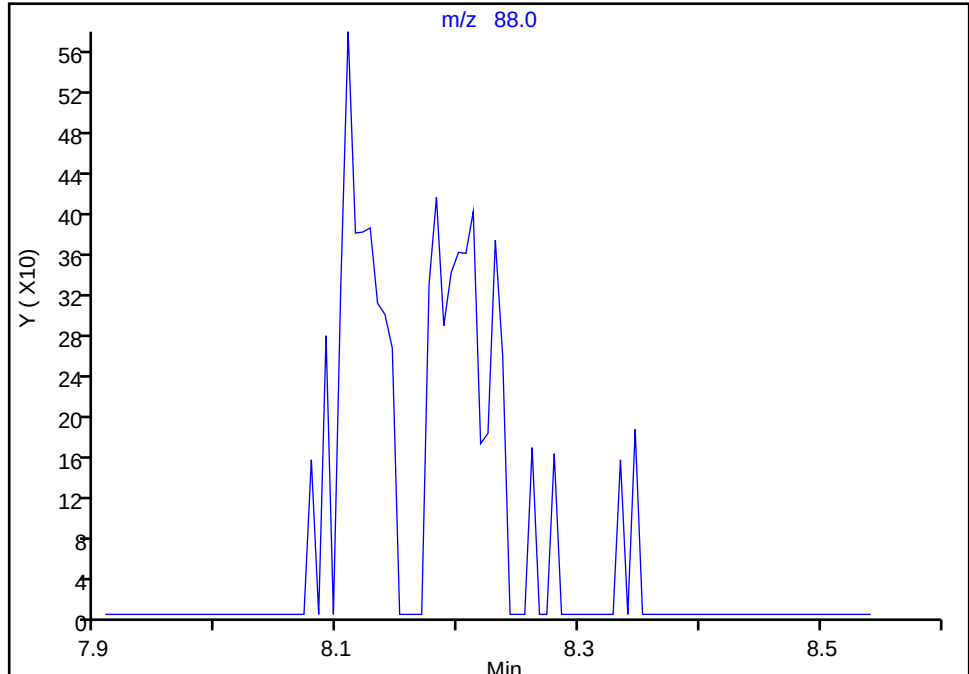
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X12.D
Injection Date: 14-Jun-2024 22:28:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

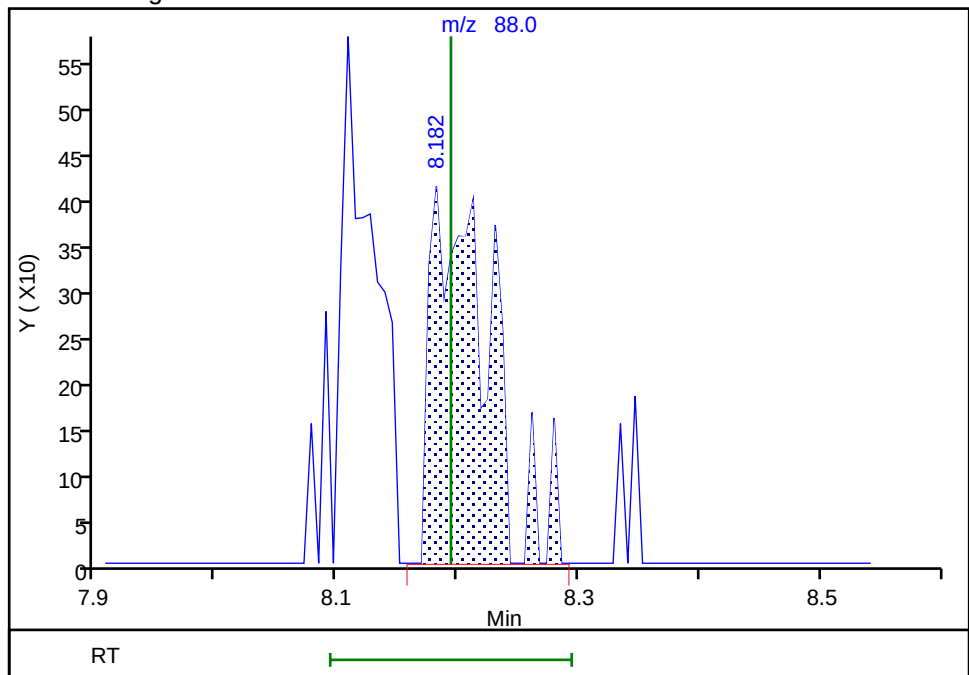
Signal: 1

Not Detected
Expected RT: 8.19

Processing Integration Results



Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:21:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

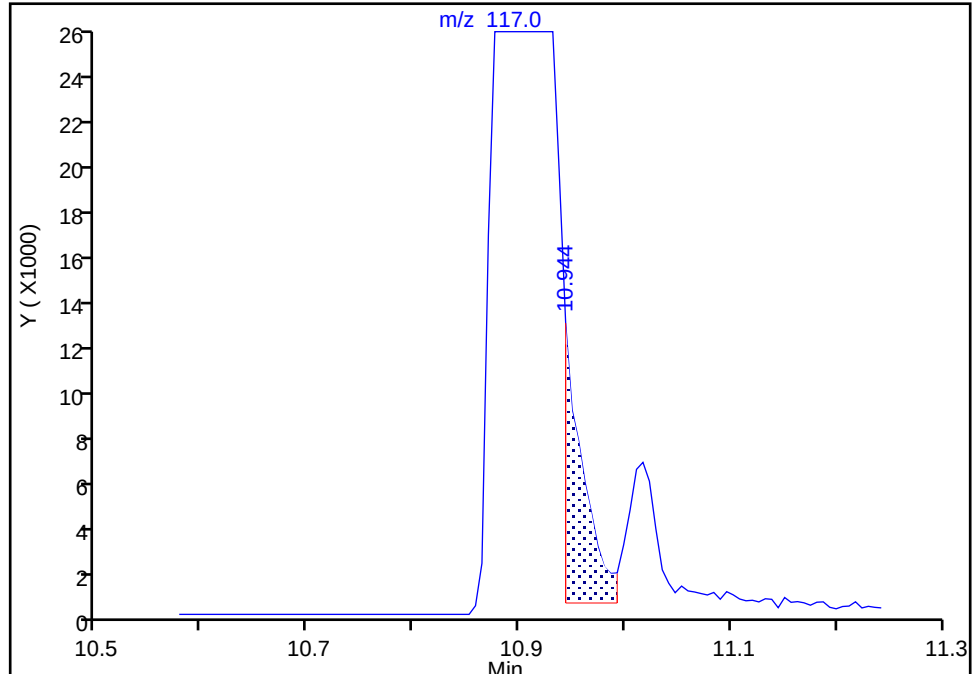
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X12.D
Injection Date: 14-Jun-2024 22:28:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

*** 111 Chlorobenzene-d5 (IS), CAS: 3114-55-4**

Signal: 1

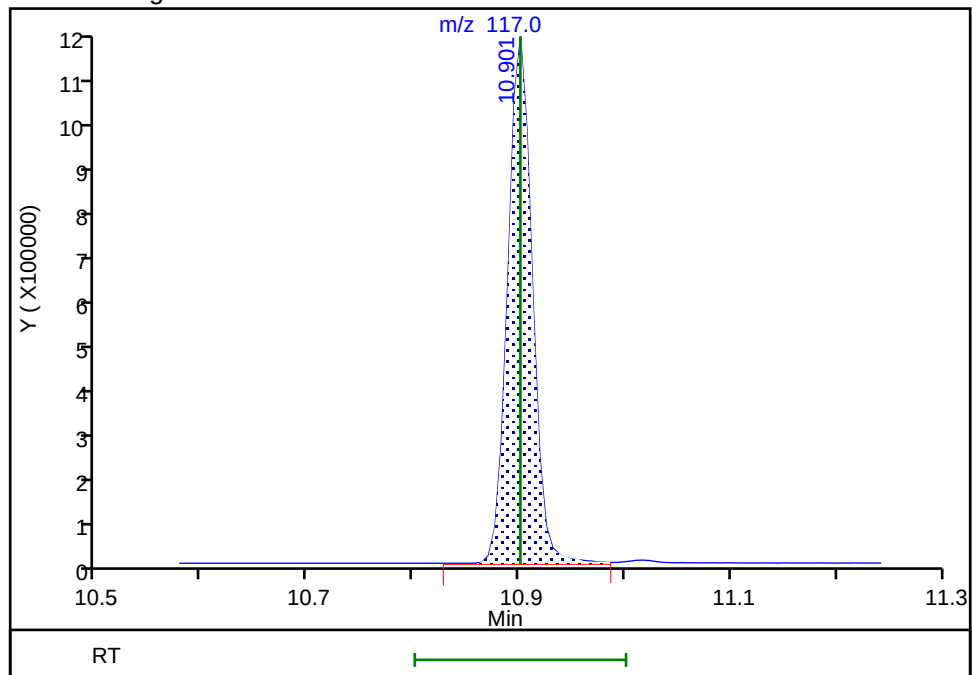
RT: 10.94
Area: 15751
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 10.90
Area: 1782883
Amount: 10.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:22:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

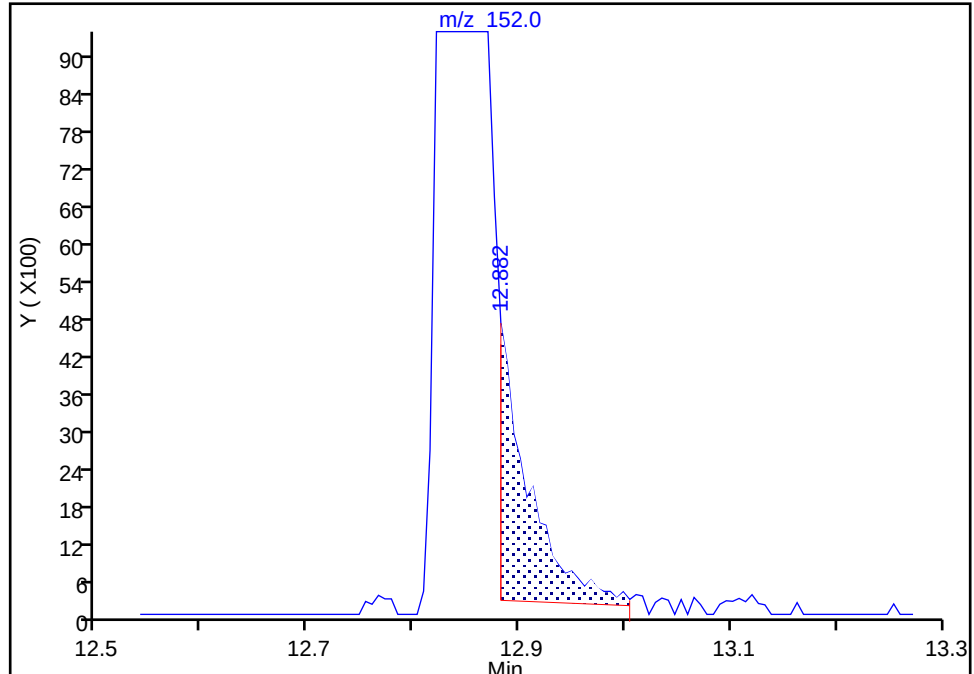
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X12.D
Injection Date: 14-Jun-2024 22:28:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 139 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

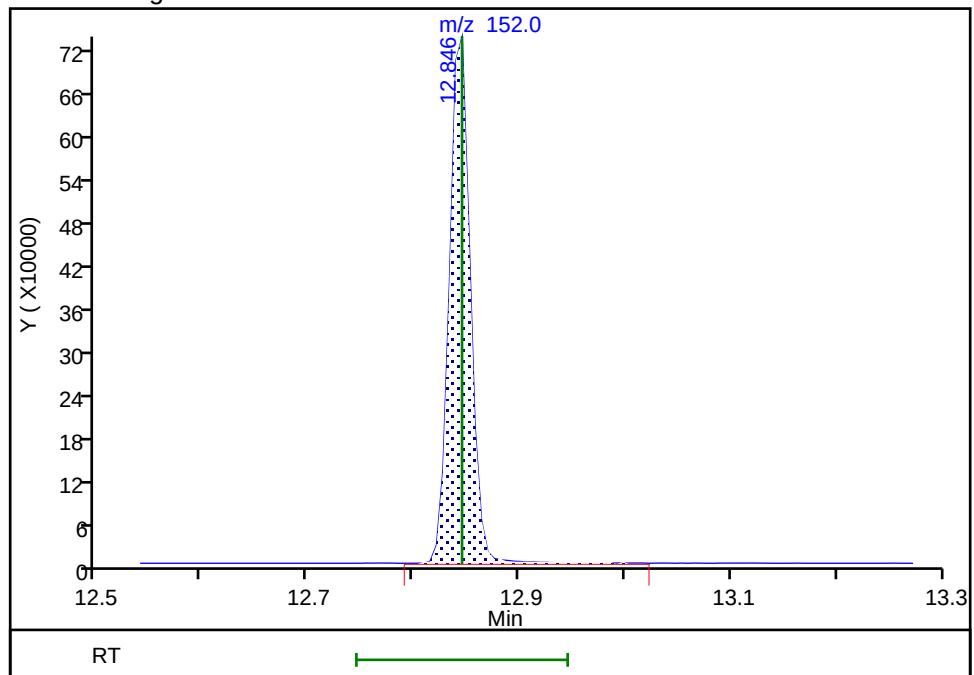
RT: 12.88
Area: 8576
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 12.85
Area: 1015421
Amount: 10.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:22:42 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X13.D
 Lims ID: IC std2 0.5
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 14-Jun-2024 22:51:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0116724-014
 Misc. Info.: IC STD.5 LG
 Operator ID: MEC29284 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 17-Jun-2024 19:28:38 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1606

First Level Reviewer: UCB5

Date: 16-Jun-2024 13:28:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.799	1.799	0.000	99	37177	0.5000	0.4977	
5 Chloromethane	50	1.982	1.982	0.000	99	44306	0.5000	0.5250	
6 Vinyl chloride	62	2.079	2.085	-0.006	98	42389	0.5000	0.5104	
7 Butadiene	39	2.079	2.085	-0.006	95	43922	0.5000	0.4948	M
9 Bromomethane	94	2.396	2.396	0.000	90	29766	0.5000	0.5096	
10 Chloroethane	64	2.439	2.445	-0.006	99	23856	0.5000	0.5016	
11 Dichlorofluoromethane	67	2.689	2.689	0.000	97	59601	0.5000	0.4837	
13 Pentane	43	2.732	2.738	-0.006	97	39044	0.5000	0.4734	
12 Trichlorofluoromethane	101	2.738	2.744	-0.006	97	47549	0.5000	0.4921	
14 Ethyl ether	59	2.914	2.921	-0.007	92	21441	0.4999	0.4913	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.006	3.018	-0.012	93	36239	0.5000	0.5097	
17 Acrolein	56	3.079	3.073	0.006	99	164124	25.1	22.6	
18 1,1-Dichloroethene	96	3.189	3.195	-0.006	97	26536	0.5000	0.5156	
20 Acetone	43	3.219	3.219	0.000	100	47638	5.00	5.10	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.238	3.244	-0.006	90	26179	0.5000	0.4945	
24 Isopropyl alcohol	45	3.384	3.366	0.018	37	18207	10.0	9.48	
22 Iodomethane	142	3.366	3.372	-0.006	97	52317	0.5000	0.4883	
23 Ethyl bromide	108	3.396	3.396	0.000	97	23488	0.5009	0.5014	
25 Carbon disulfide	76	3.457	3.463	-0.006	98	80537	0.5000	0.4821	M
26 Methyl acetate	43	3.591	3.585	0.006	21	13658	0.5000	0.5091	M
29 3-Chloro-1-propene	41	3.609	3.616	-0.007	92	41675	0.5000	0.4875	
30 Methylene Chloride	84	3.786	3.786	0.000	95	30489	0.5000	0.4973	
* 31 t-Butyl alcohol-d10 (IS)	65	3.798	3.792	0.006	96	188422	50.0	50.0	
32 2-Methyl-2-propanol	59	3.914	3.908	0.006	99	38284	10.0	10.5	
33 Acrylonitrile	53	4.097	4.091	0.006	95	16396	1.25	1.20	
35 trans-1,2-Dichloroethene	96	4.146	4.146	0.000	99	30060	0.5000	0.4895	
34 Methyl tert-butyl ether	73	4.152	4.146	0.006	94	77651	0.5000	0.4944	
36 Hexane	57	4.567	4.561	0.006	92	39337	0.5000	0.4931	
37 1,1-Dichloroethane	63	4.804	4.804	0.000	96	51613	0.5000	0.4892	
39 Isopropyl ether	45	4.878	4.871	0.007	94	92217	0.5000	0.4904	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.908	4.914	-0.006	90	42355	0.5000	0.4841	
41 Tert-butyl ethyl ether	59	5.408	5.414	-0.006	98	90588	0.5000	0.4917	
42 2-Butanone (MEK)	43	5.621	5.615	0.006	99	78834	5.00	4.60	
43 cis-1,2-Dichloroethene	96	5.658	5.652	0.006	80	33306	0.5000	0.4828	
44 2,2-Dichloropropane	77	5.670	5.670	0.000	73	45206	0.5000	0.5170	
45 Propionitrile	54	5.719	5.719	0.000	99	42419	10.0	9.17	
47 Methacrylonitrile	67	5.932	5.926	0.006	91	77190	5.00	4.55	
49 Tetrahydrofuran	71	5.987	5.981	0.006	76	13124	2.50	2.45	
48 Chlorobromomethane	128	5.987	5.987	0.000	85	15450	0.5000	0.4850	
50 Chloroform	83	6.152	6.146	0.006	93	56816	0.5000	0.5084	
S 52 1,2-Dichloroethene, Total	100				0			0.9723	
\$ 54 Dibromofluoromethane (Surr)	113	6.365	6.365	0.000	94	543106	10.0	9.97	
53 1,1,1-Trichloroethane	97	6.365	6.371	-0.006	39	46177	0.5000	0.4946	
55 Cyclohexane	56	6.463	6.463	0.000	90	48058	0.5000	0.4833	
57 1,1-Dichloropropene	75	6.572	6.585	-0.012	93	40770	0.5000	0.4885	M
56 Carbon tetrachloride	117	6.572	6.585	-0.012	93	40728	0.5000	0.4817	
58 Isobutyl alcohol	41	6.774	6.780	-0.006	92	30940	25.0	23.7	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.816	6.822	-0.006	99	109341	10.0	9.81	
60 Benzene	78	6.841	6.853	-0.012	94	124904	0.5000	0.4979	
61 1,2-Dichloroethane	62	6.920	6.926	-0.006	97	32250	0.5000	0.5040	
64 Tert-amyl methyl ether	73	7.054	7.060	-0.006	98	82988	0.5000	0.4847	
* 65 Fluorobenzene (IS)	96	7.267	7.267	0.000	99	2249339	10.0	10.0	
66 n-Heptane	43	7.286	7.286	0.000	38	39635	0.5000	0.4792	
67 n-Butanol	56	7.688	7.682	0.006	87	47106	43.8	39.2	
68 Trichloroethene	95	7.749	7.755	-0.006	96	34377	0.5000	0.4978	
69 Methylcyclohexane	83	8.066	8.066	0.000	91	53014	0.5000	0.4789	
70 1,2-Dichloropropane	63	8.096	8.096	0.000	97	31356	0.5000	0.4883	
71 2-ethoxy-2-methyl butane	87	8.121	8.127	-0.006	92	49965	0.5000	0.4785	
74 1,4-Dioxane	88	8.194	8.194	0.000	32	6332	25.0	26.9	M
73 Methyl methacrylate	69	8.194	8.200	-0.006	89	17148	0.5000	0.4824	
72 Dibromomethane	93	8.206	8.206	0.000	86	15752	0.5000	0.4816	
76 Dichlorobromomethane	83	8.450	8.456	-0.006	99	37902	0.5000	0.4891	
77 2-Nitropropane	41	8.743	8.743	0.000	98	21479	2.50	2.24	
78 1-Bromo-2-chloroethane	63	8.846	8.846	0.000	98	30765	0.5000	0.4899	
80 cis-1,3-Dichloropropene	75	9.029	9.029	0.000	96	48372	0.5000	0.4822	
82 4-Methyl-2-pentanone (MIBK)	43	9.230	9.230	0.000	96	198148	5.00	4.52	
\$ 83 Toluene-d8 (Surr)	98	9.358	9.358	0.000	93	2266302	10.0	9.91	
84 Toluene	92	9.438	9.444	-0.006	98	81838	0.5000	0.4828	
85 trans-1,3-Dichloropropene	75	9.730	9.730	0.000	92	40829	0.5000	0.4727	
86 Ethyl methacrylate	69	9.803	9.803	0.000	89	34505	0.5000	0.4664	
87 1,1,2-Trichloroethane	97	9.938	9.944	-0.006	90	24613	0.5000	0.5018	
88 Tetrachloroethene	166	10.023	10.023	0.000	96	40580	0.5000	0.4821	
S 107 1,3-Dichloropropene, Total	100				0			0.9549	
89 1,3-Dichloropropane	76	10.114	10.114	0.000	89	39318	0.5000	0.4824	
106 2-Hexanone	43	10.181	10.181	0.000	95	145548	5.00	4.57	
108 Chlorodibromomethane	129	10.334	10.334	0.000	91	29737	0.5000	0.4720	
110 Ethylene Dibromide	107	10.444	10.444	0.000	99	23629	0.5000	0.4859	
* 111 Chlorobenzene-d5 (IS)	117	10.901	10.901	0.000	83	1784584	10.0	10.0	
112 1-Chlorohexane	91	10.919	10.919	0.000	95	49378	0.5000	0.4970	
113 Chlorobenzene	112	10.925	10.925	0.000	97	97393	0.5000	0.4807	
114 1,1,1,2-Tetrachloroethane	131	11.017	11.017	0.000	95	34413	0.5000	0.4819	
115 Ethylbenzene	91	11.023	11.023	0.000	97	159513	0.5000	0.4793	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.145	11.145	0.000	97	131343	1.00	0.9636	
S 117 Xylenes, Total	106				0			1.45	
118 o-Xylene	106	11.486	11.486	0.000	96	65549	0.5000	0.4878	
119 Styrene	104	11.498	11.498	0.000	94	106915	0.5000	0.4802	
120 Bromoform	173	11.657	11.657	0.000	98	19199	0.5000	0.4727	
121 Isopropylbenzene	105	11.797	11.797	0.000	95	152336	0.5000	0.4777	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.937	11.943	-0.006	94	849659	10.0	9.88	
126 1,1,2,2-Tetrachloroethane	83	12.053	12.053	0.000	92	29335	0.5000	0.4896	
125 Bromobenzene	156	12.059	12.059	0.000	88	44160	0.5000	0.4891	
127 trans-1,4-Dichloro-2-butene	53	12.083	12.083	0.000	91	66951	5.00	4.76	
128 1,2,3-Trichloropropane	110	12.096	12.096	0.000	77	8200	0.5000	0.4928	
129 N-Propylbenzene	91	12.132	12.138	-0.006	98	188721	0.5000	0.4862	
130 2-Chlorotoluene	126	12.205	12.211	-0.006	98	42086	0.5000	0.4835	
131 1,3,5-Trimethylbenzene	105	12.279	12.279	0.000	94	140114	0.5000	0.4833	
132 4-Chlorotoluene	126	12.303	12.303	0.000	97	44945	0.5000	0.4953	
133 tert-Butylbenzene	134	12.522	12.522	0.000	92	33982	0.5000	0.4874	
134 Pentachloroethane	167	12.553	12.553	0.000	79	24576	0.5000	0.4703	
135 1,2,4-Trimethylbenzene	105	12.565	12.565	0.000	96	144139	0.5000	0.4815	
136 sec-Butylbenzene	105	12.693	12.693	0.000	93	181269	0.5000	0.4846	
137 1,3-Dichlorobenzene	146	12.785	12.785	0.000	98	85569	0.5000	0.4797	
138 4-Isopropyltoluene	119	12.803	12.803	0.000	97	162015	0.5000	0.4819	
* 139 1,4-Dichlorobenzene-d4	152	12.845	12.846	-0.001	93	1026393	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.864	12.864	0.000	95	88542	0.5000	0.4852	
141 1,2,3-Trimethylbenzene	120	12.876	12.876	0.000	98	66932	0.5000	0.4844	
142 Benzyl chloride	126	12.943	12.943	0.000	97	13638	0.5000	0.4967	
145 p-Diethylbenzene	119	13.083	13.083	0.000	94	101562	0.5000	0.4848	
143 n-Butylbenzene	92	13.102	13.102	0.000	96	77859	0.5000	0.4823	
144 1,2-Dichlorobenzene	146	13.126	13.126	0.000	99	78610	0.5000	0.4827	
148 1,2-Dibromo-3-Chloropropane	155	13.687	13.681	0.006	89	4872	0.5000	0.4911	
149 1,3,5-Trichlorobenzene	180	13.809	13.803	0.006	97	65319	0.5000	0.4720	
150 1,2,4-Trichlorobenzene	180	14.235	14.235	0.000	94	51723	0.5000	0.4612	
151 Hexachlorobutadiene	225	14.321	14.321	0.000	97	27875	0.5000	0.4813	
152 Naphthalene	128	14.418	14.418	0.000	96	81310	0.5000	0.4580	
153 1,2,3-Trichlorobenzene	180	14.565	14.565	0.000	95	40540	0.5000	0.4635	
154 2-Methylnaphthalene	142	15.174	15.174	0.000	91	30266	0.5000	0.3850	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00133

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00140

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00214

Amount Added: 2.00

Units: uL

MSV_HP25_ISSS_00090

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 17-Jun-2024 19:28:39

Chrom Revision: 2.3 03-Jun-2024 20:58:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X13.D

Injection Date: 14-Jun-2024 22:51:30

Instrument ID: 10193

Operator ID: MEC29284

Lims ID: IC std2 0.5

Worklist Smp#: 14

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

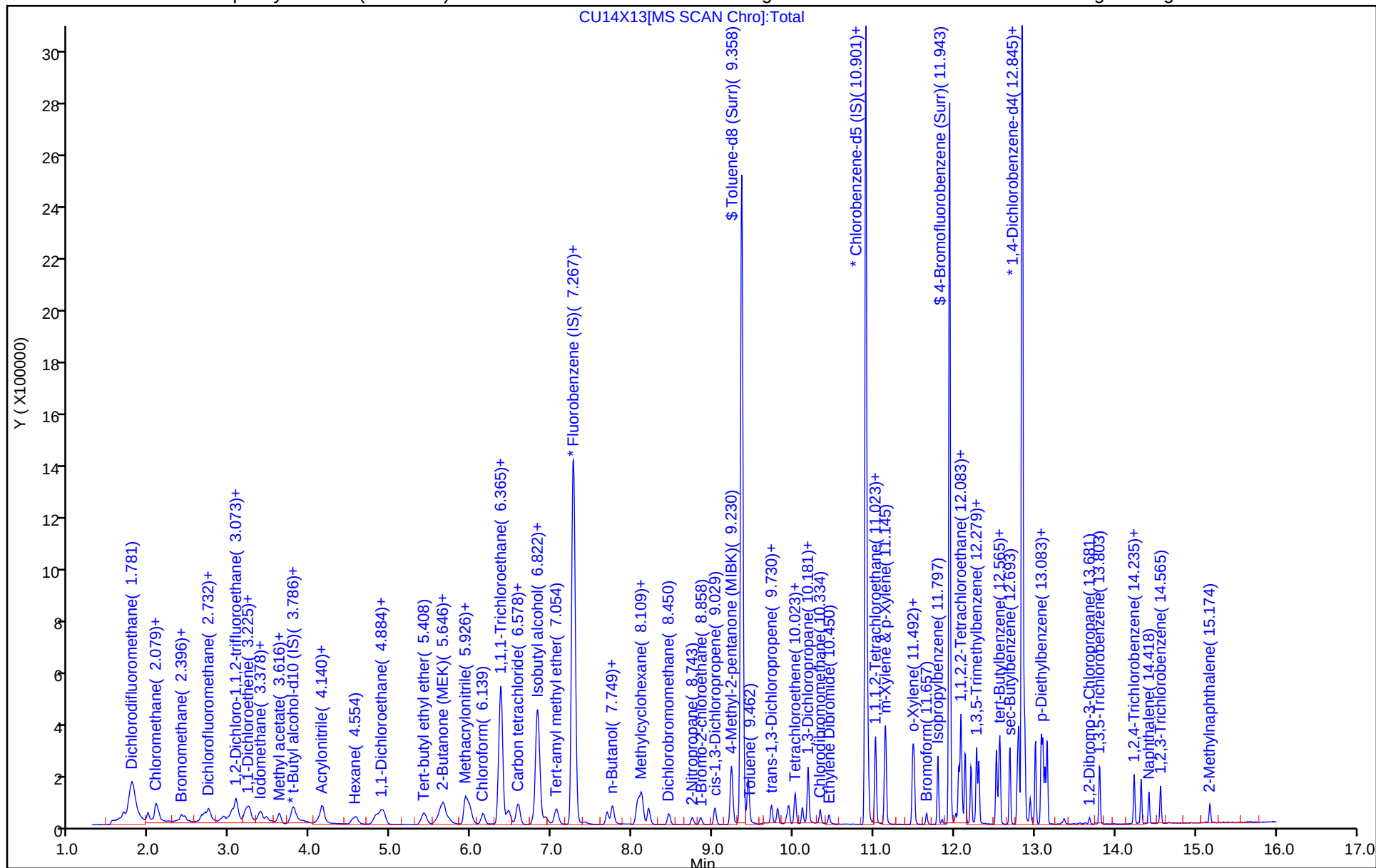
ALS Bottle#: 13

Method: MSV_10193_25mL

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

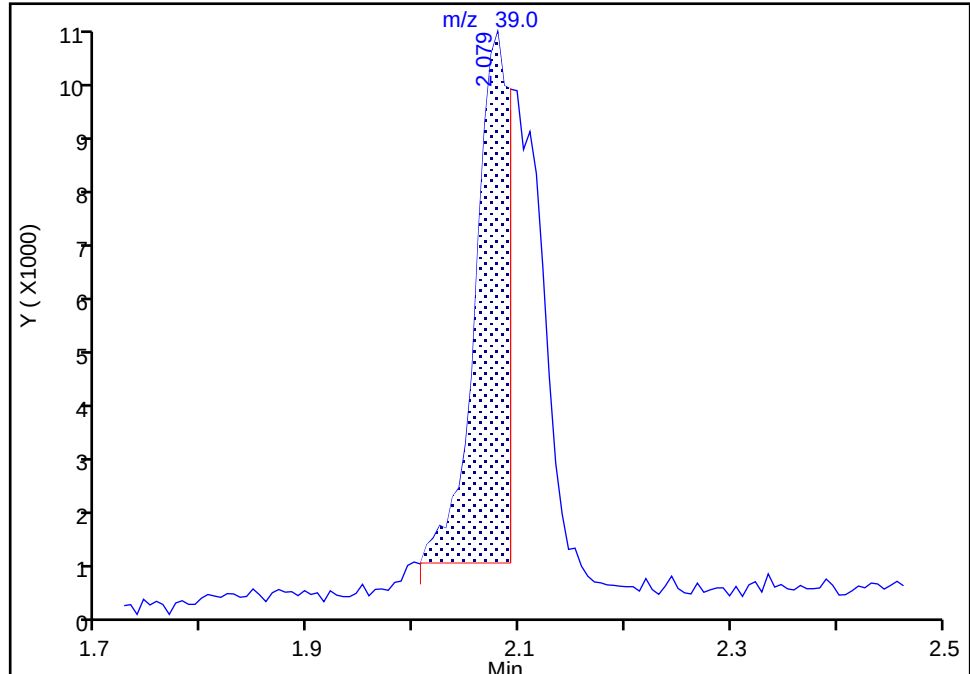
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X13.D
Injection Date: 14-Jun-2024 22:51:30 Instrument ID: 10193
Lims ID: IC std2 0.5
Client ID:
Operator ID: MEC29284 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

7 Butadiene, CAS: 106-99-0

Signal: 1

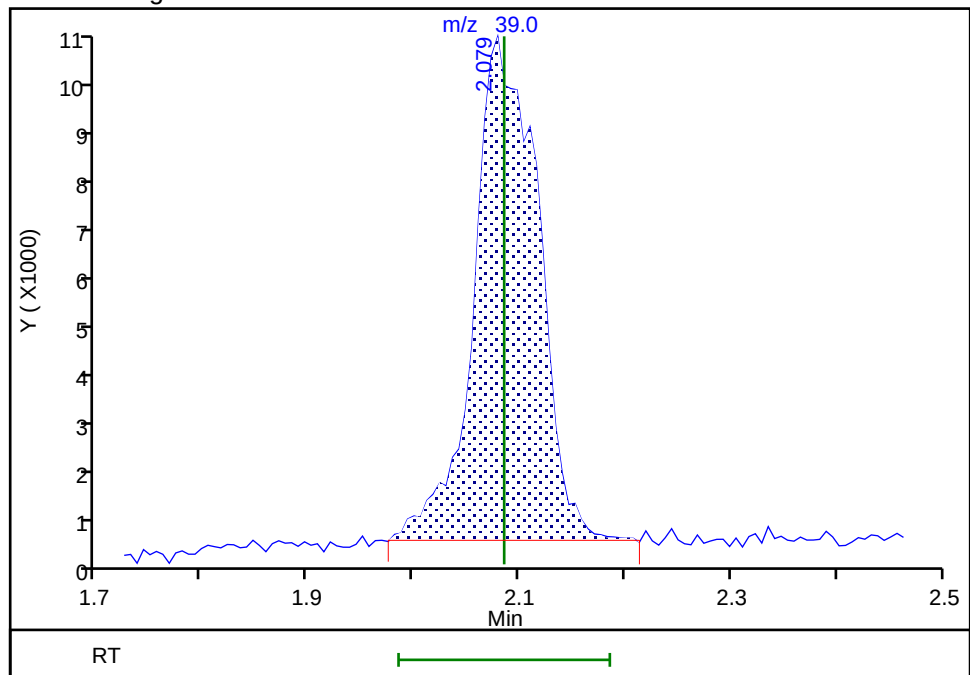
RT: 2.08
Area: 22530
Amount: 0.291684
Amount Units: ug/l

Processing Integration Results



RT: 2.08
Area: 43922
Amount: 0.494849
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:24:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

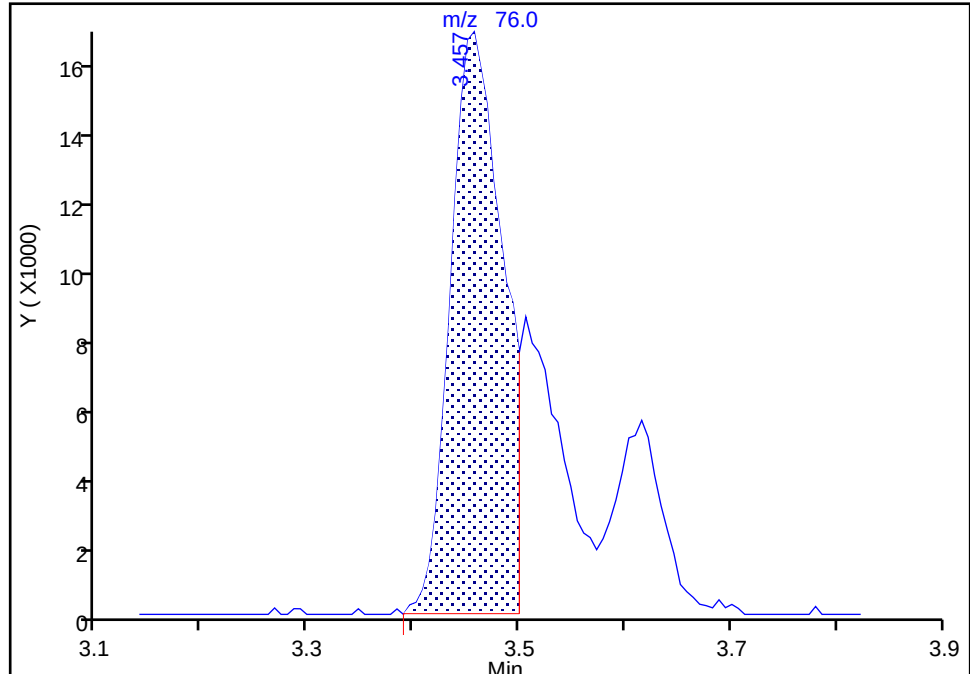
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X13.D
Injection Date: 14-Jun-2024 22:51:30 Instrument ID: 10193
Lims ID: IC std2 0.5
Client ID:
Operator ID: MEC29284 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

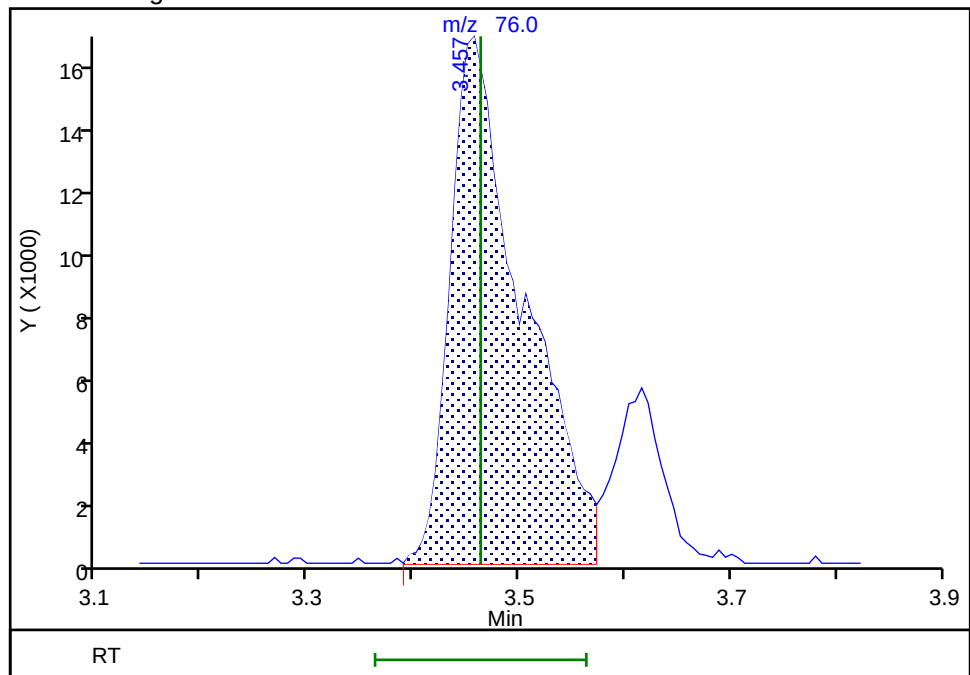
RT: 3.46
Area: 58695
Amount: 0.395356
Amount Units: ug/l

Processing Integration Results



RT: 3.46
Area: 80537
Amount: 0.482144
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:25:34 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X13.D

Injection Date: 14-Jun-2024 22:51:30

Instrument ID: 10193

Lims ID: IC std2 0.5

Client ID:

Operator ID: MEC29284

ALS Bottle#:

13

Worklist Smp#: 14

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_10193_25mL

Limit Group:

MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

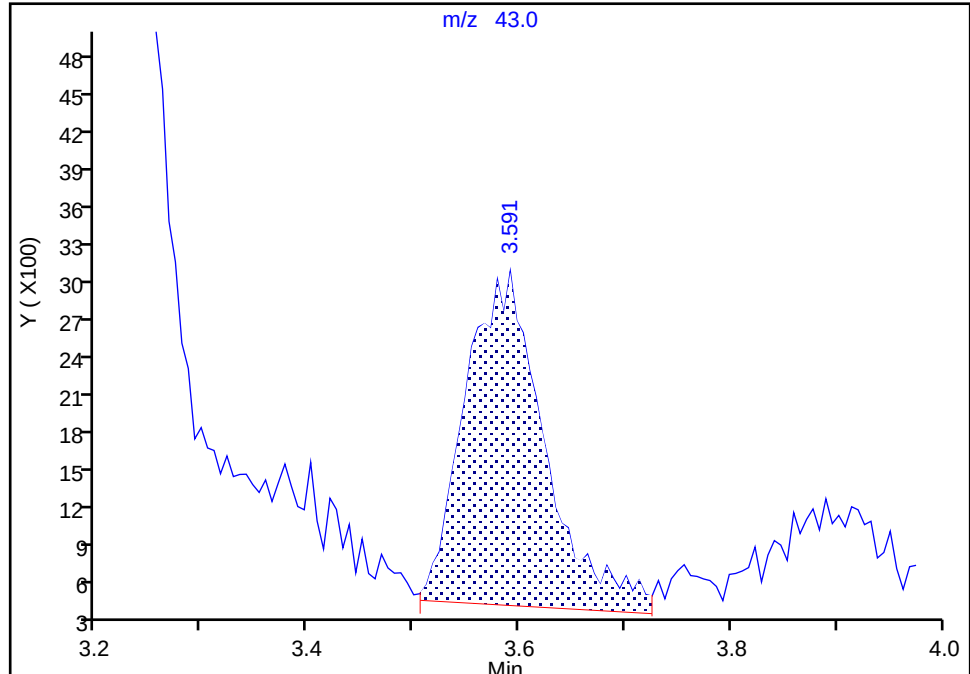
MS Quad

26 Methyl acetate, CAS: 79-20-9

Signal: 1

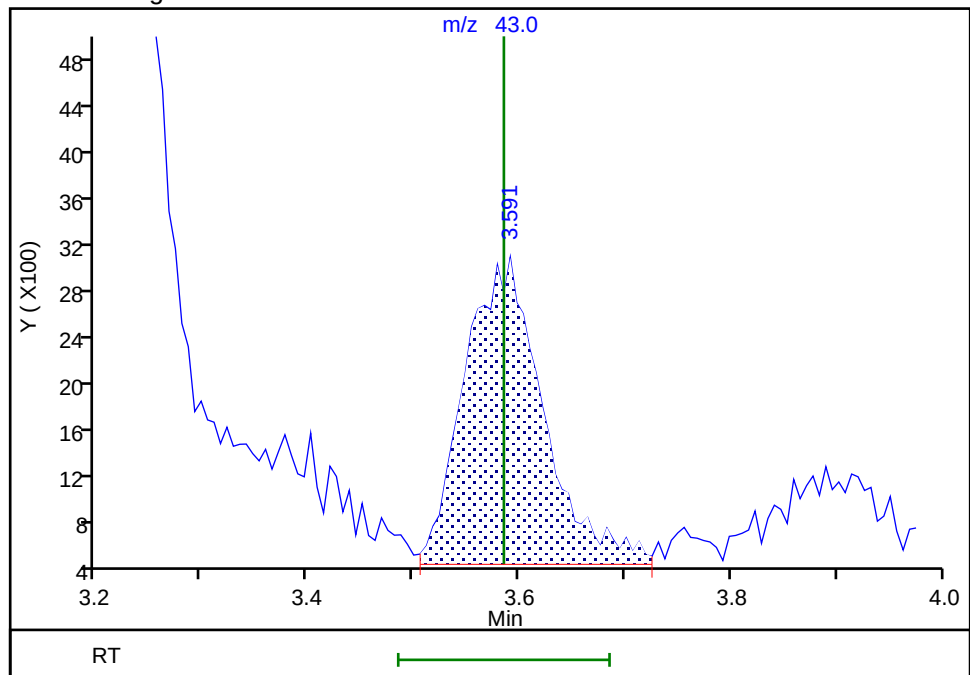
RT: 3.59
Area: 14030
Amount: 0.511807
Amount Units: ug/l

Processing Integration Results



RT: 3.59
Area: 13658
Amount: 0.509108
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:25:54 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

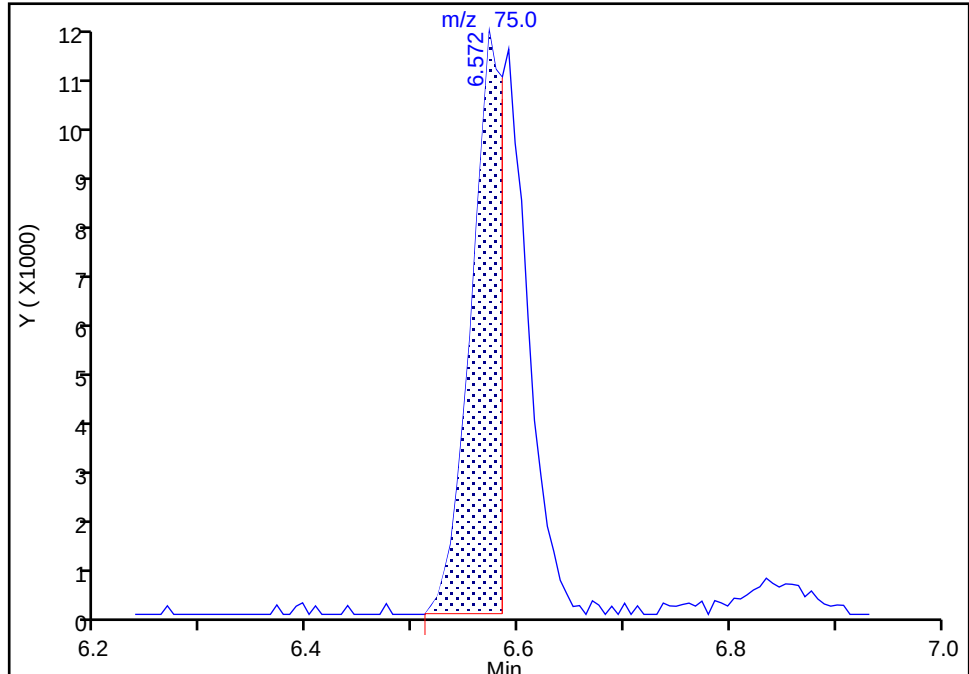
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X13.D
Injection Date: 14-Jun-2024 22:51:30 Instrument ID: 10193
Lims ID: IC std2 0.5
Client ID:
Operator ID: MEC29284 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

57 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

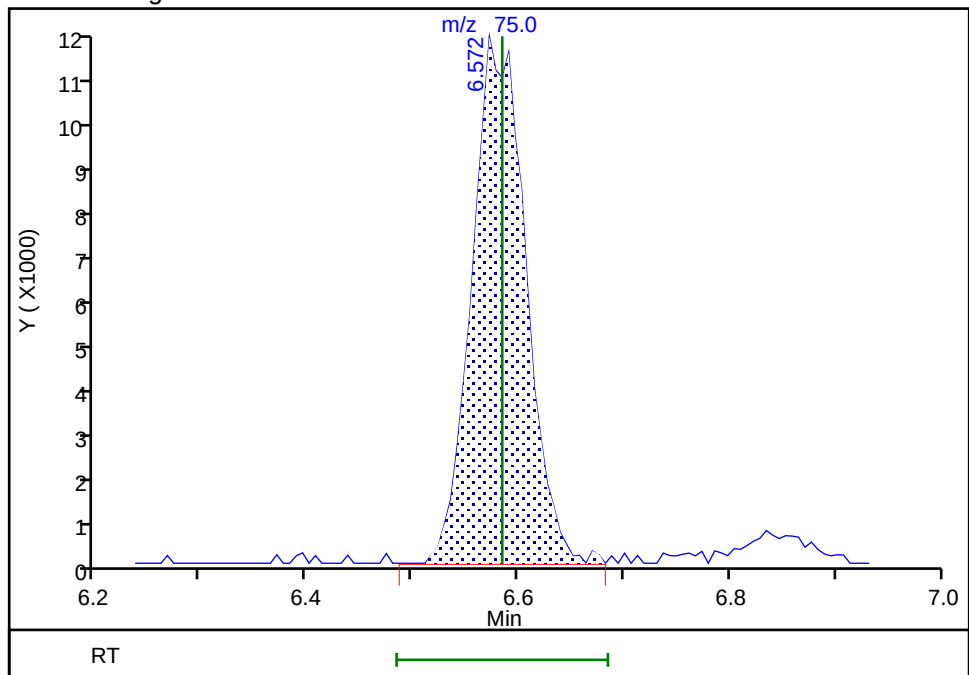
RT: 6.57
Area: 23893
Amount: 0.303808
Amount Units: ug/l

Processing Integration Results



RT: 6.57
Area: 40770
Amount: 0.488456
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:27:03 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

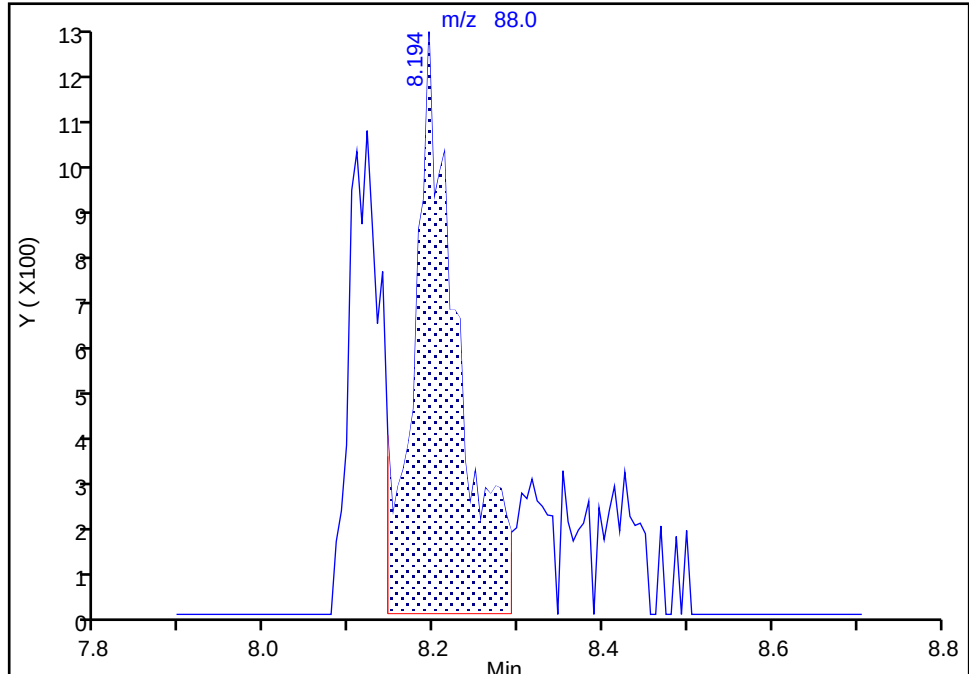
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X13.D
Injection Date: 14-Jun-2024 22:51:30 Instrument ID: 10193
Lims ID: IC std2 0.5
Client ID:
Operator ID: MEC29284 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

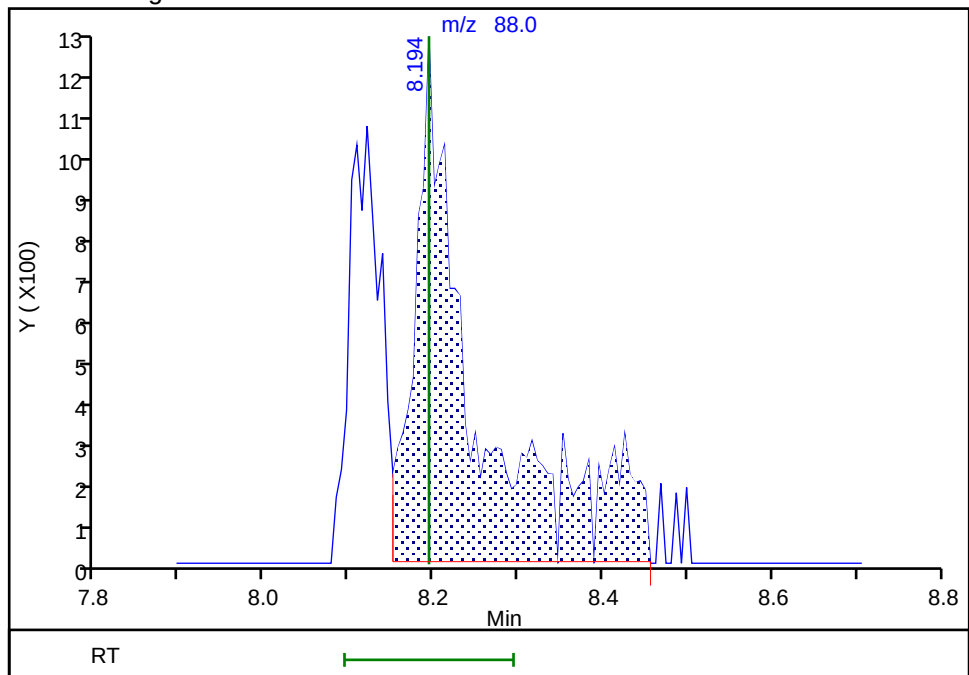
RT: 8.19
Area: 4584
Amount: 19.127091
Amount Units: ug/l

Processing Integration Results



RT: 8.19
Area: 6332
Amount: 26.861982
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:27:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X14.D
 Lims ID: IC std3 1
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 14-Jun-2024 23:14:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0116724-015
 Misc. Info.: IC STD1 LG
 Operator ID: MEC29284 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 17-Jun-2024 19:28:43 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1606

First Level Reviewer: UCB5

Date: 16-Jun-2024 13:34:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.799	1.799	0.000	99	70836	1.00	0.9587	
5 Chloromethane	50	1.988	1.982	0.006	99	80305	1.00	0.9619	
6 Vinyl chloride	62	2.085	2.085	0.000	98	78986	1.00	0.9614	
7 Butadiene	39	2.092	2.085	0.007	90	88324	1.00	1.01	
9 Bromomethane	94	2.402	2.396	0.006	90	55079	1.00	0.9531	
10 Chloroethane	64	2.451	2.445	0.006	100	45415	1.00	0.9652	
11 Dichlorofluoromethane	67	2.695	2.689	0.006	97	117409	1.00	0.9632	
13 Pentane	43	2.738	2.738	0.000	97	76739	1.00	0.9404	
12 Trichlorofluoromethane	101	2.744	2.744	0.000	97	92461	1.00	0.9673	M
14 Ethyl ether	59	2.921	2.921	0.000	91	42704	1.00	0.9891	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.018	3.018	0.000	91	66197	1.00	0.9411	
17 Acrolein	56	3.079	3.073	0.006	100	325233	50.1	50.3	
18 1,1-Dichloroethene	96	3.195	3.195	0.000	96	48730	1.00	0.9571	
20 Acetone	43	3.225	3.219	0.006	100	79646	10.0	9.57	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.244	3.244	0.000	89	50001	1.00	0.9547	
24 Isopropyl alcohol	45	3.378	3.366	0.012	42	30804	20.0	18.0	
22 Iodomethane	142	3.366	3.372	-0.006	97	102351	1.00	0.9656	
23 Ethyl bromide	108	3.390	3.396	-0.006	96	46078	1.00	0.99	
25 Carbon disulfide	76	3.457	3.463	-0.006	98	157757	1.00	0.9547	M
26 Methyl acetate	43	3.591	3.585	0.006	93	22365	1.00	0.9358	
29 3-Chloro-1-propene	41	3.622	3.616	0.006	92	82764	1.00	0.9787	
30 Methylene Chloride	84	3.786	3.786	0.000	91	59785	1.00	0.9857	
* 31 t-Butyl alcohol-d10 (IS)	65	3.792	3.792	0.000	80	167862	50.0	50.0	
32 2-Methyl-2-propanol	59	3.908	3.908	0.000	100	66064	20.0	20.4	
33 Acrylonitrile	53	4.097	4.091	0.006	99	30413	2.50	2.50	
35 trans-1,2-Dichloroethene	96	4.152	4.146	0.006	98	59615	1.00	0.9813	
34 Methyl tert-butyl ether	73	4.152	4.146	0.006	89	152192	1.00	0.9795	
36 Hexane	57	4.555	4.561	-0.007	92	73921	1.00	0.9368	
37 1,1-Dichloroethane	63	4.811	4.804	0.007	95	101800	1.00	0.9754	
39 Isopropyl ether	45	4.872	4.871	0.001	93	181962	1.00	0.9782	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.914	4.914	0.000	89	83112	1.00	0.9602	
41 Tert-butyl ethyl ether	59	5.408	5.414	-0.006	98	174560	1.00	0.9578	
42 2-Butanone (MEK)	43	5.621	5.615	0.006	100	155831	10.0	10.2	
43 cis-1,2-Dichloroethene	96	5.652	5.652	0.000	80	66881	1.00	0.9801	
44 2,2-Dichloropropane	77	5.676	5.670	0.006	87	83180	1.00	0.9615	
45 Propionitrile	54	5.725	5.719	0.006	98	81001	20.0	19.7	
47 Methacrylonitrile	67	5.932	5.926	0.006	91	154888	10.0	10.3	
49 Tetrahydrofuran	71	5.981	5.981	0.000	80	24293	5.00	5.09	
48 Chlorobromomethane	128	5.993	5.987	0.006	88	30909	1.00	0.9807	
50 Chloroform	83	6.146	6.146	0.000	93	108163	1.00	0.9783	
S 52 1,2-Dichloroethene, Total	100				0			1.96	
\$ 54 Dibromofluoromethane (Surr)	113	6.371	6.365	0.006	94	537659	10.0	9.98	
53 1,1,1-Trichloroethane	97	6.371	6.371	0.000	43	88597	1.00	0.9592	
55 Cyclohexane	56	6.463	6.463	0.000	89	93635	1.00	0.9518	
57 1,1-Dichloropropene	75	6.585	6.585	0.001	95	78774	1.00	0.9540	
56 Carbon tetrachloride	117	6.585	6.585	0.001	90	81258	1.00	0.9714	
58 Isobutyl alcohol	41	6.780	6.780	0.000	95	60786	50.0	52.2	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.822	6.822	0.000	99	111993	10.0	10.2	
60 Benzene	78	6.847	6.853	-0.006	94	242685	1.00	0.9779	
61 1,2-Dichloroethane	62	6.926	6.926	0.000	97	63473	1.00	1.00	
64 Tert-amyl methyl ether	73	7.060	7.060	0.000	99	165331	1.00	0.9761	
* 65 Fluorobenzene (IS)	96	7.267	7.267	0.000	99	2225227	10.0	10.0	
66 n-Heptane	43	7.286	7.286	0.000	92	77827	1.00	0.9511	
67 n-Butanol	56	7.688	7.682	0.006	88	100653	87.5	94.1	
68 Trichloroethene	95	7.755	7.755	0.000	96	66219	1.00	0.9692	
69 Methylcyclohexane	83	8.066	8.066	0.000	89	103134	1.00	0.9418	
70 1,2-Dichloropropane	63	8.096	8.096	0.000	97	61513	1.00	0.9683	
71 2-ethoxy-2-methyl butane	87	8.121	8.127	-0.006	94	99574	1.00	0.9640	
74 1,4-Dioxane	88	8.206	8.194	0.012	31	11418	50.0	54.4	M
73 Methyl methacrylate	69	8.200	8.200	0.000	90	32756	1.00	1.03	
72 Dibromomethane	93	8.206	8.206	0.000	87	31762	1.00	0.9816	
76 Dichlorobromomethane	83	8.456	8.456	0.000	99	73456	1.00	0.9581	
77 2-Nitropropane	41	8.743	8.743	0.000	97	42567	5.00	4.99	
78 1-Bromo-2-chloroethane	63	8.852	8.846	0.006	98	61436	1.00	0.9889	
80 cis-1,3-Dichloropropene	75	9.023	9.029	-0.006	97	95985	1.00	0.9672	
82 4-Methyl-2-pentanone (MIBK)	43	9.230	9.230	0.000	96	390263	10.0	10.0	
\$ 83 Toluene-d8 (Surr)	98	9.358	9.358	0.000	93	2220438	10.0	9.91	
84 Toluene	92	9.438	9.444	-0.006	98	162487	1.00	0.9783	M
85 trans-1,3-Dichloropropene	75	9.730	9.730	0.000	92	80904	1.00	0.9559	
86 Ethyl methacrylate	69	9.810	9.803	0.007	89	69428	1.00	0.9577	
87 1,1,2-Trichloroethane	97	9.944	9.944	0.000	89	47044	1.00	0.9789	
88 Tetrachloroethene	166	10.023	10.023	0.000	97	81502	1.00	0.9881	
S 107 1,3-Dichloropropene, Total	100				0			1.92	
89 1,3-Dichloropropane	76	10.114	10.114	0.000	90	78521	1.00	0.9832	
106 2-Hexanone	43	10.181	10.181	0.000	96	291226	10.0	10.3	
108 Chlorodibromomethane	129	10.334	10.334	0.000	88	59418	1.00	0.9625	
110 Ethylene Dibromide	107	10.444	10.444	0.000	99	45837	1.00	0.9619	
* 111 Chlorobenzene-d5 (IS)	117	10.901	10.901	0.000	84	1748651	10.0	10.0	
112 1-Chlorohexane	91	10.919	10.919	0.000	96	92914	1.00	0.9545	
113 Chlorobenzene	112	10.925	10.925	0.000	97	194217	1.00	0.9783	
114 1,1,1,2-Tetrachloroethane	131	11.017	11.017	0.000	96	67152	1.00	0.9596	
115 Ethylbenzene	91	11.023	11.023	0.000	98	314251	1.00	0.9636	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.145	11.145	0.000	97	258327	2.00	1.93	
S 117 Xylenes, Total	106				0			2.91	
118 o-Xylene	106	11.486	11.486	0.000	95	128688	1.00	0.9774	
119 Styrene	104	11.498	11.498	0.000	95	208946	1.00	0.9578	
120 Bromoform	173	11.657	11.657	0.000	98	37699	1.00	0.9474	
121 Isopropylbenzene	105	11.797	11.797	0.000	95	298739	1.00	0.9560	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.937	11.943	-0.006	94	839803	10.0	9.97	
126 1,1,2,2-Tetrachloroethane	83	12.053	12.053	0.000	75	55271	1.00	0.9337	
125 Bromobenzene	156	12.053	12.059	-0.006	90	86113	1.00	0.9654	
127 trans-1,4-Dichloro-2-butene	53	12.084	12.083	0.001	92	134027	10.0	9.64	
128 1,2,3-Trichloropropane	110	12.096	12.096	0.000	78	15439	1.00	0.9392	
129 N-Propylbenzene	91	12.132	12.138	-0.006	98	368283	1.00	0.9603	
130 2-Chlorotoluene	126	12.205	12.211	-0.006	98	82375	1.00	0.9579	
131 1,3,5-Trimethylbenzene	105	12.279	12.279	0.000	94	273517	1.00	0.9549	
132 4-Chlorotoluene	126	12.303	12.303	0.000	97	86680	1.00	0.9669	
133 tert-Butylbenzene	134	12.522	12.522	0.000	92	65664	1.00	0.9533	
134 Pentachloroethane	167	12.553	12.553	0.000	80	50310	1.00	0.9744	
135 1,2,4-Trimethylbenzene	105	12.565	12.565	0.000	97	281050	1.00	0.9503	
136 sec-Butylbenzene	105	12.693	12.693	0.000	93	354613	1.00	0.9595	
137 1,3-Dichlorobenzene	146	12.785	12.785	0.000	98	167242	1.00	0.9490	
138 4-Isopropyltoluene	119	12.803	12.803	0.000	97	312495	1.00	0.9408	
* 139 1,4-Dichlorobenzene-d4	152	12.846	12.846	0.000	93	1014032	10.0	10.0	M
140 1,4-Dichlorobenzene	146	12.864	12.864	0.000	96	169030	1.00	0.9375	
141 1,2,3-Trimethylbenzene	120	12.876	12.876	0.000	98	130133	1.00	0.9532	
142 Benzyl chloride	126	12.943	12.943	0.000	98	25252	1.00	0.9309	
145 p-Diethylbenzene	119	13.077	13.083	-0.006	96	195957	1.00	0.9467	
143 n-Butylbenzene	92	13.102	13.102	0.000	97	150720	1.00	0.9450	
144 1,2-Dichlorobenzene	146	13.126	13.126	0.000	99	152787	1.00	0.9495	
148 1,2-Dibromo-3-Chloropropane	155	13.681	13.681	0.000	91	8712	1.00	0.8889	
149 1,3,5-Trichlorobenzene	180	13.803	13.803	0.000	98	127654	1.00	0.9337	
150 1,2,4-Trichlorobenzene	180	14.236	14.235	0.001	94	98721	1.00	0.8909	
151 Hexachlorobutadiene	225	14.321	14.321	0.000	96	54266	1.00	0.9485	
152 Naphthalene	128	14.418	14.418	0.000	96	153318	1.00	0.8742	
153 1,2,3-Trichlorobenzene	180	14.565	14.565	0.000	96	76723	1.00	0.8879	
154 2-Methylnaphthalene	142	15.174	15.174	0.000	92	60090	1.00	0.7737	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00133

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00140

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00214

Amount Added: 2.00

Units: uL

MSV_HP25_ISSS_00090

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 17-Jun-2024 19:28:44

Chrom Revision: 2.3 03-Jun-2024 20:58:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X14.D

Injection Date: 14-Jun-2024 23:14:30

Instrument ID: 10193

Operator ID: MEC29284

Lims ID: IC std3 1

Worklist Smp#: 15

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

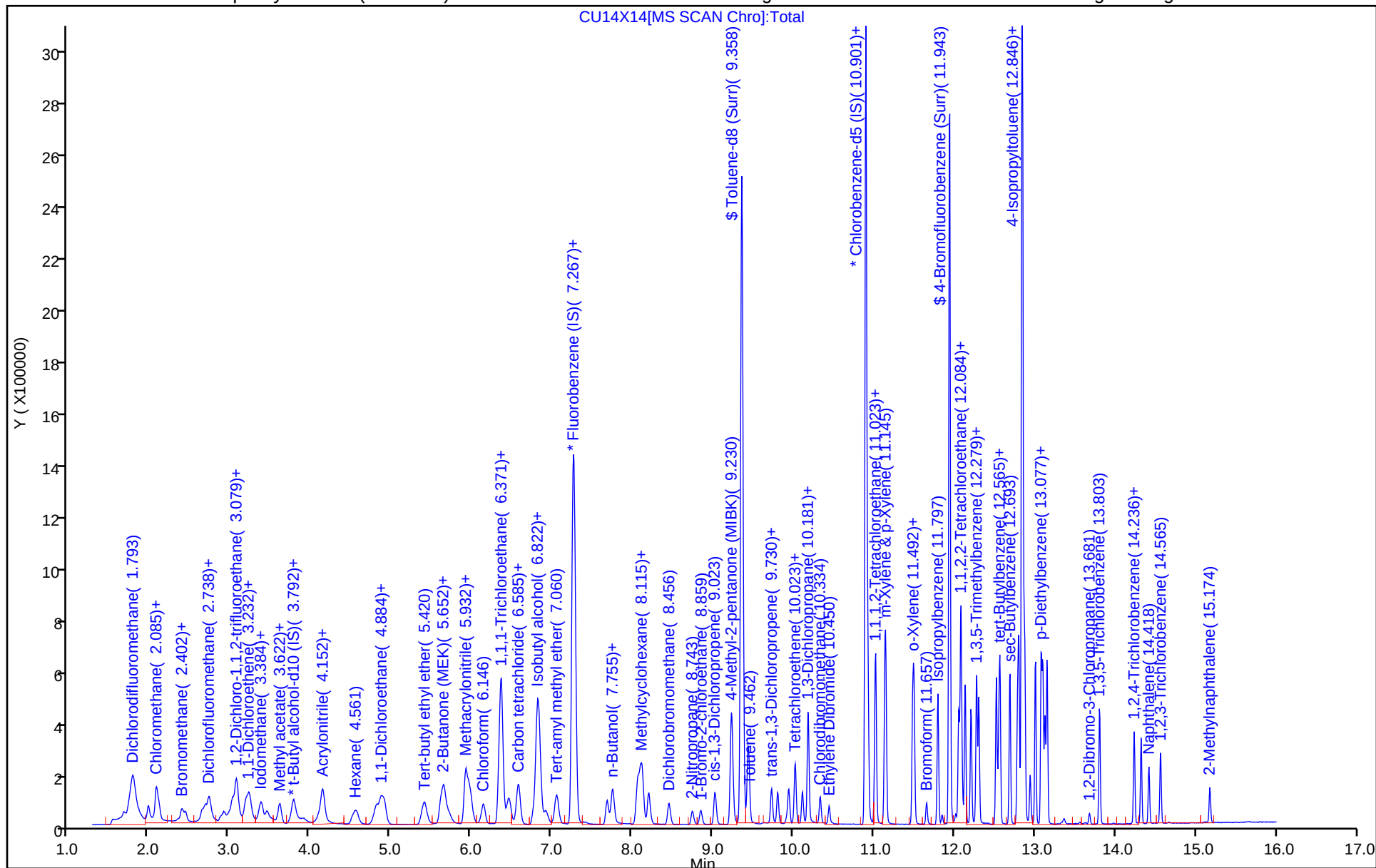
ALS Bottle#: 14

Method: MSV_10193_25mL

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

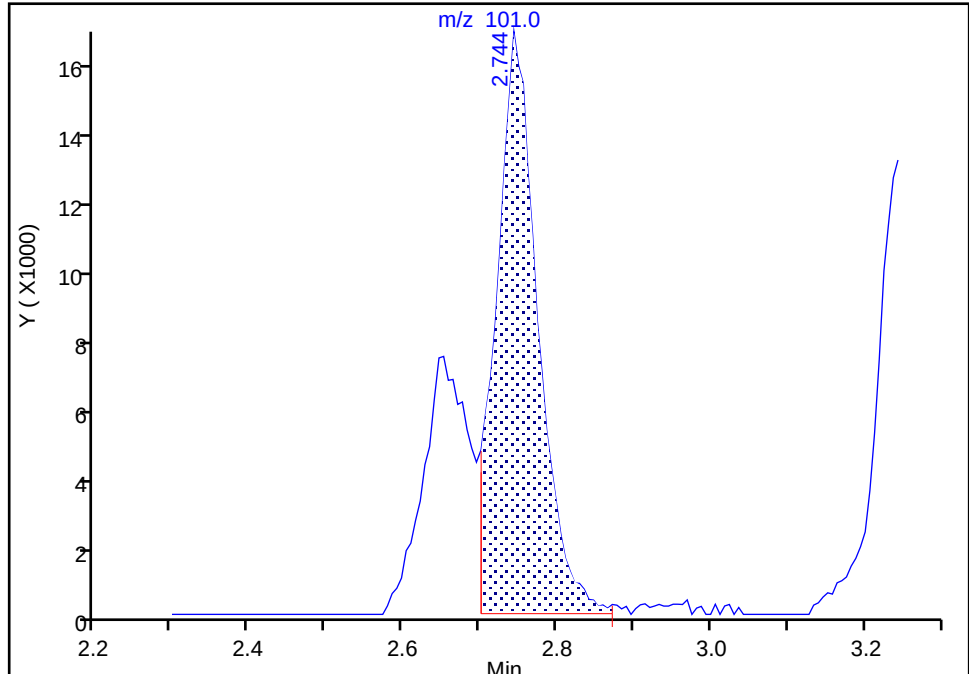
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X14.D
Injection Date: 14-Jun-2024 23:14:30 Instrument ID: 10193
Lims ID: IC std3 1
Client ID:
Operator ID: MEC29284 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

12 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

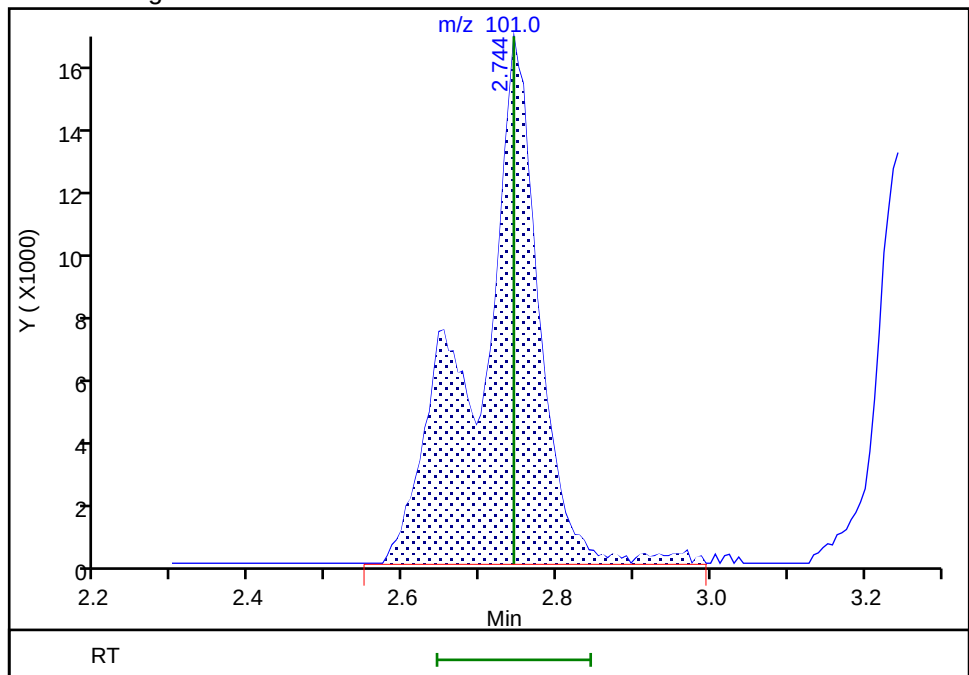
RT: 2.74
Area: 61538
Amount: 0.712073
Amount Units: ug/l

Processing Integration Results



RT: 2.74
Area: 92461
Amount: 0.967253
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:29:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

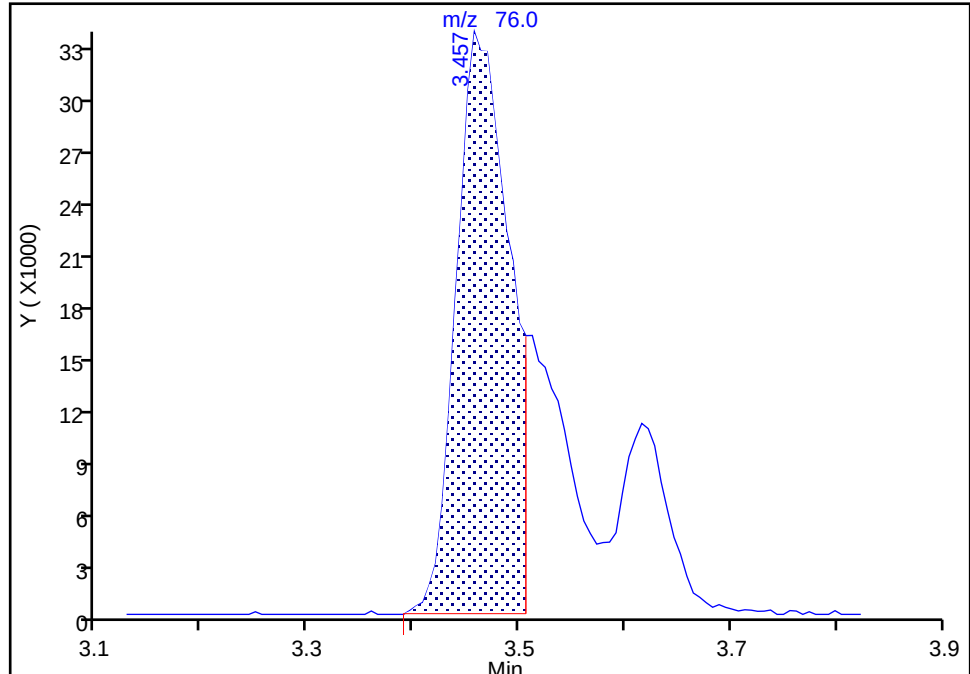
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X14.D
Injection Date: 14-Jun-2024 23:14:30 Instrument ID: 10193
Lims ID: IC std3 1
Client ID:
Operator ID: MEC29284 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

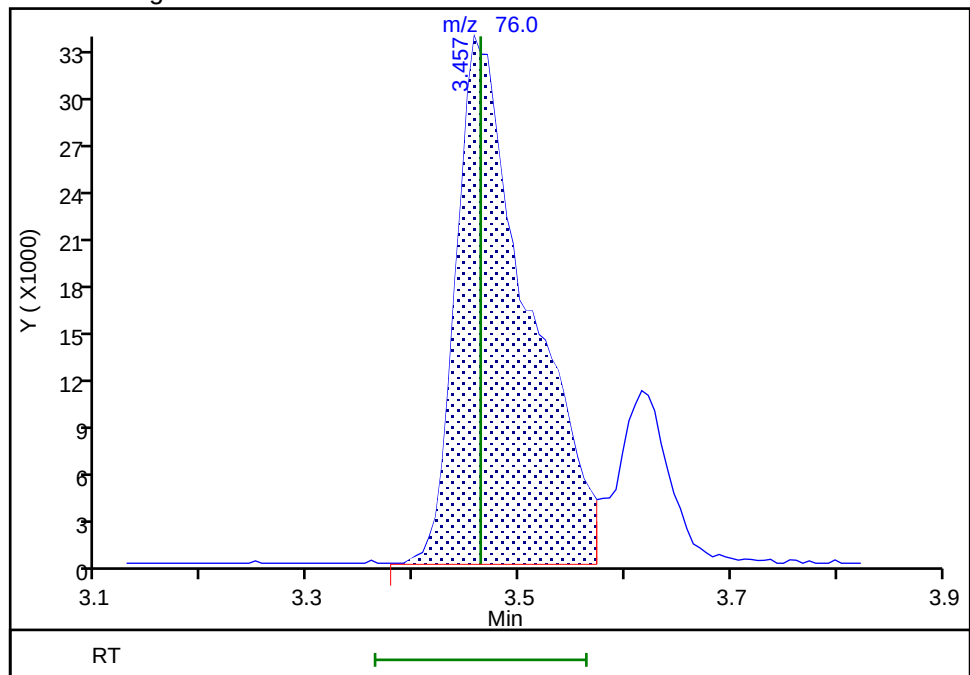
RT: 3.46
Area: 117770
Amount: 0.769520
Amount Units: ug/l

Processing Integration Results



RT: 3.46
Area: 157757
Amount: 0.954664
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:29:40 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

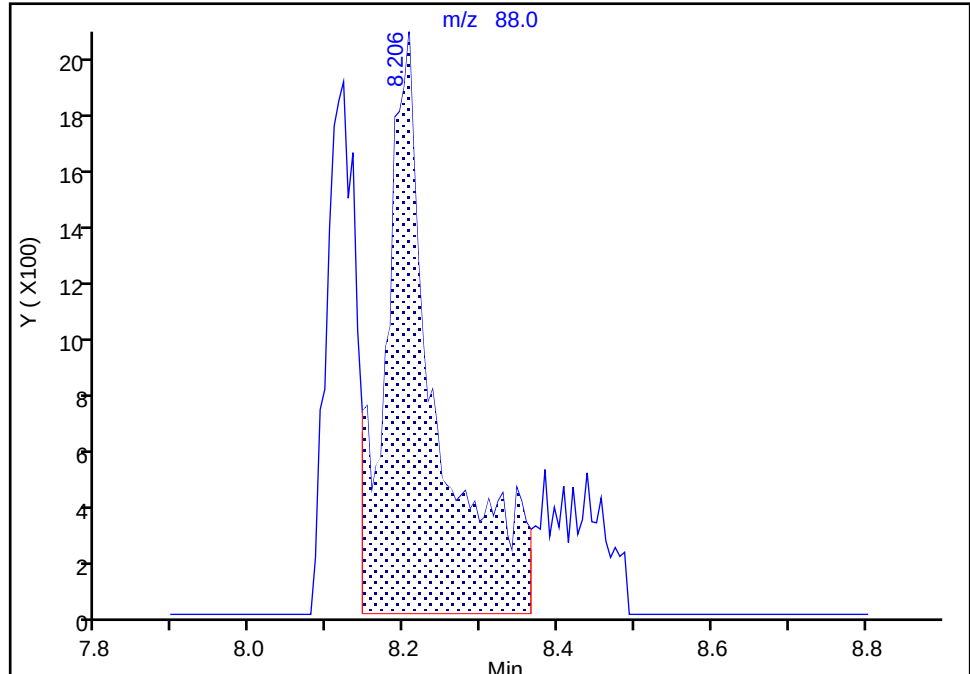
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X14.D
Injection Date: 14-Jun-2024 23:14:30 Instrument ID: 10193
Lims ID: IC std3 1
Client ID:
Operator ID: MEC29284 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

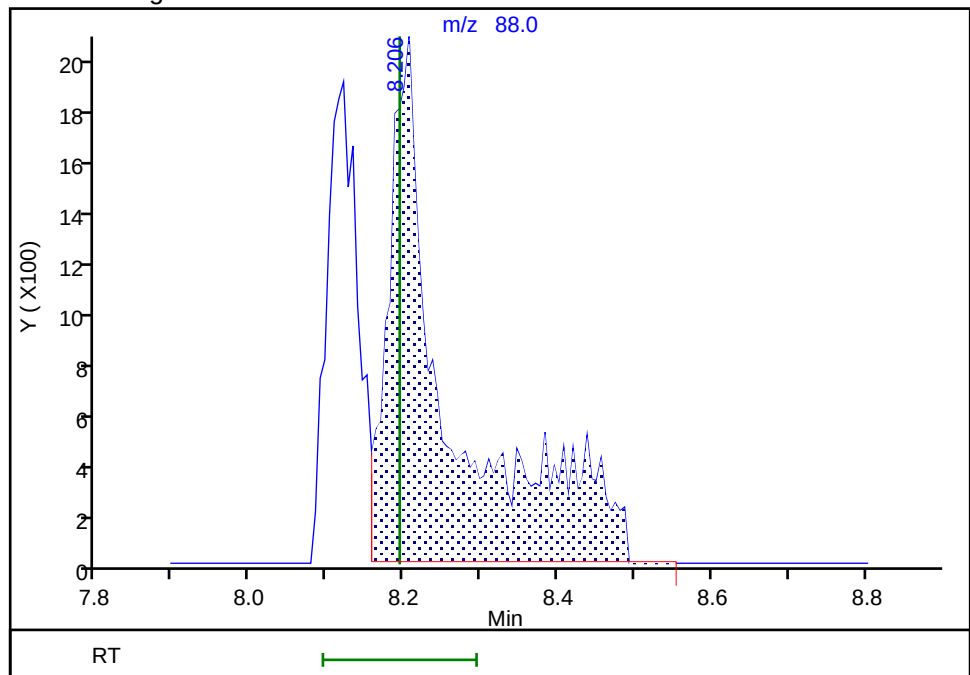
RT: 8.21
Area: 9712
Amount: 43.667535
Amount Units: ug/l

Processing Integration Results



RT: 8.21
Area: 11418
Amount: 54.370884
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:31:55 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

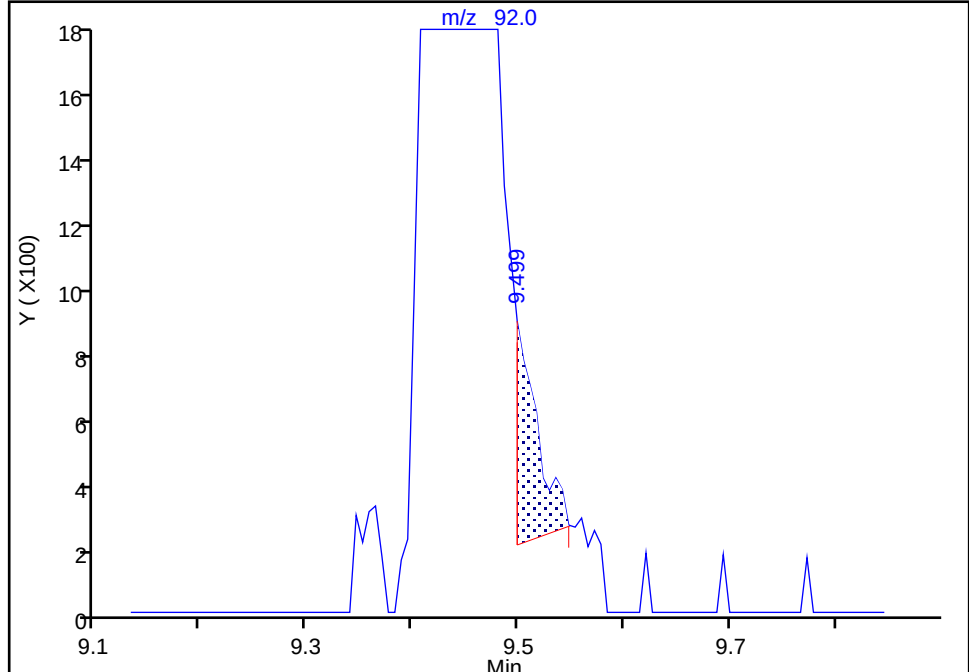
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X14.D
Injection Date: 14-Jun-2024 23:14:30 Instrument ID: 10193
Lims ID: IC std3 1
Client ID:
Operator ID: MEC29284 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

84 Toluene, CAS: 108-88-3

Signal: 1

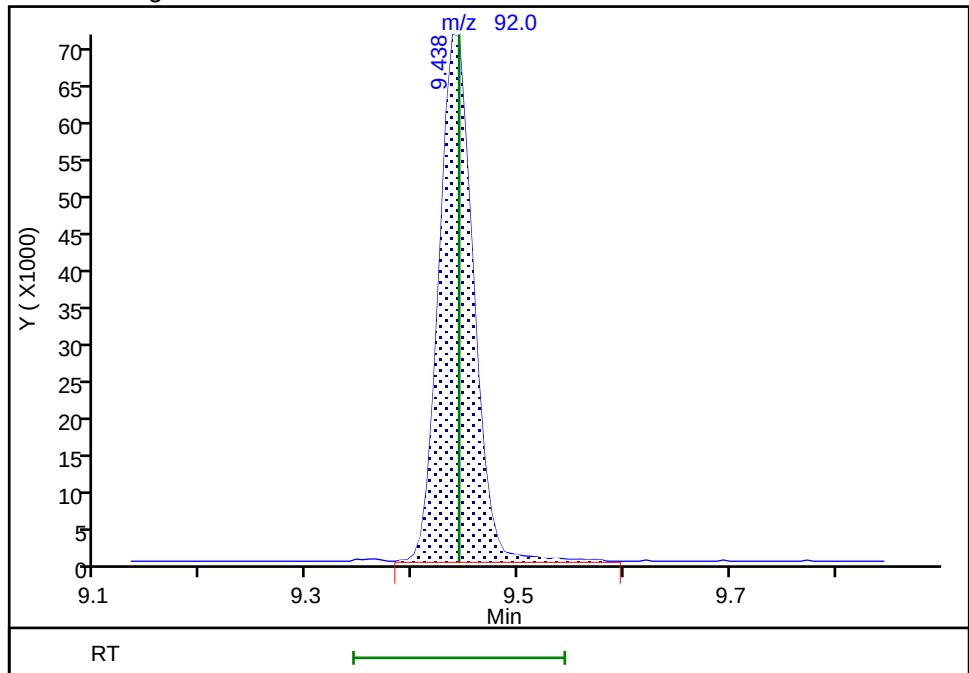
RT: 9.50
Area: 959
Amount: 0.006705
Amount Units: ug/l

Processing Integration Results



RT: 9.44
Area: 162487
Amount: 0.978276
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:32:23 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

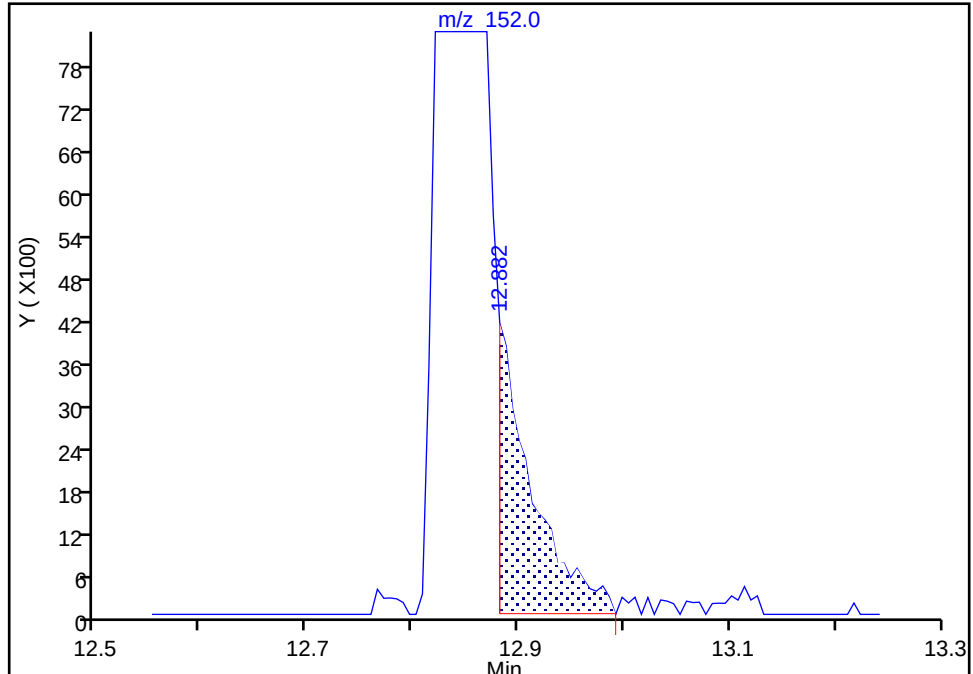
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X14.D
Injection Date: 14-Jun-2024 23:14:30 Instrument ID: 10193
Lims ID: IC std3 1
Client ID:
Operator ID: MEC29284 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 139 1,4-Dichlorobenzene-d4, CAS: 3855-82-1
Signal: 1

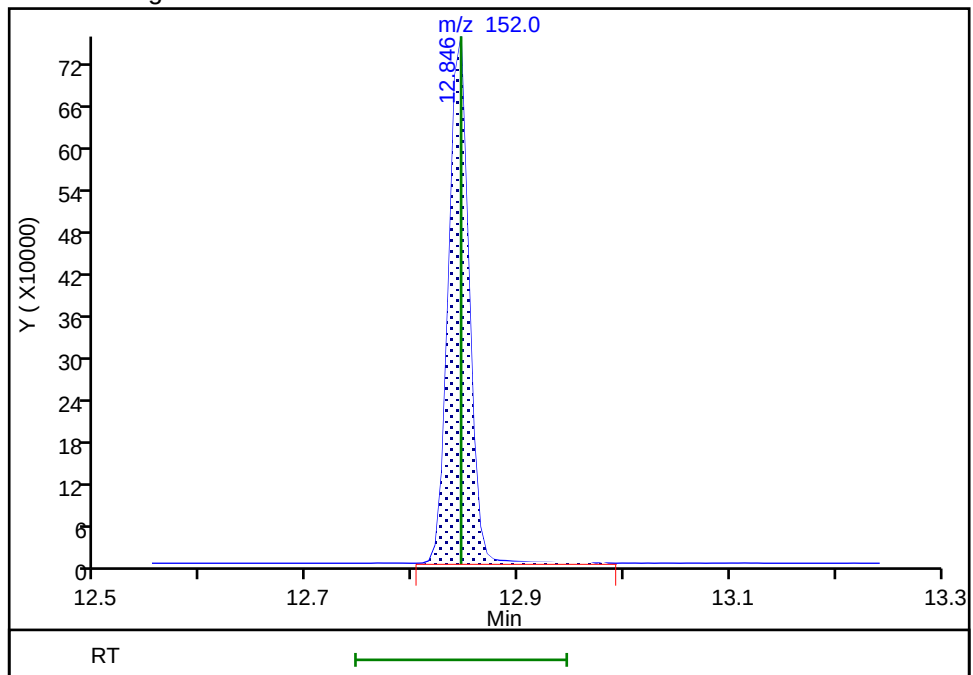
RT: 12.88
Area: 9367
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 12.85
Area: 1014032
Amount: 10.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:33:43 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X15.D
 Lims ID: IC std4 2
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 14-Jun-2024 23:36:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0116724-016
 Misc. Info.: IC STD2 LG
 Operator ID: MEC29284 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 17-Jun-2024 19:28:48 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1606

First Level Reviewer: UCB5

Date: 16-Jun-2024 13:39:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.799	1.799	0.000	99	144773	2.00	1.97	
5 Chloromethane	50	1.988	1.982	0.006	99	171285	2.00	2.06	
6 Vinyl chloride	62	2.085	2.085	0.000	98	168879	2.00	2.06	
7 Butadiene	39	2.085	2.085	0.000	91	176166	2.00	2.01	
9 Bromomethane	94	2.402	2.396	0.006	89	116580	2.00	2.02	M
10 Chloroethane	64	2.445	2.445	0.000	100	95383	2.00	2.03	
11 Dichlorofluoromethane	67	2.689	2.689	0.000	97	250225	2.00	2.06	
13 Pentane	43	2.738	2.738	0.000	97	157282	2.00	1.93	
12 Trichlorofluoromethane	101	2.744	2.744	0.000	98	194248	2.00	2.04	M
14 Ethyl ether	59	2.927	2.921	0.006	89	85154	2.00	1.98	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.018	3.018	0.000	90	139224	2.00	1.99	
17 Acrolein	56	3.079	3.073	0.006	99	660165	100.2	104.3	
18 1,1-Dichloroethene	96	3.201	3.195	0.006	97	101463	2.00	2.00	
20 Acetone	43	3.225	3.219	0.006	100	158143	20.0	19.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.244	3.244	0.000	89	104154	2.00	2.00	
24 Isopropyl alcohol	45	3.378	3.366	0.012	42	70393	40.0	42.0	
22 Iodomethane	142	3.372	3.372	0.000	97	213794	2.00	2.02	
23 Ethyl bromide	108	3.390	3.396	-0.006	97	91587	2.00	1.98	
25 Carbon disulfide	76	3.463	3.463	0.000	99	335862	2.00	2.04	M
26 Methyl acetate	43	3.591	3.585	0.006	52	47717	2.00	2.04	
29 3-Chloro-1-propene	41	3.622	3.616	0.006	91	170737	2.00	2.03	
30 Methylene Chloride	84	3.780	3.786	-0.006	92	115124	2.00	1.90	
* 31 t-Butyl alcohol-d10 (IS)	65	3.799	3.792	0.007	96	164311	50.0	50.0	
32 2-Methyl-2-propanol	59	3.914	3.908	0.006	99	135456	40.0	42.6	
33 Acrylonitrile	53	4.097	4.091	0.006	99	62467	5.00	5.25	
35 trans-1,2-Dichloroethene	96	4.152	4.146	0.006	99	122631	2.00	2.03	
34 Methyl tert-butyl ether	73	4.146	4.146	0.000	90	303566	2.00	1.96	
36 Hexane	57	4.567	4.561	0.006	91	154924	2.00	1.97	
37 1,1-Dichloroethane	63	4.804	4.804	0.000	95	208917	2.00	2.01	
39 Isopropyl ether	45	4.871	4.871	0.000	94	366516	2.00	1.98	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.914	4.914	0.000	89	173359	2.00	2.01	
41 Tert-butyl ethyl ether	59	5.414	5.414	0.000	97	353608	2.00	1.95	
42 2-Butanone (MEK)	43	5.621	5.615	0.006	99	317542	20.0	21.2	
43 cis-1,2-Dichloroethene	96	5.652	5.652	0.000	80	136749	2.00	2.01	
44 2,2-Dichloropropane	77	5.664	5.670	-0.006	86	174661	2.00	2.03	
45 Propionitrile	54	5.719	5.719	0.000	99	174466	40.0	43.2	
47 Methacrylonitrile	67	5.926	5.926	0.000	91	311440	20.0	21.1	
49 Tetrahydrofuran	71	5.993	5.981	0.012	91	47576	10.0	10.2	
48 Chlorobromomethane	128	5.987	5.987	0.000	91	62213	2.00	1.98	
50 Chloroform	83	6.152	6.146	0.006	93	214097	2.00	1.94	
S 52 1,2-Dichloroethene, Total	100				0			4.04	
\$ 54 Dibromofluoromethane (Surr)	113	6.365	6.365	0.000	94	535995	10.0	9.98	
53 1,1,1-Trichloroethane	97	6.371	6.371	0.000	52	185171	2.00	2.01	
55 Cyclohexane	56	6.463	6.463	0.000	89	192345	2.00	1.96	
57 1,1-Dichloropropene	75	6.585	6.585	0.001	96	166607	2.00	2.02	
56 Carbon tetrachloride	117	6.585	6.585	0.001	96	166872	2.00	2.00	
58 Isobutyl alcohol	41	6.774	6.780	-0.006	93	121374	100.0	106.5	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.828	6.822	0.006	99	112037	10.0	10.2	
60 Benzene	78	6.847	6.853	-0.006	95	497277	2.00	2.01	
61 1,2-Dichloroethane	62	6.926	6.926	0.000	97	123070	2.00	1.95	
64 Tert-amyl methyl ether	73	7.060	7.060	0.000	98	330886	2.00	1.96	
* 65 Fluorobenzene (IS)	96	7.267	7.267	0.000	99	2217927	10.0	10.0	
66 n-Heptane	43	7.286	7.286	0.000	92	162254	2.00	1.99	
67 n-Butanol	56	7.688	7.682	0.006	87	189838	175.0	181.2	
68 Trichloroethene	95	7.749	7.755	-0.006	96	136090	2.00	2.00	
69 Methylcyclohexane	83	8.066	8.066	0.000	89	212655	2.00	1.95	
70 1,2-Dichloropropane	63	8.096	8.096	0.000	97	125217	2.00	1.98	
71 2-ethoxy-2-methyl butane	87	8.121	8.127	-0.006	94	202214	2.00	1.96	
74 1,4-Dioxane	88	8.200	8.194	0.006	33	21664	100.0	105.4	M
73 Methyl methacrylate	69	8.200	8.200	0.000	91	62707	2.00	2.02	
72 Dibromomethane	93	8.206	8.206	0.000	92	62717	2.00	1.94	
76 Dichlorobromomethane	83	8.456	8.456	0.000	99	151383	2.00	1.98	
77 2-Nitropropane	41	8.749	8.743	0.006	98	87676	10.0	10.5	
78 1-Bromo-2-chloroethane	63	8.852	8.846	0.006	98	123337	2.00	1.99	
80 cis-1,3-Dichloropropene	75	9.029	9.029	0.000	97	196295	2.00	1.98	
82 4-Methyl-2-pentanone (MIBK)	43	9.230	9.230	0.000	96	796236	20.0	20.8	
\$ 83 Toluene-d8 (Surr)	98	9.358	9.358	0.000	93	2236758	10.0	10.0	
84 Toluene	92	9.438	9.444	-0.006	98	334619	2.00	2.02	
85 trans-1,3-Dichloropropene	75	9.730	9.730	0.000	91	163679	2.00	1.94	
86 Ethyl methacrylate	69	9.803	9.803	0.000	89	141167	2.00	1.96	
87 1,1,2-Trichloroethane	97	9.944	9.944	0.000	90	93498	2.00	1.95	
88 Tetrachloroethene	166	10.023	10.023	0.000	97	168026	2.00	2.05	
S 107 1,3-Dichloropropene, Total	100				0			3.93	
89 1,3-Dichloropropane	76	10.114	10.114	0.000	89	155118	2.00	1.95	
106 2-Hexanone	43	10.181	10.181	0.000	95	582286	20.0	21.0	
108 Chlorodibromomethane	129	10.334	10.334	0.000	90	119035	2.00	1.94	
110 Ethylene Dibromide	107	10.444	10.444	0.000	99	91926	2.00	1.94	
* 111 Chlorobenzene-d5 (IS)	117	10.901	10.901	0.000	84	1740765	10.0	10.0	
112 1-Chlorohexane	91	10.919	10.919	0.000	96	190414	2.00	1.96	
113 Chlorobenzene	112	10.925	10.925	0.000	98	402700	2.00	2.04	
114 1,1,1,2-Tetrachloroethane	131	11.017	11.017	0.000	96	138133	2.00	1.98	
115 Ethylbenzene	91	11.023	11.023	0.000	98	668127	2.00	2.06	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.145	11.145	0.000	97	547925	4.00	4.12	
S 117 Xylenes, Total	106				0			6.13	
118 o-Xylene	106	11.486	11.486	0.000	95	263830	2.00	2.01	
119 Styrene	104	11.498	11.498	0.000	94	445685	2.00	2.05	
120 Bromoform	173	11.657	11.657	0.000	98	75560	2.00	1.91	
121 Isopropylbenzene	105	11.797	11.797	0.000	95	638140	2.00	2.05	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.937	11.943	-0.006	94	835919	10.0	9.97	
126 1,1,2,2-Tetrachloroethane	83	12.053	12.053	0.000	74	115336	2.00	1.97	
125 Bromobenzene	156	12.053	12.059	-0.006	89	181597	2.00	2.06	
127 trans-1,4-Dichloro-2-butene	53	12.083	12.083	0.000	91	268439	20.0	19.5	
128 1,2,3-Trichloropropane	110	12.096	12.096	0.000	77	31832	2.00	1.96	
129 N-Propylbenzene	91	12.132	12.138	-0.006	98	799380	2.00	2.11	
130 2-Chlorotoluene	126	12.205	12.211	-0.006	98	179328	2.00	2.11	
131 1,3,5-Trimethylbenzene	105	12.279	12.279	0.000	94	585230	2.00	2.07	
132 4-Chlorotoluene	126	12.303	12.303	0.000	96	190563	2.00	2.15	
133 tert-Butylbenzene	134	12.522	12.522	0.000	92	142756	2.00	2.10	
134 Pentachloroethane	167	12.553	12.553	0.000	90	101387	2.00	1.99	
135 1,2,4-Trimethylbenzene	105	12.565	12.565	0.000	96	605865	2.00	2.07	
136 sec-Butylbenzene	105	12.693	12.693	0.000	93	758593	2.00	2.08	
137 1,3-Dichlorobenzene	146	12.785	12.785	0.000	98	371643	2.00	2.13	
138 4-Isopropyltoluene	119	12.803	12.803	0.000	97	690140	2.00	2.10	
* 139 1,4-Dichlorobenzene-d4	152	12.846	12.846	0.000	93	1002844	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.864	12.864	0.000	96	384186	2.00	2.15	
141 1,2,3-Trimethylbenzene	120	12.876	12.876	0.000	98	279095	2.00	2.07	
142 Benzyl chloride	126	12.943	12.943	0.000	98	51961	2.00	1.94	
145 p-Diethylbenzene	119	13.077	13.083	-0.006	96	434479	2.00	2.12	
143 n-Butylbenzene	92	13.102	13.102	0.000	97	335145	2.00	2.12	
144 1,2-Dichlorobenzene	146	13.126	13.126	0.000	99	334153	2.00	2.10	
148 1,2-Dibromo-3-Chloropropane	155	13.681	13.681	0.000	91	18306	2.00	1.89	
149 1,3,5-Trichlorobenzene	180	13.809	13.803	0.006	98	297617	2.00	2.20	
150 1,2,4-Trichlorobenzene	180	14.236	14.235	0.001	94	245810	2.00	2.24	
151 Hexachlorobutadiene	225	14.321	14.321	0.000	96	123230	2.00	2.18	
152 Naphthalene	128	14.418	14.418	0.000	96	359265	2.00	2.07	
153 1,2,3-Trichlorobenzene	180	14.565	14.565	0.000	96	187998	2.00	2.20	
154 2-Methylnaphthalene	142	15.174	15.174	0.000	92	160681	2.00	2.09	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00133

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00140

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00214

Amount Added: 2.00

Units: uL

MSV_HP25_ISSS_00090

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 17-Jun-2024 19:28:49

Chrom Revision: 2.3 03-Jun-2024 20:58:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X15.D

Injection Date: 14-Jun-2024 23:36:30

Instrument ID: 10193

Operator ID: MEC29284

Lims ID: IC std4 2

Worklist Smp#: 16

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

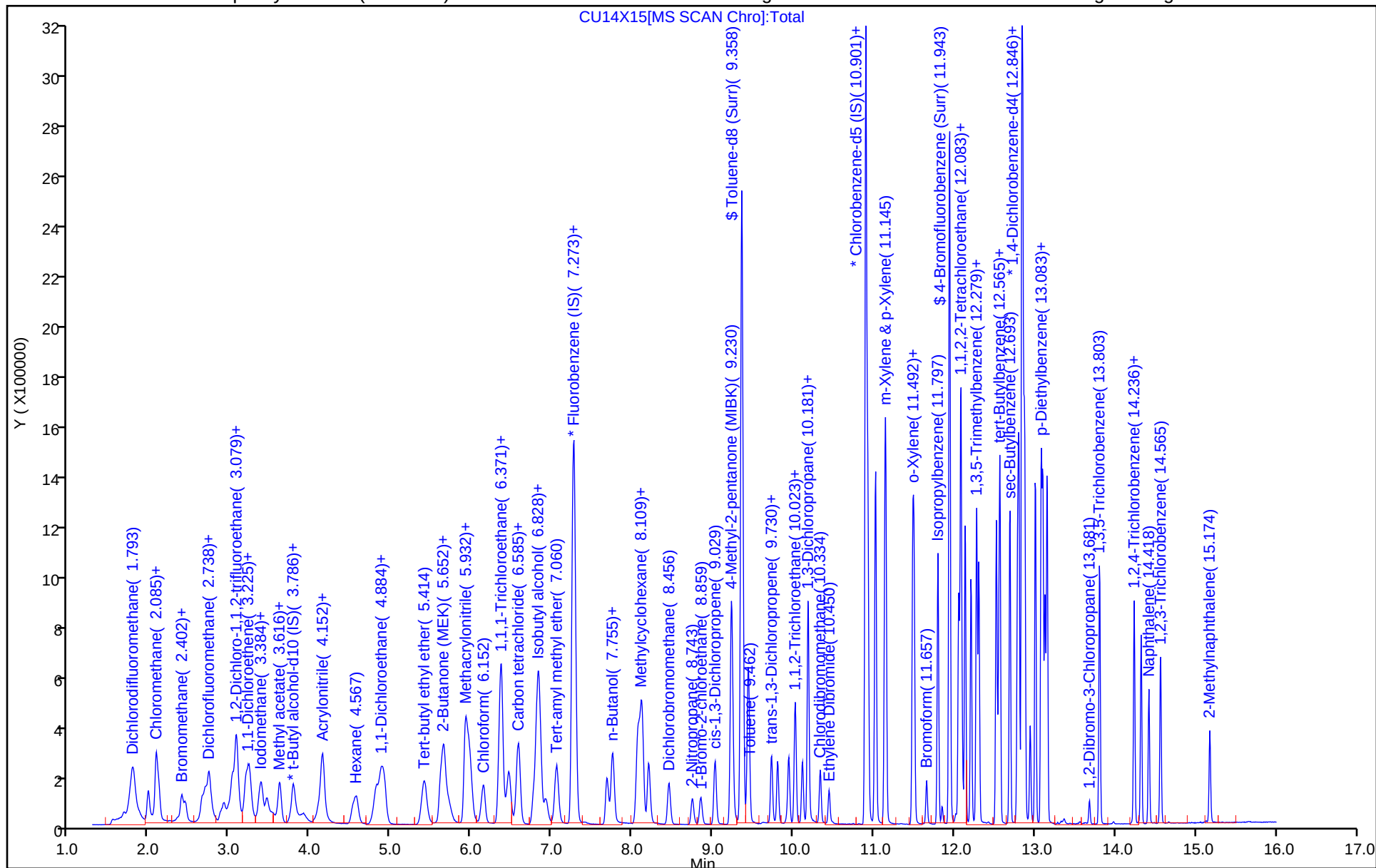
ALS Bottle#: 15

Method: MSV_10193_25mL

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

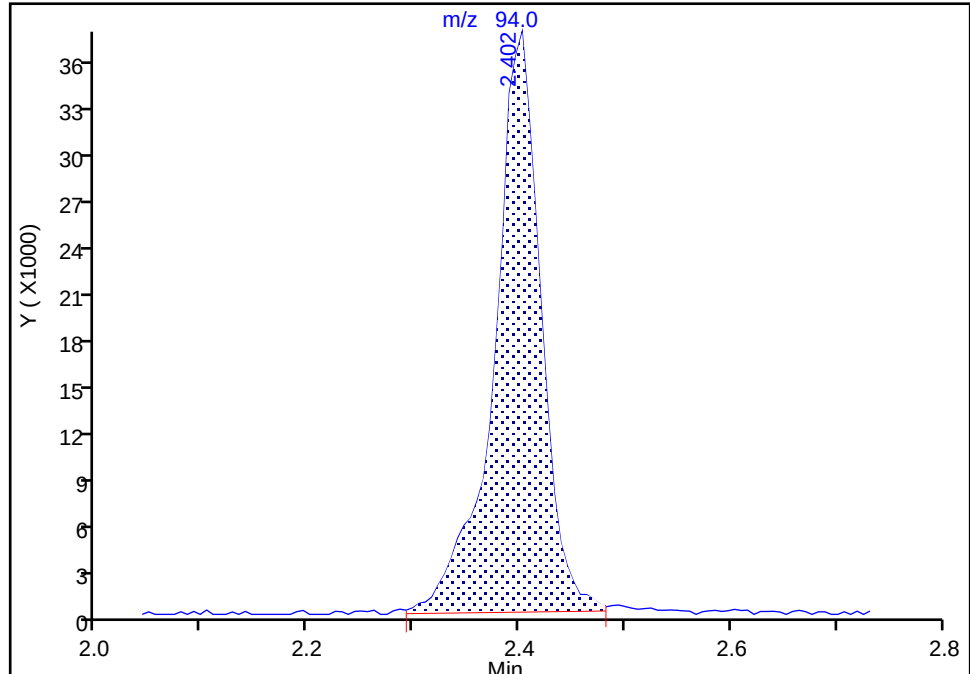
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X15.D
Injection Date: 14-Jun-2024 23:36:30 Instrument ID: 10193
Lims ID: IC std4 2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

9 Bromomethane, CAS: 74-83-9

Signal: 1

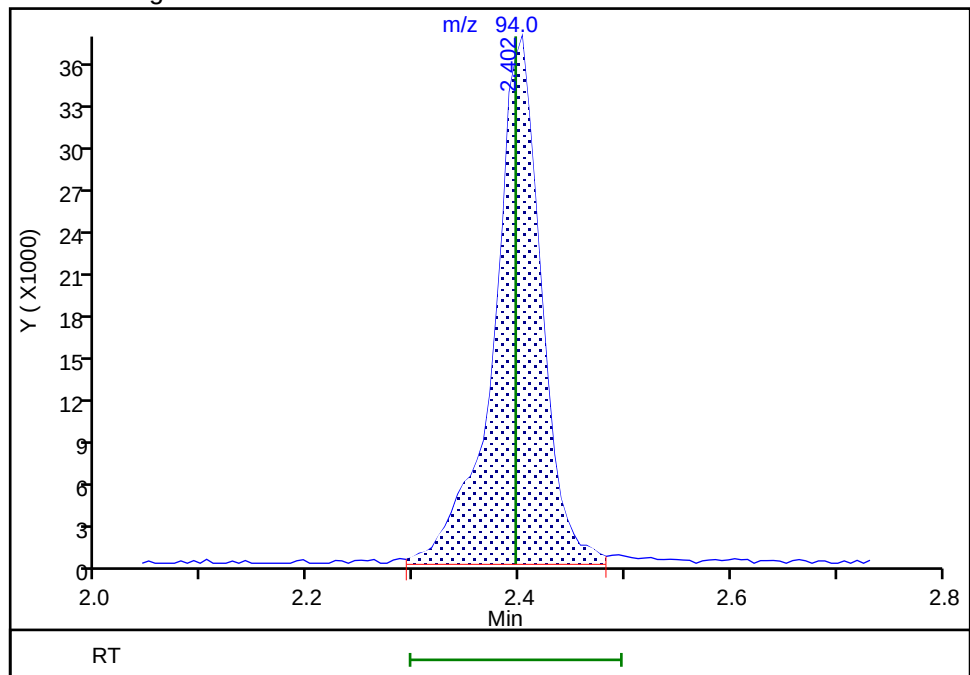
RT: 2.40
Area: 114818
Amount: 1.997776
Amount Units: ug/l

Processing Integration Results



RT: 2.40
Area: 116580
Amount: 2.024001
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:34:45 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

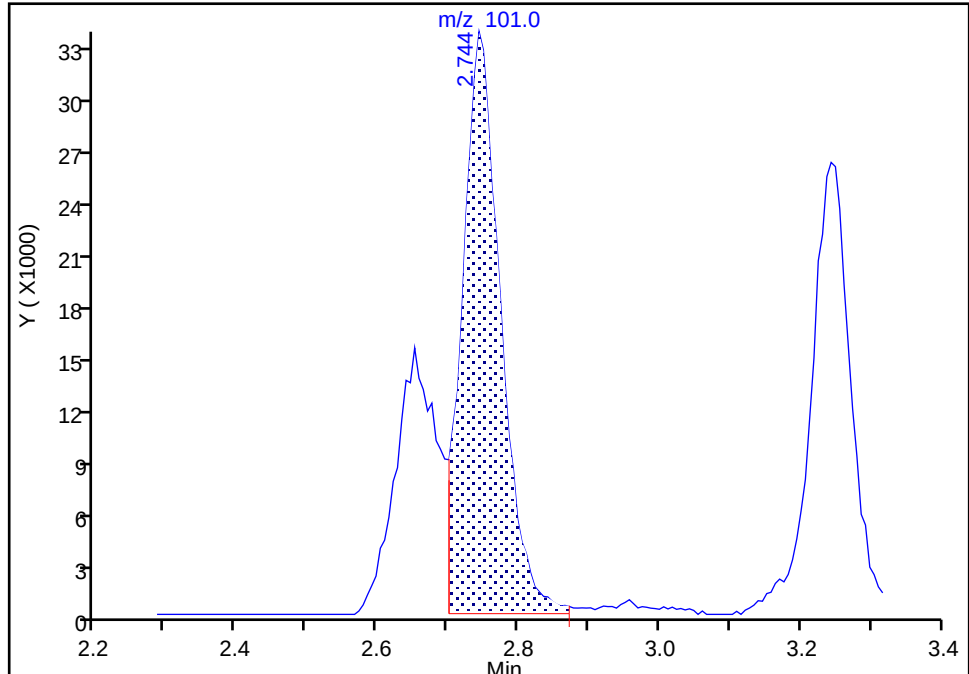
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X15.D
Injection Date: 14-Jun-2024 23:36:30 Instrument ID: 10193
Lims ID: IC std4 2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

12 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

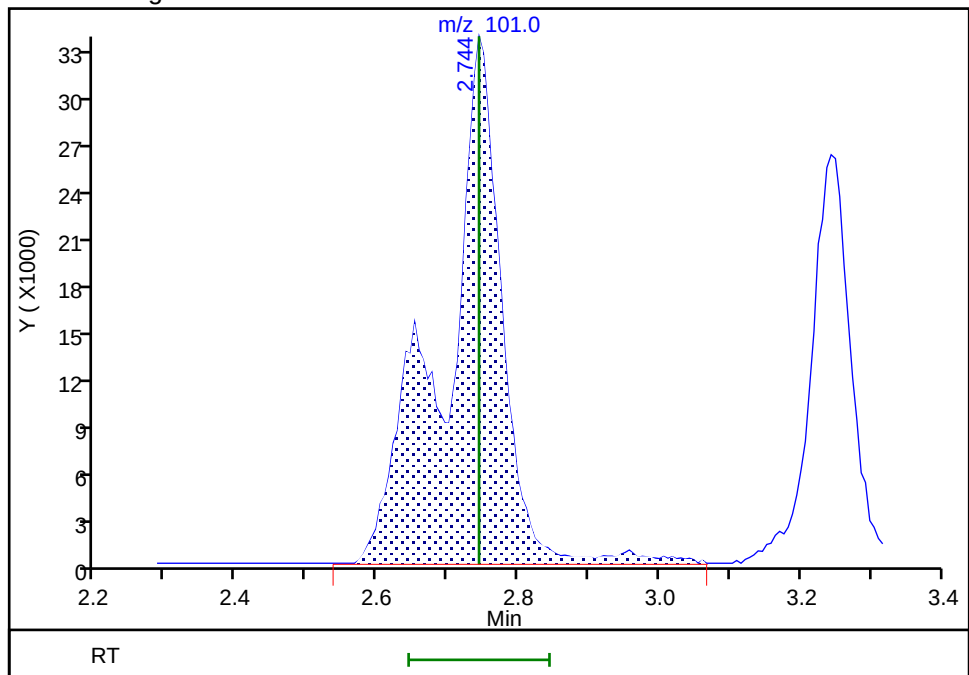
RT: 2.74
Area: 127927
Amount: 1.412926
Amount Units: ug/l

Processing Integration Results



RT: 2.74
Area: 194248
Amount: 2.038756
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:35:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

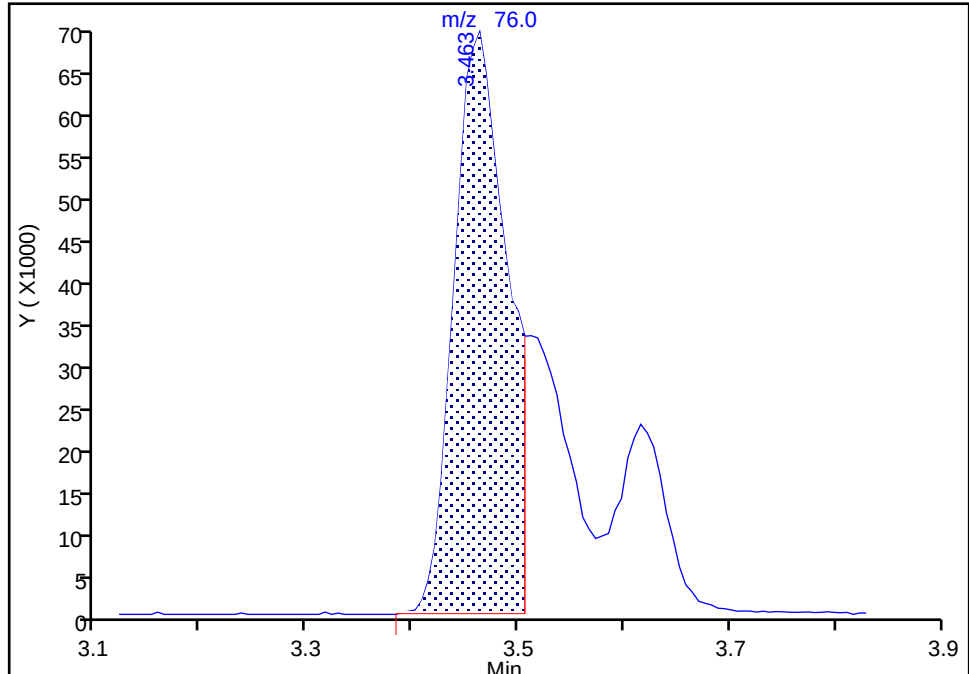
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X15.D
Injection Date: 14-Jun-2024 23:36:30 Instrument ID: 10193
Lims ID: IC std4 2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

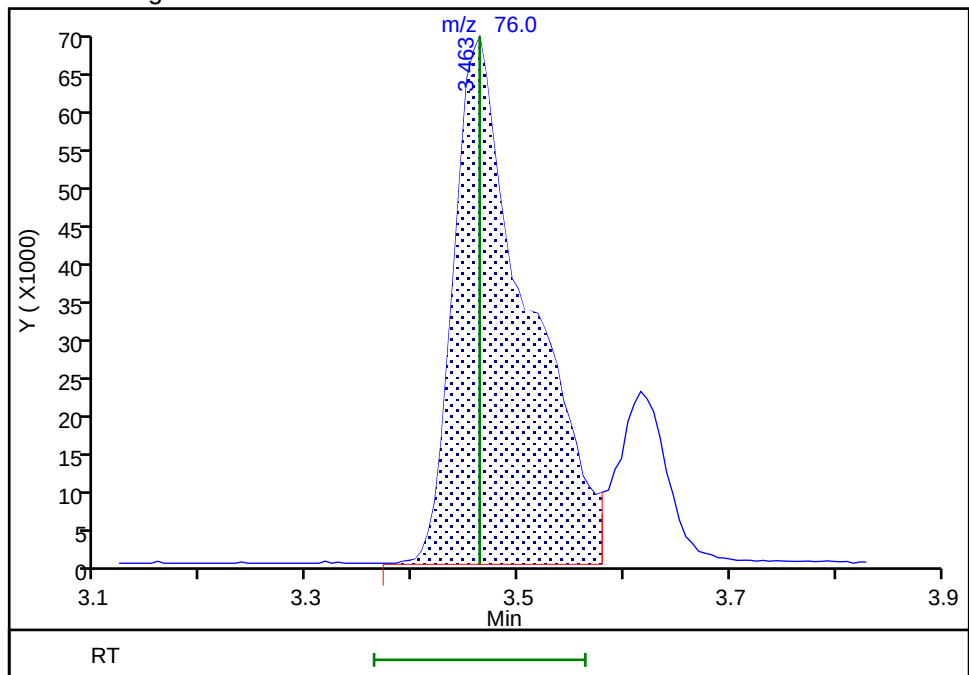
RT: 3.46
Area: 245260
Amount: 1.549973
Amount Units: ug/l

Processing Integration Results



RT: 3.46
Area: 335862
Amount: 2.039153
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:36:19 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

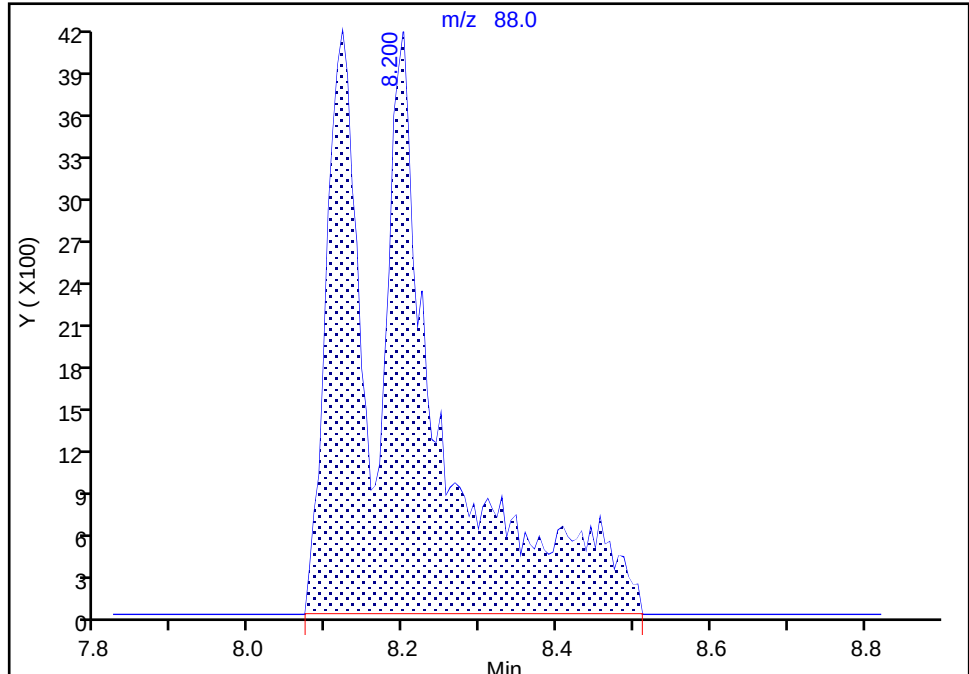
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X15.D
Injection Date: 14-Jun-2024 23:36:30 Instrument ID: 10193
Lims ID: IC std4 2
Client ID:
Operator ID: MEC29284 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

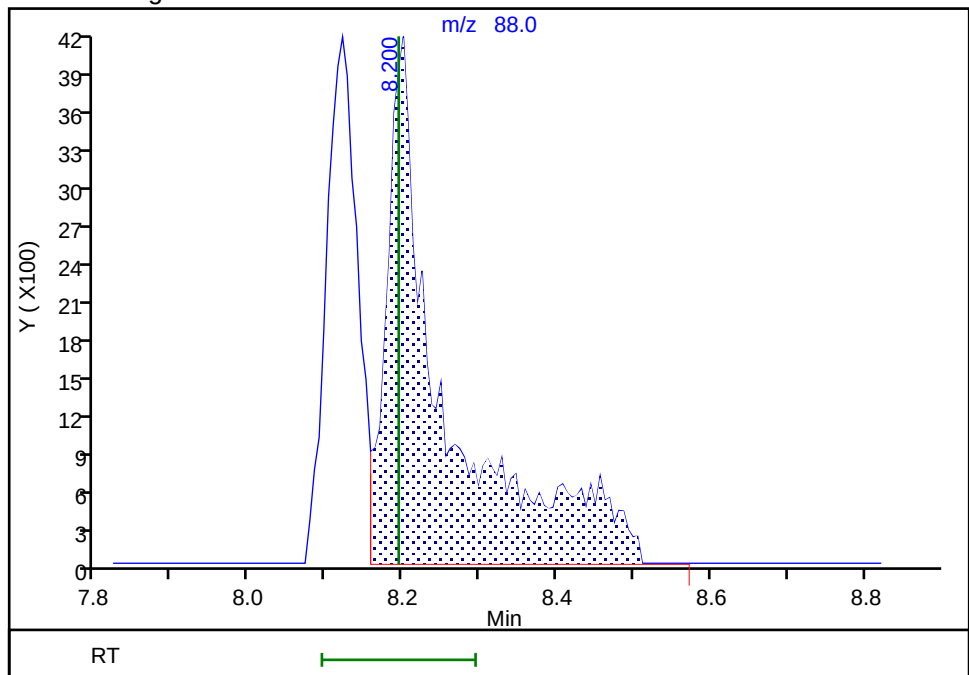
RT: 8.20
Area: 33069
Amount: 148.6420
Amount Units: ug/l

Processing Integration Results



RT: 8.20
Area: 21664
Amount: 105.3903
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:38:09 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X16.D
 Lims ID: IC std5 5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 14-Jun-2024 23:59:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0116724-017
 Misc. Info.: IC STD5 LG
 Operator ID: MEC29284 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 17-Jun-2024 19:28:53 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1606

First Level Reviewer: UCB5

Date: 16-Jun-2024 13:44:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.799	1.799	0.000	99	368681	5.00	4.93	
5 Chloromethane	50	1.988	1.982	0.006	99	407831	5.00	4.83	
6 Vinyl chloride	62	2.086	2.085	0.001	98	403385	5.00	4.86	
7 Butadiene	39	2.086	2.085	0.001	82	429588	5.00	4.84	
9 Bromomethane	94	2.403	2.396	0.007	90	276953	5.00	4.74	
10 Chloroethane	64	2.445	2.445	0.000	100	232235	5.00	4.88	
11 Dichlorofluoromethane	67	2.695	2.689	0.006	97	604485	5.00	4.90	
13 Pentane	43	2.738	2.738	0.000	97	398397	5.00	4.83	
12 Trichlorofluoromethane	101	2.750	2.744	0.006	98	470564	5.00	4.87	
14 Ethyl ether	59	2.921	2.921	0.000	91	214368	5.00	4.91	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.018	3.018	0.000	91	342676	5.00	4.82	
17 Acrolein	56	3.079	3.073	0.006	100	1691591	250.5	242.8	
18 1,1-Dichloroethene	96	3.201	3.195	0.006	97	243926	5.00	4.74	
20 Acetone	43	3.232	3.219	0.013	100	420322	50.0	46.9	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.244	3.244	0.000	90	266684	5.00	5.04	
24 Isopropyl alcohol	45	3.384	3.366	0.018	69	167857	100.0	91.1	
22 Iodomethane	142	3.378	3.372	0.006	97	527337	5.00	4.92	
23 Ethyl bromide	108	3.402	3.396	0.006	98	230787	5.01	4.92	
25 Carbon disulfide	76	3.463	3.463	0.000	99	824689	5.00	4.93	
26 Methyl acetate	43	3.597	3.585	0.012	96	124256	5.00	4.83	
29 3-Chloro-1-propene	41	3.622	3.616	0.006	93	420870	5.00	4.92	
30 Methylene Chloride	84	3.786	3.786	0.000	92	287772	5.00	4.69	
* 31 t-Butyl alcohol-d10 (IS)	65	3.793	3.792	0.001	96	180780	50.0	50.0	
32 2-Methyl-2-propanol	59	3.914	3.908	0.006	100	308310	100.0	88.2	
33 Acrylonitrile	53	4.091	4.091	0.000	98	142694	12.5	10.9	
35 trans-1,2-Dichloroethene	96	4.152	4.146	0.006	99	299762	5.00	4.88	
34 Methyl tert-butyl ether	73	4.152	4.146	0.006	95	761005	5.00	4.84	
36 Hexane	57	4.567	4.561	0.006	91	388303	5.00	4.87	
37 1,1-Dichloroethane	63	4.811	4.804	0.007	96	522243	5.00	4.95	
39 Isopropyl ether	45	4.872	4.871	0.001	94	923885	5.00	4.91	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.920	4.914	0.006	89	429652	5.00	4.91	
41 Tert-butyl ethyl ether	59	5.420	5.414	0.006	97	902126	5.00	4.89	
42 2-Butanone (MEK)	43	5.615	5.615	0.000	99	777874	50.0	47.3	
43 cis-1,2-Dichloroethene	96	5.658	5.652	0.006	80	336715	5.00	4.88	
44 2,2-Dichloropropane	77	5.670	5.670	0.000	87	417165	5.00	4.77	
45 Propionitrile	54	5.719	5.719	0.000	99	391243	100.0	88.1	
47 Methacrylonitrile	67	5.932	5.926	0.006	94	782044	50.0	48.1	
49 Tetrahydrofuran	71	5.987	5.981	0.006	87	117062	25.0	22.8	
48 Chlorobromomethane	128	5.987	5.987	0.000	87	157650	5.00	4.95	
50 Chloroform	83	6.152	6.146	0.006	93	526188	5.00	4.71	
S 52 1,2-Dichloroethene, Total	100				0			9.76	
\$ 54 Dibromofluoromethane (Surr)	113	6.371	6.365	0.006	94	546017	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.377	6.371	0.006	98	458013	5.00	4.90	
55 Cyclohexane	56	6.463	6.463	0.000	89	495847	5.00	4.98	
57 1,1-Dichloropropene	75	6.585	6.585	0.001	95	410648	5.00	4.92	
56 Carbon tetrachloride	117	6.585	6.585	0.001	96	419280	5.00	4.96	
58 Isobutyl alcohol	41	6.774	6.780	-0.006	95	303451	250.0	242.0	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.822	6.822	0.000	98	111464	10.0	10.0	
60 Benzene	78	6.853	6.853	0.000	97	1219179	5.00	4.86	
61 1,2-Dichloroethane	62	6.926	6.926	0.000	97	315060	5.00	4.92	
64 Tert-amyl methyl ether	73	7.060	7.060	0.000	99	844422	5.00	4.93	
* 65 Fluorobenzene (IS)	96	7.267	7.267	0.000	98	2250394	10.0	10.0	
66 n-Heptane	43	7.286	7.286	0.000	92	416498	5.00	5.03	
67 n-Butanol	56	7.682	7.682	0.000	87	443658	437.5	384.9	
68 Trichloroethene	95	7.755	7.755	0.000	96	336828	5.00	4.87	
69 Methylcyclohexane	83	8.066	8.066	0.000	89	556527	5.00	5.03	
70 1,2-Dichloropropane	63	8.097	8.096	0.001	97	315585	5.00	4.91	
71 2-ethoxy-2-methyl butane	87	8.121	8.127	-0.006	94	517863	5.00	4.96	
74 1,4-Dioxane	88	8.200	8.194	0.006	32	60707	250.0	268.4	M
73 Methyl methacrylate	69	8.200	8.200	0.000	92	159150	5.00	4.67	M
72 Dibromomethane	93	8.206	8.206	0.000	91	164594	5.00	5.03	
76 Dichlorobromomethane	83	8.456	8.456	0.000	100	383196	5.00	4.94	
77 2-Nitropropane	41	8.743	8.743	0.000	98	221451	25.0	24.1	
78 1-Bromo-2-chloroethane	63	8.846	8.846	0.000	98	308503	5.00	4.91	
80 cis-1,3-Dichloropropene	75	9.029	9.029	0.000	97	499072	5.00	4.97	
82 4-Methyl-2-pentanone (MIBK)	43	9.231	9.230	0.001	95	2102012	50.0	50.0	
\$ 83 Toluene-d8 (Surr)	98	9.359	9.358	0.001	93	2278729	10.0	10.0	
84 Toluene	92	9.444	9.444	0.000	98	823735	5.00	4.89	
85 trans-1,3-Dichloropropene	75	9.730	9.730	0.000	91	428359	5.00	4.99	
86 Ethyl methacrylate	69	9.804	9.803	0.001	89	366072	5.00	4.98	
87 1,1,2-Trichloroethane	97	9.944	9.944	0.000	89	238660	5.00	4.89	
88 Tetrachloroethene	166	10.023	10.023	0.000	97	412715	5.00	4.93	
S 107 1,3-Dichloropropene, Total	100				0			9.96	
89 1,3-Dichloropropane	76	10.115	10.114	0.000	89	404151	5.00	4.99	
106 2-Hexanone	43	10.182	10.181	0.001	96	1513323	50.0	49.5	
108 Chlorodibromomethane	129	10.334	10.334	0.000	90	312772	5.00	4.99	
110 Ethylene Dibromide	107	10.444	10.444	0.000	99	239760	5.00	4.96	
* 111 Chlorobenzene-d5 (IS)	117	10.901	10.901	0.000	83	1774642	10.0	10.0	
112 1-Chlorohexane	91	10.919	10.919	0.000	96	469345	5.00	4.75	
113 Chlorobenzene	112	10.925	10.925	0.000	97	995166	5.00	4.94	
114 1,1,1,2-Tetrachloroethane	131	11.017	11.017	0.000	96	352771	5.00	4.97	
115 Ethylbenzene	91	11.023	11.023	0.000	98	1622005	5.00	4.90	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.145	11.145	0.000	97	1328674	10.0	9.80	
S 117 Xylenes, Total	106				0			14.8	
118 o-Xylene	106	11.486	11.486	0.000	95	661618	5.00	4.95	
119 Styrene	104	11.498	11.498	0.000	95	1102472	5.00	4.98	
120 Bromoform	173	11.657	11.657	0.000	98	198454	5.00	4.91	
121 Isopropylbenzene	105	11.797	11.797	0.000	95	1578257	5.00	4.98	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.937	11.943	-0.006	94	863973	10.0	10.1	
126 1,1,2,2-Tetrachloroethane	83	12.053	12.053	0.000	75	303835	5.00	4.97	
125 Bromobenzene	156	12.059	12.059	0.000	88	447526	5.00	4.86	
127 trans-1,4-Dichloro-2-butene	53	12.084	12.083	0.001	90	719949	50.0	50.2	
128 1,2,3-Trichloropropane	110	12.096	12.096	0.000	79	83927	5.00	4.95	
129 N-Propylbenzene	91	12.132	12.138	-0.006	98	1936140	5.00	4.89	
130 2-Chlorotoluene	126	12.212	12.211	0.001	98	431939	5.00	4.87	
131 1,3,5-Trimethylbenzene	105	12.279	12.279	0.000	94	1455579	5.00	4.92	
132 4-Chlorotoluene	126	12.303	12.303	0.000	96	450927	5.00	4.87	
133 tert-Butylbenzene	134	12.523	12.522	0.001	92	344801	5.00	4.85	
134 Pentachloroethane	167	12.553	12.553	0.000	93	268601	5.00	5.04	
135 1,2,4-Trimethylbenzene	105	12.565	12.565	0.000	96	1503820	5.00	4.93	
136 sec-Butylbenzene	105	12.693	12.693	0.000	93	1872383	5.00	4.91	
137 1,3-Dichlorobenzene	146	12.785	12.785	0.000	98	888228	5.00	4.88	
138 4-Isopropyltoluene	119	12.803	12.803	0.000	97	1701451	5.00	4.96	
* 139 1,4-Dichlorobenzene-d4	152	12.846	12.846	0.000	92	1046571	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.864	12.864	0.000	96	905642	5.00	4.87	
141 1,2,3-Trimethylbenzene	120	12.876	12.876	0.000	98	688298	5.00	4.89	
142 Benzyl chloride	126	12.943	12.943	0.000	98	138873	5.00	4.96	
145 p-Diethylbenzene	119	13.083	13.083	0.000	94	1046874	5.00	4.90	
143 n-Butylbenzene	92	13.102	13.102	0.000	97	805142	5.00	4.89	
144 1,2-Dichlorobenzene	146	13.126	13.126	0.000	99	815649	5.00	4.91	
148 1,2-Dibromo-3-Chloropropane	155	13.681	13.681	0.000	91	52067	5.00	5.15	
149 1,3,5-Trichlorobenzene	180	13.809	13.803	0.006	98	695408	5.00	4.93	
150 1,2,4-Trichlorobenzene	180	14.236	14.235	0.001	94	568421	5.00	4.97	
151 Hexachlorobutadiene	225	14.321	14.321	0.000	97	280192	5.00	4.74	
152 Naphthalene	128	14.419	14.418	0.001	96	927395	5.00	5.12	
153 1,2,3-Trichlorobenzene	180	14.565	14.565	0.000	96	446800	5.00	5.01	
154 2-Methylnaphthalene	142	15.174	15.174	0.000	92	405820	5.00	5.06	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00133

Amount Added: 5.00

Units: uL

MSV_LL_#2_826_00140

Amount Added: 5.00

Units: uL

MSV_LL_GAS826_00214

Amount Added: 5.00

Units: uL

MSV_HP25_ISSS_00090

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 17-Jun-2024 19:28:54

Chrom Revision: 2.3 03-Jun-2024 20:58:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X16.D

Injection Date: 14-Jun-2024 23:59:30

Instrument ID: 10193

Operator ID: MEC29284

Lims ID: IC std5 5

Worklist Smp#: 17

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

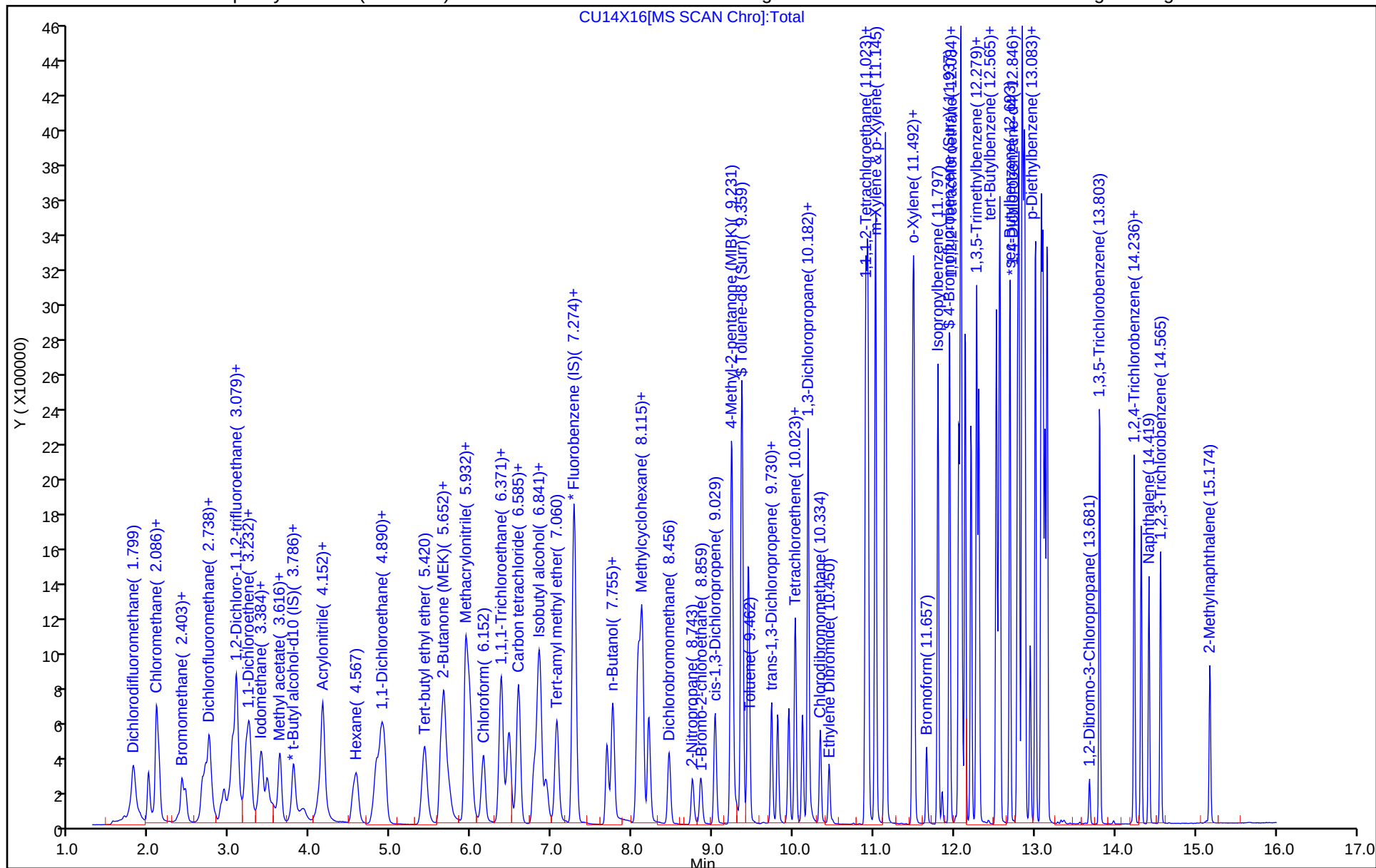
ALS Bottle#: 16

Method: MSV_10193_25mL

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

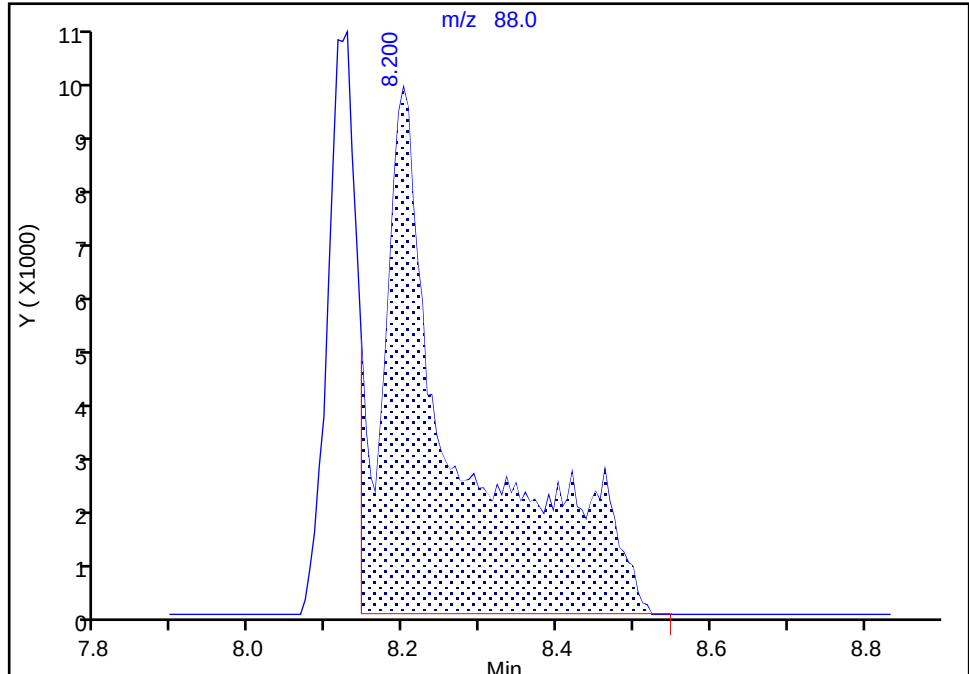
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X16.D
Injection Date: 14-Jun-2024 23:59:30 Instrument ID: 10193
Lims ID: IC std5 5
Client ID:
Operator ID: MEC29284 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

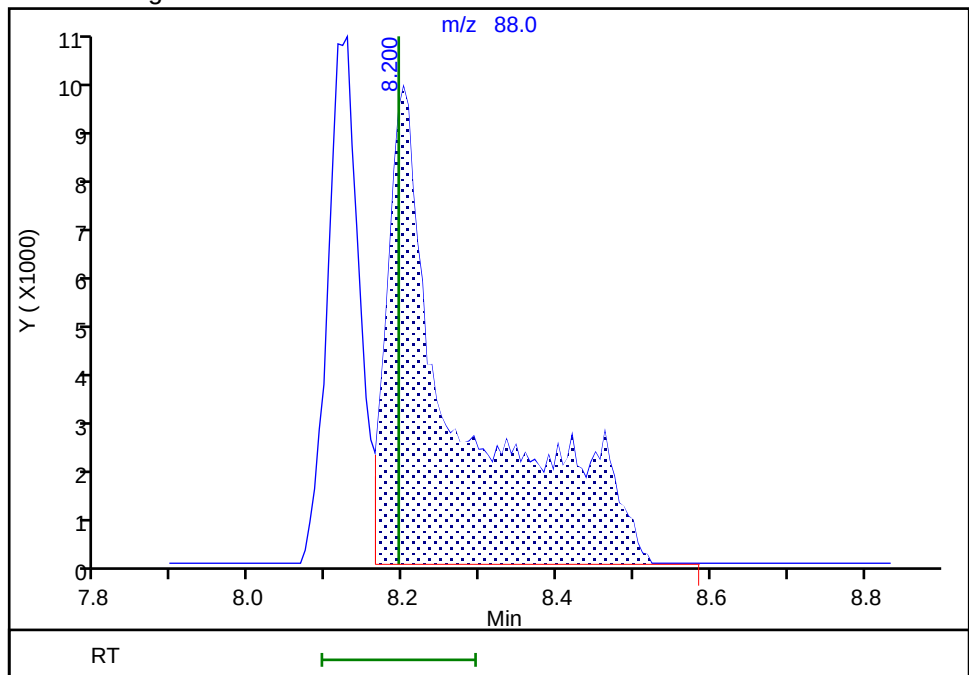
RT: 8.20
Area: 64507
Amount: 284.3636
Amount Units: ug/l

Processing Integration Results



RT: 8.20
Area: 60707
Amount: 268.4214
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 17-Jun-2024 19:19:41 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

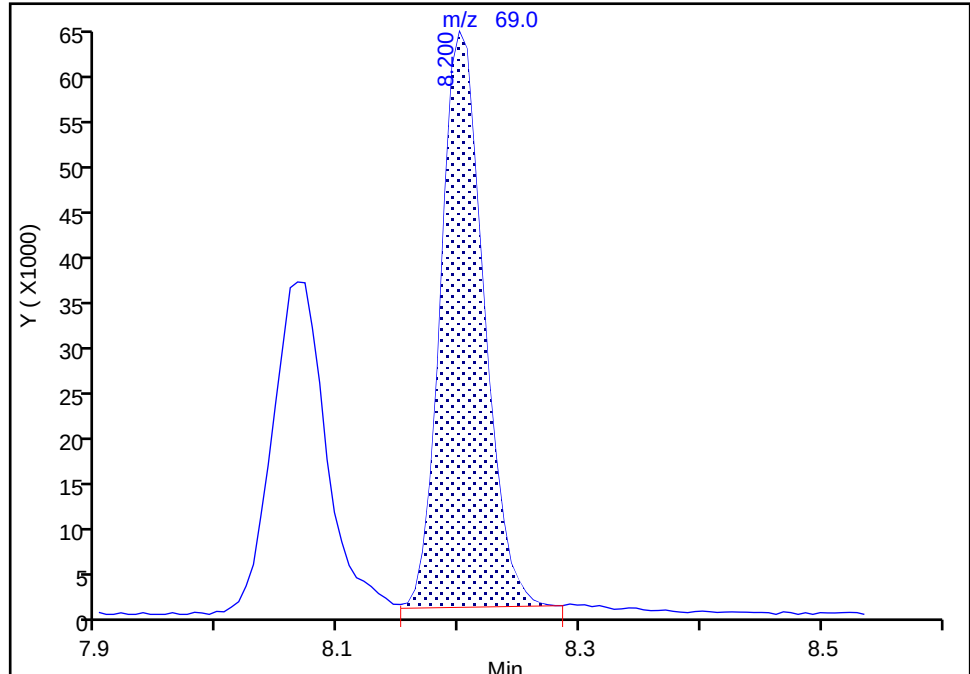
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X16.D
Injection Date: 14-Jun-2024 23:59:30 Instrument ID: 10193
Lims ID: IC std5 5
Client ID:
Operator ID: MEC29284 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 Methyl methacrylate, CAS: 80-62-6

Signal: 1

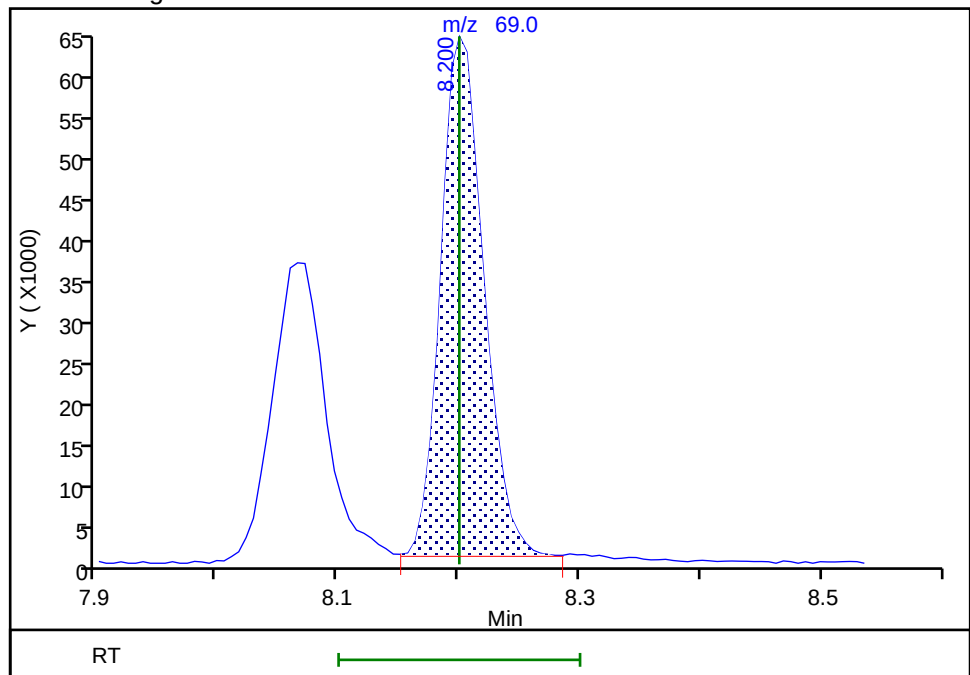
RT: 8.20
Area: 159049
Amount: 4.576438
Amount Units: ug/l

Processing Integration Results



RT: 8.20
Area: 159150
Amount: 4.665995
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:43:04 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X17.D
 Lims ID: ICIS 10
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 15-Jun-2024 00:22:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0116724-018
 Misc. Info.: IC STD10 LG
 Operator ID: MEC29284 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 17-Jun-2024 19:28:58 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1606

First Level Reviewer: DVW2

Date: 16-Jun-2024 08:15:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.799	1.799	0.000	99	734237	10.0	9.69	
5 Chloromethane	50	1.982	1.982	0.000	99	809771	10.0	9.46	
6 Vinyl chloride	62	2.085	2.085	0.000	98	808044	10.0	9.59	
7 Butadiene	39	2.085	2.085	0.000	90	862743	10.0	9.58	
9 Bromomethane	94	2.396	2.396	0.000	90	563388	10.0	9.50	
10 Chloroethane	64	2.445	2.445	0.000	100	462351	10.0	9.58	
11 Dichlorofluoromethane	67	2.689	2.689	0.000	97	1222831	10.0	9.78	
13 Pentane	43	2.738	2.738	0.000	97	807696	10.0	9.65	
12 Trichlorofluoromethane	101	2.744	2.744	0.000	99	948084	10.0	9.67	
14 Ethyl ether	59	2.921	2.921	0.000	91	433149	10.0	9.78	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.018	3.018	0.000	91	693949	10.0	9.62	
17 Acrolein	56	3.073	3.073	0.000	100	3768167	501.1	518.2	
18 1,1-Dichloroethene	96	3.195	3.195	0.000	97	491747	10.0	9.42	
20 Acetone	43	3.219	3.219	0.000	100	891438	100.0	95.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.244	3.244	0.000	90	532721	10.0	9.92	
24 Isopropyl alcohol	45	3.366	3.366	0.000	43	411663	200.0	213.9	
22 Iodomethane	142	3.372	3.372	0.000	97	1063632	10.0	9.78	
23 Ethyl bromide	108	3.396	3.396	0.000	97	466648	10.0	9.82	
25 Carbon disulfide	76	3.463	3.463	0.000	99	1662162	10.0	9.81	
26 Methyl acetate	43	3.585	3.585	0.000	96	259596	10.0	9.66	
29 3-Chloro-1-propene	41	3.616	3.616	0.000	93	852542	10.0	9.83	
30 Methylene Chloride	84	3.786	3.786	0.000	90	581565	10.0	9.35	
* 31 t-Butyl alcohol-d10 (IS)	65	3.798	3.798	0.000	49	188699	50.0	50.0	
32 2-Methyl-2-propanol	59	3.908	3.908	0.000	100	651277	200.0	178.5	
33 Acrylonitrile	53	4.091	4.091	0.000	99	316143	25.0	23.1	
35 trans-1,2-Dichloroethene	96	4.146	4.146	0.000	99	602335	10.0	9.67	
34 Methyl tert-butyl ether	73	4.146	4.146	0.000	94	1590845	10.0	9.98	
36 Hexane	57	4.561	4.561	0.000	92	784492	10.0	9.69	
37 1,1-Dichloroethane	63	4.804	4.804	0.000	96	1050430	10.0	9.81	
39 Isopropyl ether	45	4.871	4.871	0.000	94	1876667	10.0	9.84	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.914	4.914	0.000	89	860537	10.0	9.69	
41 Tert-butyl ethyl ether	59	5.414	5.414	0.000	97	1842578	10.0	9.86	
42 2-Butanone (MEK)	43	5.615	5.615	0.000	99	1720851	100.0	100.2	
43 cis-1,2-Dichloroethene	96	5.652	5.652	0.000	80	680417	10.0	9.72	
44 2,2-Dichloropropane	77	5.670	5.670	0.000	85	833572	10.0	9.39	
45 Propionitrile	54	5.719	5.719	0.000	99	976438	200.0	210.7	
47 Methacrylonitrile	67	5.926	5.926	0.000	91	1649667	100.0	97.2	
49 Tetrahydrofuran	71	5.981	5.981	0.000	78	250650	50.0	46.7	
48 Chlorobromomethane	128	5.987	5.987	0.000	87	319608	10.0	9.89	
50 Chloroform	83	6.146	6.146	0.000	93	1052795	10.0	9.28	
\$ 54 Dibromofluoromethane (Surr)	113	6.365	6.365	0.000	94	554691	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.371	6.371	0.000	98	915814	10.0	9.67	
55 Cyclohexane	56	6.463	6.463	0.000	89	1005521	10.0	9.97	
57 1,1-Dichloropropene	75	6.585	6.585	0.000	97	822182	10.0	9.71	
56 Carbon tetrachloride	117	6.585	6.585	0.000	96	845695	10.0	9.86	
58 Isobutyl alcohol	41	6.780	6.780	0.000	95	647610	500.0	494.8	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.822	6.822	0.000	99	111406	10.0	9.85	
60 Benzene	78	6.853	6.853	0.000	96	2475580	10.0	9.73	
61 1,2-Dichloroethane	62	6.926	6.926	0.000	97	633799	10.0	9.76	
64 Tert-amyl methyl ether	73	7.060	7.060	0.000	98	1748941	10.0	10.1	
* 65 Fluorobenzene (IS)	96	7.267	7.267	0.000	99	2282400	10.0	10.0	
66 n-Heptane	43	7.286	7.286	0.000	91	837504	10.0	9.98	
67 n-Butanol	56	7.682	7.682	0.000	87	1097174	875.0	912.0	
68 Trichloroethene	95	7.755	7.755	0.000	96	673226	10.0	9.61	
69 Methylcyclohexane	83	8.066	8.066	0.000	89	1129952	10.0	10.1	
70 1,2-Dichloropropane	63	8.096	8.096	0.000	97	643632	10.0	9.88	
71 2-ethoxy-2-methyl butane	87	8.127	8.127	0.000	95	1069075	10.0	10.1	
74 1,4-Dioxane	88	8.194	8.194	0.000	33	116675	500.0	494.2	Ma
73 Methyl methacrylate	69	8.200	8.200	0.000	90	345830	10.0	9.71	
72 Dibromomethane	93	8.206	8.206	0.000	92	325035	10.0	9.79	
76 Dichlorobromomethane	83	8.456	8.456	0.000	100	780772	10.0	9.93	
77 2-Nitropropane	41	8.743	8.743	0.000	97	486658	50.0	50.7	
78 1-Bromo-2-chloroethane	63	8.846	8.846	0.000	98	642953	10.0	10.1	
80 cis-1,3-Dichloropropene	75	9.029	9.029	0.000	97	1014736	10.0	9.97	
82 4-Methyl-2-pentanone (MIBK)	43	9.230	9.230	0.000	96	4387352	100.0	99.9	
\$ 83 Toluene-d8 (Surr)	98	9.358	9.358	0.000	93	2309511	10.0	10.1	
84 Toluene	92	9.444	9.444	0.000	98	1671454	10.0	9.82	
85 trans-1,3-Dichloropropene	75	9.730	9.730	0.000	91	866626	10.0	10.0	
86 Ethyl methacrylate	69	9.803	9.803	0.000	89	747761	10.0	10.1	
87 1,1,2-Trichloroethane	97	9.944	9.944	0.000	90	477370	10.0	9.70	
88 Tetrachloroethene	166	10.023	10.023	0.000	97	827702	10.0	9.80	
89 1,3-Dichloropropane	76	10.114	10.114	0.000	89	810192	10.0	9.90	
106 2-Hexanone	43	10.181	10.181	0.000	96	3122469	100.0	97.8	
108 Chlorodibromomethane	129	10.334	10.334	0.000	89	643090	10.0	10.2	
110 Ethylene Dibromide	107	10.444	10.444	0.000	99	489120	10.0	10.0	
* 111 Chlorobenzene-d5 (IS)	117	10.901	10.901	0.000	84	1791303	10.0	10.0	
112 1-Chlorohexane	91	10.919	10.919	0.000	96	944447	10.0	9.47	
113 Chlorobenzene	112	10.925	10.925	0.000	97	1999402	10.0	9.83	
114 1,1,1,2-Tetrachloroethane	131	11.017	11.017	0.000	97	720956	10.0	10.1	
115 Ethylbenzene	91	11.023	11.023	0.000	98	3278886	10.0	9.81	
116 m-Xylene & p-Xylene	106	11.145	11.145	0.000	97	2686365	20.0	19.6	
118 o-Xylene	106	11.486	11.486	0.000	96	1334091	10.0	9.89	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 Styrene	104	11.498	11.498	0.000	95	2233184	10.0	10.0	
120 Bromoform	173	11.657	11.657	0.000	98	409184	10.0	10.0	
121 Isopropylbenzene	105	11.797	11.797	0.000	95	3196885	10.0	9.99	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.943	11.943	0.000	96	867691	10.0	10.1	
126 1,1,2,2-Tetrachloroethane	83	12.053	12.053	0.000	76	622324	10.0	10.1	
125 Bromobenzene	156	12.059	12.059	0.000	88	908749	10.0	9.75	
127 trans-1,4-Dichloro-2-butene	53	12.083	12.083	0.000	90	1474792	100.0	101.5	
128 1,2,3-Trichloropropane	110	12.096	12.096	0.000	78	170673	10.0	9.93	
129 N-Propylbenzene	91	12.138	12.138	0.000	98	3940061	10.0	9.83	
130 2-Chlorotoluene	126	12.211	12.211	0.000	98	878431	10.0	9.77	
131 1,3,5-Trimethylbenzene	105	12.279	12.279	0.000	94	2953220	10.0	9.86	
132 4-Chlorotoluene	126	12.303	12.303	0.000	96	911272	10.0	9.73	
133 tert-Butylbenzene	134	12.522	12.522	0.000	92	705095	10.0	9.79	
134 Pentachloroethane	167	12.553	12.553	0.000	95	557070	10.0	10.3	
135 1,2,4-Trimethylbenzene	105	12.565	12.565	0.000	97	3065316	10.0	9.92	
136 sec-Butylbenzene	105	12.693	12.693	0.000	93	3842980	10.0	9.95	
137 1,3-Dichlorobenzene	146	12.785	12.785	0.000	98	1814020	10.0	9.85	
138 4-Isopropyltoluene	119	12.803	12.803	0.000	97	3462326	10.0	9.97	
* 139 1,4-Dichlorobenzene-d4	152	12.845	12.845	0.000	92	1059823	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.864	12.864	0.000	96	1844120	10.0	9.79	
141 1,2,3-Trimethylbenzene	120	12.876	12.876	0.000	98	1427855	10.0	10.0	
142 Benzyl chloride	126	12.943	12.943	0.000	98	290573	10.0	10.2	
145 p-Diethylbenzene	119	13.083	13.083	0.000	94	2146118	10.0	9.92	
143 n-Butylbenzene	92	13.102	13.102	0.000	96	1641310	10.0	9.85	
144 1,2-Dichlorobenzene	146	13.126	13.126	0.000	99	1685786	10.0	10.0	
148 1,2-Dibromo-3-Chloropropane	155	13.681	13.681	0.000	92	112816	10.0	11.0	
149 1,3,5-Trichlorobenzene	180	13.803	13.803	0.000	98	1437909	10.0	10.1	
150 1,2,4-Trichlorobenzene	180	14.235	14.235	0.000	94	1215124	10.0	10.5	
151 Hexachlorobutadiene	225	14.321	14.321	0.000	96	597322	10.0	9.99	
152 Naphthalene	128	14.418	14.418	0.000	96	2042535	10.0	11.1	
153 1,2,3-Trichlorobenzene	180	14.565	14.565	0.000	96	970054	10.0	10.7	
154 2-Methylnaphthalene	142	15.174	15.174	0.000	92	933449	10.0	11.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00133

Amount Added: 10.00

Units: uL

MSV_LL_#2_826_00140

Amount Added: 10.00

Units: uL

MSV_LL_GAS826_00214

Amount Added: 10.00

Units: uL

MSV_HP25_ISSS_00090

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 17-Jun-2024 19:28:59

Chrom Revision: 2.3 03-Jun-2024 20:58:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X17.D

Injection Date: 15-Jun-2024 00:22:30

Instrument ID: 10193

Operator ID: MEC29284

Lims ID: ICIS 10

Worklist Smp#: 18

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

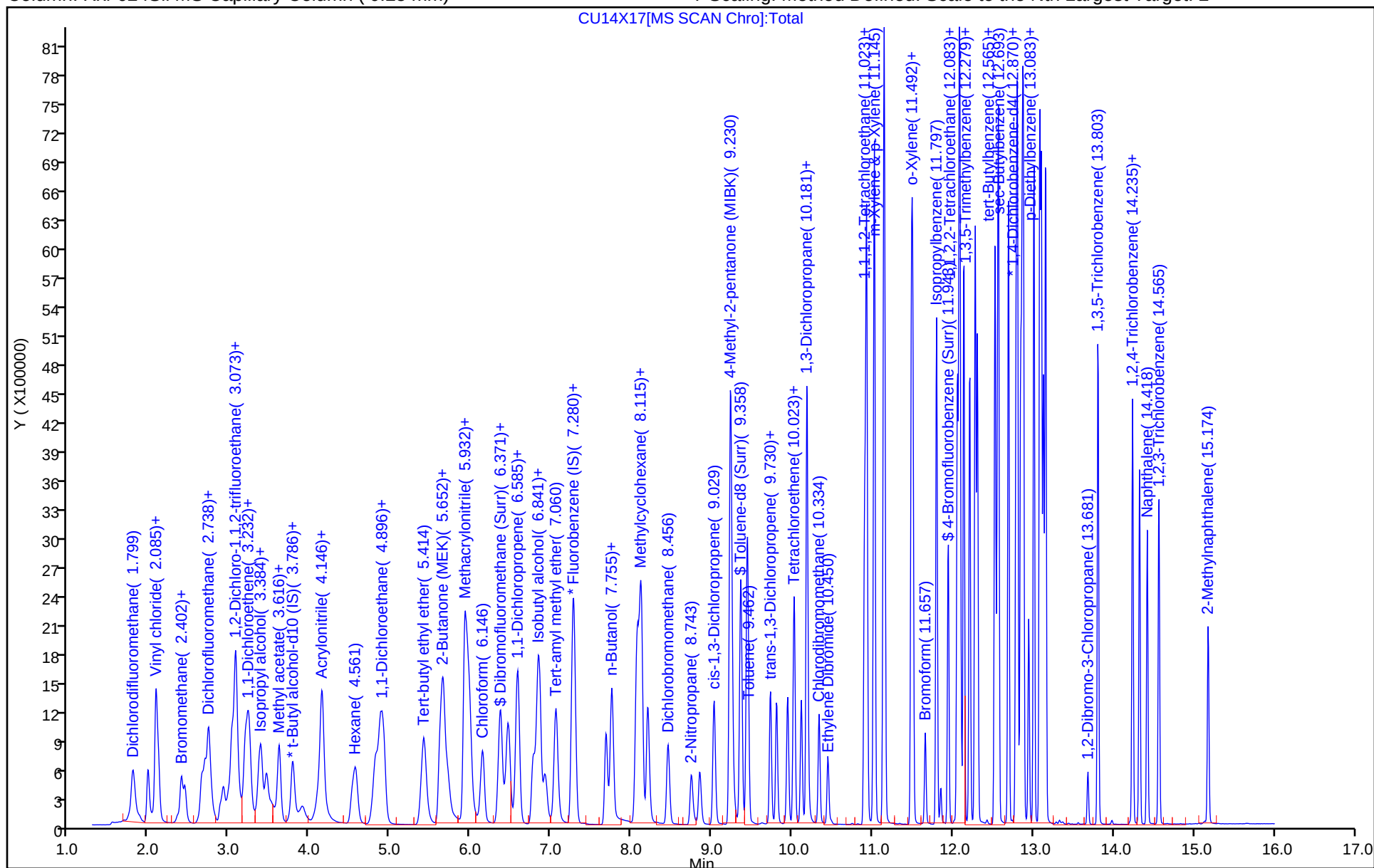
ALS Bottle#: 17

Method: MSV_10193_25mL

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

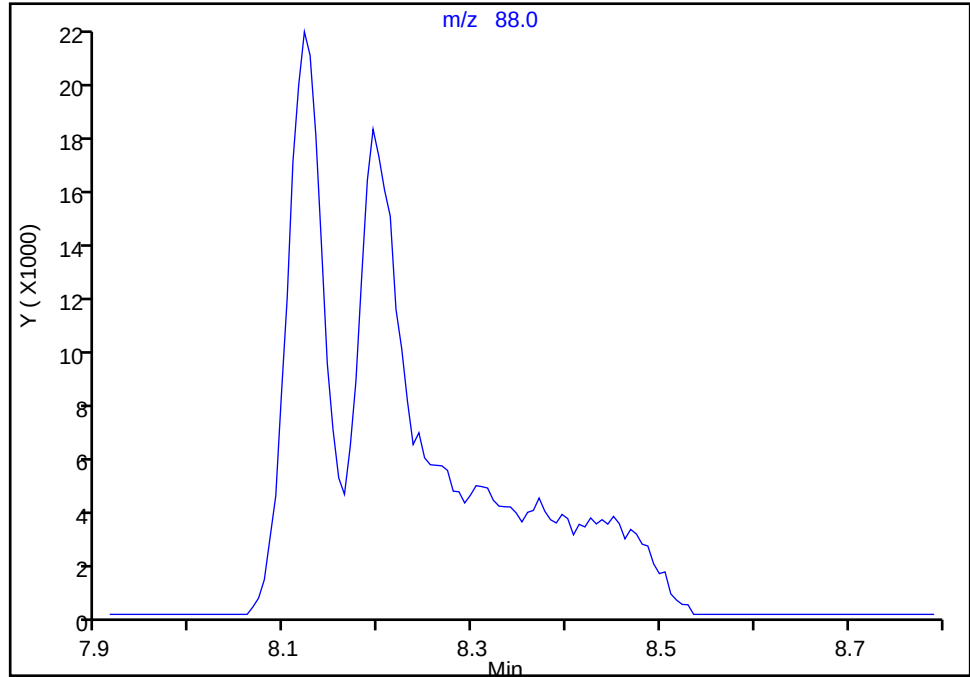
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X17.D
Injection Date: 15-Jun-2024 00:22:30 Instrument ID: 10193
Lims ID: ICIS 10
Client ID:
Operator ID: MEC29284 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

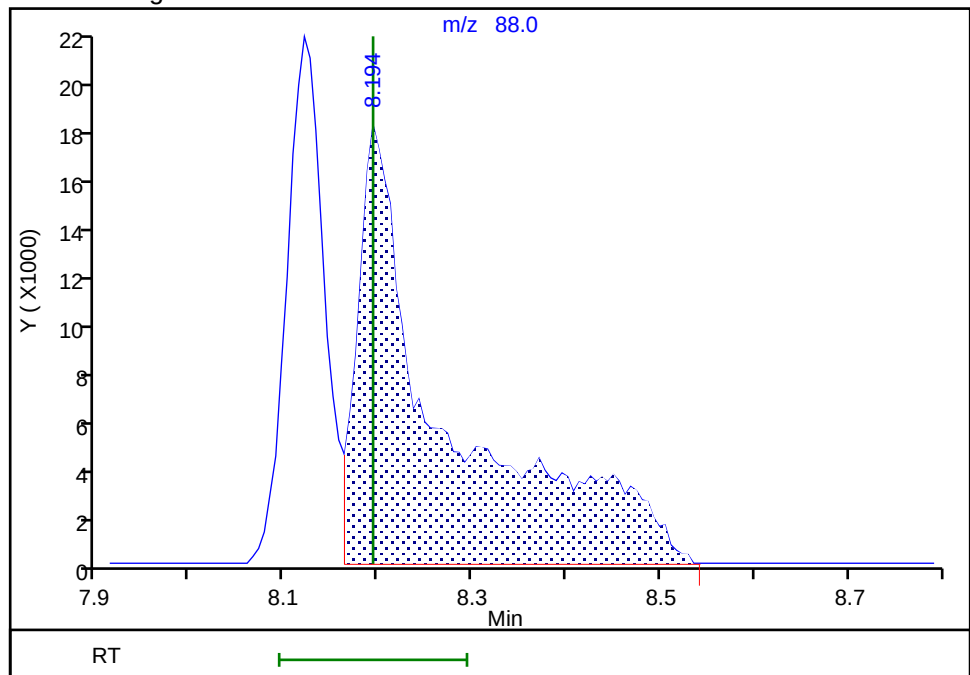
Signal: 1

Not Detected
Expected RT: 8.19

Processing Integration Results



Manual Integration Results



Reviewer: DVW2, 16-Jun-2024 08:15:01 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Lims ID: IC std7 25
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 15-Jun-2024 00:45:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0116724-019
 Misc. Info.: IC STD25 LG
 Operator ID: MEC29284 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 17-Jun-2024 19:29:21 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1606

First Level Reviewer: UCB5

Date: 16-Jun-2024 13:53:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.799	1.799	0.000	99	1905383	25.0	25.7	
5 Chloromethane	50	1.982	1.982	0.000	99	2083250	25.0	24.9	
6 Vinyl chloride	62	2.085	2.085	0.000	98	2101955	25.0	25.5	
7 Butadiene	39	2.085	2.085	0.000	92	2161710	25.0	24.5	M
9 Bromomethane	94	2.396	2.396	0.000	89	1445096	25.0	24.9	
10 Chloroethane	64	2.445	2.445	0.000	100	1191486	25.0	25.2	
11 Dichlorofluoromethane	67	2.689	2.689	0.000	97	3154184	25.0	25.8	
13 Pentane	43	2.732	2.738	-0.006	97	2064115	25.0	25.2	
12 Trichlorofluoromethane	101	2.738	2.744	-0.006	98	2424884	25.0	25.3	
14 Ethyl ether	59	2.914	2.921	-0.007	90	1138331	25.0	26.3	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.018	3.018	0.000	91	1803949	25.0	25.6	
17 Acrolein	56	3.073	3.073	0.000	100	9594947	1252.7	1323.4	
18 1,1-Dichloroethene	96	3.201	3.195	0.006	97	1279237	25.0	25.0	
20 Acetone	43	3.225	3.219	0.006	100	2194483	250.0	235.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.244	3.244	0.000	90	1349071	25.0	25.7	
24 Isopropyl alcohol	45	3.378	3.366	0.012	40	1037305	500.0	540.7	
22 Iodomethane	142	3.372	3.372	0.000	97	2768721	25.0	26.0	
23 Ethyl bromide	108	3.396	3.396	0.000	98	1232176	25.0	26.5	
25 Carbon disulfide	76	3.463	3.463	0.000	99	4401815	25.0	26.5	
26 Methyl acetate	43	3.591	3.585	0.006	96	648417	25.0	24.2	M
29 3-Chloro-1-propene	41	3.615	3.616	-0.001	93	2239904	25.0	26.4	
30 Methylene Chloride	84	3.786	3.786	0.000	91	1501358	25.0	24.7	
* 31 t-Butyl alcohol-d10 (IS)	65	3.804	3.798	0.006	94	188137	50.0	50.0	M
32 2-Methyl-2-propanol	59	3.908	3.908	0.000	100	1671928	500.0	459.6	
33 Acrylonitrile	53	4.091	4.091	0.000	99	789839	62.5	58.0	
35 trans-1,2-Dichloroethene	96	4.146	4.146	0.000	99	1561141	25.0	25.6	
34 Methyl tert-butyl ether	73	4.140	4.146	-0.006	97	4071785	25.0	26.1	
36 Hexane	57	4.560	4.561	-0.001	91	2006405	25.0	25.3	
37 1,1-Dichloroethane	63	4.804	4.804	0.000	96	2726420	25.0	26.0	
39 Isopropyl ether	45	4.871	4.871	0.000	94	4877622	25.0	26.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.914	4.914	0.000	89	2242733	25.0	25.8	
41 Tert-butyl ethyl ether	59	5.414	5.414	0.000	97	4765931	25.0	26.1	
42 2-Butanone (MEK)	43	5.615	5.615	0.000	99	4268978	250.0	249.3	
43 cis-1,2-Dichloroethene	96	5.652	5.652	0.000	80	1771577	25.0	25.9	
44 2,2-Dichloropropane	77	5.670	5.670	0.000	89	2151525	25.0	24.8	
45 Propionitrile	54	5.719	5.719	0.000	99	2529029	500.0	547.5	
47 Methacrylonitrile	67	5.932	5.926	0.006	93	4229919	250.0	249.8	
49 Tetrahydrofuran	71	5.987	5.981	0.006	85	637151	125.0	119.1	
48 Chlorobromomethane	128	5.987	5.987	0.000	91	818941	25.0	25.9	
50 Chloroform	83	6.145	6.146	-0.001	93	2719432	25.0	24.5	
S 52 1,2-Dichloroethene, Total	100				0			51.5	
\$ 54 Dibromofluoromethane (Surr)	113	6.371	6.365	0.006	94	541031	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.371	6.371	0.000	98	2378894	25.0	25.7	
55 Cyclohexane	56	6.469	6.463	0.006	89	2567920	25.0	26.0	
57 1,1-Dichloropropene	75	6.584	6.585	0.000	98	2166141	25.0	26.1	
56 Carbon tetrachloride	117	6.578	6.585	-0.006	96	2220074	25.0	26.4	
58 Isobutyl alcohol	41	6.773	6.780	-0.007	95	1575075	1250.0	1207.1	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.828	6.822	0.006	98	109807	10.0	9.92	
60 Benzene	78	6.853	6.853	0.000	95	6440925	25.0	25.9	
61 1,2-Dichloroethane	62	6.926	6.926	0.000	97	1614182	25.0	25.4	
64 Tert-amyl methyl ether	73	7.060	7.060	0.000	98	4483418	25.0	26.4	
* 65 Fluorobenzene (IS)	96	7.273	7.267	0.006	95	2233108	10.0	10.0	
66 n-Heptane	43	7.286	7.286	0.000	92	2110634	25.0	25.7	
67 n-Butanol	56	7.682	7.682	0.000	86	2771268	2187.5	2310.5	M
68 Trichloroethene	95	7.755	7.755	0.000	96	1756419	25.0	25.6	
69 Methylcyclohexane	83	8.066	8.066	0.000	90	2892643	25.0	26.3	
70 1,2-Dichloropropane	63	8.096	8.096	0.000	97	1682549	25.0	26.4	
71 2-ethoxy-2-methyl butane	87	8.127	8.127	0.000	95	2801387	25.0	27.0	
74 1,4-Dioxane	88	8.200	8.194	0.006	66	320840	1250.0	1363.1	M
73 Methyl methacrylate	69	8.200	8.200	0.000	92	870579	25.0	24.5	
72 Dibromomethane	93	8.206	8.206	0.000	92	858709	25.0	26.4	
76 Dichlorobromomethane	83	8.456	8.456	0.000	99	2031557	25.0	26.4	
77 2-Nitropropane	41	8.749	8.743	0.006	97	1213307	125.0	126.9	
78 1-Bromo-2-chloroethane	63	8.852	8.846	0.006	98	1649892	25.0	26.5	
80 cis-1,3-Dichloropropene	75	9.029	9.029	0.000	97	2647910	25.0	26.6	
82 4-Methyl-2-pentanone (MIBK)	43	9.236	9.230	0.006	95	11258197	250.0	257.1	
\$ 83 Toluene-d8 (Surr)	98	9.364	9.358	0.006	93	2253682	10.0	10.1	
84 Toluene	92	9.444	9.444	0.000	98	4354894	25.0	26.4	
85 trans-1,3-Dichloropropene	75	9.730	9.730	0.000	91	2265180	25.0	26.9	
86 Ethyl methacrylate	69	9.803	9.803	0.000	89	1936916	25.0	26.9	
87 1,1,2-Trichloroethane	97	9.944	9.944	0.000	90	1228042	25.0	25.7	
88 Tetrachloroethene	166	10.023	10.023	0.000	97	2161277	25.0	26.3	
S 107 1,3-Dichloropropene, Total	100				0			53.5	
89 1,3-Dichloropropane	76	10.114	10.114	0.000	89	2110086	25.0	26.6	
106 2-Hexanone	43	10.181	10.181	0.000	95	7969148	250.0	250.4	
108 Chlorodibromomethane	129	10.334	10.334	0.000	90	1678834	25.0	27.3	
110 Ethylene Dibromide	107	10.443	10.444	-0.001	99	1266157	25.0	26.7	
* 111 Chlorobenzene-d5 (IS)	117	10.901	10.901	0.000	84	1739935	10.0	10.0	
112 1-Chlorohexane	91	10.925	10.919	0.006	97	2446377	25.0	25.3	
113 Chlorobenzene	112	10.931	10.925	0.006	97	5192630	25.0	26.3	
114 1,1,1,2-Tetrachloroethane	131	11.016	11.017	-0.001	97	1890919	25.0	27.2	
115 Ethylbenzene	91	11.023	11.023	0.000	98	8572940	25.0	26.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.145	11.145	-0.001	97	7050481	50.0	53.1	
S 117 Xylenes, Total	106				0			79.6	
118 o-Xylene	106	11.486	11.486	0.000	95	3481281	25.0	26.6	
119 Styrene	104	11.504	11.498	0.006	95	5794215	25.0	26.7	
120 Bromoform	173	11.657	11.657	0.000	98	1075393	25.0	27.2	
121 Isopropylbenzene	105	11.797	11.797	0.000	95	8237293	25.0	26.5	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.943	11.943	0.000	96	847227	10.0	10.1	
126 1,1,2,2-Tetrachloroethane	83	12.059	12.053	0.006	76	1618375	25.0	26.5	
125 Bromobenzene	156	12.059	12.059	0.000	88	2351082	25.0	25.6	
127 trans-1,4-Dichloro-2-butene	53	12.083	12.083	0.000	90	3923681	250.0	274.0	
128 1,2,3-Trichloropropane	110	12.096	12.096	0.000	77	445742	25.0	26.3	
129 N-Propylbenzene	91	12.138	12.138	0.000	98	10077512	25.0	25.5	
130 2-Chlorotoluene	126	12.211	12.211	0.000	98	2281014	25.0	25.8	
131 1,3,5-Trimethylbenzene	105	12.278	12.279	-0.001	94	7768355	25.0	26.3	
132 4-Chlorotoluene	126	12.309	12.303	0.006	96	2393840	25.0	25.9	
133 tert-Butylbenzene	134	12.522	12.522	0.000	93	1837768	25.0	25.9	
134 Pentachloroethane	167	12.553	12.553	0.000	95	1477179	25.0	27.8	
135 1,2,4-Trimethylbenzene	105	12.565	12.565	0.000	96	8059731	25.0	26.5	
136 sec-Butylbenzene	105	12.693	12.693	0.000	93	9766106	25.0	25.7	
137 1,3-Dichlorobenzene	146	12.784	12.785	-0.001	98	4702331	25.0	25.9	
138 4-Isopropyltoluene	119	12.803	12.803	0.000	97	8936074	25.0	26.1	
* 139 1,4-Dichlorobenzene-d4	152	12.845	12.845	0.000	92	1044446	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.864	12.864	0.000	96	4822201	25.0	26.0	
141 1,2,3-Trimethylbenzene	120	12.876	12.876	0.000	98	3744402	25.0	26.6	
142 Benzyl chloride	126	12.943	12.943	0.000	98	751893	25.0	26.9	
145 p-Diethylbenzene	119	13.083	13.083	0.000	94	5565330	25.0	26.1	
143 n-Butylbenzene	92	13.101	13.102	-0.001	98	4294531	25.0	26.1	
144 1,2-Dichlorobenzene	146	13.126	13.126	0.000	99	4384615	25.0	26.5	
148 1,2-Dibromo-3-Chloropropane	155	13.681	13.681	0.000	92	293449	25.0	29.1	
149 1,3,5-Trichlorobenzene	180	13.809	13.803	0.006	98	3642801	25.0	25.9	
150 1,2,4-Trichlorobenzene	180	14.235	14.235	0.000	94	3097155	25.0	27.1	
151 Hexachlorobutadiene	225	14.321	14.321	0.000	96	1482860	25.0	25.2	
152 Naphthalene	128	14.418	14.418	0.000	96	5180801	25.0	28.7	
153 1,2,3-Trichlorobenzene	180	14.565	14.565	0.000	96	2474425	25.0	27.8	
154 2-Methylnaphthalene	142	15.174	15.174	0.000	92	2496002	25.0	31.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00133

Amount Added: 25.00

Units: uL

MSV_LL_#2_826_00140

Amount Added: 25.00

Units: uL

MSV_LL_GAS826_00214

Amount Added: 25.00

Units: uL

MSV_HP25_ISSS_00090

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 17-Jun-2024 19:29:22

Chrom Revision: 2.3 03-Jun-2024 20:58:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D

Injection Date: 15-Jun-2024 00:45:30

Instrument ID: 10193

Operator ID: MEC29284

Lims ID: IC std7 25

Worklist Smp#: 19

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

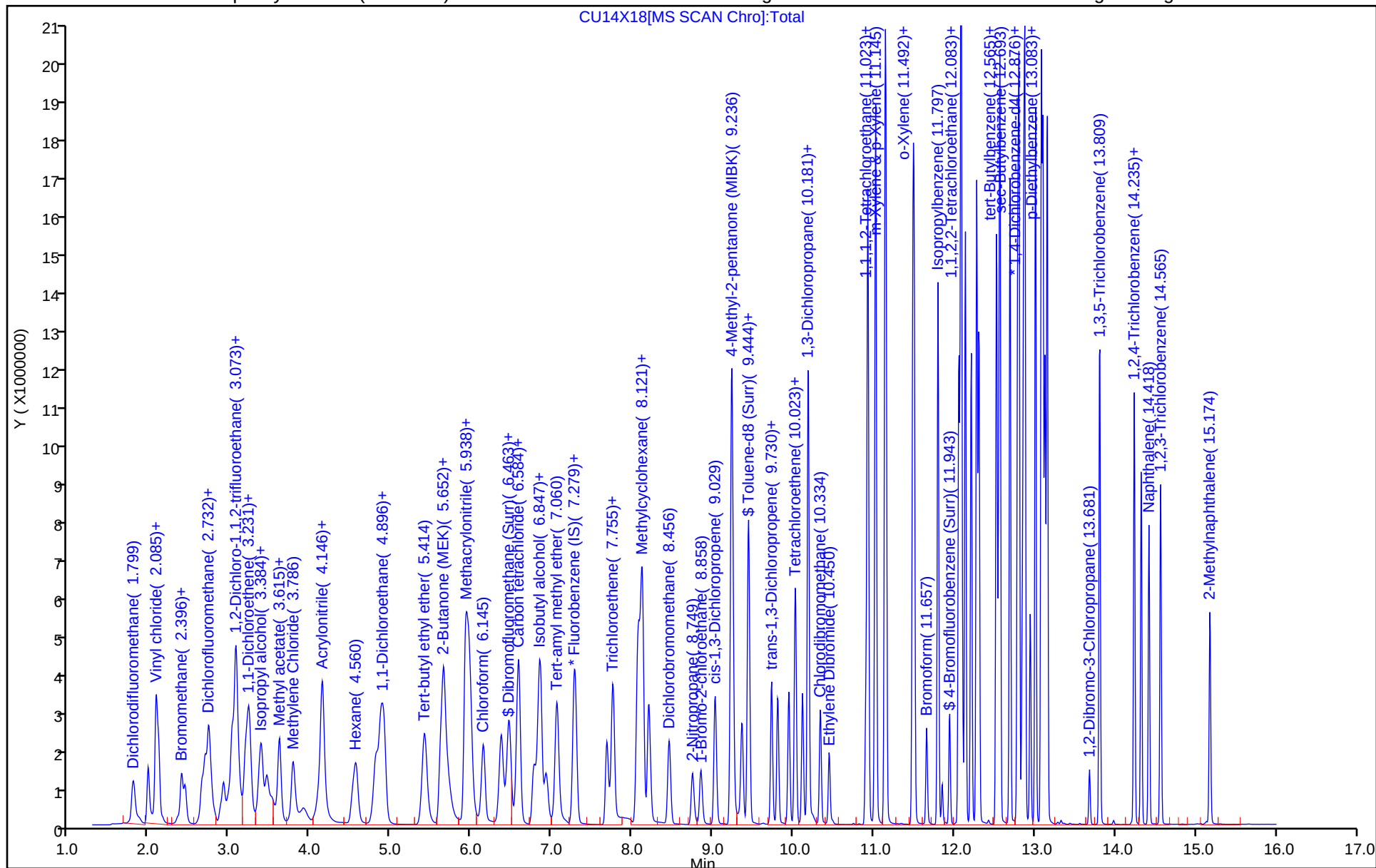
ALS Bottle#: 18

Method: MSV_10193_25mL

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

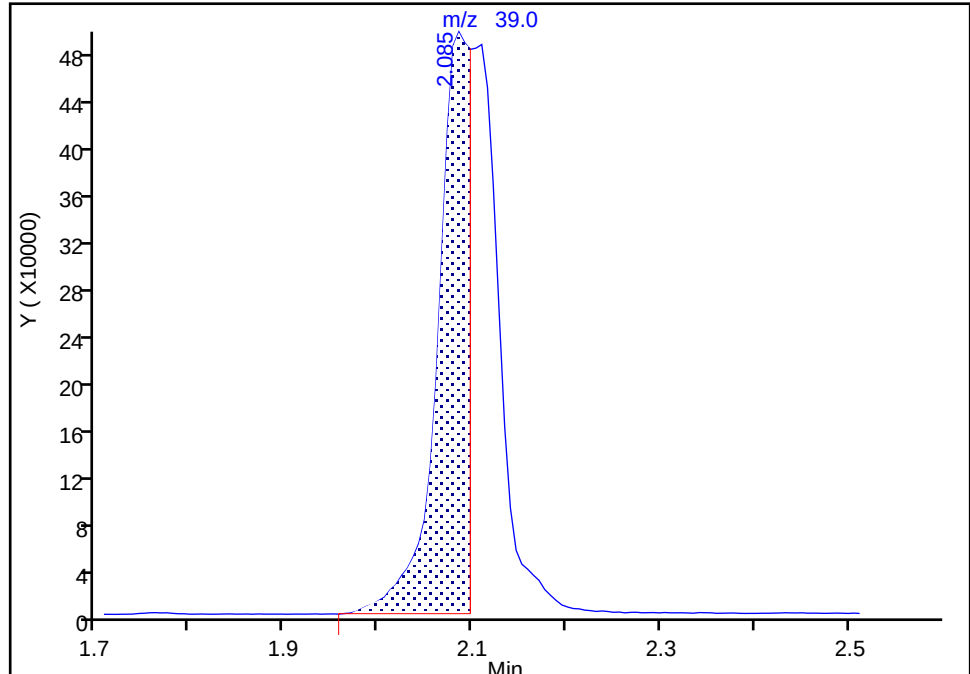
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Injection Date: 15-Jun-2024 00:45:30 Instrument ID: 10193
Lims ID: IC std7 25
Client ID:
Operator ID: MEC29284 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

7 Butadiene, CAS: 106-99-0

Signal: 1

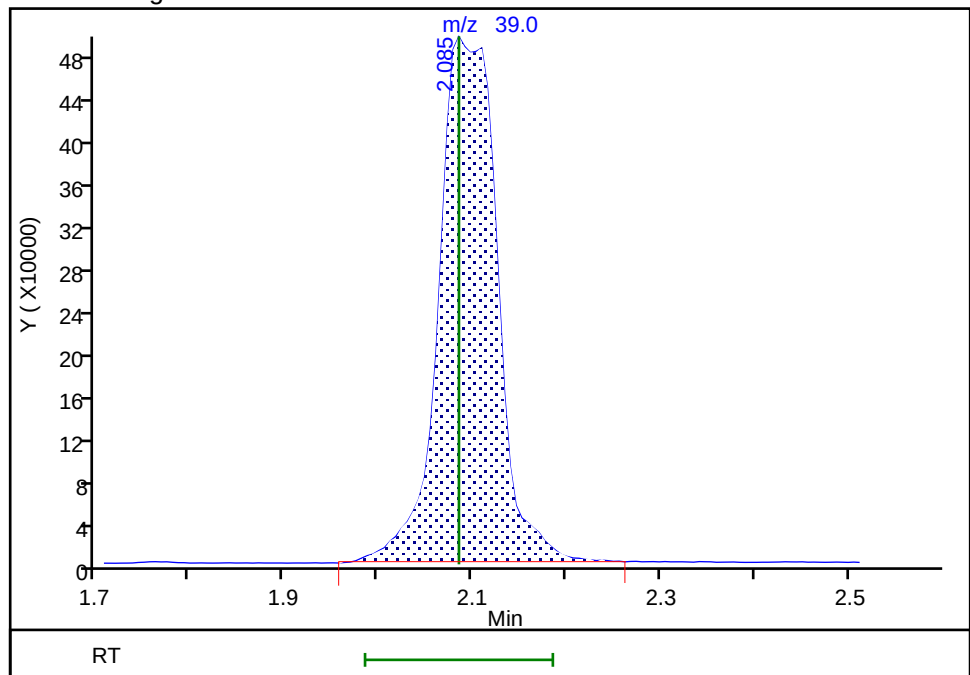
RT: 2.09
Area: 1222598
Amount: 14.774317
Amount Units: ug/l

Processing Integration Results



RT: 2.09
Area: 2161710
Amount: 24.532011
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:49:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

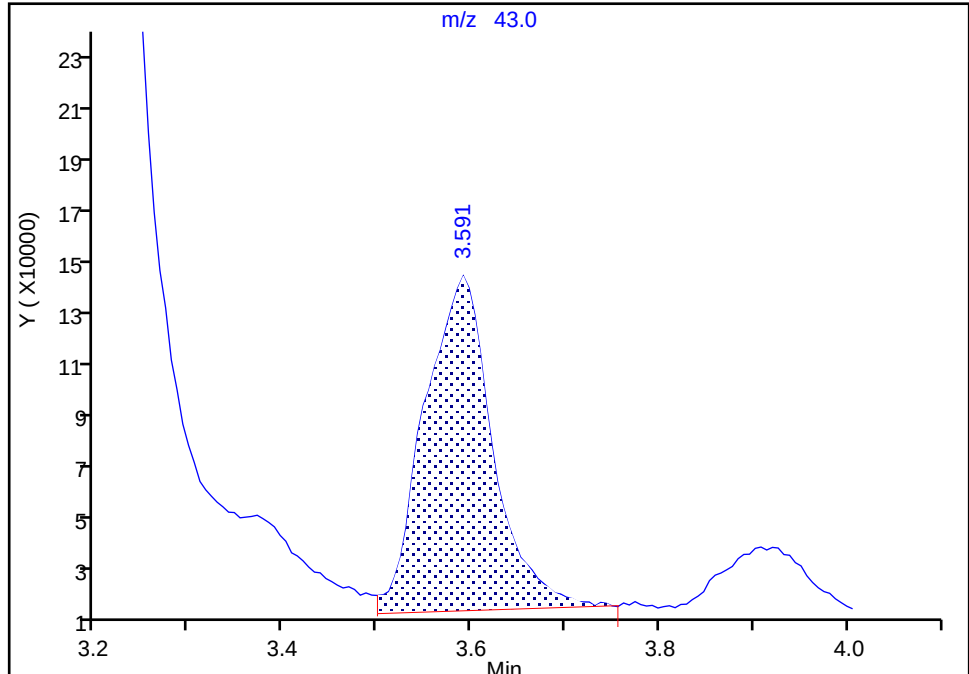
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Injection Date: 15-Jun-2024 00:45:30 Instrument ID: 10193
Lims ID: IC std7 25
Client ID:
Operator ID: MEC29284 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

26 Methyl acetate, CAS: 79-20-9

Signal: 1

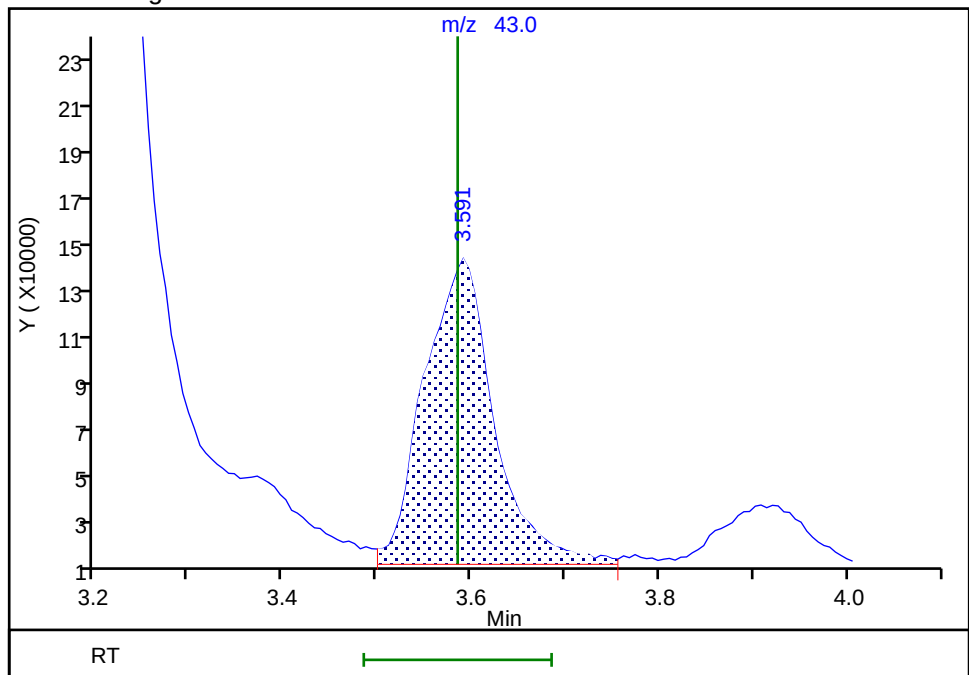
RT: 3.59
Area: 644697
Amount: 26.852312
Amount Units: ug/l

Processing Integration Results



RT: 3.59
Area: 648417
Amount: 24.206654
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:50:08 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

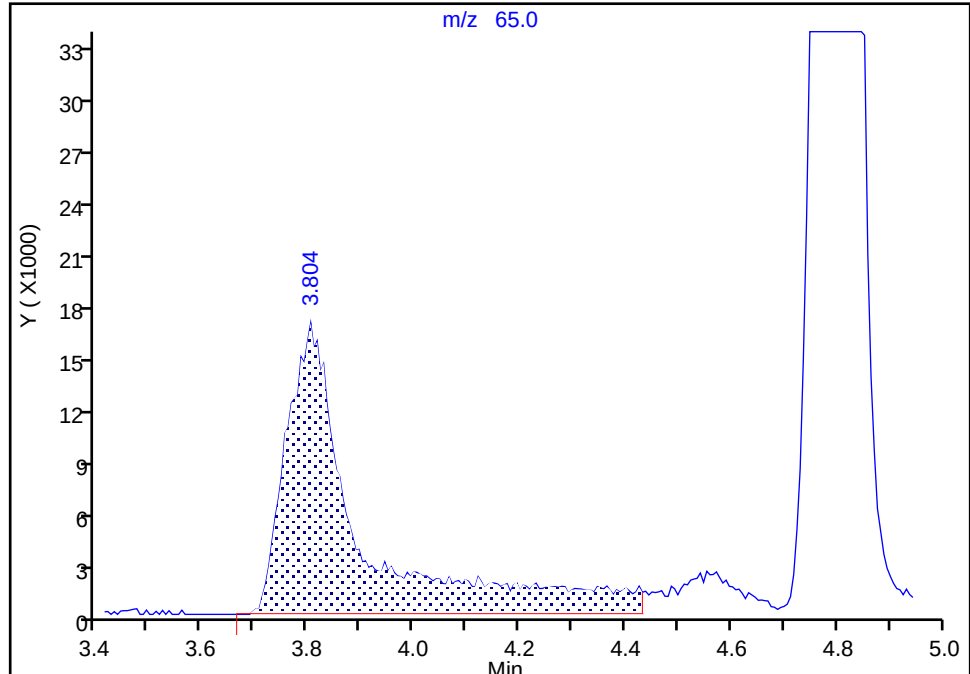
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Injection Date: 15-Jun-2024 00:45:30 Instrument ID: 10193
Lims ID: IC std7 25
Client ID:
Operator ID: MEC29284 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 31 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

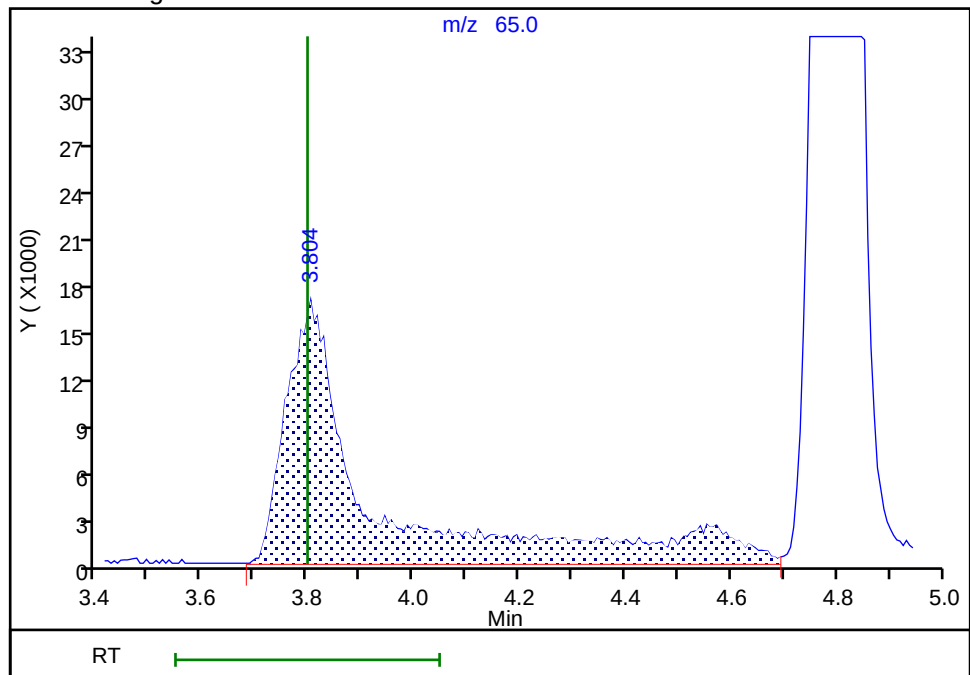
RT: 3.80
Area: 165669
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.80
Area: 188137
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 17-Jun-2024 19:14:47 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

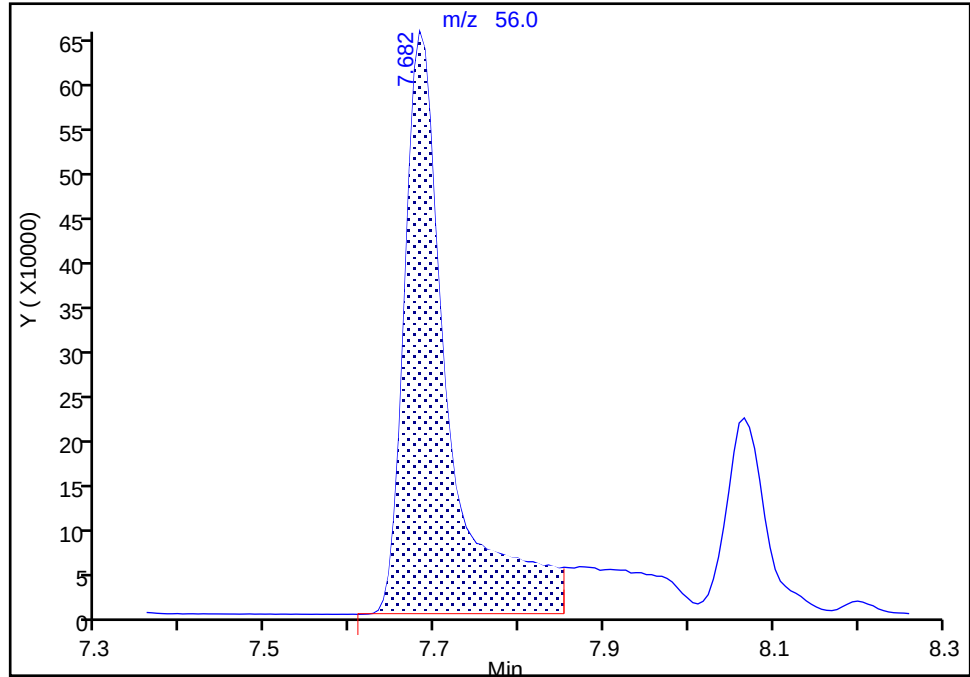
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Injection Date: 15-Jun-2024 00:45:30 Instrument ID: 10193
Lims ID: IC std7 25
Client ID:
Operator ID: MEC29284 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

67 n-Butanol, CAS: 71-36-3

Signal: 1

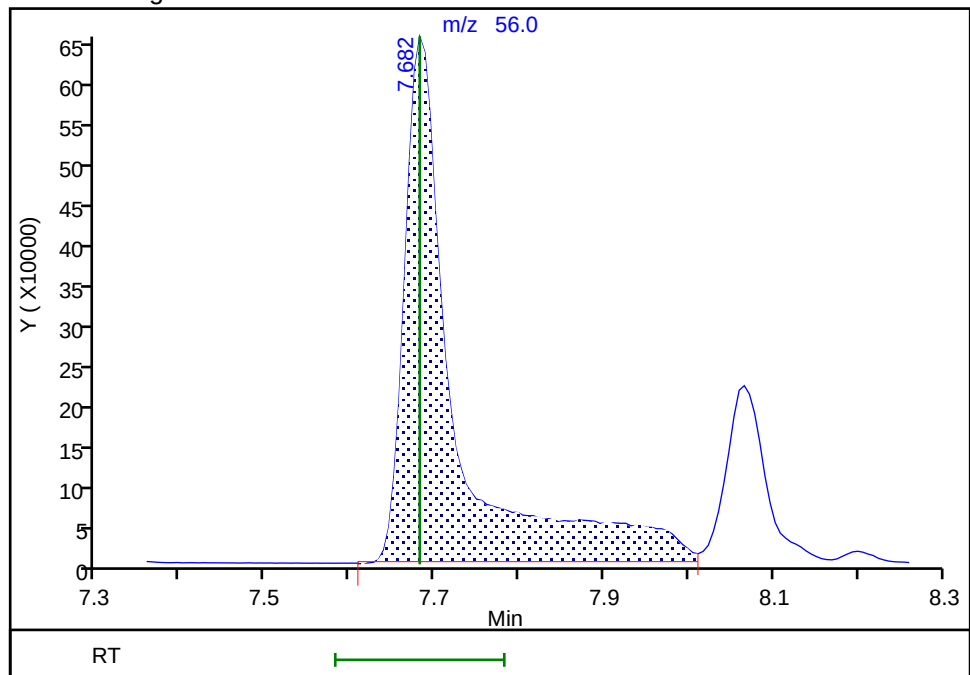
RT: 7.68
Area: 2380326
Amount: 2262.0766
Amount Units: ug/l

Processing Integration Results



RT: 7.68
Area: 2771268
Amount: 2310.4820
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:51:09 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

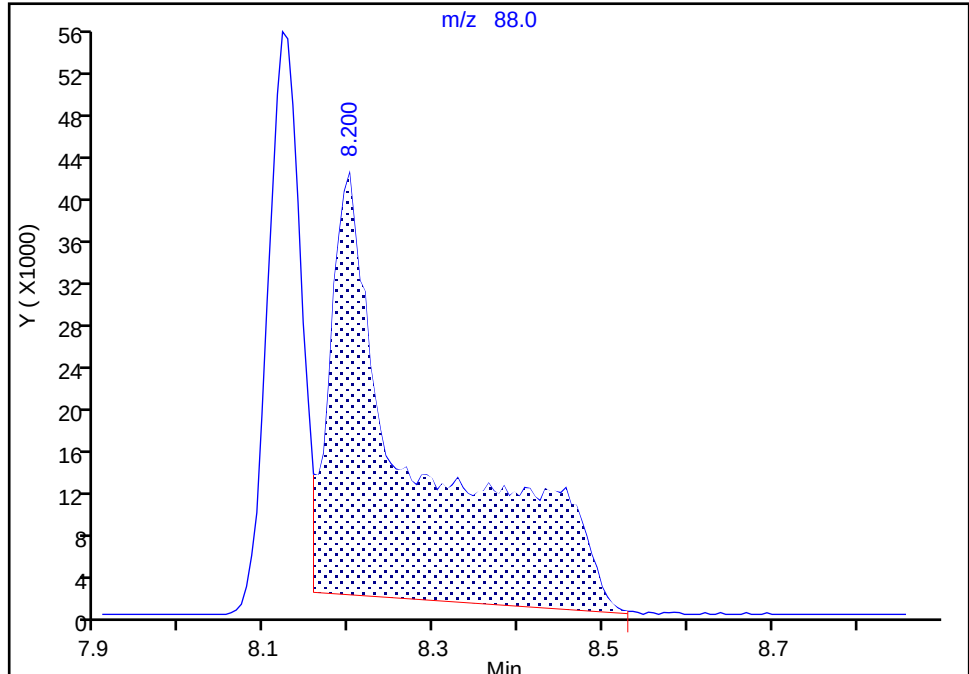
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Injection Date: 15-Jun-2024 00:45:30 Instrument ID: 10193
Lims ID: IC std7 25
Client ID:
Operator ID: MEC29284 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

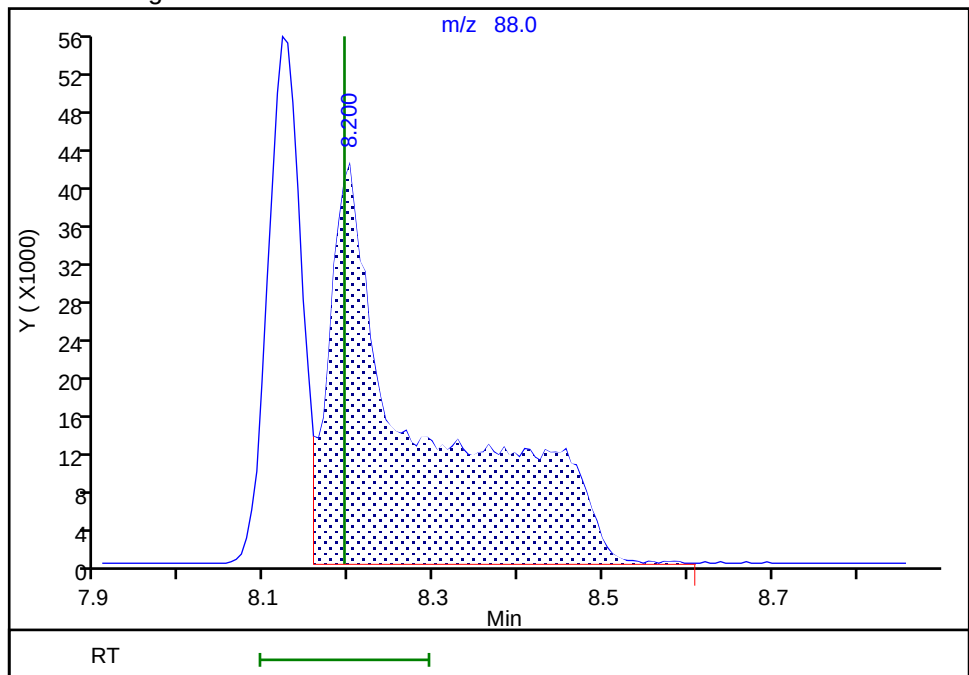
RT: 8.20
Area: 296297
Amount: 1423.5444
Amount Units: ug/l

Processing Integration Results



RT: 8.20
Area: 320840
Amount: 1363.1481
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 13:52:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Calibration

/ Dichlorodifluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

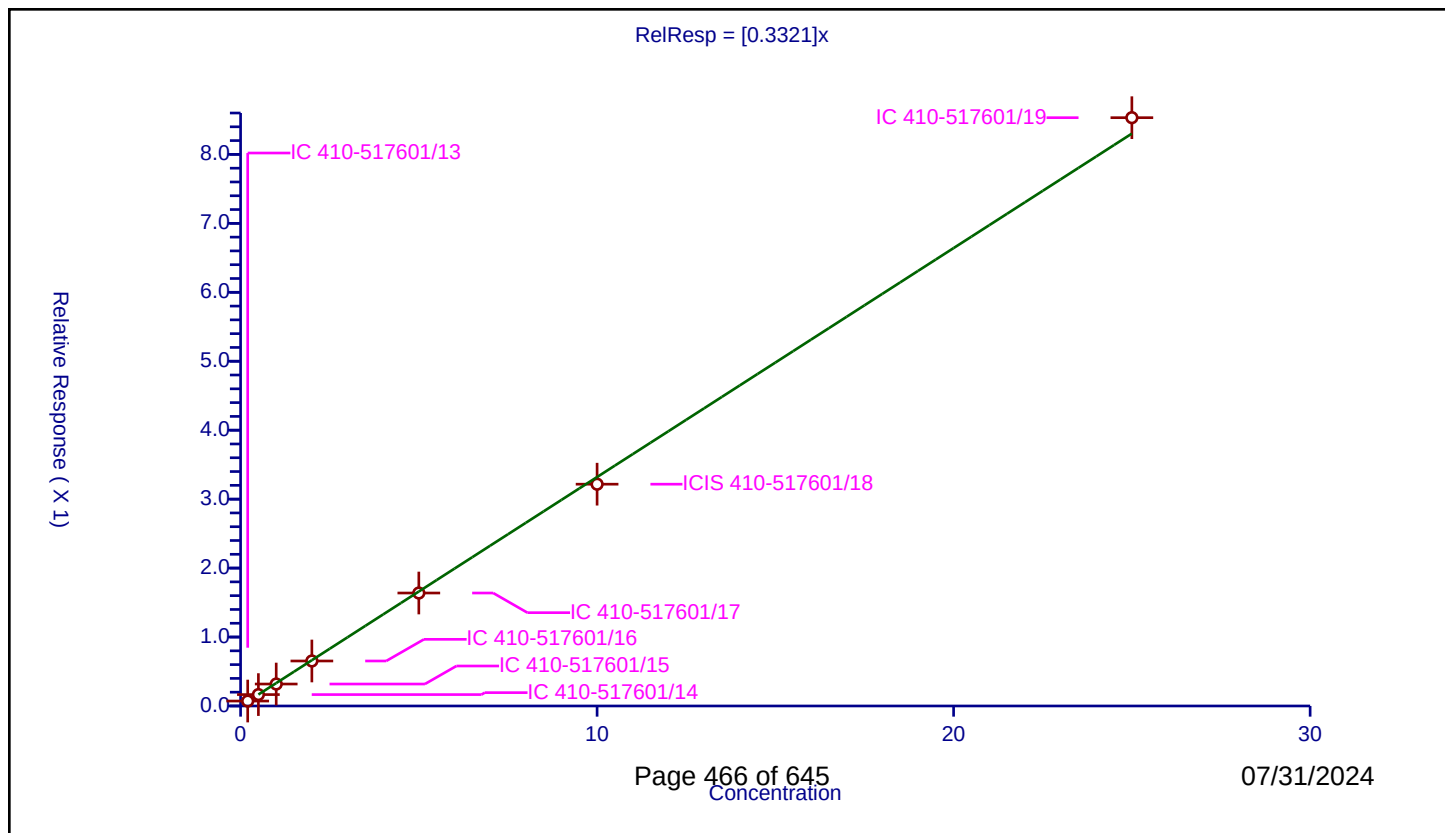
Curve Coefficients

Intercept: 0
Slope: 0.3321

Error Coefficients

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.071697	10.0	2259919.0	0.358486	Y
2	IC 410-517601/14	0.5	0.16528	10.0	2249339.0	0.330559	Y
3	IC 410-517601/15	1.0	0.318332	10.0	2225227.0	0.318332	Y
4	IC 410-517601/16	2.0	0.65274	10.0	2217927.0	0.32637	Y
5	IC 410-517601/17	5.0	1.638295	10.0	2250394.0	0.327659	Y
6	ICIS 410-517601/18	10.0	3.216951	10.0	2282400.0	0.321695	Y
7	IC 410-517601/19	25.0	8.532427	10.0	2233108.0	0.341297	Y



Calibration

/ Chloromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

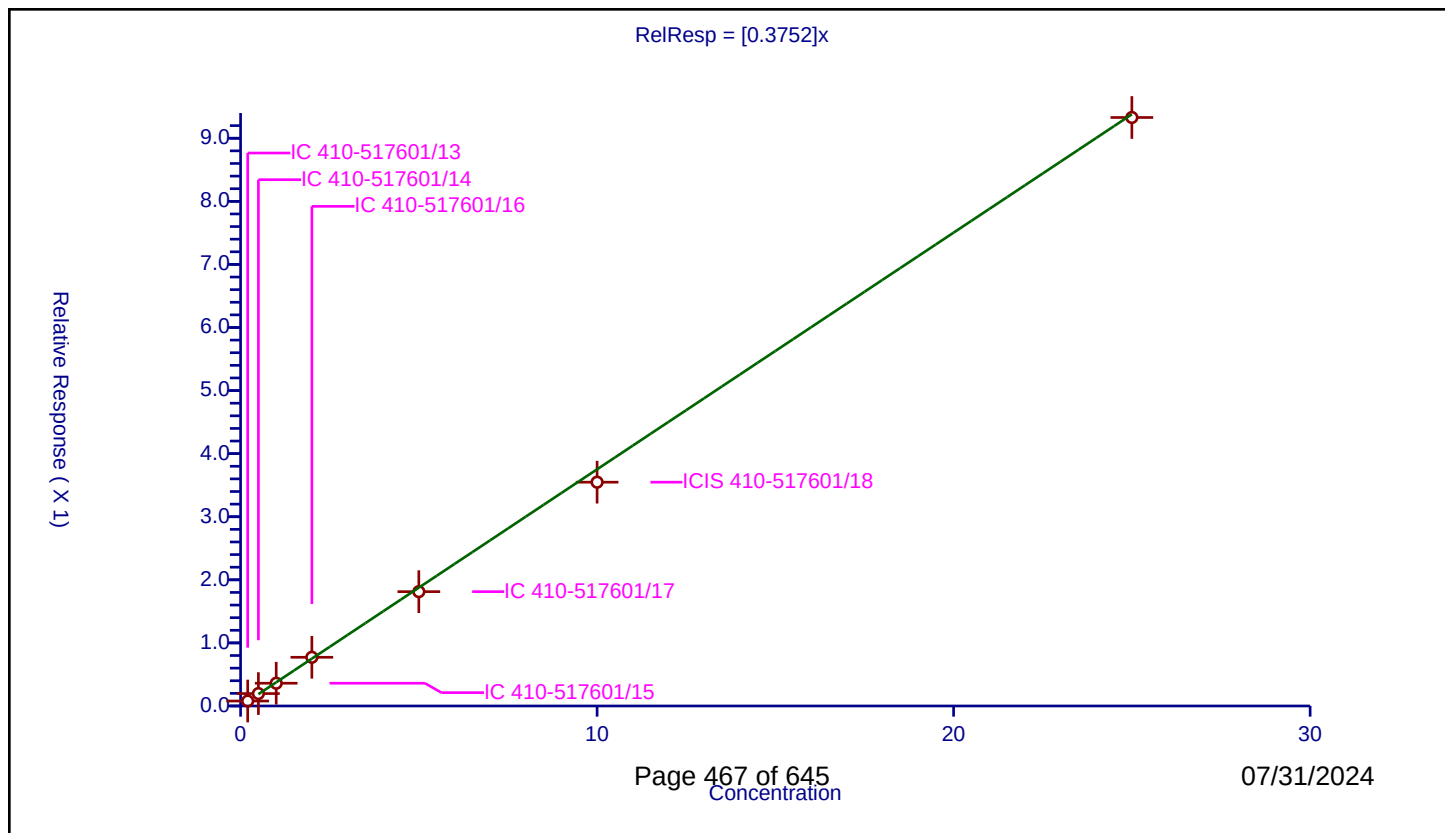
Curve Coefficients

Intercept: 0
Slope: 0.3752

Error Coefficients

Relative Standard Deviation: 4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.078976	10.0	2259919.0	0.394881	Y
2	IC 410-517601/14	0.5	0.196973	10.0	2249339.0	0.393947	Y
3	IC 410-517601/15	1.0	0.360885	10.0	2225227.0	0.360885	Y
4	IC 410-517601/16	2.0	0.772275	10.0	2217927.0	0.386138	Y
5	IC 410-517601/17	5.0	1.812265	10.0	2250394.0	0.362453	Y
6	ICIS 410-517601/18	10.0	3.547893	10.0	2282400.0	0.354789	Y
7	IC 410-517601/19	25.0	9.328926	10.0	2233108.0	0.373157	Y



Calibration

/ Vinyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

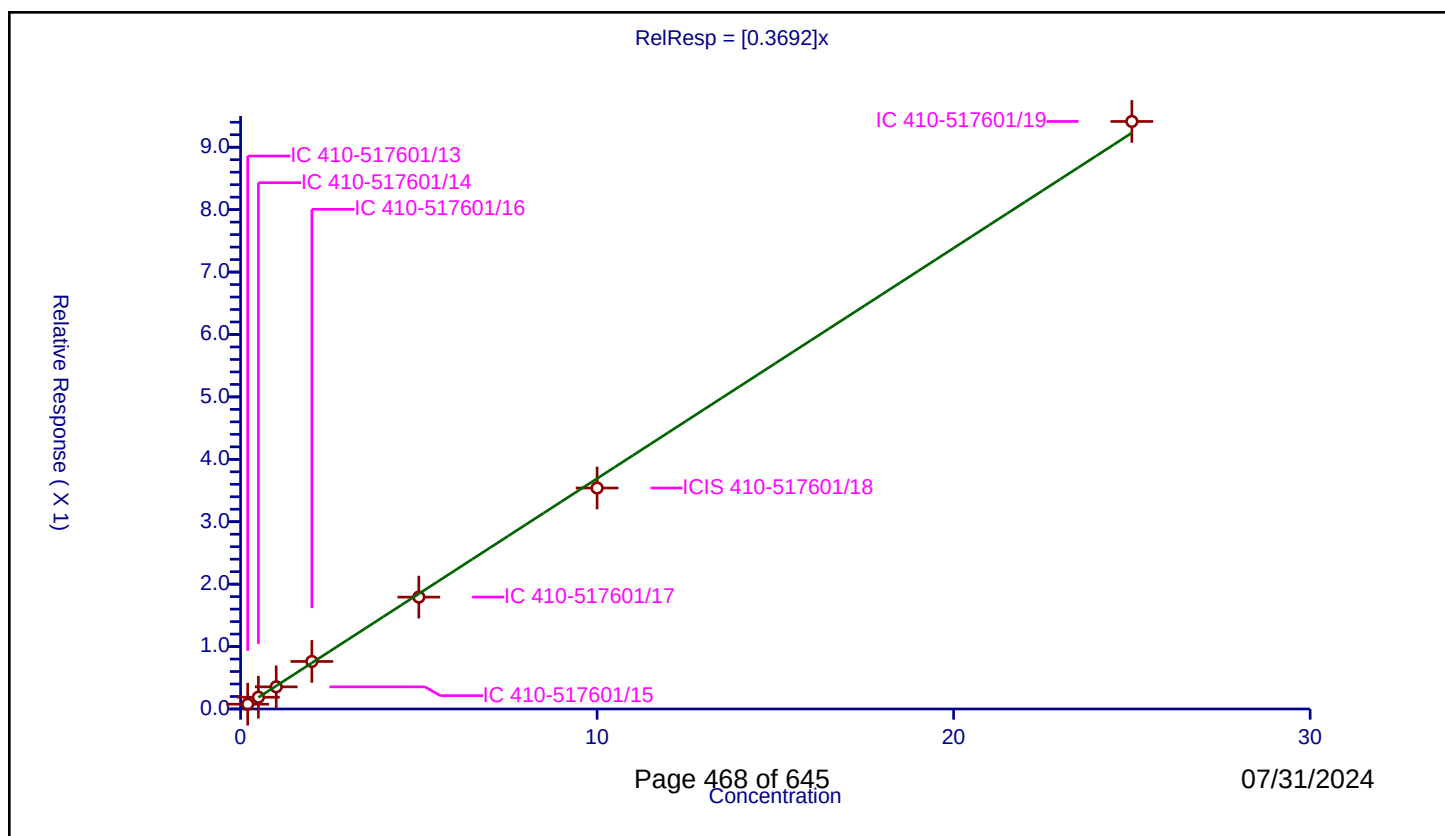
Curve Coefficients

Intercept: 0
Slope: 0.3692

Error Coefficients

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.076543	10.0	2259919.0	0.382713	Y
2	IC 410-517601/14	0.5	0.188451	10.0	2249339.0	0.376902	Y
3	IC 410-517601/15	1.0	0.354957	10.0	2225227.0	0.354957	Y
4	IC 410-517601/16	2.0	0.761427	10.0	2217927.0	0.380714	Y
5	IC 410-517601/17	5.0	1.792508	10.0	2250394.0	0.358502	Y
6	ICIS 410-517601/18	10.0	3.540326	10.0	2282400.0	0.354033	Y
7	IC 410-517601/19	25.0	9.412689	10.0	2233108.0	0.376508	Y



Calibration

/ Butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

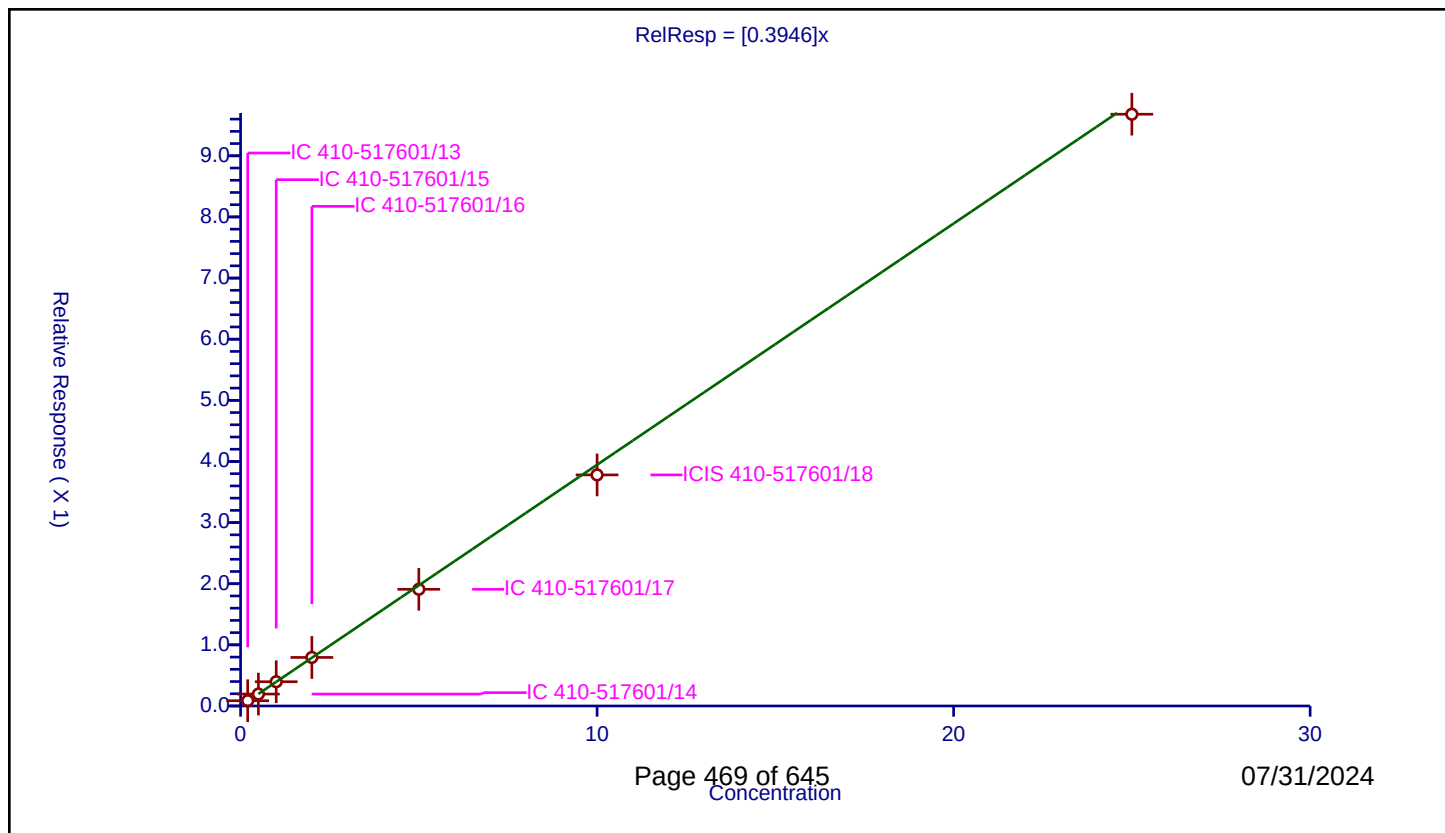
Curve Coefficients

Intercept: 0
Slope: 0.3946

Error Coefficients

Relative Standard Deviation: 4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.086118	10.0	2259919.0	0.430591	Y
2	IC 410-517601/14	0.5	0.195266	10.0	2249339.0	0.390533	Y
3	IC 410-517601/15	1.0	0.396921	10.0	2225227.0	0.396921	Y
4	IC 410-517601/16	2.0	0.794282	10.0	2217927.0	0.397141	Y
5	IC 410-517601/17	5.0	1.908946	10.0	2250394.0	0.381789	Y
6	ICIS 410-517601/18	10.0	3.779982	10.0	2282400.0	0.377998	Y
7	IC 410-517601/19	25.0	9.680275	10.0	2233108.0	0.387211	Y



Calibration

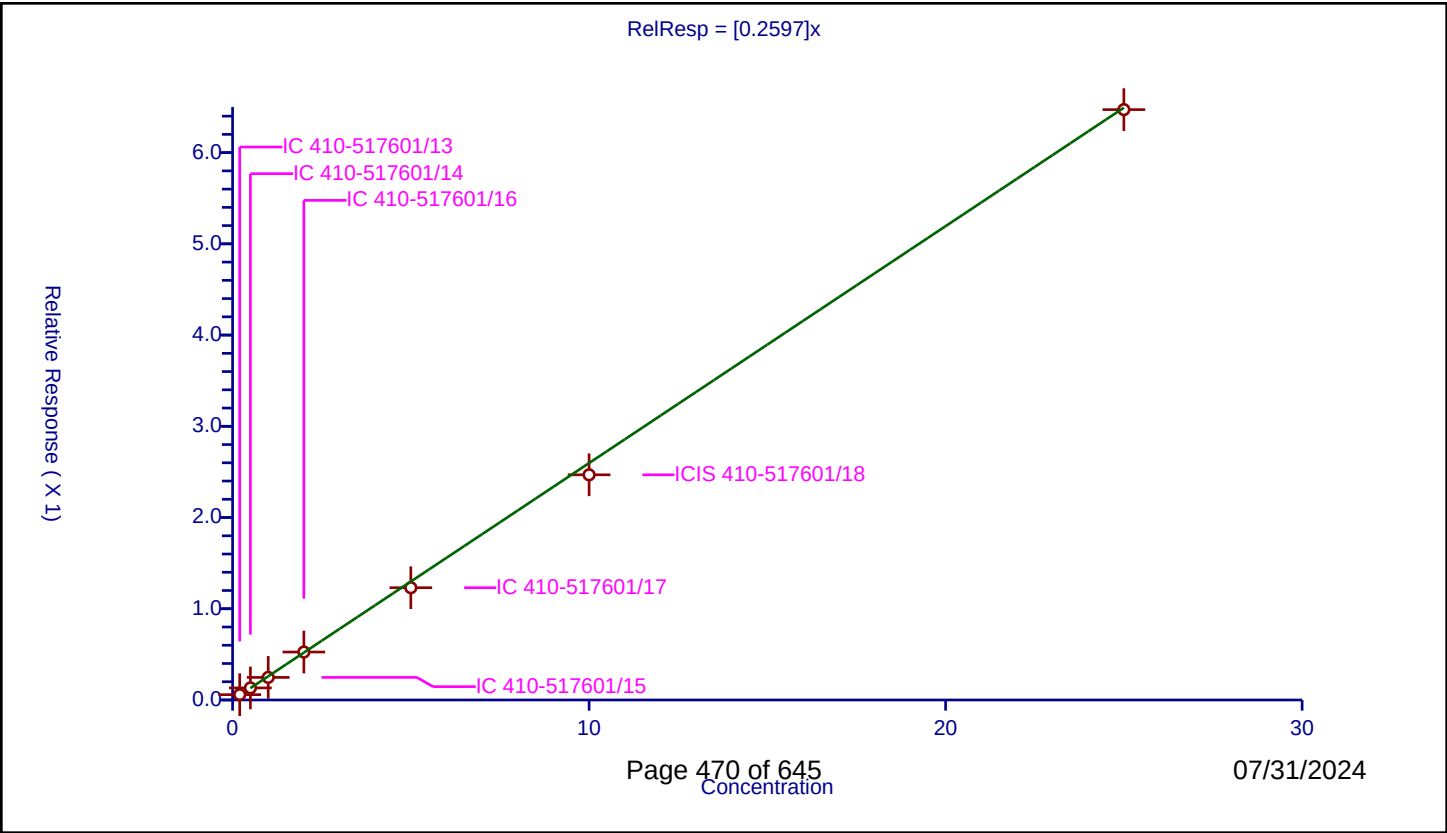
/ Bromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2597
Error Coefficients	

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.05821	10.0	2259919.0	0.29105	Y
2	IC 410-517601/14	0.5	0.132332	10.0	2249339.0	0.264664	Y
3	IC 410-517601/15	1.0	0.247521	10.0	2225227.0	0.247521	Y
4	IC 410-517601/16	2.0	0.525626	10.0	2217927.0	0.262813	Y
5	IC 410-517601/17	5.0	1.230687	10.0	2250394.0	0.246137	Y
6	ICIS 410-517601/18	10.0	2.468402	10.0	2282400.0	0.24684	Y
7	IC 410-517601/19	25.0	6.471232	10.0	2233108.0	0.258849	Y



Calibration

/ Chloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

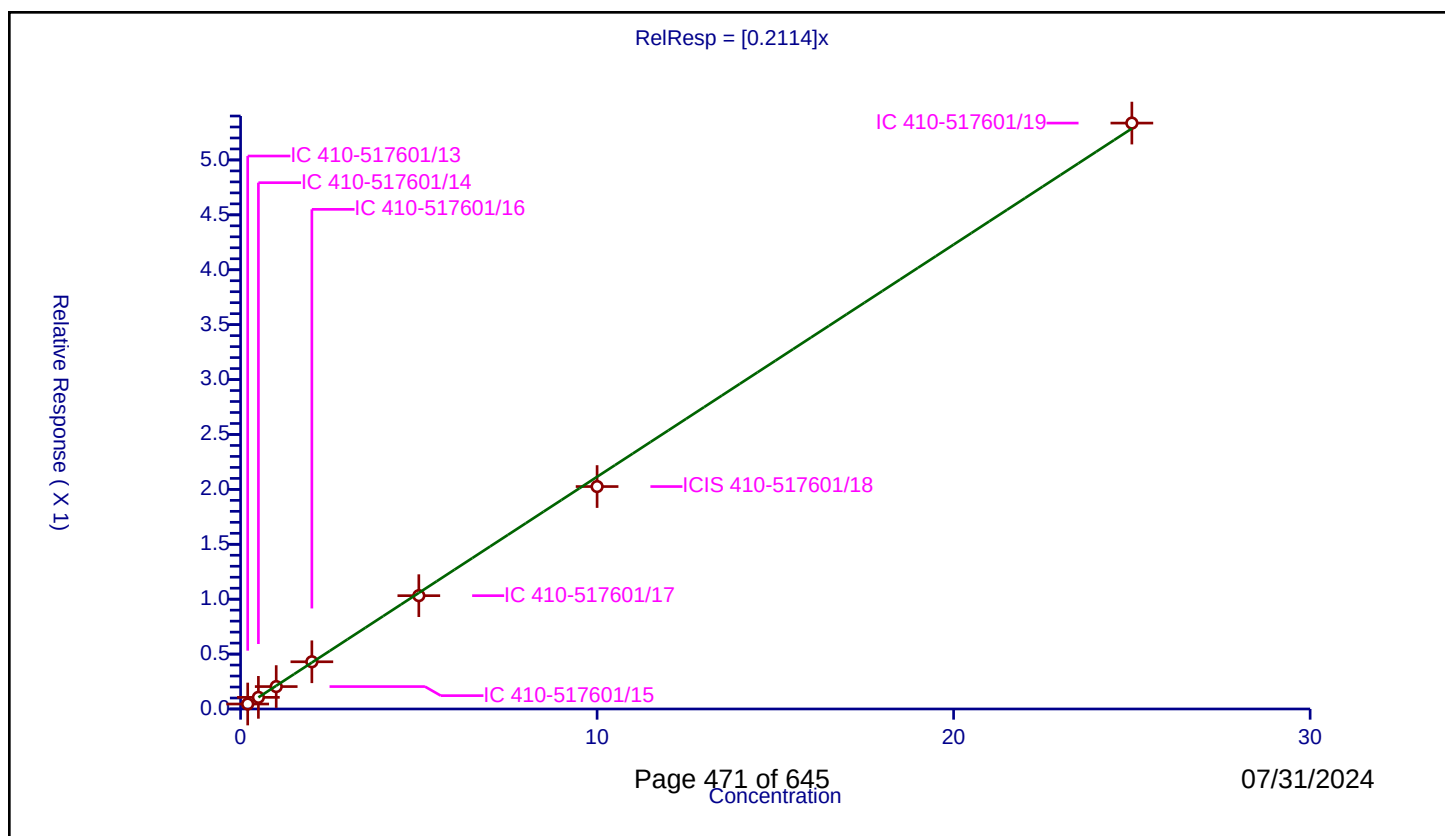
Curve Coefficients

Intercept: 0
Slope: 0.2114

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.045303	10.0	2259919.0	0.226513	Y
2	IC 410-517601/14	0.5	0.106058	10.0	2249339.0	0.212116	Y
3	IC 410-517601/15	1.0	0.204092	10.0	2225227.0	0.204092	Y
4	IC 410-517601/16	2.0	0.430055	10.0	2217927.0	0.215027	Y
5	IC 410-517601/17	5.0	1.031975	10.0	2250394.0	0.206395	Y
6	ICIS 410-517601/18	10.0	2.025723	10.0	2282400.0	0.202572	Y
7	IC 410-517601/19	25.0	5.33555	10.0	2233108.0	0.213422	Y



Calibration

/ Dichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

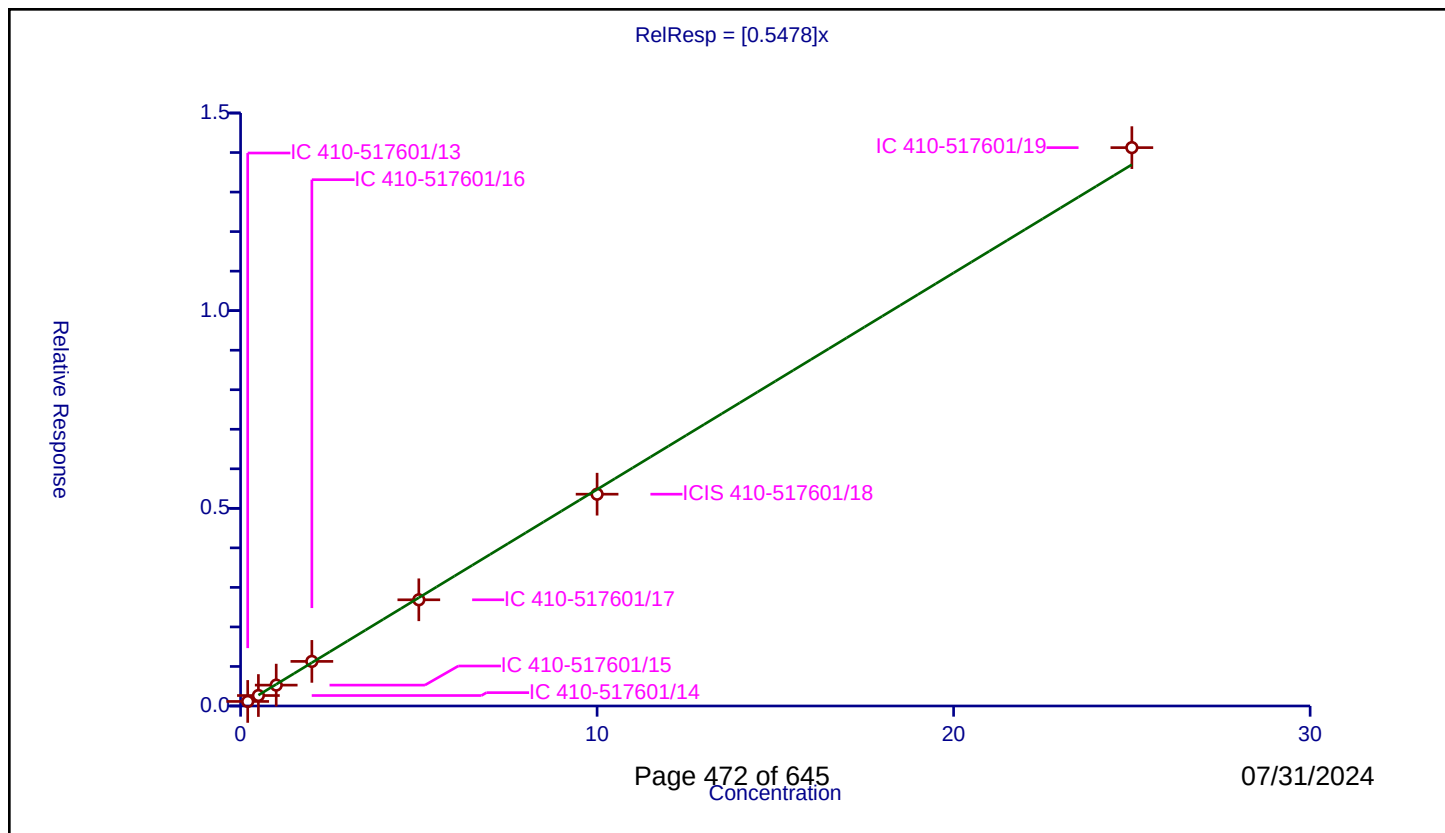
Curve Coefficients

Intercept: 0
Slope: 0.5478

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.114973	10.0	2259919.0	0.574866	Y
2	IC 410-517601/14	0.5	0.264971	10.0	2249339.0	0.529942	Y
3	IC 410-517601/15	1.0	0.527627	10.0	2225227.0	0.527627	Y
4	IC 410-517601/16	2.0	1.128193	10.0	2217927.0	0.564097	Y
5	IC 410-517601/17	5.0	2.68613	10.0	2250394.0	0.537226	Y
6	ICIS 410-517601/18	10.0	5.357654	10.0	2282400.0	0.535765	Y
7	IC 410-517601/19	25.0	14.124637	10.0	2233108.0	0.564985	Y



Calibration

/ Trichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

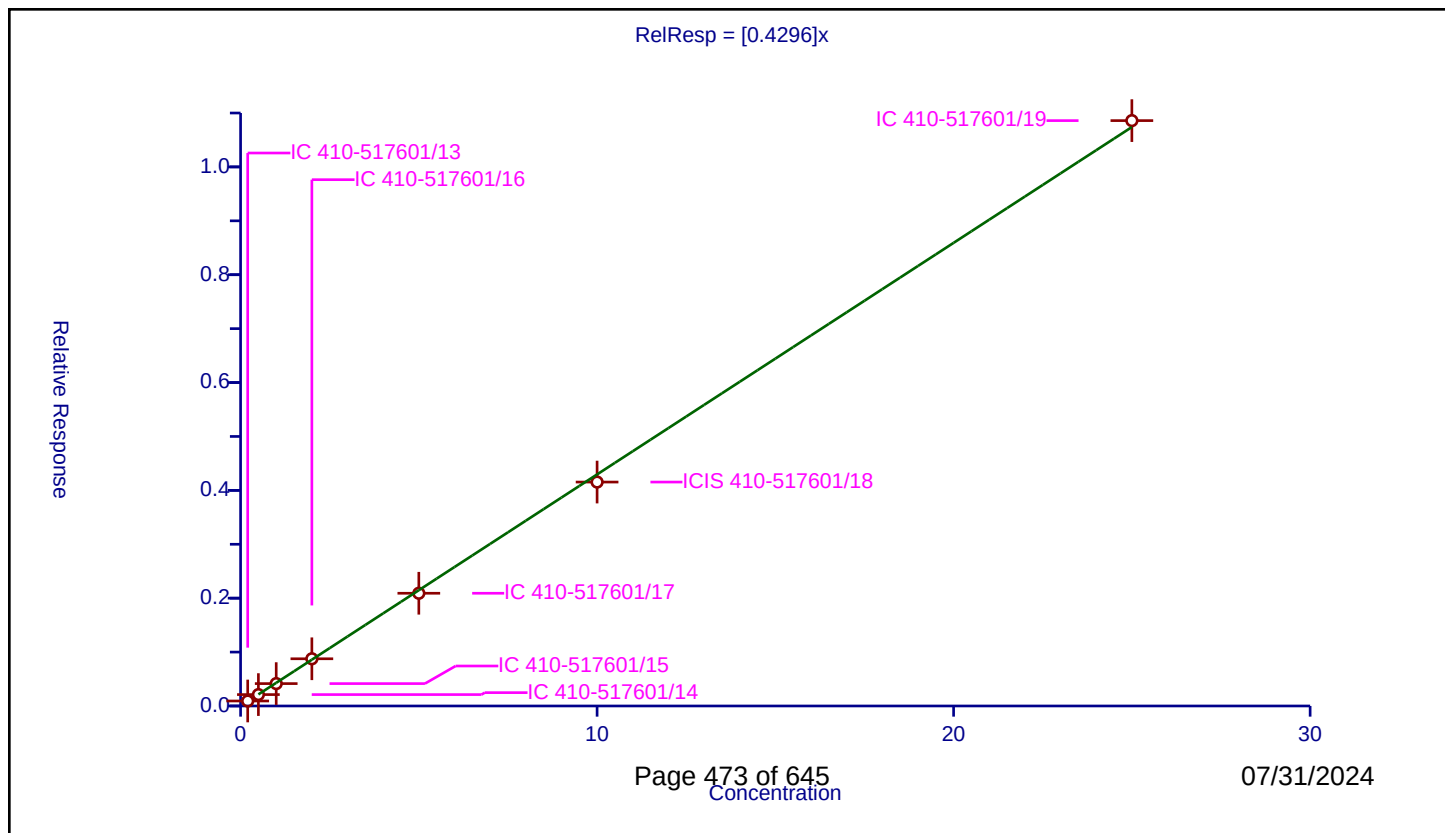
Curve Coefficients

Intercept: 0
Slope: 0.4296

Error Coefficients

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.092583	10.0	2259919.0	0.462915	Y
2	IC 410-517601/14	0.5	0.211391	10.0	2249339.0	0.422782	Y
3	IC 410-517601/15	1.0	0.415513	10.0	2225227.0	0.415513	Y
4	IC 410-517601/16	2.0	0.875809	10.0	2217927.0	0.437904	Y
5	IC 410-517601/17	5.0	2.091029	10.0	2250394.0	0.418206	Y
6	ICIS 410-517601/18	10.0	4.153891	10.0	2282400.0	0.415389	Y
7	IC 410-517601/19	25.0	10.858785	10.0	2233108.0	0.434351	Y



Calibration

/ Ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

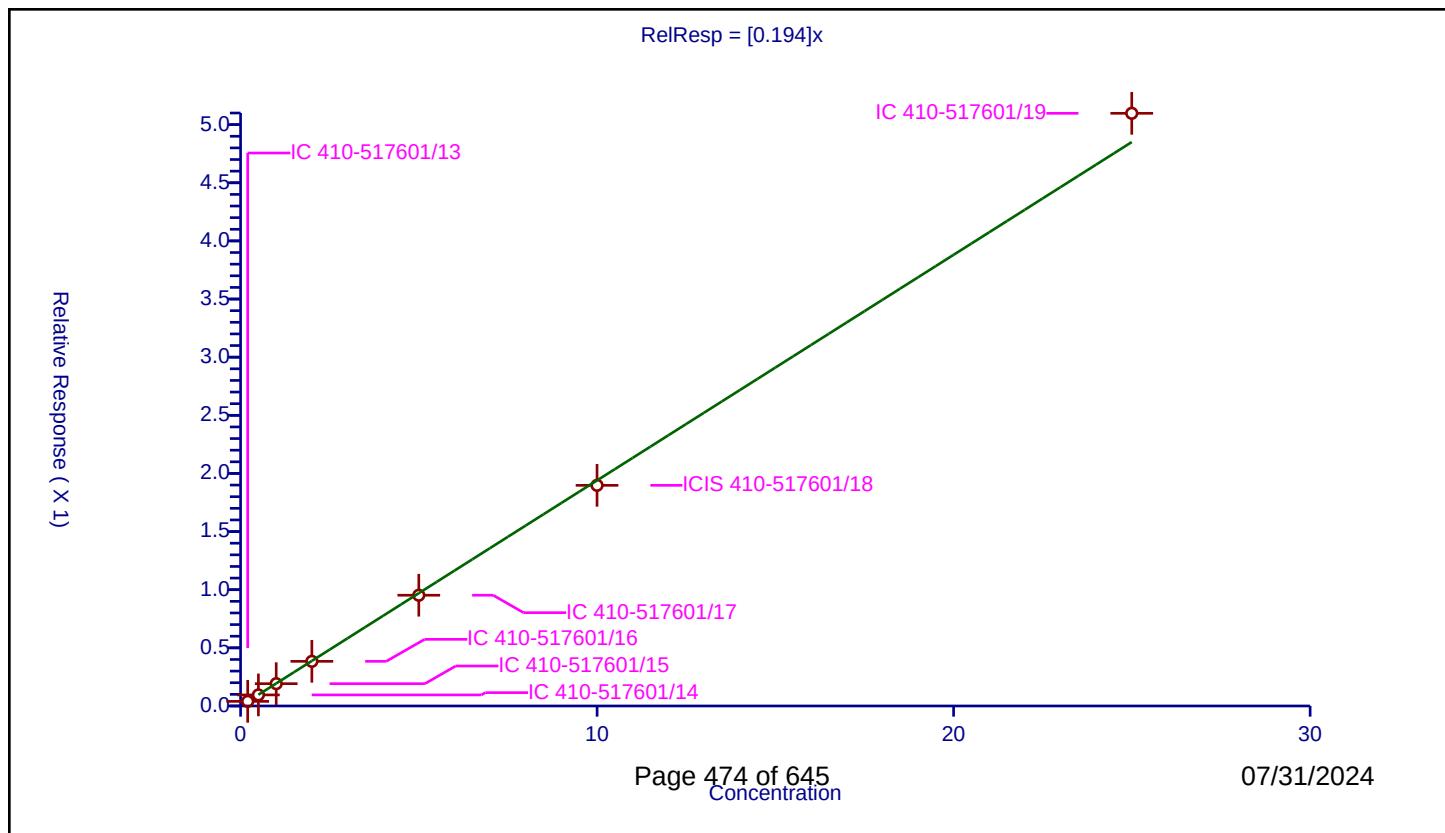
Curve Coefficients

Intercept: 0
Slope: 0.194

Error Coefficients

Relative Standard Deviation: 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.199979	0.039869	10.0	2259919.0	0.199364	Y
2	IC 410-517601/14	0.499948	0.095321	10.0	2249339.0	0.190662	Y
3	IC 410-517601/15	0.999897	0.191909	10.0	2225227.0	0.191928	Y
4	IC 410-517601/16	1.999794	0.383935	10.0	2217927.0	0.191987	Y
5	IC 410-517601/17	4.999484	0.95258	10.0	2250394.0	0.190536	Y
6	ICIS 410-517601/18	9.998968	1.897779	10.0	2282400.0	0.189797	Y
7	IC 410-517601/19	24.99742	5.097519	10.0	2233108.0	0.203922	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

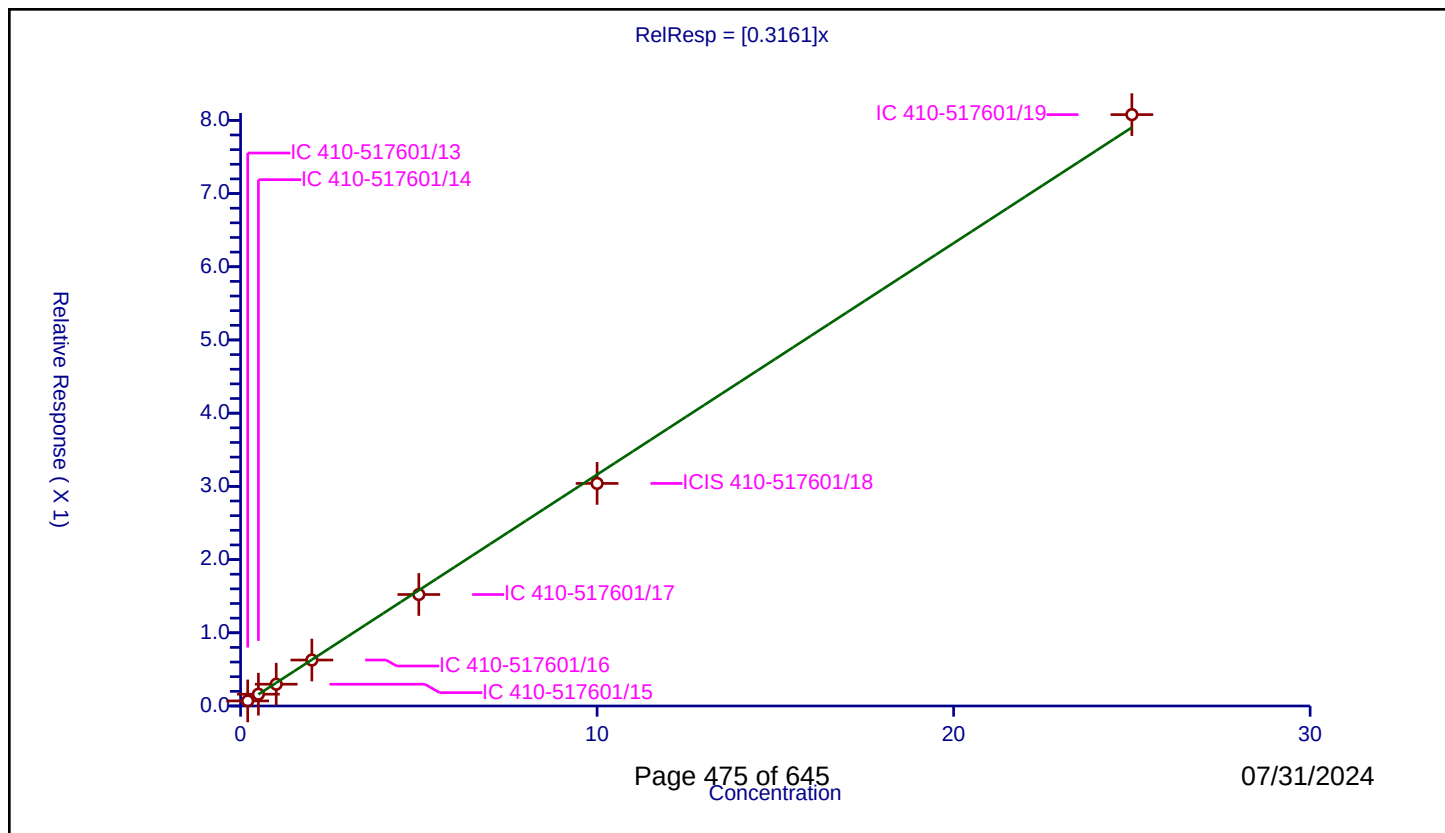
Curve Coefficients

Intercept: 0
Slope: 0.3161

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.069489	10.0	2259919.0	0.347446	Y
2	IC 410-517601/14	0.5	0.16111	10.0	2249339.0	0.322219	Y
3	IC 410-517601/15	1.0	0.297484	10.0	2225227.0	0.297484	Y
4	IC 410-517601/16	2.0	0.627721	10.0	2217927.0	0.313861	Y
5	IC 410-517601/17	5.0	1.522738	10.0	2250394.0	0.304548	Y
6	ICIS 410-517601/18	10.0	3.040436	10.0	2282400.0	0.304044	Y
7	IC 410-517601/19	25.0	8.078199	10.0	2233108.0	0.323128	Y



Calibration

/ Acrolein

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

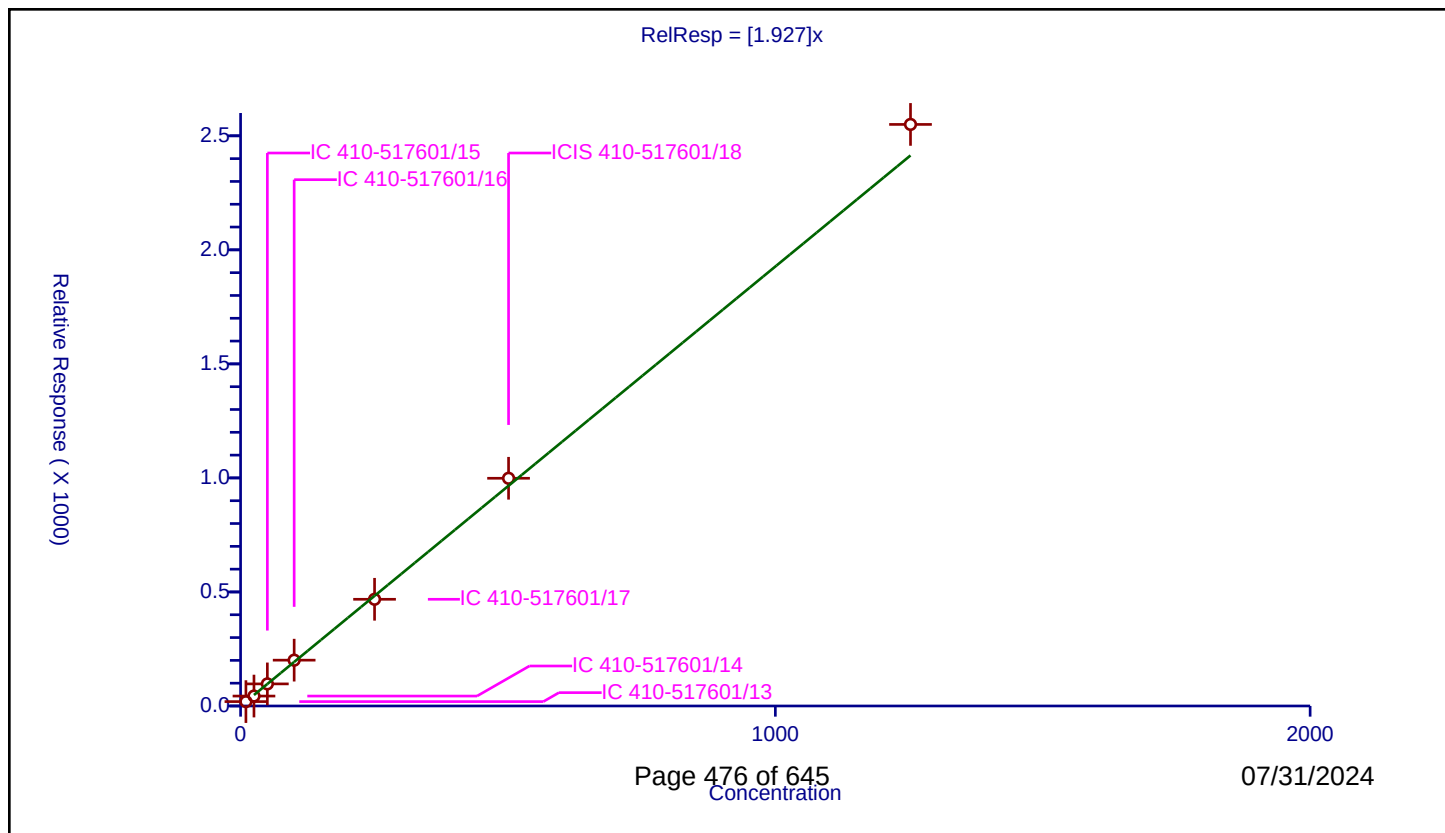
Curve Coefficients

Intercept: 0
Slope: 1.927

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	10.021996	19.212077	50.0	173659.0	1.916991	Y
2	IC 410-517601/14	25.054991	43.552239	50.0	188422.0	1.738266	Y
3	IC 410-517601/15	50.109981	96.875112	50.0	167862.0	1.93325	Y
4	IC 410-517601/16	100.219963	200.888863	50.0	164311.0	2.00448	Y
5	IC 410-517601/17	250.549907	467.859	50.0	180780.0	1.867329	Y
6	ICIS 410-517601/18	501.099813	998.459716	50.0	188699.0	1.992537	Y
7	IC 410-517601/19	1252.749533	2549.989369	50.0	188137.0	2.035514	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

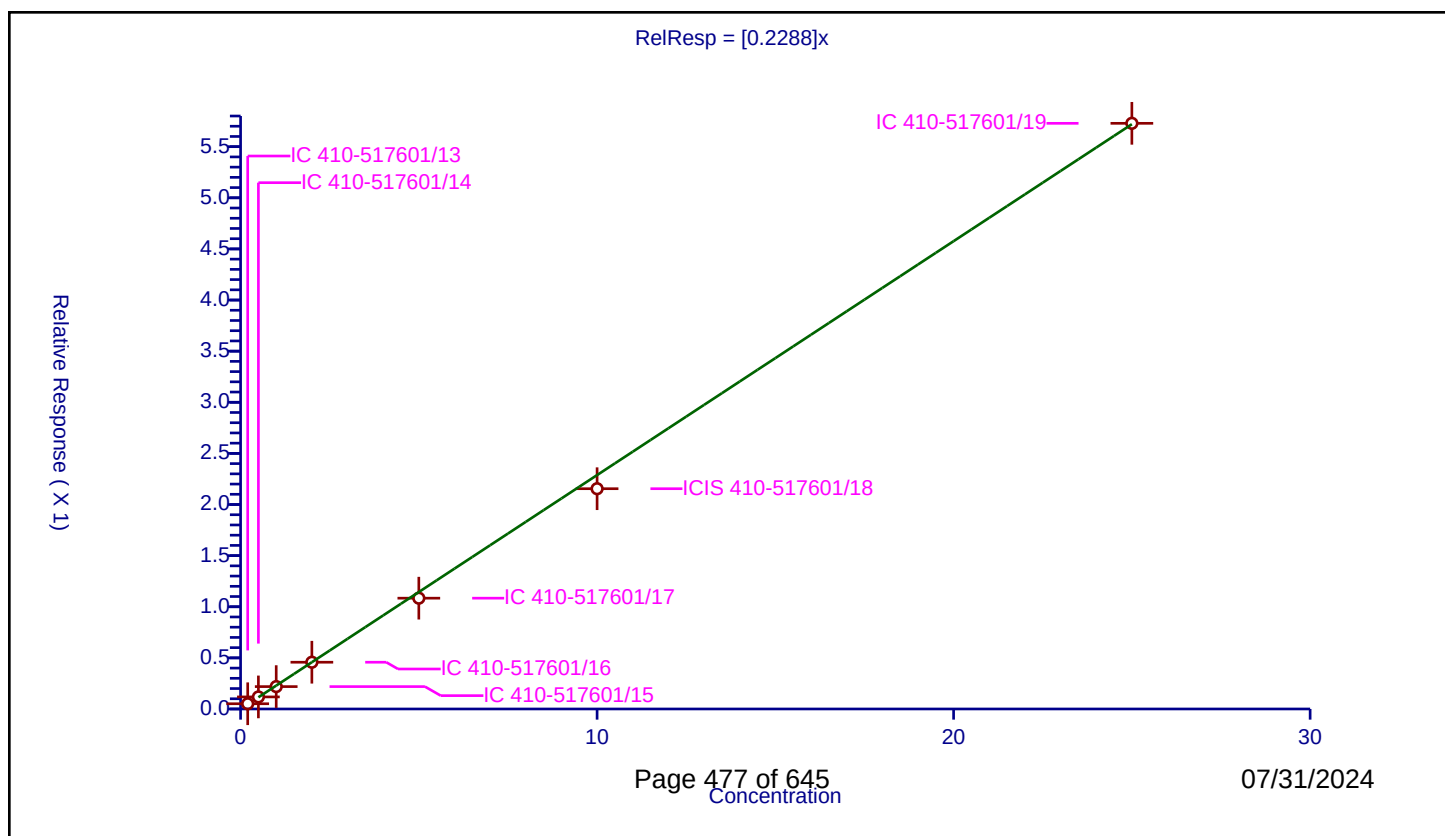
Curve Coefficients

Intercept: 0
Slope: 0.2288

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.051307	10.0	2259919.0	0.256536	Y
2	IC 410-517601/14	0.5	0.117972	10.0	2249339.0	0.235945	Y
3	IC 410-517601/15	1.0	0.218989	10.0	2225227.0	0.218989	Y
4	IC 410-517601/16	2.0	0.457468	10.0	2217927.0	0.228734	Y
5	IC 410-517601/17	5.0	1.083926	10.0	2250394.0	0.216785	Y
6	ICIS 410-517601/18	10.0	2.154517	10.0	2282400.0	0.215452	Y
7	IC 410-517601/19	25.0	5.728505	10.0	2233108.0	0.22914	Y



Calibration

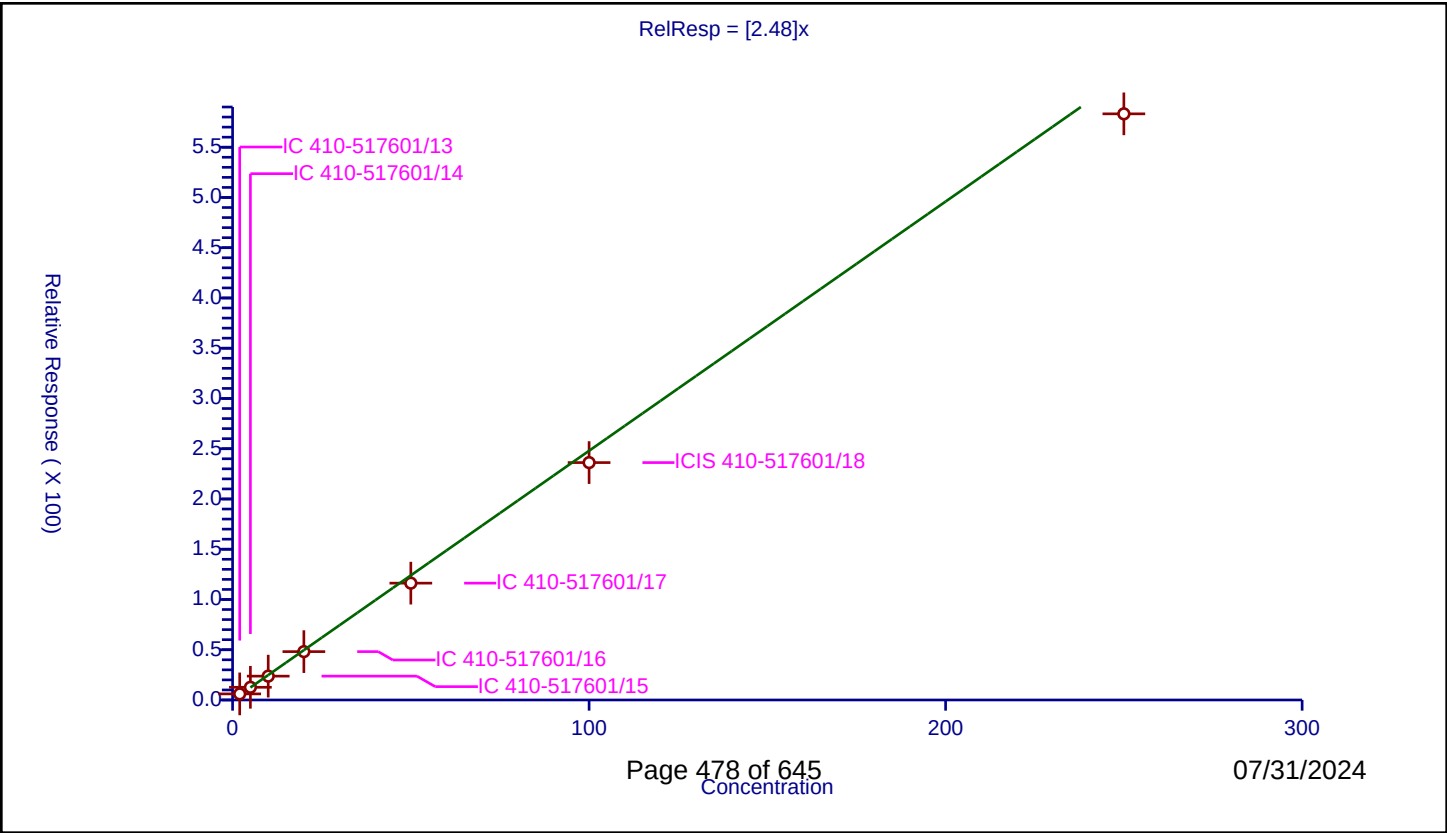
/ Acetone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.48
Error Coefficients	

Relative Standard Deviation: 10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	2.0	6.06188	50.0	173659.0	3.03094	Y
2	IC 410-517601/14	5.0	12.641305	50.0	188422.0	2.528261	Y
3	IC 410-517601/15	10.0	23.723654	50.0	167862.0	2.372365	Y
4	IC 410-517601/16	20.0	48.123071	50.0	164311.0	2.406154	Y
5	IC 410-517601/17	50.0	116.252351	50.0	180780.0	2.325047	Y
6	ICIS 410-517601/18	100.0	236.206339	50.0	188699.0	2.362063	Y
7	IC 410-517601/19	250.0	583.214094	50.0	188137.0	2.332856	Y



Calibration

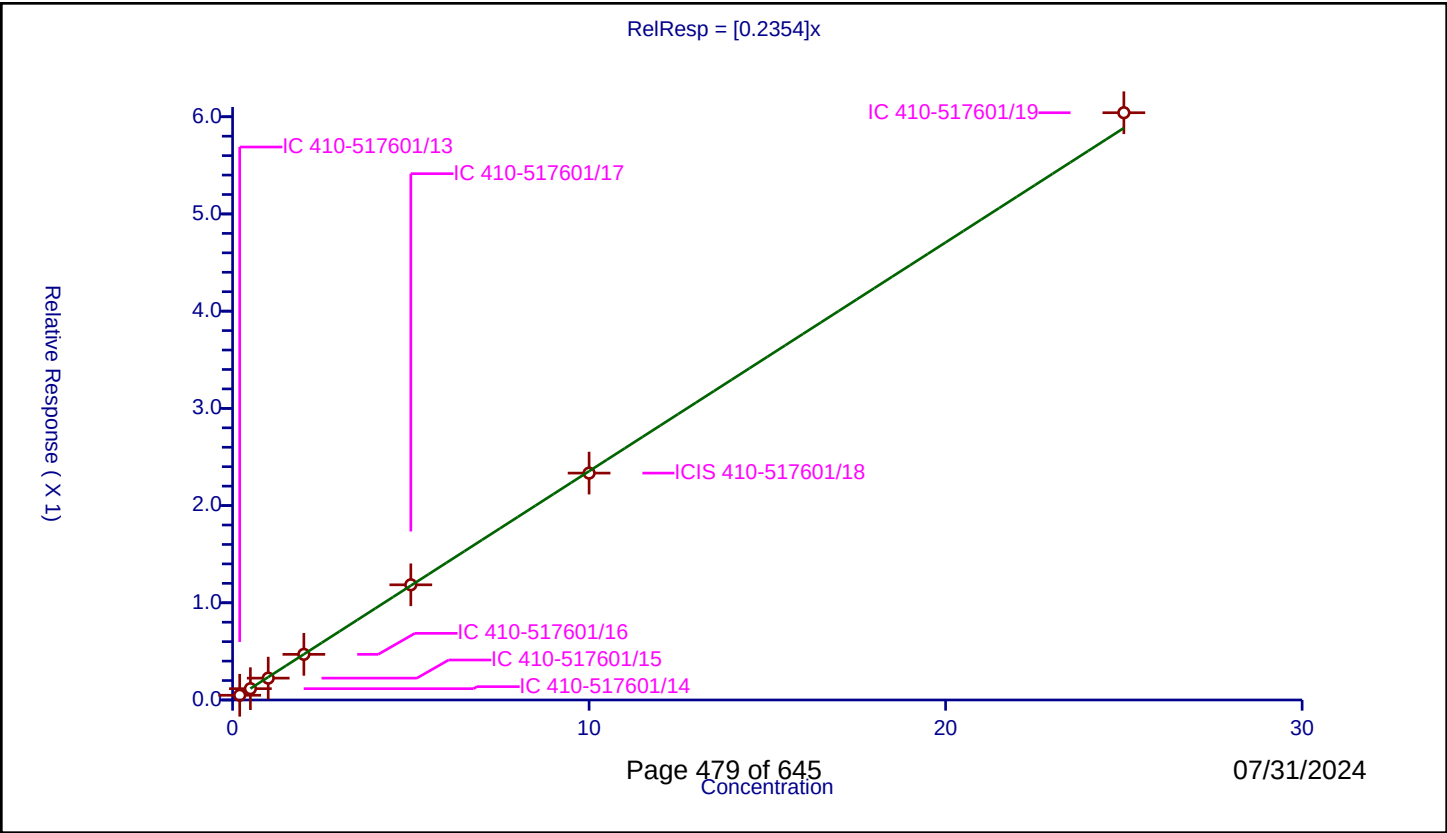
/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2354
Error Coefficients	

Relative Standard Deviation: 2.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.04863	10.0	2259919.0	0.24315	Y
2	IC 410-517601/14	0.5	0.116385	10.0	2249339.0	0.232771	Y
3	IC 410-517601/15	1.0	0.224701	10.0	2225227.0	0.224701	Y
4	IC 410-517601/16	2.0	0.469601	10.0	2217927.0	0.2348	Y
5	IC 410-517601/17	5.0	1.185055	10.0	2250394.0	0.237011	Y
6	ICIS 410-517601/18	10.0	2.334039	10.0	2282400.0	0.233404	Y
7	IC 410-517601/19	25.0	6.041226	10.0	2233108.0	0.241649	Y



Calibration

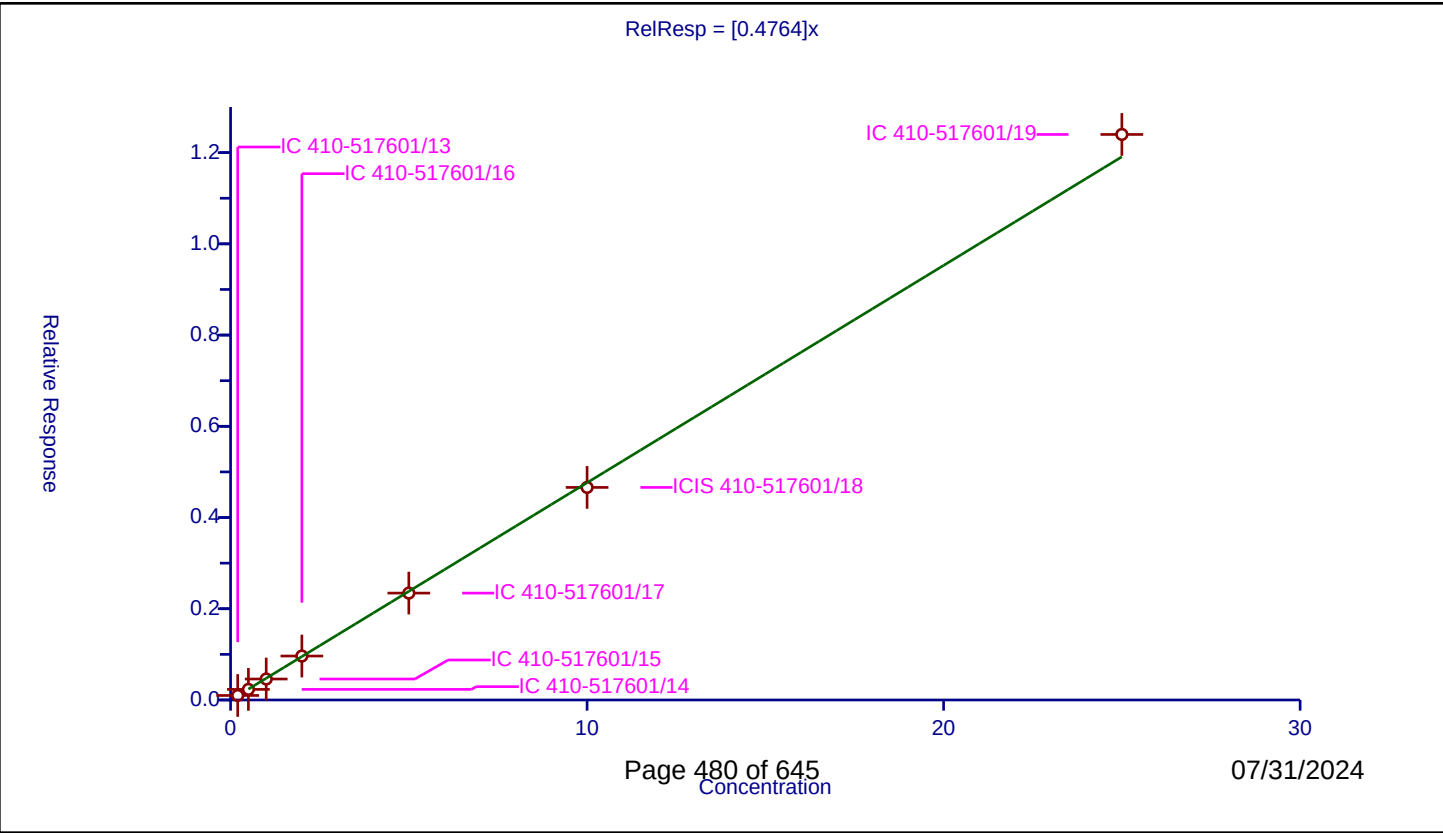
/ Iodomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4764
Error Coefficients	

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.099358	10.0	2259919.0	0.496788	Y
2	IC 410-517601/14	0.5	0.232588	10.0	2249339.0	0.465177	Y
3	IC 410-517601/15	1.0	0.459958	10.0	2225227.0	0.459958	Y
4	IC 410-517601/16	2.0	0.963936	10.0	2217927.0	0.481968	Y
5	IC 410-517601/17	5.0	2.34331	10.0	2250394.0	0.468662	Y
6	ICIS 410-517601/18	10.0	4.660147	10.0	2282400.0	0.466015	Y
7	IC 410-517601/19	25.0	12.398509	10.0	2233108.0	0.49594	Y



Calibration

/ Ethyl bromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

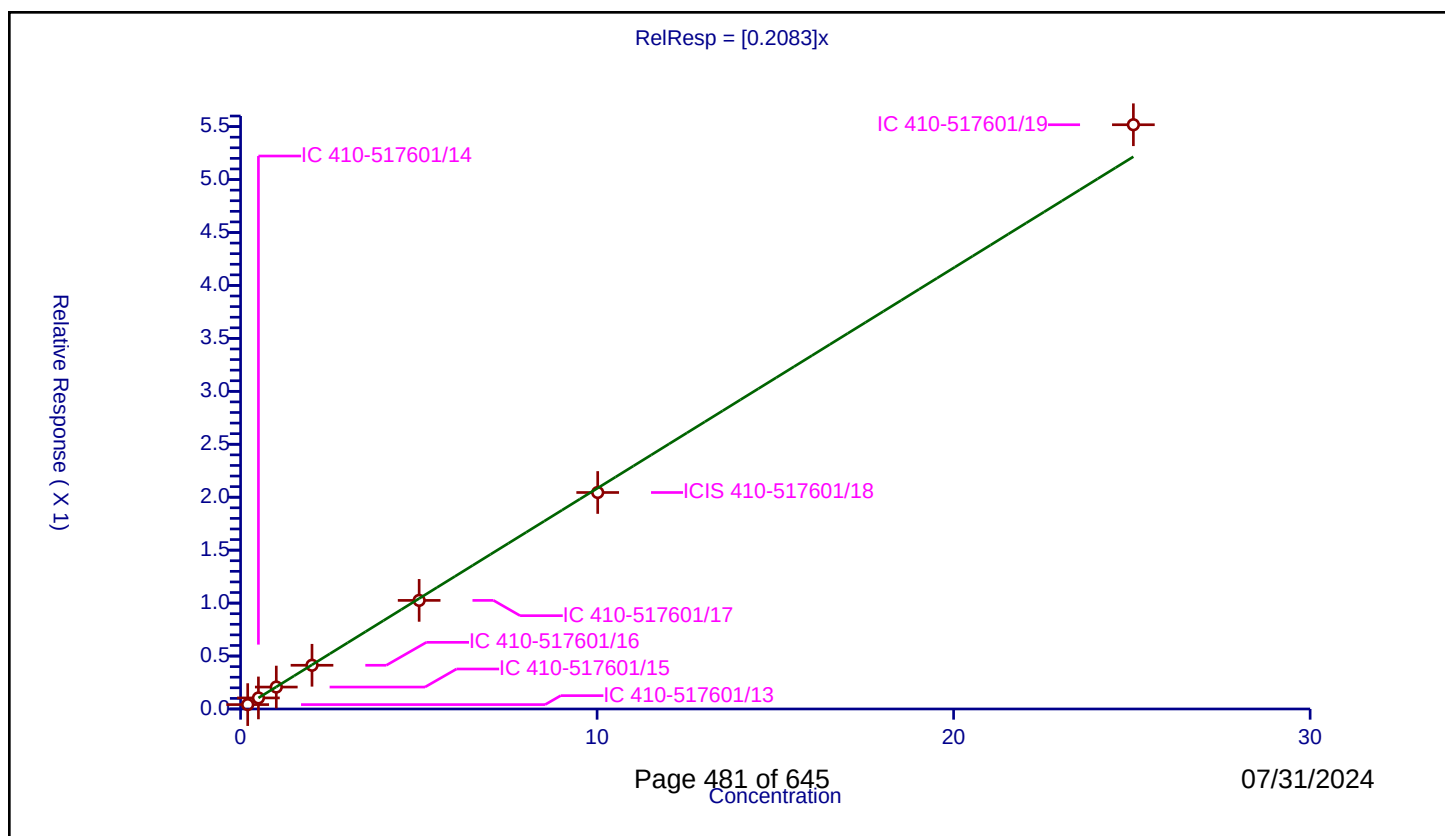
Curve Coefficients

Intercept: 0
Slope: 0.2083

Error Coefficients

Relative Standard Deviation: 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.20034	0.04155	10.0	2259919.0	0.207398	Y
2	IC 410-517601/14	0.50085	0.104422	10.0	2249339.0	0.208489	Y
3	IC 410-517601/15	1.0017	0.207071	10.0	2225227.0	0.20672	Y
4	IC 410-517601/16	2.0034	0.41294	10.0	2217927.0	0.206119	Y
5	IC 410-517601/17	5.0085	1.02554	10.0	2250394.0	0.20476	Y
6	ICIS 410-517601/18	10.017	2.04455	10.0	2282400.0	0.204108	Y
7	IC 410-517601/19	25.0425	5.517763	10.0	2233108.0	0.220336	Y



Calibration

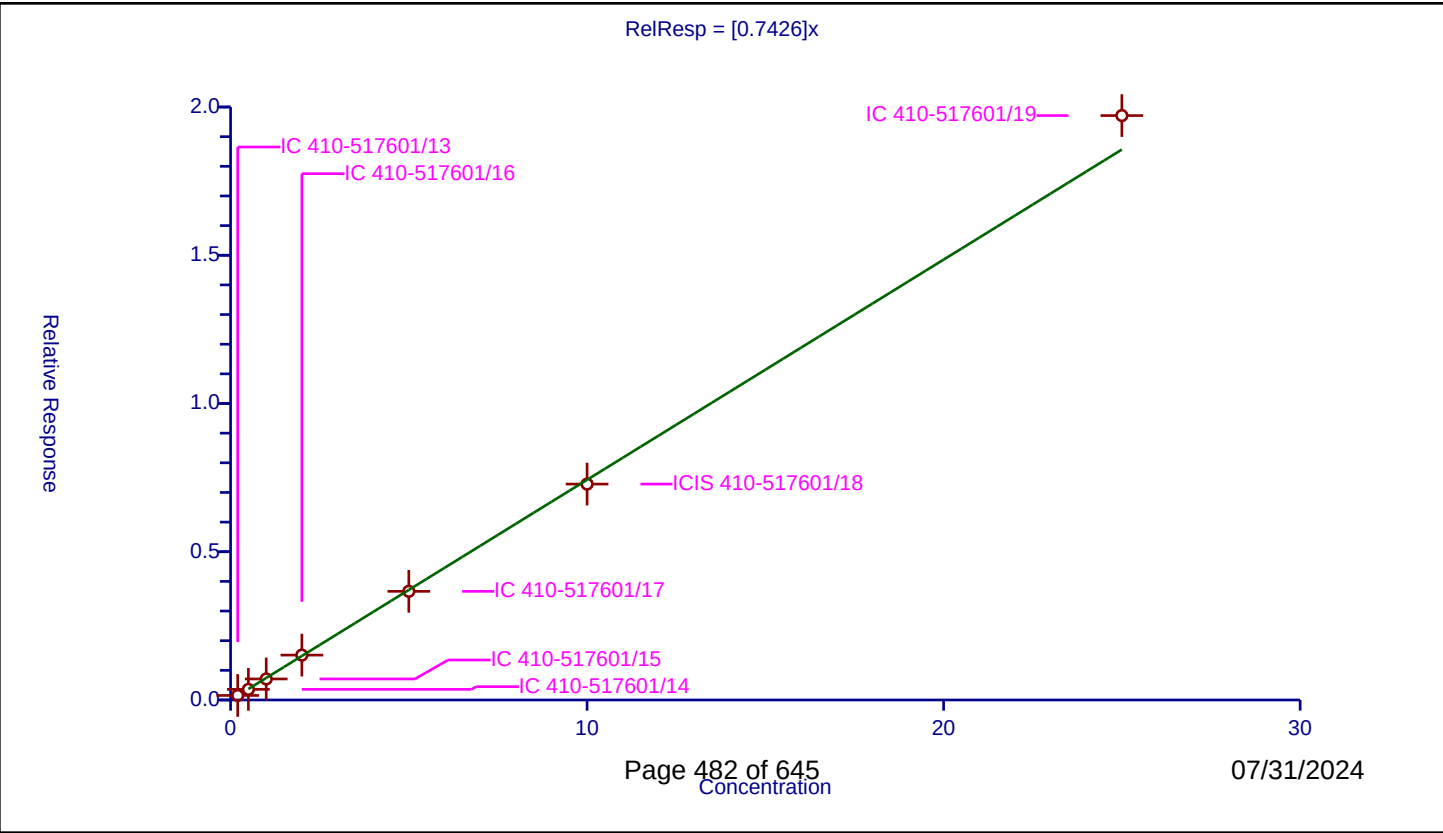
/ Carbon disulfide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7426
Error Coefficients	

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.153293	10.0	2259919.0	0.766466	Y
2	IC 410-517601/14	0.5	0.358047	10.0	2249339.0	0.716095	Y
3	IC 410-517601/15	1.0	0.708948	10.0	2225227.0	0.708948	Y
4	IC 410-517601/16	2.0	1.514306	10.0	2217927.0	0.757153	Y
5	IC 410-517601/17	5.0	3.664643	10.0	2250394.0	0.732929	Y
6	ICIS 410-517601/18	10.0	7.282518	10.0	2282400.0	0.728252	Y
7	IC 410-517601/19	25.0	19.711608	10.0	2233108.0	0.788464	Y



Calibration

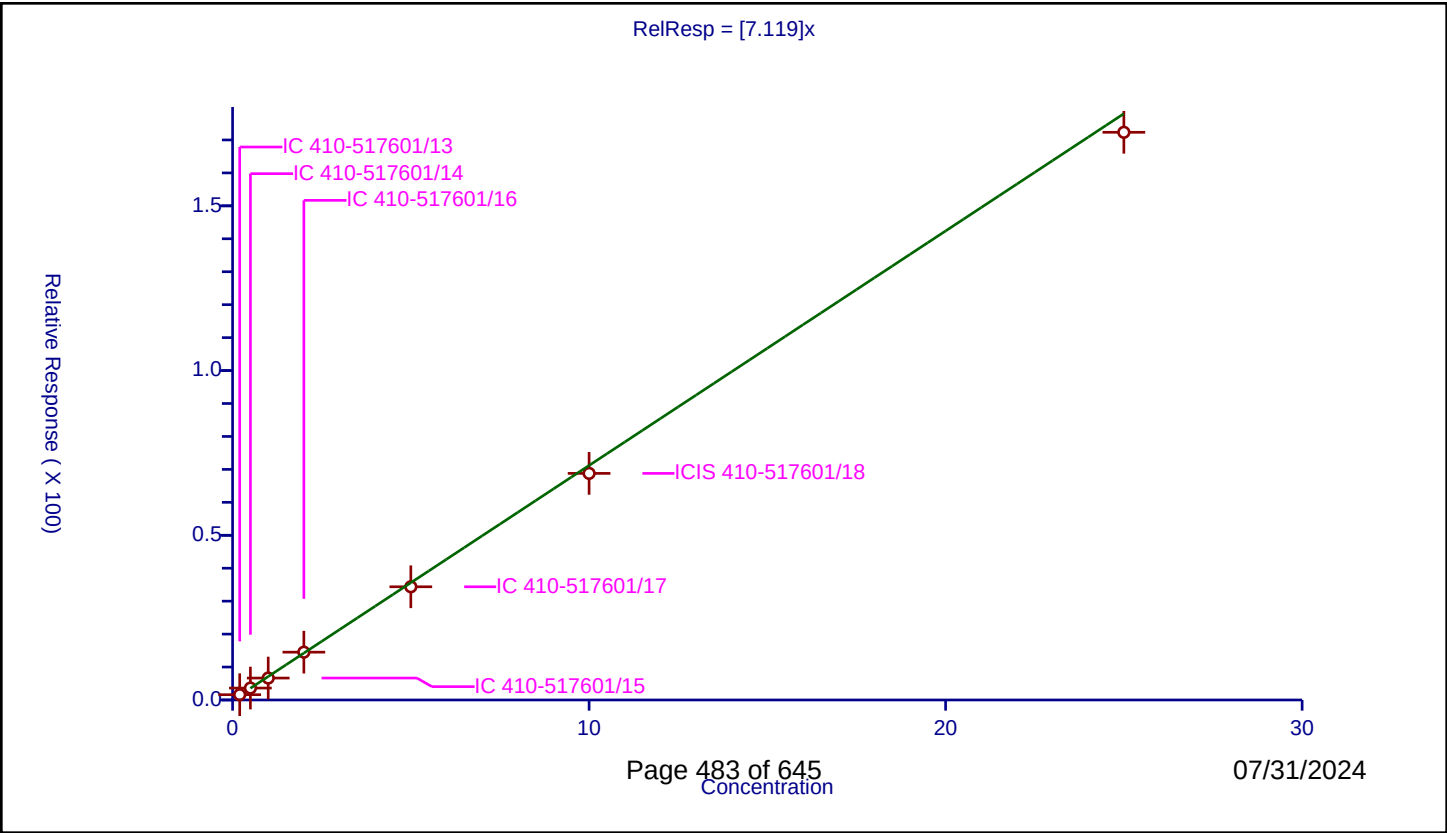
/ Methyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	7.119
Error Coefficients	

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	1.60343	50.0	173659.0	8.017149	Y
2	IC 410-517601/14	0.5	3.624311	50.0	188422.0	7.248623	Y
3	IC 410-517601/15	1.0	6.661722	50.0	167862.0	6.661722	Y
4	IC 410-517601/16	2.0	14.52033	50.0	164311.0	7.260165	Y
5	IC 410-517601/17	5.0	34.366633	50.0	180780.0	6.873327	Y
6	ICIS 410-517601/18	10.0	68.785738	50.0	188699.0	6.878574	Y
7	IC 410-517601/19	25.0	172.325752	50.0	188137.0	6.89303	Y

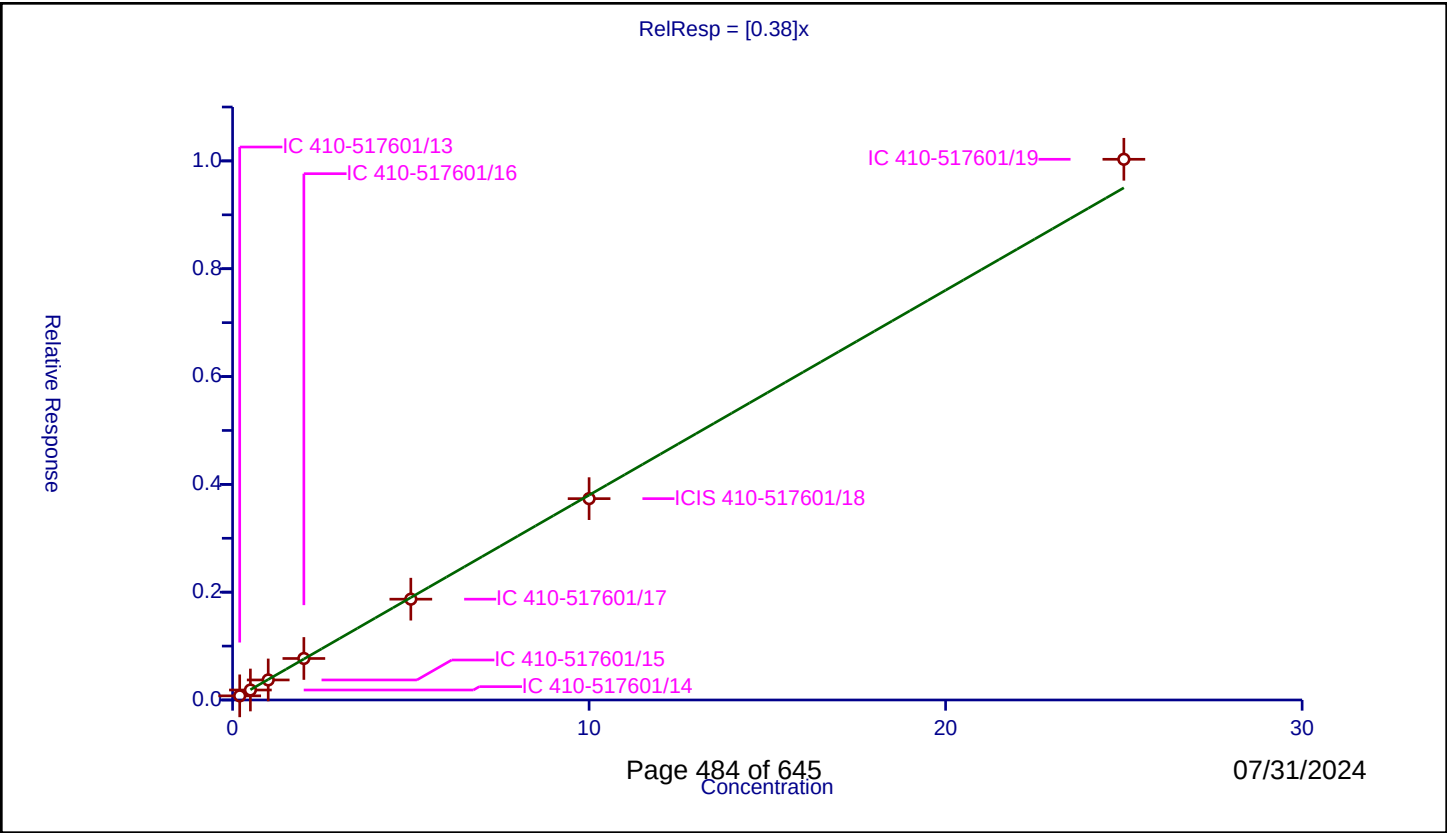


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.38

Error Coefficients	
Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.076826	10.0	2259919.0	0.384129	Y
2	IC 410-517601/14	0.5	0.185277	10.0	2249339.0	0.370553	Y
3	IC 410-517601/15	1.0	0.371935	10.0	2225227.0	0.371935	Y
4	IC 410-517601/16	2.0	0.769804	10.0	2217927.0	0.384902	Y
5	IC 410-517601/17	5.0	1.870206	10.0	2250394.0	0.374041	Y
6	ICIS 410-517601/18	10.0	3.735287	10.0	2282400.0	0.373529	Y
7	IC 410-517601/19	25.0	10.030433	10.0	2233108.0	0.401217	Y



Calibration

/ Methylene Chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

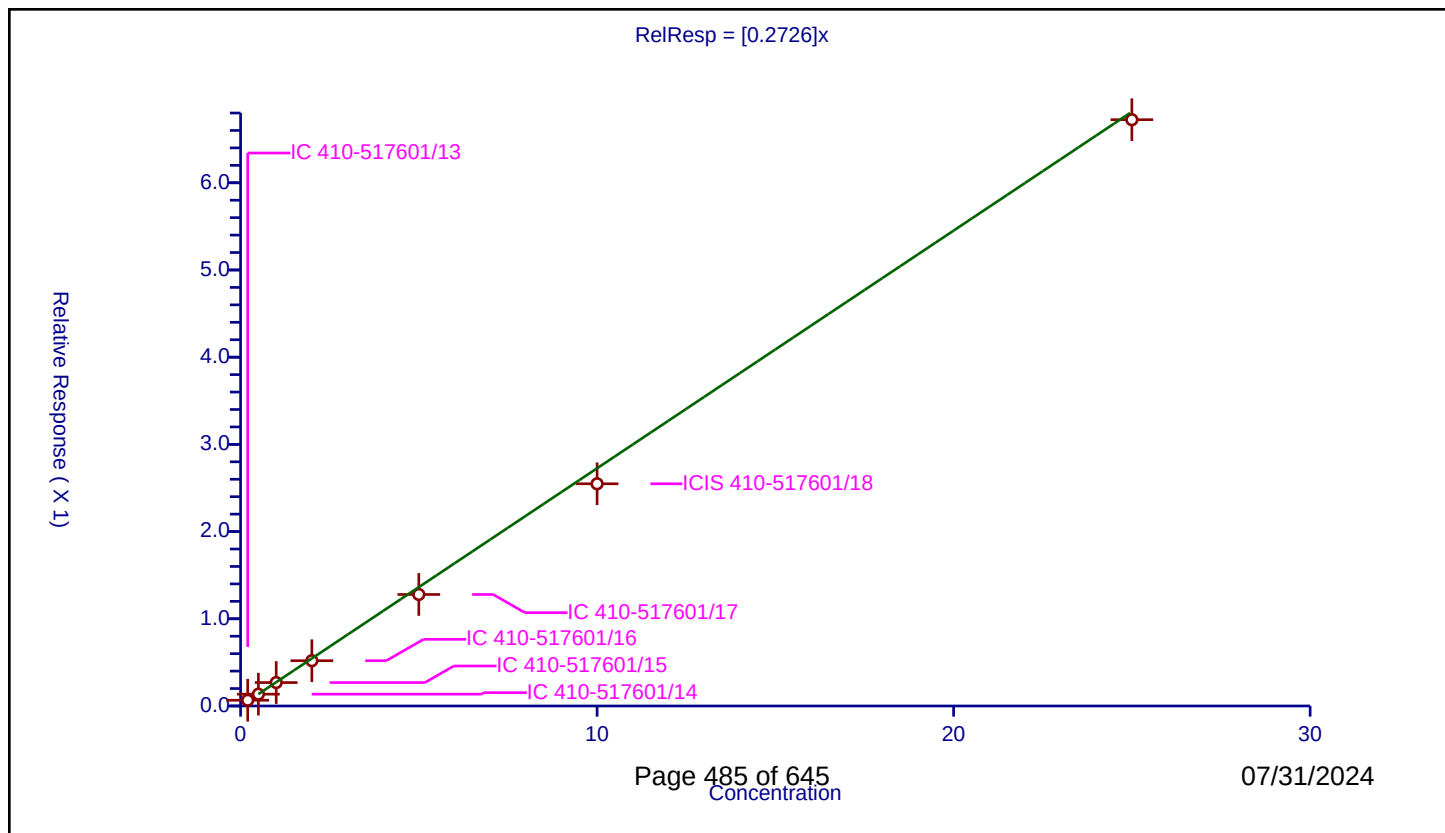
Curve Coefficients

Intercept: 0
 Slope: 0.2726

Error Coefficients

Relative Standard Deviation: 9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.065852	10.0	2259919.0	0.32926	Y
2	IC 410-517601/14	0.5	0.135546	10.0	2249339.0	0.271093	Y
3	IC 410-517601/15	1.0	0.268669	10.0	2225227.0	0.268669	Y
4	IC 410-517601/16	2.0	0.519061	10.0	2217927.0	0.259531	Y
5	IC 410-517601/17	5.0	1.278763	10.0	2250394.0	0.255753	Y
6	ICIS 410-517601/18	10.0	2.548042	10.0	2282400.0	0.254804	Y
7	IC 410-517601/19	25.0	6.723177	10.0	2233108.0	0.268927	Y



Calibration

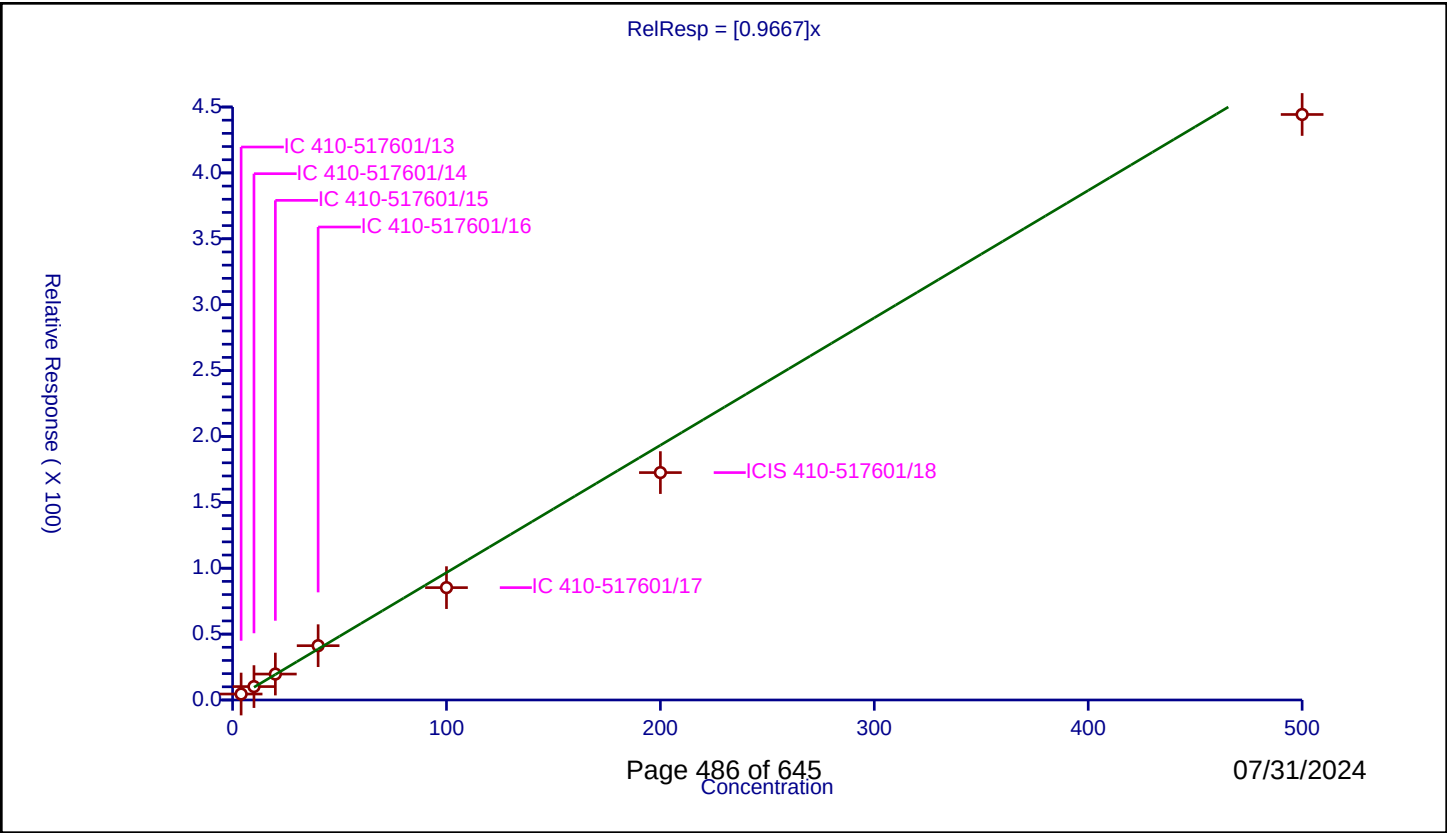
/ 2-Methyl-2-propanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9667
Error Coefficients	

Relative Standard Deviation: 10.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	4.0	4.529279	50.0	173659.0	1.13232	Y
2	IC 410-517601/14	10.0	10.159111	50.0	188422.0	1.015911	Y
3	IC 410-517601/15	20.0	19.678069	50.0	167862.0	0.983903	Y
4	IC 410-517601/16	40.0	41.219395	50.0	164311.0	1.030485	Y
5	IC 410-517601/17	100.0	85.272154	50.0	180780.0	0.852722	Y
6	ICIS 410-517601/18	200.0	172.570337	50.0	188699.0	0.862852	Y
7	IC 410-517601/19	500.0	444.337903	50.0	188137.0	0.888676	Y



Calibration

/ Acrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

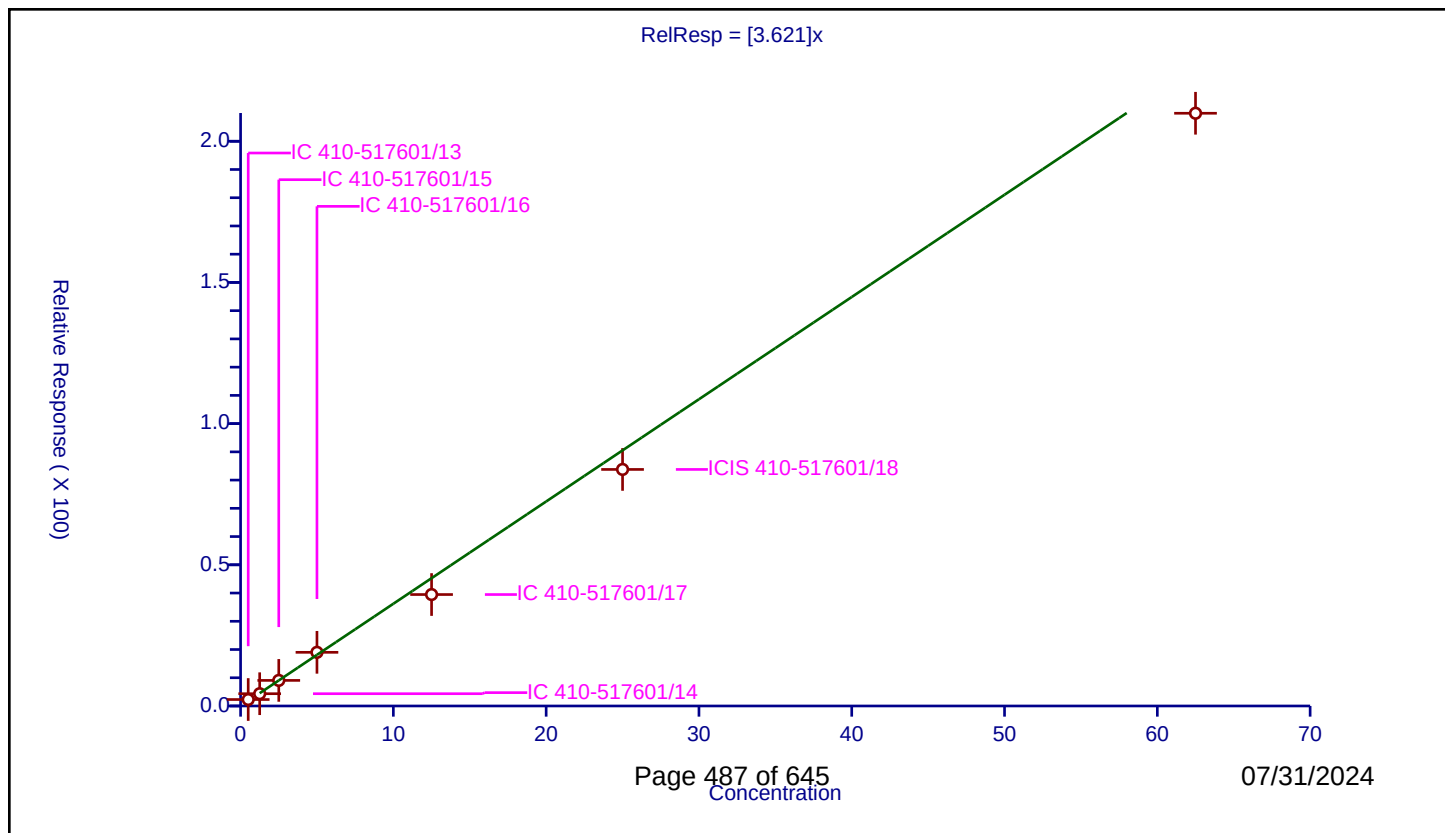
Curve Coefficients

Intercept: 0
Slope: 3.621

Error Coefficients

Relative Standard Deviation: 12.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.5	2.287241	50.0	173659.0	4.574482	Y
2	IC 410-517601/14	1.25	4.350872	50.0	188422.0	3.480698	Y
3	IC 410-517601/15	2.5	9.058929	50.0	167862.0	3.623572	Y
4	IC 410-517601/16	5.0	19.00877	50.0	164311.0	3.801754	Y
5	IC 410-517601/17	12.5	39.466202	50.0	180780.0	3.157296	Y
6	ICIS 410-517601/18	25.0	83.769124	50.0	188699.0	3.350765	Y
7	IC 410-517601/19	62.5	209.910597	50.0	188137.0	3.35857	Y



Calibration

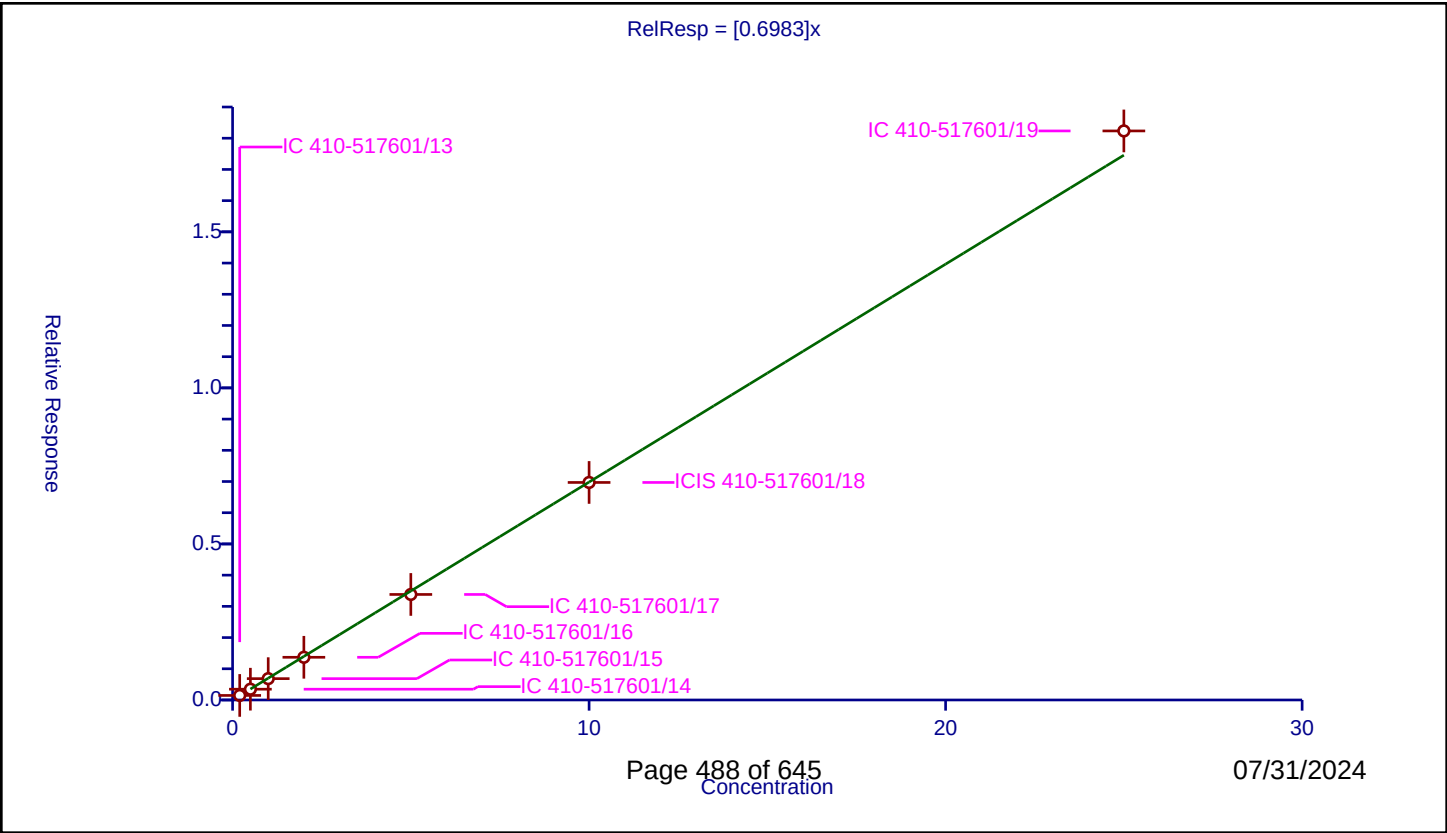
/ Methyl tert-butyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6983
Error Coefficients	

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.145302	10.0	2259919.0	0.726508	Y
2	IC 410-517601/14	0.5	0.345217	10.0	2249339.0	0.690434	Y
3	IC 410-517601/15	1.0	0.683939	10.0	2225227.0	0.683939	Y
4	IC 410-517601/16	2.0	1.368692	10.0	2217927.0	0.684346	Y
5	IC 410-517601/17	5.0	3.381652	10.0	2250394.0	0.67633	Y
6	ICIS 410-517601/18	10.0	6.970053	10.0	2282400.0	0.697005	Y
7	IC 410-517601/19	25.0	18.233713	10.0	2233108.0	0.729349	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

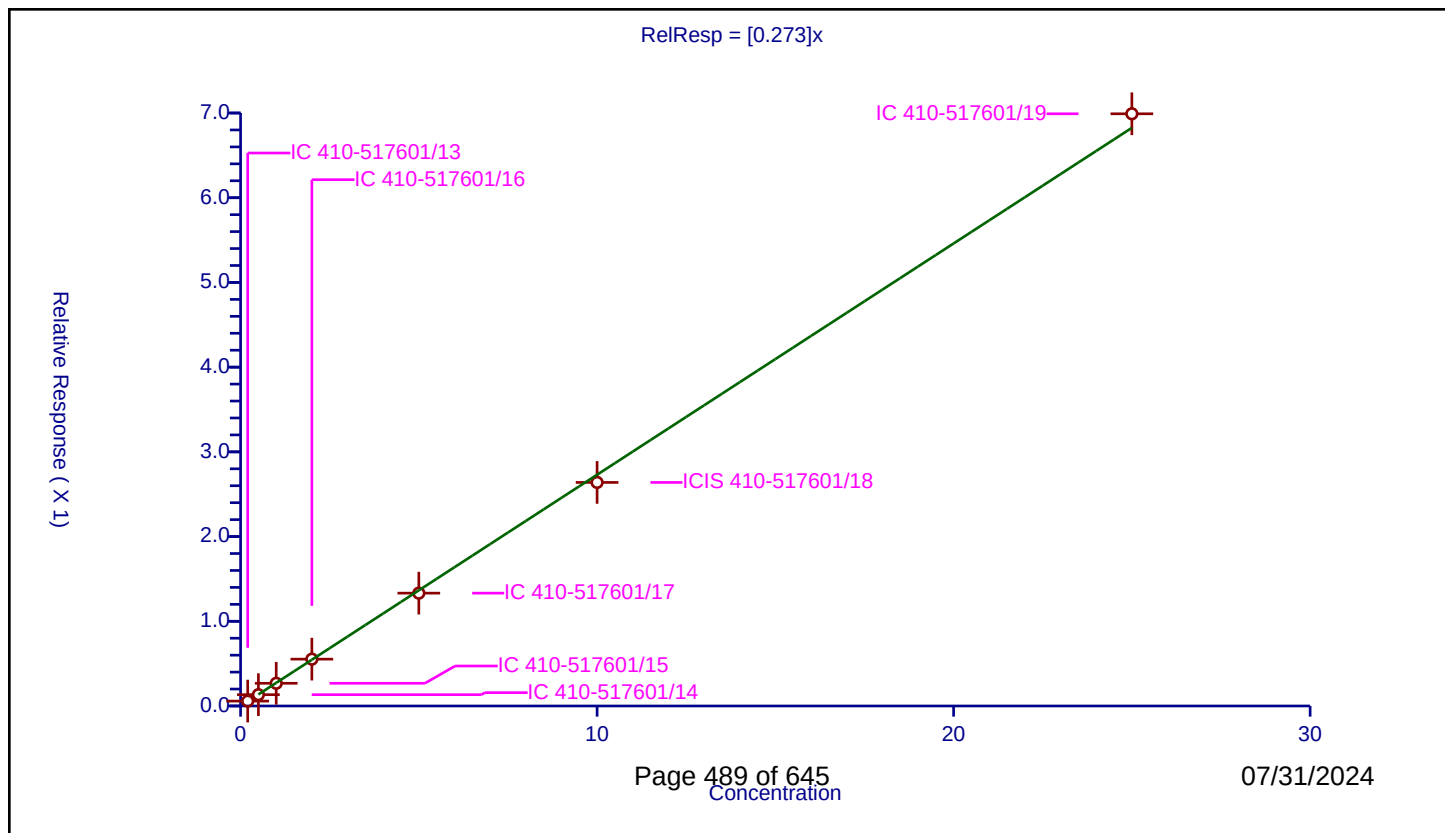
Curve Coefficients

Intercept: 0
Slope: 0.273

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.057883	10.0	2259919.0	0.289413	Y
2	IC 410-517601/14	0.5	0.133639	10.0	2249339.0	0.267279	Y
3	IC 410-517601/15	1.0	0.267905	10.0	2225227.0	0.267905	Y
4	IC 410-517601/16	2.0	0.552908	10.0	2217927.0	0.276454	Y
5	IC 410-517601/17	5.0	1.332042	10.0	2250394.0	0.266408	Y
6	ICIS 410-517601/18	10.0	2.639042	10.0	2282400.0	0.263904	Y
7	IC 410-517601/19	25.0	6.990889	10.0	2233108.0	0.279636	Y



Calibration

/ Hexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

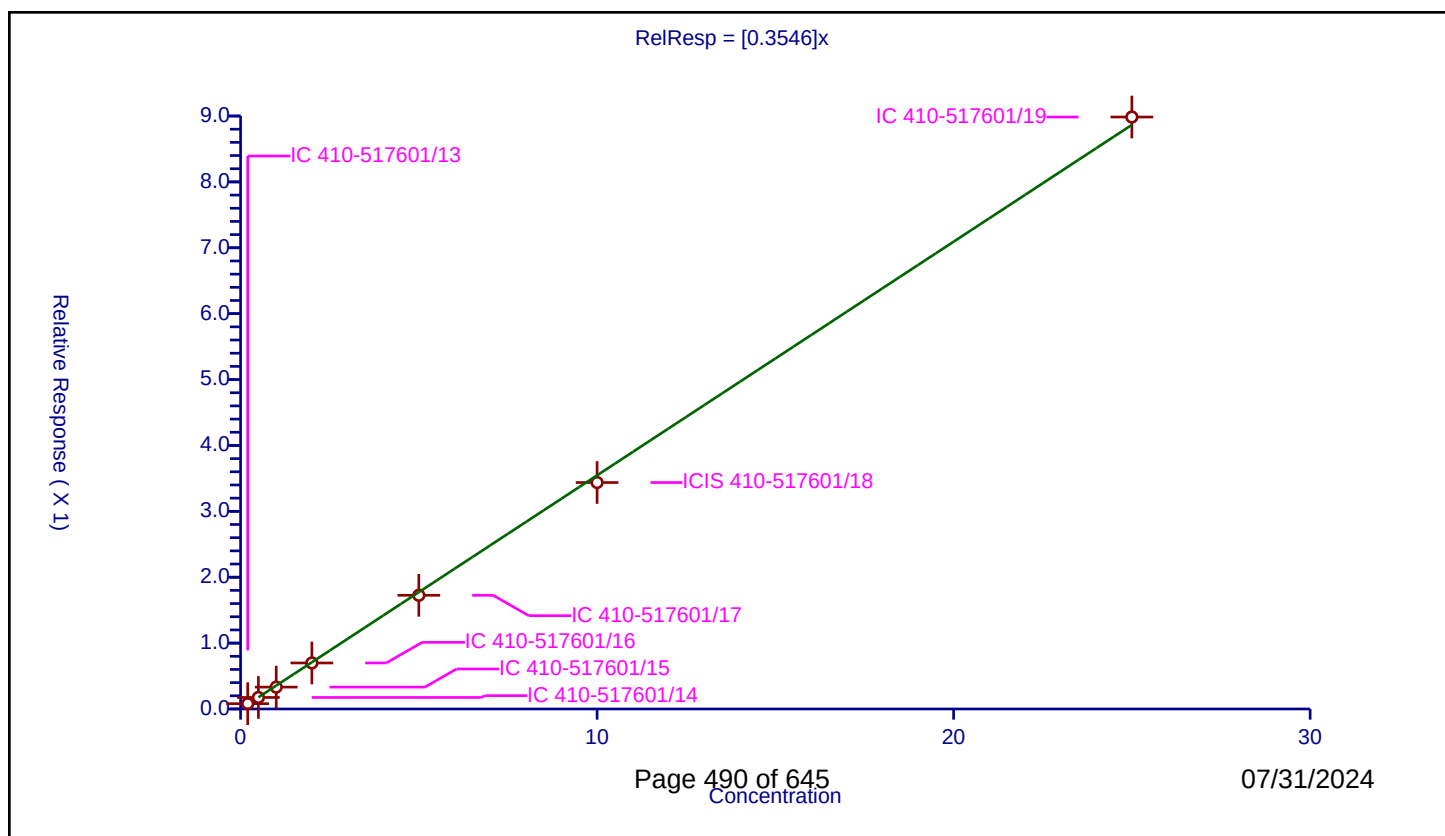
Curve Coefficients

Intercept: 0
Slope: 0.3546

Error Coefficients

Relative Standard Deviation: 6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.080591	10.0	2259919.0	0.402957	Y
2	IC 410-517601/14	0.5	0.174882	10.0	2249339.0	0.349765	Y
3	IC 410-517601/15	1.0	0.332195	10.0	2225227.0	0.332195	Y
4	IC 410-517601/16	2.0	0.698508	10.0	2217927.0	0.349254	Y
5	IC 410-517601/17	5.0	1.725489	10.0	2250394.0	0.345098	Y
6	ICIS 410-517601/18	10.0	3.437136	10.0	2282400.0	0.343714	Y
7	IC 410-517601/19	25.0	8.98481	10.0	2233108.0	0.359392	Y

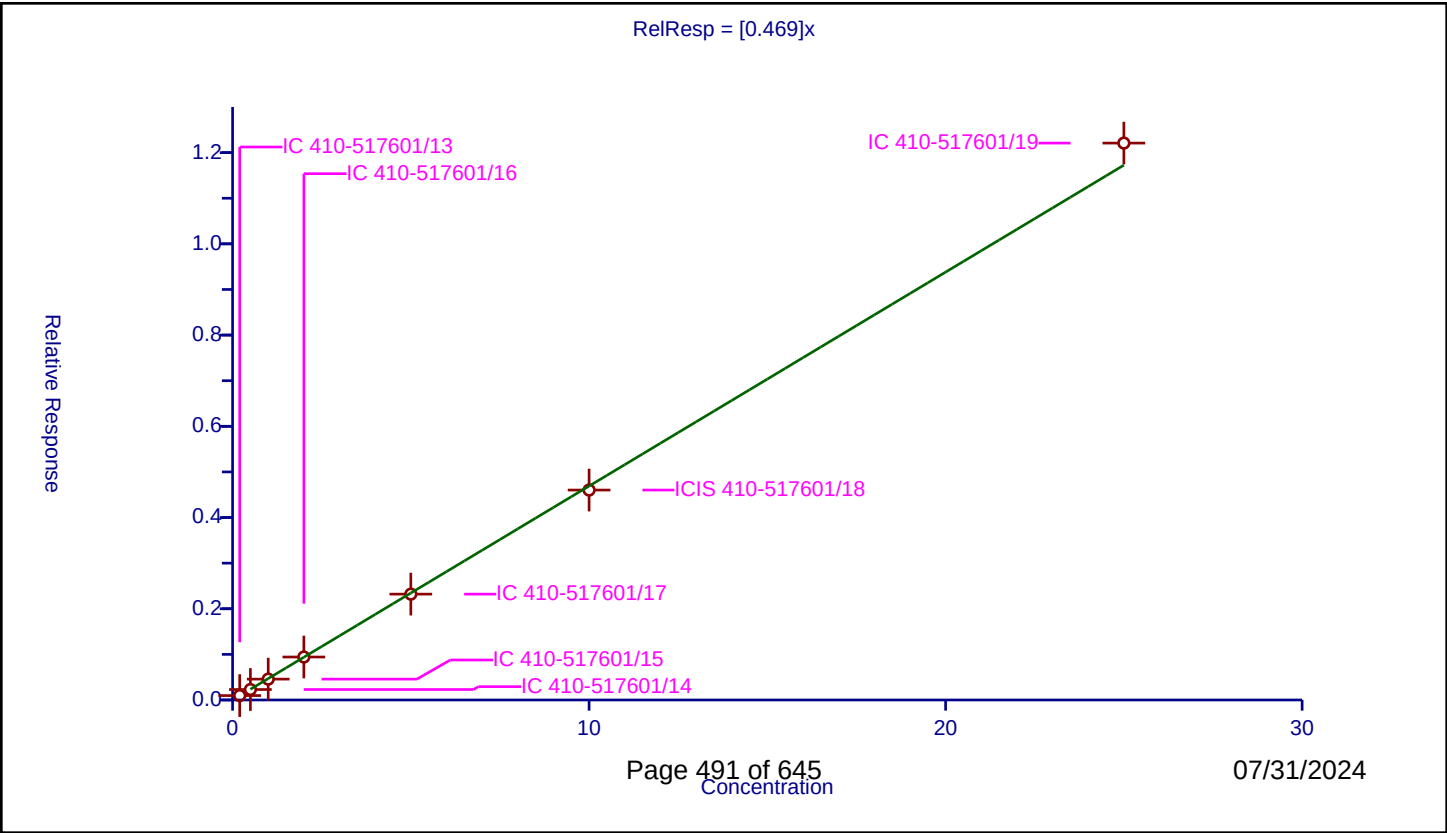


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.469

Error Coefficients	
Relative Standard Deviation:	2.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.096601	10.0	2259919.0	0.483004	Y
2	IC 410-517601/14	0.5	0.229459	10.0	2249339.0	0.458917	Y
3	IC 410-517601/15	1.0	0.457481	10.0	2225227.0	0.457481	Y
4	IC 410-517601/16	2.0	0.941947	10.0	2217927.0	0.470974	Y
5	IC 410-517601/17	5.0	2.320674	10.0	2250394.0	0.464135	Y
6	ICIS 410-517601/18	10.0	4.602305	10.0	2282400.0	0.46023	Y
7	IC 410-517601/19	25.0	12.209083	10.0	2233108.0	0.488363	Y



Calibration

/ Isopropyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

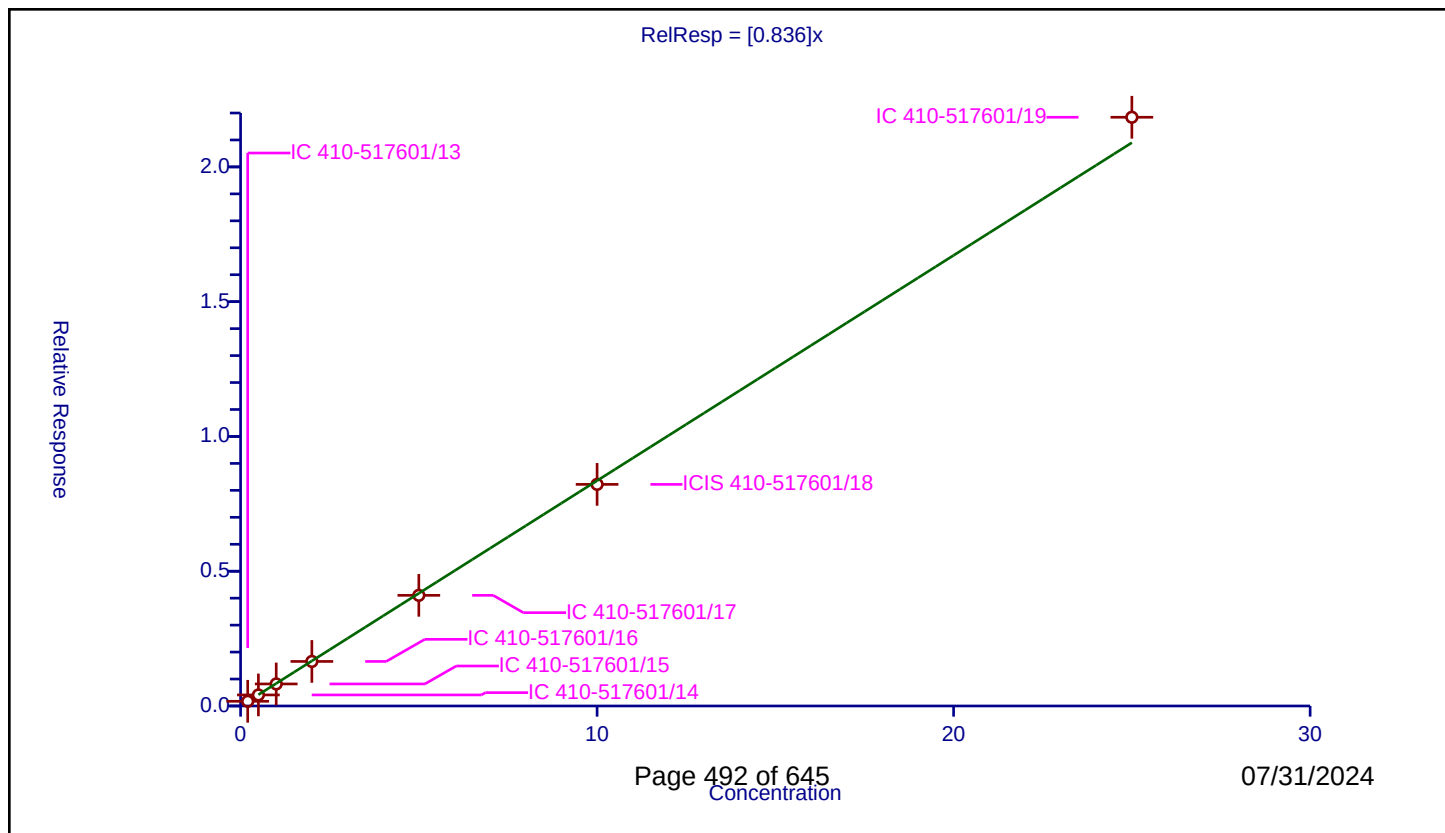
Curve Coefficients

Intercept: 0
Slope: 0.836

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.174148	10.0	2259919.0	0.870739	Y
2	IC 410-517601/14	0.5	0.409974	10.0	2249339.0	0.819948	Y
3	IC 410-517601/15	1.0	0.817723	10.0	2225227.0	0.817723	Y
4	IC 410-517601/16	2.0	1.652516	10.0	2217927.0	0.826258	Y
5	IC 410-517601/17	5.0	4.105437	10.0	2250394.0	0.821087	Y
6	ICIS 410-517601/18	10.0	8.222341	10.0	2282400.0	0.822234	Y
7	IC 410-517601/19	25.0	21.842302	10.0	2233108.0	0.873692	Y



Calibration

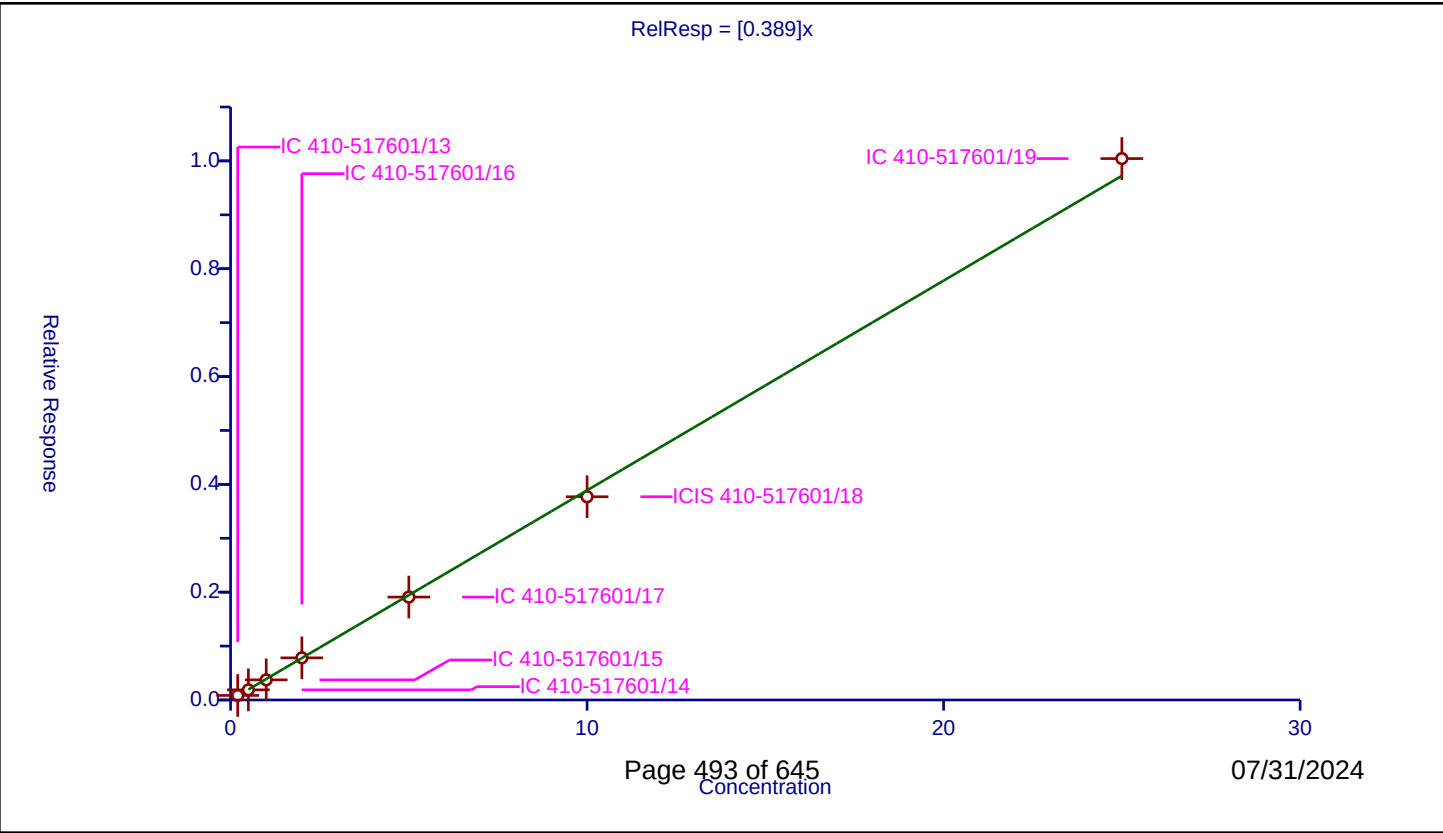
/ 2-Chloro-1,3-butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.389
Error Coefficients	

Relative Standard Deviation: 4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.084246	10.0	2259919.0	0.421232	Y
2	IC 410-517601/14	0.5	0.1883	10.0	2249339.0	0.3766	Y
3	IC 410-517601/15	1.0	0.373499	10.0	2225227.0	0.373499	Y
4	IC 410-517601/16	2.0	0.781626	10.0	2217927.0	0.390813	Y
5	IC 410-517601/17	5.0	1.90923	10.0	2250394.0	0.381846	Y
6	ICIS 410-517601/18	10.0	3.770316	10.0	2282400.0	0.377032	Y
7	IC 410-517601/19	25.0	10.043101	10.0	2233108.0	0.401724	Y



Calibration

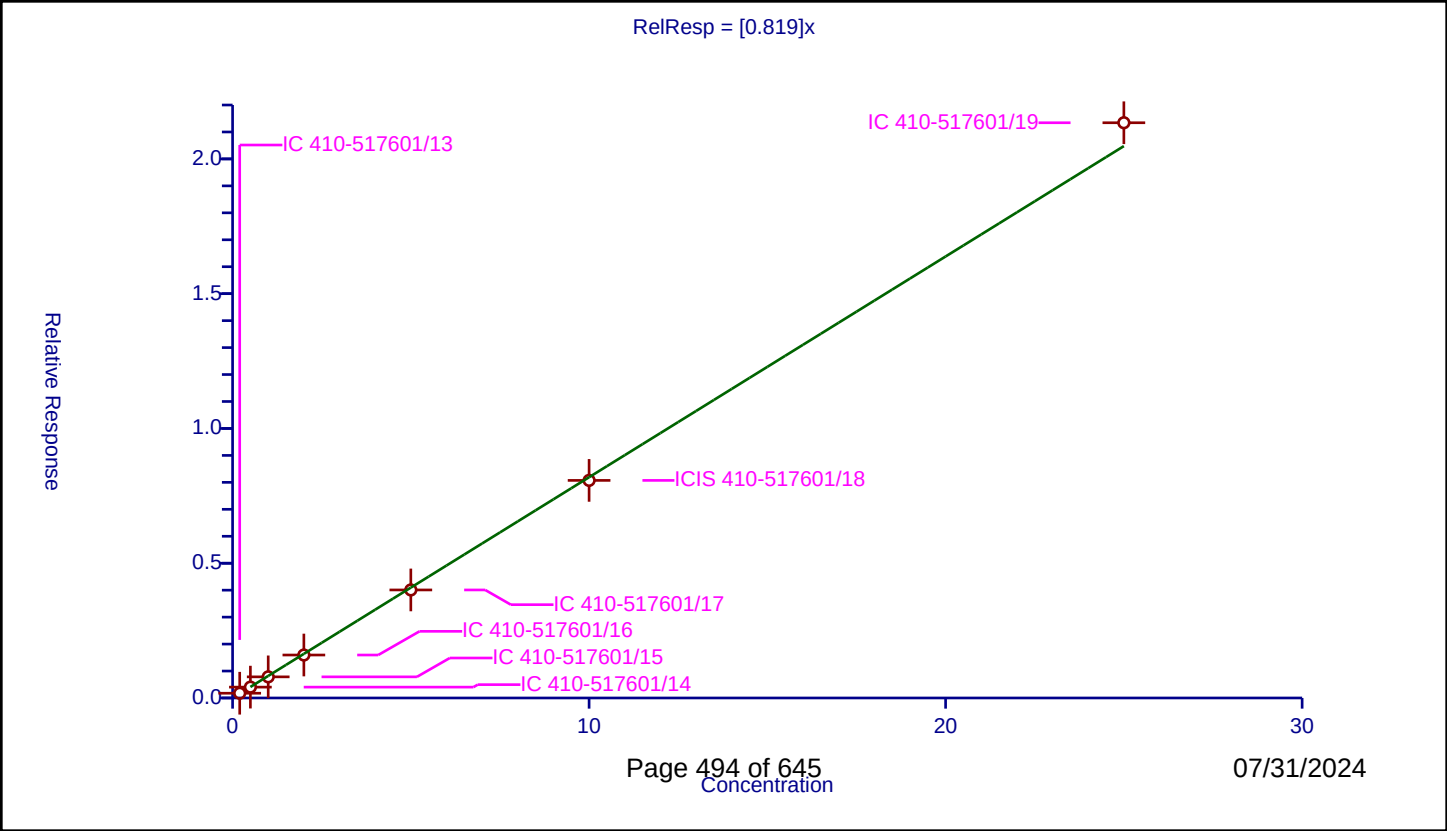
/ Tert-butyl ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.819

Error Coefficients	
Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.176643	10.0	2259919.0	0.883217	Y
2	IC 410-517601/14	0.5	0.402732	10.0	2249339.0	0.805463	Y
3	IC 410-517601/15	1.0	0.784459	10.0	2225227.0	0.784459	Y
4	IC 410-517601/16	2.0	1.594318	10.0	2217927.0	0.797159	Y
5	IC 410-517601/17	5.0	4.008747	10.0	2250394.0	0.801749	Y
6	ICIS 410-517601/18	10.0	8.072985	10.0	2282400.0	0.807298	Y
7	IC 410-517601/19	25.0	21.342143	10.0	2233108.0	0.853686	Y



Calibration

/ 2-Butanone (MEK)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

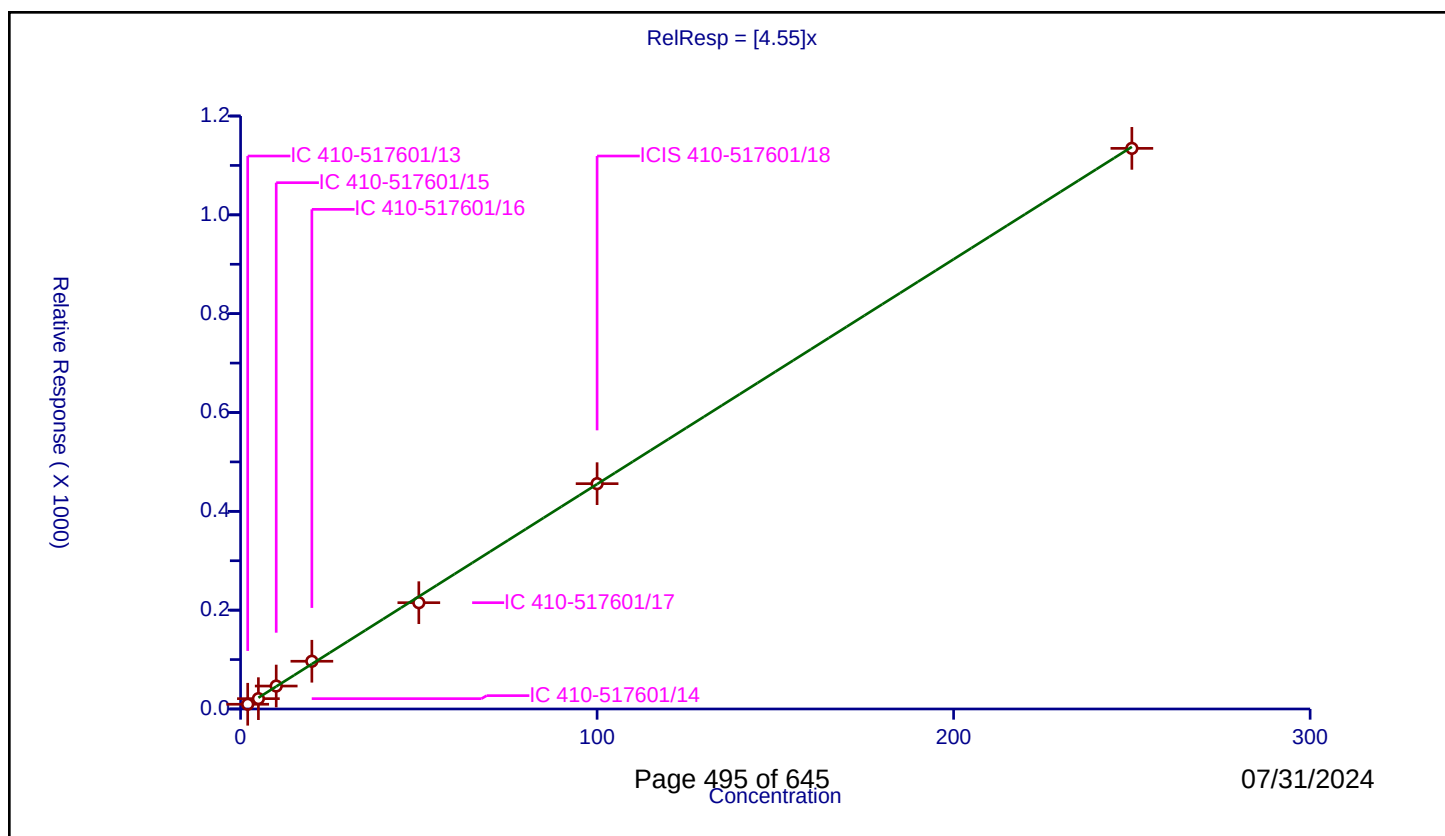
Curve Coefficients

Intercept: 0
Slope: 4.55

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	2.0	9.59121	50.0	173659.0	4.795605	Y
2	IC 410-517601/14	5.0	20.919532	50.0	188422.0	4.183906	Y
3	IC 410-517601/15	10.0	46.416402	50.0	167862.0	4.64164	Y
4	IC 410-517601/16	20.0	96.628345	50.0	164311.0	4.831417	Y
5	IC 410-517601/17	50.0	215.143821	50.0	180780.0	4.302876	Y
6	ICIS 410-517601/18	100.0	455.977774	50.0	188699.0	4.559778	Y
7	IC 410-517601/19	250.0	1134.539724	50.0	188137.0	4.538159	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

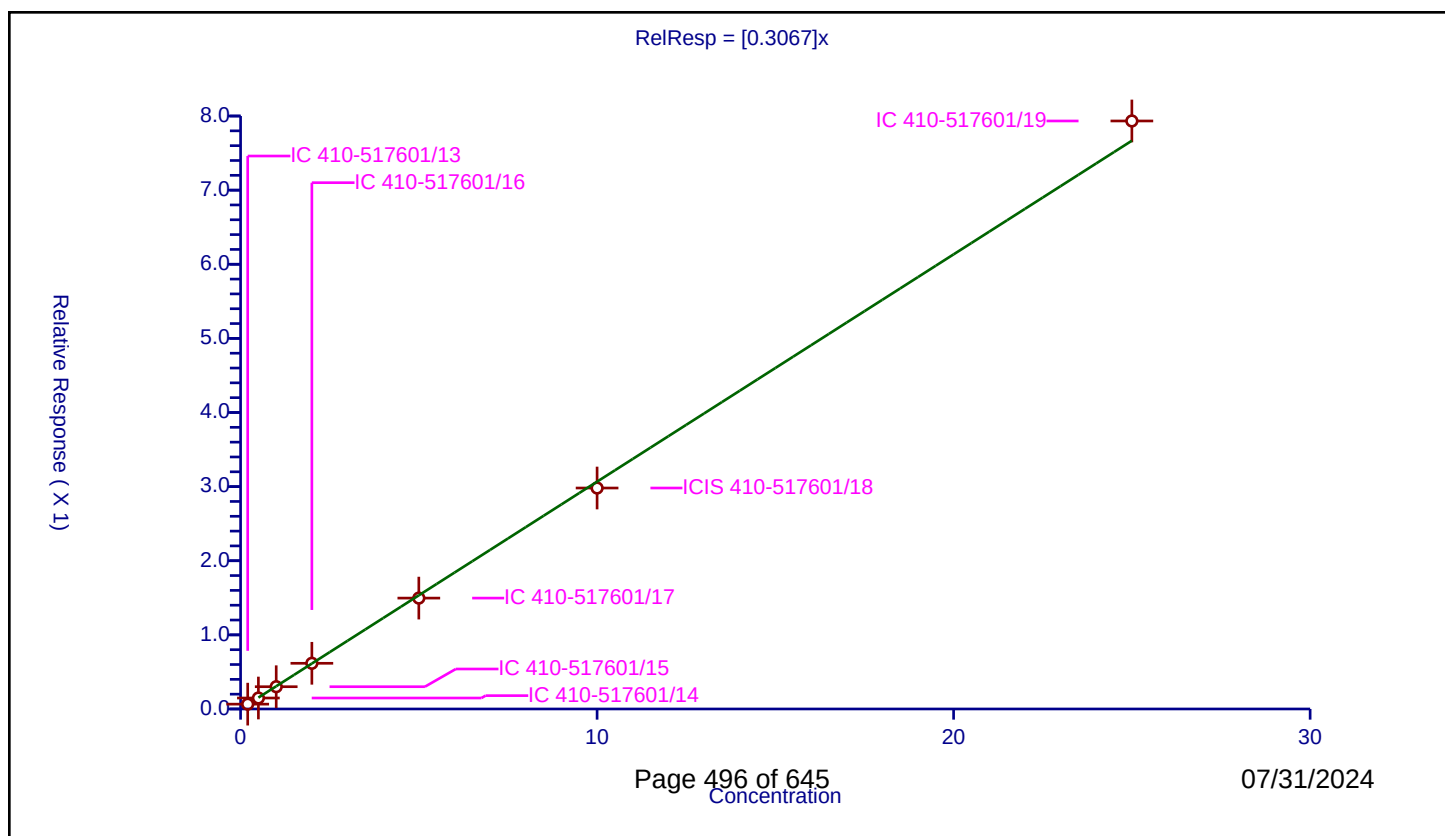
Curve Coefficients

Intercept: 0
Slope: 0.3067

Error Coefficients

Relative Standard Deviation: 3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.065409	10.0	2259919.0	0.327047	Y
2	IC 410-517601/14	0.5	0.14807	10.0	2249339.0	0.29614	Y
3	IC 410-517601/15	1.0	0.300558	10.0	2225227.0	0.300558	Y
4	IC 410-517601/16	2.0	0.616562	10.0	2217927.0	0.308281	Y
5	IC 410-517601/17	5.0	1.496249	10.0	2250394.0	0.29925	Y
6	ICIS 410-517601/18	10.0	2.981147	10.0	2282400.0	0.298115	Y
7	IC 410-517601/19	25.0	7.933235	10.0	2233108.0	0.317329	Y



Calibration

/ 2,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

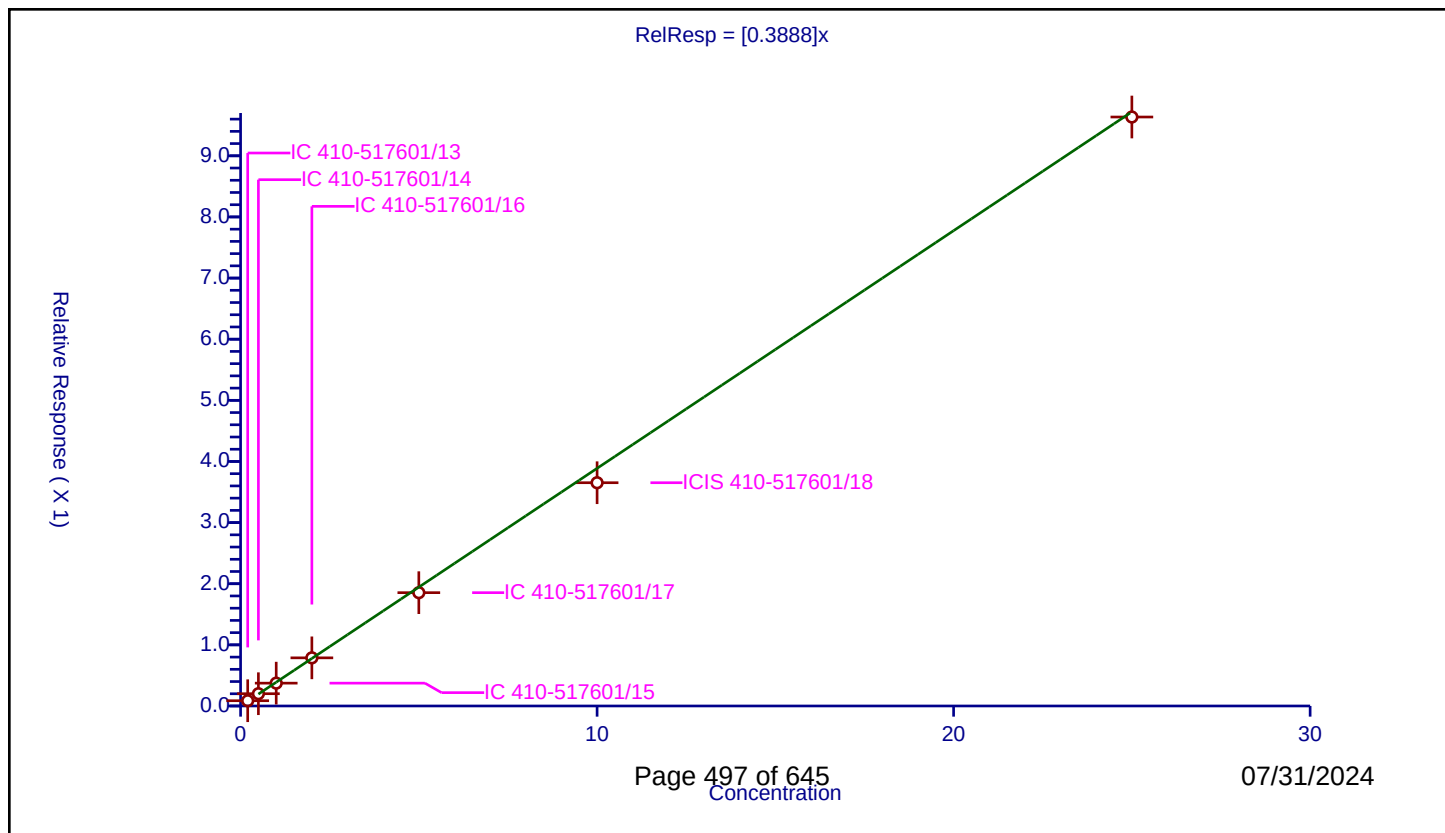
Curve Coefficients

Intercept: 0
 Slope: 0.3888

Error Coefficients

Relative Standard Deviation: 5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.086096	10.0	2259919.0	0.43048	Y
2	IC 410-517601/14	0.5	0.200975	10.0	2249339.0	0.401949	Y
3	IC 410-517601/15	1.0	0.373805	10.0	2225227.0	0.373805	Y
4	IC 410-517601/16	2.0	0.787497	10.0	2217927.0	0.393748	Y
5	IC 410-517601/17	5.0	1.853742	10.0	2250394.0	0.370748	Y
6	ICIS 410-517601/18	10.0	3.652173	10.0	2282400.0	0.365217	Y
7	IC 410-517601/19	25.0	9.634666	10.0	2233108.0	0.385387	Y

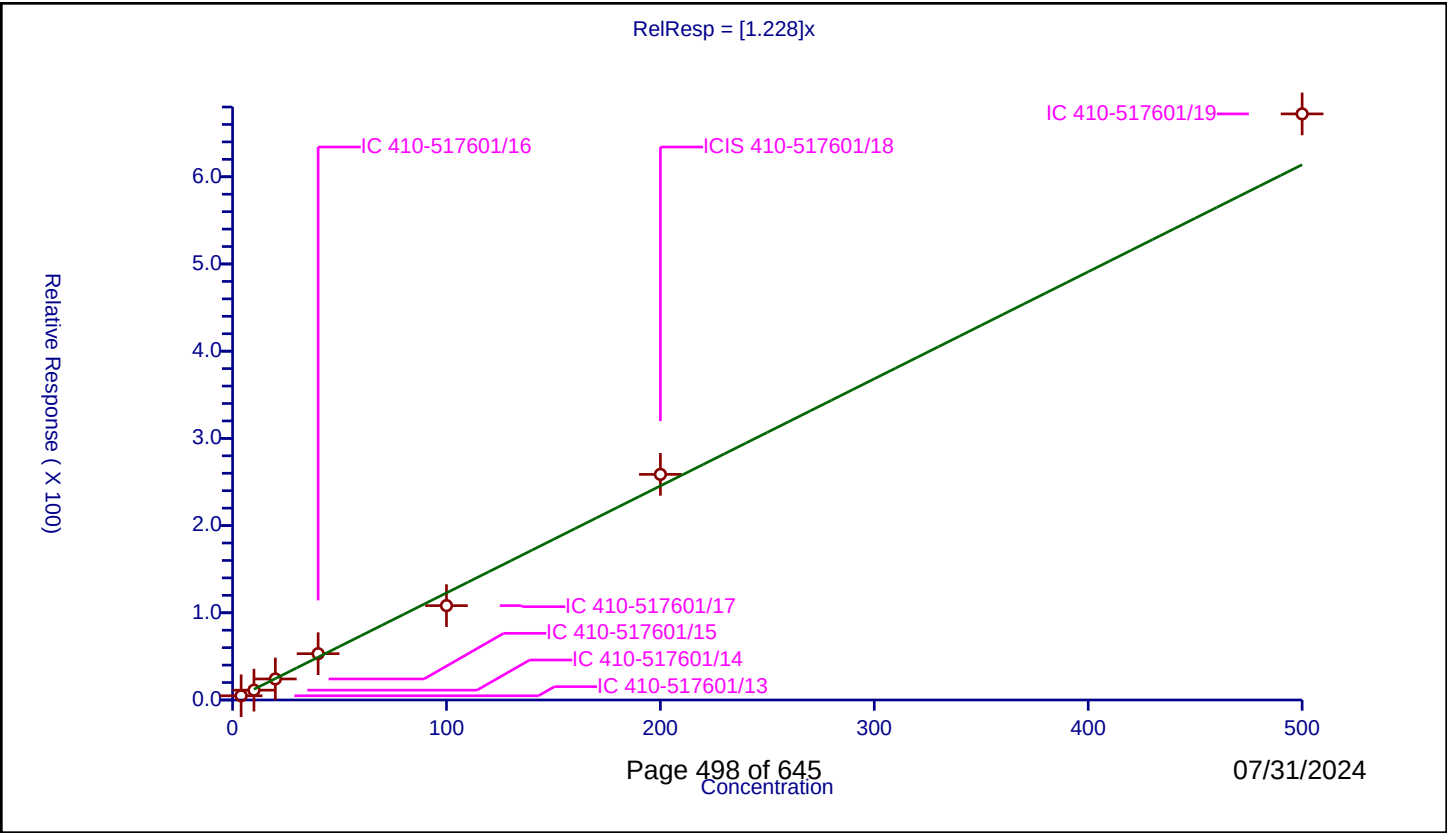


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.228

Error Coefficients	
Relative Standard Deviation:	
	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	4.0	4.858084	50.0	173659.0	1.214521	Y
2	IC 410-517601/14	10.0	11.256382	50.0	188422.0	1.125638	Y
3	IC 410-517601/15	20.0	24.127259	50.0	167862.0	1.206363	Y
4	IC 410-517601/16	40.0	53.090177	50.0	164311.0	1.327254	Y
5	IC 410-517601/17	100.0	108.209702	50.0	180780.0	1.082097	Y
6	ICIS 410-517601/18	200.0	258.728981	50.0	188699.0	1.293645	Y
7	IC 410-517601/19	500.0	672.124303	50.0	188137.0	1.344249	Y

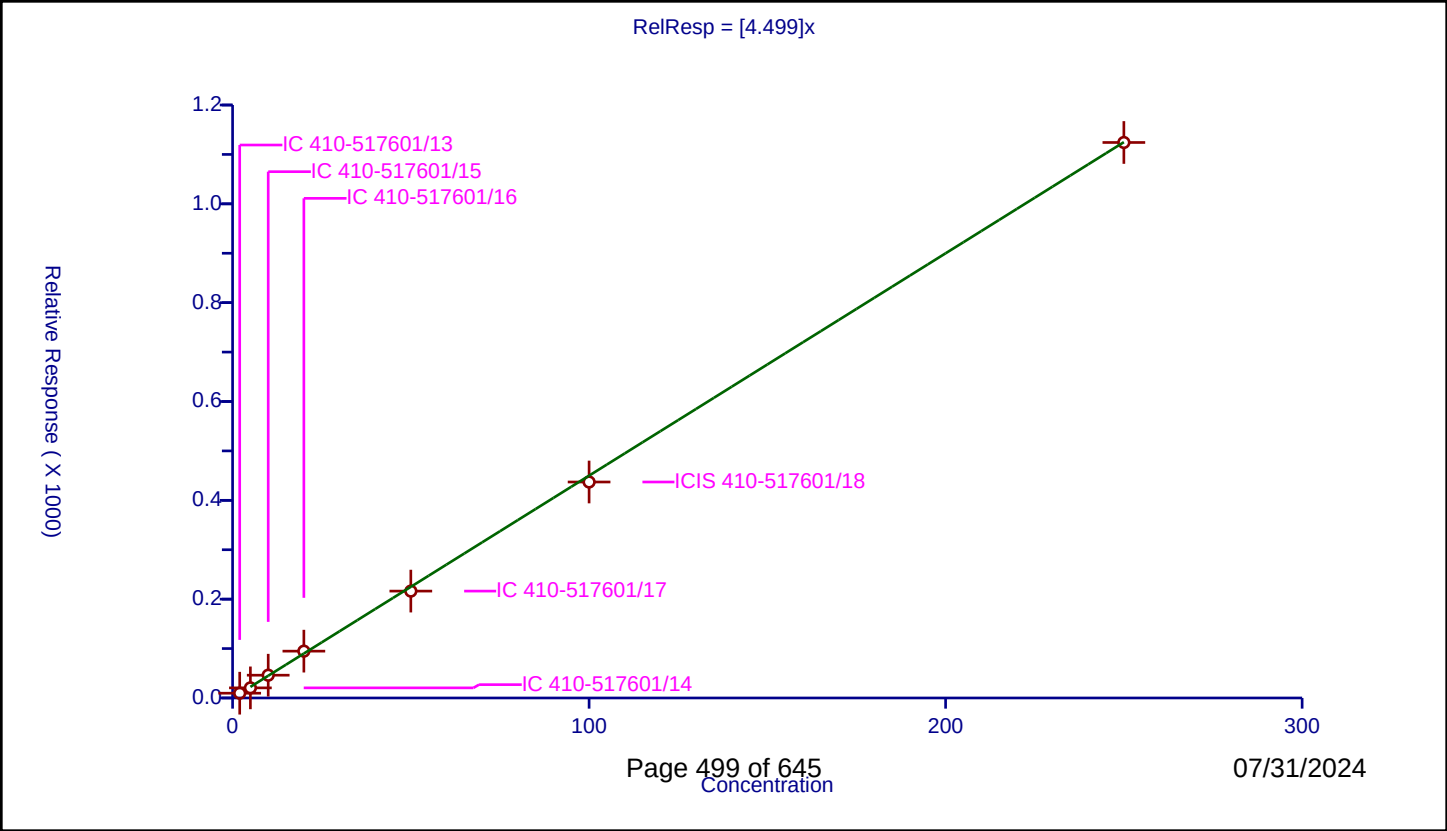


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.499
Error Coefficients	

Relative Standard Deviation: 5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	2.0	9.706379	50.0	173659.0	4.853189	Y
2	IC 410-517601/14	5.0	20.483277	50.0	188422.0	4.096655	Y
3	IC 410-517601/15	10.0	46.135516	50.0	167862.0	4.613552	Y
4	IC 410-517601/16	20.0	94.7715	50.0	164311.0	4.738575	Y
5	IC 410-517601/17	50.0	216.297157	50.0	180780.0	4.325943	Y
6	ICIS 410-517601/18	100.0	437.115989	50.0	188699.0	4.37116	Y
7	IC 410-517601/19	250.0	1124.159256	50.0	188137.0	4.496637	Y



Calibration

/ Tetrahydrofuran

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

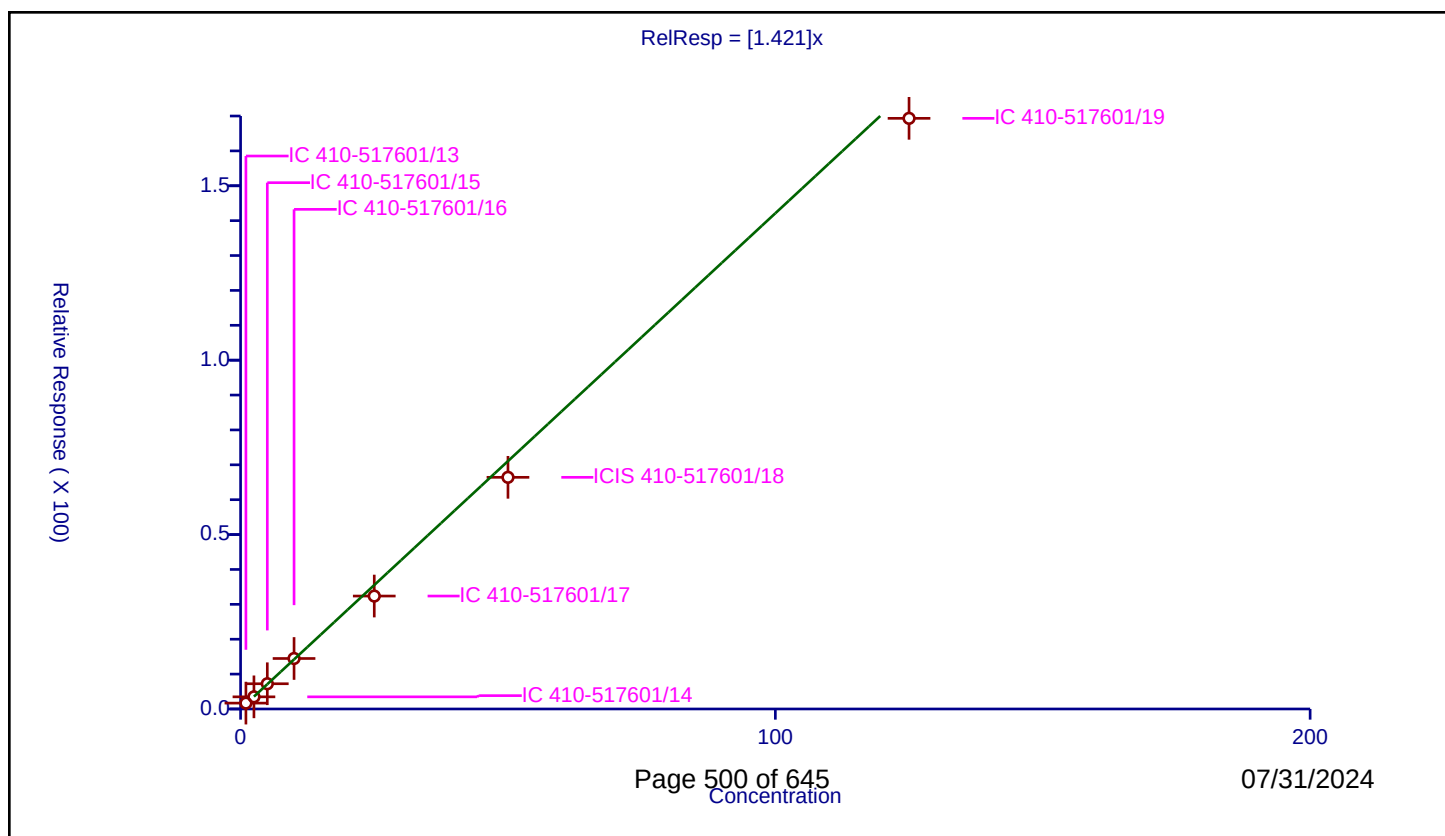
Curve Coefficients

Intercept: 0
Slope: 1.421

Error Coefficients

Relative Standard Deviation: 9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	1.0	1.682608	50.0	173659.0	1.682608	Y
2	IC 410-517601/14	2.5	3.482608	50.0	188422.0	1.393043	Y
3	IC 410-517601/15	5.0	7.236003	50.0	167862.0	1.447201	Y
4	IC 410-517601/16	10.0	14.477424	50.0	164311.0	1.447742	Y
5	IC 410-517601/17	25.0	32.376922	50.0	180780.0	1.295077	Y
6	ICIS 410-517601/18	50.0	66.415296	50.0	188699.0	1.328306	Y
7	IC 410-517601/19	125.0	169.331657	50.0	188137.0	1.354653	Y



Calibration

/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

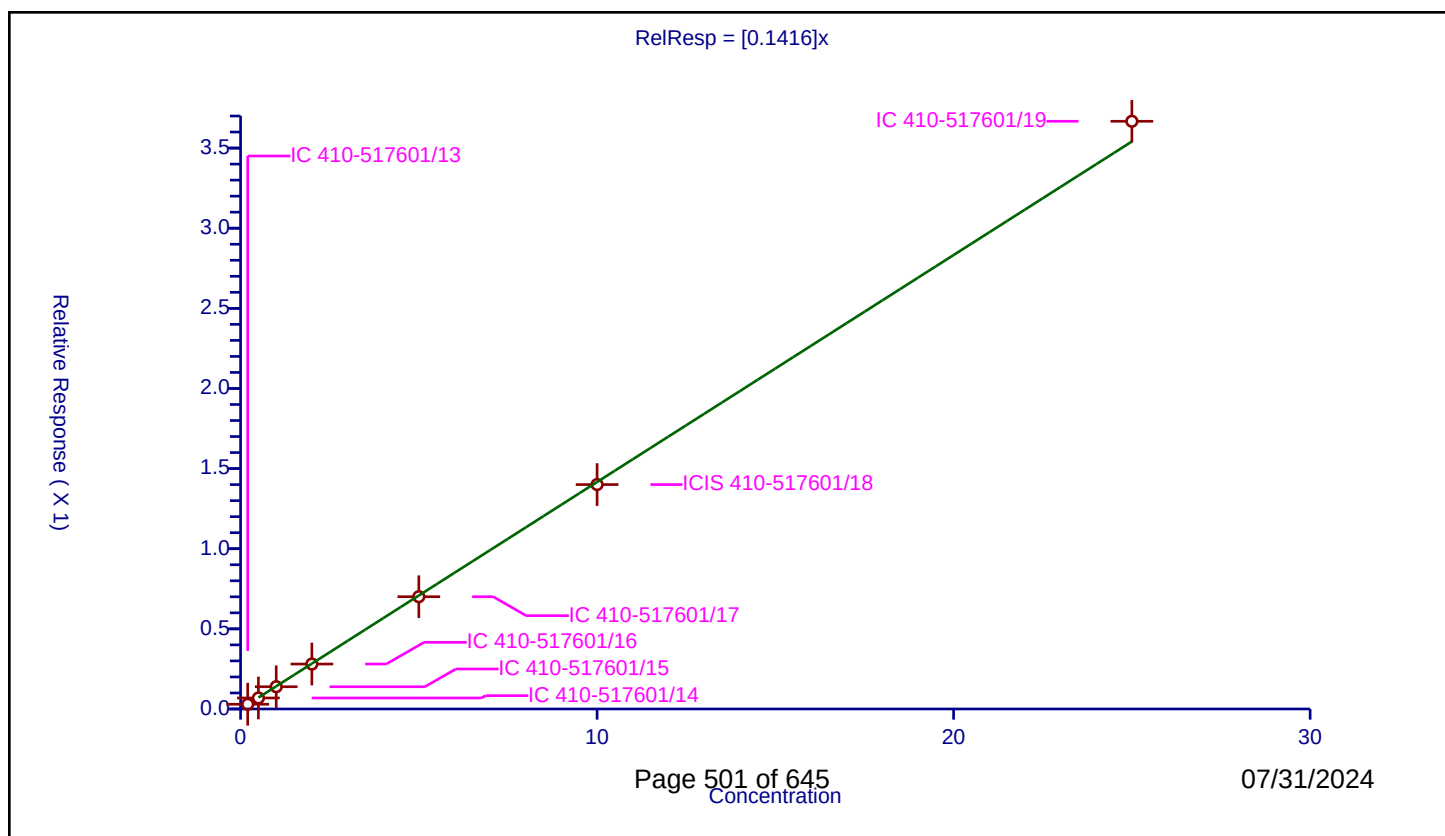
Curve Coefficients

Intercept: 0
Slope: 0.1416

Error Coefficients

Relative Standard Deviation: 2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.029612	10.0	2259919.0	0.148058	Y
2	IC 410-517601/14	0.5	0.068687	10.0	2249339.0	0.137374	Y
3	IC 410-517601/15	1.0	0.138903	10.0	2225227.0	0.138903	Y
4	IC 410-517601/16	2.0	0.280501	10.0	2217927.0	0.14025	Y
5	IC 410-517601/17	5.0	0.700544	10.0	2250394.0	0.140109	Y
6	ICIS 410-517601/18	10.0	1.400315	10.0	2282400.0	0.140032	Y
7	IC 410-517601/19	25.0	3.66727	10.0	2233108.0	0.146691	Y



Calibration

/ Chloroform

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

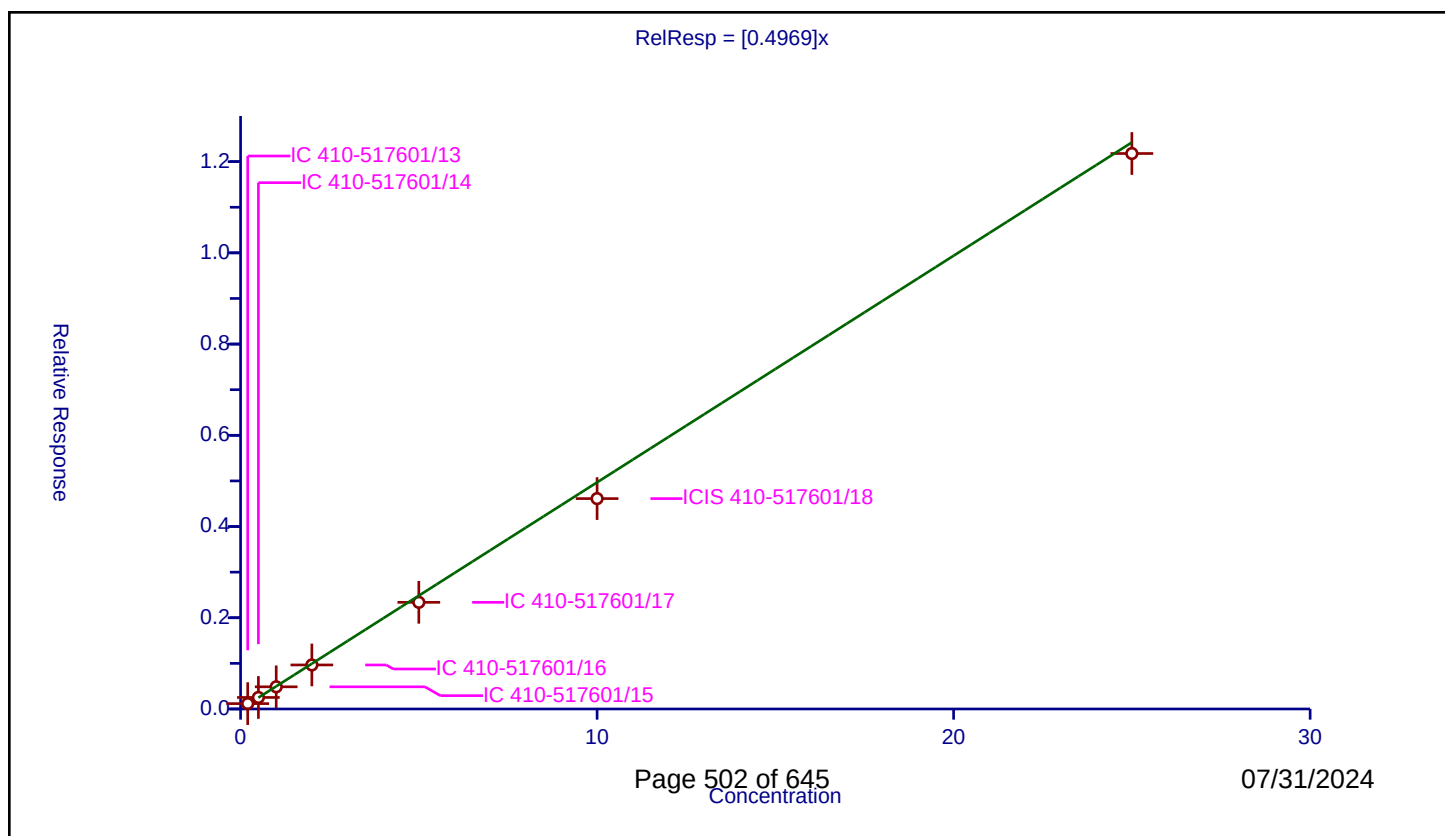
Curve Coefficients

Intercept: 0
 Slope: 0.4969

Error Coefficients

Relative Standard Deviation: 8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.117615	10.0	2259919.0	0.588074	Y
2	IC 410-517601/14	0.5	0.25259	10.0	2249339.0	0.50518	Y
3	IC 410-517601/15	1.0	0.486076	10.0	2225227.0	0.486076	Y
4	IC 410-517601/16	2.0	0.965302	10.0	2217927.0	0.482651	Y
5	IC 410-517601/17	5.0	2.338204	10.0	2250394.0	0.467641	Y
6	ICIS 410-517601/18	10.0	4.612666	10.0	2282400.0	0.461267	Y
7	IC 410-517601/19	25.0	12.17779	10.0	2233108.0	0.487112	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

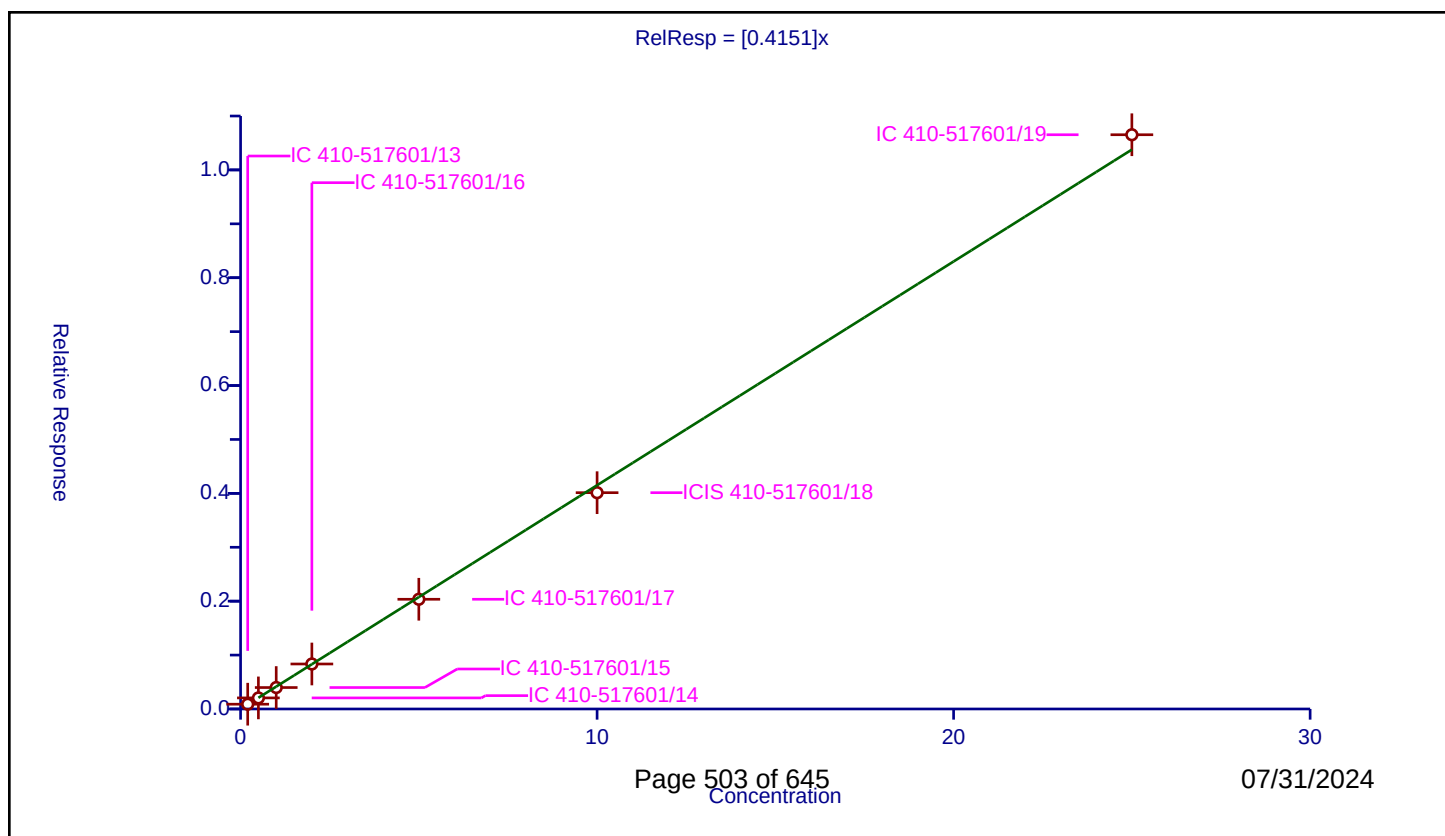
Curve Coefficients

Intercept: 0
Slope: 0.4151

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.088981	10.0	2259919.0	0.444905	Y
2	IC 410-517601/14	0.5	0.205291	10.0	2249339.0	0.410583	Y
3	IC 410-517601/15	1.0	0.398148	10.0	2225227.0	0.398148	Y
4	IC 410-517601/16	2.0	0.834883	10.0	2217927.0	0.417442	Y
5	IC 410-517601/17	5.0	2.035257	10.0	2250394.0	0.407051	Y
6	ICIS 410-517601/18	10.0	4.012504	10.0	2282400.0	0.40125	Y
7	IC 410-517601/19	25.0	10.652839	10.0	2233108.0	0.426114	Y



Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

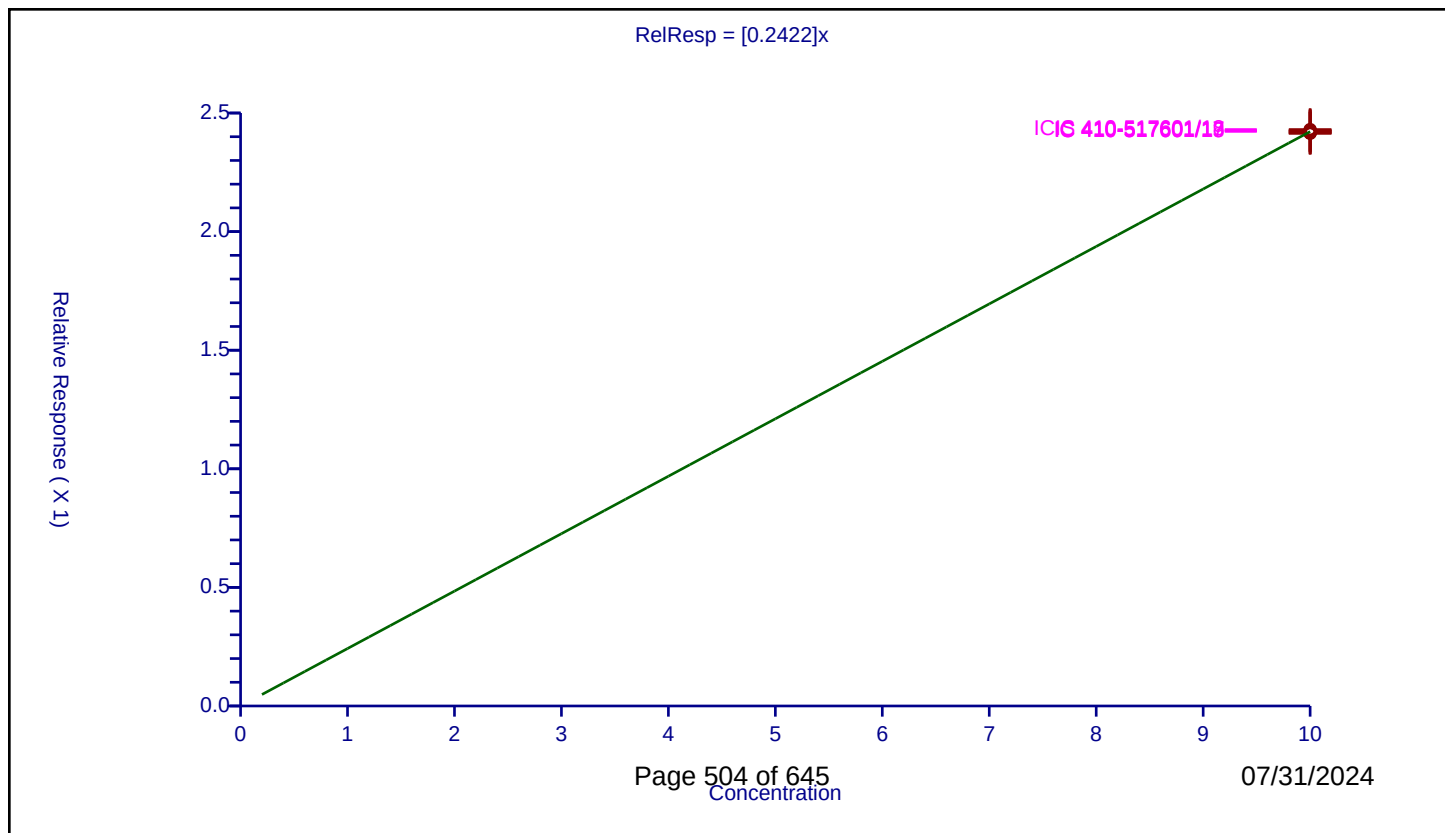
Curve Coefficients

Intercept: 0
 Slope: 0.2422

Error Coefficients

Relative Standard Deviation: 0.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	10.0	2.424976	10.0	2259919.0	0.242498	Y
2	IC 410-517601/14	10.0	2.414514	10.0	2249339.0	0.241451	Y
3	IC 410-517601/15	10.0	2.416198	10.0	2225227.0	0.24162	Y
4	IC 410-517601/16	10.0	2.416649	10.0	2217927.0	0.241665	Y
5	IC 410-517601/17	10.0	2.426317	10.0	2250394.0	0.242632	Y
6	ICIS 410-517601/18	10.0	2.430297	10.0	2282400.0	0.24303	Y
7	IC 410-517601/19	10.0	2.422771	10.0	2233108.0	0.242277	Y



Calibration

/ Cyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

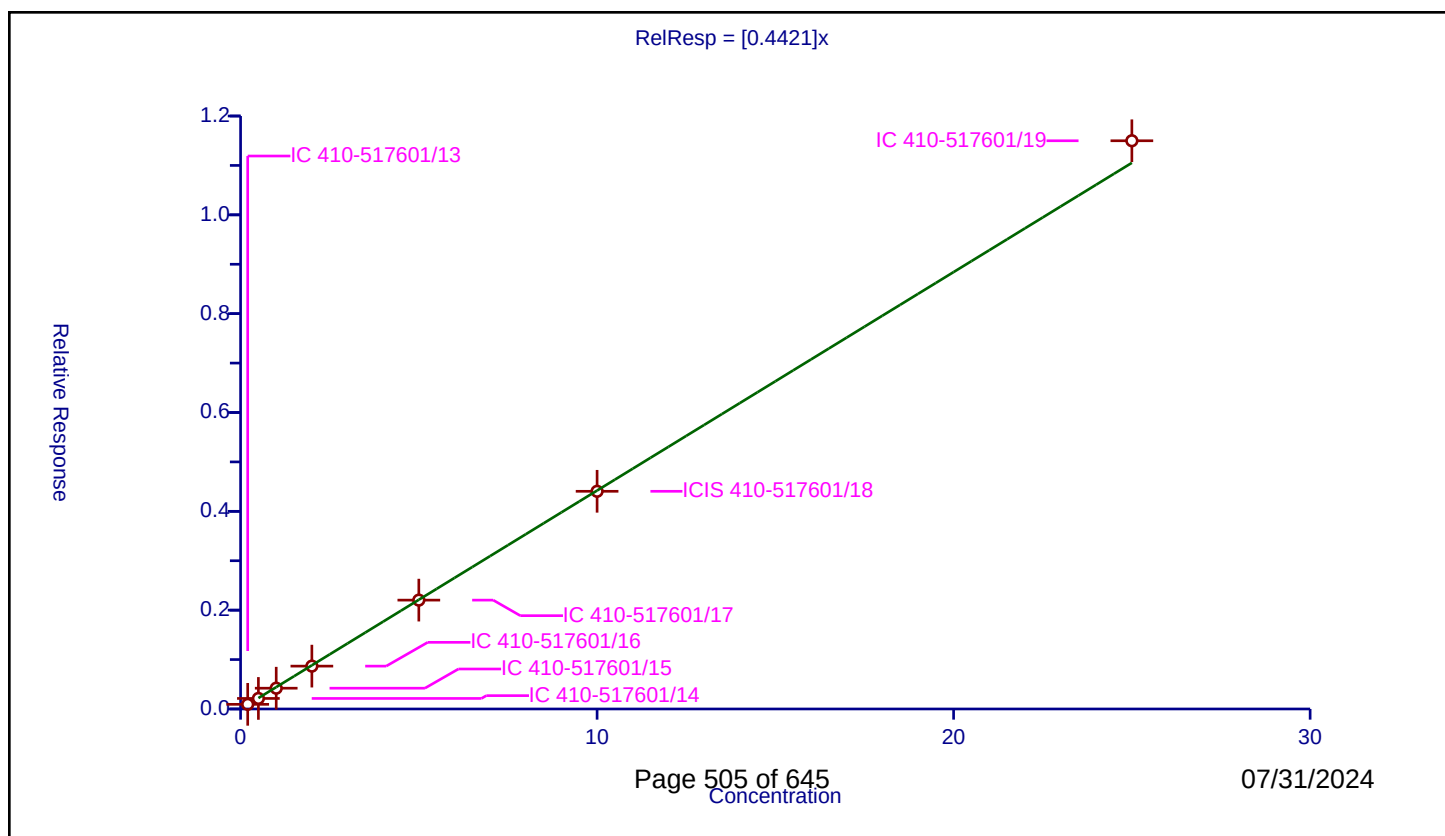
Curve Coefficients

Intercept: 0
Slope: 0.4421

Error Coefficients

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.094357	10.0	2259919.0	0.471787	Y
2	IC 410-517601/14	0.5	0.213654	10.0	2249339.0	0.427308	Y
3	IC 410-517601/15	1.0	0.420789	10.0	2225227.0	0.420789	Y
4	IC 410-517601/16	2.0	0.867229	10.0	2217927.0	0.433614	Y
5	IC 410-517601/17	5.0	2.203379	10.0	2250394.0	0.440676	Y
6	ICIS 410-517601/18	10.0	4.405542	10.0	2282400.0	0.440554	Y
7	IC 410-517601/19	25.0	11.499309	10.0	2233108.0	0.459972	Y



Calibration

/ 1,1-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

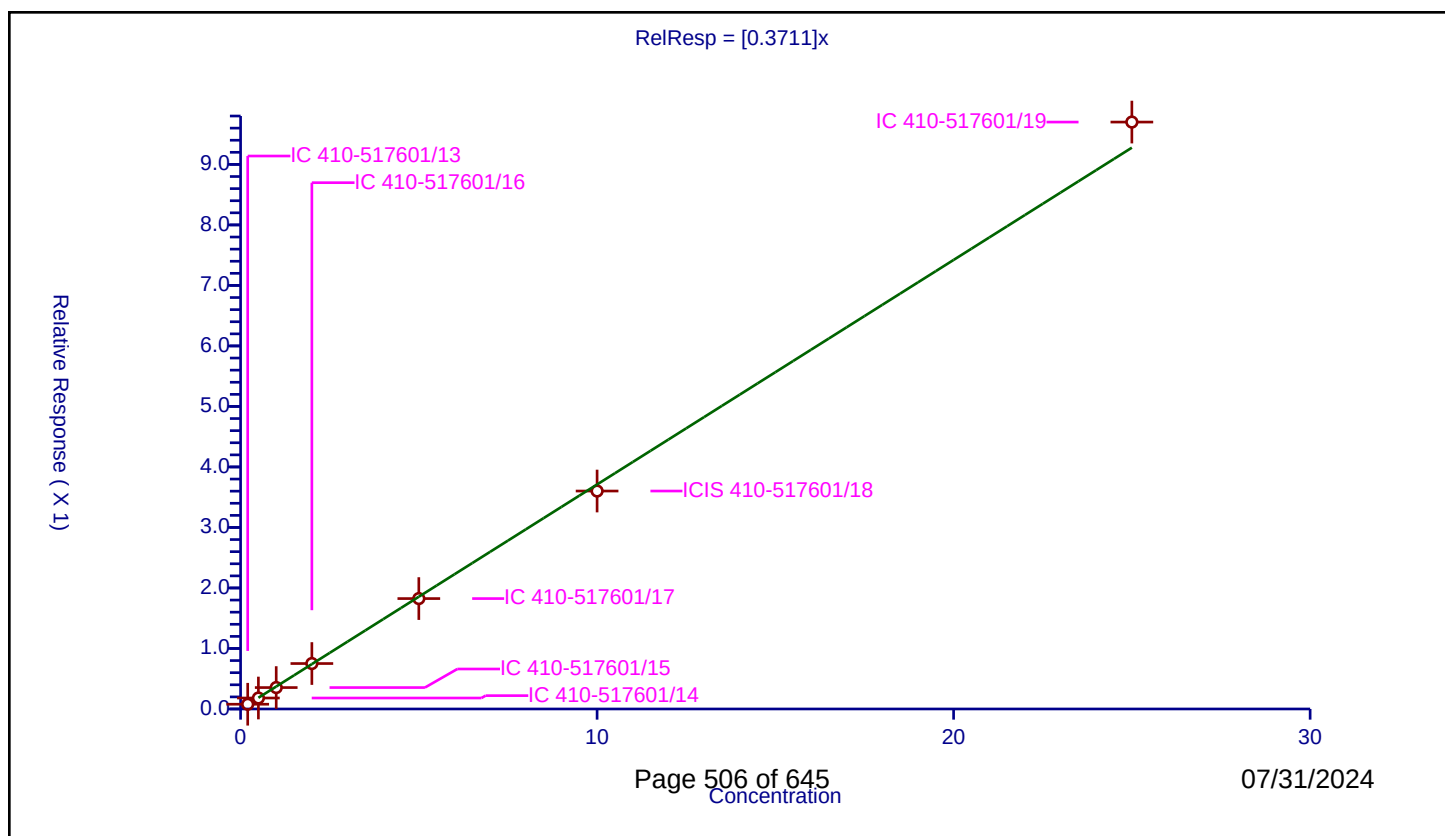
Curve Coefficients

Intercept: 0
Slope: 0.3711

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.078445	10.0	2259919.0	0.392226	Y
2	IC 410-517601/14	0.5	0.181253	10.0	2249339.0	0.362506	Y
3	IC 410-517601/15	1.0	0.354004	10.0	2225227.0	0.354004	Y
4	IC 410-517601/16	2.0	0.751183	10.0	2217927.0	0.375592	Y
5	IC 410-517601/17	5.0	1.824783	10.0	2250394.0	0.364957	Y
6	ICIS 410-517601/18	10.0	3.60227	10.0	2282400.0	0.360227	Y
7	IC 410-517601/19	25.0	9.700118	10.0	2233108.0	0.388005	Y



Calibration

/ Carbon tetrachloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

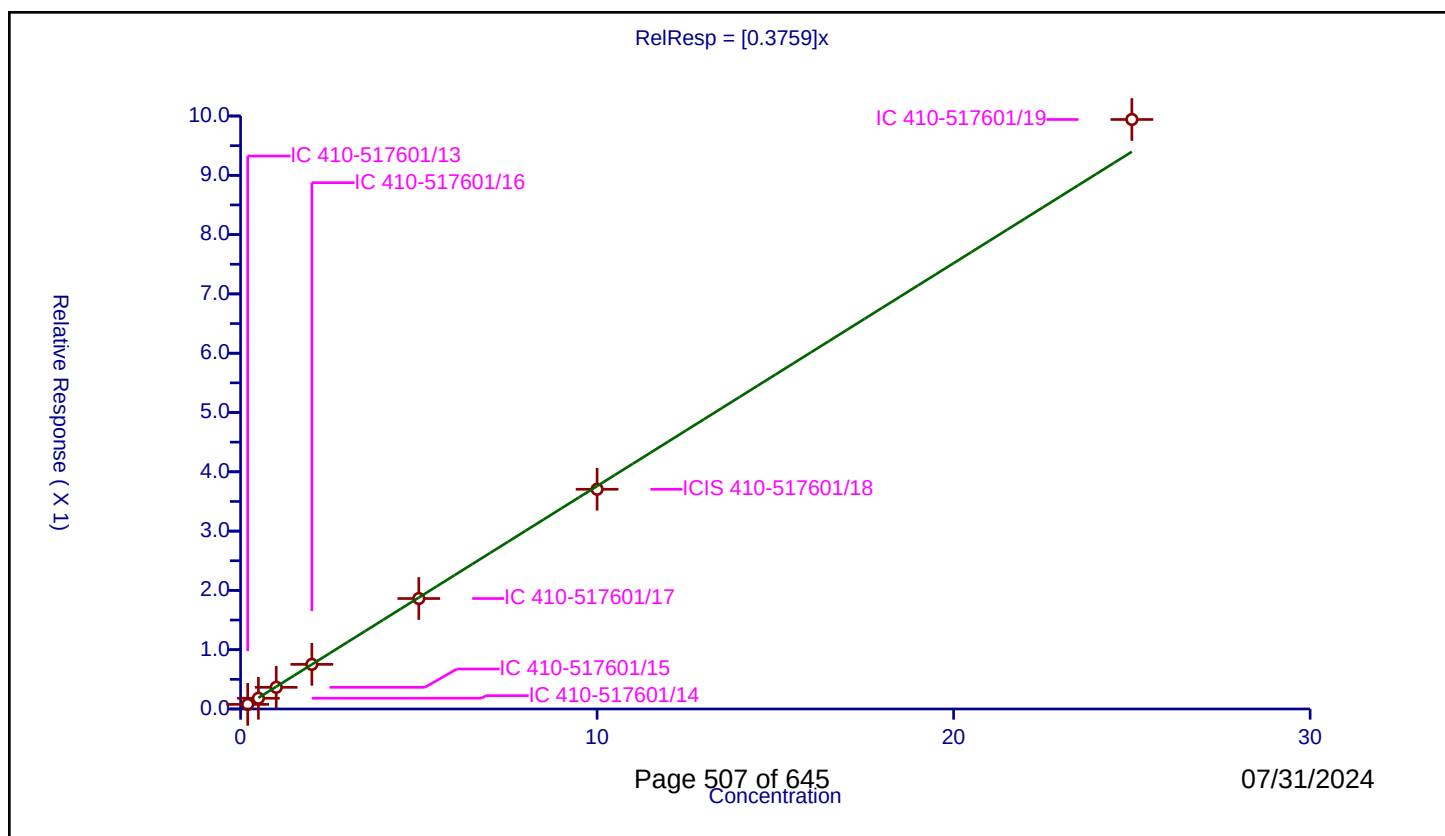
Curve Coefficients

Intercept: 0
Slope: 0.3759

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.077414	10.0	2259919.0	0.387071	Y
2	IC 410-517601/14	0.5	0.181067	10.0	2249339.0	0.362133	Y
3	IC 410-517601/15	1.0	0.365167	10.0	2225227.0	0.365167	Y
4	IC 410-517601/16	2.0	0.752378	10.0	2217927.0	0.376189	Y
5	IC 410-517601/17	5.0	1.86314	10.0	2250394.0	0.372628	Y
6	ICIS 410-517601/18	10.0	3.705288	10.0	2282400.0	0.370529	Y
7	IC 410-517601/19	25.0	9.941633	10.0	2233108.0	0.397665	Y



Calibration

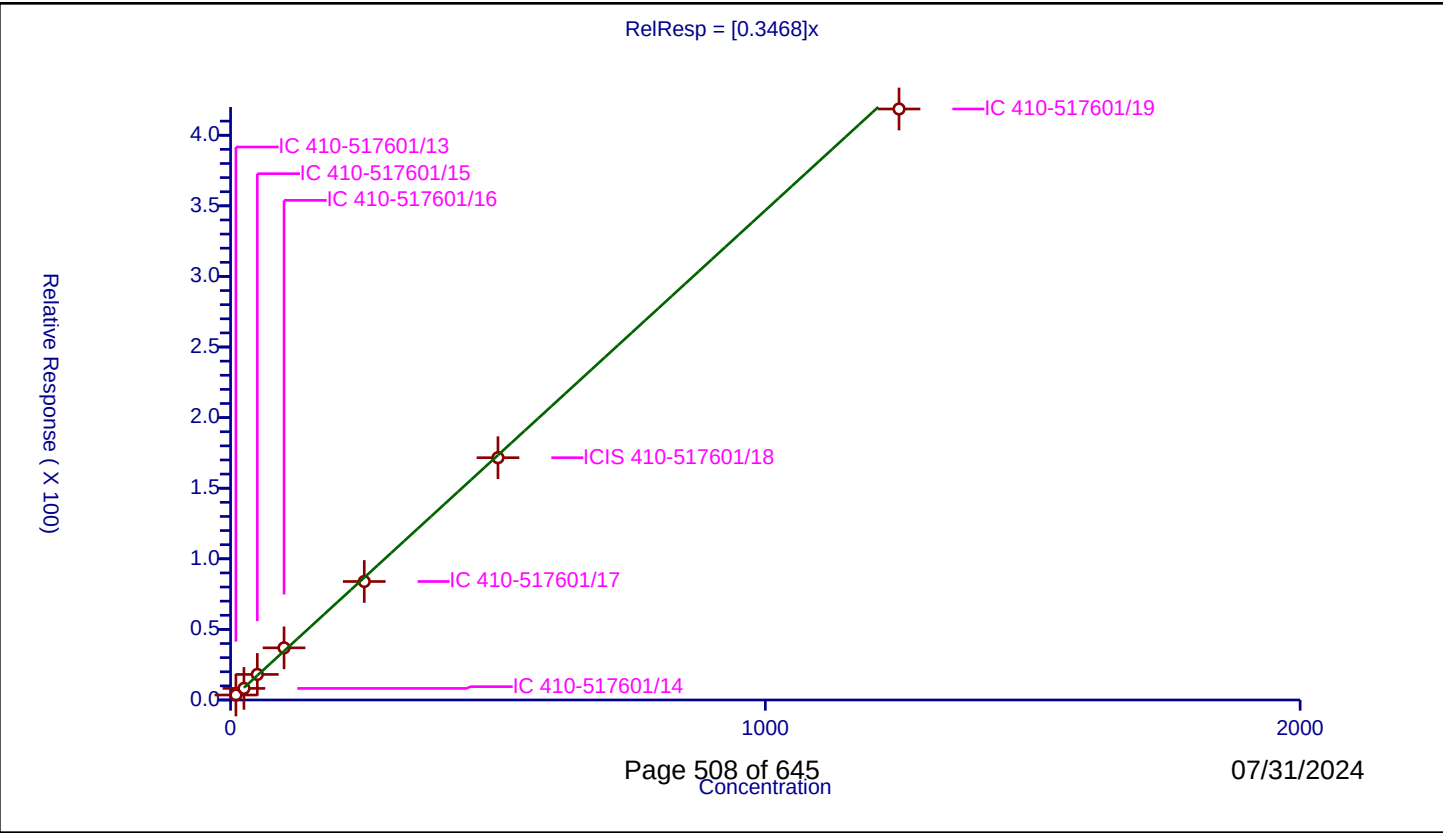
/ Isobutyl alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3468
Error Coefficients	

Relative Standard Deviation: 4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	10.0	3.538256	50.0	173659.0	0.353826	Y
2	IC 410-517601/14	25.0	8.210294	50.0	188422.0	0.328412	Y
3	IC 410-517601/15	50.0	18.105944	50.0	167862.0	0.362119	Y
4	IC 410-517601/16	100.0	36.934228	50.0	164311.0	0.369342	Y
5	IC 410-517601/17	250.0	83.928255	50.0	180780.0	0.335713	Y
6	ICIS 410-517601/18	500.0	171.598684	50.0	188699.0	0.343197	Y
7	IC 410-517601/19	1250.0	418.597883	50.0	188137.0	0.334878	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

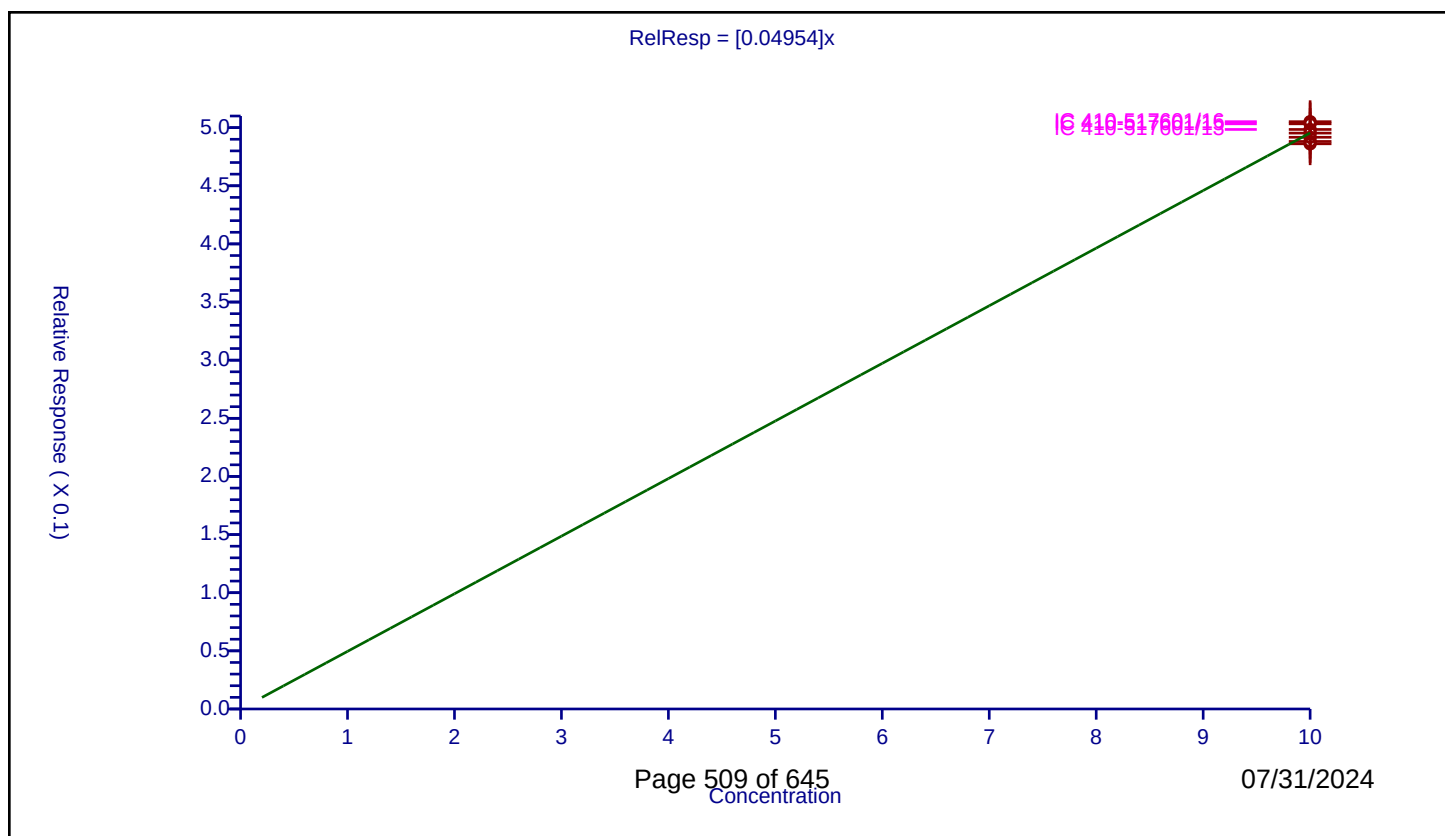
Curve Coefficients

Intercept: 0
 Slope: 0.04954

Error Coefficients

Relative Standard Deviation: 1.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	10.0	0.498429	10.0	2259919.0	0.049843	Y
2	IC 410-517601/14	10.0	0.486103	10.0	2249339.0	0.04861	Y
3	IC 410-517601/15	10.0	0.503288	10.0	2225227.0	0.050329	Y
4	IC 410-517601/16	10.0	0.505143	10.0	2217927.0	0.050514	Y
5	IC 410-517601/17	10.0	0.495309	10.0	2250394.0	0.049531	Y
6	ICIS 410-517601/18	10.0	0.488109	10.0	2282400.0	0.048811	Y
7	IC 410-517601/19	10.0	0.491723	10.0	2233108.0	0.049172	Y

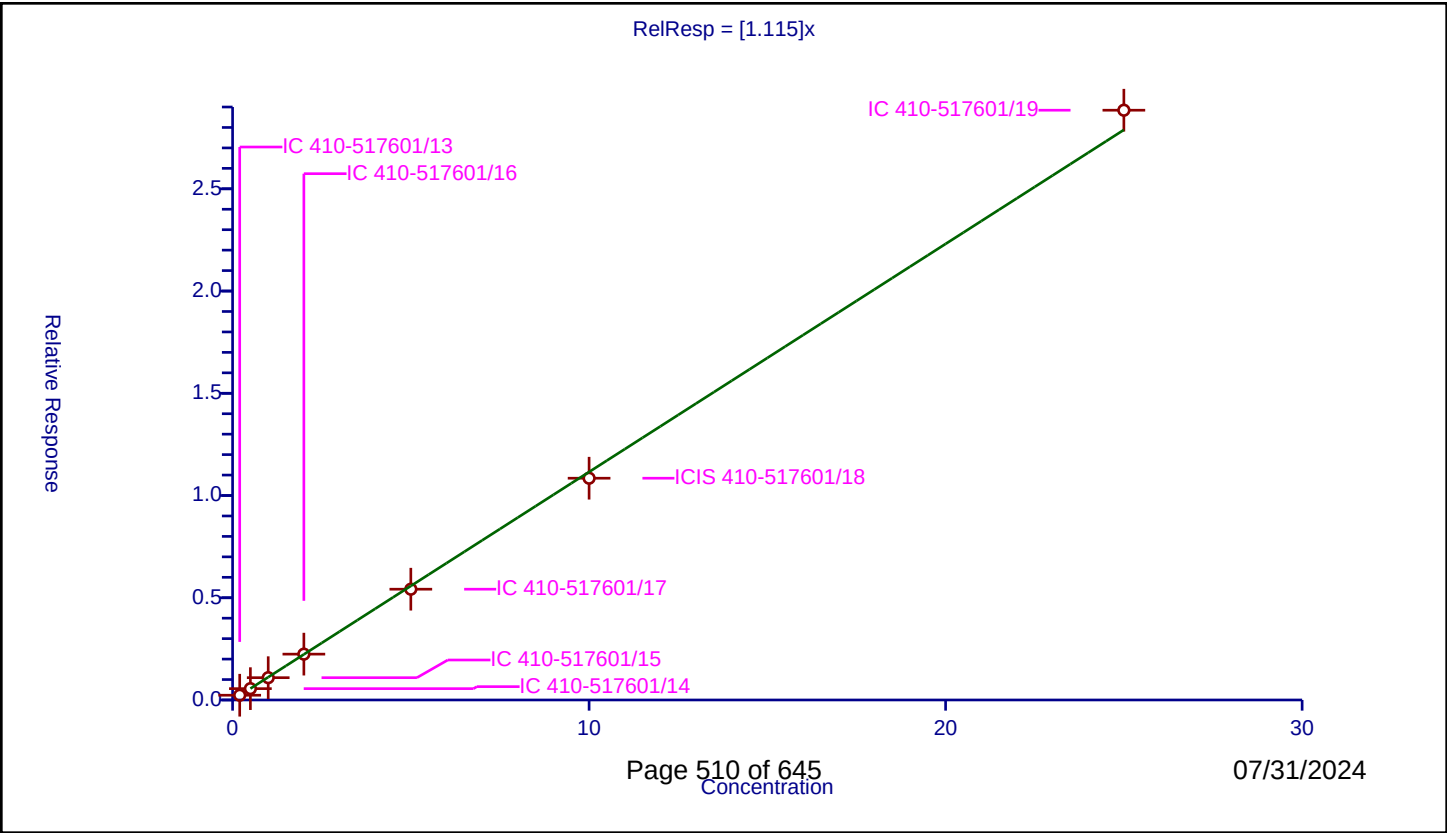


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.115
Error Coefficients	

Relative Standard Deviation: 2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.232561	10.0	2259919.0	1.162807	Y
2	IC 410-517601/14	0.5	0.555292	10.0	2249339.0	1.110584	Y
3	IC 410-517601/15	1.0	1.090608	10.0	2225227.0	1.090608	Y
4	IC 410-517601/16	2.0	2.24208	10.0	2217927.0	1.12104	Y
5	IC 410-517601/17	5.0	5.417625	10.0	2250394.0	1.083525	Y
6	ICIS 410-517601/18	10.0	10.84639	10.0	2282400.0	1.084639	Y
7	IC 410-517601/19	25.0	28.842873	10.0	2233108.0	1.153715	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

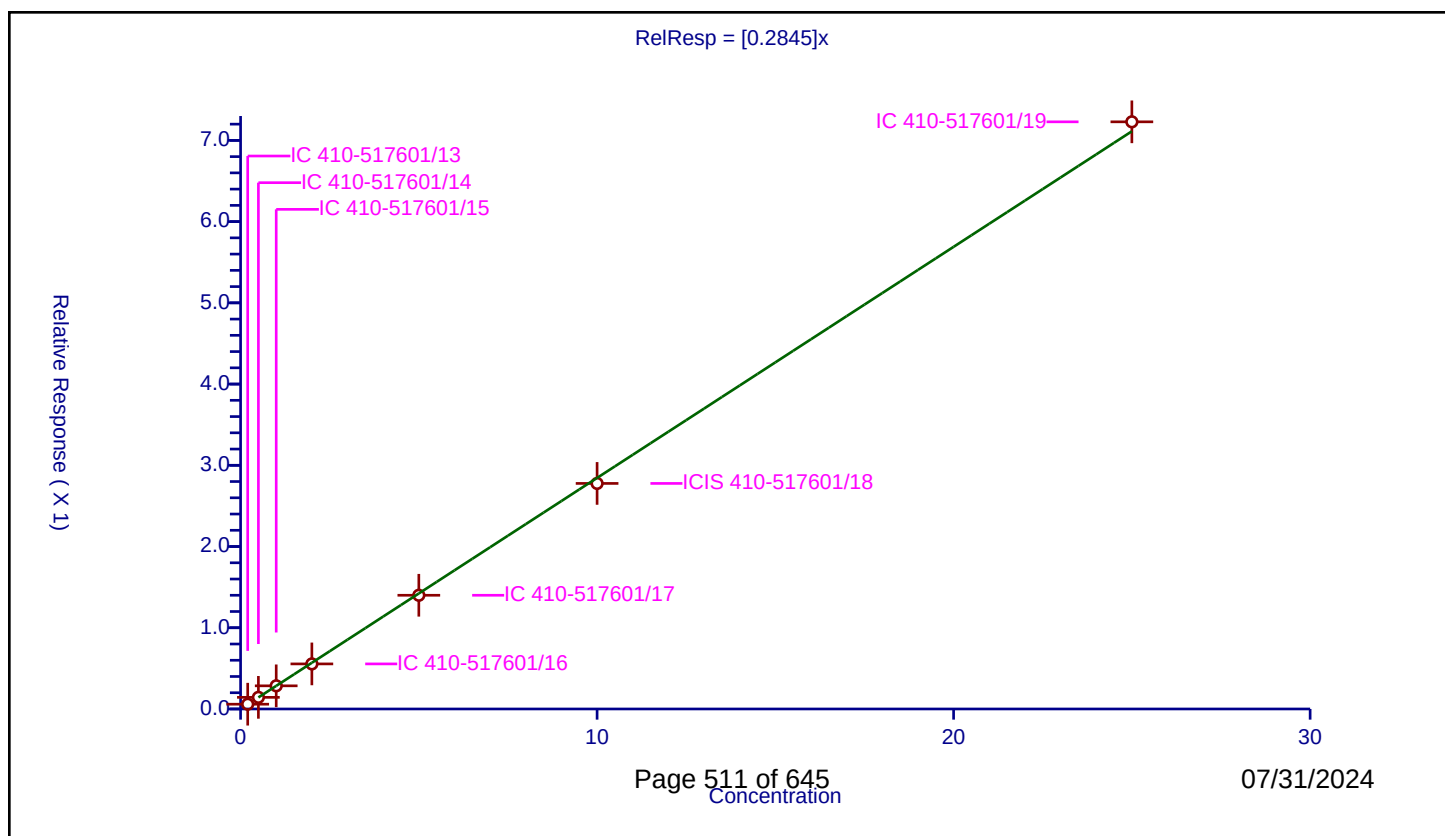
Curve Coefficients

Intercept: 0
Slope: 0.2845

Error Coefficients

Relative Standard Deviation: 2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.059011	10.0	2259919.0	0.295055	Y
2	IC 410-517601/14	0.5	0.143375	10.0	2249339.0	0.286751	Y
3	IC 410-517601/15	1.0	0.285243	10.0	2225227.0	0.285243	Y
4	IC 410-517601/16	2.0	0.554888	10.0	2217927.0	0.277444	Y
5	IC 410-517601/17	5.0	1.400022	10.0	2250394.0	0.280004	Y
6	ICIS 410-517601/18	10.0	2.776897	10.0	2282400.0	0.27769	Y
7	IC 410-517601/19	25.0	7.22841	10.0	2233108.0	0.289136	Y



Calibration

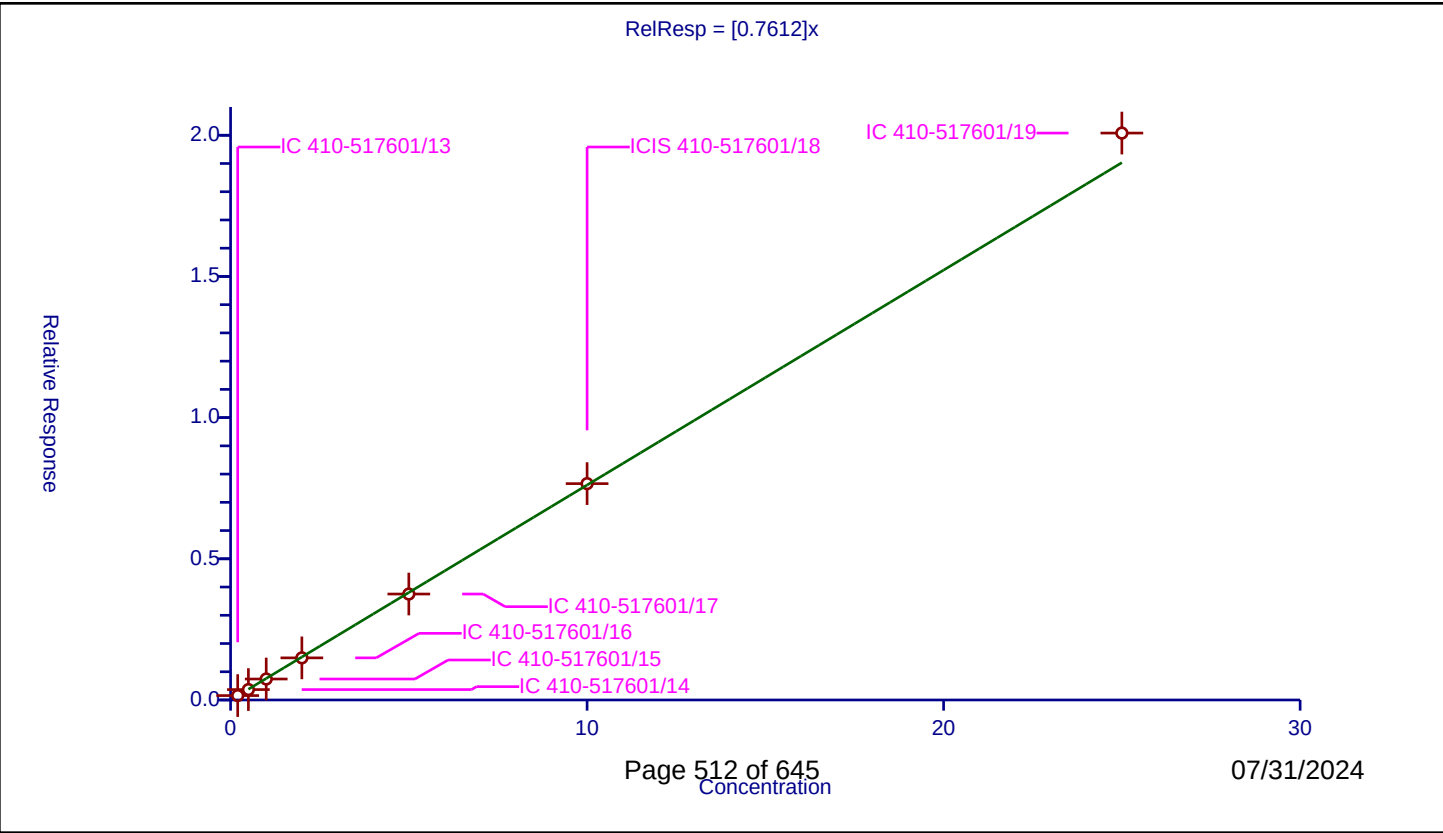
/ Tert-amyl methyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7612
Error Coefficients	

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.156373	10.0	2259919.0	0.781864	Y
2	IC 410-517601/14	0.5	0.368944	10.0	2249339.0	0.737888	Y
3	IC 410-517601/15	1.0	0.742985	10.0	2225227.0	0.742985	Y
4	IC 410-517601/16	2.0	1.491871	10.0	2217927.0	0.745935	Y
5	IC 410-517601/17	5.0	3.75233	10.0	2250394.0	0.750466	Y
6	ICIS 410-517601/18	10.0	7.662728	10.0	2282400.0	0.766273	Y
7	IC 410-517601/19	25.0	20.077032	10.0	2233108.0	0.803081	Y



Calibration

/ n-Heptane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

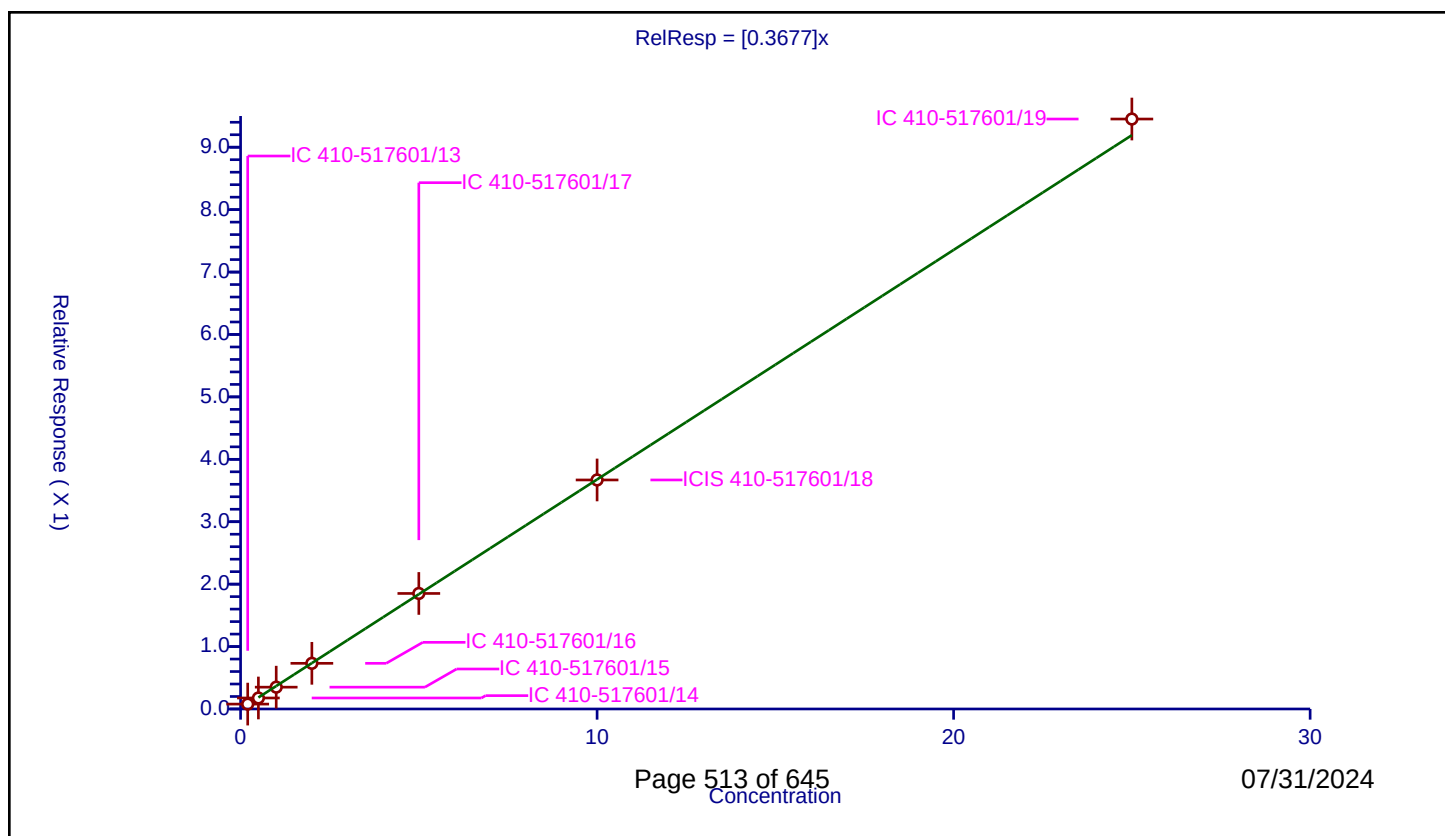
Curve Coefficients

Intercept: 0
Slope: 0.3677

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.078189	10.0	2259919.0	0.390943	Y
2	IC 410-517601/14	0.5	0.176207	10.0	2249339.0	0.352415	Y
3	IC 410-517601/15	1.0	0.349749	10.0	2225227.0	0.349749	Y
4	IC 410-517601/16	2.0	0.731557	10.0	2217927.0	0.365778	Y
5	IC 410-517601/17	5.0	1.850778	10.0	2250394.0	0.370156	Y
6	ICIS 410-517601/18	10.0	3.669401	10.0	2282400.0	0.36694	Y
7	IC 410-517601/19	25.0	9.451554	10.0	2233108.0	0.378062	Y



Calibration

/ n-Butanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

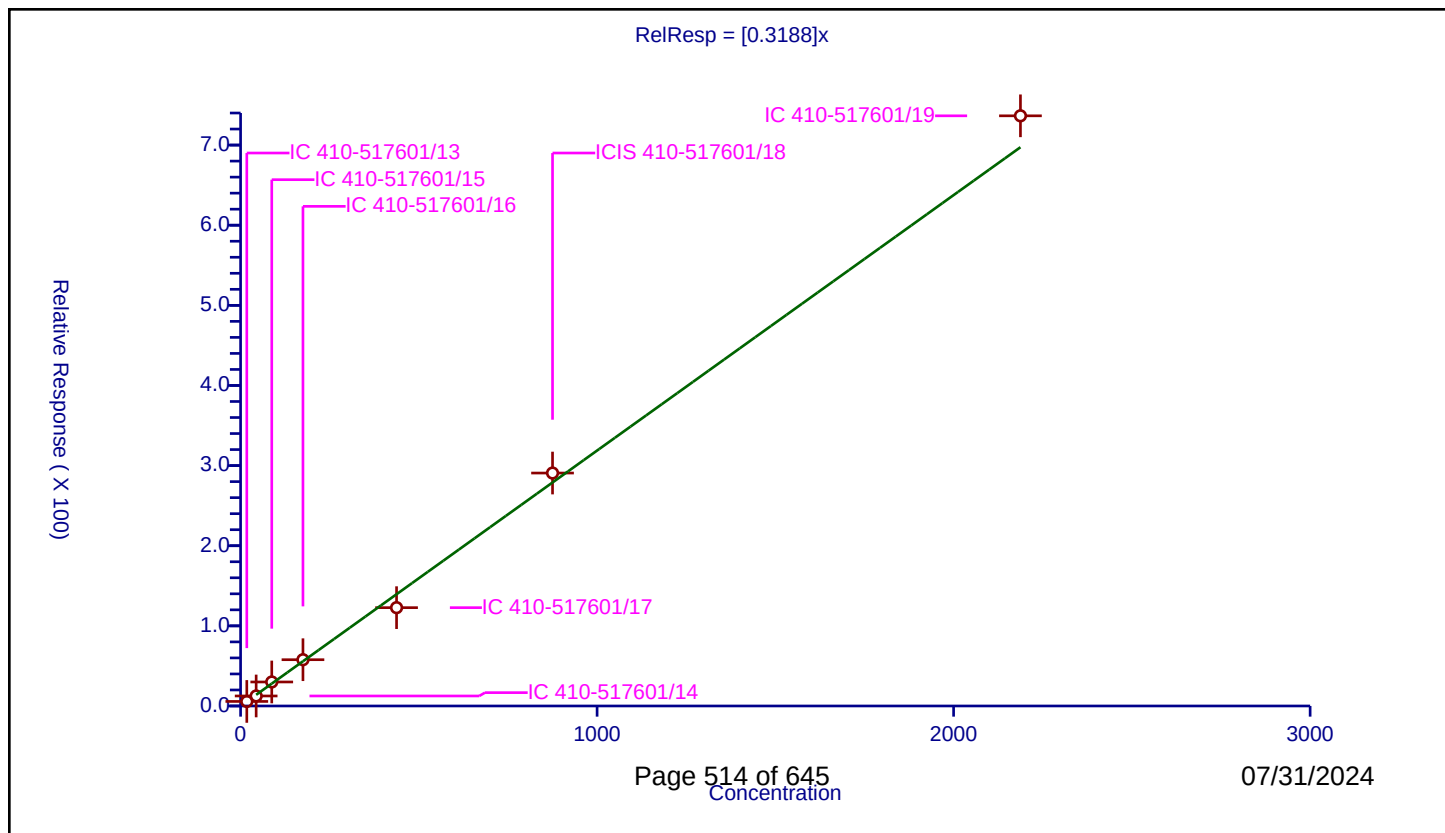
Curve Coefficients

Intercept: 0
Slope: 0.3188

Error Coefficients

Relative Standard Deviation: 7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	17.5	5.661094	50.0	173659.0	0.323491	Y
2	IC 410-517601/14	43.75	12.500133	50.0	188422.0	0.285717	Y
3	IC 410-517601/15	87.5	29.980877	50.0	167862.0	0.342639	Y
4	IC 410-517601/16	175.0	57.767891	50.0	164311.0	0.330102	Y
5	IC 410-517601/17	437.5	122.706605	50.0	180780.0	0.280472	Y
6	ICIS 410-517601/18	875.0	290.720672	50.0	188699.0	0.332252	Y
7	IC 410-517601/19	2187.5	736.502655	50.0	188137.0	0.336687	Y



Calibration

/ Trichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

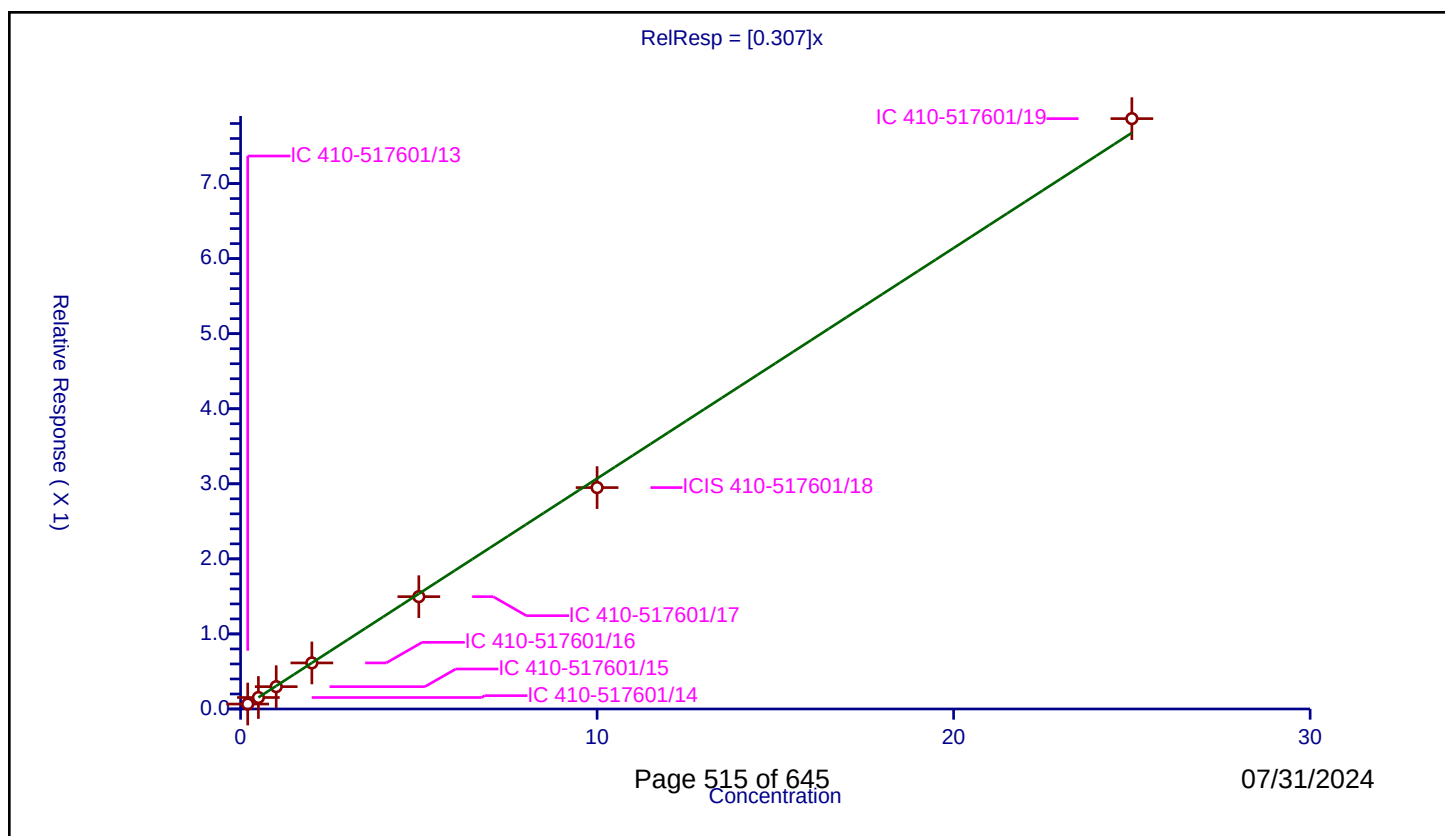
Curve Coefficients

Intercept: 0
Slope: 0.307

Error Coefficients

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.066064	10.0	2259919.0	0.330322	Y
2	IC 410-517601/14	0.5	0.152832	10.0	2249339.0	0.305663	Y
3	IC 410-517601/15	1.0	0.297583	10.0	2225227.0	0.297583	Y
4	IC 410-517601/16	2.0	0.613591	10.0	2217927.0	0.306795	Y
5	IC 410-517601/17	5.0	1.496751	10.0	2250394.0	0.29935	Y
6	ICIS 410-517601/18	10.0	2.949641	10.0	2282400.0	0.294964	Y
7	IC 410-517601/19	25.0	7.865356	10.0	2233108.0	0.314614	Y

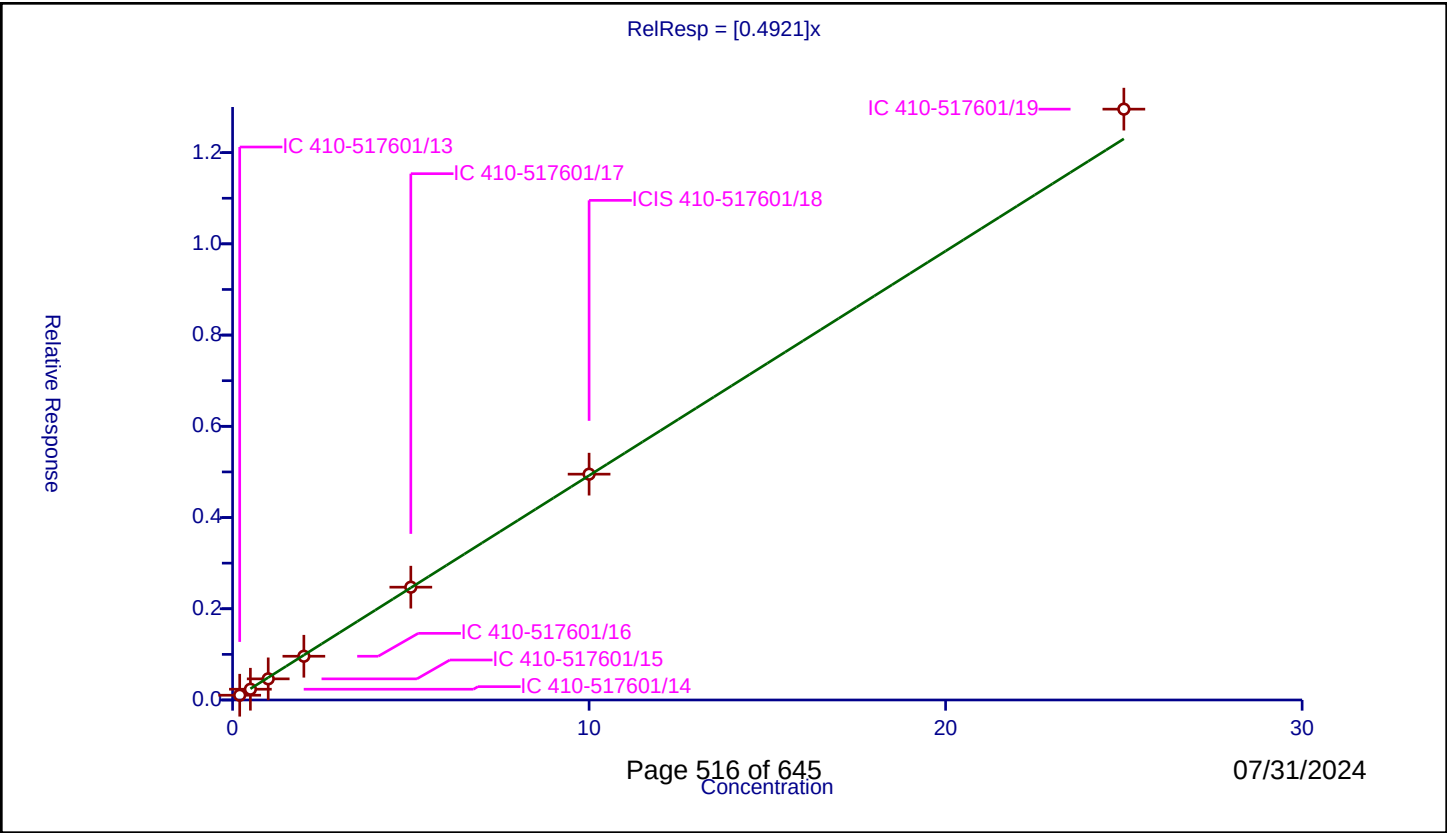


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4921
Error Coefficients	

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.104535	10.0	2259919.0	0.522674	Y
2	IC 410-517601/14	0.5	0.235687	10.0	2249339.0	0.471374	Y
3	IC 410-517601/15	1.0	0.463476	10.0	2225227.0	0.463476	Y
4	IC 410-517601/16	2.0	0.958801	10.0	2217927.0	0.4794	Y
5	IC 410-517601/17	5.0	2.47302	10.0	2250394.0	0.494604	Y
6	ICIS 410-517601/18	10.0	4.950719	10.0	2282400.0	0.495072	Y
7	IC 410-517601/19	25.0	12.95344	10.0	2233108.0	0.518138	Y



Calibration

/ 1,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

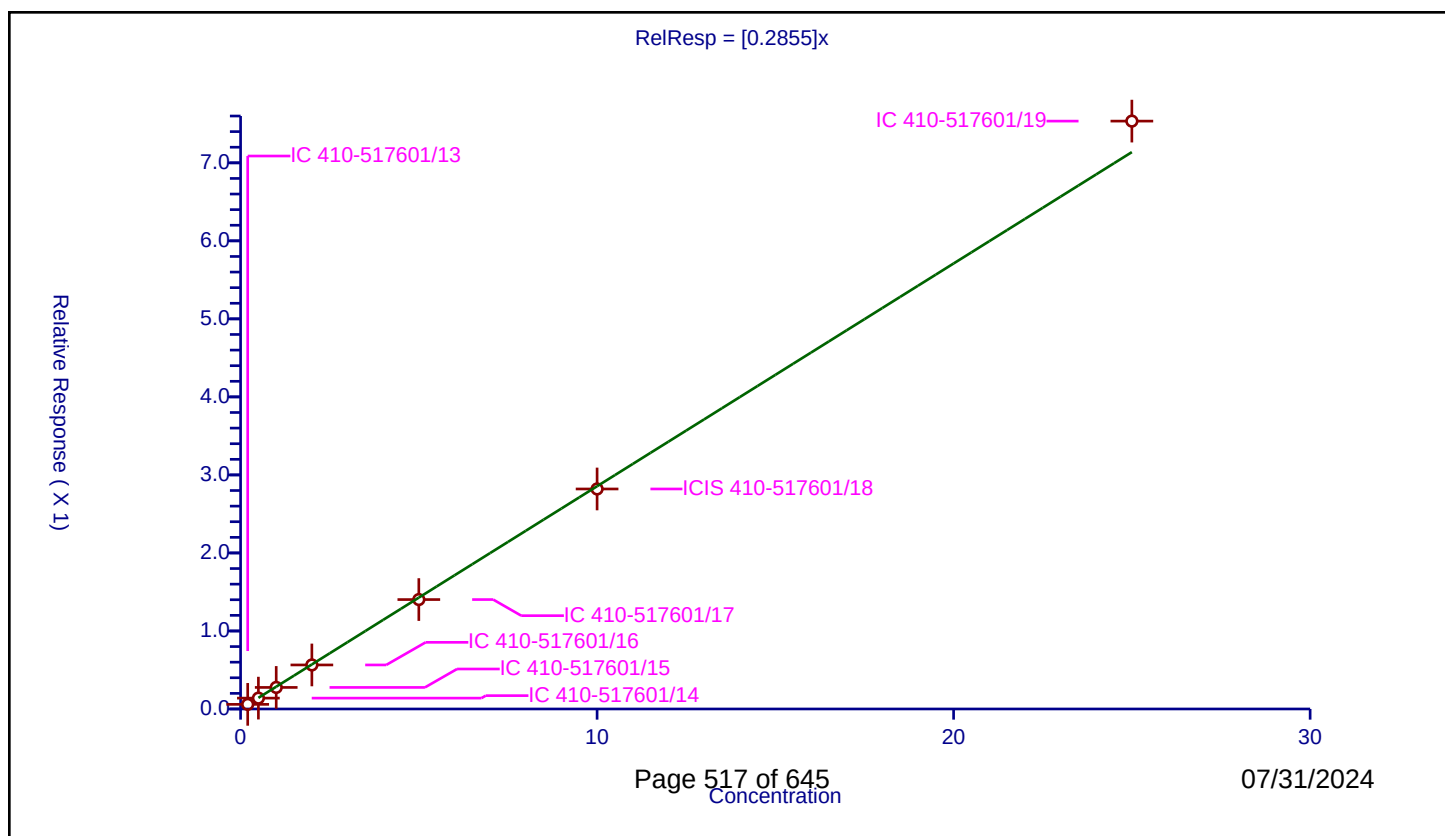
Curve Coefficients

Intercept: 0
Slope: 0.2855

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.059414	10.0	2259919.0	0.297068	Y
2	IC 410-517601/14	0.5	0.139401	10.0	2249339.0	0.278802	Y
3	IC 410-517601/15	1.0	0.276435	10.0	2225227.0	0.276435	Y
4	IC 410-517601/16	2.0	0.564568	10.0	2217927.0	0.282284	Y
5	IC 410-517601/17	5.0	1.402354	10.0	2250394.0	0.280471	Y
6	ICIS 410-517601/18	10.0	2.819979	10.0	2282400.0	0.281998	Y
7	IC 410-517601/19	25.0	7.534562	10.0	2233108.0	0.301382	Y



Calibration

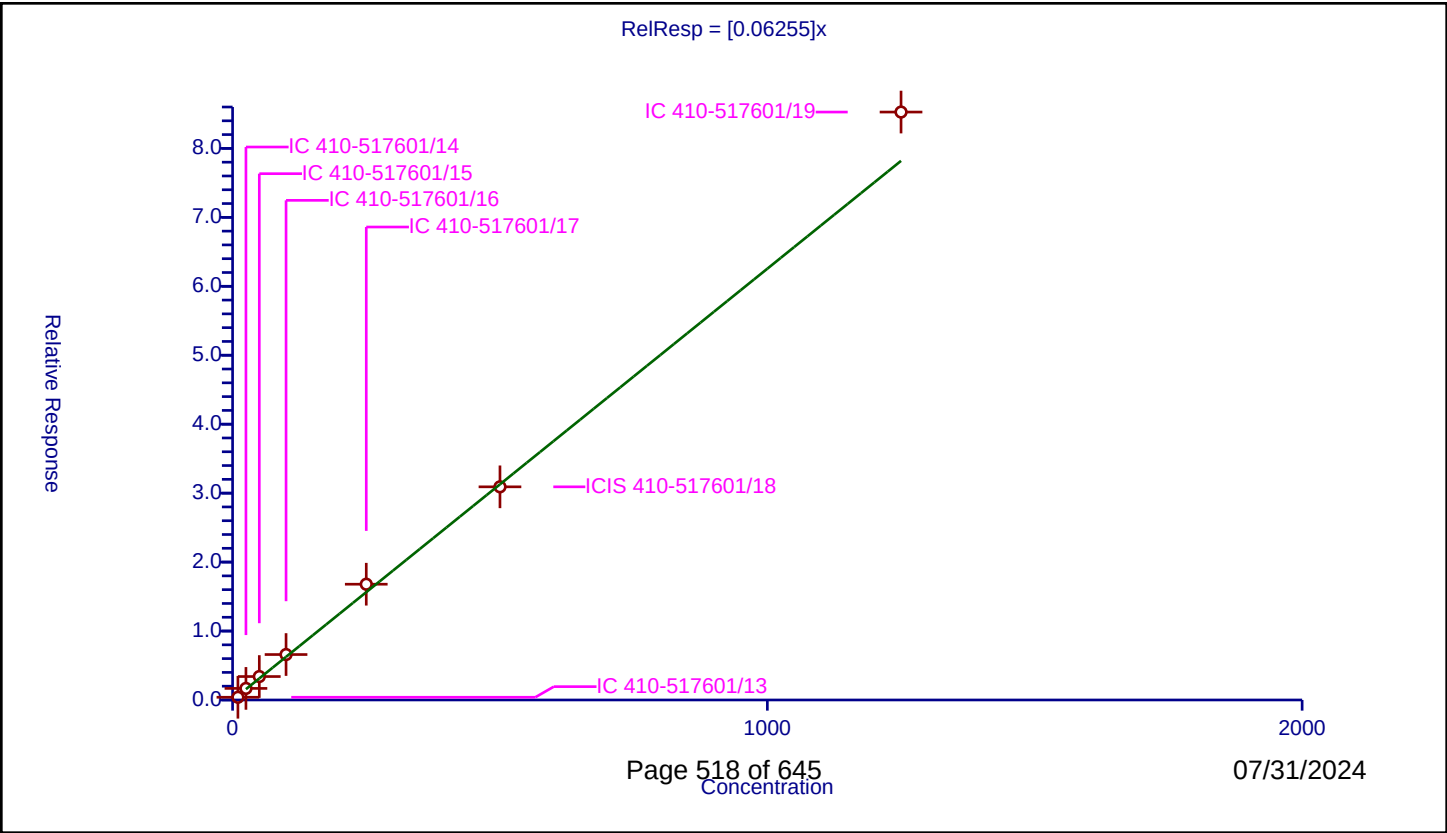
/ 1,4-Dioxane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06255

Error Coefficients	
Relative Standard Deviation:	16.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	10.0	0.395027	50.0	173659.0	0.039503	Y
2	IC 410-517601/14	25.0	1.680271	50.0	188422.0	0.067211	Y
3	IC 410-517601/15	50.0	3.401008	50.0	167862.0	0.06802	Y
4	IC 410-517601/16	100.0	6.592377	50.0	164311.0	0.065924	Y
5	IC 410-517601/17	250.0	16.790298	50.0	180780.0	0.067161	Y
6	ICIS 410-517601/18	500.0	30.915638	50.0	188699.0	0.061831	Y
7	IC 410-517601/19	1250.0	85.267651	50.0	188137.0	0.068214	Y



Calibration

/ Methyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

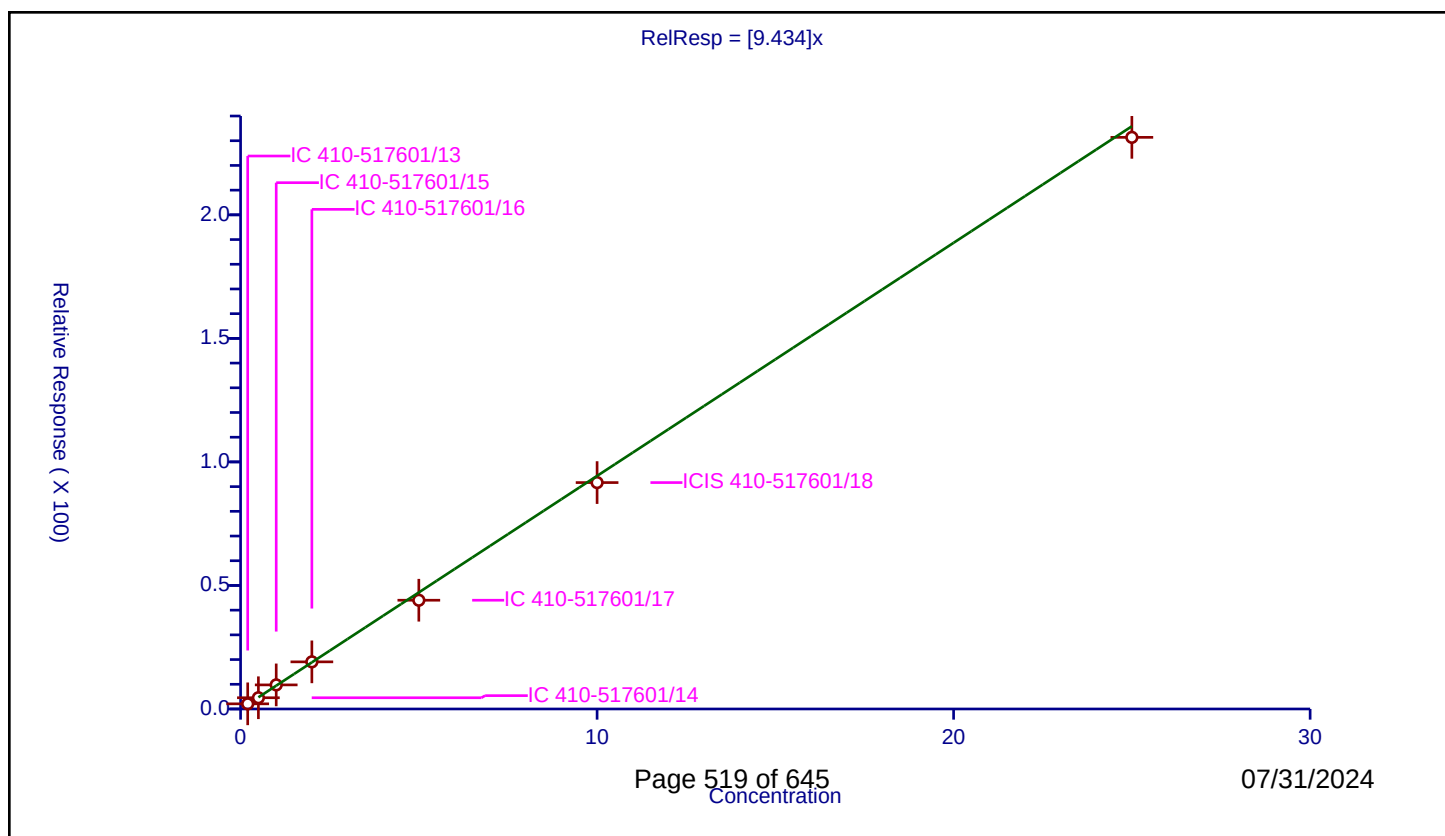
Curve Coefficients

Intercept: 0
Slope: 9.434

Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	2.083105	50.0	173659.0	10.415527	Y
2	IC 410-517601/14	0.5	4.550424	50.0	188422.0	9.100848	Y
3	IC 410-517601/15	1.0	9.756824	50.0	167862.0	9.756824	Y
4	IC 410-517601/16	2.0	19.081802	50.0	164311.0	9.540901	Y
5	IC 410-517601/17	5.0	44.01759	50.0	180780.0	8.803518	Y
6	ICIS 410-517601/18	10.0	91.635356	50.0	188699.0	9.163536	Y
7	IC 410-517601/19	25.0	231.368365	50.0	188137.0	9.254735	Y



Calibration

/ Dibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

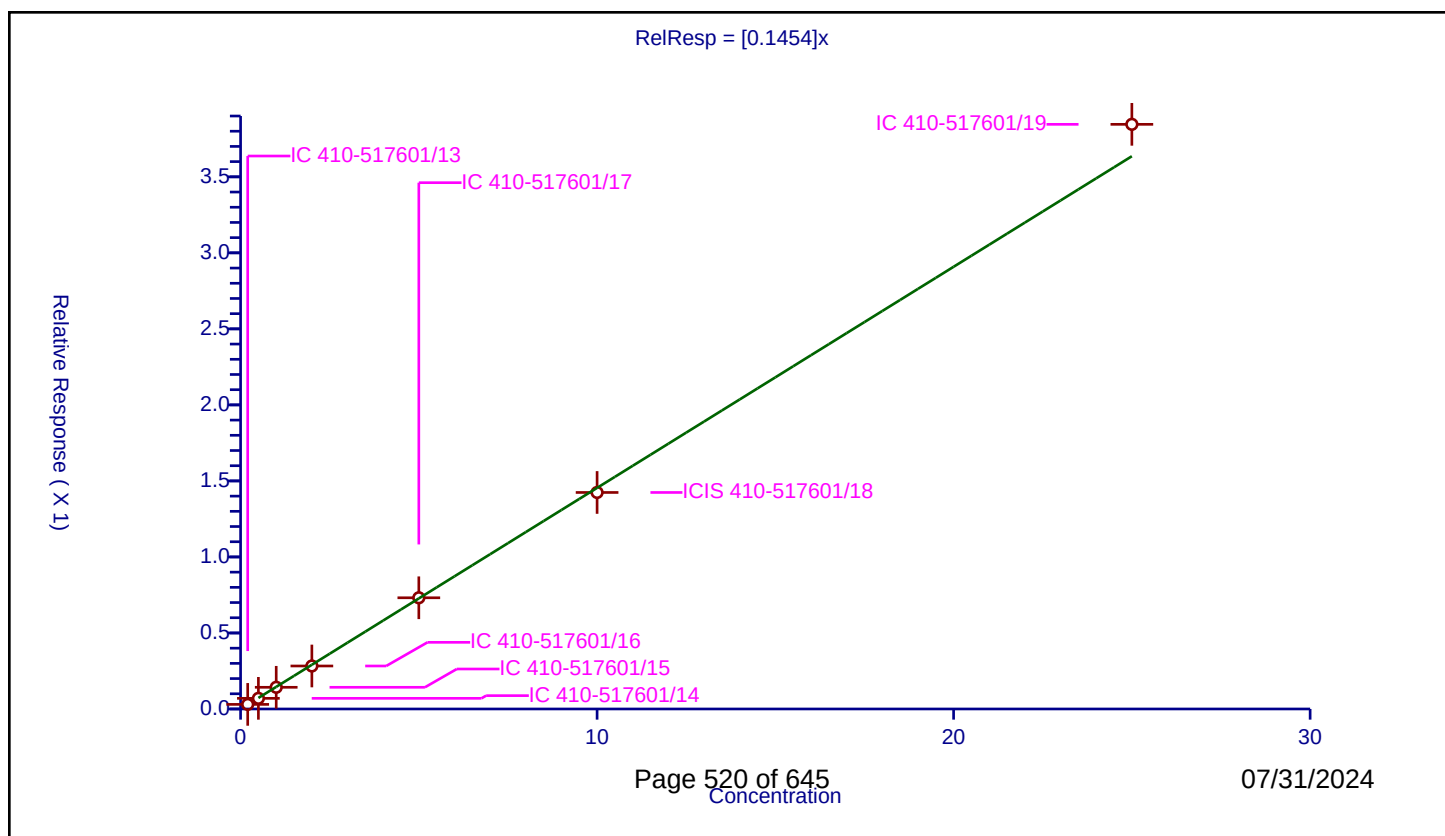
Curve Coefficients

Intercept: 0
Slope: 0.1454

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.030249	10.0	2259919.0	0.151244	Y
2	IC 410-517601/14	0.5	0.070029	10.0	2249339.0	0.140059	Y
3	IC 410-517601/15	1.0	0.142736	10.0	2225227.0	0.142736	Y
4	IC 410-517601/16	2.0	0.282773	10.0	2217927.0	0.141387	Y
5	IC 410-517601/17	5.0	0.731401	10.0	2250394.0	0.14628	Y
6	ICIS 410-517601/18	10.0	1.424093	10.0	2282400.0	0.142409	Y
7	IC 410-517601/19	25.0	3.845354	10.0	2233108.0	0.153814	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

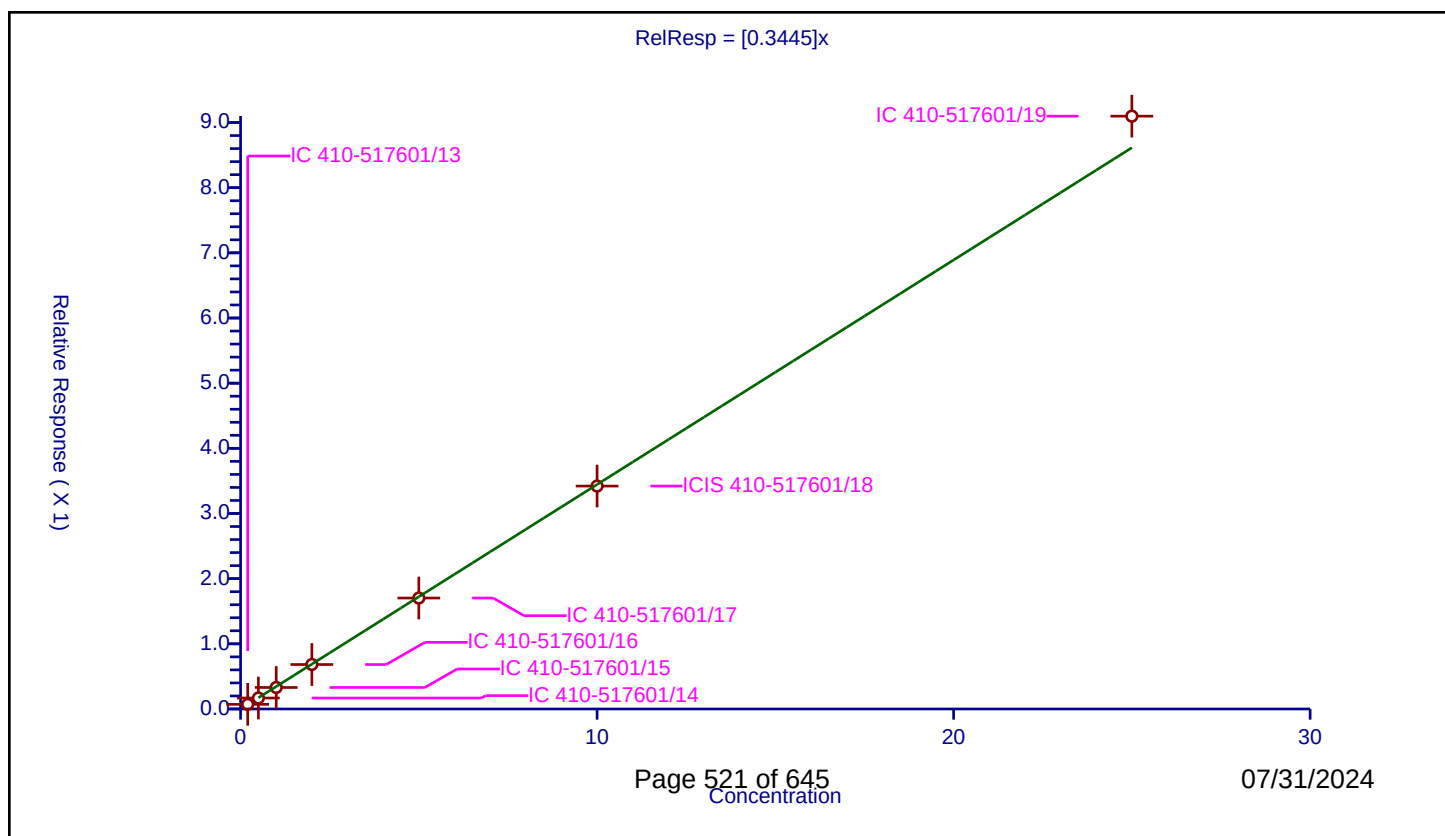
Curve Coefficients

Intercept: 0
Slope: 0.3445

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.071357	10.0	2259919.0	0.356783	Y
2	IC 410-517601/14	0.5	0.168503	10.0	2249339.0	0.337006	Y
3	IC 410-517601/15	1.0	0.330106	10.0	2225227.0	0.330106	Y
4	IC 410-517601/16	2.0	0.682543	10.0	2217927.0	0.341271	Y
5	IC 410-517601/17	5.0	1.702795	10.0	2250394.0	0.340559	Y
6	ICIS 410-517601/18	10.0	3.420838	10.0	2282400.0	0.342084	Y
7	IC 410-517601/19	25.0	9.097442	10.0	2233108.0	0.363898	Y



Calibration

/ 2-Nitropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

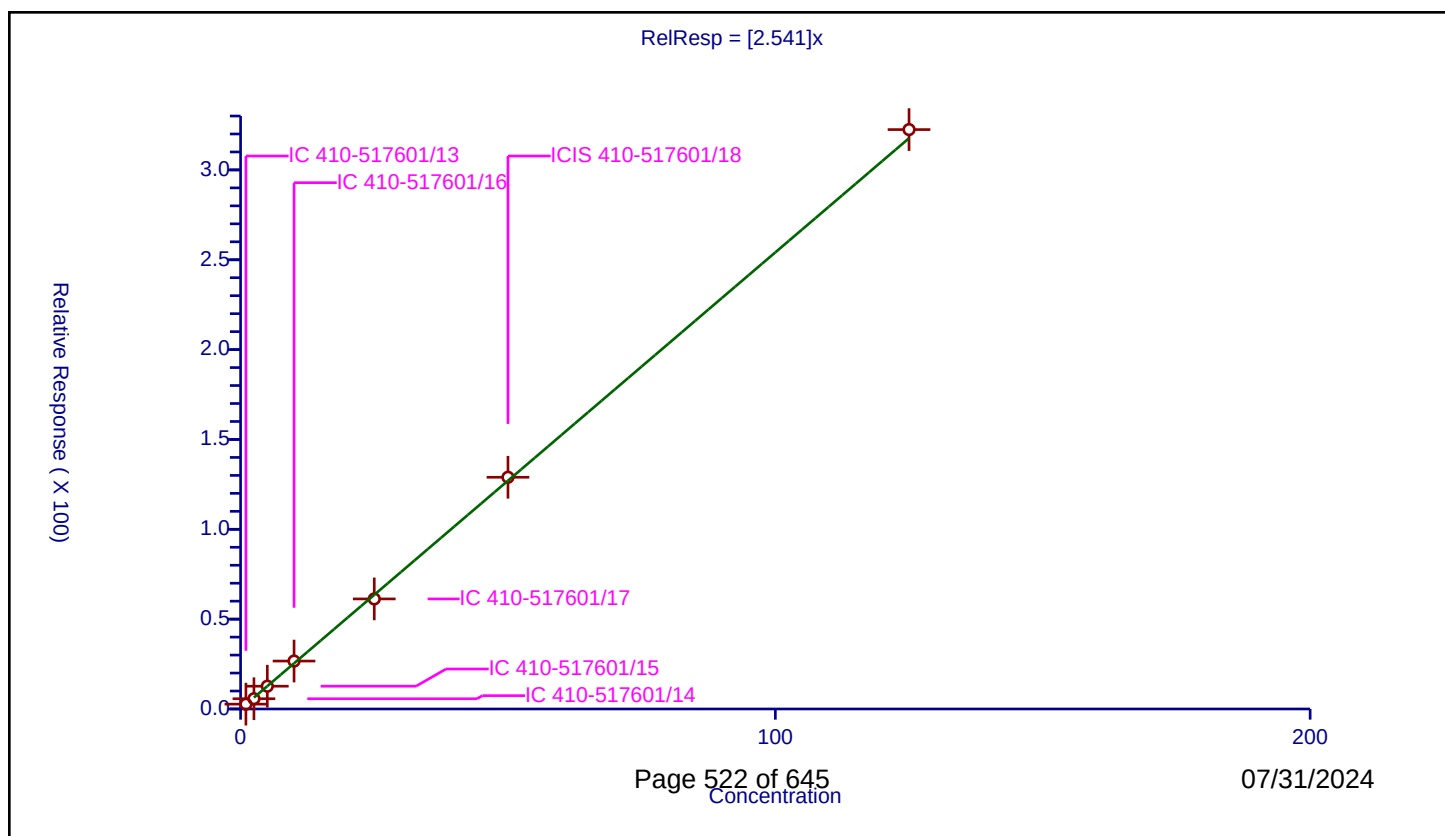
Curve Coefficients

Intercept: 0
 Slope: 2.541

Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	1.0	2.696088	50.0	173659.0	2.696088	Y
2	IC 410-517601/14	2.5	5.699706	50.0	188422.0	2.279882	Y
3	IC 410-517601/15	5.0	12.679165	50.0	167862.0	2.535833	Y
4	IC 410-517601/16	10.0	26.679894	50.0	164311.0	2.667989	Y
5	IC 410-517601/17	25.0	61.248755	50.0	180780.0	2.44995	Y
6	ICIS 410-517601/18	50.0	128.950869	50.0	188699.0	2.579017	Y
7	IC 410-517601/19	125.0	322.453053	50.0	188137.0	2.579624	Y



Calibration

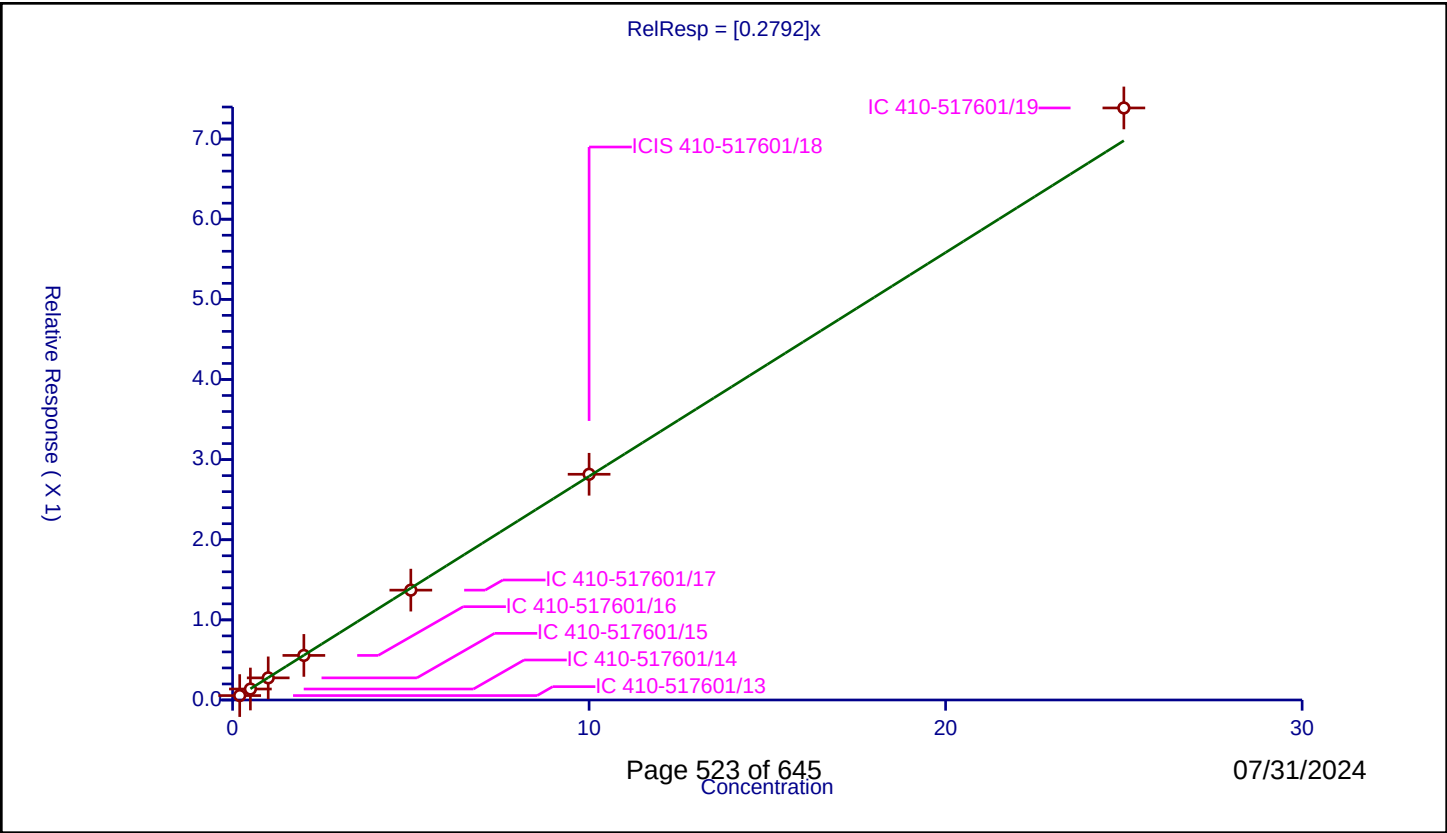
/ 1-Bromo-2-chloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2792
Error Coefficients	

Relative Standard Deviation: 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.055064	10.0	2259919.0	0.27532	Y
2	IC 410-517601/14	0.5	0.136774	10.0	2249339.0	0.273547	Y
3	IC 410-517601/15	1.0	0.276089	10.0	2225227.0	0.276089	Y
4	IC 410-517601/16	2.0	0.556091	10.0	2217927.0	0.278046	Y
5	IC 410-517601/17	5.0	1.370884	10.0	2250394.0	0.274177	Y
6	ICIS 410-517601/18	10.0	2.817004	10.0	2282400.0	0.2817	Y
7	IC 410-517601/19	25.0	7.388322	10.0	2233108.0	0.295533	Y



Calibration

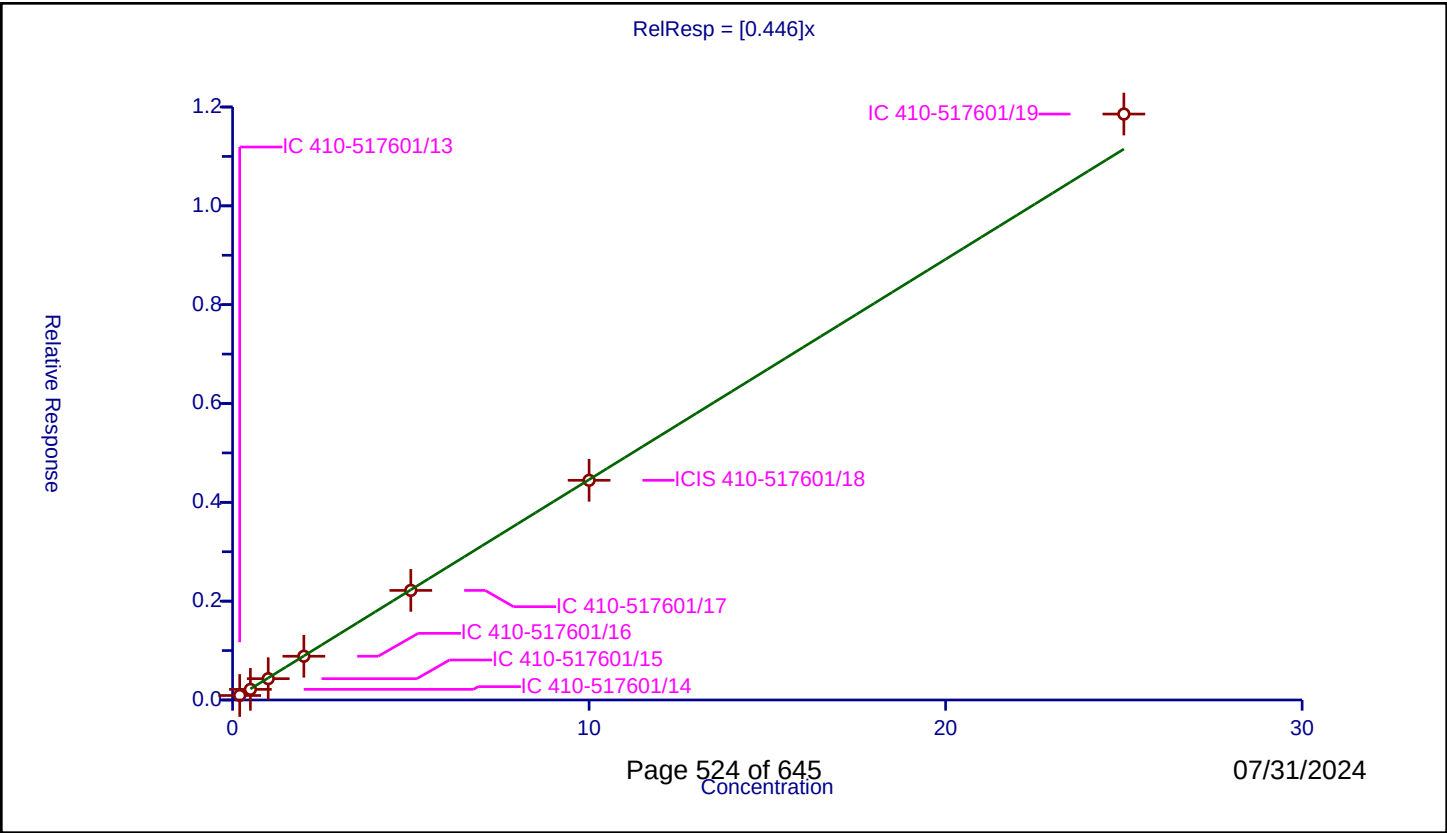
/ cis-1,3-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.446
Error Coefficients	

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.091065	10.0	2259919.0	0.455326	Y
2	IC 410-517601/14	0.5	0.21505	10.0	2249339.0	0.4301	Y
3	IC 410-517601/15	1.0	0.431349	10.0	2225227.0	0.431349	Y
4	IC 410-517601/16	2.0	0.885038	10.0	2217927.0	0.442519	Y
5	IC 410-517601/17	5.0	2.217709	10.0	2250394.0	0.443542	Y
6	ICIS 410-517601/18	10.0	4.445917	10.0	2282400.0	0.444592	Y
7	IC 410-517601/19	25.0	11.85751	10.0	2233108.0	0.4743	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

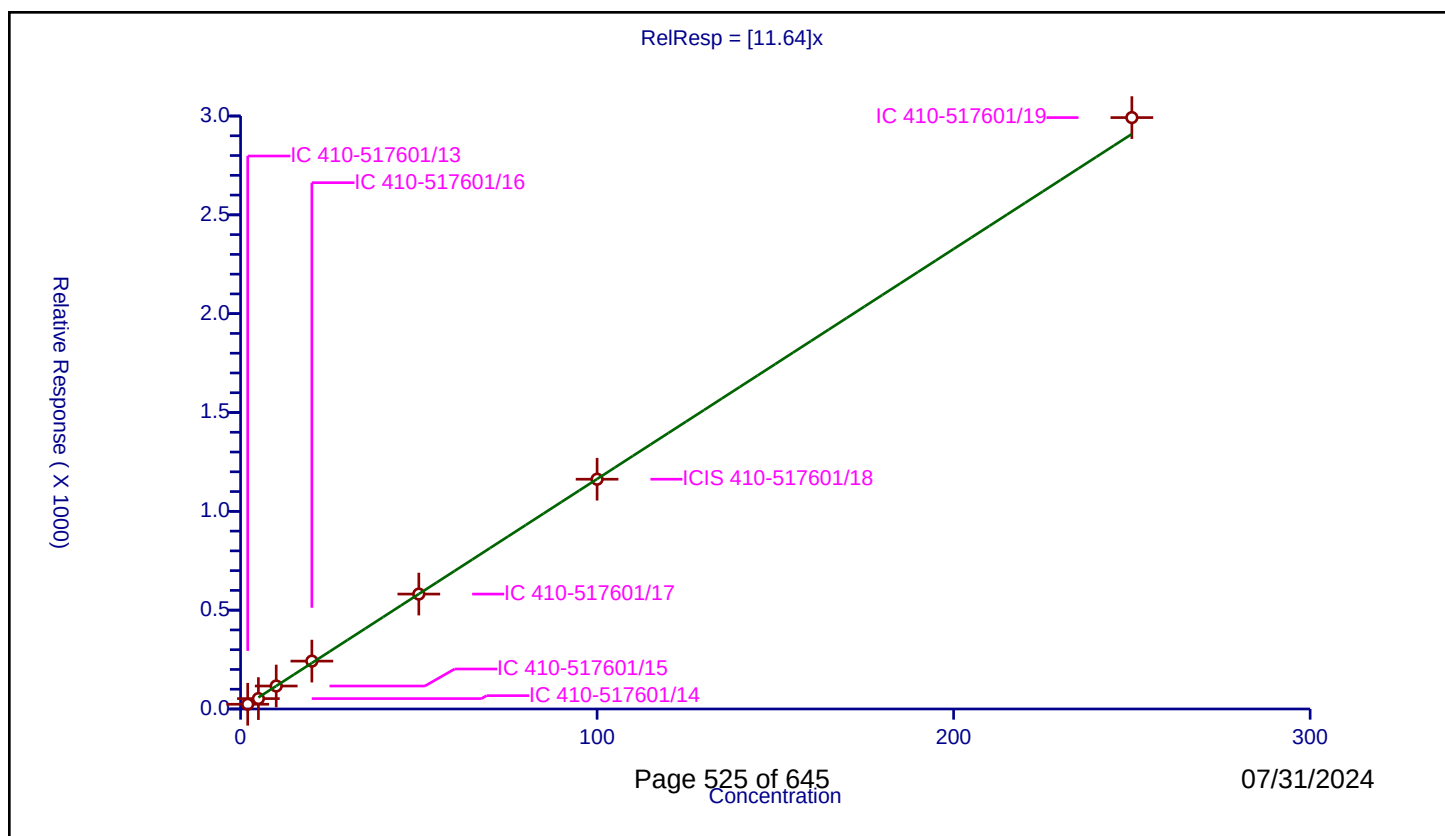
Curve Coefficients

Intercept: 0
Slope: 11.64

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	2.0	23.947506	50.0	173659.0	11.973753	Y
2	IC 410-517601/14	5.0	52.580909	50.0	188422.0	10.516182	Y
3	IC 410-517601/15	10.0	116.24519	50.0	167862.0	11.624519	Y
4	IC 410-517601/16	20.0	242.295403	50.0	164311.0	12.11477	Y
5	IC 410-517601/17	50.0	581.372939	50.0	180780.0	11.627459	Y
6	ICIS 410-517601/18	100.0	1162.526563	50.0	188699.0	11.625266	Y
7	IC 410-517601/19	250.0	2992.020974	50.0	188137.0	11.968084	Y



Calibration

/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

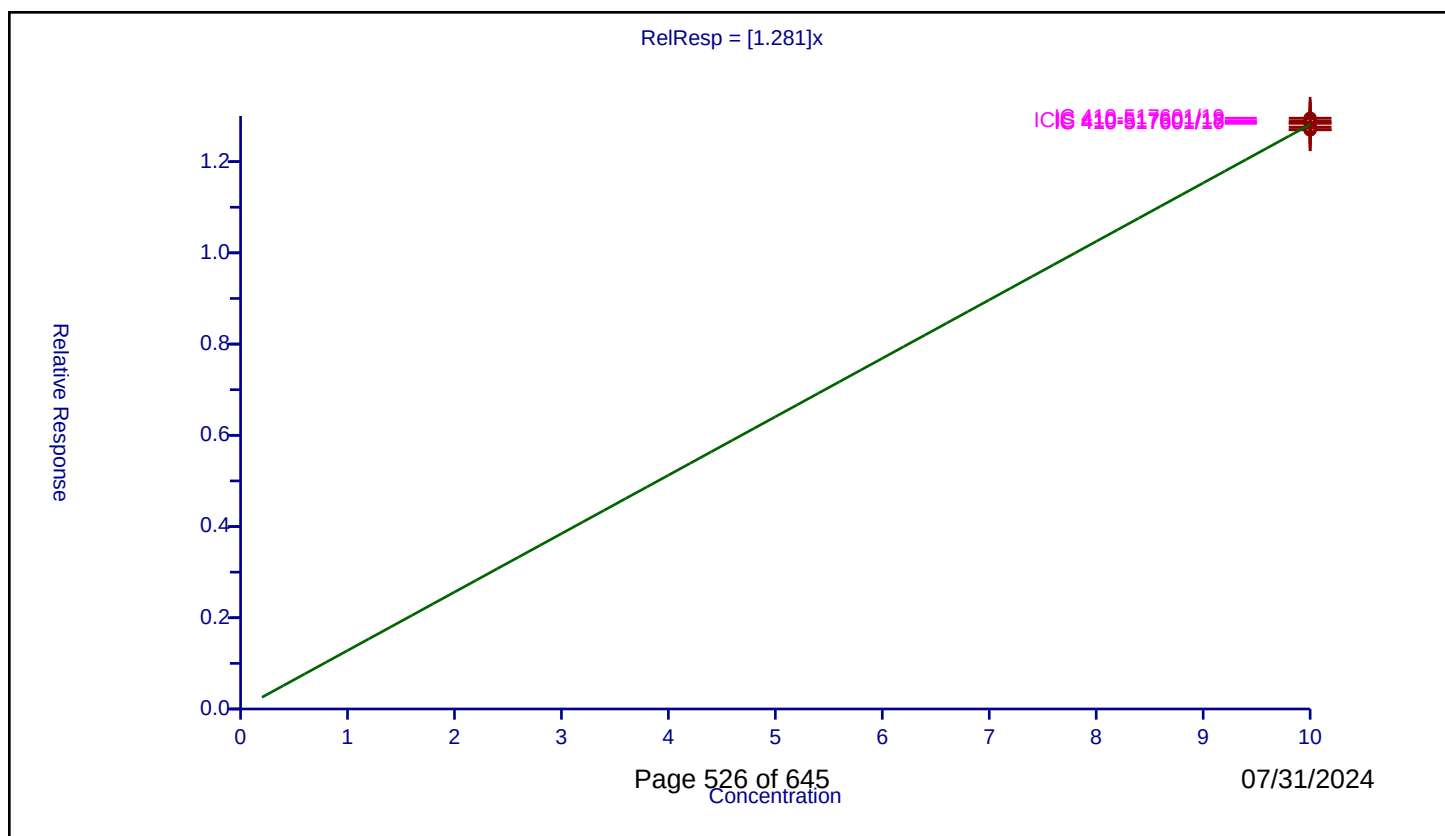
Curve Coefficients

Intercept: 0
 Slope: 1.281

Error Coefficients

Relative Standard Deviation: 0.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	10.0	12.758369	10.0	1782883.0	1.275837	Y
2	IC 410-517601/14	10.0	12.699329	10.0	1784584.0	1.269933	Y
3	IC 410-517601/15	10.0	12.698005	10.0	1748651.0	1.269801	Y
4	IC 410-517601/16	10.0	12.849282	10.0	1740765.0	1.284928	Y
5	IC 410-517601/17	10.0	12.8405	10.0	1774642.0	1.28405	Y
6	ICIS 410-517601/18	10.0	12.892911	10.0	1791303.0	1.289291	Y
7	IC 410-517601/19	10.0	12.952679	10.0	1739935.0	1.295268	Y



Calibration

/ Toluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

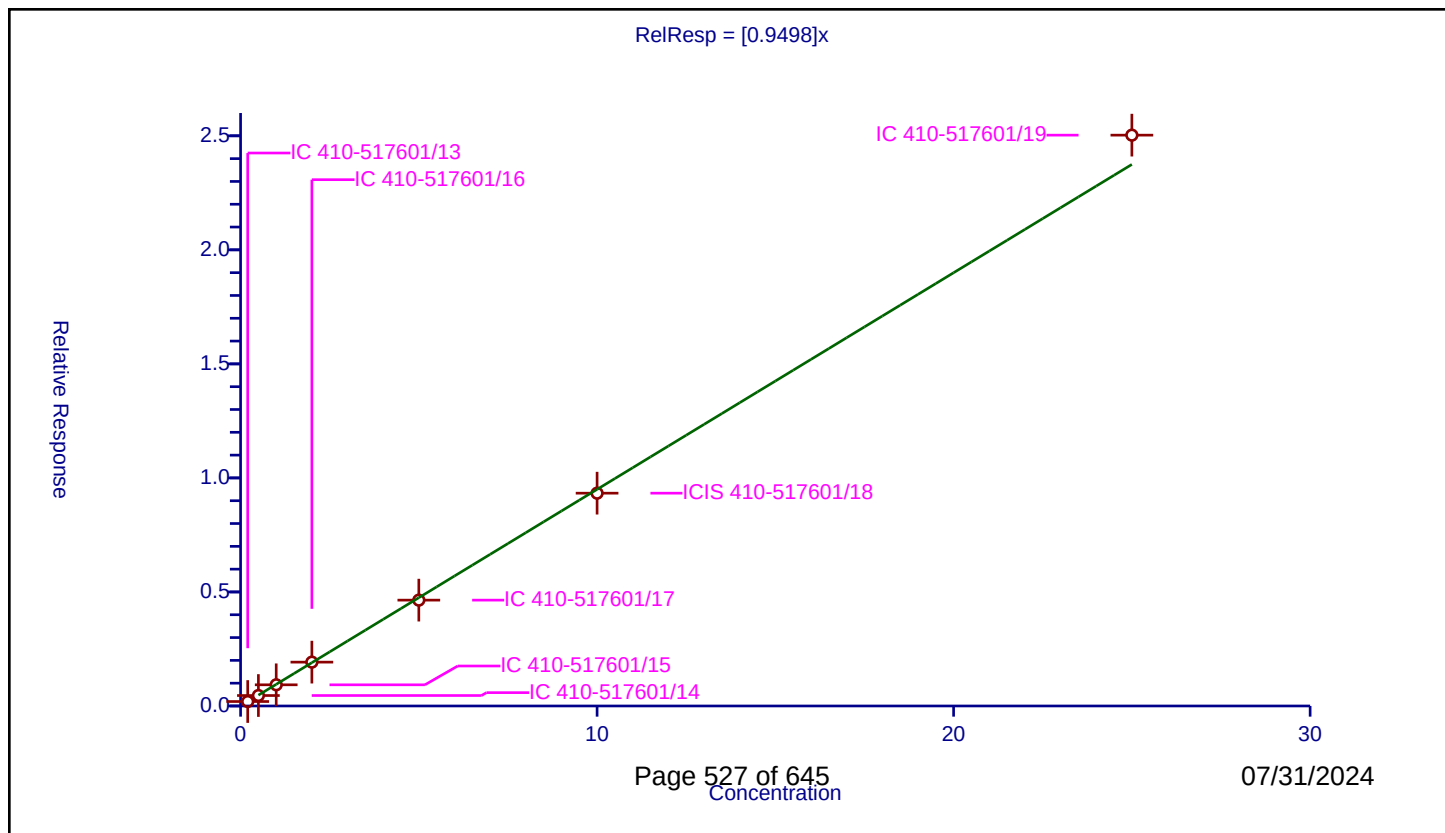
Curve Coefficients

Intercept: 0
 Slope: 0.9498

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.195767	10.0	1782883.0	0.978836	Y
2	IC 410-517601/14	0.5	0.458583	10.0	1784584.0	0.917166	Y
3	IC 410-517601/15	1.0	0.929213	10.0	1748651.0	0.929213	Y
4	IC 410-517601/16	2.0	1.922253	10.0	1740765.0	0.961126	Y
5	IC 410-517601/17	5.0	4.641697	10.0	1774642.0	0.928339	Y
6	ICIS 410-517601/18	10.0	9.33094	10.0	1791303.0	0.933094	Y
7	IC 410-517601/19	25.0	25.029061	10.0	1739935.0	1.001162	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

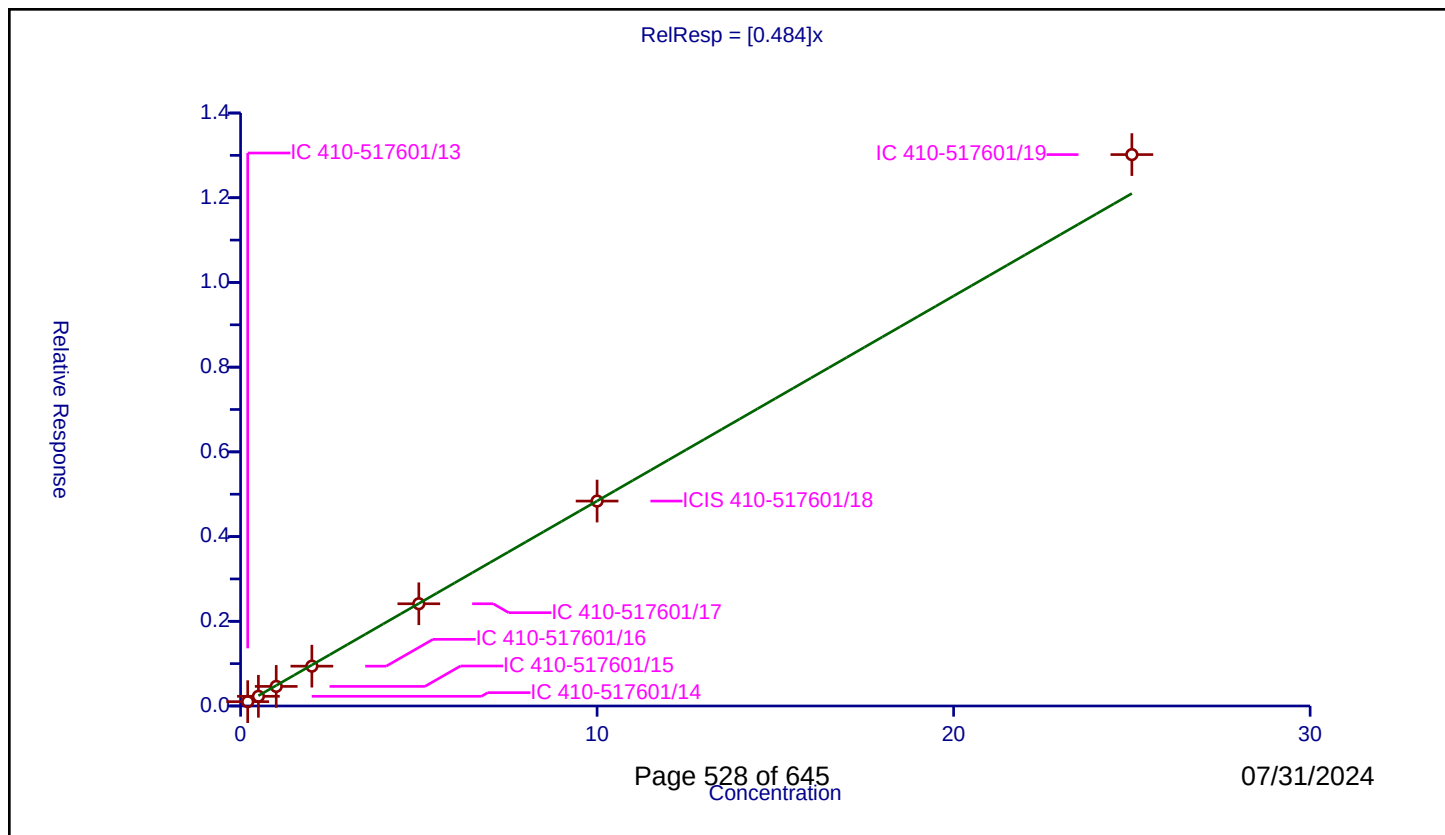
Curve Coefficients

Intercept: 0
Slope: 0.484

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.102071	10.0	1782883.0	0.510353	Y
2	IC 410-517601/14	0.5	0.228787	10.0	1784584.0	0.457574	Y
3	IC 410-517601/15	1.0	0.462665	10.0	1748651.0	0.462665	Y
4	IC 410-517601/16	2.0	0.940271	10.0	1740765.0	0.470135	Y
5	IC 410-517601/17	5.0	2.413777	10.0	1774642.0	0.482755	Y
6	ICIS 410-517601/18	10.0	4.837964	10.0	1791303.0	0.483796	Y
7	IC 410-517601/19	25.0	13.018762	10.0	1739935.0	0.52075	Y



Calibration

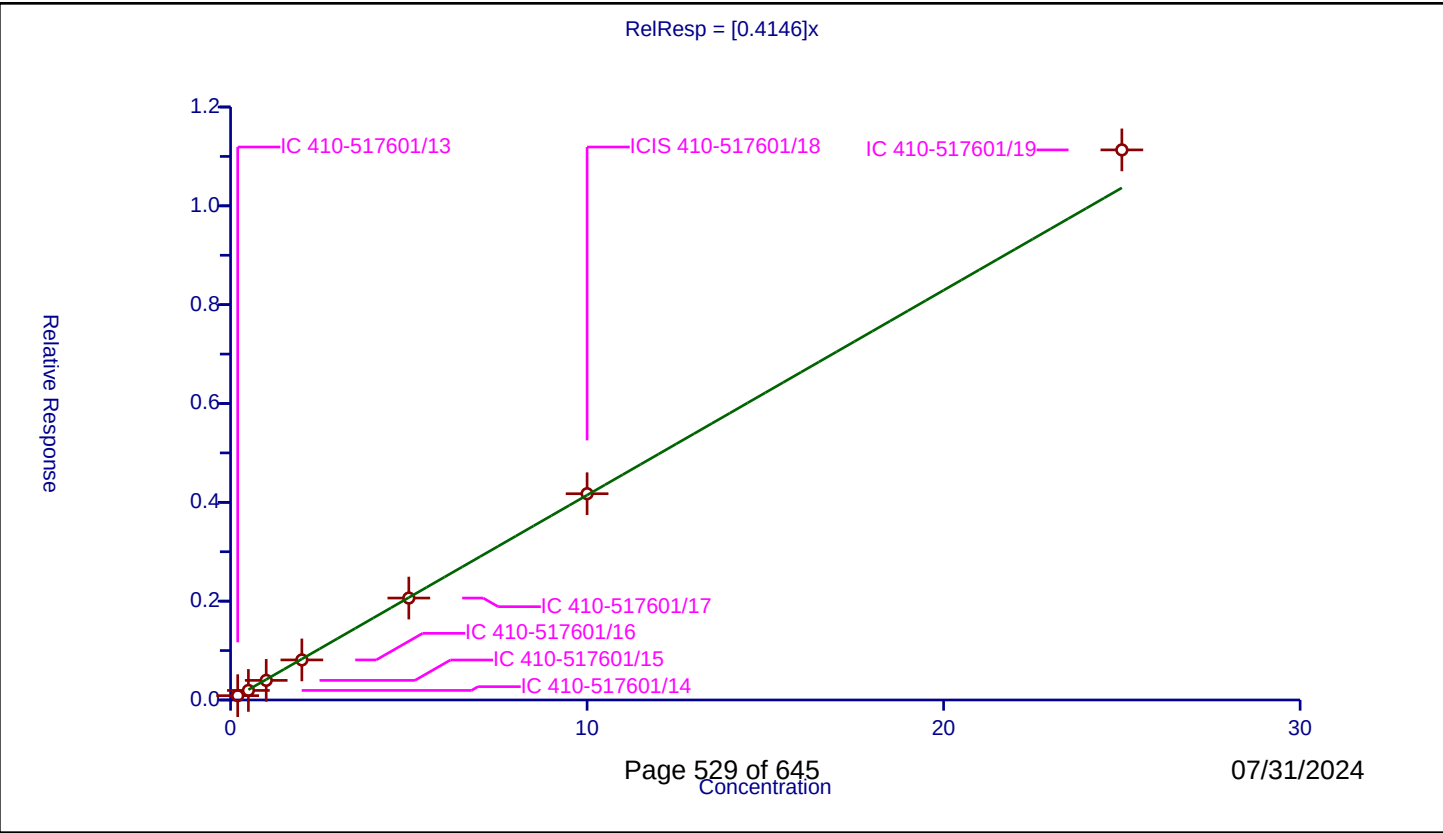
/ Ethyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4146

Error Coefficients	
Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.087493	10.0	1782883.0	0.437466	Y
2	IC 410-517601/14	0.5	0.19335	10.0	1784584.0	0.386701	Y
3	IC 410-517601/15	1.0	0.397037	10.0	1748651.0	0.397037	Y
4	IC 410-517601/16	2.0	0.810948	10.0	1740765.0	0.405474	Y
5	IC 410-517601/17	5.0	2.062794	10.0	1774642.0	0.412559	Y
6	ICIS 410-517601/18	10.0	4.174397	10.0	1791303.0	0.41744	Y
7	IC 410-517601/19	25.0	11.132117	10.0	1739935.0	0.445285	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

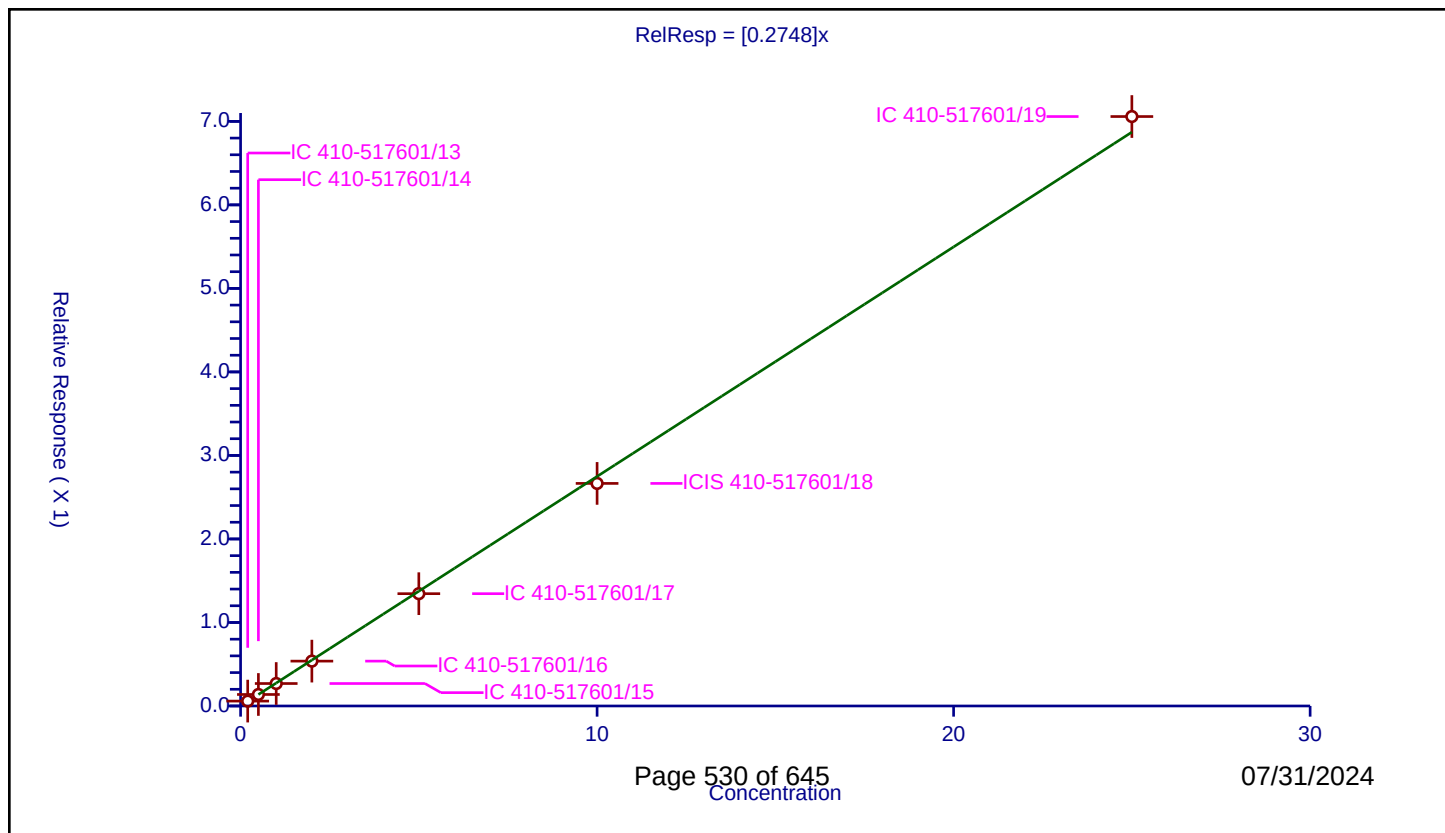
Curve Coefficients

Intercept: 0
Slope: 0.2748

Error Coefficients

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.058534	10.0	1782883.0	0.292672	Y
2	IC 410-517601/14	0.5	0.13792	10.0	1784584.0	0.27584	Y
3	IC 410-517601/15	1.0	0.26903	10.0	1748651.0	0.26903	Y
4	IC 410-517601/16	2.0	0.537109	10.0	1740765.0	0.268554	Y
5	IC 410-517601/17	5.0	1.344835	10.0	1774642.0	0.268967	Y
6	ICIS 410-517601/18	10.0	2.664932	10.0	1791303.0	0.266493	Y
7	IC 410-517601/19	25.0	7.057976	10.0	1739935.0	0.282319	Y



Calibration

/ Tetrachloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

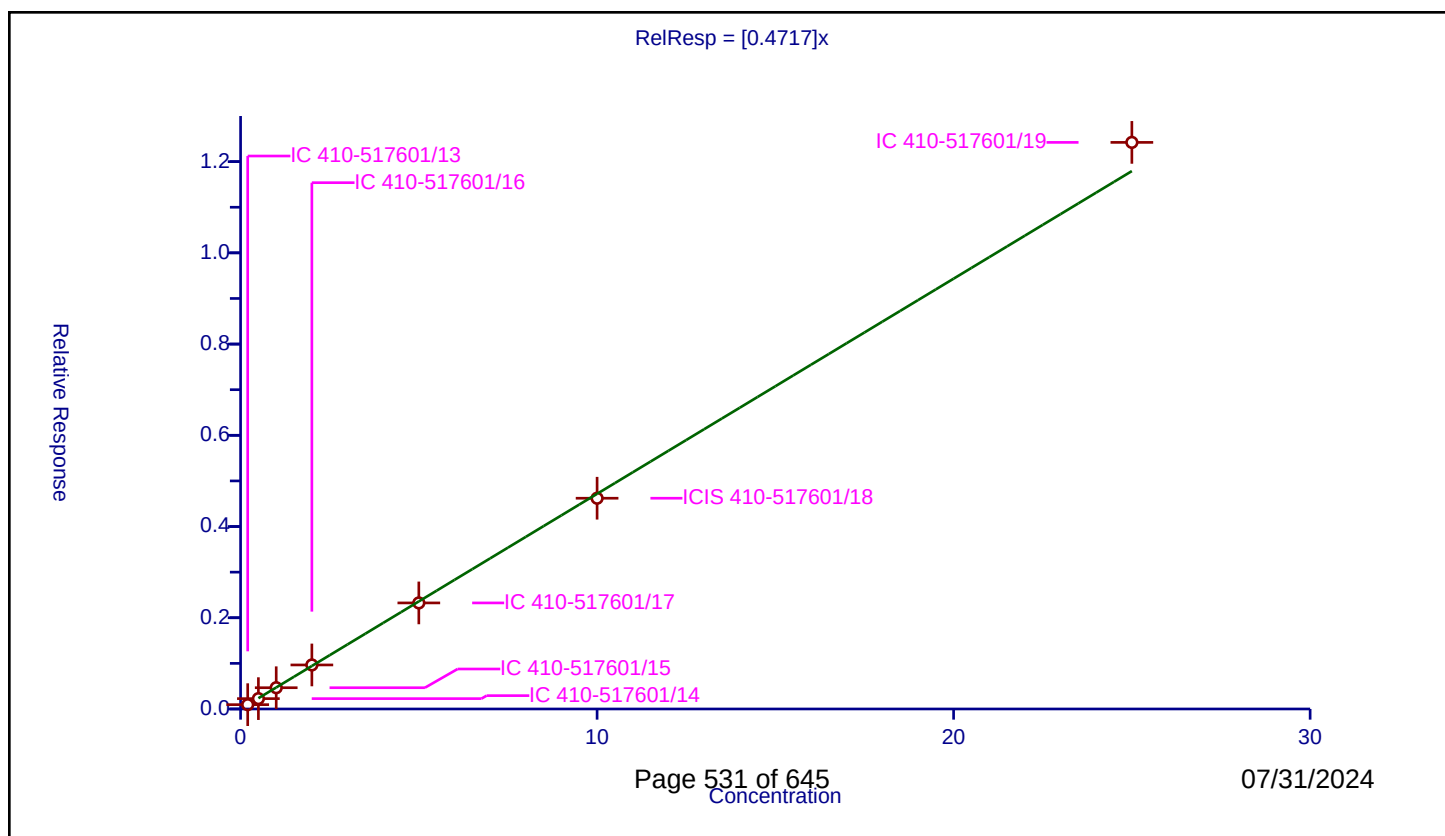
Curve Coefficients

Intercept: 0
Slope: 0.4717

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.094874	10.0	1782883.0	0.474372	Y
2	IC 410-517601/14	0.5	0.227392	10.0	1784584.0	0.454784	Y
3	IC 410-517601/15	1.0	0.466085	10.0	1748651.0	0.466085	Y
4	IC 410-517601/16	2.0	0.965242	10.0	1740765.0	0.482621	Y
5	IC 410-517601/17	5.0	2.325624	10.0	1774642.0	0.465125	Y
6	ICIS 410-517601/18	10.0	4.62067	10.0	1791303.0	0.462067	Y
7	IC 410-517601/19	25.0	12.421596	10.0	1739935.0	0.496864	Y

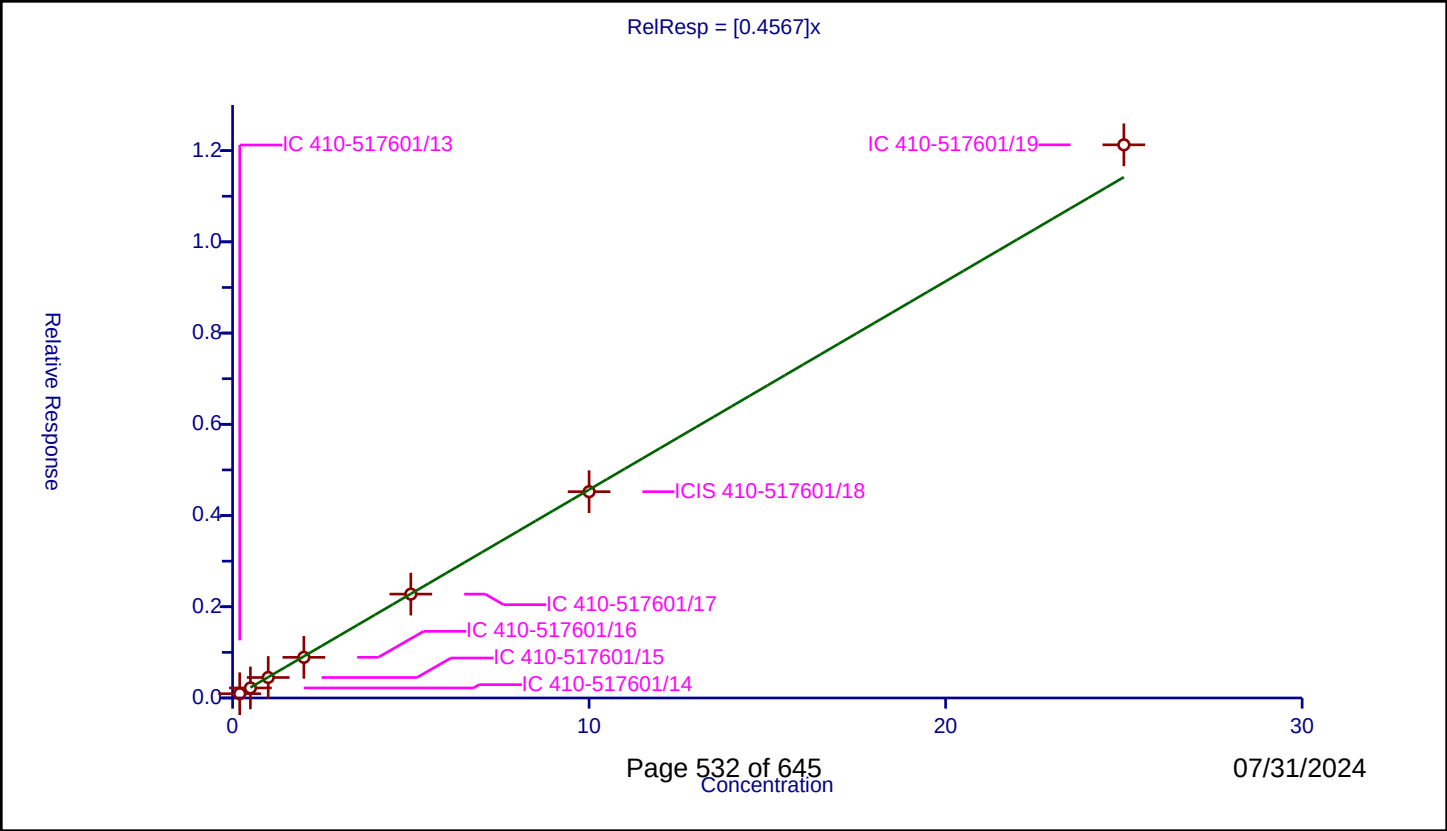


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4567

Error Coefficients	
Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.093809	10.0	1782883.0	0.469044	Y
2	IC 410-517601/14	0.5	0.22032	10.0	1784584.0	0.440641	Y
3	IC 410-517601/15	1.0	0.449038	10.0	1748651.0	0.449038	Y
4	IC 410-517601/16	2.0	0.891091	10.0	1740765.0	0.445545	Y
5	IC 410-517601/17	5.0	2.277366	10.0	1774642.0	0.455473	Y
6	ICIS 410-517601/18	10.0	4.52292	10.0	1791303.0	0.452292	Y
7	IC 410-517601/19	25.0	12.127384	10.0	1739935.0	0.485095	Y



Calibration

/ 2-Hexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

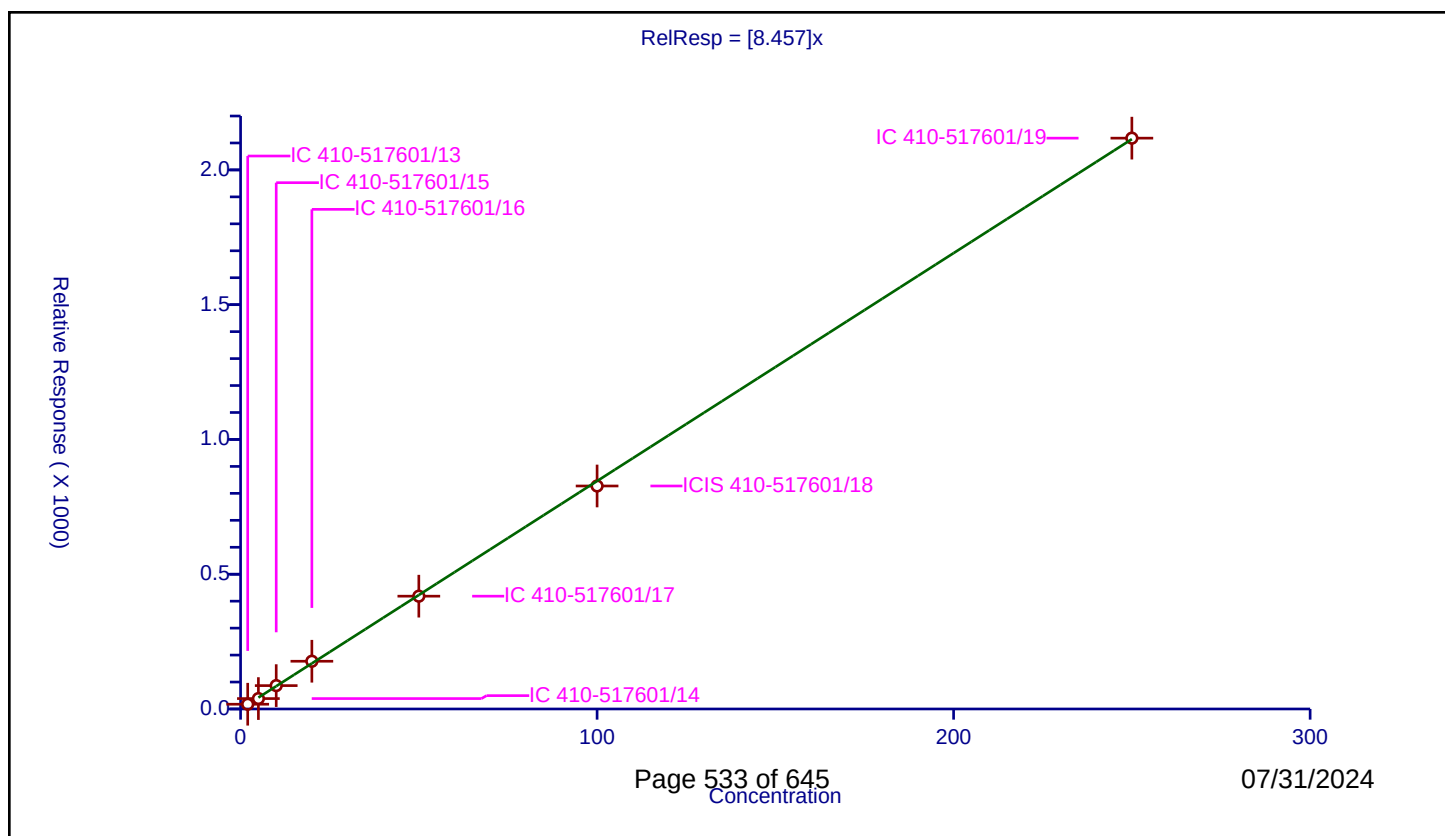
Curve Coefficients

Intercept: 0
Slope: 8.457

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	2.0	17.644925	50.0	173659.0	8.822462	Y
2	IC 410-517601/14	5.0	38.622878	50.0	188422.0	7.724576	Y
3	IC 410-517601/15	10.0	86.74566	50.0	167862.0	8.674566	Y
4	IC 410-517601/16	20.0	177.190206	50.0	164311.0	8.85951	Y
5	IC 410-517601/17	50.0	418.553767	50.0	180780.0	8.371075	Y
6	ICIS 410-517601/18	100.0	827.36766	50.0	188699.0	8.273677	Y
7	IC 410-517601/19	250.0	2117.910884	50.0	188137.0	8.471644	Y



Calibration

/ Chlorodibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

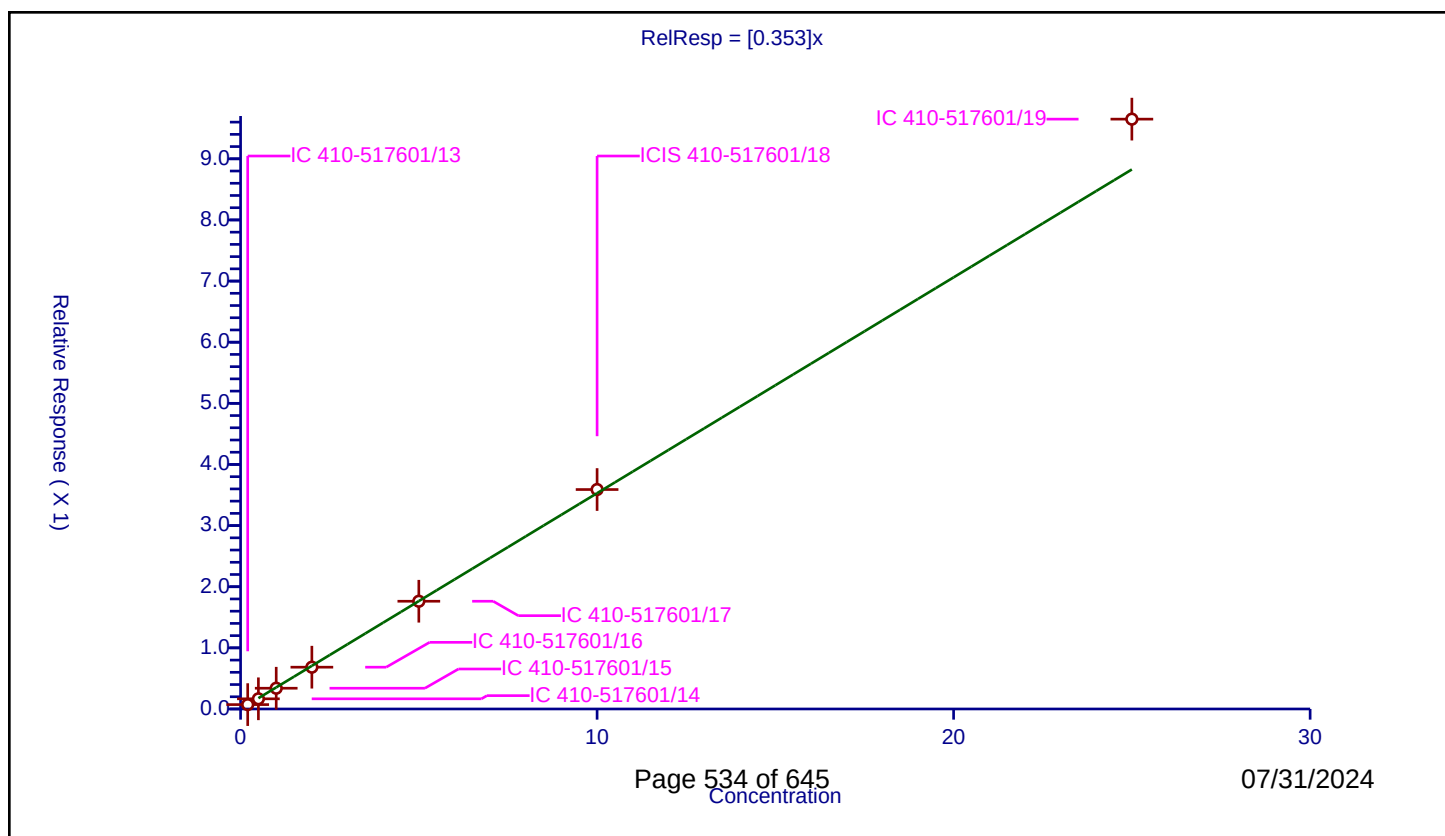
Curve Coefficients

Intercept: 0
Slope: 0.353

Error Coefficients

Relative Standard Deviation: 5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.07176	10.0	1782883.0	0.358801	Y
2	IC 410-517601/14	0.5	0.166633	10.0	1784584.0	0.333265	Y
3	IC 410-517601/15	1.0	0.339793	10.0	1748651.0	0.339793	Y
4	IC 410-517601/16	2.0	0.683809	10.0	1740765.0	0.341904	Y
5	IC 410-517601/17	5.0	1.762451	10.0	1774642.0	0.35249	Y
6	ICIS 410-517601/18	10.0	3.590068	10.0	1791303.0	0.359007	Y
7	IC 410-517601/19	25.0	9.648832	10.0	1739935.0	0.385953	Y



Calibration

/ Ethylene Dibromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

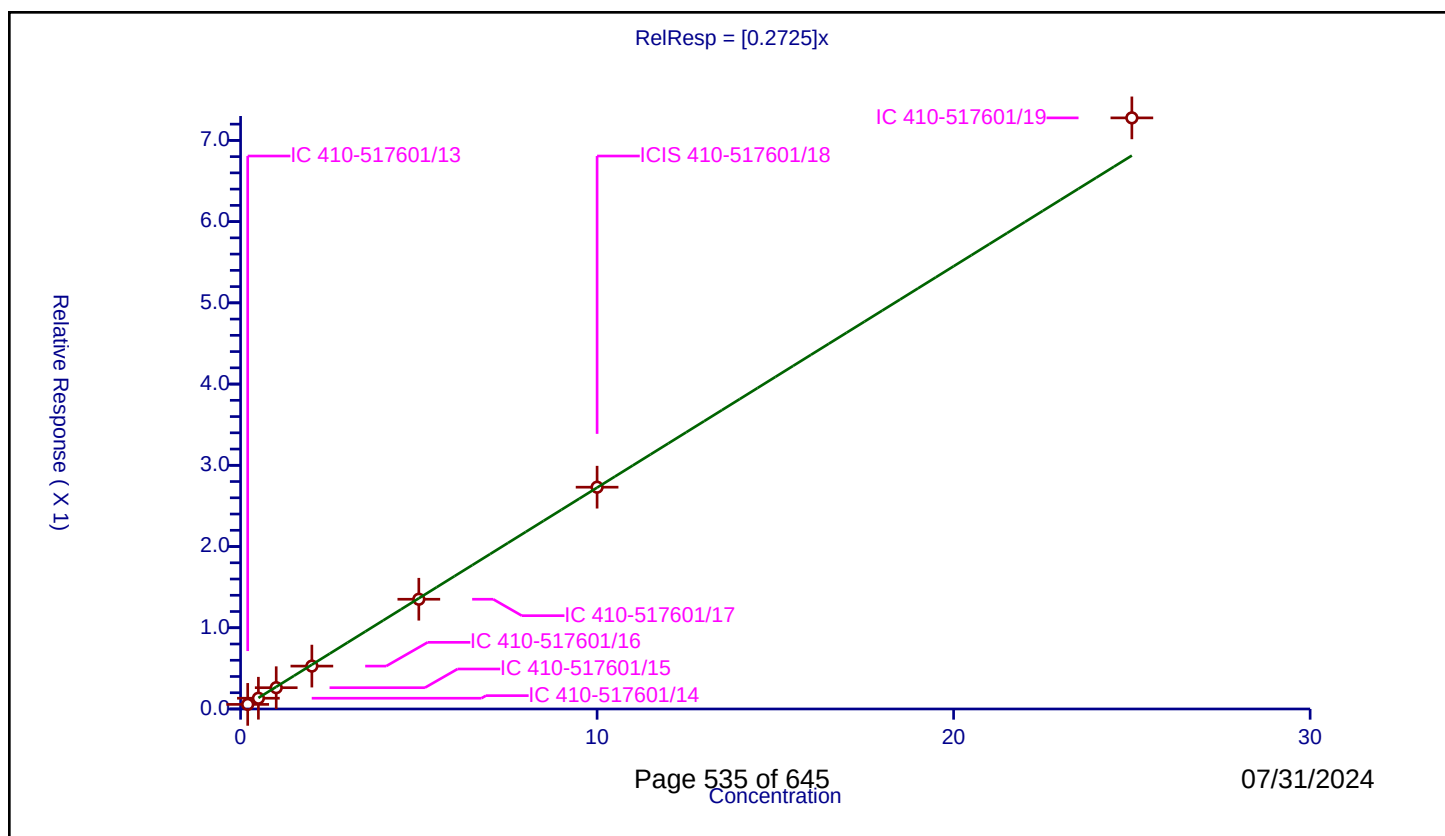
Curve Coefficients

Intercept: 0
Slope: 0.2725

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.05647	10.0	1782883.0	0.282352	Y
2	IC 410-517601/14	0.5	0.132406	10.0	1784584.0	0.264812	Y
3	IC 410-517601/15	1.0	0.262128	10.0	1748651.0	0.262128	Y
4	IC 410-517601/16	2.0	0.528078	10.0	1740765.0	0.264039	Y
5	IC 410-517601/17	5.0	1.351033	10.0	1774642.0	0.270207	Y
6	ICIS 410-517601/18	10.0	2.730526	10.0	1791303.0	0.273053	Y
7	IC 410-517601/19	25.0	7.277036	10.0	1739935.0	0.291081	Y



Calibration

/ 1-Chlorohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

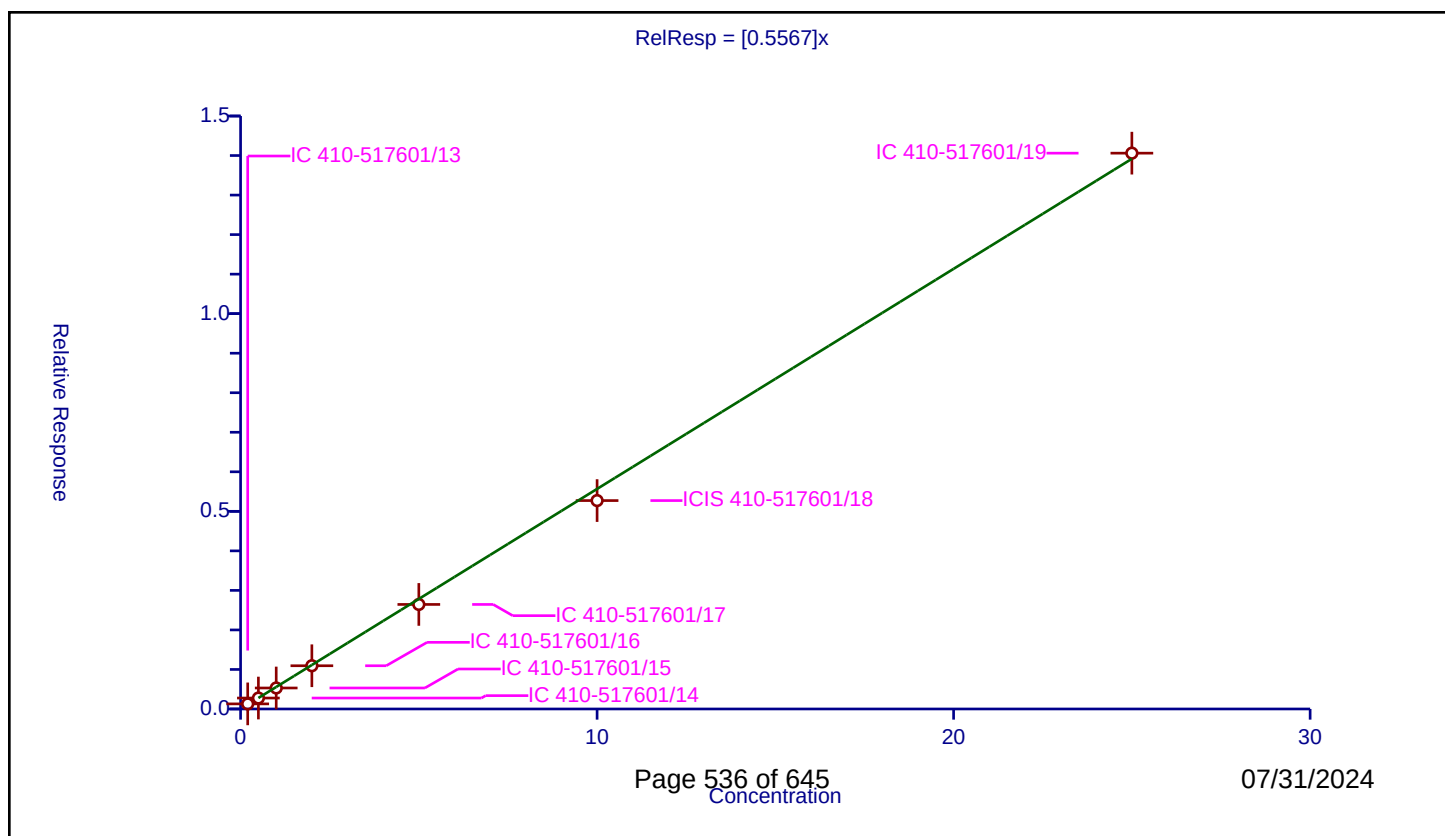
Curve Coefficients

Intercept: 0
Slope: 0.5567

Error Coefficients

Relative Standard Deviation: 7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.12933	10.0	1782883.0	0.646649	Y
2	IC 410-517601/14	0.5	0.276692	10.0	1784584.0	0.553384	Y
3	IC 410-517601/15	1.0	0.531347	10.0	1748651.0	0.531347	Y
4	IC 410-517601/16	2.0	1.093852	10.0	1740765.0	0.546926	Y
5	IC 410-517601/17	5.0	2.644731	10.0	1774642.0	0.528946	Y
6	ICIS 410-517601/18	10.0	5.272402	10.0	1791303.0	0.52724	Y
7	IC 410-517601/19	25.0	14.060163	10.0	1739935.0	0.562407	Y



Calibration

/ Chlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

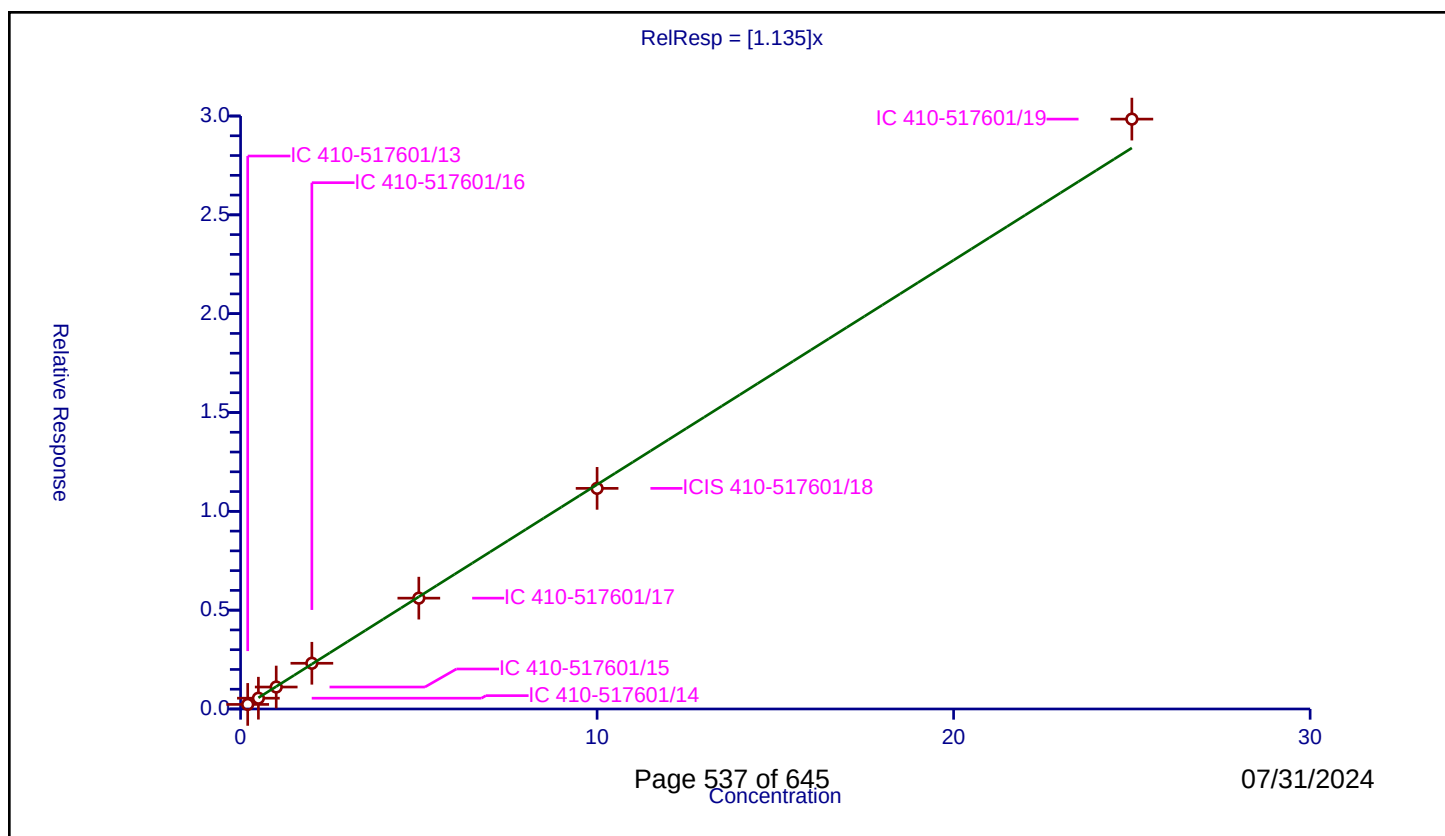
Curve Coefficients

Intercept: 0
Slope: 1.135

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.231412	10.0	1782883.0	1.157059	Y
2	IC 410-517601/14	0.5	0.545746	10.0	1784584.0	1.091492	Y
3	IC 410-517601/15	1.0	1.110668	10.0	1748651.0	1.110668	Y
4	IC 410-517601/16	2.0	2.313351	10.0	1740765.0	1.156675	Y
5	IC 410-517601/17	5.0	5.6077	10.0	1774642.0	1.12154	Y
6	ICIS 410-517601/18	10.0	11.161719	10.0	1791303.0	1.116172	Y
7	IC 410-517601/19	25.0	29.843816	10.0	1739935.0	1.193753	Y



Calibration

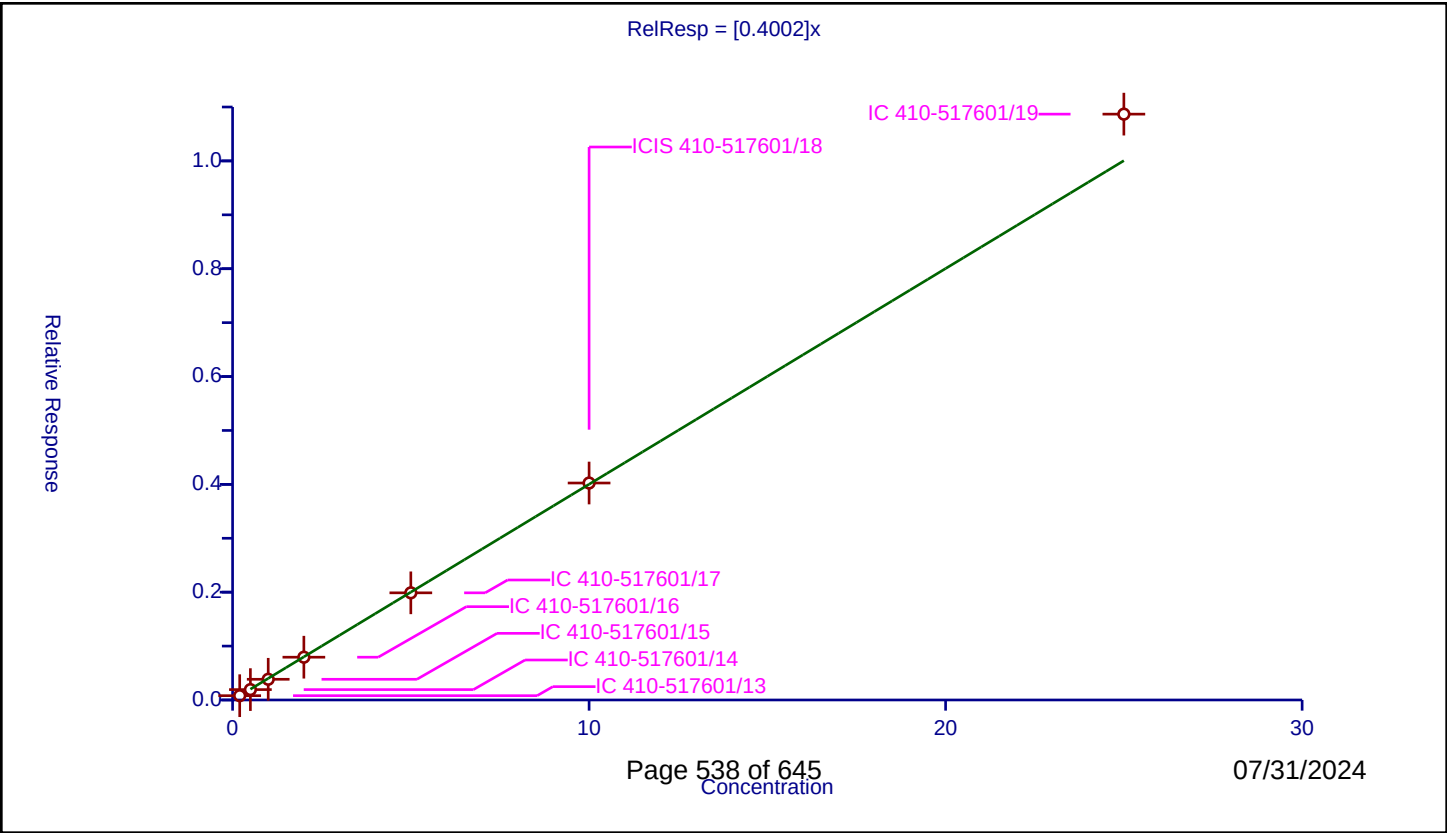
/ 1,1,1,2-Tetrachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4002
Error Coefficients	

Relative Standard Deviation: 4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.080011	10.0	1782883.0	0.400054	Y
2	IC 410-517601/14	0.5	0.192835	10.0	1784584.0	0.38567	Y
3	IC 410-517601/15	1.0	0.384022	10.0	1748651.0	0.384022	Y
4	IC 410-517601/16	2.0	0.793519	10.0	1740765.0	0.396759	Y
5	IC 410-517601/17	5.0	1.987843	10.0	1774642.0	0.397569	Y
6	ICIS 410-517601/18	10.0	4.024757	10.0	1791303.0	0.402476	Y
7	IC 410-517601/19	25.0	10.867757	10.0	1739935.0	0.43471	Y



Calibration

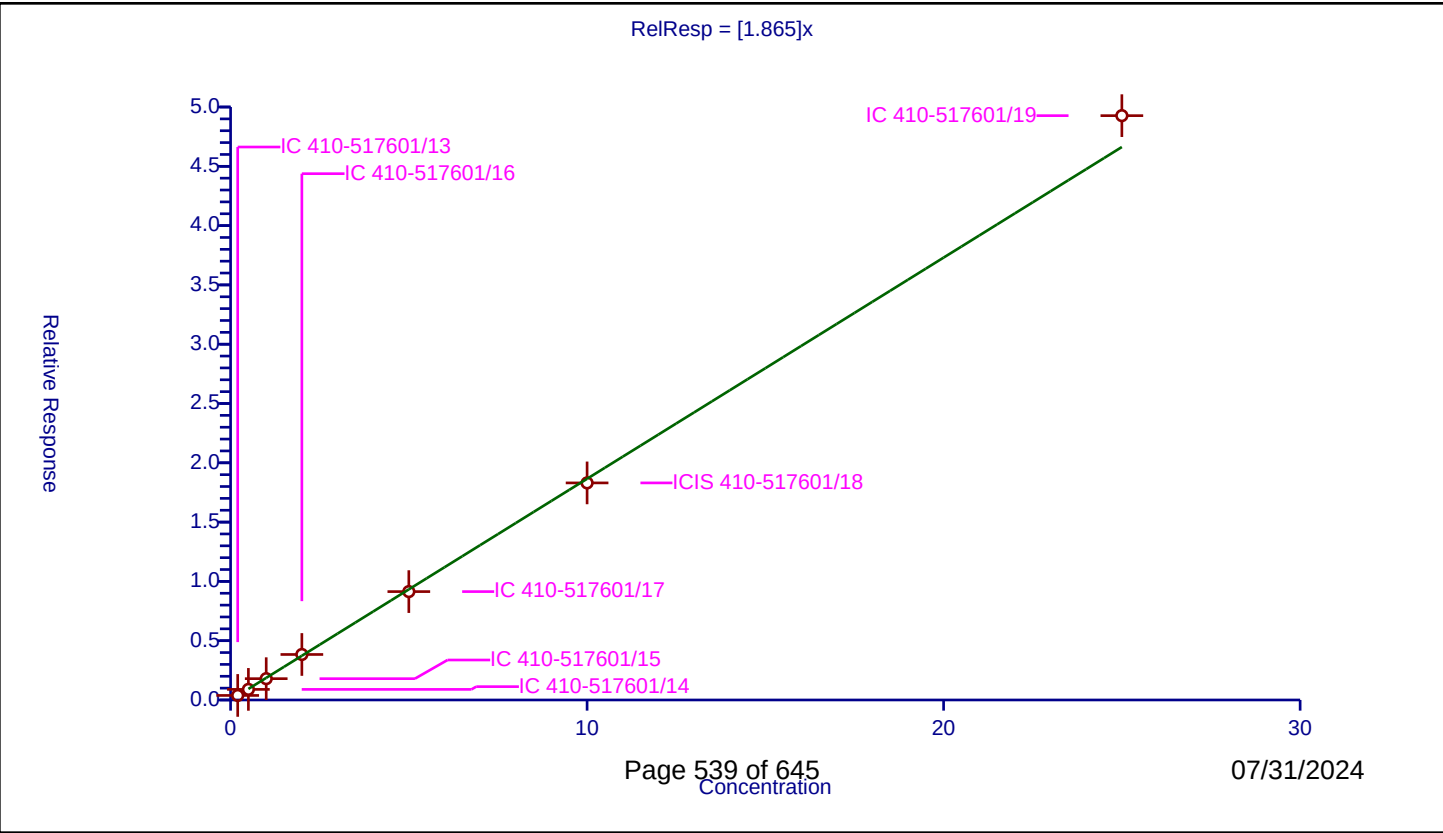
/ Ethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.865
Error Coefficients	

Relative Standard Deviation: 3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.384478	10.0	1782883.0	1.922392	Y
2	IC 410-517601/14	0.5	0.893839	10.0	1784584.0	1.787677	Y
3	IC 410-517601/15	1.0	1.797105	10.0	1748651.0	1.797105	Y
4	IC 410-517601/16	2.0	3.838123	10.0	1740765.0	1.919061	Y
5	IC 410-517601/17	5.0	9.1399	10.0	1774642.0	1.82798	Y
6	ICIS 410-517601/18	10.0	18.304474	10.0	1791303.0	1.830447	Y
7	IC 410-517601/19	25.0	49.271611	10.0	1739935.0	1.970864	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

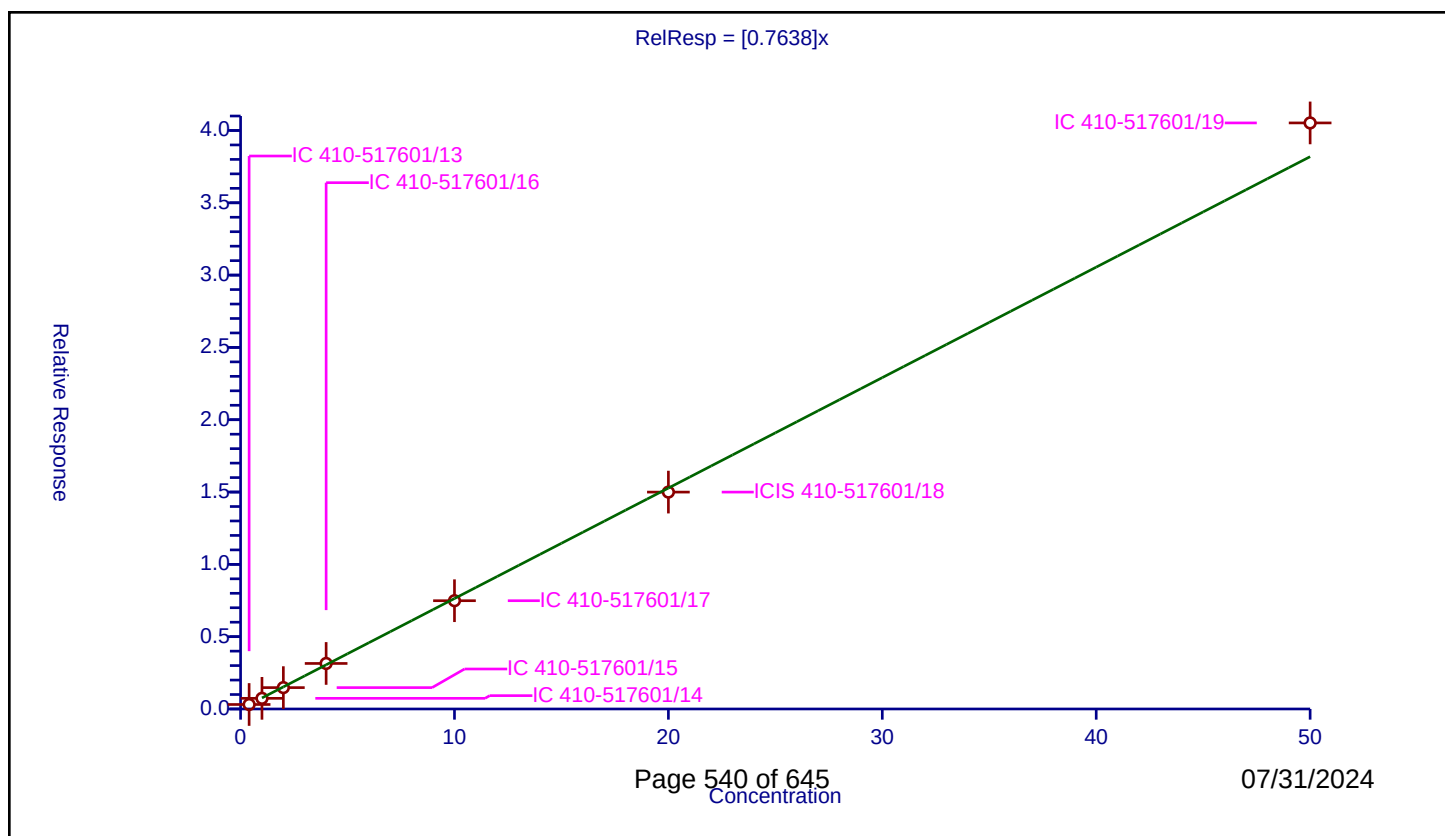
Curve Coefficients

Intercept: 0
Slope: 0.7638

Error Coefficients

Relative Standard Deviation: 3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.4	0.31034	10.0	1782883.0	0.77585	Y
2	IC 410-517601/14	1.0	0.735987	10.0	1784584.0	0.735987	Y
3	IC 410-517601/15	2.0	1.477293	10.0	1748651.0	0.738647	Y
4	IC 410-517601/16	4.0	3.14761	10.0	1740765.0	0.786903	Y
5	IC 410-517601/17	10.0	7.486997	10.0	1774642.0	0.7487	Y
6	ICIS 410-517601/18	20.0	14.996709	10.0	1791303.0	0.749835	Y
7	IC 410-517601/19	50.0	40.521519	10.0	1739935.0	0.81043	Y



Calibration

/ o-Xylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

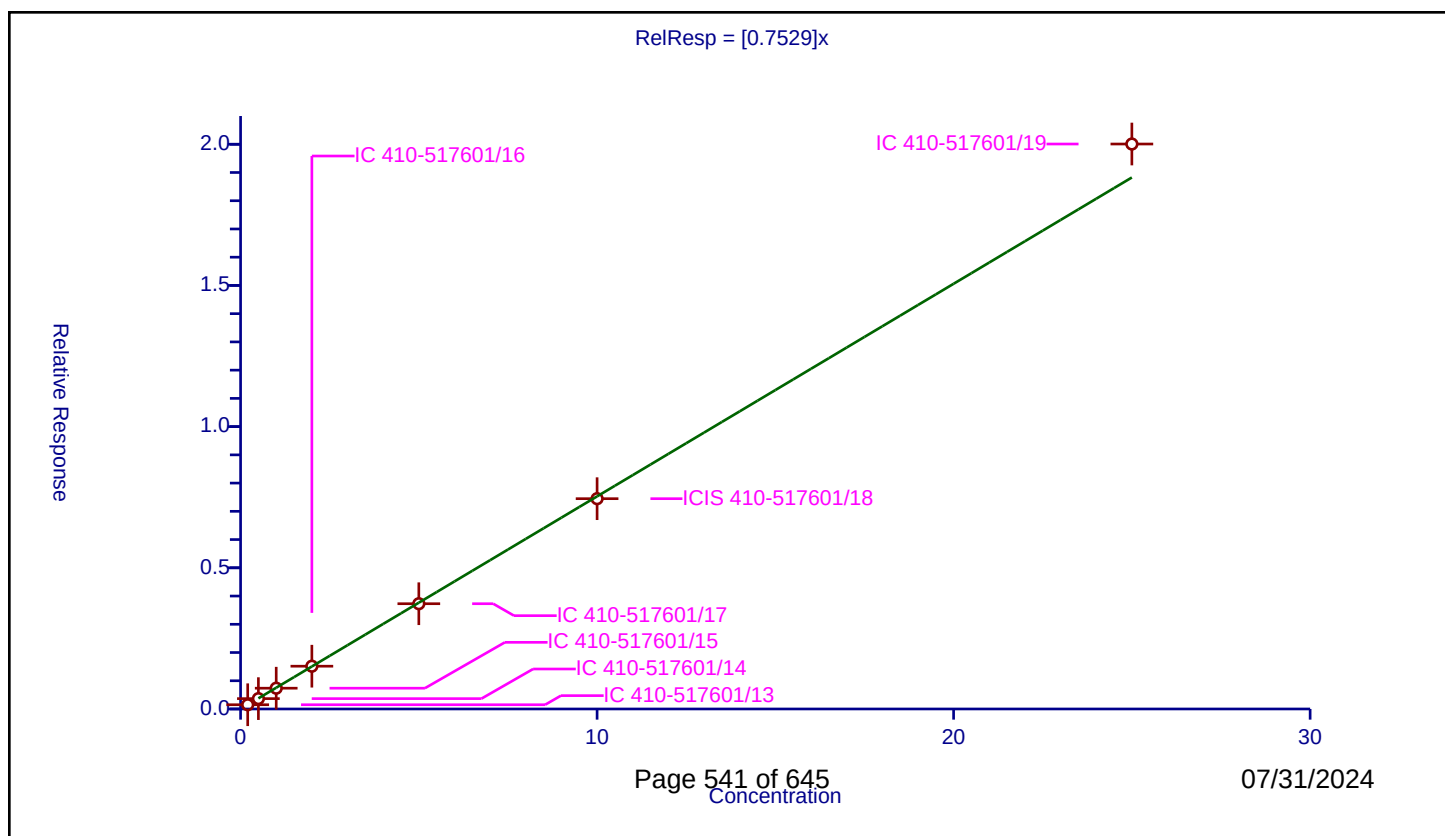
Curve Coefficients

Intercept: 0
Slope: 0.7529

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.150296	10.0	1782883.0	0.751479	Y
2	IC 410-517601/14	0.5	0.367307	10.0	1784584.0	0.734614	Y
3	IC 410-517601/15	1.0	0.735927	10.0	1748651.0	0.735927	Y
4	IC 410-517601/16	2.0	1.515598	10.0	1740765.0	0.757799	Y
5	IC 410-517601/17	5.0	3.728177	10.0	1774642.0	0.745635	Y
6	ICIS 410-517601/18	10.0	7.447601	10.0	1791303.0	0.74476	Y
7	IC 410-517601/19	25.0	20.008109	10.0	1739935.0	0.800324	Y



Calibration

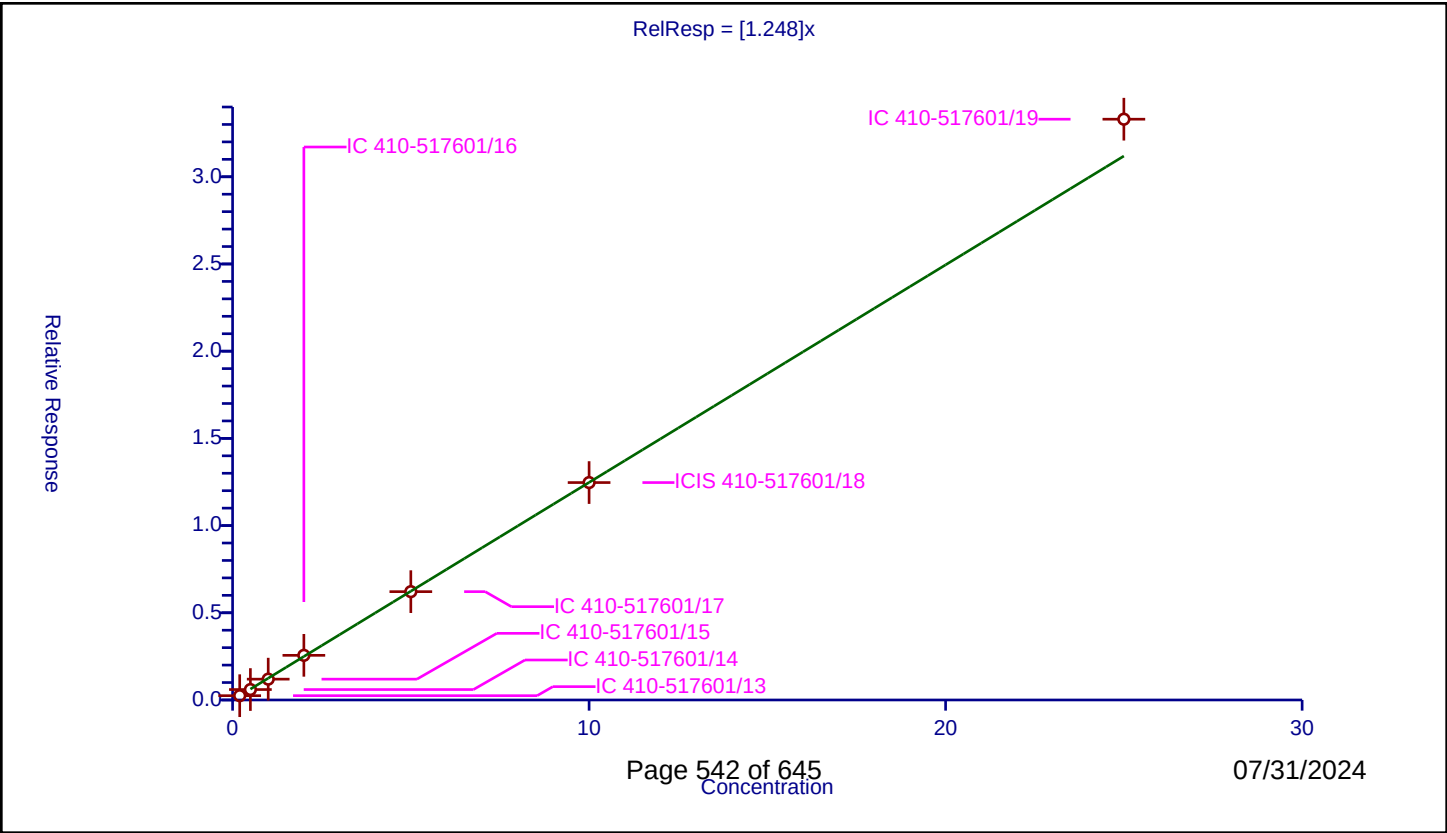
/ Styrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.248
Error Coefficients	

Relative Standard Deviation: 3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.247638	10.0	1782883.0	1.238191	Y
2	IC 410-517601/14	0.5	0.599103	10.0	1784584.0	1.198206	Y
3	IC 410-517601/15	1.0	1.194898	10.0	1748651.0	1.194898	Y
4	IC 410-517601/16	2.0	2.560282	10.0	1740765.0	1.280141	Y
5	IC 410-517601/17	5.0	6.212363	10.0	1774642.0	1.242473	Y
6	ICIS 410-517601/18	10.0	12.466813	10.0	1791303.0	1.246681	Y
7	IC 410-517601/19	25.0	33.30133	10.0	1739935.0	1.332053	Y



Calibration

/ Bromoform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

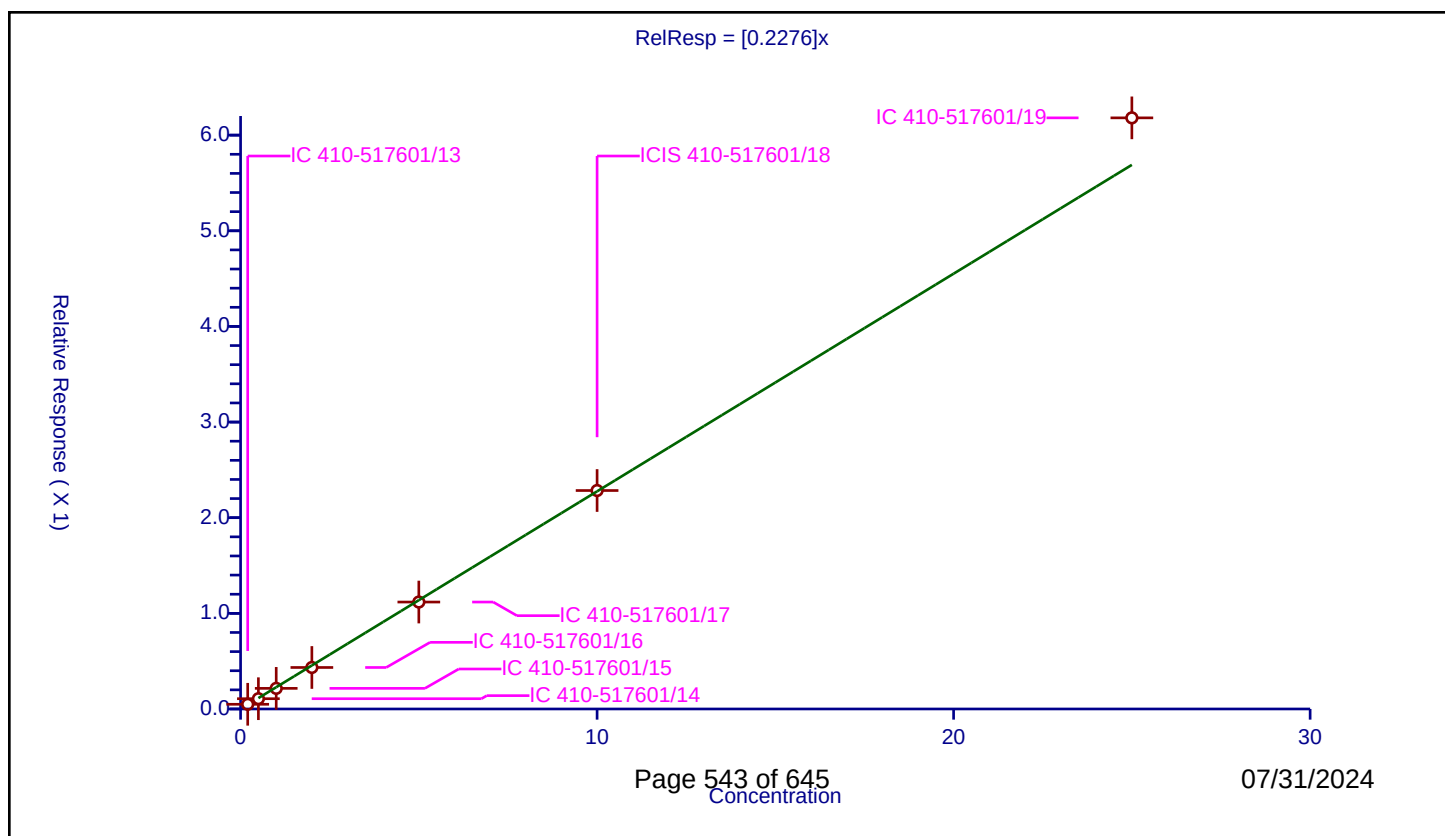
Curve Coefficients

Intercept: 0
Slope: 0.2276

Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.049179	10.0	1782883.0	0.245894	Y
2	IC 410-517601/14	0.5	0.107582	10.0	1784584.0	0.215165	Y
3	IC 410-517601/15	1.0	0.215589	10.0	1748651.0	0.215589	Y
4	IC 410-517601/16	2.0	0.434062	10.0	1740765.0	0.217031	Y
5	IC 410-517601/17	5.0	1.118276	10.0	1774642.0	0.223655	Y
6	ICIS 410-517601/18	10.0	2.284281	10.0	1791303.0	0.228428	Y
7	IC 410-517601/19	25.0	6.18065	10.0	1739935.0	0.247226	Y



Calibration

/ Isopropylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

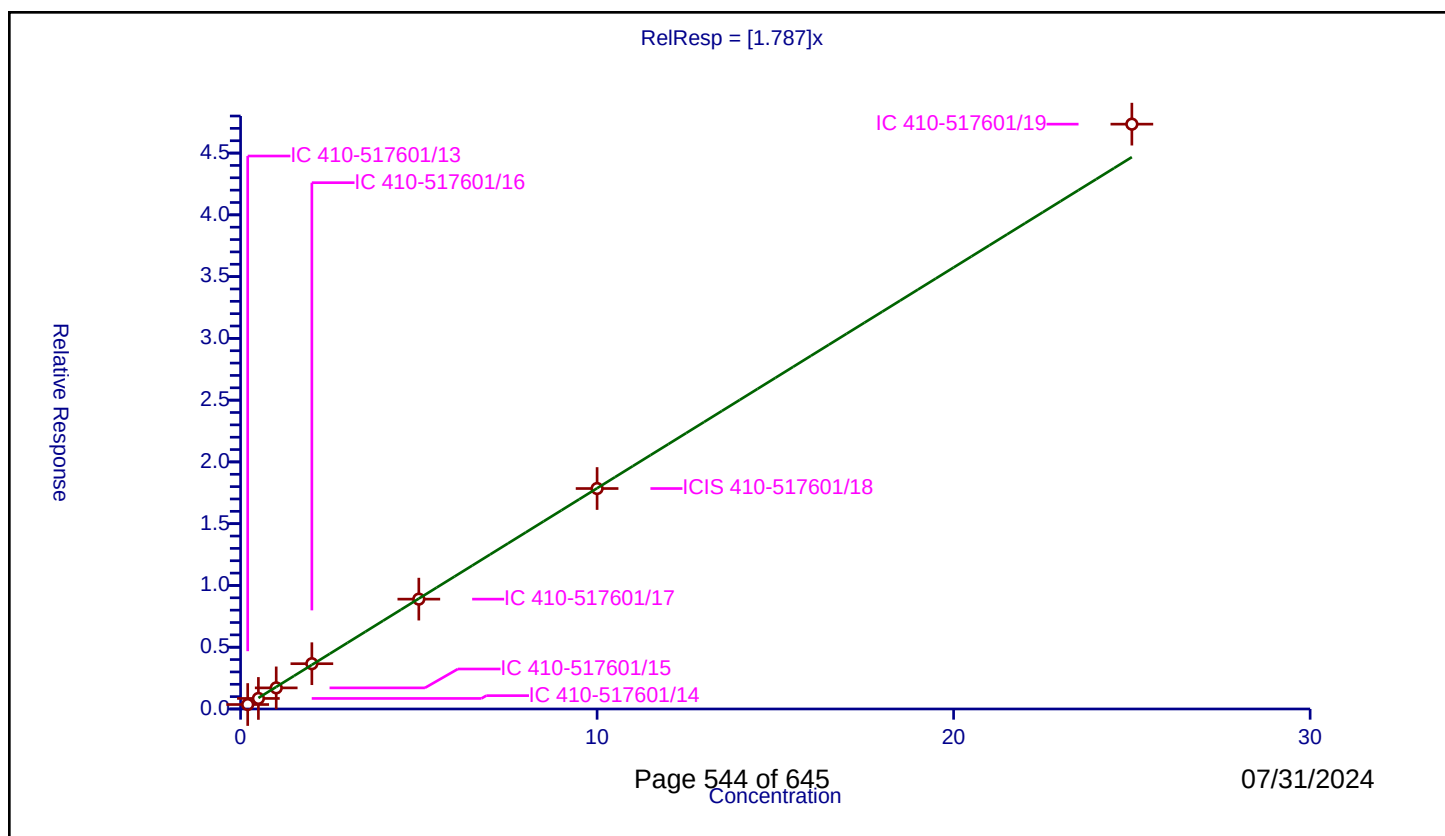
Curve Coefficients

Intercept: 0
Slope: 1.787

Error Coefficients

Relative Standard Deviation: 3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.360629	10.0	1782883.0	1.803147	Y
2	IC 410-517601/14	0.5	0.853622	10.0	1784584.0	1.707244	Y
3	IC 410-517601/15	1.0	1.708397	10.0	1748651.0	1.708397	Y
4	IC 410-517601/16	2.0	3.66586	10.0	1740765.0	1.83293	Y
5	IC 410-517601/17	5.0	8.893382	10.0	1774642.0	1.778676	Y
6	ICIS 410-517601/18	10.0	17.846702	10.0	1791303.0	1.78467	Y
7	IC 410-517601/19	25.0	47.342533	10.0	1739935.0	1.893701	Y



Calibration

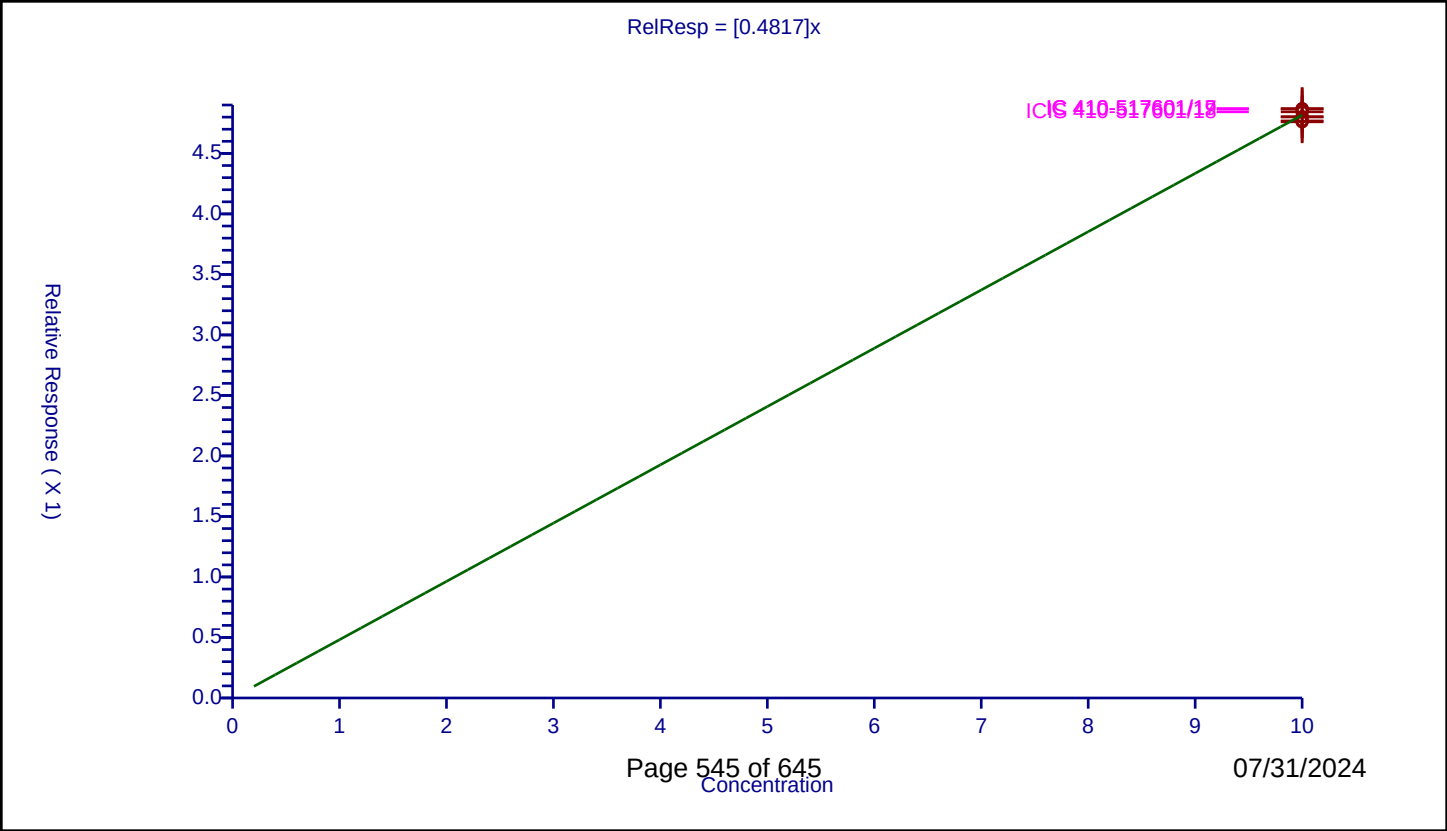
/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4817
Error Coefficients	

Relative Standard Deviation: 0.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	10.0	4.768378	10.0	1782883.0	0.476838	Y
2	IC 410-517601/14	10.0	4.761104	10.0	1784584.0	0.47611	Y
3	IC 410-517601/15	10.0	4.802576	10.0	1748651.0	0.480258	Y
4	IC 410-517601/16	10.0	4.802021	10.0	1740765.0	0.480202	Y
5	IC 410-517601/17	10.0	4.868435	10.0	1774642.0	0.486844	Y
6	ICIS 410-517601/18	10.0	4.84391	10.0	1791303.0	0.484391	Y
7	IC 410-517601/19	10.0	4.869303	10.0	1739935.0	0.48693	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

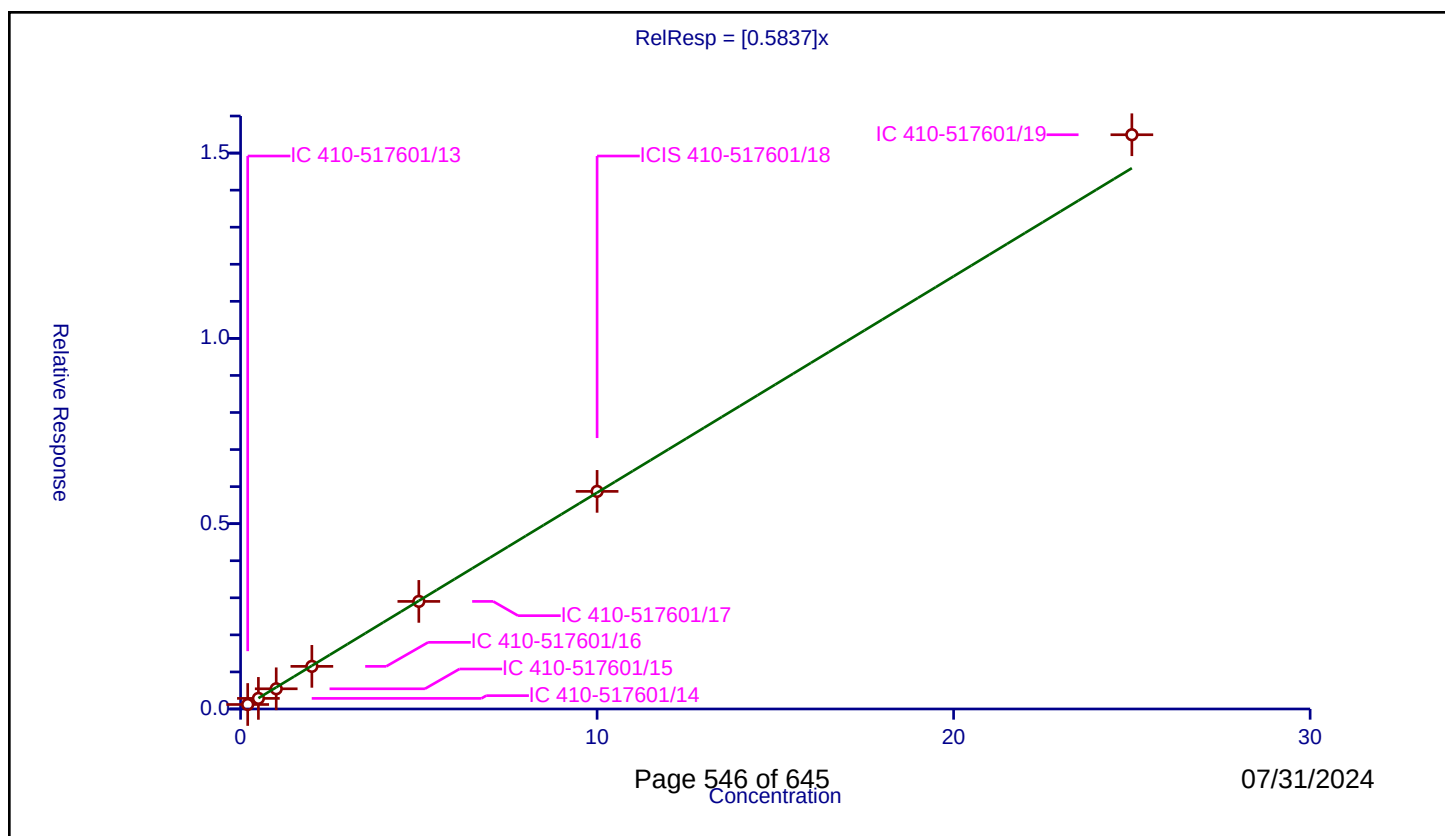
Curve Coefficients

Intercept: 0
Slope: 0.5837

Error Coefficients

Relative Standard Deviation: 4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.121368	10.0	1015421.0	0.606842	Y
2	IC 410-517601/14	0.5	0.285807	10.0	1026393.0	0.571613	Y
3	IC 410-517601/15	1.0	0.545062	10.0	1014032.0	0.545062	Y
4	IC 410-517601/16	2.0	1.150089	10.0	1002844.0	0.575045	Y
5	IC 410-517601/17	5.0	2.903148	10.0	1046571.0	0.58063	Y
6	ICIS 410-517601/18	10.0	5.871962	10.0	1059823.0	0.587196	Y
7	IC 410-517601/19	25.0	15.495057	10.0	1044446.0	0.619802	Y



Calibration

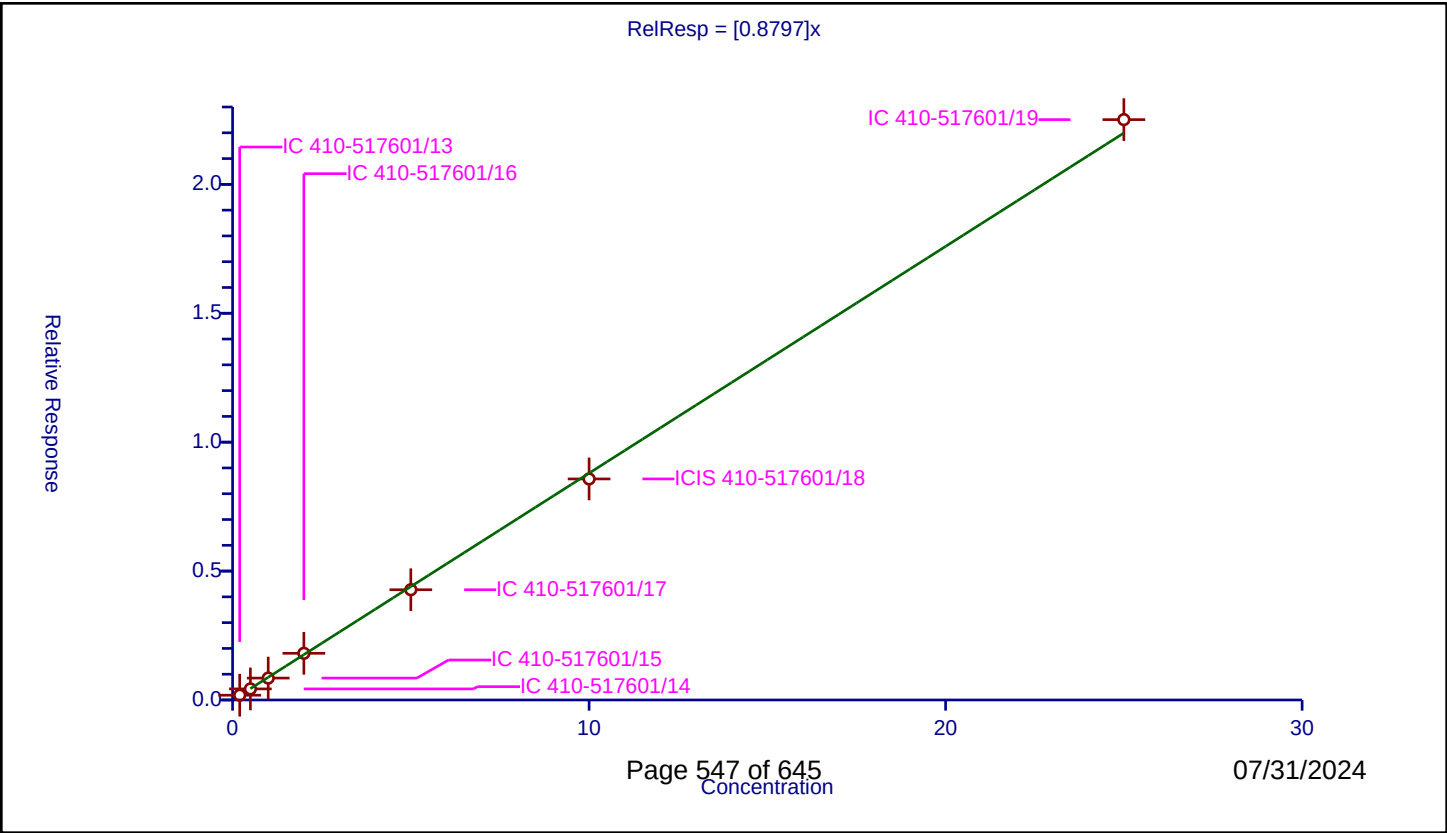
/ Bromobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8797
Error Coefficients	

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.185913	10.0	1015421.0	0.929565	Y
2	IC 410-517601/14	0.5	0.430245	10.0	1026393.0	0.860489	Y
3	IC 410-517601/15	1.0	0.849214	10.0	1014032.0	0.849214	Y
4	IC 410-517601/16	2.0	1.81082	10.0	1002844.0	0.90541	Y
5	IC 410-517601/17	5.0	4.276117	10.0	1046571.0	0.855223	Y
6	ICIS 410-517601/18	10.0	8.574536	10.0	1059823.0	0.857454	Y
7	IC 410-517601/19	25.0	22.510326	10.0	1044446.0	0.900413	Y



Calibration

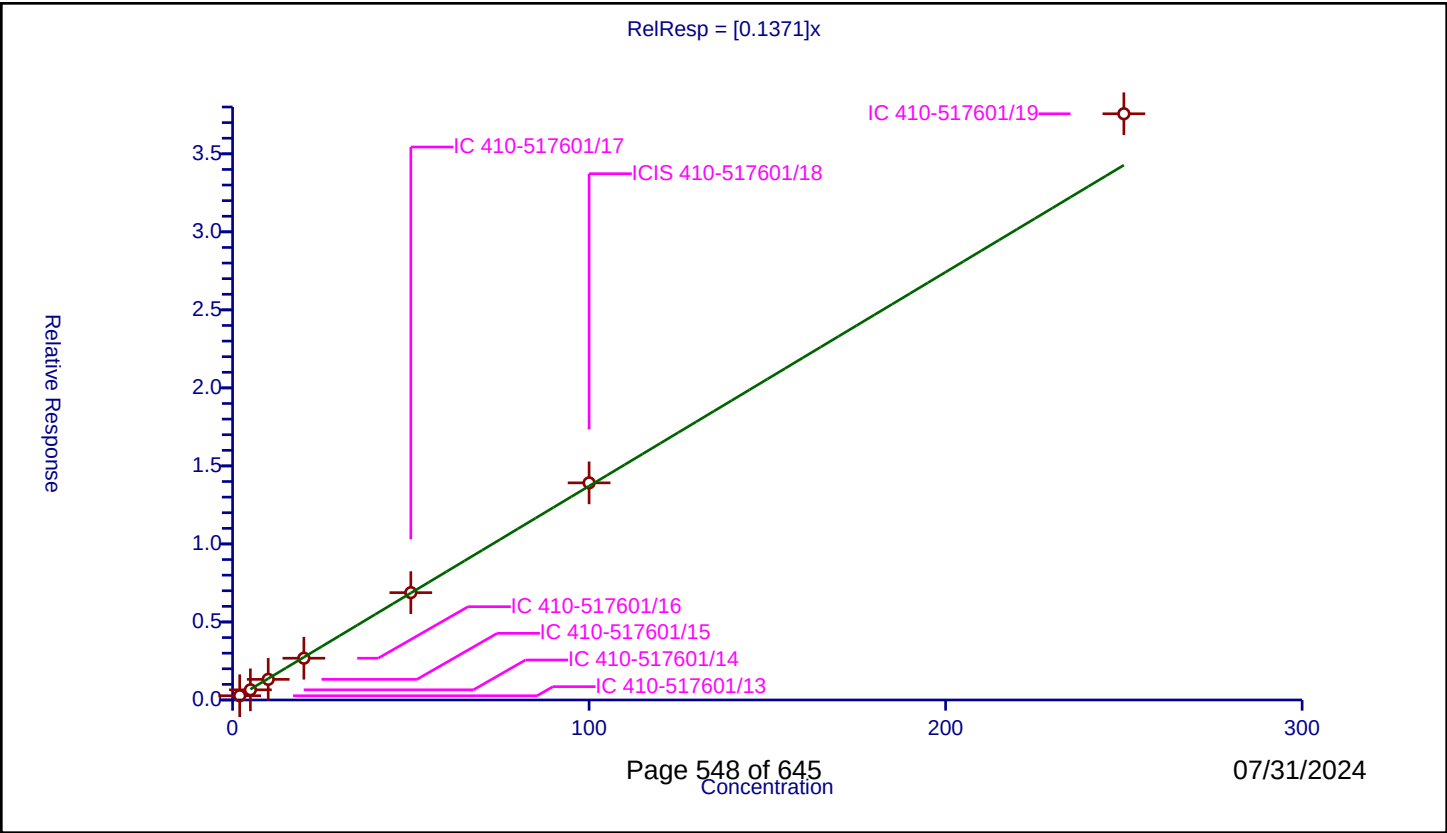
/ trans-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1371
Error Coefficients	

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	2.0	0.272419	10.0	1015421.0	0.13621	Y
2	IC 410-517601/14	5.0	0.652294	10.0	1026393.0	0.130459	Y
3	IC 410-517601/15	10.0	1.321724	10.0	1014032.0	0.132172	Y
4	IC 410-517601/16	20.0	2.676777	10.0	1002844.0	0.133839	Y
5	IC 410-517601/17	50.0	6.879122	10.0	1046571.0	0.137582	Y
6	ICIS 410-517601/18	100.0	13.915456	10.0	1059823.0	0.139155	Y
7	IC 410-517601/19	250.0	37.567103	10.0	1044446.0	0.150268	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

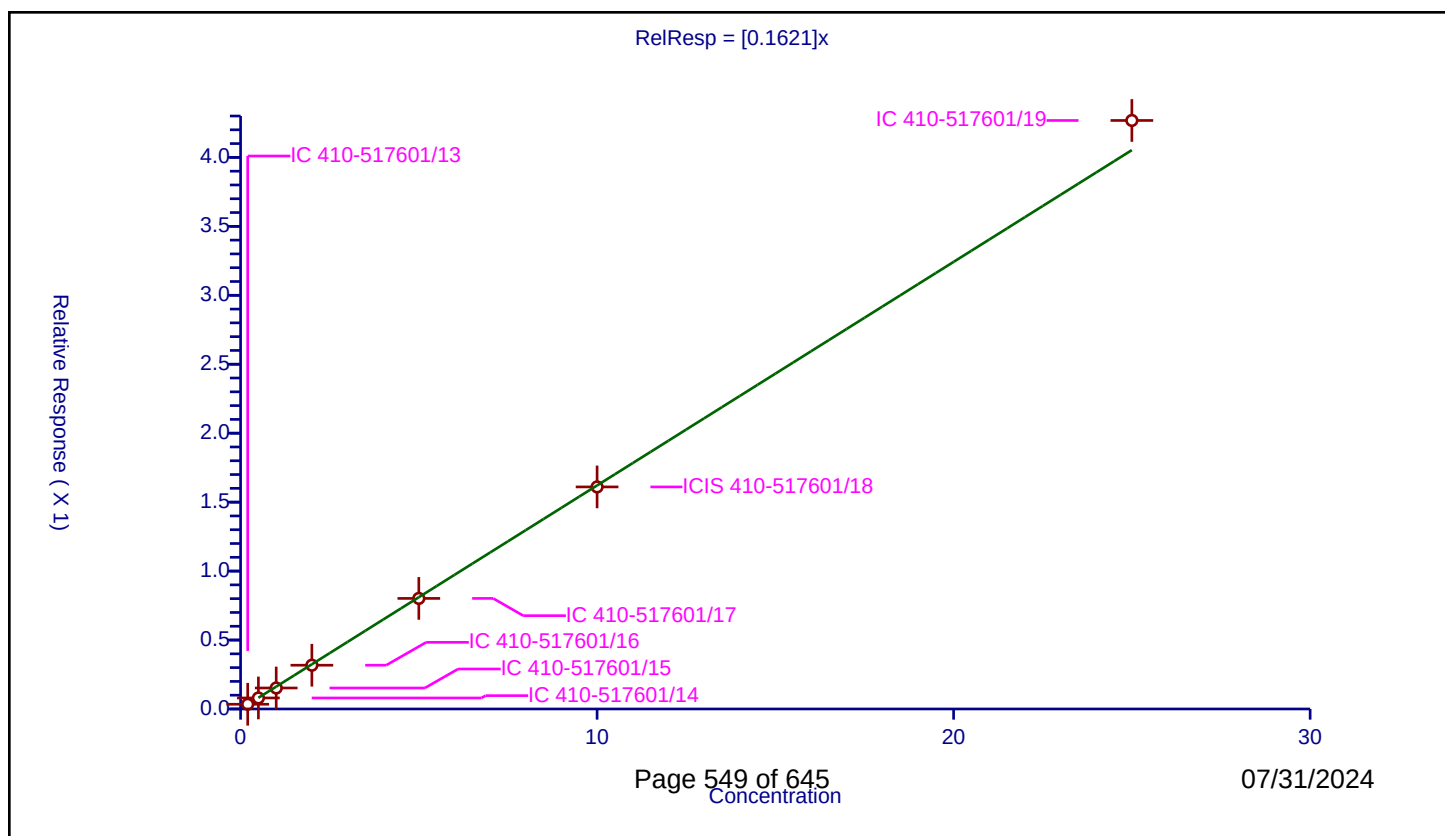
Curve Coefficients

Intercept: 0
Slope: 0.1621

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.03438	10.0	1015421.0	0.171899	Y
2	IC 410-517601/14	0.5	0.079891	10.0	1026393.0	0.159783	Y
3	IC 410-517601/15	1.0	0.152254	10.0	1014032.0	0.152254	Y
4	IC 410-517601/16	2.0	0.317417	10.0	1002844.0	0.158709	Y
5	IC 410-517601/17	5.0	0.801924	10.0	1046571.0	0.160385	Y
6	ICIS 410-517601/18	10.0	1.610392	10.0	1059823.0	0.161039	Y
7	IC 410-517601/19	25.0	4.267736	10.0	1044446.0	0.170709	Y



Calibration

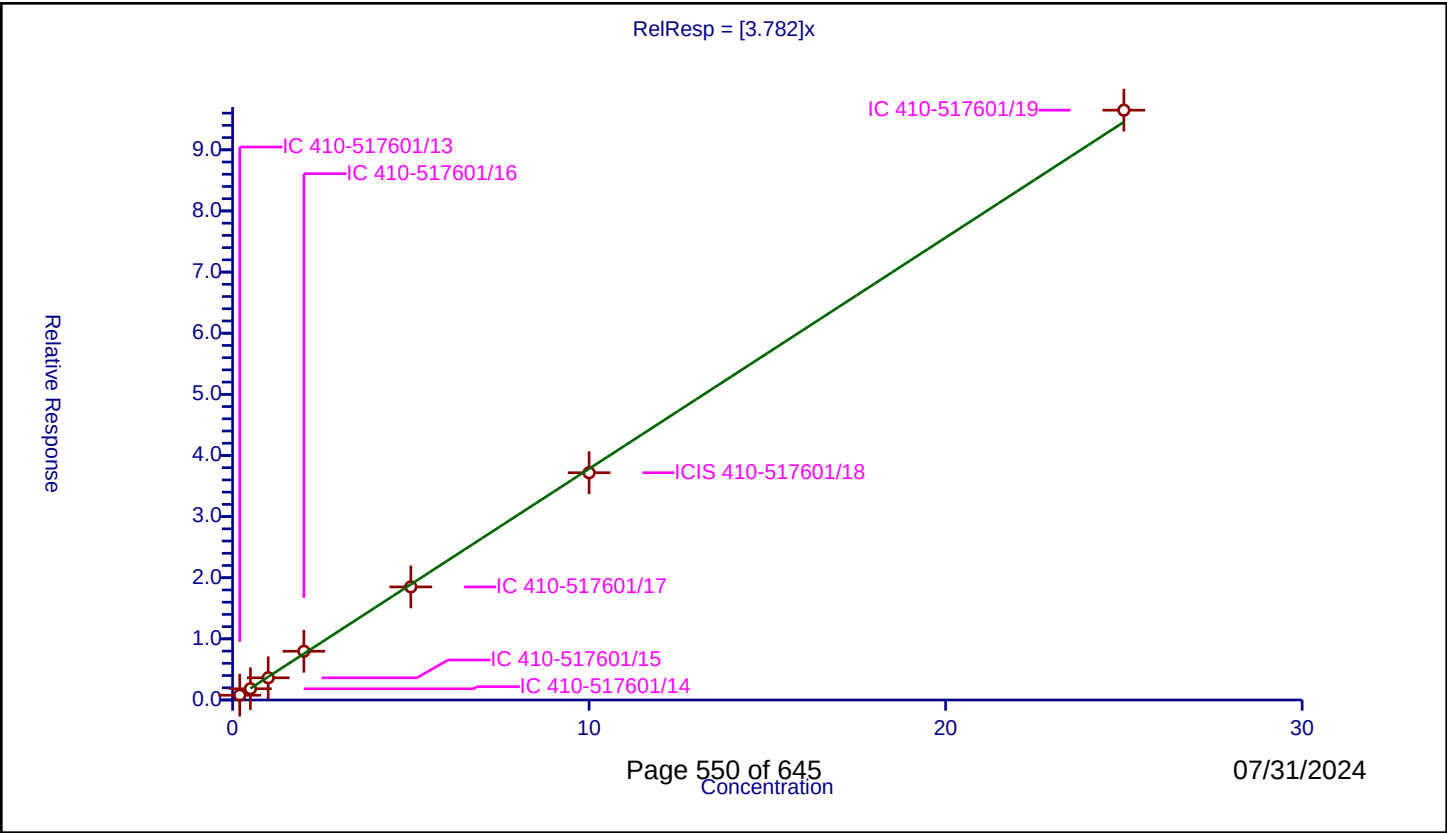
/ N-Propylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.782
Error Coefficients	

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.780356	10.0	1015421.0	3.901781	Y
2	IC 410-517601/14	0.5	1.838682	10.0	1026393.0	3.677363	Y
3	IC 410-517601/15	1.0	3.631868	10.0	1014032.0	3.631868	Y
4	IC 410-517601/16	2.0	7.97113	10.0	1002844.0	3.985565	Y
5	IC 410-517601/17	5.0	18.499844	10.0	1046571.0	3.699969	Y
6	ICIS 410-517601/18	10.0	37.176595	10.0	1059823.0	3.717659	Y
7	IC 410-517601/19	25.0	96.486673	10.0	1044446.0	3.859467	Y



Calibration

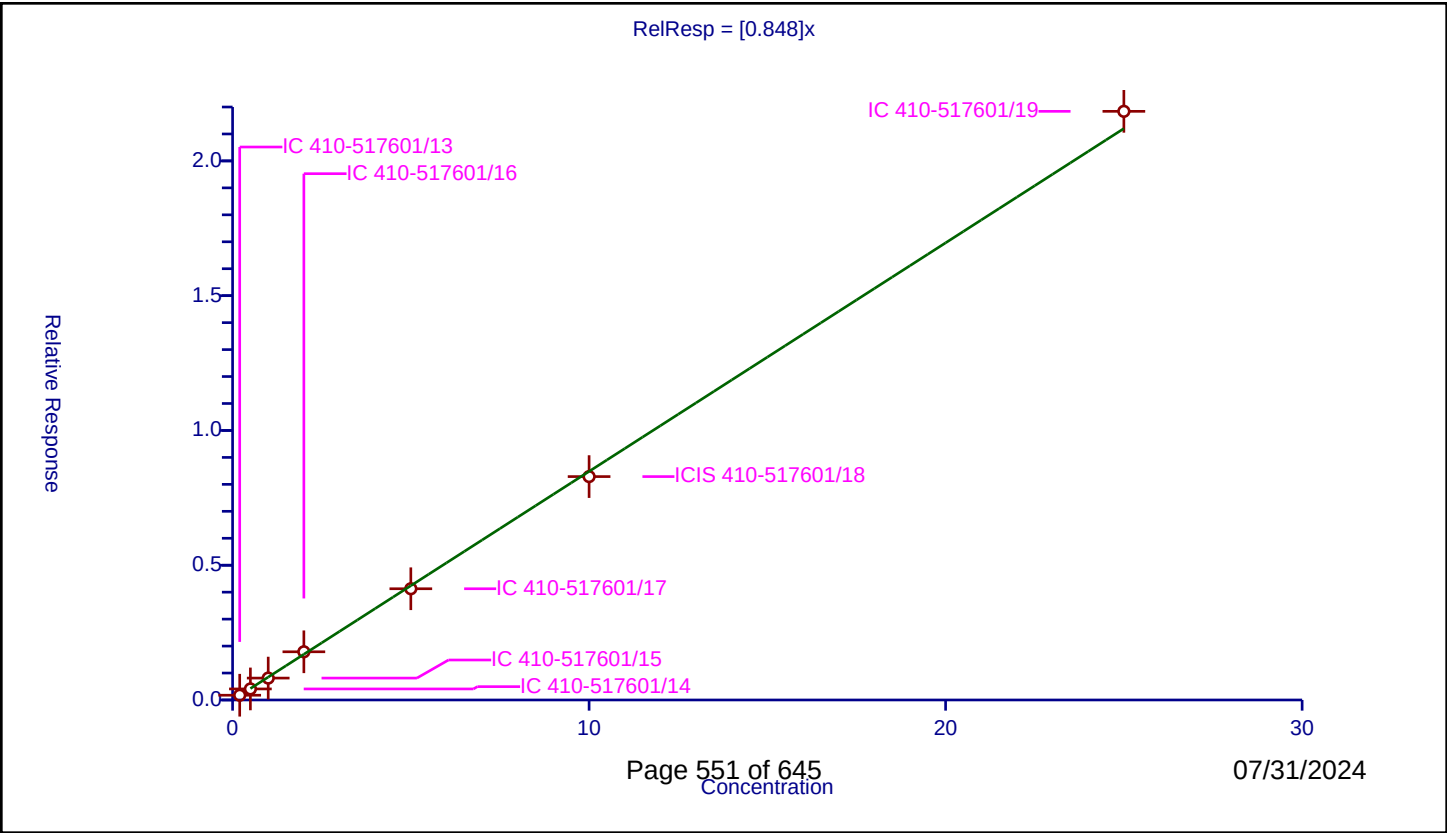
/ 2-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.848
Error Coefficients	

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.17636	10.0	1015421.0	0.881802	Y
2	IC 410-517601/14	0.5	0.410038	10.0	1026393.0	0.820076	Y
3	IC 410-517601/15	1.0	0.812351	10.0	1014032.0	0.812351	Y
4	IC 410-517601/16	2.0	1.788194	10.0	1002844.0	0.894097	Y
5	IC 410-517601/17	5.0	4.127183	10.0	1046571.0	0.825437	Y
6	ICIS 410-517601/18	10.0	8.288469	10.0	1059823.0	0.828847	Y
7	IC 410-517601/19	25.0	21.839463	10.0	1044446.0	0.873579	Y



Calibration

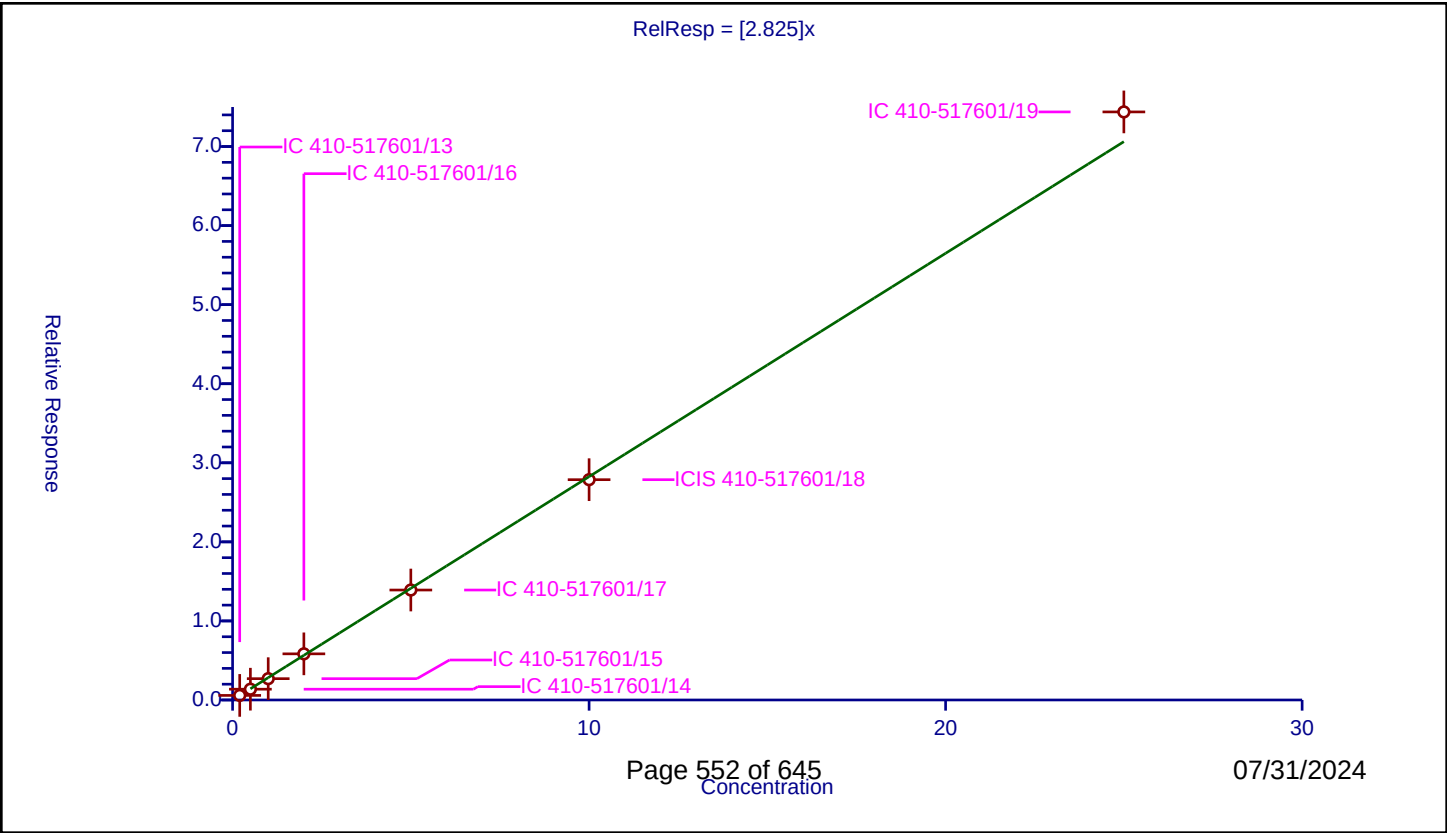
/ 1,3,5-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.825
Error Coefficients	

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.576933	10.0	1015421.0	2.884666	Y
2	IC 410-517601/14	0.5	1.365111	10.0	1026393.0	2.730221	Y
3	IC 410-517601/15	1.0	2.697321	10.0	1014032.0	2.697321	Y
4	IC 410-517601/16	2.0	5.835703	10.0	1002844.0	2.917852	Y
5	IC 410-517601/17	5.0	13.908077	10.0	1046571.0	2.781615	Y
6	ICIS 410-517601/18	10.0	27.865219	10.0	1059823.0	2.786522	Y
7	IC 410-517601/19	25.0	74.377756	10.0	1044446.0	2.97511	Y



Calibration

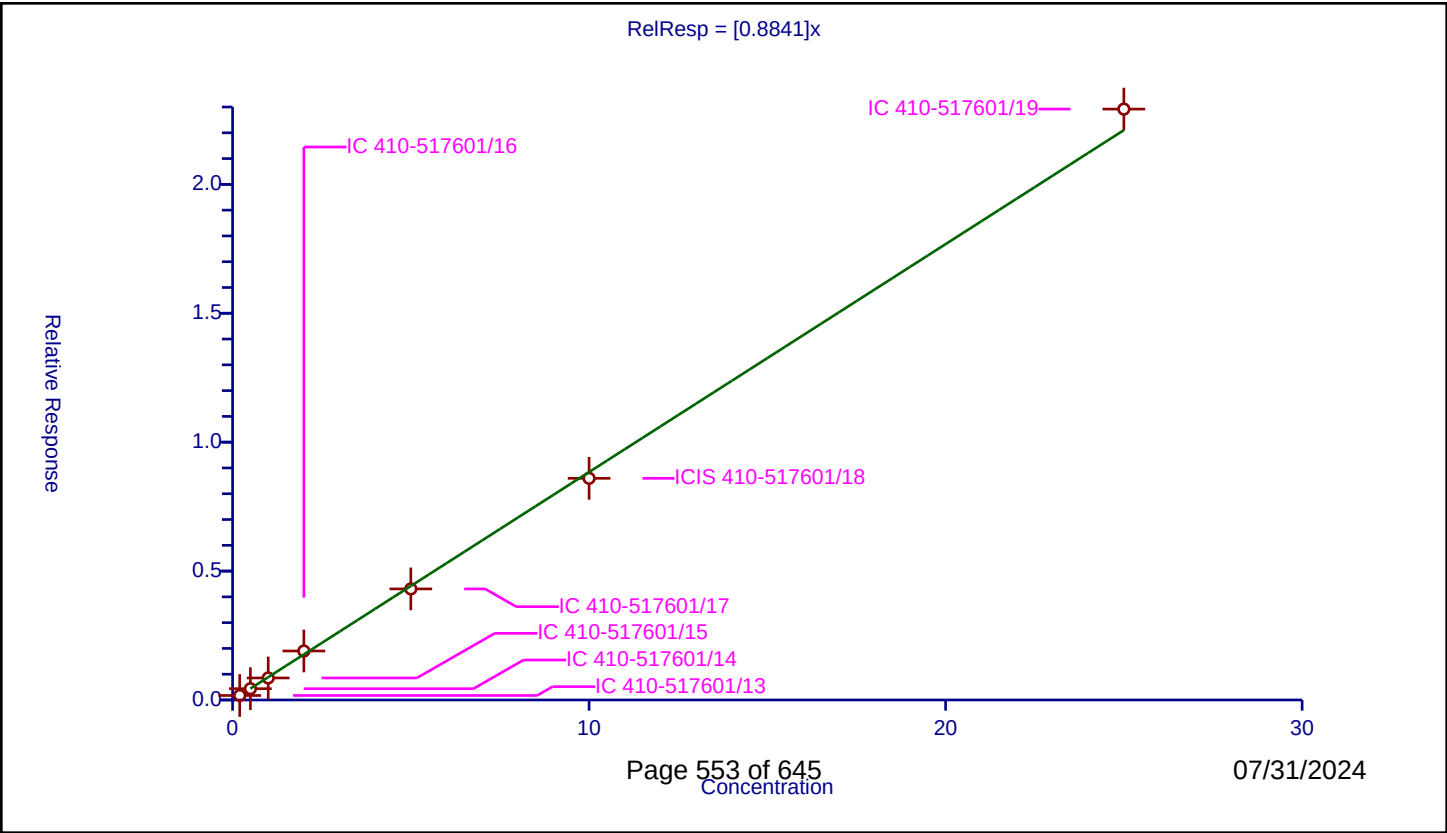
/ 4-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8841
Error Coefficients	

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.173928	10.0	1015421.0	0.869639	Y
2	IC 410-517601/14	0.5	0.437893	10.0	1026393.0	0.875785	Y
3	IC 410-517601/15	1.0	0.854805	10.0	1014032.0	0.854805	Y
4	IC 410-517601/16	2.0	1.900226	10.0	1002844.0	0.950113	Y
5	IC 410-517601/17	5.0	4.308614	10.0	1046571.0	0.861723	Y
6	ICIS 410-517601/18	10.0	8.598341	10.0	1059823.0	0.859834	Y
7	IC 410-517601/19	25.0	22.919711	10.0	1044446.0	0.916788	Y



Calibration

/ tert-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

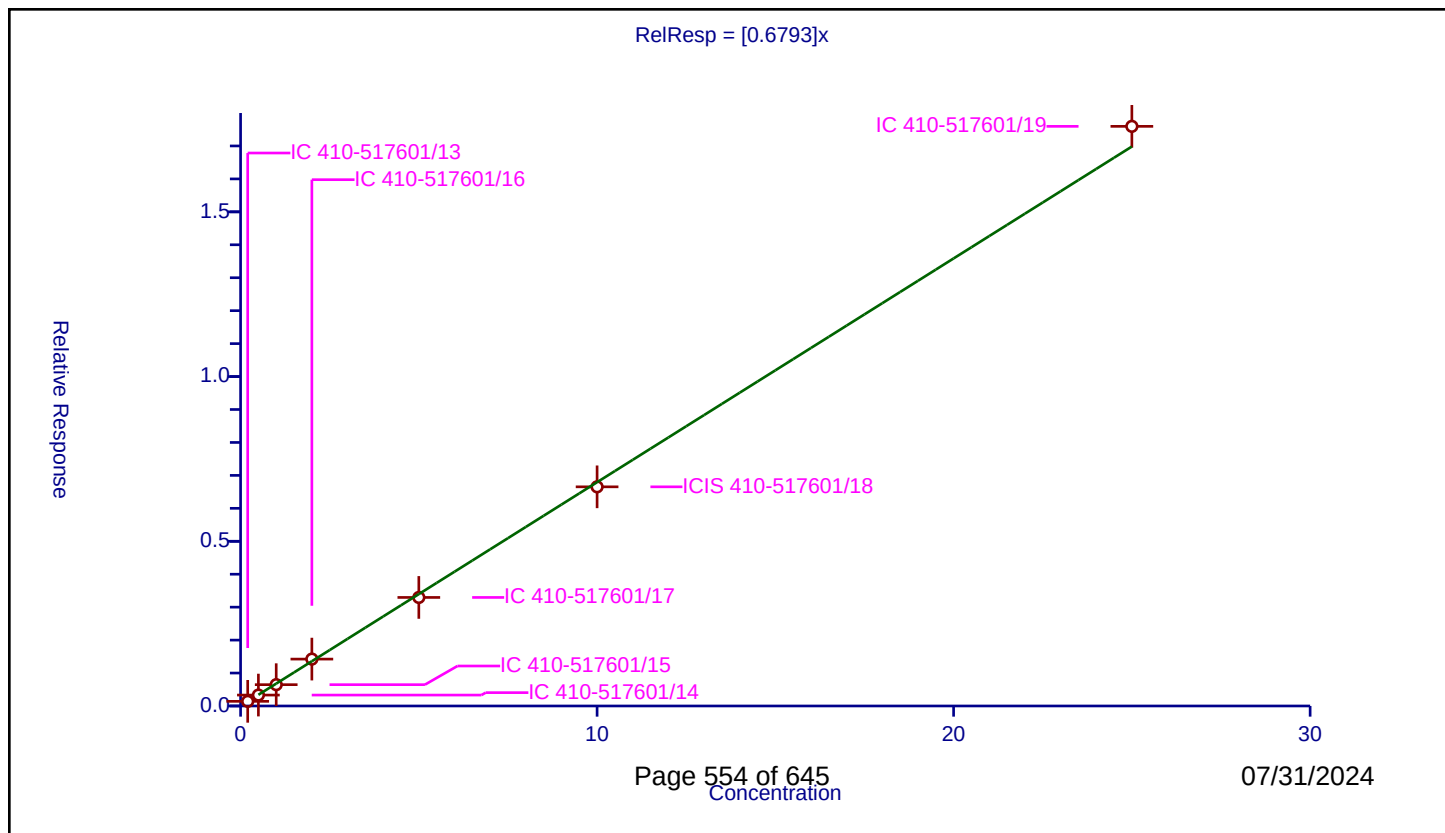
Curve Coefficients

Intercept: 0
Slope: 0.6793

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.141084	10.0	1015421.0	0.705422	Y
2	IC 410-517601/14	0.5	0.331082	10.0	1026393.0	0.662164	Y
3	IC 410-517601/15	1.0	0.647554	10.0	1014032.0	0.647554	Y
4	IC 410-517601/16	2.0	1.423512	10.0	1002844.0	0.711756	Y
5	IC 410-517601/17	5.0	3.294578	10.0	1046571.0	0.658916	Y
6	ICIS 410-517601/18	10.0	6.652951	10.0	1059823.0	0.665295	Y
7	IC 410-517601/19	25.0	17.595625	10.0	1044446.0	0.703825	Y



Calibration

/ Pentachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

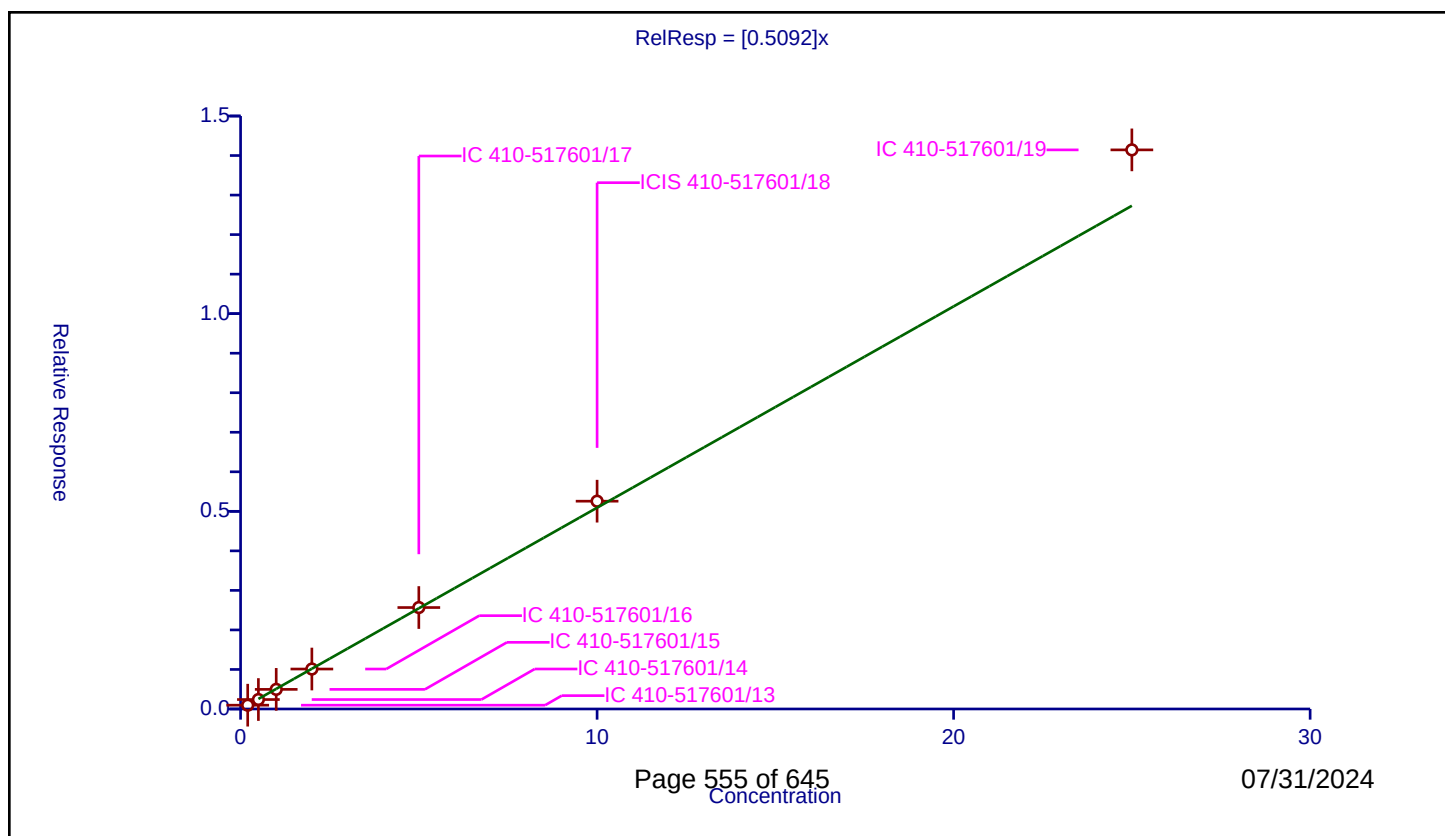
Curve Coefficients

Intercept: 0
Slope: 0.5092

Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.095803	10.0	1015421.0	0.479013	Y
2	IC 410-517601/14	0.5	0.23944	10.0	1026393.0	0.478881	Y
3	IC 410-517601/15	1.0	0.496138	10.0	1014032.0	0.496138	Y
4	IC 410-517601/16	2.0	1.010995	10.0	1002844.0	0.505497	Y
5	IC 410-517601/17	5.0	2.566486	10.0	1046571.0	0.513297	Y
6	ICIS 410-517601/18	10.0	5.256255	10.0	1059823.0	0.525626	Y
7	IC 410-517601/19	25.0	14.143182	10.0	1044446.0	0.565727	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

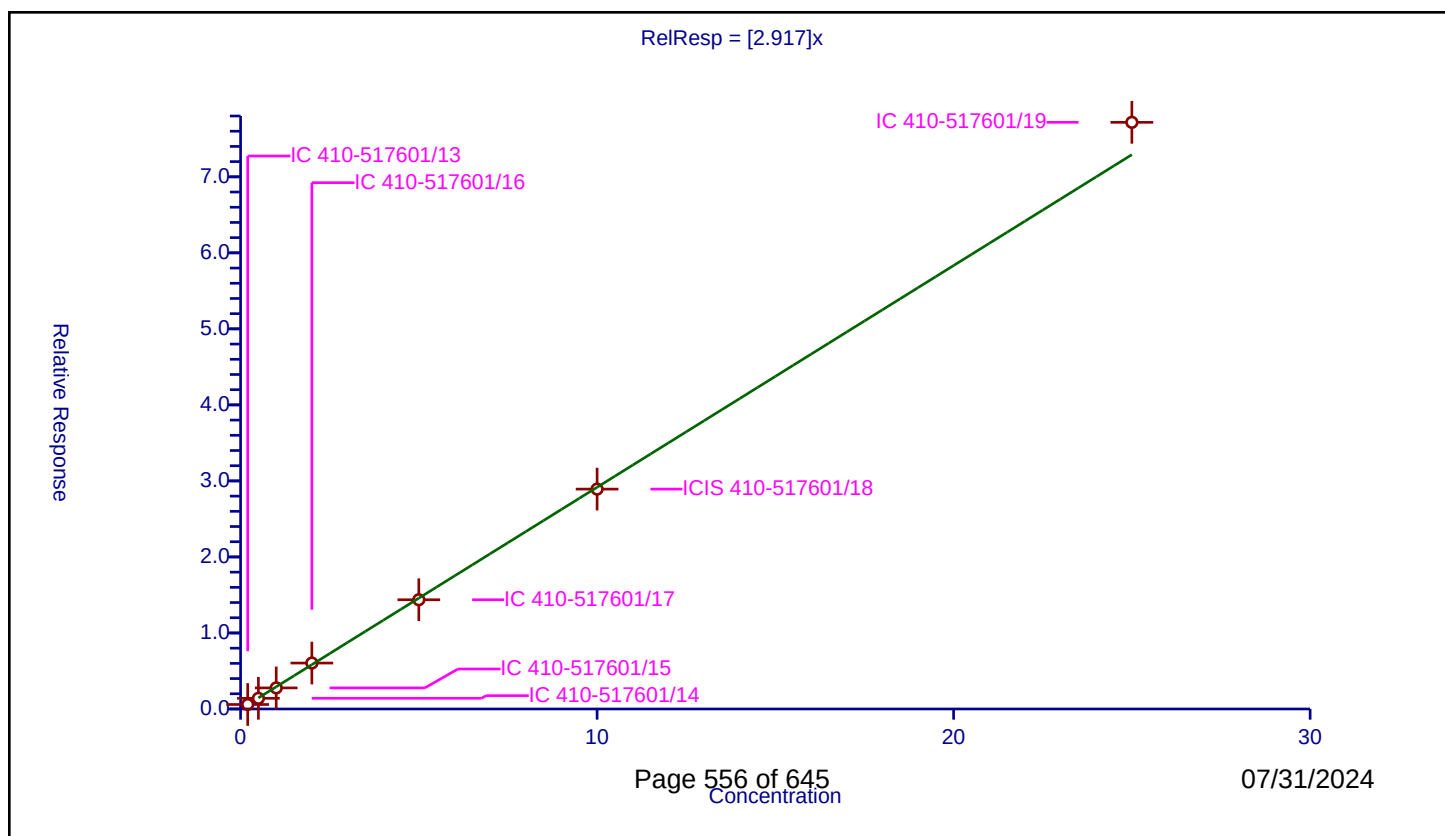
Curve Coefficients

Intercept: 0
 Slope: 2.917

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.592533	10.0	1015421.0	2.962663	Y
2	IC 410-517601/14	0.5	1.404326	10.0	1026393.0	2.808651	Y
3	IC 410-517601/15	1.0	2.771609	10.0	1014032.0	2.771609	Y
4	IC 410-517601/16	2.0	6.041468	10.0	1002844.0	3.020734	Y
5	IC 410-517601/17	5.0	14.36902	10.0	1046571.0	2.873804	Y
6	ICIS 410-517601/18	10.0	28.922905	10.0	1059823.0	2.892291	Y
7	IC 410-517601/19	25.0	77.167522	10.0	1044446.0	3.086701	Y



Calibration

/ sec-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

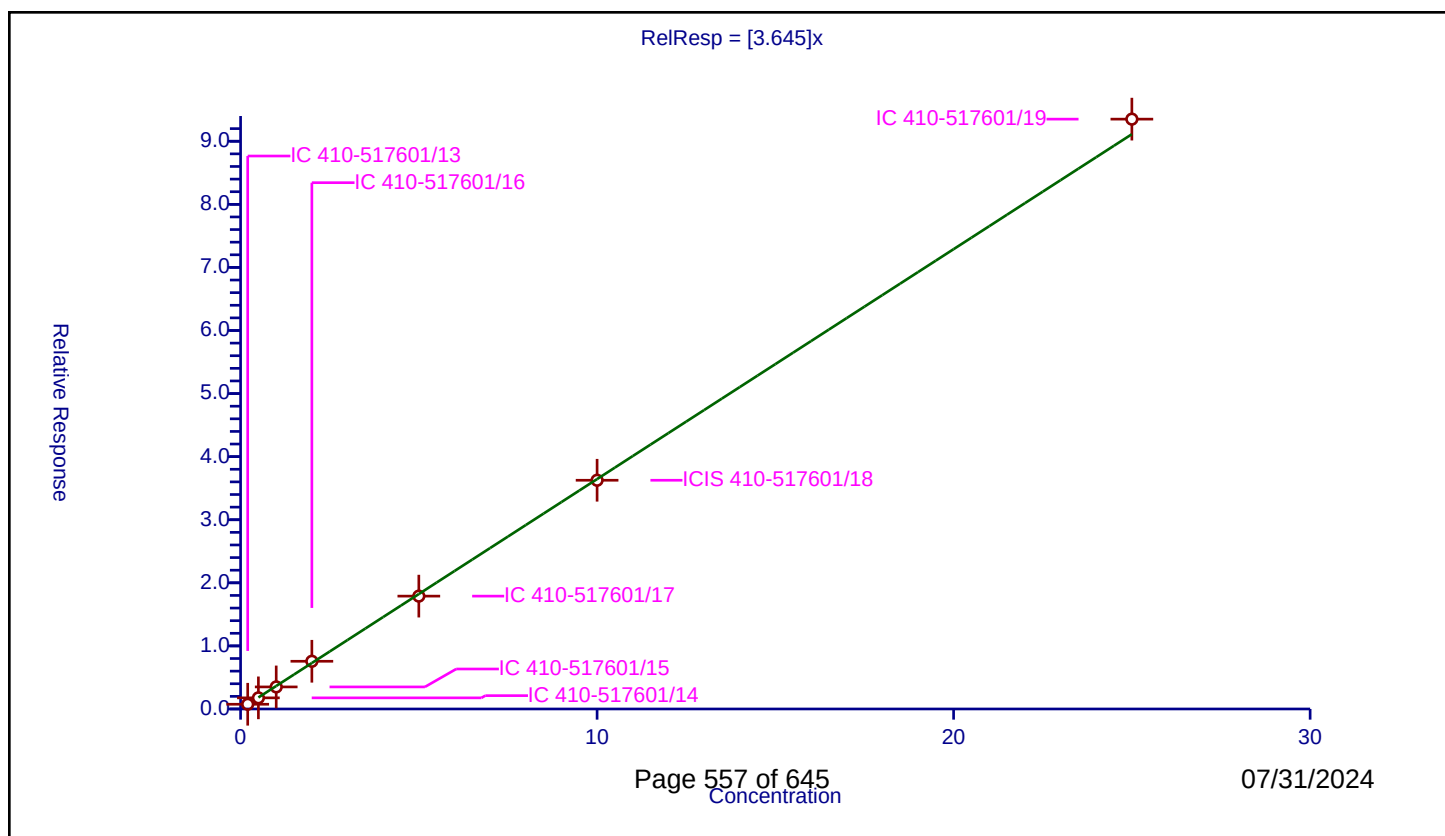
Curve Coefficients

Intercept: 0
Slope: 3.645

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.751422	10.0	1015421.0	3.757112	Y
2	IC 410-517601/14	0.5	1.766078	10.0	1026393.0	3.532156	Y
3	IC 410-517601/15	1.0	3.497059	10.0	1014032.0	3.497059	Y
4	IC 410-517601/16	2.0	7.564417	10.0	1002844.0	3.782208	Y
5	IC 410-517601/17	5.0	17.890645	10.0	1046571.0	3.578129	Y
6	ICIS 410-517601/18	10.0	36.260583	10.0	1059823.0	3.626058	Y
7	IC 410-517601/19	25.0	93.505131	10.0	1044446.0	3.740205	Y

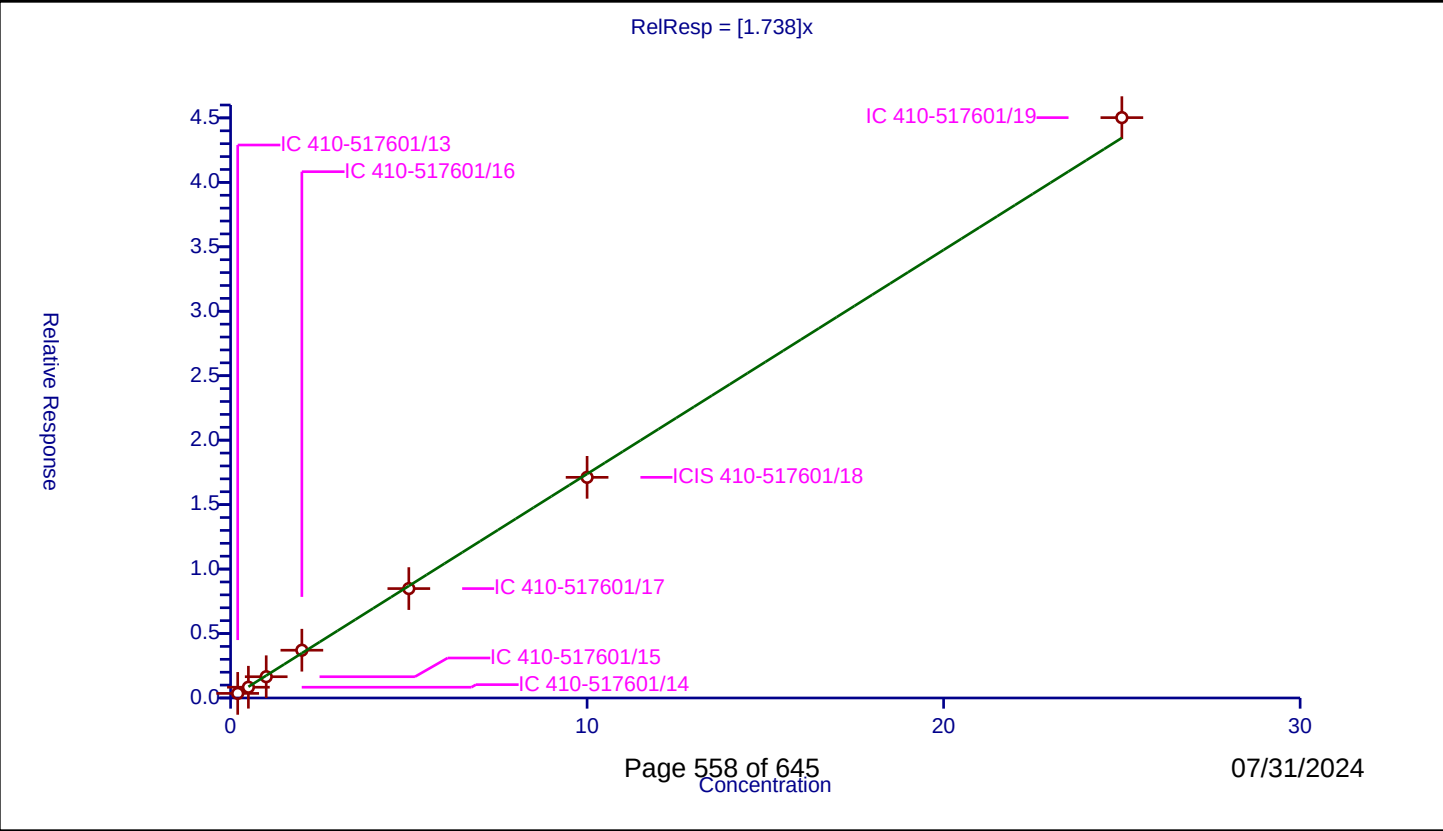


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.738

Error Coefficients	
Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.357202	10.0	1015421.0	1.786008	Y
2	IC 410-517601/14	0.5	0.833687	10.0	1026393.0	1.667373	Y
3	IC 410-517601/15	1.0	1.649277	10.0	1014032.0	1.649277	Y
4	IC 410-517601/16	2.0	3.70589	10.0	1002844.0	1.852945	Y
5	IC 410-517601/17	5.0	8.487031	10.0	1046571.0	1.697406	Y
6	ICIS 410-517601/18	10.0	17.116254	10.0	1059823.0	1.711625	Y
7	IC 410-517601/19	25.0	45.022251	10.0	1044446.0	1.80089	Y



Calibration

/ 4-Isopropyltoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

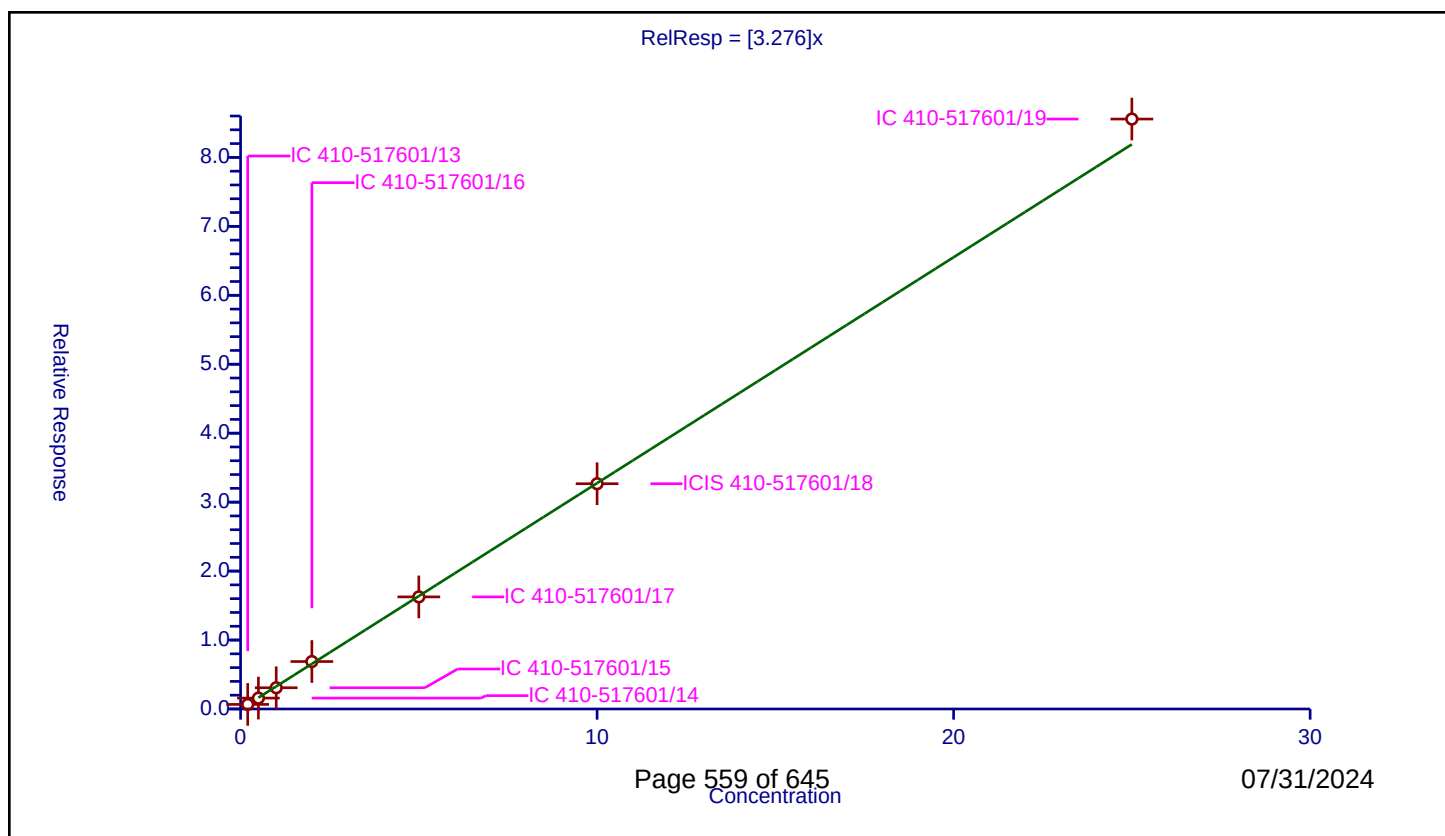
Curve Coefficients

Intercept: 0
 Slope: 3.276

Error Coefficients

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.661952	10.0	1015421.0	3.30976	Y
2	IC 410-517601/14	0.5	1.578489	10.0	1026393.0	3.156978	Y
3	IC 410-517601/15	1.0	3.081707	10.0	1014032.0	3.081707	Y
4	IC 410-517601/16	2.0	6.881828	10.0	1002844.0	3.440914	Y
5	IC 410-517601/17	5.0	16.257387	10.0	1046571.0	3.251477	Y
6	ICIS 410-517601/18	10.0	32.668908	10.0	1059823.0	3.266891	Y
7	IC 410-517601/19	25.0	85.558028	10.0	1044446.0	3.422321	Y



Calibration

/ 1,4-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

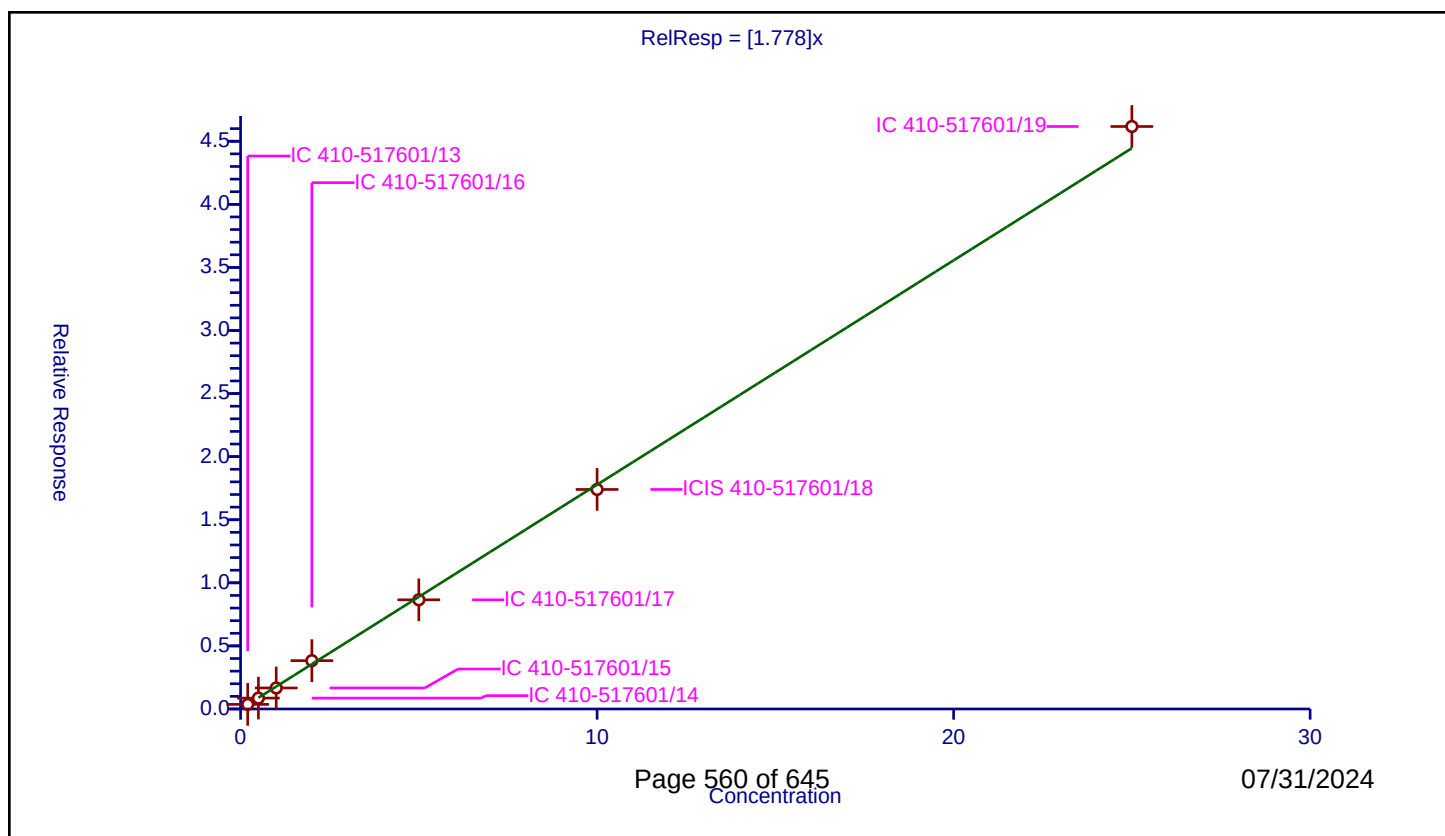
Curve Coefficients

Intercept: 0
Slope: 1.778

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.364105	10.0	1015421.0	1.820526	Y
2	IC 410-517601/14	0.5	0.862652	10.0	1026393.0	1.725304	Y
3	IC 410-517601/15	1.0	1.66691	10.0	1014032.0	1.66691	Y
4	IC 410-517601/16	2.0	3.830965	10.0	1002844.0	1.915482	Y
5	IC 410-517601/17	5.0	8.653422	10.0	1046571.0	1.730684	Y
6	ICIS 410-517601/18	10.0	17.400264	10.0	1059823.0	1.740026	Y
7	IC 410-517601/19	25.0	46.169941	10.0	1044446.0	1.846798	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

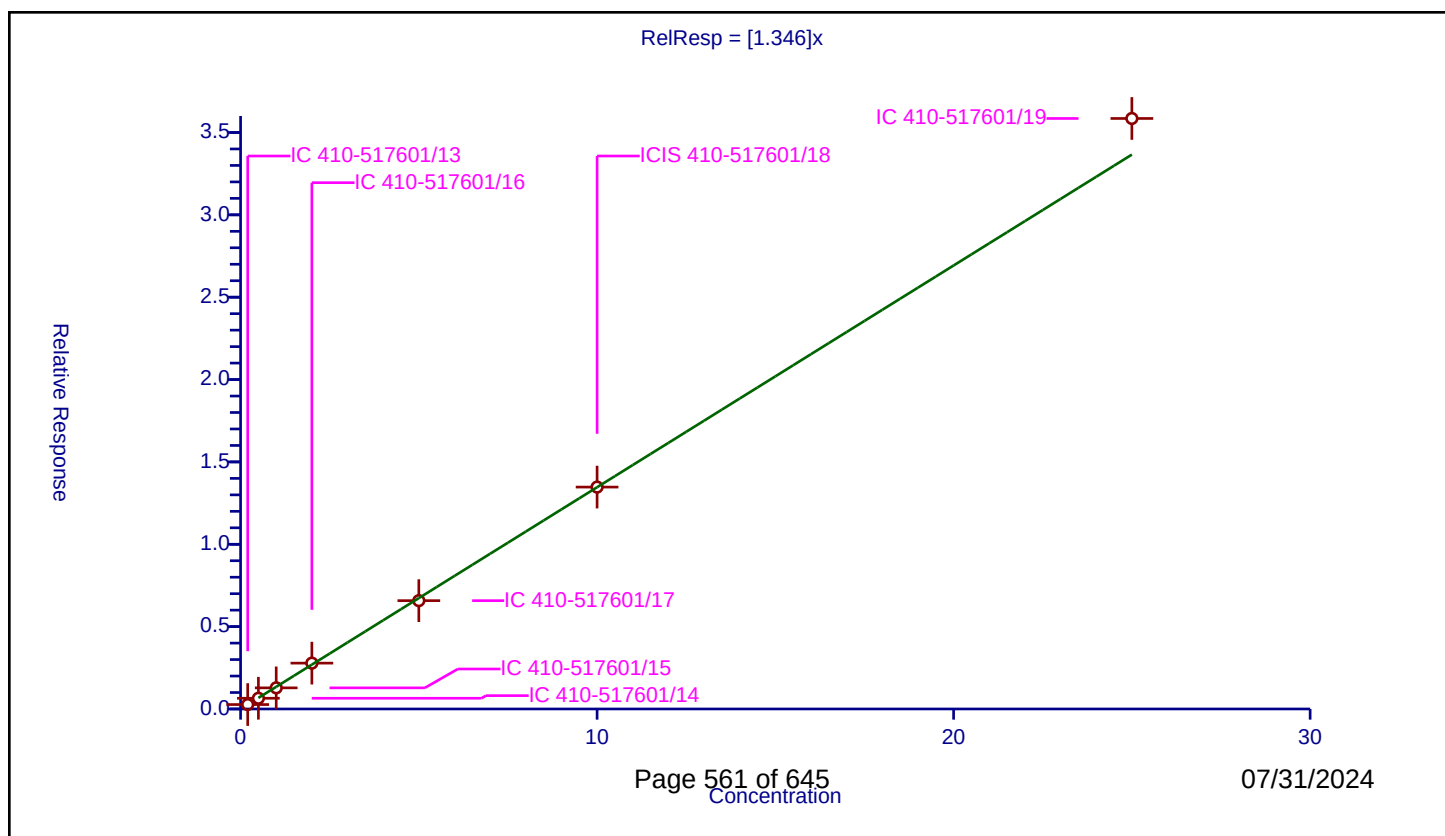
Curve Coefficients

Intercept: 0
 Slope: 1.346

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.269671	10.0	1015421.0	1.348357	Y
2	IC 410-517601/14	0.5	0.652109	10.0	1026393.0	1.304218	Y
3	IC 410-517601/15	1.0	1.283322	10.0	1014032.0	1.283322	Y
4	IC 410-517601/16	2.0	2.783035	10.0	1002844.0	1.391518	Y
5	IC 410-517601/17	5.0	6.576697	10.0	1046571.0	1.315339	Y
6	ICIS 410-517601/18	10.0	13.47258	10.0	1059823.0	1.347258	Y
7	IC 410-517601/19	25.0	35.850604	10.0	1044446.0	1.434024	Y



Calibration

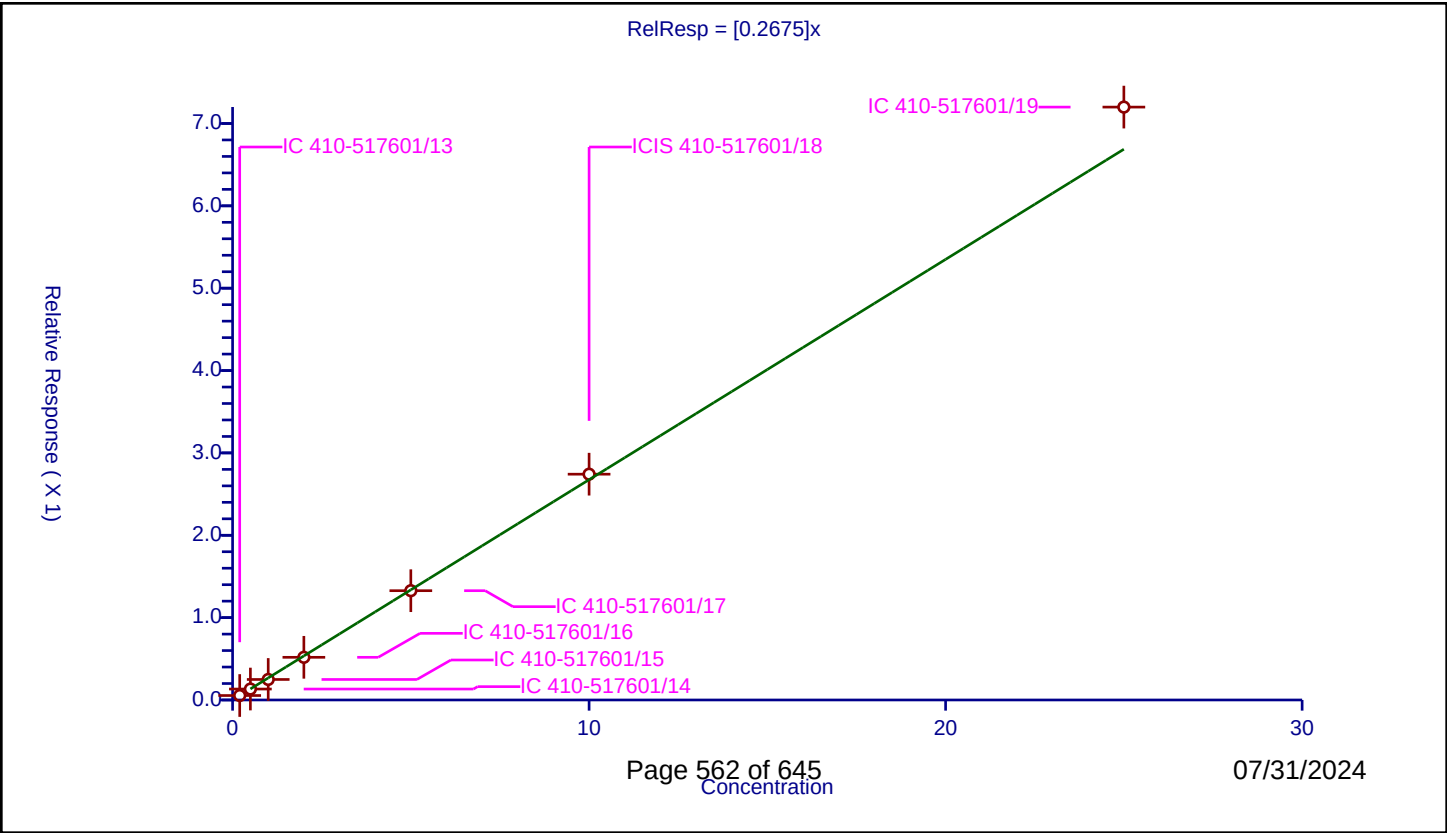
/ Benzyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2675
Error Coefficients	

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.054224	10.0	1015421.0	0.271119	Y
2	IC 410-517601/14	0.5	0.132873	10.0	1026393.0	0.265746	Y
3	IC 410-517601/15	1.0	0.249026	10.0	1014032.0	0.249026	Y
4	IC 410-517601/16	2.0	0.518136	10.0	1002844.0	0.259068	Y
5	IC 410-517601/17	5.0	1.326933	10.0	1046571.0	0.265387	Y
6	ICIS 410-517601/18	10.0	2.741713	10.0	1059823.0	0.274171	Y
7	IC 410-517601/19	25.0	7.198965	10.0	1044446.0	0.287959	Y



Calibration

/ n-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

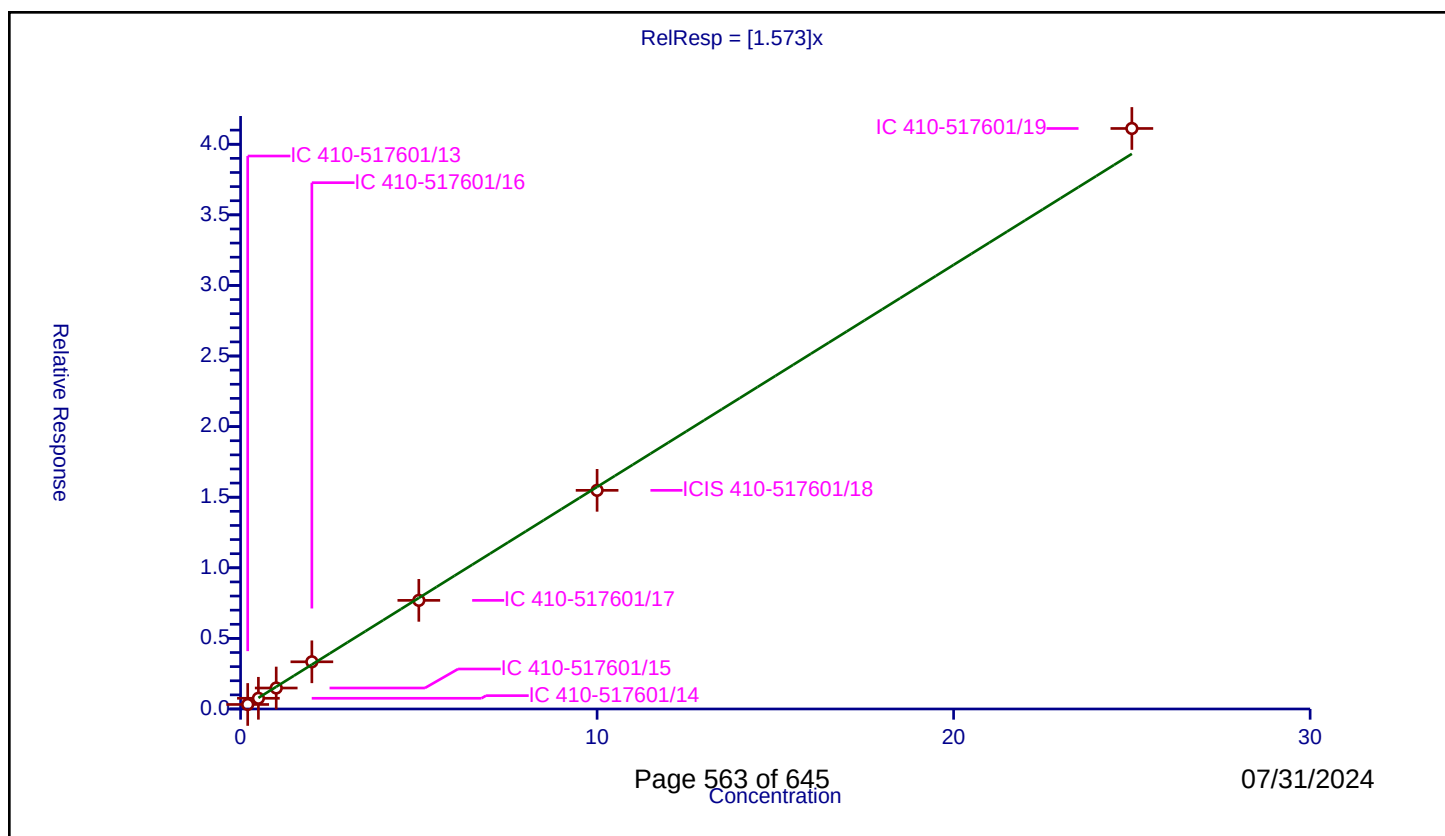
Curve Coefficients

Intercept: 0
Slope: 1.573

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.320626	10.0	1015421.0	1.603128	Y
2	IC 410-517601/14	0.5	0.758569	10.0	1026393.0	1.517138	Y
3	IC 410-517601/15	1.0	1.486344	10.0	1014032.0	1.486344	Y
4	IC 410-517601/16	2.0	3.341946	10.0	1002844.0	1.670973	Y
5	IC 410-517601/17	5.0	7.693143	10.0	1046571.0	1.538629	Y
6	ICIS 410-517601/18	10.0	15.486643	10.0	1059823.0	1.548664	Y
7	IC 410-517601/19	25.0	41.117789	10.0	1044446.0	1.644712	Y



Calibration

/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

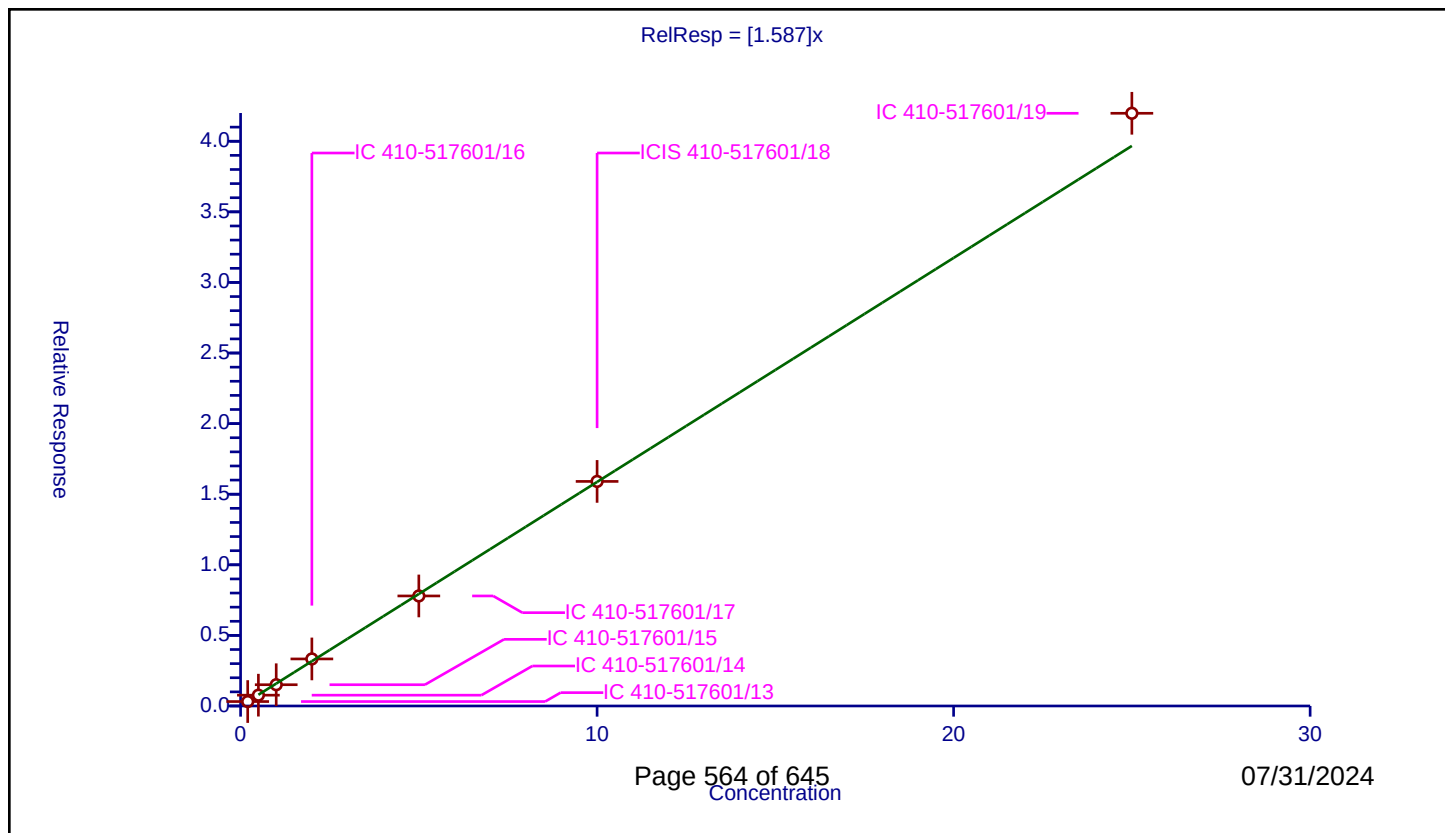
Curve Coefficients

Intercept: 0
Slope: 1.587

Error Coefficients

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.314904	10.0	1015421.0	1.574519	Y
2	IC 410-517601/14	0.5	0.765886	10.0	1026393.0	1.531772	Y
3	IC 410-517601/15	1.0	1.506728	10.0	1014032.0	1.506728	Y
4	IC 410-517601/16	2.0	3.332054	10.0	1002844.0	1.666027	Y
5	IC 410-517601/17	5.0	7.793537	10.0	1046571.0	1.558707	Y
6	ICIS 410-517601/18	10.0	15.906298	10.0	1059823.0	1.59063	Y
7	IC 410-517601/19	25.0	41.980294	10.0	1044446.0	1.679212	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

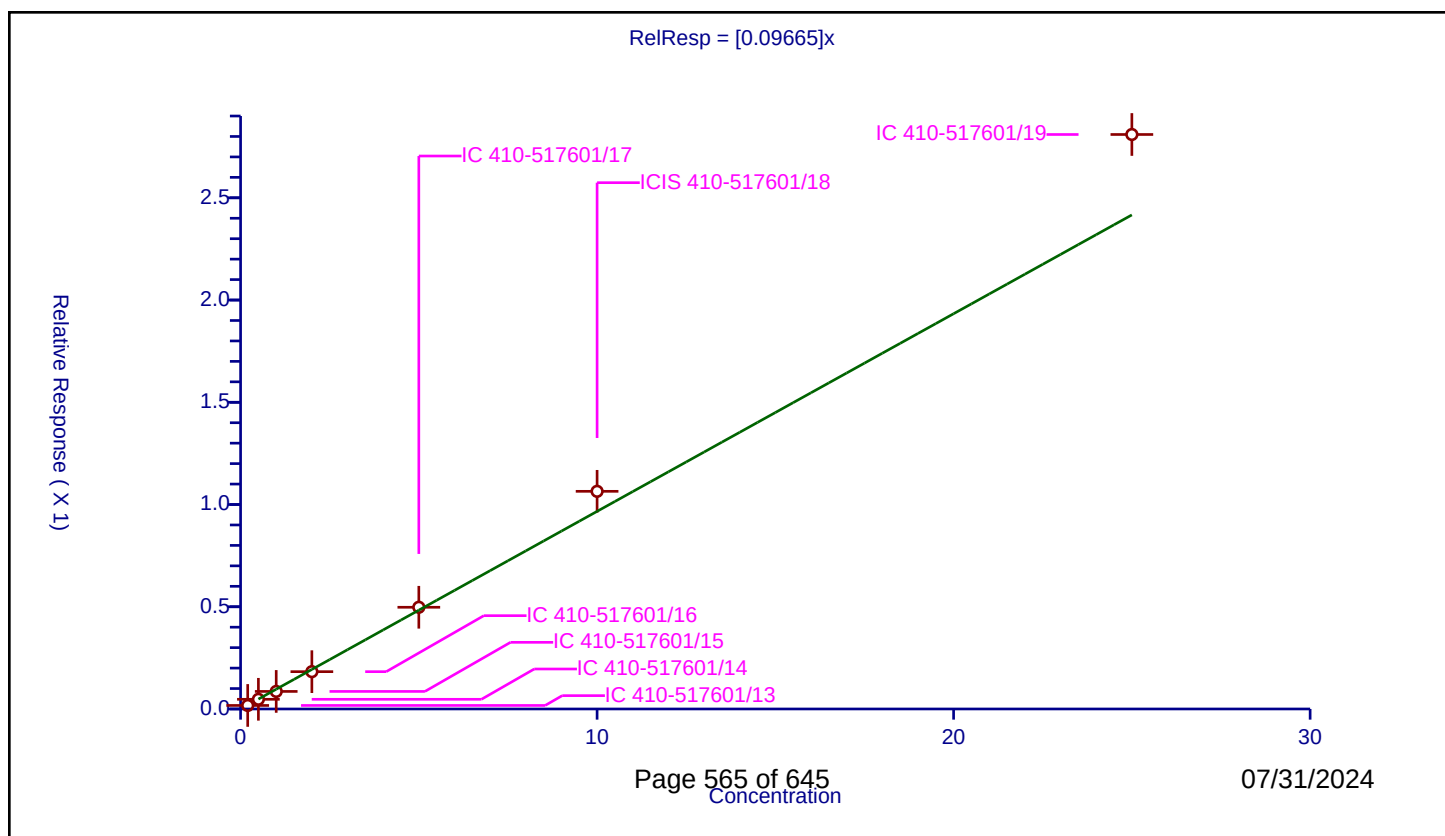
Curve Coefficients

Intercept: 0
Slope: 0.09665

Error Coefficients

Relative Standard Deviation: 10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.017224	10.0	1015421.0	0.086122	Y
2	IC 410-517601/14	0.5	0.047467	10.0	1026393.0	0.094934	Y
3	IC 410-517601/15	1.0	0.085914	10.0	1014032.0	0.085914	Y
4	IC 410-517601/16	2.0	0.182541	10.0	1002844.0	0.09127	Y
5	IC 410-517601/17	5.0	0.497501	10.0	1046571.0	0.0995	Y
6	ICIS 410-517601/18	10.0	1.06448	10.0	1059823.0	0.106448	Y
7	IC 410-517601/19	25.0	2.809614	10.0	1044446.0	0.112385	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

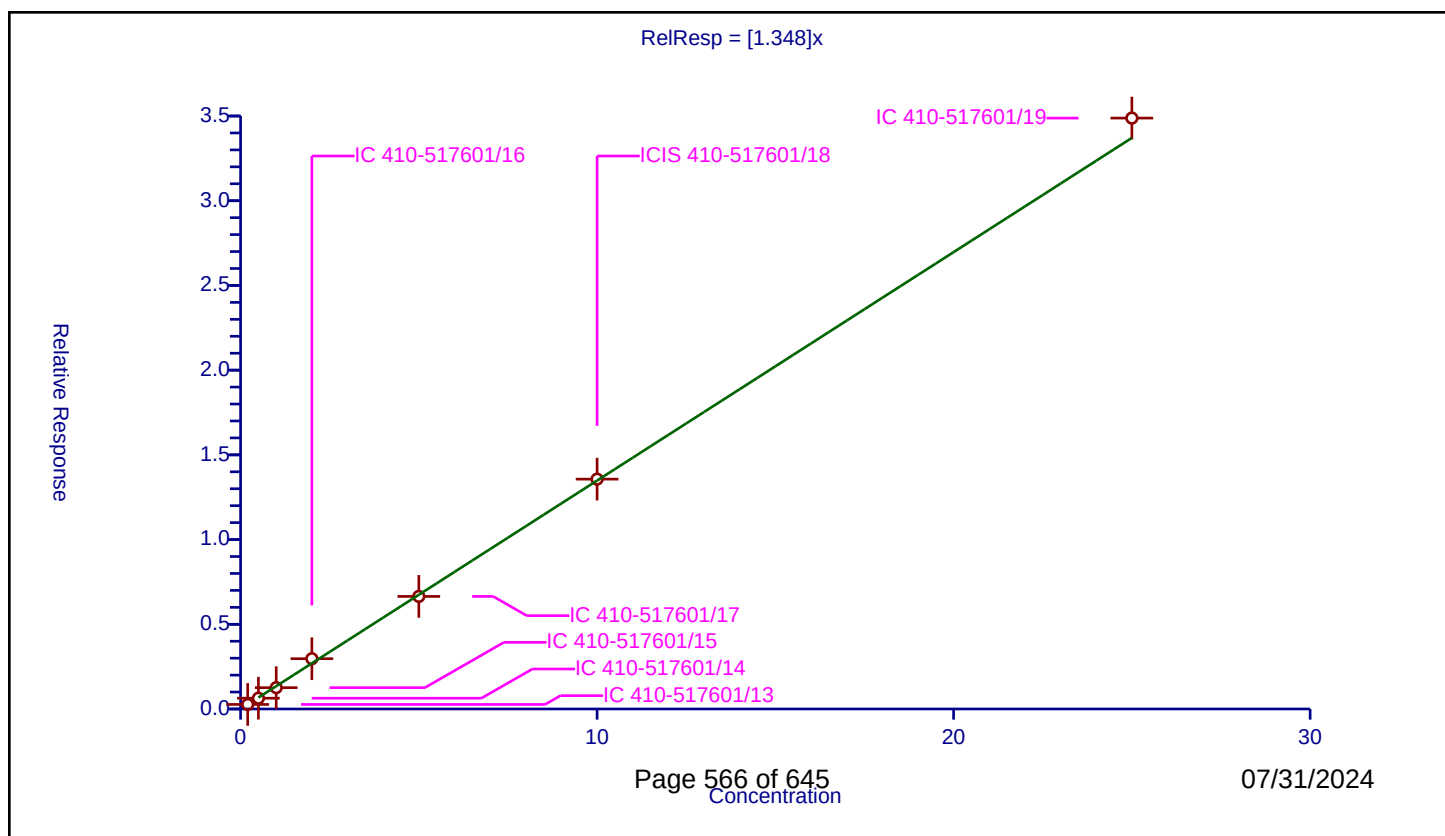
Curve Coefficients

Intercept: 0
Slope: 1.348

Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.268362	10.0	1015421.0	1.341808	Y
2	IC 410-517601/14	0.5	0.636394	10.0	1026393.0	1.272787	Y
3	IC 410-517601/15	1.0	1.258875	10.0	1014032.0	1.258875	Y
4	IC 410-517601/16	2.0	2.96773	10.0	1002844.0	1.483865	Y
5	IC 410-517601/17	5.0	6.644633	10.0	1046571.0	1.328927	Y
6	ICIS 410-517601/18	10.0	13.567445	10.0	1059823.0	1.356744	Y
7	IC 410-517601/19	25.0	34.87783	10.0	1044446.0	1.395113	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

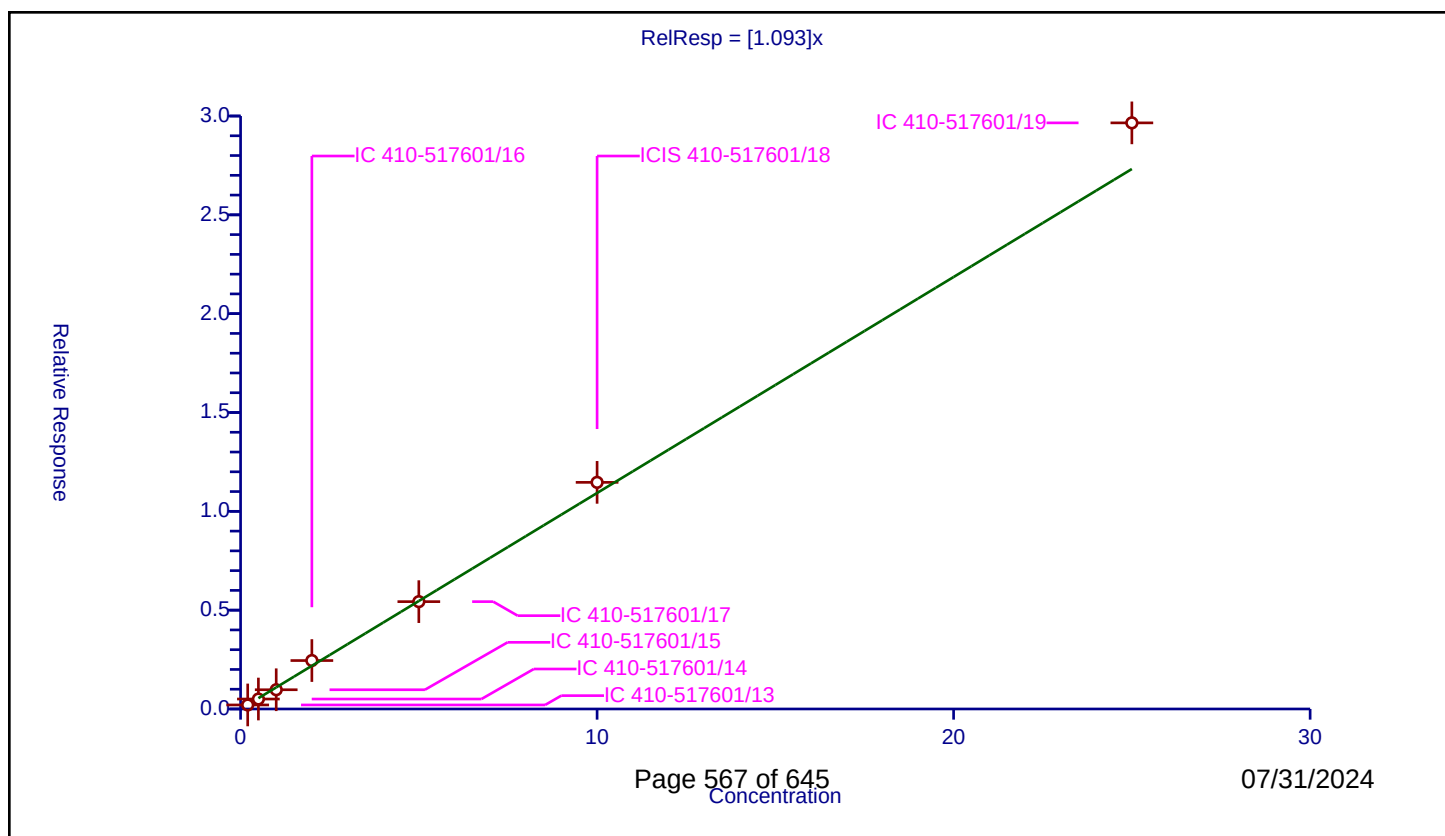
Curve Coefficients

Intercept: 0
Slope: 1.093

Error Coefficients

Relative Standard Deviation: 8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.204684	10.0	1015421.0	1.023418	Y
2	IC 410-517601/14	0.5	0.50393	10.0	1026393.0	1.00786	Y
3	IC 410-517601/15	1.0	0.973549	10.0	1014032.0	0.973549	Y
4	IC 410-517601/16	2.0	2.451129	10.0	1002844.0	1.225564	Y
5	IC 410-517601/17	5.0	5.43127	10.0	1046571.0	1.086254	Y
6	ICIS 410-517601/18	10.0	11.465348	10.0	1059823.0	1.146535	Y
7	IC 410-517601/19	25.0	29.653568	10.0	1044446.0	1.186143	Y

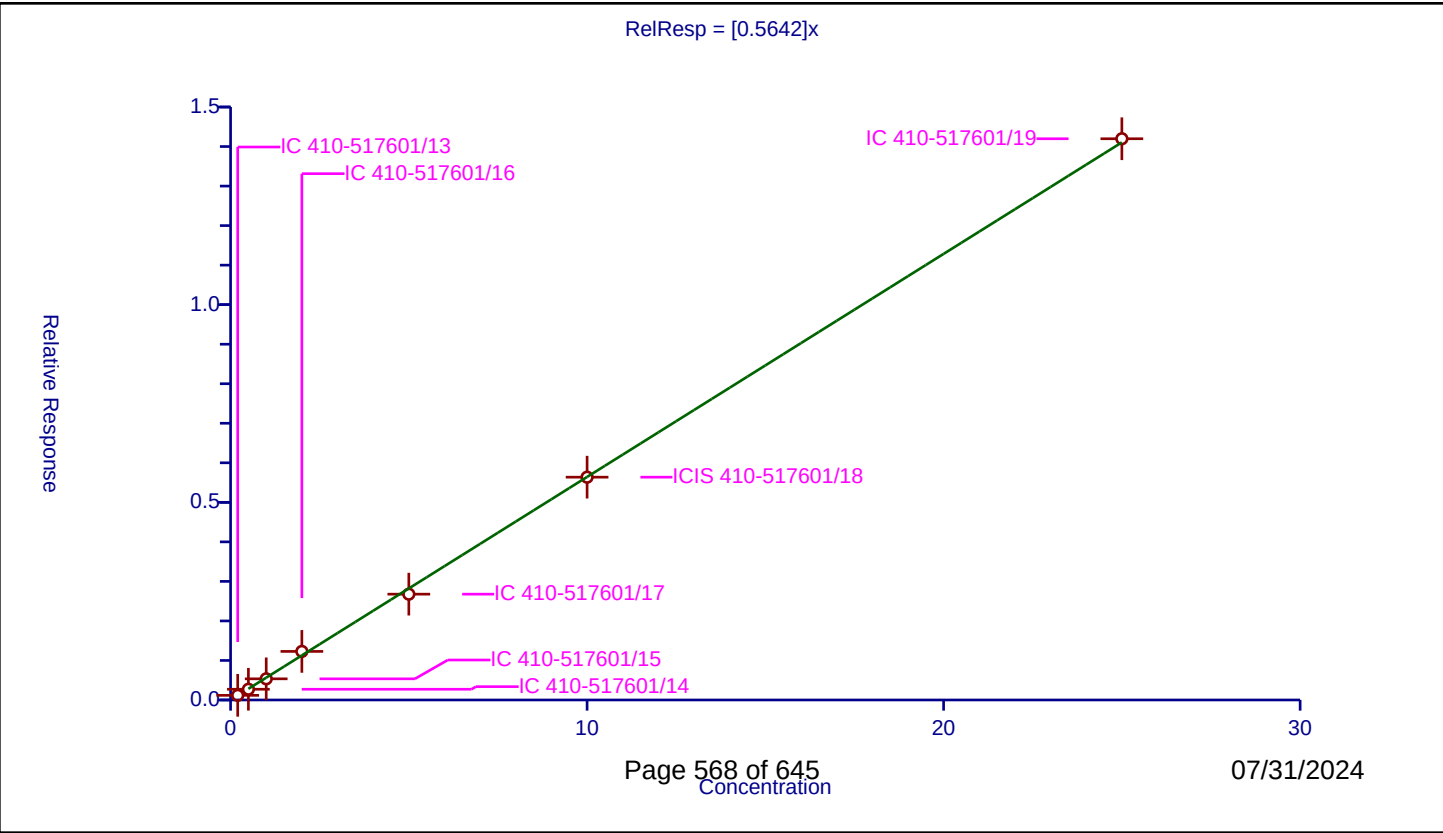


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5642
Error Coefficients	

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.117981	10.0	1015421.0	0.589903	Y
2	IC 410-517601/14	0.5	0.271582	10.0	1026393.0	0.543164	Y
3	IC 410-517601/15	1.0	0.535151	10.0	1014032.0	0.535151	Y
4	IC 410-517601/16	2.0	1.228805	10.0	1002844.0	0.614403	Y
5	IC 410-517601/17	5.0	2.677238	10.0	1046571.0	0.535448	Y
6	ICIS 410-517601/18	10.0	5.636054	10.0	1059823.0	0.563605	Y
7	IC 410-517601/19	25.0	14.197575	10.0	1044446.0	0.567903	Y



Calibration

/ Naphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

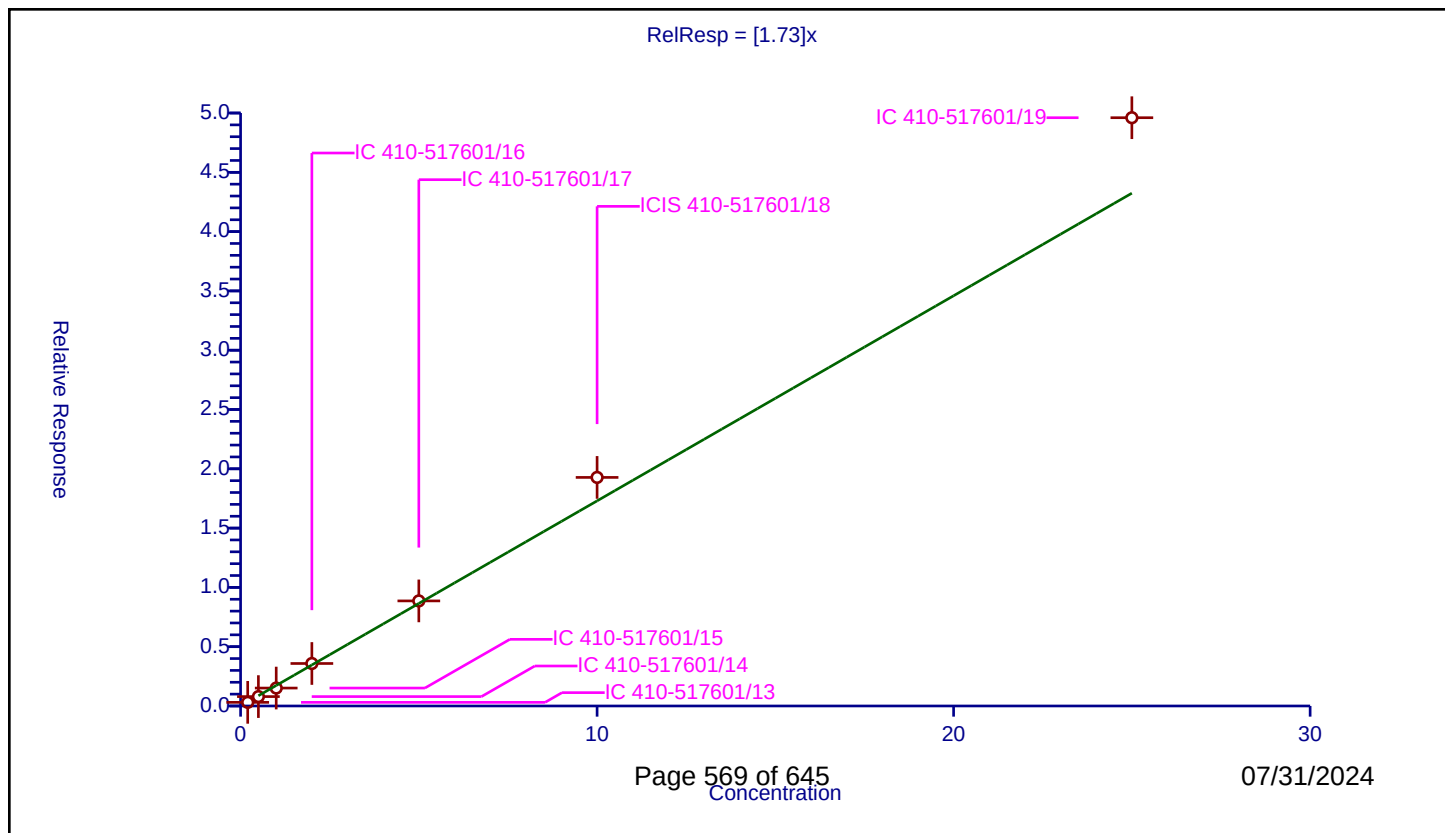
Curve Coefficients

Intercept: 0
Slope: 1.73

Error Coefficients

Relative Standard Deviation: 11.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.307153	10.0	1015421.0	1.535767	Y
2	IC 410-517601/14	0.5	0.792192	10.0	1026393.0	1.584383	Y
3	IC 410-517601/15	1.0	1.511964	10.0	1014032.0	1.511964	Y
4	IC 410-517601/16	2.0	3.582461	10.0	1002844.0	1.791231	Y
5	IC 410-517601/17	5.0	8.861272	10.0	1046571.0	1.772254	Y
6	ICIS 410-517601/18	10.0	19.272416	10.0	1059823.0	1.927242	Y
7	IC 410-517601/19	25.0	49.60334	10.0	1044446.0	1.984134	Y



Calibration

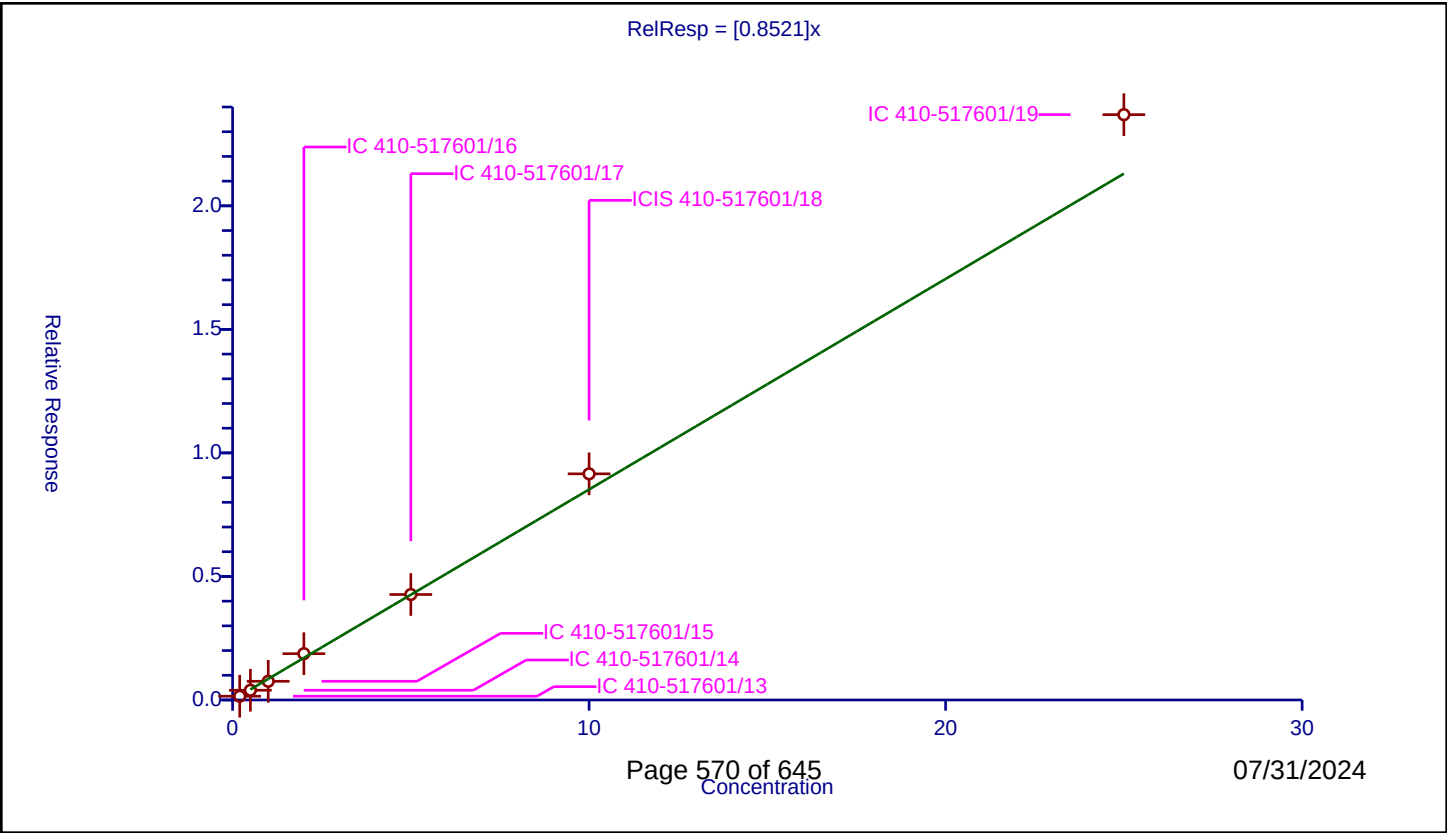
/ 1,2,3-Trichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8521
Error Coefficients	

Relative Standard Deviation: 9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-517601/13	0.2	0.152813	10.0	1015421.0	0.764067	Y
2	IC 410-517601/14	0.5	0.394975	10.0	1026393.0	0.789951	Y
3	IC 410-517601/15	1.0	0.756613	10.0	1014032.0	0.756613	Y
4	IC 410-517601/16	2.0	1.874648	10.0	1002844.0	0.937324	Y
5	IC 410-517601/17	5.0	4.26918	10.0	1046571.0	0.853836	Y
6	ICIS 410-517601/18	10.0	9.152981	10.0	1059823.0	0.915298	Y
7	IC 410-517601/19	25.0	23.691268	10.0	1044446.0	0.947651	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.: _____

Lab Sample ID: ICV 410-517601/21

Calibration Date: 06/15/2024 01:30

Instrument ID: 10193

Calib Start Date: 06/14/2024 22:28

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

Calib End Date: 06/15/2024 00:45

Lab File ID: CU14X20.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	0.3321	0.2739	0.1000	4.12	5.00	-17.5	30.0
Chloromethane	Ave	0.3752	0.3285	0.1000	4.38	5.00	-12.5	30.0
Vinyl chloride	Ave	0.3692	0.3265	0.1000	4.42	5.00	-11.6	30.0
1,3-Butadiene	Ave	0.3946	0.3066		3.89	5.00	-22.3	30.0
Bromomethane	Ave	0.2597	0.2385	0.1000	4.59	5.00	-8.2	30.0
Chloroethane	Ave	0.2114	0.1931	0.1000	4.57	5.00	-8.7	30.0
Dichlorofluoromethane	Ave	0.5478	0.4590		4.19	5.00	-16.2	30.0
Trichlorofluoromethane	Ave	0.4296	0.3949	0.1000	4.60	5.00	-8.1	30.0
Ethyl ether	Ave	0.1940	0.1874		4.81	4.98	-3.4	30.0
Freon 123a	Ave	0.3161	0.2906		4.60	5.00	-8.1	30.0
Acrolein	Ave	1.927	1.393		27.2	37.6	-27.7	30.0
1,1-Dichloroethene	Ave	0.2288	0.2409	0.1000	5.27	5.00	5.3	30.0
Acetone	Ave	2.480	2.461	0.1000	62.0	62.5	-0.8	30.0
Freon 113	Ave	0.2354	0.2164	0.1000	4.60	5.00	-8.1	30.0
Methyl iodide	Ave	0.4764	0.4778		5.01	5.00	0.3	30.0
Ethyl bromide	Ave	0.2083	0.2248		5.09	4.72	7.9	30.0
Carbon disulfide	Ave	0.7426	0.7638	0.1000	5.14	5.00	2.9	30.0
Methyl acetate	Ave	7.119	7.001	0.1000	4.92	5.00	-1.7	30.0
Allyl chloride	Ave	0.3800	0.3664		4.82	5.00	-3.6	30.0
Methylene Chloride	Ave	0.2726	0.2679	0.1000	4.91	5.00	-1.7	30.0
t-Butyl alcohol	Ave	0.9667	1.028		53.1	50.0	6.3	30.0
Acrylonitrile	Ave	3.621	3.690		25.5	25.0	1.9	30.0
Methyl tert-butyl ether	Ave	0.6983	0.6832	0.1000	4.89	5.00	-2.2	30.0
trans-1,2-Dichloroethene	Ave	0.2730	0.2774	0.1000	5.08	5.00	1.6	30.0
n-Hexane	Ave	0.3546	0.3454		4.87	5.00	-2.6	30.0
1,1-Dichloroethane	Ave	0.4690	0.4860	0.2000	5.18	5.00	3.6	30.0
di-Isopropyl ether	Ave	0.8360	0.8106		4.85	5.00	-3.0	30.0
2-Chloro-1,3-butadiene	Ave	0.3890	0.3804		4.89	5.00	-2.2	30.0
Ethyl t-butyl ether	Ave	0.8190	0.8225		5.02	5.00	0.4	30.0
2-Butanone (MEK)	Ave	4.550	4.914	0.1000	67.5	62.5	8.0	30.0
cis-1,2-Dichloroethene	Ave	0.3067	0.3126	0.1000	5.10	5.00	1.9	30.0
2,2-Dichloropropane	Ave	0.3888	0.3824		4.92	5.00	-1.6	30.0
Propionitrile	Ave	1.228	1.460		44.6	37.5	19.0	30.0
Methacrylonitrile	Ave	4.499	4.972		41.4	37.5	10.5	30.0
Bromochloromethane	Ave	0.1416	0.1470		5.19	5.00	3.8	30.0
Tetrahydrofuran	Ave	1.421	1.464		25.8	25.0	3.0	30.0
Chloroform	Ave	0.4969	0.4803	0.2000	4.83	5.00	-3.3	30.0
1,1,1-Trichloroethane	Ave	0.4151	0.4275	0.1000	5.15	5.00	3.0	30.0
Cyclohexane	Ave	0.4421	0.4202	0.1000	4.75	5.00	-5.0	30.0
Carbon tetrachloride	Ave	0.3759	0.3864	0.1000	5.14	5.00	2.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.: _____

Lab Sample ID: ICV 410-517601/21

Calibration Date: 06/15/2024 01:30

Instrument ID: 10193

Calib Start Date: 06/14/2024 22:28

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

Calib End Date: 06/15/2024 00:45

Lab File ID: CU14X20.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
1,1-Dichloropropene	Ave	0.3711	0.3729		5.02	5.00	0.5	30.0
Isobutyl alcohol	Ave	0.3468	0.3811		137	125	9.9	30.0
Benzene	Ave	1.115	1.128	0.5000	5.06	5.00	1.2	30.0
1,2-Dichloroethane	Ave	0.2845	0.2922	0.1000	5.14	5.00	2.7	30.0
t-Amyl methyl ether	Ave	0.7612	0.7594		4.99	5.00	-0.2	30.0
n-Heptane	Ave	0.3677	0.3772		5.13	5.00	2.6	30.0
n-Butanol	Ave	0.3188	0.3694		290	250	15.9	30.0
Trichloroethene	Ave	0.3070	0.3041	0.2000	4.95	5.00	-1.0	30.0
Methylcyclohexane	Ave	0.4921	0.4789	0.1000	4.87	5.00	-2.7	30.0
1,2-Dichloropropane	Ave	0.2855	0.2874	0.1000	5.03	5.00	0.7	30.0
1,4-Dioxane	Ave	0.0626	0.0725	0.0050	145	125	16.0	30.0
Dibromomethane	Ave	0.1454	0.1453		5.00	5.00	-0.0	30.0
Methyl methacrylate	Ave	9.434	9.936		5.27	5.00	5.3	30.0
Bromodichloromethane	Ave	0.3445	0.3513	0.2000	5.10	5.00	2.0	30.0
2-Nitropropane	Ave	2.541	2.610		5.13	5.00	2.7	30.0
1-Bromo-2-chloroethane	Ave	0.2792	0.2891		5.18	5.00	3.5	30.0
cis-1,3-Dichloropropene	Ave	0.4460	0.4347	0.2000	4.87	5.00	-2.5	30.0
4-Methyl-2-pentanone (MIBK)	Ave	11.64	12.41	0.1000	66.6	62.5	6.6	30.0
Toluene	Ave	0.9498	0.9540	0.4000	5.02	5.00	0.4	30.0
trans-1,3-Dichloropropene	Ave	0.4840	0.4935	0.1000	5.10	5.00	2.0	30.0
Ethyl methacrylate	Ave	0.4146	0.4078		4.92	5.00	-1.6	30.0
1,1,2-Trichloroethane	Ave	0.2748	0.2728	0.1000	4.96	5.00	-0.8	30.0
Tetrachloroethene	Ave	0.4717	0.4871	0.2000	5.16	5.00	3.3	30.0
1,3-Dichloropropane	Ave	0.4567	0.4654		5.09	5.00	1.9	30.0
2-Hexanone	Ave	8.457	9.136	0.1000	67.5	62.5	8.0	30.0
Dibromochloromethane	Ave	0.3530	0.3642		5.16	5.00	3.2	30.0
1,2-Dibromoethane (EDB)	Ave	0.2725	0.2780	0.1000	5.10	5.00	2.0	30.0
1-Chlorohexane	Ave	0.5567	0.5116		4.60	5.00	-8.1	30.0
Chlorobenzene	Ave	1.135	1.156	0.5000	5.09	5.00	1.8	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4002	0.4080		5.10	5.00	1.9	30.0
Ethylbenzene	Ave	1.865	1.889	0.1000	5.07	5.00	1.3	30.0
m&p-Xylene	Ave	0.7638	0.7675	0.1000	10.0	10.0	0.5	30.0
o-Xylene	Ave	0.7529	0.7528	0.3000	5.00	5.00	-0.0	30.0
Styrene	Ave	1.248	1.276	0.3000	5.12	5.00	2.3	30.0
Bromoform	Ave	0.2276	0.2271	0.1000	4.99	5.00	-0.2	30.0
Isopropylbenzene	Ave	1.787	1.944	0.1000	5.44	5.00	8.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5837	0.5844	0.3000	5.01	5.00	0.1	30.0
Bromobenzene	Ave	0.8797	0.8865		5.04	5.00	0.8	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1371	0.1396		25.5	25.0	1.8	30.0
1,2,3-Trichloropropane	Ave	0.1621	0.1641		5.06	5.00	1.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Lab Sample ID: ICV 410-517601/21

Calibration Date: 06/15/2024 01:30

Instrument ID: 10193

Calib Start Date: 06/14/2024 22:28

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

Calib End Date: 06/15/2024 00:45

Lab File ID: CU14X20.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
N-Propylbenzene	Ave	3.782	3.855		5.10	5.00	1.9	30.0
2-Chlorotoluene	Ave	0.8480	0.8362		4.93	5.00	-1.4	30.0
1,3,5-Trimethylbenzene	Ave	2.825	2.852		5.05	5.00	1.0	30.0
4-Chlorotoluene	Ave	0.8841	0.8800		4.98	5.00	-0.5	30.0
tert-Butylbenzene	Ave	0.6793	0.6776		4.99	5.00	-0.2	30.0
Pentachloroethane	Ave	0.5092	0.5306		5.21	5.00	4.2	30.0
1,2,4-Trimethylbenzene	Ave	2.917	2.888		4.95	5.00	-1.0	30.0
sec-Butylbenzene	Ave	3.645	3.671		5.04	5.00	0.7	30.0
1,3-Dichlorobenzene	Ave	1.738	1.740	0.6000	5.00	5.00	0.0	30.0
p-Isopropyltoluene	Ave	3.276	3.278		5.00	5.00	0.0	30.0
1,4-Dichlorobenzene	Ave	1.778	1.786	0.5000	5.02	5.00	0.5	30.0
1,2,3-Trimethylbenzene	Ave	1.346	1.307		4.86	5.00	-2.9	30.0
Benzyl chloride	Ave	0.2675	0.2527		4.72	5.00	-5.5	30.0
n-Butylbenzene	Ave	1.573	1.571		4.99	5.00	-0.1	30.0
1,2-Dichlorobenzene	Ave	1.587	1.611	0.4000	5.08	5.00	1.5	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0967	0.0964	0.0500	4.99	5.00	-0.3	30.0
1,3,5-Trichlorobenzene	Ave	1.348	1.354		5.02	5.00	0.4	30.0
1,2,4-Trichlorobenzene	Ave	1.093	1.126	0.2000	5.15	5.00	3.1	30.0
Hexachlorobutadiene	Ave	0.5642	0.5869		5.20	5.00	4.0	30.0
Naphthalene	Ave	1.730	1.810		5.23	5.00	4.6	30.0
1,2,3-Trichlorobenzene	Ave	0.8521	0.8739		5.13	5.00	2.6	30.0
Dibromofluoromethane (Surr)	Ave	0.2422	0.2424		10.0	10.0	0.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0495	0.0493		9.95	10.0	-0.5	30.0
Toluene-d8 (Surr)	Ave	1.281	1.284		10.0	10.0	0.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4817	0.4806		9.98	10.0	-0.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X20.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 15-Jun-2024 01:30:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0116724-021
 Misc. Info.: ICV LG
 Operator ID: MEC29284 Instrument ID: 10193
 Sublist:
 Method: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 17-Jun-2024 19:29:21 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1606

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.793	1.799	-0.006	99	306908	5.00	4.12	
5 Chloromethane	50	1.976	1.982	-0.006	99	367985	5.00	4.38	
6 Vinyl chloride	62	2.079	2.085	-0.006	98	365803	5.00	4.42	
7 Butadiene	39	2.085	2.085	0.000	89	343507	5.00	3.89	
9 Bromomethane	94	2.396	2.396	0.000	90	267228	5.00	4.59	
10 Chloroethane	64	2.439	2.445	-0.006	100	216324	5.00	4.57	
11 Dichlorofluoromethane	67	2.683	2.689	-0.006	97	514185	5.00	4.19	
13 Pentane	43	2.732	2.738	-0.006	97	416644	5.00	5.07	
12 Trichlorofluoromethane	101	2.738	2.744	-0.006	98	442432	5.00	4.60	
14 Ethyl ether	59	2.921	2.921	0.000	90	209319	4.98	4.81	
16 1,2-Dichloro-1,1,2-trifluoroethane	67	3.012	3.018	-0.006	91	325544	5.00	4.60	
17 Acrolein	56	3.073	3.073	0.000	99	175224	37.6	27.2	M
18 1,1-Dichloroethene	96	3.189	3.195	-0.006	97	269920	5.00	5.27	
20 Acetone	43	3.219	3.219	0.000	100	514603	62.5	62.0	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.238	3.244	-0.006	90	242435	5.00	4.60	
24 Isopropyl alcohol	45	3.366	3.366	0.000	32	63696	37.5	37.3	
22 Iodomethane	142	3.366	3.372	-0.006	97	535254	5.00	5.01	
23 Ethyl bromide	108	3.390	3.396	-0.006	98	237468	4.72	5.09	
25 Carbon disulfide	76	3.457	3.463	-0.006	99	855773	5.00	5.14	
26 Methyl acetate	43	3.591	3.585	0.006	96	117135	5.00	4.92	
29 3-Chloro-1-propene	41	3.609	3.616	-0.007	93	410542	5.00	4.82	
30 Methylene Chloride	84	3.780	3.786	-0.006	90	300165	5.00	4.91	
* 31 t-Butyl alcohol-d10 (IS)	65	3.798	3.798	0.000	96	167301	50.0	50.0	
32 2-Methyl-2-propanol	59	3.896	3.908	-0.012	100	171902	50.0	53.1	
33 Acrylonitrile	53	4.085	4.091	-0.006	99	308657	25.0	25.5	
35 trans-1,2-Dichloroethene	96	4.146	4.146	0.000	99	310740	5.00	5.08	
34 Methyl tert-butyl ether	73	4.134	4.146	-0.012	91	765449	5.00	4.89	
36 Hexane	57	4.560	4.561	-0.001	91	386921	5.00	4.87	
37 1,1-Dichloroethane	63	4.798	4.804	-0.006	95	544453	5.00	5.18	
39 Isopropyl ether	45	4.865	4.871	-0.006	93	908141	5.00	4.85	
40 2-Chloro-1,3-butadiene	53	4.914	4.914	0.000	89	426166	5.00	4.89	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Tert-butyl ethyl ether	59	5.408	5.414	-0.006	98	921437	5.00	5.02	
42 2-Butanone (MEK)	43	5.615	5.615	0.000	99	1027603	62.5	67.5	
43 cis-1,2-Dichloroethene	96	5.646	5.652	-0.006	80	350271	5.00	5.10	
44 2,2-Dichloropropane	77	5.664	5.670	-0.006	86	428432	5.00	4.92	
45 Propionitrile	54	5.713	5.719	-0.006	98	183237	37.5	44.6	
47 Methacrylonitrile	67	5.926	5.926	0.000	91	623852	37.5	41.4	
49 Tetrahydrofuran	71	5.981	5.981	0.000	78	122488	25.0	25.8	
48 Chlorobromomethane	128	5.981	5.987	-0.006	88	164746	5.00	5.19	
50 Chloroform	83	6.146	6.146	0.000	93	538142	5.00	4.83	
\$ 54 Dibromofluoromethane (Surr)	113	6.359	6.365	-0.006	94	543249	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.365	6.371	-0.006	98	478951	5.00	5.15	
55 Cyclohexane	56	6.463	6.463	0.000	89	470773	5.00	4.75	
57 1,1-Dichloropropene	75	6.584	6.585	0.000	97	417764	5.00	5.02	
56 Carbon tetrachloride	117	6.578	6.585	-0.006	95	432932	5.00	5.14	
58 Isobutyl alcohol	41	6.773	6.780	-0.007	96	159396	125.0	137.4	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.816	6.822	-0.006	99	110492	10.0	9.95	
60 Benzene	78	6.847	6.853	-0.006	96	1263998	5.00	5.06	
61 1,2-Dichloroethane	62	6.926	6.926	0.000	97	327399	5.00	5.14	
64 Tert-amyl methyl ether	73	7.060	7.060	0.000	98	850822	5.00	4.99	
* 65 Fluorobenzene (IS)	96	7.267	7.267	0.000	99	2240698	10.0	10.0	
66 n-Heptane	43	7.279	7.286	-0.007	93	422580	5.00	5.13	
67 n-Butanol	56	7.682	7.682	0.000	87	309031	250.0	289.7	
68 Trichloroethene	95	7.749	7.755	-0.006	96	340674	5.00	4.95	
69 Methylcyclohexane	83	8.066	8.066	0.000	90	536531	5.00	4.87	
70 1,2-Dichloropropane	63	8.090	8.096	-0.006	97	321941	5.00	5.03	
71 2-ethoxy-2-methyl butane	87	8.121	8.127	-0.006	94	494865	5.00	4.76	
74 1,4-Dioxane	88	8.194	8.194	0.000	29	30336	125.0	144.9	M
73 Methyl methacrylate	69	8.200	8.200	0.000	91	166236	5.00	5.27	
72 Dibromomethane	93	8.200	8.206	-0.006	91	162770	5.00	5.00	
76 Dichlorobromomethane	83	8.450	8.456	-0.006	99	393571	5.00	5.10	
77 2-Nitropropane	41	8.743	8.743	0.000	98	43662	5.00	5.13	
78 1-Bromo-2-chloroethane	63	8.846	8.846	0.000	98	323900	5.00	5.18	
80 cis-1,3-Dichloropropene	75	9.029	9.029	0.000	97	486992	5.00	4.87	
82 4-Methyl-2-pentanone (MIBK)	43	9.230	9.230	0.000	96	2594630	62.5	66.6	
\$ 83 Toluene-d8 (Surr)	98	9.358	9.358	0.000	93	2264682	10.0	10.0	
84 Toluene	92	9.444	9.444	0.000	99	841448	5.00	5.02	
85 trans-1,3-Dichloropropene	75	9.730	9.730	0.000	91	435254	5.00	5.10	
86 Ethyl methacrylate	69	9.803	9.803	0.000	89	359653	5.00	4.92	
87 1,1,2-Trichloroethane	97	9.944	9.944	0.000	90	240583	5.00	4.96	
88 Tetrachloroethene	166	10.023	10.023	0.000	97	429622	5.00	5.16	
89 1,3-Dichloropropane	76	10.114	10.114	0.000	89	410481	5.00	5.09	
106 2-Hexanone	43	10.181	10.181	0.000	95	1910647	62.5	67.5	
108 Chlorodibromomethane	129	10.334	10.334	0.000	89	321200	5.00	5.16	
110 Ethylene Dibromide	107	10.443	10.444	-0.001	99	245181	5.00	5.10	
* 111 Chlorobenzene-d5 (IS)	117	10.901	10.901	0.000	83	1763975	10.0	10.0	
112 1-Chlorohexane	91	10.919	10.919	0.000	96	451247	5.00	4.60	
113 Chlorobenzene	112	10.925	10.925	0.000	98	1019194	5.00	5.09	
114 1,1,1,2-Tetrachloroethane	131	11.017	11.017	0.000	97	359809	5.00	5.10	
115 Ethylbenzene	91	11.023	11.023	0.000	98	1666395	5.00	5.07	
116 m-Xylene & p-Xylene	106	11.145	11.145	0.000	97	1353872	10.0	10.0	
118 o-Xylene	106	11.486	11.486	0.000	95	663921	5.00	5.00	
119 Styrene	104	11.498	11.498	0.000	95	1125690	5.00	5.12	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 Bromoform	173	11.657	11.657	0.000	98	200332	5.00	4.99	
121 Isopropylbenzene	105	11.797	11.797	0.000	95	1714682	5.00	5.44	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.943	11.943	0.000	96	847717	10.0	9.98	
126 1,1,2,2-Tetrachloroethane	83	12.053	12.053	0.000	69	301830	5.00	5.01	
125 Bromobenzene	156	12.059	12.059	0.000	86	457855	5.00	5.04	
127 trans-1,4-Dichloro-2-butene	53	12.083	12.083	0.000	89	360532	25.0	25.5	
128 1,2,3-Trichloropropane	110	12.096	12.096	0.000	80	84750	5.00	5.06	
129 N-Propylbenzene	91	12.138	12.138	0.000	98	1990939	5.00	5.10	
130 2-Chlorotoluene	126	12.211	12.211	0.000	98	431874	5.00	4.93	
131 1,3,5-Trimethylbenzene	105	12.278	12.279	-0.001	94	1472900	5.00	5.05	
132 4-Chlorotoluene	126	12.303	12.303	0.000	96	454521	5.00	4.98	
133 tert-Butylbenzene	134	12.522	12.522	0.000	92	350002	5.00	4.99	
134 Pentachloroethane	167	12.553	12.553	0.000	93	274044	5.00	5.21	
135 1,2,4-Trimethylbenzene	105	12.565	12.565	0.000	96	1491847	5.00	4.95	
136 sec-Butylbenzene	105	12.693	12.693	0.000	93	1895830	5.00	5.04	
137 1,3-Dichlorobenzene	146	12.784	12.785	-0.001	98	898477	5.00	5.00	
138 4-Isopropyltoluene	119	12.803	12.803	0.000	97	1693083	5.00	5.00	
* 139 1,4-Dichlorobenzene-d4	152	12.845	12.845	0.000	93	1032999	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.864	12.864	0.000	96	922681	5.00	5.02	
141 1,2,3-Trimethylbenzene	120	12.876	12.876	0.000	98	675223	5.00	4.86	
142 Benzyl chloride	126	12.943	12.943	0.000	98	130535	5.00	4.72	
145 p-Diethylbenzene	119	13.083	13.083	0.000	94	1059172	5.00	5.02	
143 n-Butylbenzene	92	13.101	13.102	-0.001	97	811519	5.00	4.99	
144 1,2-Dichlorobenzene	146	13.126	13.126	0.000	99	832218	5.00	5.08	
148 1,2-Dibromo-3-Chloropropane	155	13.681	13.681	0.000	91	49772	5.00	4.99	
149 1,3,5-Trichlorobenzene	180	13.803	13.803	0.000	97	699246	5.00	5.02	
150 1,2,4-Trichlorobenzene	180	14.235	14.235	0.000	94	581715	5.00	5.15	
151 Hexachlorobutadiene	225	14.321	14.321	0.000	97	303152	5.00	5.20	
152 Naphthalene	128	14.418	14.418	0.000	96	934653	5.00	5.23	
153 1,2,3-Trichlorobenzene	180	14.565	14.565	0.000	96	451385	5.00	5.13	
154 2-Methylnaphthalene	142	15.174	15.174	0.000	92	430962	5.00	5.45	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00171	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00201	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00009	Amount Added: 12.50	Units: uL	
LCS_ETBR_00008	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00174	Amount Added: 12.50	Units: uL	
MSV_LCS_Penta_00043	Amount Added: 12.50	Units: uL	
MSV_HP25_ISSS_00090	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 17-Jun-2024 19:47:53

Chrom Revision: 2.3 03-Jun-2024 20:58:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X20.D

Injection Date: 15-Jun-2024 01:30:30

Instrument ID: 10193

Operator ID: MEC29284

Lims ID: ICV

Worklist Smp#: 21

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

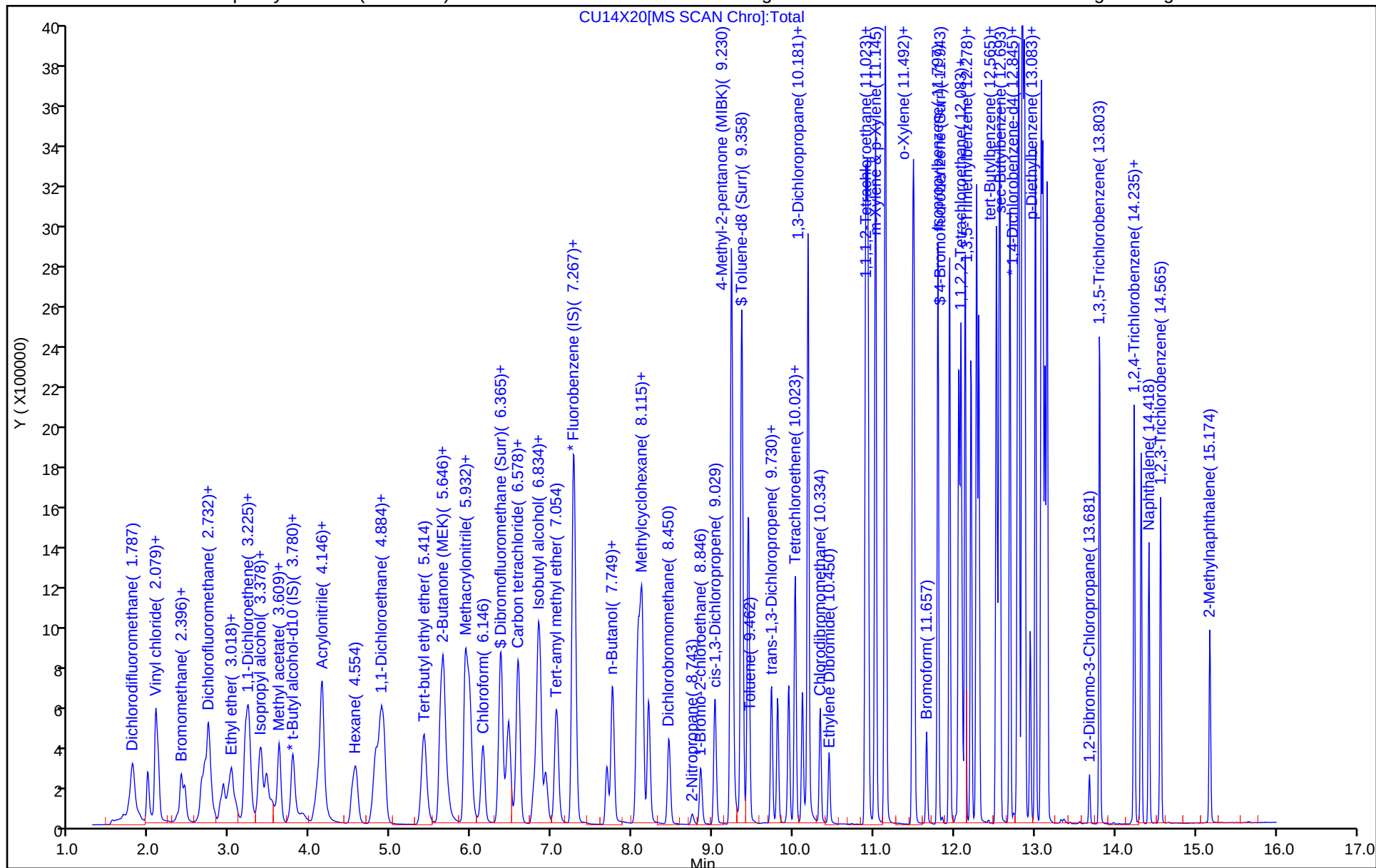
ALS Bottle#: 20

Method: MSV_10193_25mL

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



07/31/2024

Eurofins Lancaster Laboratories Environment Testing, LLC

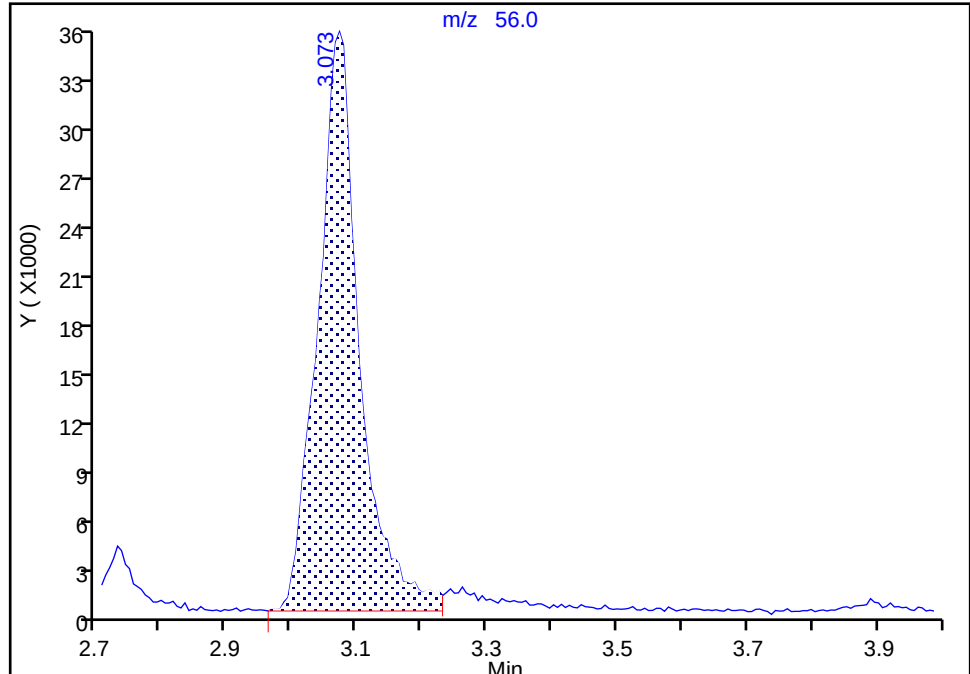
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X20.D
Injection Date: 15-Jun-2024 01:30:30 Instrument ID: 10193
Lims ID: ICV
Client ID:
Operator ID: MEC29284 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

17 Acrolein, CAS: 107-02-8

Signal: 1

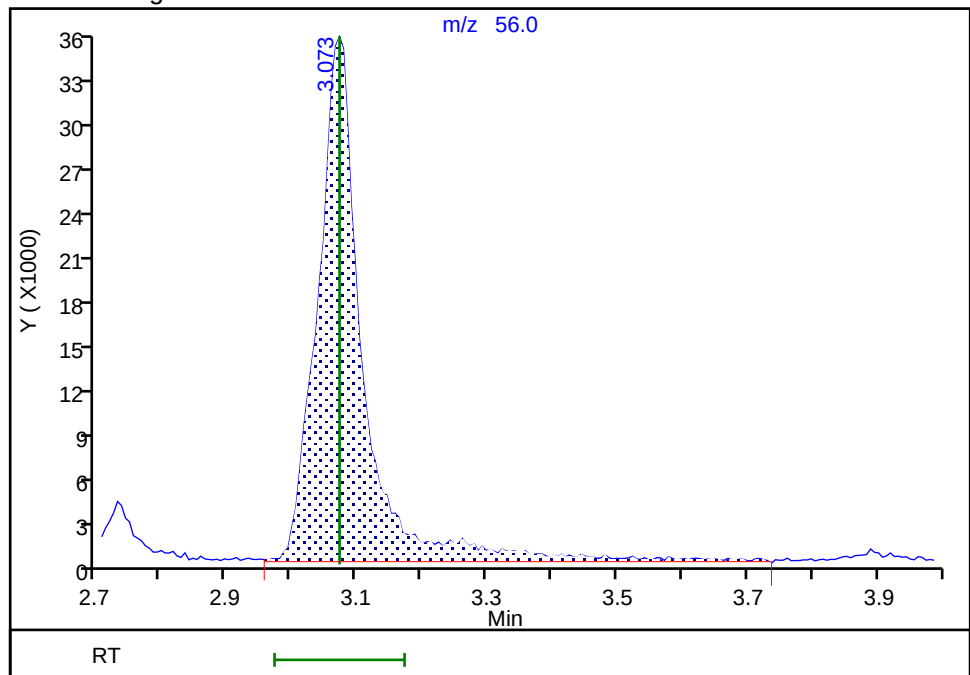
RT: 3.07
Area: 156860
Amount: 23.840960
Amount Units: ug/l

Processing Integration Results



RT: 3.07
Area: 175224
Amount: 27.177141
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 16-Jun-2024 14:10:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

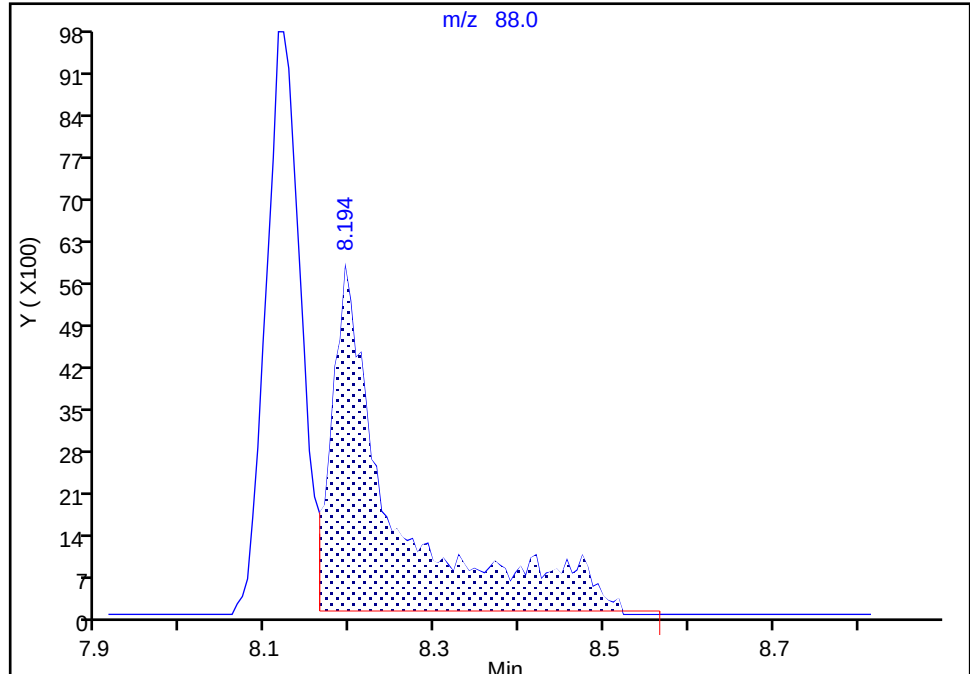
Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X20.D
Injection Date: 15-Jun-2024 01:30:30 Instrument ID: 10193
Lims ID: ICV
Client ID:
Operator ID: MEC29284 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

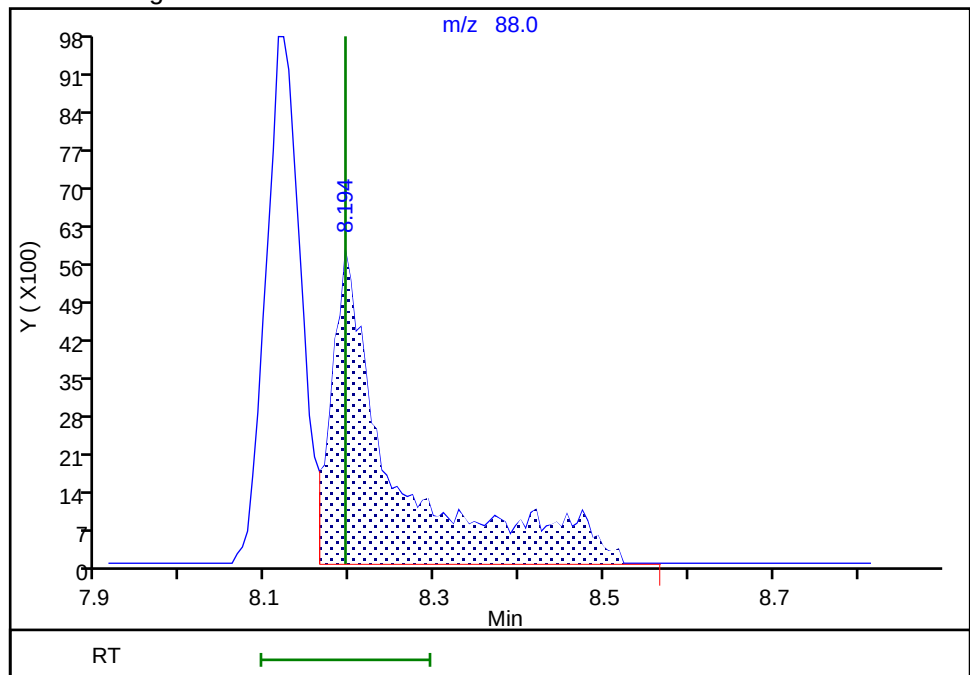
RT: 8.19
Area: 28572
Amount: 134.1262
Amount Units: ug/l

Processing Integration Results



RT: 8.19
Area: 30336
Amount: 144.9401
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 17-Jun-2024 19:20:10 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Baseline

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Lab Sample ID: CCVIS 410-533656/3

Calibration Date: 07/29/2024 19:33

Instrument ID: 10193

Calib Start Date: 06/14/2024 22:28

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

Calib End Date: 06/15/2024 00:45

Lab File ID: CL29X02.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	0.3321	0.2877	0.1000	8.66	10.0	-13.4	20.0
Chloromethane	Ave	0.3752	0.3473	0.1000	9.26	10.0	-7.4	20.0
Vinyl chloride	Ave	0.3692	0.3311	0.1000	8.97	10.0	-10.3	20.0
1,3-Butadiene	Ave	0.3946	0.3584		9.08	10.0	-9.2	20.0
Bromomethane	Ave	0.2597	0.2324	0.1000	8.95	10.0	-10.5	20.0
Chloroethane	Ave	0.2114	0.1854	0.1000	8.77	10.0	-12.3	20.0
Dichlorofluoromethane	Ave	0.5478	0.5378		9.82	10.0	-1.8	20.0
Trichlorofluoromethane	Ave	0.4296	0.4163	0.1000	9.69	10.0	-3.1	20.0
Ethyl ether	Ave	0.1940	0.2078		10.7	10.0	7.1	20.0
Freon 123a	Ave	0.3161	0.2871		9.08	10.0	-9.2	20.0
Acrolein	Ave	1.927	2.001		520	501	3.8	20.0
1,1-Dichloroethene	Ave	0.2288	0.1901	0.1000	8.31	10.0	-16.9	20.0
Acetone	Ave	2.480	2.066	0.1000	83.3	100	-16.7	20.0
Freon 113	Ave	0.2354	0.2054	0.1000	8.73	10.0	-12.7	20.0
Methyl iodide	Ave	0.4764	0.3973		8.34	10.0	-16.6	20.0
Ethyl bromide	Ave	0.2083	0.2091		10.1	10.0	0.4	20.0
Carbon disulfide	Ave	0.7426	0.6439	0.1000	8.67	10.0	-13.3	20.0
Methyl acetate	Ave	7.119	7.013	0.1000	9.85	10.0	-1.5	20.0
Allyl chloride	Ave	0.3800	0.3401		8.95	10.0	-10.5	20.0
Methylene Chloride	Ave	0.2726	0.2351	0.1000	8.63	10.0	-13.7	20.0
t-Butyl alcohol	Ave	0.9667	0.8260		171	200	-14.6	20.0
Acrylonitrile	Ave	3.621	3.524		24.3	25.0	-2.7	20.0
Methyl tert-butyl ether	Ave	0.6983	0.6615	0.1000	9.47	10.0	-5.3	20.0
trans-1,2-Dichloroethene	Ave	0.2730	0.2347	0.1000	8.60	10.0	-14.0	20.0
n-Hexane	Ave	0.3546	0.3188		8.99	10.0	-10.1	20.0
1,1-Dichloroethane	Ave	0.4690	0.4079	0.2000	8.70	10.0	-13.0	20.0
di-Isopropyl ether	Ave	0.8360	0.7970		9.53	10.0	-4.7	20.0
2-Chloro-1,3-butadiene	Ave	0.3890	0.3330		8.56	10.0	-14.4	20.0
Ethyl t-butyl ether	Ave	0.8190	0.7597		9.28	10.0	-7.2	20.0
2-Butanone (MEK)	Ave	4.550	4.737	0.1000	104	100	4.1	20.0
cis-1,2-Dichloroethene	Ave	0.3067	0.2768	0.1000	9.03	10.0	-9.7	20.0
2,2-Dichloropropane	Ave	0.3888	0.3240		8.33	10.0	-16.7	20.0
Propionitrile	Ave	1.228	1.376		224	200	12.1	20.0
Methacrylonitrile	Ave	4.499	4.777		106	100	6.2	20.0
Bromochloromethane	Ave	0.1416	0.1318		9.30	10.0	-7.0	20.0
Tetrahydrofuran	Ave	1.421	1.434		50.4	50.0	0.9	20.0
Chloroform	Ave	0.4969	0.4167	0.2000	8.39	10.0	-16.1	20.0
1,1,1-Trichloroethane	Ave	0.4151	0.3502	0.1000	8.44	10.0	-15.6	20.0
Cyclohexane	Ave	0.4421	0.3882	0.1000	8.78	10.0	-12.2	20.0
Carbon tetrachloride	Ave	0.3759	0.3110	0.1000	8.27	10.0	-17.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.: _____

Lab Sample ID: CCVIS 410-533656/3

Calibration Date: 07/29/2024 19:33

Instrument ID: 10193

Calib Start Date: 06/14/2024 22:28

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

Calib End Date: 06/15/2024 00:45

Lab File ID: CL29X02.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
1,1-Dichloropropene	Ave	0.3711	0.3237		8.72	10.0	-12.8	20.0
Isobutyl alcohol	Ave	0.3468	0.3428		494	500	-1.1	20.0
Benzene	Ave	1.115	1.012	0.5000	9.08	10.0	-9.2	20.0
1,2-Dichloroethane	Ave	0.2845	0.2560	0.1000	9.00	10.0	-10.0	20.0
t-Amyl methyl ether	Ave	0.7612	0.7164		9.41	10.0	-5.9	20.0
n-Heptane	Ave	0.3677	0.3301		8.98	10.0	-10.2	20.0
n-Butanol	Ave	0.3188	0.3480		955	875	9.2	20.0
Trichloroethene	Ave	0.3070	0.2667	0.2000	8.69	10.0	-13.1	20.0
Methylcyclohexane	Ave	0.4921	0.4329	0.1000	8.80	10.0	-12.0	20.0
1,2-Dichloropropane	Ave	0.2855	0.2653	0.1000	9.29	10.0	-7.1	20.0
1,4-Dioxane	Ave	0.0626	0.0717	0.0050	573	500	14.6	20.0
Methyl methacrylate	Ave	9.434	9.402		9.97	10.0	-0.3	20.0
Dibromomethane	Ave	0.1454	0.1343		9.23	10.0	-7.7	20.0
Bromodichloromethane	Ave	0.3445	0.3231	0.2000	9.38	10.0	-6.2	20.0
2-Nitropropane	Ave	2.541	2.411		47.4	50.0	-5.1	20.0
1-Bromo-2-chloroethane	Ave	0.2792	0.3097		11.1	10.0	10.9	20.0
cis-1,3-Dichloropropene	Ave	0.4460	0.4206	0.2000	9.43	10.0	-5.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	11.64	12.14	0.1000	104	100	4.3	20.0
Toluene	Ave	0.9498	0.8369	0.4000	8.81	10.0	-11.9	20.0
trans-1,3-Dichloropropene	Ave	0.4840	0.4554	0.1000	9.41	10.0	-5.9	20.0
Ethyl methacrylate	Ave	0.4146	0.4075		9.83	10.0	-1.7	20.0
1,1,2-Trichloroethane	Ave	0.2748	0.2633	0.1000	9.58	10.0	-4.2	20.0
Tetrachloroethene	Ave	0.4717	0.4000	0.2000	8.48	10.0	-15.2	20.0
1,3-Dichloropropane	Ave	0.4567	0.4377		9.58	10.0	-4.2	20.0
2-Hexanone	Ave	8.457	8.580	0.1000	101	100	1.5	20.0
Dibromochloromethane	Ave	0.3530	0.3367		9.54	10.0	-4.6	20.0
1,2-Dibromoethane (EDB)	Ave	0.2725	0.2628	0.1000	9.64	10.0	-3.6	20.0
1-Chlorohexane	Ave	0.5567	0.4635		8.33	10.0	-16.7	20.0
Chlorobenzene	Ave	1.135	1.012	0.5000	8.92	10.0	-10.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4002	0.3591		8.97	10.0	-10.3	20.0
Ethylbenzene	Ave	1.865	1.697	0.1000	9.10	10.0	-9.0	20.0
m&p-Xylene	Ave	0.7638	0.6874	0.1000	18.0	20.0	-10.0	20.0
o-Xylene	Ave	0.7529	0.6756	0.3000	8.97	10.0	-10.3	20.0
Styrene	Ave	1.248	1.155	0.3000	9.25	10.0	-7.5	20.0
Bromoform	Ave	0.2276	0.2192	0.1000	9.63	10.0	-3.7	20.0
Isopropylbenzene	Ave	1.787	1.547	0.1000	8.65	10.0	-13.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5837	0.5913	0.3000	10.1	10.0	1.3	20.0
Bromobenzene	Ave	0.8797	0.7999		9.09	10.0	-9.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1371	0.1443		105	100	5.3	20.0
1,2,3-Trichloropropane	Ave	0.1621	0.1636		10.1	10.0	0.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Lab Sample ID: CCVIS 410-533656/3

Calibration Date: 07/29/2024 19:33

Instrument ID: 10193

Calib Start Date: 06/14/2024 22:28

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

Calib End Date: 06/15/2024 00:45

Lab File ID: CL29X02.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
N-Propylbenzene	Ave	3.782	3.499		9.25	10.0	-7.5	20.0
2-Chlorotoluene	Ave	0.8480	0.7446		8.78	10.0	-12.2	20.0
1,3,5-Trimethylbenzene	Ave	2.825	2.590		9.17	10.0	-8.3	20.0
4-Chlorotoluene	Ave	0.8841	0.7891		8.93	10.0	-10.7	20.0
tert-Butylbenzene	Ave	0.6793	0.5970		8.79	10.0	-12.1	20.0
Pentachloroethane	Ave	0.5092	0.4958		9.74	10.0	-2.6	20.0
1,2,4-Trimethylbenzene	Ave	2.917	2.710		9.29	10.0	-7.1	20.0
sec-Butylbenzene	Ave	3.645	3.370		9.25	10.0	-7.5	20.0
1,3-Dichlorobenzene	Ave	1.738	1.605	0.6000	9.24	10.0	-7.6	20.0
p-Isopropyltoluene	Ave	3.276	2.989		9.12	10.0	-8.8	20.0
1,4-Dichlorobenzene	Ave	1.778	1.645	0.5000	9.25	10.0	-7.5	20.0
1,2,3-Trimethylbenzene	Ave	1.346	1.249		9.28	10.0	-7.2	20.0
Benzyl chloride	Ave	0.2675	0.2778		10.4	10.0	3.9	20.0
n-Butylbenzene	Ave	1.573	1.462		9.30	10.0	-7.0	20.0
1,2-Dichlorobenzene	Ave	1.587	1.508	0.4000	9.50	10.0	-5.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0967	0.0974	0.0500	10.1	10.0	0.8	20.0
1,3,5-Trichlorobenzene	Ave	1.348	1.217		9.03	10.0	-9.7	20.0
1,2,4-Trichlorobenzene	Ave	1.093	1.017	0.2000	9.31	10.0	-6.9	20.0
Hexachlorobutadiene	Ave	0.5642	0.4733		8.39	10.0	-16.1	20.0
Naphthalene	Ave	1.730	1.764		10.2	10.0	2.0	20.0
1,2,3-Trichlorobenzene	Ave	0.8521	0.7930		9.31	10.0	-6.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2422	0.2383		9.84	10.0	-1.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0495	0.0507		10.2	10.0	2.4	20.0
Toluene-d8 (Surr)	Ave	1.281	1.285		10.0	10.0	0.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4817	0.4701		9.76	10.0	-2.4	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X02.D
 Lims ID: CCVIS VSTD10
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 29-Jul-2024 19:33:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-003
 Misc. Info.: CCVIS VSTD10
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 29-Jul-2024 21:13:59 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1661

First Level Reviewer: JS6E

Date: 29-Jul-2024 20:02:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.805	1.805	0.000	99	675259	10.0	8.66	
5 Chloromethane	50	1.988	1.988	0.000	99	815336	10.0	9.26	
6 Vinyl chloride	62	2.091	2.091	0.000	98	777250	10.0	8.97	
7 Butadiene	39	2.122	2.122	0.000	90	841378	10.0	9.08	M
9 Bromomethane	94	2.402	2.402	0.000	89	545499	10.0	8.95	
10 Chloroethane	64	2.439	2.439	0.000	100	435128	10.0	8.77	
11 Dichlorofluoromethane	67	2.695	2.695	0.000	96	1262334	10.0	9.82	
13 Pentane	43	2.726	2.726	0.000	98	747129	10.0	8.68	
12 Trichlorofluoromethane	101	2.744	2.744	0.000	96	977283	10.0	9.69	
14 Ethyl ether	59	2.914	2.914	0.000	91	487727	10.0	10.7	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.012	3.012	0.000	91	673890	10.0	9.08	
17 Acrolein	56	3.061	3.061	0.000	100	3696110	501.1	520.3	
18 1,1-Dichloroethene	96	3.195	3.195	0.000	97	446253	10.0	8.31	
20 Acetone	43	3.213	3.213	0.000	100	761682	100.0	83.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.232	3.232	0.000	90	482070	10.0	8.73	
22 Iodomethane	142	3.360	3.360	0.000	97	932605	10.0	8.34	
24 Isopropyl alcohol	45	3.366	3.366	0.000	96	443326	200.0	235.8	
23 Ethyl bromide	108	3.384	3.384	0.000	98	491708	10.0	10.1	
25 Carbon disulfide	76	3.445	3.445	0.000	99	1511527	10.0	8.67	M
26 Methyl acetate	43	3.579	3.579	0.000	97	258526	10.0	9.85	
29 3-Chloro-1-propene	41	3.603	3.603	0.000	93	798430	10.0	8.95	
30 Methylene Chloride	84	3.774	3.774	0.000	90	551989	10.0	8.63	
* 31 t-Butyl alcohol-d10 (IS)	65	3.786	3.786	0.000	39	184327	50.0	50.0	
32 2-Methyl-2-propanol	59	3.896	3.896	0.000	100	609046	200.0	170.9	
33 Acrylonitrile	53	4.079	4.079	0.000	99	324805	25.0	24.3	
34 Methyl tert-butyl ether	73	4.128	4.128	0.000	94	1552882	10.0	9.47	
35 trans-1,2-Dichloroethene	96	4.140	4.140	0.000	99	550878	10.0	8.60	
36 Hexane	57	4.548	4.548	0.000	92	748275	10.0	8.99	
37 1,1-Dichloroethane	63	4.792	4.792	0.000	96	957556	10.0	8.70	
39 Isopropyl ether	45	4.859	4.859	0.000	94	1870999	10.0	9.53	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.902	4.902	0.000	89	781706	10.0	8.56	
41 Tert-butyl ethyl ether	59	5.402	5.402	0.000	98	1783331	10.0	9.28	
42 2-Butanone (MEK)	43	5.609	5.609	0.000	99	1746227	100.0	104.1	
43 cis-1,2-Dichloroethene	96	5.640	5.640	0.000	80	649738	10.0	9.03	
44 2,2-Dichloropropane	77	5.658	5.658	0.000	86	760568	10.0	8.33	
45 Propionitrile	54	5.707	5.707	0.000	99	1014365	200.0	224.1	
47 Methacrylonitrile	67	5.926	5.926	0.000	91	1761084	100.0	106.2	
48 Chlorobromomethane	128	5.975	5.975	0.000	92	309319	10.0	9.30	
49 Tetrahydrofuran	71	5.981	5.981	0.000	91	264257	50.0	50.4	
50 Chloroform	83	6.133	6.133	0.000	93	978250	10.0	8.39	
\$ 54 Dibromofluoromethane (Surr)	113	6.359	6.359	0.000	88	559367	10.0	9.84	
53 1,1,1-Trichloroethane	97	6.359	6.359	0.000	98	822113	10.0	8.44	
55 Cyclohexane	56	6.456	6.456	0.000	88	911370	10.0	8.78	
56 Carbon tetrachloride	117	6.566	6.566	0.000	94	730062	10.0	8.27	
57 1,1-Dichloropropene	75	6.578	6.578	0.000	97	759855	10.0	8.72	
58 Isobutyl alcohol	41	6.767	6.767	0.000	95	631959	500.0	494.3	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.816	6.816	0.000	99	119050	10.0	10.2	
60 Benzene	78	6.841	6.841	0.000	95	2376594	10.0	9.08	
61 1,2-Dichloroethane	62	6.920	6.920	0.000	97	600948	10.0	9.00	
64 Tert-amyl methyl ether	73	7.048	7.048	0.000	99	1681691	10.0	9.41	
* 65 Fluorobenzene (IS)	96	7.261	7.261	0.000	99	2347413	10.0	10.0	
66 n-Heptane	43	7.279	7.279	0.000	92	774893	10.0	8.98	
67 n-Butanol	56	7.676	7.676	0.000	87	1122678	875.0	955.4	
68 Trichloroethene	95	7.749	7.749	0.000	97	626106	10.0	8.69	
69 Methylcyclohexane	83	8.054	8.054	0.000	90	1016081	10.0	8.80	
70 1,2-Dichloropropane	63	8.090	8.090	0.000	97	622762	10.0	9.29	
71 2-ethoxy-2-methyl butane	87	8.115	8.115	0.000	94	1010445	10.0	9.27	
74 1,4-Dioxane	88	8.188	8.188	0.000	37	132099	500.0	572.8	M
73 Methyl methacrylate	69	8.194	8.194	0.000	91	346621	10.0	9.97	
72 Dibromomethane	93	8.200	8.200	0.000	93	315174	10.0	9.23	
76 Dichlorobromomethane	83	8.450	8.450	0.000	99	758561	10.0	9.38	
77 2-Nitropropane	41	8.737	8.737	0.000	97	444440	50.0	47.4	
78 1-Bromo-2-chloroethane	63	8.840	8.840	0.000	98	726899	10.0	11.1	
80 cis-1,3-Dichloropropene	75	9.017	9.017	0.000	97	987325	10.0	9.43	
82 4-Methyl-2-pentanone (MIBK)	43	9.224	9.224	0.000	95	4474286	100.0	104.3	
\$ 83 Toluene-d8 (Surr)	98	9.352	9.352	0.000	93	2387235	10.0	10.0	
84 Toluene	92	9.432	9.432	0.000	98	1554383	10.0	8.81	
85 trans-1,3-Dichloropropene	75	9.718	9.718	0.000	90	845688	10.0	9.41	
86 Ethyl methacrylate	69	9.797	9.797	0.000	89	756727	10.0	9.83	
87 1,1,2-Trichloroethane	97	9.938	9.938	0.000	88	489006	10.0	9.58	
88 Tetrachloroethene	166	10.017	10.017	0.000	97	742845	10.0	8.48	
89 1,3-Dichloropropane	76	10.102	10.102	0.000	88	812811	10.0	9.58	
106 2-Hexanone	43	10.175	10.175	0.000	95	3162867	100.0	101.5	
108 Chlorodibromomethane	129	10.328	10.328	0.000	89	625402	10.0	9.54	
110 Ethylene Dibromide	107	10.437	10.437	0.000	98	487982	10.0	9.64	
* 111 Chlorobenzene-d5 (IS)	117	10.895	10.895	0.000	83	1857206	10.0	10.0	
112 1-Chlorohexane	91	10.913	10.913	0.000	97	860816	10.0	8.33	
113 Chlorobenzene	112	10.919	10.919	0.000	97	1879990	10.0	8.92	
114 1,1,1,2-Tetrachloroethane	131	11.010	11.010	0.000	97	666993	10.0	8.97	
115 Ethylbenzene	91	11.017	11.017	0.000	97	3151832	10.0	9.10	
116 m-Xylene & p-Xylene	106	11.138	11.138	0.000	97	2553201	20.0	18.0	
118 o-Xylene	106	11.480	11.480	0.000	95	1254671	10.0	8.97	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 Styrene	104	11.492	11.492	0.000	95	2144289	10.0	9.25	
120 Bromoform	173	11.651	11.651	0.000	99	407118	10.0	9.63	
121 Isopropylbenzene	105	11.791	11.791	0.000	95	2872289	10.0	8.65	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	95	873149	10.0	9.76	
126 1,1,2,2-Tetrachloroethane	83	12.047	12.047	0.000	71	645506	10.0	10.1	
125 Bromobenzene	156	12.047	12.047	0.000	89	873269	10.0	9.09	
127 trans-1,4-Dichloro-2-butene	53	12.077	12.077	0.000	89	1575892	100.0	105.3	
128 1,2,3-Trichloropropane	110	12.090	12.090	0.000	79	178636	10.0	10.1	
129 N-Propylbenzene	91	12.126	12.126	0.000	98	3820428	10.0	9.25	
130 2-Chlorotoluene	126	12.205	12.205	0.000	98	812922	10.0	8.78	
131 1,3,5-Trimethylbenzene	105	12.272	12.272	0.000	94	2827149	10.0	9.17	
132 4-Chlorotoluene	126	12.297	12.297	0.000	97	861509	10.0	8.93	
133 tert-Butylbenzene	134	12.516	12.516	0.000	93	651733	10.0	8.79	
134 Pentachloroethane	167	12.547	12.547	0.000	94	541257	10.0	9.74	
135 1,2,4-Trimethylbenzene	105	12.559	12.559	0.000	97	2958892	10.0	9.29	
136 sec-Butylbenzene	105	12.687	12.687	0.000	93	3679313	10.0	9.25	
137 1,3-Dichlorobenzene	146	12.778	12.778	0.000	97	1752489	10.0	9.24	
138 4-Isopropyltoluene	119	12.797	12.797	0.000	97	3262856	10.0	9.12	
* 139 1,4-Dichlorobenzene-d4	152	12.839	12.839	0.000	93	1091740	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.858	12.858	0.000	95	1796347	10.0	9.25	
141 1,2,3-Trimethylbenzene	120	12.870	12.870	0.000	98	1363646	10.0	9.28	
142 Benzyl chloride	126	12.937	12.937	0.000	98	303312	10.0	10.4	
145 p-Diethylbenzene	119	13.077	13.077	0.000	94	2017376	10.0	9.05	
143 n-Butylbenzene	92	13.095	13.095	0.000	97	1596049	10.0	9.30	
144 1,2-Dichlorobenzene	146	13.120	13.120	0.000	99	1645812	10.0	9.50	
148 1,2-Dibromo-3-Chloropropane	155	13.675	13.675	0.000	92	106378	10.0	10.1	
149 1,3,5-Trichlorobenzene	180	13.803	13.803	0.000	98	1329010	10.0	9.03	
150 1,2,4-Trichlorobenzene	180	14.229	14.229	0.000	94	1110654	10.0	9.31	
151 Hexachlorobutadiene	225	14.315	14.315	0.000	96	516769	10.0	8.39	
152 Naphthalene	128	14.412	14.412	0.000	96	1925785	10.0	10.2	
153 1,2,3-Trichlorobenzene	180	14.559	14.559	0.000	96	865770	10.0	9.31	
154 2-Methylnaphthalene	142	15.168	15.168	0.000	92	658773	10.0	7.88	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00138

Amount Added: 20.00

Units: uL

MSV_LL_#2_826_00146

Amount Added: 20.00

Units: uL

MSV_LL_GAS826_00222

Amount Added: 20.00

Units: uL

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X02.D

Injection Date: 29-Jul-2024 19:33:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: CCVIS VSTD10

Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

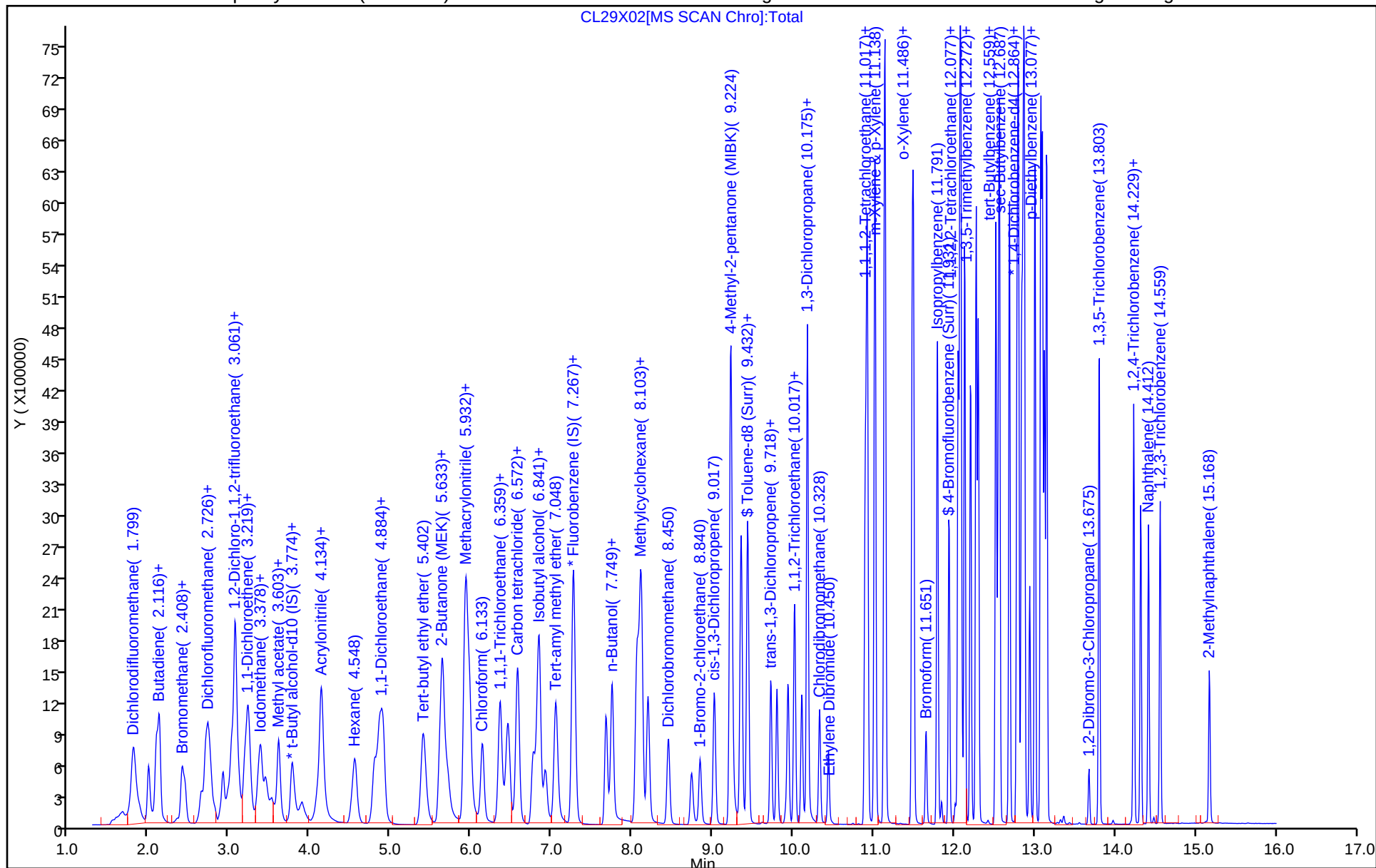
ALS Bottle#: 2

Method: MSV_10193_25mL

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

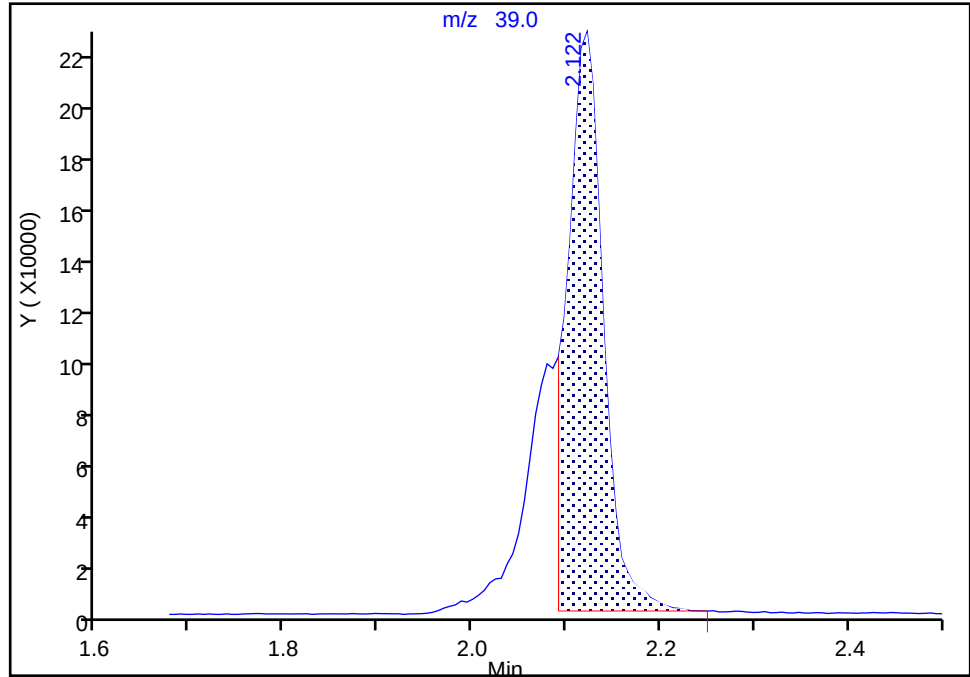
Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X02.D
Injection Date: 29-Jul-2024 19:33:30 Instrument ID: 10193
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

7 Butadiene, CAS: 106-99-0

Signal: 1

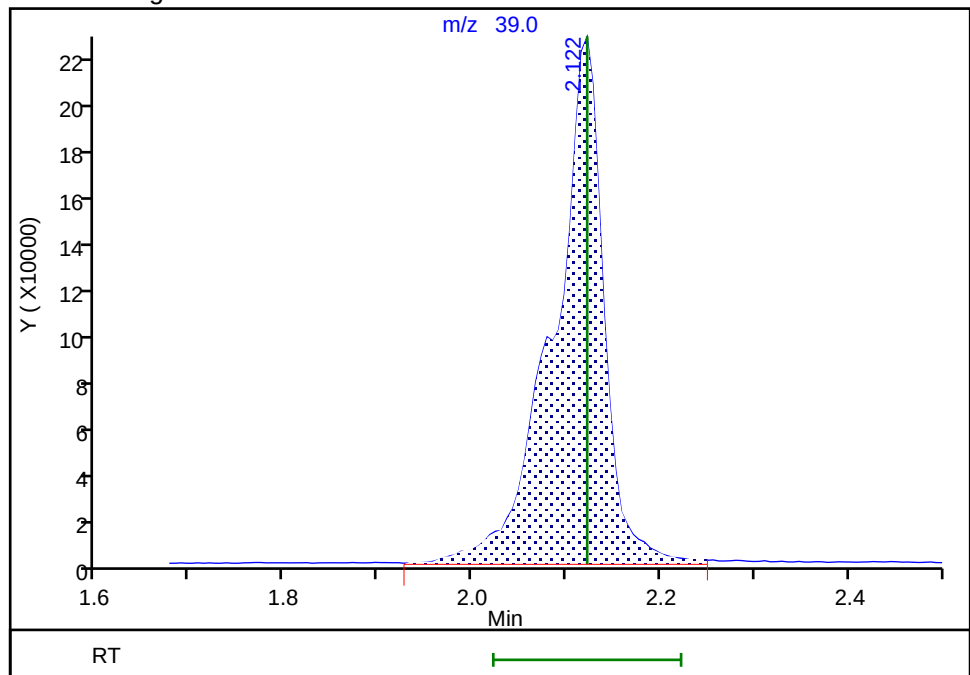
RT: 2.12
Area: 600898
Amount: 6.487191
Amount Units: ug/l

Processing Integration Results



RT: 2.12
Area: 841378
Amount: 9.083372
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 29-Jul-2024 20:03:59 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

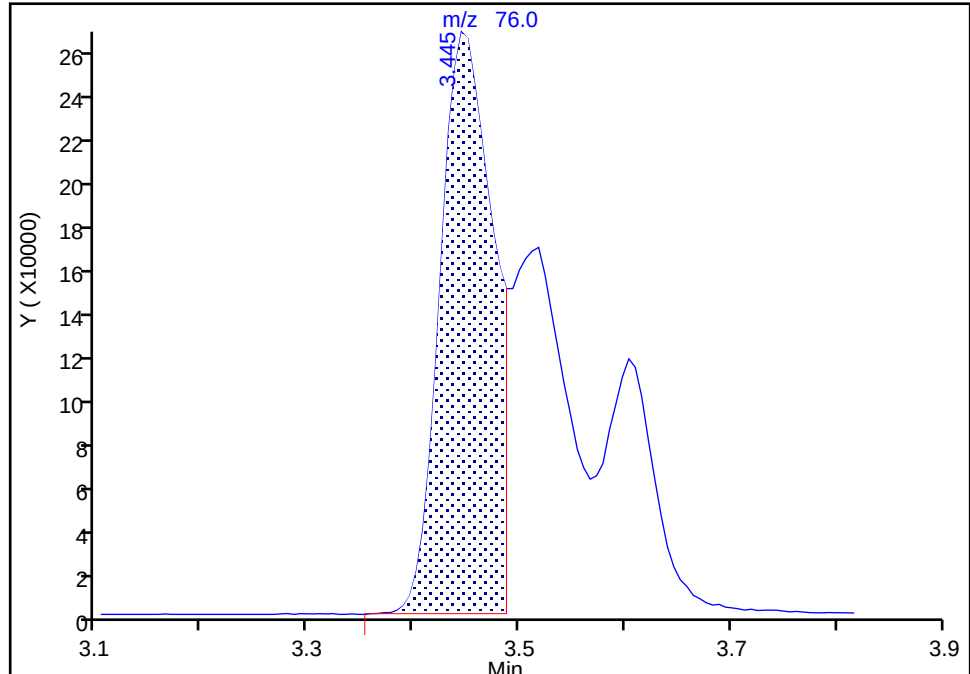
Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X02.D
Injection Date: 29-Jul-2024 19:33:30 Instrument ID: 10193
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

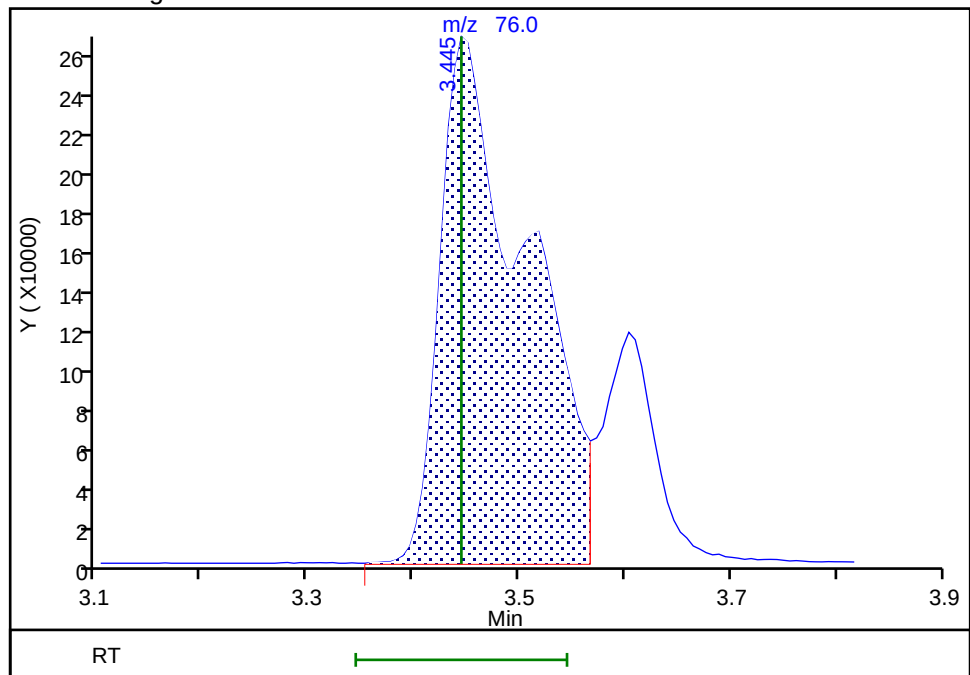
RT: 3.44
Area: 928359
Amount: 5.325528
Amount Units: ug/l

Processing Integration Results



RT: 3.44
Area: 1511527
Amount: 8.670869
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 29-Jul-2024 20:04:24 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

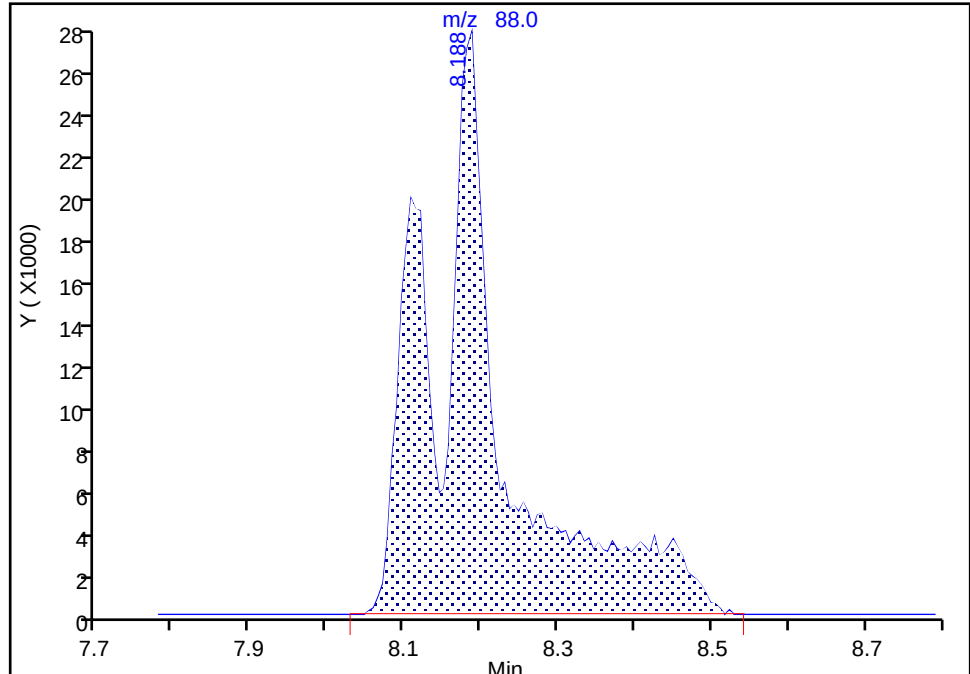
Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X02.D
Injection Date: 29-Jul-2024 19:33:30 Instrument ID: 10193
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

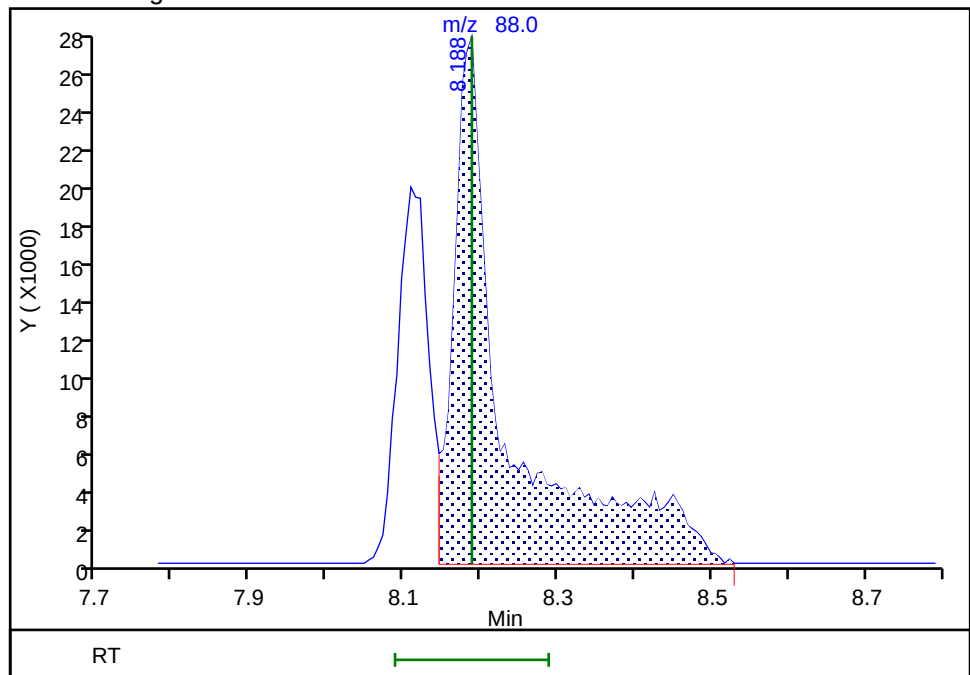
RT: 8.19
Area: 185100
Amount: 802.6870
Amount Units: ug/l

Processing Integration Results



RT: 8.19
Area: 132099
Amount: 572.8479
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 29-Jul-2024 20:05:10 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14T01.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 14-Jun-2024 17:48:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0116724-001
Misc. Info.: BFB
Operator ID: MEC29284 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 16-Jun-2024 14:14:59 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1663

First Level Reviewer: K4WN

Date: 14-Jun-2024 18:15:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 168 BFB	95	5.018	5.018	0.000	95	452835	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MSV_V_BFB_00017

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14T01.D

Injection Date: 14-Jun-2024 17:48:30

Instrument ID: 10193

Lims ID: BFB

Client ID:

Operator ID: MEC29284

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

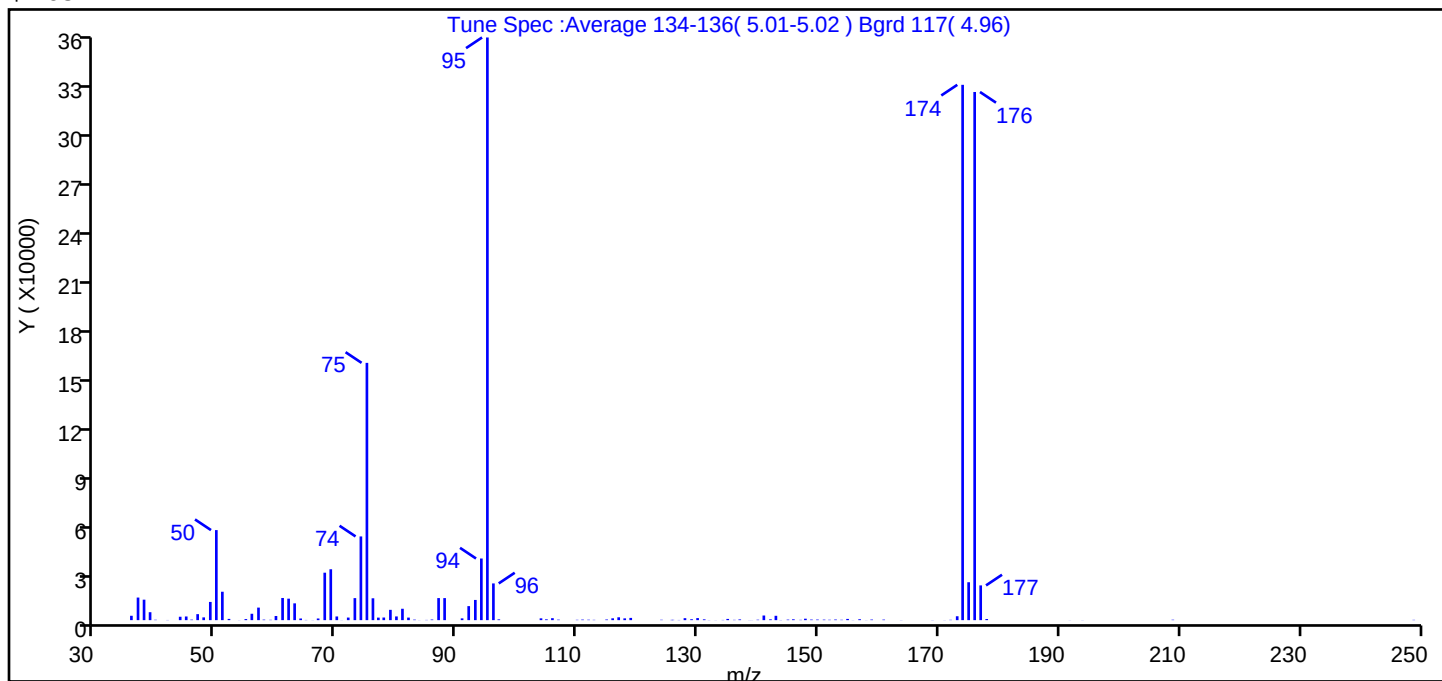
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

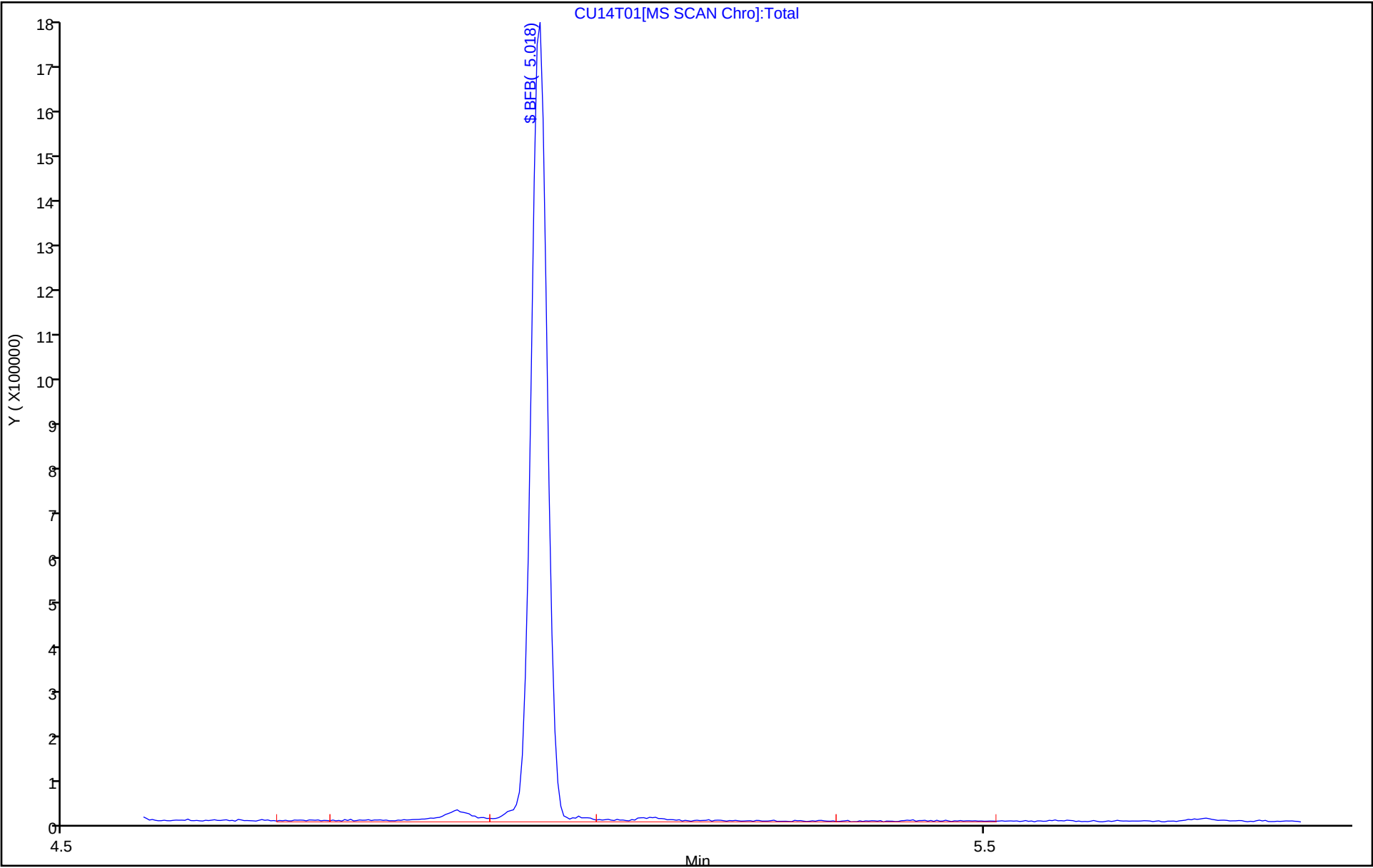
\$ 168 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.5
75	30 to 60% of m/z 95	44.2
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.7 (0.7)
174	50 to 120% of m/z 95	91.9
175	5 to 9% of m/z 174	6.5 (7.1)
176	Greater than 95% but less than 101% of m/z 174	90.6 (98.7)
177	5 to 9% of m/z 176	6.0 (6.6)

Data File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14T01.D\MSV_10193_25mL.rsl\spectra.d
Injection Date: 14-Jun-2024 17:48:30
Spectrum: Tune Spec :Average 134-136(5.01-5.02) Bgrd 117(4.96)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 121

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2652	70.00	2236	111.00	334	147.00	182
37.00	13710	71.00	50	112.00	262	148.00	878
38.00	12428	72.00	1565	113.00	190	149.00	346
39.00	4820	73.00	13372	115.00	391	150.00	353
40.00	228	74.00	50808	116.00	1112	151.00	309
42.00	102	75.00	156160	117.00	1733	152.00	233
44.00	2063	76.00	13267	118.00	1080	153.00	374
45.00	2224	77.00	1536	119.00	1364	154.00	221
46.00	308	78.00	1593	124.00	230	155.00	741
47.00	3638	79.00	6257	126.00	150	156.00	58
48.00	1673	80.00	2253	126.00	189	157.00	544
49.00	11053	81.00	6913	127.00	113	158.00	51
50.00	54656	82.00	1548	128.00	1195	159.00	350
51.00	17240	83.00	312	129.00	553	161.00	324
52.00	751	84.00	52	130.00	1250	164.00	70
54.00	57	85.00	140	131.00	485	169.00	75
55.00	646	86.00	371	132.00	72	171.00	58
56.00	3870	87.00	13390	133.00	51	172.00	194
57.00	7613	88.00	13379	134.00	124	173.00	2368
58.00	317	91.00	1078	135.00	739	174.00	324928
59.00	202	92.00	8507	136.00	183	175.00	23008
60.00	2519	93.00	12261	137.00	440	176.00	320576
61.00	13452	94.00	37408	138.00	56	177.00	21088
62.00	13038	95.00	353664	139.00	53	178.00	671
63.00	10193	96.00	22288	140.00	268	192.00	50
64.00	1000	97.00	466	141.00	2808	194.00	57
65.00	120	104.00	1098	142.00	486	209.00	256
66.00	56	105.00	497	143.00	2635	249.00	178
67.00	999	106.00	1195	144.00	91		
68.00	28800	107.00	300	145.00	324		
69.00	30888	110.00	207	146.00	507		



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29T01.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 29-Jul-2024 18:56:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0120642-001
Misc. Info.: BFB
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jul-2024 21:14:18 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1661

First Level Reviewer: JS6E

Date: 29-Jul-2024 19:07:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 168 BFB	95	5.008	5.008	0.000	92	926339	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MSV_V_BFB_00017

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29T01.D

Injection Date: 29-Jul-2024 18:56:30

Instrument ID: 10193

Lims ID: BFB

Client ID:

Operator ID: gaw91131

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

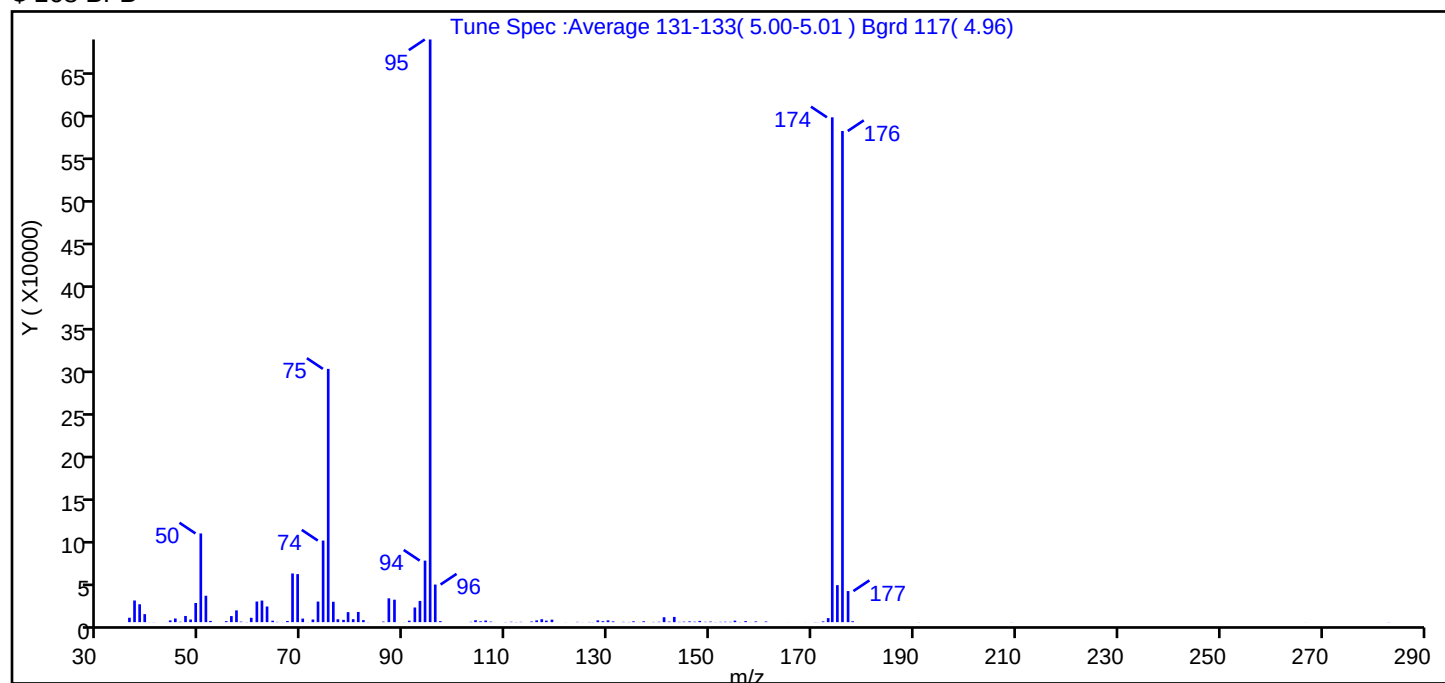
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

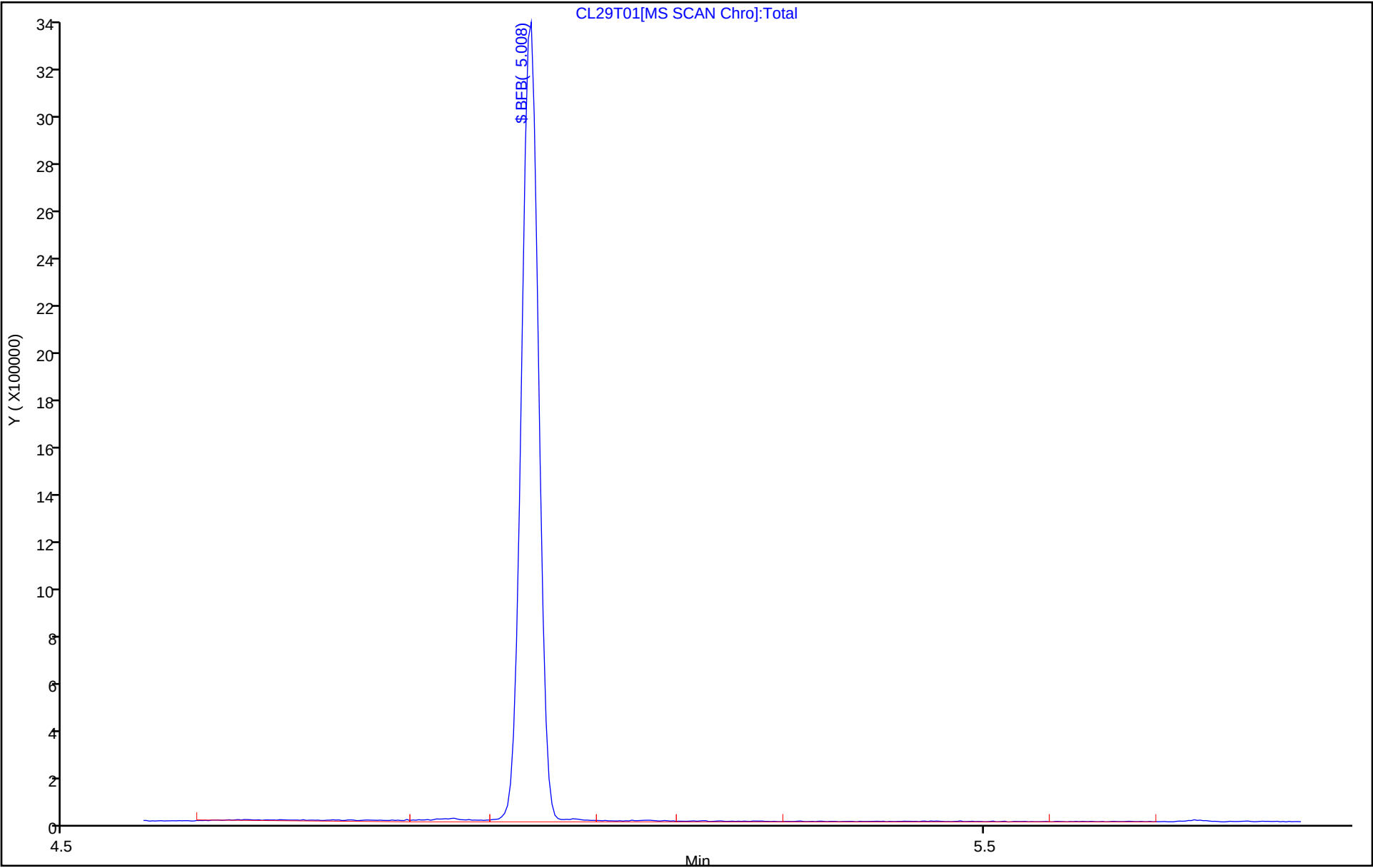
\$ 168 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.2
75	30 to 60% of m/z 95	43.5
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.7 (0.8)
174	50 to 120% of m/z 95	86.6
175	5 to 9% of m/z 174	6.3 (7.3)
176	Greater than 95% but less than 101% of m/z 174	84.3 (97.3)
177	5 to 9% of m/z 176	5.3 (6.3)

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29T01.D\MSV_10193_25mL.rslt\spectra.d
Injection Date: 29-Jul-2024 18:56:30
Spectrum: Tune Spec :Average 131-133(5.00-5.01) Bgrd 117(4.96)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 122

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5165	70.00	4184	111.00	471	147.00	494
37.00	25408	71.00	86	112.00	190	148.00	1427
38.00	20968	72.00	3104	113.00	330	149.00	376
39.00	9395	73.00	24152	115.00	753	150.00	664
40.00	89	74.00	95720	116.00	2080	151.00	141
41.00	129	75.00	297152	117.00	3431	152.00	330
43.00	64	76.00	23912	118.00	1764	153.00	495
44.00	2012	77.00	3435	119.00	2919	154.00	364
45.00	4284	78.00	2694	120.00	46	155.00	1752
46.00	440	79.00	11745	122.00	86	156.00	182
47.00	7244	80.00	3483	124.00	346	157.00	1198
48.00	3069	81.00	11982	125.00	79	158.00	77
49.00	22456	82.00	2364	126.00	219	159.00	825
50.00	104072	83.00	134	127.00	147	161.00	738
51.00	30976	86.00	668	128.00	2070	165.00	52
52.00	1443	87.00	27936	129.00	1134	169.00	51
55.00	1169	88.00	26336	130.00	2101	170.00	181
56.00	7109	90.00	110	131.00	886	171.00	127
57.00	13818	91.00	1721	133.00	361	172.00	883
58.00	611	92.00	17184	134.00	201	173.00	4745
59.00	178	93.00	24896	135.00	962	174.00	592256
60.00	5099	94.00	72176	136.00	78	175.00	43400
61.00	24208	95.00	683584	137.00	968	176.00	576192
62.00	25312	96.00	44120	139.00	259	177.00	36472
63.00	18344	97.00	1137	140.00	451	178.00	1034
64.00	1675	103.00	394	141.00	5754	191.00	118
65.00	298	104.00	2246	142.00	652	209.00	120
66.00	67	105.00	931	143.00	6130	267.00	56
67.00	1352	106.00	1856	144.00	337	283.00	145
68.00	57104	107.00	584	145.00	567		
69.00	56368	110.00	205	146.00	866		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-533656/6

Matrix: Water

Lab File ID: CL29X05.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 07/29/2024 20:40

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-533656/6

Matrix: Water Lab File ID: CL29X05.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 25 (mL) Date Analyzed: 07/29/2024 20:40

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 533656 Units: ug/L

Preparation Batch No.: _____ Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	ND		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		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\10193\20240729-120642.b\CL29X05.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 29-Jul-2024 20:40:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-006
 Misc. Info.: MB
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 01:19:32 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1692

First Level Reviewer: JS6E

Date: 29-Jul-2024 21:10:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.762					ND	
2 Dichlorodifluoromethane	85		1.805					ND	
3 Chlorodifluoromethane	51		1.811					ND	7
4 Dimethyl ether	45		1.860					ND	
5 Chloromethane	50		1.988					ND	
6 Vinyl chloride	62		2.091					ND	
7 Butadiene	39		2.122					ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.153					ND	
9 Bromomethane	94		2.402					ND	
10 Chloroethane	64		2.439					ND	
11 Dichlorofluoromethane	67		2.695					ND	
13 Pentane	43		2.726					ND	U
12 Trichlorofluoromethane	101		2.744					ND	
14 Ethyl ether	59		2.914					ND	
16 1,2-Dichloro-1,1,2-trifluoroetha	67		3.012					ND	
17 Acrolein	56		3.061					ND	7
18 1,1-Dichloroethene	96		3.195					ND	
20 Acetone	43		3.213					ND	7
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.232					ND	
22 Iodomethane	142		3.360					ND	
24 Isopropyl alcohol	45		3.366					ND	
23 Ethyl bromide	108		3.384					ND	
25 Carbon disulfide	76		3.445					ND	7
27 Acetonitrile	41		3.561					ND	7
26 Methyl acetate	43		3.579					ND	
29 3-Chloro-1-propene	41		3.603					ND	
30 Methylene Chloride	84		3.774					ND	
* 31 t-Butyl alcohol-d10 (IS)	65	3.780	3.786	-0.006	97	155281	50.0	50.0	
32 2-Methyl-2-propanol	59		3.896					ND	7
33 Acrylonitrile	53		4.079					ND	
34 Methyl tert-butyl ether	73		4.128					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 trans-1,2-Dichloroethene	96		4.140					ND	
36 Hexane	57		4.548					ND	
38 Vinyl acetate	43		4.780					ND	
37 1,1-Dichloroethane	63		4.792					ND	
39 Isopropyl ether	45		4.859					ND	
40 2-Chloro-1,3-butadiene	53		4.902					ND	
41 Tert-butyl ethyl ether	59		5.402					ND	7
42 2-Butanone (MEK)	43		5.609					ND	7
43 cis-1,2-Dichloroethene	96		5.640					ND	
44 2,2-Dichloropropane	77		5.658					ND	7
46 Ethyl acetate	43		5.682					ND	7
45 Propionitrile	54		5.707					ND	
47 Methacrylonitrile	67		5.926					ND	
48 Chlorobromomethane	128		5.975					ND	
49 Tetrahydrofuran	71		5.981					ND	
51 Methyl acrylate	55		6.013					ND	
50 Chloroform	83		6.133					ND	
S 52 1,2-Dichloroethene, Total	100		6.155					ND	7
\$ 54 Dibromofluoromethane (Surr)	113	6.353	6.359	-0.006	94	544024	10.0	9.79	
53 1,1,1-Trichloroethane	97		6.359					ND	
55 Cyclohexane	56		6.456					ND	
56 Carbon tetrachloride	117		6.566					ND	
57 1,1-Dichloropropene	75		6.578					ND	
58 Isobutyl alcohol	41		6.767					ND	
62 1-Chlorobutane	56		6.781					ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.810	6.816	-0.006	99	115276	10.0	10.1	
60 Benzene	78		6.841					ND	U
61 1,2-Dichloroethane	62		6.920					ND	
63 Isopropyl acetate	43		6.956					ND	
64 Tert-amyl methyl ether	73		7.048					ND	
* 65 Fluorobenzene (IS)	96	7.261	7.261	0.000	99	2293648	10.0	10.0	
66 n-Heptane	43		7.279					ND	7
67 n-Butanol	56		7.676					ND	
68 Trichloroethene	95		7.749					ND	
69 Methylcyclohexane	83		8.054					ND	
70 1,2-Dichloropropane	63		8.090					ND	
71 2-ethoxy-2-methyl butane	87		8.115					ND	
74 1,4-Dioxane	88		8.188					ND	
73 Methyl methacrylate	69		8.194					ND	
72 Dibromomethane	93		8.200					ND	
75 n-Propyl acetate	61		8.292					ND	
76 Dichlorobromomethane	83		8.450					ND	
77 2-Nitropropane	41		8.737					ND	
78 1-Bromo-2-chloroethane	63		8.840					ND	
79 2-Chloroethyl vinyl ether	63		8.840					ND	
80 cis-1,3-Dichloropropene	75		9.017					ND	
81 Chloroacetonitrile	75		9.067					ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.224					ND	7
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2311146	10.0	10.0	
84 Toluene	92		9.432					ND	7
85 trans-1,3-Dichloropropene	75		9.718					ND	7
86 Ethyl methacrylate	69		9.797					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.938					ND	
88 Tetrachloroethene	166		10.017					ND	7
S 107 1,3-Dichloropropene, Total	100		10.060					ND	7
89 1,3-Dichloropropane	76		10.102					ND	
106 2-Hexanone	43		10.175					ND	7
109 n-Butyl acetate	43		10.316					ND	U
108 Chlorodibromomethane	129		10.328					ND	
110 Ethylene Dibromide	107		10.437					ND	
* 111 Chlorobenzene-d5 (IS)	117	10.889	10.895	-0.006	84	1800635	10.0	10.0	
112 1-Chlorohexane	91		10.913					ND	7
113 Chlorobenzene	112		10.919					ND	
114 1,1,1,2-Tetrachloroethane	131		11.010					ND	
115 Ethylbenzene	91		11.017					ND	
116 m-Xylene & p-Xylene	106		11.138					ND	7
S 117 Xylenes, Total	106		11.245					ND	7
118 o-Xylene	106		11.480					ND	
119 Styrene	104		11.492					ND	7
120 Bromoform	173		11.651					ND	
121 Isopropylbenzene	105		11.791					ND	
122 cis-1,4-Dichloro-2-butene	88		11.852					ND	
123 Cyclohexanone	55		11.876					ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	95	840491	10.0	9.69	
126 1,1,2,2-Tetrachloroethane	83		12.047					ND	
125 Bromobenzene	156		12.047					ND	7
127 trans-1,4-Dichloro-2-butene	53		12.077					ND	
128 1,2,3-Trichloropropane	110		12.090					ND	
129 N-Propylbenzene	91		12.126					ND	
130 2-Chlorotoluene	126		12.205					ND	
131 1,3,5-Trimethylbenzene	105		12.272					ND	7
132 4-Chlorotoluene	126		12.297					ND	7
133 tert-Butylbenzene	134		12.516					ND	
134 Pentachloroethane	167		12.547					ND	
135 1,2,4-Trimethylbenzene	105		12.559					ND	7
136 sec-Butylbenzene	105		12.687					ND	7
137 1,3-Dichlorobenzene	146		12.778					ND	7
138 4-Isopropyltoluene	119		12.797					ND	7
* 139 1,4-Dichlorobenzene-d4	152	12.833	12.839	-0.006	93	994502	10.0	10.0	
140 1,4-Dichlorobenzene	146		12.858					ND	7
141 1,2,3-Trimethylbenzene	120		12.870					ND	7
142 Benzyl chloride	126		12.937					ND	7
145 p-Diethylbenzene	119	13.071	13.077	-0.006	89	1388		0.006838	
143 n-Butylbenzene	92		13.095					ND	7
144 1,2-Dichlorobenzene	146		13.120					ND	7
147 Hexachloroethane	117		13.444					ND	
148 1,2-Dibromo-3-Chloropropane	155		13.675					ND	
149 1,3,5-Trichlorobenzene	180		13.803					ND	7
150 1,2,4-Trichlorobenzene	180		14.229					ND	7
151 Hexachlorobutadiene	225		14.315					ND	7
152 Naphthalene	128	14.412	14.412	0.000	95	5564		0.0323	
153 1,2,3-Trichlorobenzene	180	14.559	14.559	0.000	90	2285		0.0270	
154 2-Methylnaphthalene	142	15.168	15.168	0.000	87	3564		0.0468	
155 Dodecane	57		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
156 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
157 tert-Butyl Formate	1		0.000					ND	
158 2-Bromo-1-chloropropane	1		0.000					ND	
159 1-Chloropropane	1		0.000					ND	
160 1,1-Dichloroacetone	1		0.000					ND	
161 Methylal	1		0.000					ND	
162 Propene oxide	1		0.000					ND	
163 t-Amyl alcohol	1		0.000					ND	
164 Ethanol	45		0.000					ND	
165 n-Decane	57		0.000					ND	
166 1-Bromo-3-Chloropropane	1		0.000					ND	
244 1,1-Dichloro-1-fluoroethane TIC1			0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

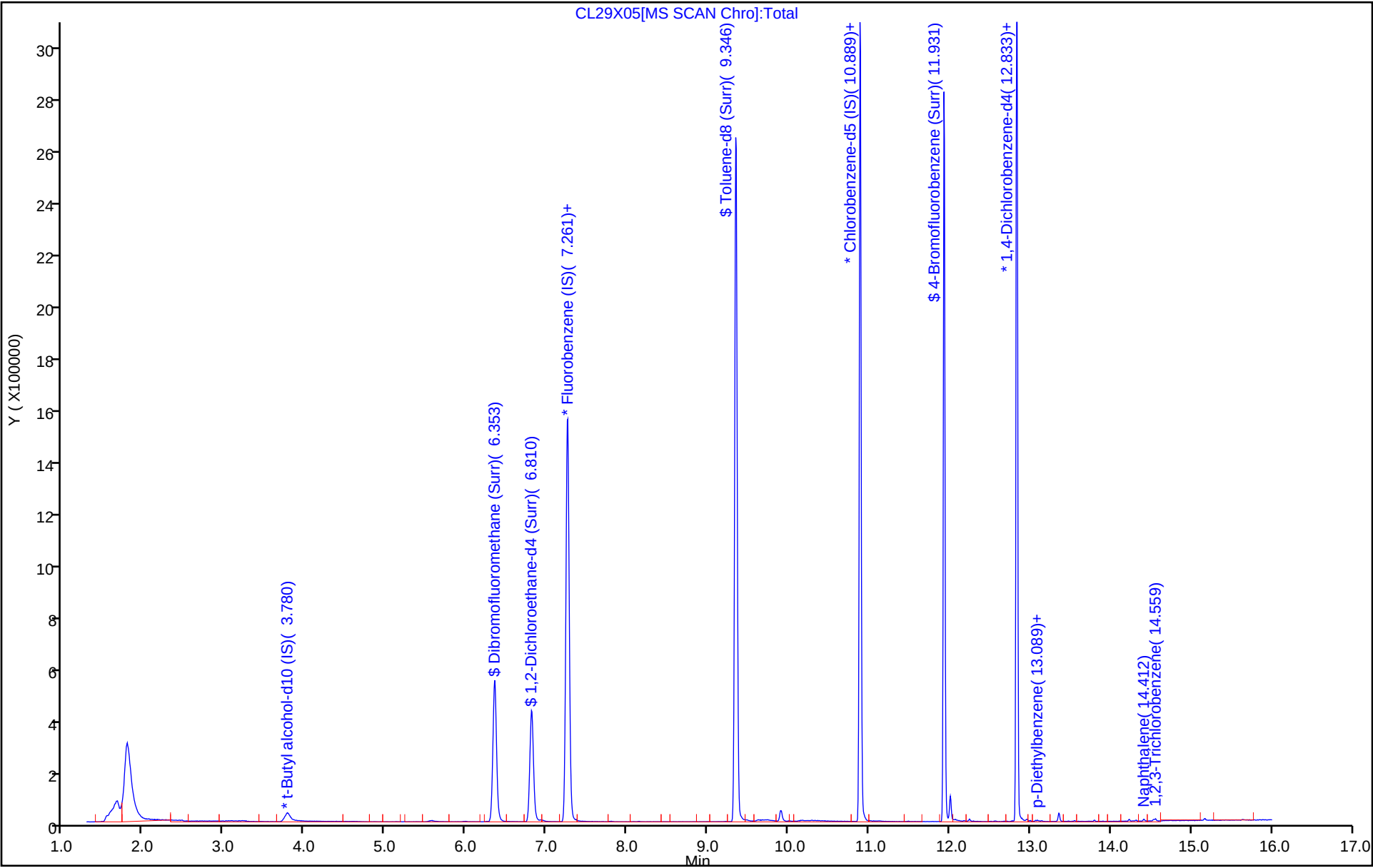
Reagents:

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 29-Jul-2024 20:40:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-006
Misc. Info.: MB
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 01:19:32 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1692

First Level Reviewer: JS6E

Date: 29-Jul-2024 21:10:57

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.79	97.94
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.44
\$ 83 Toluene-d8 (Surr)	10.0	10.0	100.17
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.69	96.91

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X05.D

Injection Date: 29-Jul-2024 20:40:30

Instrument ID: 10193

Lims ID: MB

Client ID:

Operator ID: gaw91131

ALS Bottle#:

5

Worklist Smp#: 6

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_10193_25mL

Limit Group:

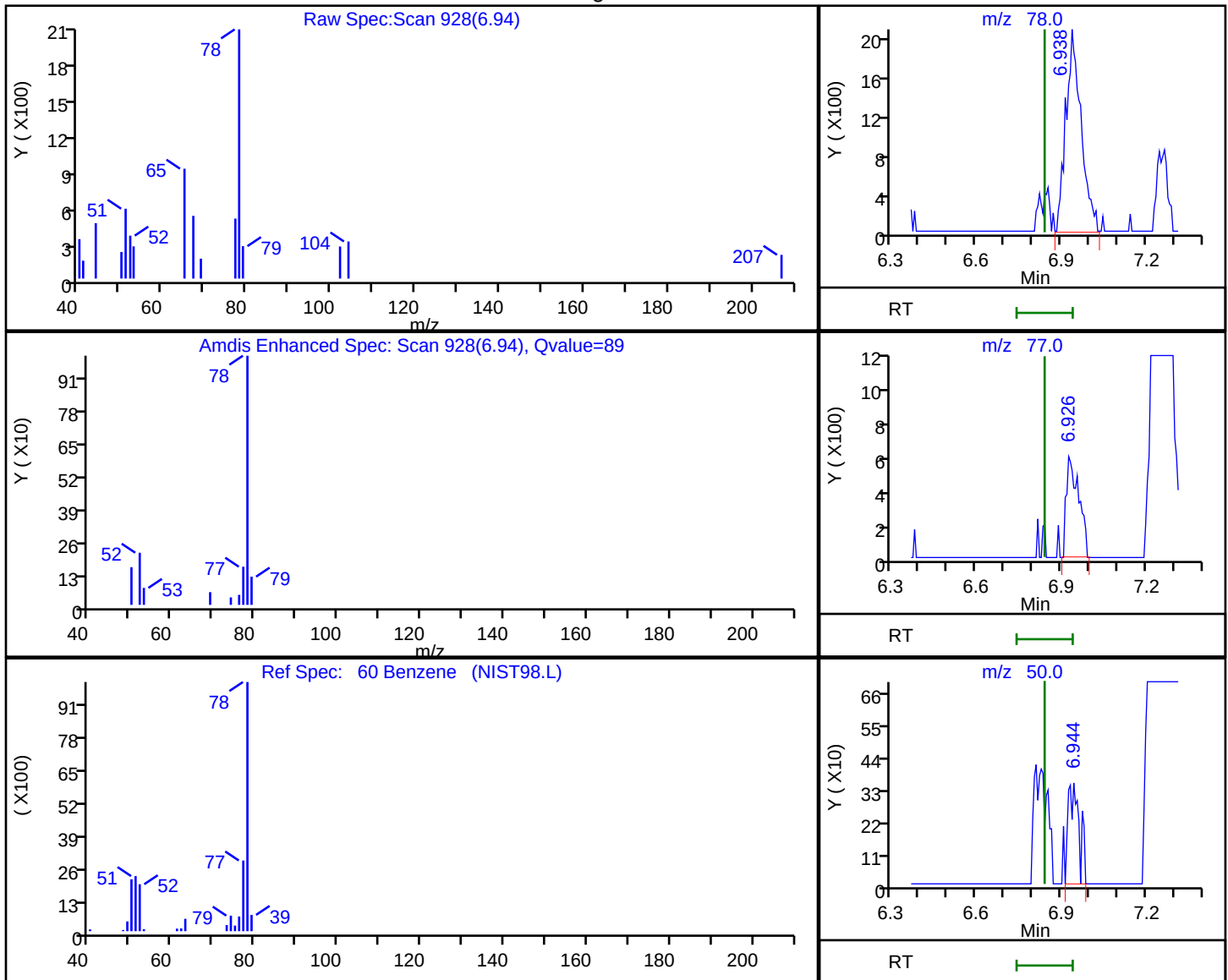
MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

60 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
6.94	78.00	7819	0.030566
6.93	77.00	1795	
6.94	50.00	969	
6.93	52.00	1008	

Reviewer: JS6E, 29-Jul-2024 21:09:28 -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.: 410-181527-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-533656/4

Matrix: Water

Lab File ID: CL29X03.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 07/29/2024 19:55

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.76		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.64		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.14		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.08		0.50	0.080
75-34-3	1,1-Dichloroethane	4.90		0.50	0.10
75-35-4	1,1-Dichloroethene	4.92		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.99		0.50	0.080
107-06-2	1,2-Dichloroethane	4.72		0.50	0.070
78-87-5	1,2-Dichloropropane	5.07		0.50	0.10
78-93-3	2-Butanone (MEK)	72.6		5.0	1.0
591-78-6	2-Hexanone	72.7		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	71.3		5.0	1.0
67-64-1	Acetone	64.8		5.0	1.5
71-43-2	Benzene	4.94		0.50	0.10
74-97-5	Bromochloromethane	4.95		0.50	0.080
75-27-4	Bromodichloromethane	4.91		0.50	0.080
75-25-2	Bromoform	4.87		1.0	0.30
74-83-9	Bromomethane	3.91		0.50	0.10
75-15-0	Carbon disulfide	4.78		1.0	0.10
56-23-5	Carbon tetrachloride	4.43		0.50	0.10
108-90-7	Chlorobenzene	4.80		0.50	0.070
75-00-3	Chloroethane	3.86		0.50	0.10
67-66-3	Chloroform	4.58		0.50	0.090
74-87-3	Chloromethane	3.83		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.92		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.71		0.50	0.10
124-48-1	Dibromochloromethane	4.98		0.50	0.080
100-41-4	Ethylbenzene	4.90		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.80		0.50	0.080
75-09-2	Methylene Chloride	4.81		0.50	0.20
100-42-5	Styrene	4.96		0.50	0.070
127-18-4	Tetrachloroethene	4.44		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-533656/4

Matrix: Water

Lab File ID: CL29X03.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 07/29/2024 19:55

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	4.98		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	4.84		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	4.90		0.50	0.080
79-01-6	Trichloroethene	4.69		0.50	0.080
75-01-4	Vinyl chloride	3.61		0.50	0.10
1330-20-7	Xylenes, Total	14.4		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		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\10193\20240729-120642.b\CL29X03.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 29-Jul-2024 19:55:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-004
 Misc. Info.: LCS
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 29-Jul-2024 21:13:59 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1661

First Level Reviewer: JS6E

Date: 29-Jul-2024 20:21:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.799	1.805	-0.006	99	224919	5.00	2.87	
5 Chloromethane	50	1.988	1.988	0.000	99	339280	5.00	3.83	
6 Vinyl chloride	62	2.086	2.091	-0.005	98	314141	5.00	3.61	
7 Butadiene	39	2.116	2.122	-0.006	89	272110	5.00	2.92	M
9 Bromomethane	94	2.403	2.402	0.001	89	239940	5.00	3.91	
10 Chloroethane	64	2.433	2.439	-0.006	100	192801	5.00	3.86	
11 Dichlorofluoromethane	67	2.689	2.695	-0.006	97	461915	5.00	3.57	
13 Pentane	43	2.726	2.726	0.000	97	405043	5.00	4.68	
12 Trichlorofluoromethane	101	2.744	2.744	0.000	97	333403	5.00	3.29	
16 1,2-Dichloro-1,1,2-trifluoroethane	67	3.012	3.012	0.000	91	270509	5.00	3.63	
18 1,1-Dichloroethene	96	3.189	3.195	-0.006	97	265551	5.00	4.92	
20 Acetone	43	3.207	3.213	-0.006	100	525096	62.5	64.8	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.232	3.232	0.000	90	225959	5.00	4.07	
22 Iodomethane	142	3.360	3.360	0.000	97	511010	5.00	4.55	
24 Isopropyl alcohol	45	3.360	3.366	-0.006	35	67835	37.5	40.7	
25 Carbon disulfide	76	3.439	3.445	-0.006	99	837930	5.00	4.78	M
26 Methyl acetate	43	3.579	3.579	0.000	96	128108	5.00	5.50	
29 3-Chloro-1-propene	41	3.604	3.603	0.001	93	421228	5.00	4.70	
30 Methylene Chloride	84	3.768	3.774	-0.006	90	309404	5.00	4.81	
* 31 t-Butyl alcohol-d10 (IS)	65	3.780	3.786	-0.006	44	163461	50.0	50.0	
32 2-Methyl-2-propanol	59	3.884	3.896	-0.012	100	164378	50.0	52.0	
33 Acrylonitrile	53	4.079	4.079	0.000	100	335131	25.0	28.3	
34 Methyl tert-butyl ether	73	4.128	4.128	0.000	94	791568	5.00	4.80	
35 trans-1,2-Dichloroethene	96	4.134	4.140	-0.006	99	311865	5.00	4.84	
36 Hexane	57	4.548	4.548	0.000	92	367551	5.00	4.39	
37 1,1-Dichloroethane	63	4.786	4.792	-0.006	96	542283	5.00	4.90	
39 Isopropyl ether	45	4.853	4.859	-0.006	95	959243	5.00	4.86	
40 2-Chloro-1,3-butadiene	53	4.902	4.902	0.000	89	413029	5.00	4.50	
41 Tert-butyl ethyl ether	59	5.396	5.402	-0.006	97	936385	5.00	4.84	
42 2-Butanone (MEK)	43	5.609	5.609	0.000	99	1079854	62.5	72.6	
43 cis-1,2-Dichloroethene	96	5.640	5.640	0.000	80	356269	5.00	4.92	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2,2-Dichloropropane	77	5.658	5.658	0.000	86	406432	5.00	4.43	
45 Propionitrile	54	5.701	5.707	-0.006	99	165056	37.5	41.1	
47 Methacrylonitrile	67	5.926	5.926	0.000	91	673602	37.5	45.8	
48 Chlorobromomethane	128	5.969	5.975	-0.006	92	165524	5.00	4.95	
49 Tetrahydrofuran	71	5.975	5.981	-0.006	84	129911	25.0	28.0	
50 Chloroform	83	6.134	6.133	0.001	92	537573	5.00	4.58	
\$ 54 Dibromofluoromethane (Surr)	113	6.353	6.359	-0.006	94	556342	10.0	9.73	
53 1,1,1-Trichloroethane	97	6.353	6.359	-0.006	97	454149	5.00	4.64	
55 Cyclohexane	56	6.451	6.456	-0.005	89	446319	5.00	4.28	
56 Carbon tetrachloride	117	6.566	6.566	0.000	95	393035	5.00	4.43	
57 1,1-Dichloropropene	75	6.572	6.578	-0.006	97	410118	5.00	4.68	
58 Isobutyl alcohol	41	6.768	6.767	0.001	94	151625	125.0	133.7	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.810	6.816	-0.006	99	119141	10.0	10.2	
60 Benzene	78	6.841	6.841	0.000	96	1300919	5.00	4.94	
61 1,2-Dichloroethane	62	6.920	6.920	0.000	97	316633	5.00	4.72	
64 Tert-amyl methyl ether	73	7.048	7.048	0.000	99	872028	5.00	4.85	
* 65 Fluorobenzene (IS)	96	7.261	7.261	0.000	99	2360269	10.0	10.0	
66 n-Heptane	43	7.274	7.279	-0.005	91	404447	5.00	4.66	
67 n-Butanol	56	7.670	7.676	-0.006	88	309259	250.0	296.8	
68 Trichloroethene	95	7.749	7.749	0.000	97	340227	5.00	4.69	
69 Methylcyclohexane	83	8.054	8.054	0.000	91	492387	5.00	4.24	
70 1,2-Dichloropropane	63	8.084	8.090	-0.006	97	341450	5.00	5.07	
71 2-ethoxy-2-methyl butane	87	8.109	8.115	-0.006	94	487808	5.00	4.45	
74 1,4-Dioxane	88	8.182	8.188	-0.006	32	37185	125.0	181.8	M
73 Methyl methacrylate	69	8.188	8.194	-0.006	91	172542	5.00	5.59	
72 Dibromomethane	93	8.194	8.200	-0.006	93	167632	5.00	4.88	
76 Dichlorobromomethane	83	8.444	8.450	-0.006	100	399363	5.00	4.91	
77 2-Nitropropane	41	8.737	8.737	0.000	96	41943	5.00	5.05	
78 1-Bromo-2-chloroethane	63	8.840	8.840	0.000	98	341213	5.00	5.18	
80 cis-1,3-Dichloropropene	75	9.017	9.017	0.000	97	496213	5.00	4.71	
82 4-Methyl-2-pentanone (MIBK)	43	9.224	9.224	0.000	96	2711974	62.5	71.3	
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2382976	10.0	10.1	
84 Toluene	92	9.432	9.432	0.000	98	870024	5.00	4.98	
85 trans-1,3-Dichloropropene	75	9.718	9.718	0.000	91	436982	5.00	4.90	
86 Ethyl methacrylate	69	9.797	9.797	0.000	89	367324	5.00	4.81	
87 1,1,2-Trichloroethane	97	9.932	9.938	-0.006	89	257089	5.00	5.08	
88 Tetrachloroethene	166	10.017	10.017	0.000	97	385166	5.00	4.44	
89 1,3-Dichloropropane	76	10.102	10.102	0.000	89	420113	5.00	5.00	
106 2-Hexanone	43	10.175	10.175	0.000	95	2010759	62.5	72.7	
108 Chlorodibromomethane	129	10.328	10.328	0.000	90	323676	5.00	4.98	
110 Ethylene Dibromide	107	10.438	10.437	0.001	99	250193	5.00	4.99	
* 111 Chlorobenzene-d5 (IS)	117	10.895	10.895	0.000	83	1841071	10.0	10.0	
112 1-Chlorohexane	91	10.913	10.913	0.000	97	434382	5.00	4.24	
113 Chlorobenzene	112	10.919	10.919	0.000	97	1003623	5.00	4.80	
114 1,1,1,2-Tetrachloroethane	131	11.011	11.010	0.001	96	350418	5.00	4.76	
115 Ethylbenzene	91	11.017	11.017	0.000	97	1681459	5.00	4.90	
116 m-Xylene & p-Xylene	106	11.139	11.138	0.001	97	1350993	10.0	9.61	
118 o-Xylene	106	11.474	11.480	-0.006	96	663781	5.00	4.79	
119 Styrene	104	11.492	11.492	0.000	95	1139277	5.00	4.96	
120 Bromoform	173	11.651	11.651	0.000	98	204126	5.00	4.87	
121 Isopropylbenzene	105	11.791	11.791	0.000	95	1703246	5.00	5.18	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	95	867720	10.0	9.79	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
126 1,1,2,2-Tetrachloroethane	83	12.047	12.047	0.000	70	316525	5.00	5.14	
125 Bromobenzene	156	12.047	12.047	0.000	88	461493	5.00	4.97	
127 trans-1,4-Dichloro-2-butene	53	12.071	12.077	-0.006	89	384626	25.0	26.6	
128 1,2,3-Trichloropropane	110	12.090	12.090	0.000	80	87038	5.00	5.09	
129 N-Propylbenzene	91	12.126	12.126	0.000	98	1999458	5.00	5.01	
130 2-Chlorotoluene	126	12.199	12.205	-0.006	98	423508	5.00	4.73	
131 1,3,5-Trimethylbenzene	105	12.273	12.272	0.001	93	1477481	5.00	4.96	
132 4-Chlorotoluene	126	12.297	12.297	0.000	96	438871	5.00	4.70	
133 tert-Butylbenzene	134	12.516	12.516	0.000	92	307186	5.00	4.28	
135 1,2,4-Trimethylbenzene	105	12.559	12.559	0.000	97	1504144	5.00	4.89	
136 sec-Butylbenzene	105	12.687	12.687	0.000	93	1873191	5.00	4.87	
137 1,3-Dichlorobenzene	146	12.779	12.778	0.001	98	898695	5.00	4.90	
138 4-Isopropyltoluene	119	12.797	12.797	0.000	97	1649124	5.00	4.77	
* 139 1,4-Dichlorobenzene-d4	152	12.833	12.839	-0.006	93	1055377	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.852	12.858	-0.006	96	923613	5.00	4.92	
141 1,2,3-Trimethylbenzene	120	12.870	12.870	0.000	98	661654	5.00	4.66	
142 Benzyl chloride	126	12.937	12.937	0.000	98	134555	5.00	4.77	
145 p-Diethylbenzene	119	13.071	13.077	-0.006	94	1052814	5.00	4.89	
143 n-Butylbenzene	92	13.096	13.095	0.001	97	811083	5.00	4.89	
144 1,2-Dichlorobenzene	146	13.120	13.120	0.000	99	838935	5.00	5.01	
148 1,2-Dibromo-3-Chloropropane	155	13.675	13.675	0.000	91	47126	5.00	4.62	
149 1,3,5-Trichlorobenzene	180	13.797	13.803	-0.006	98	683341	5.00	4.80	
150 1,2,4-Trichlorobenzene	180	14.230	14.229	0.001	94	559805	5.00	4.85	
151 Hexachlorobutadiene	225	14.315	14.315	0.000	96	274400	5.00	4.61	
152 Naphthalene	128	14.412	14.412	0.000	96	919353	5.00	5.04	
153 1,2,3-Trichlorobenzene	180	14.559	14.559	0.000	96	429095	5.00	4.77	
154 2-Methylnaphthalene	142	15.168	15.168	0.000	92	292087	5.00	3.61	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_QC_Gas826_00209

Amount Added: 12.50

Units: uL

MSV_LCS_VOC#1_00178

Amount Added: 12.50

Units: uL

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 29-Jul-2024 21:14:02

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X03.D

Injection Date: 29-Jul-2024 19:55:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

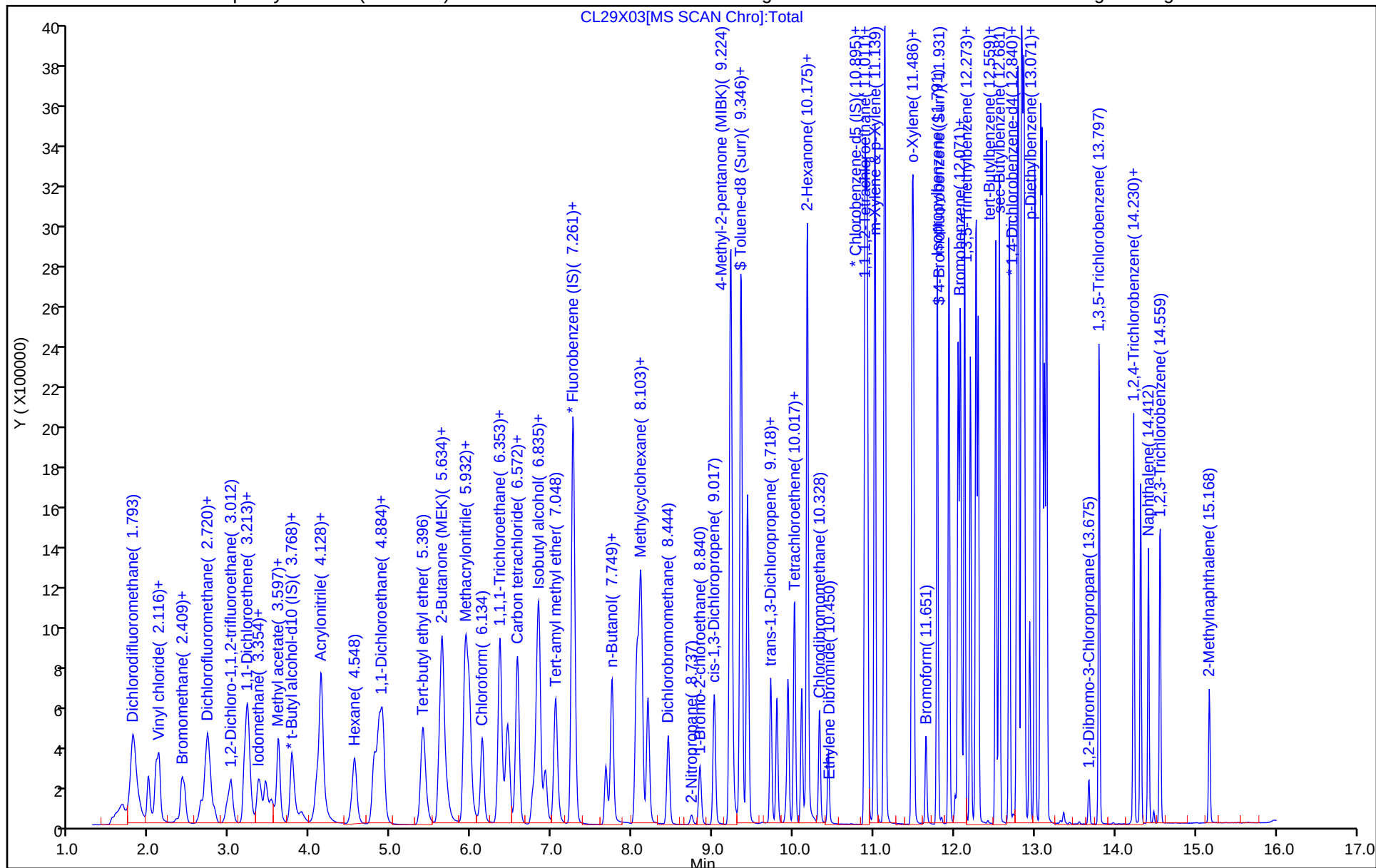
ALS Bottle#: 3

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 29-Jul-2024 19:55:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-004
Misc. Info.: LCS
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jul-2024 21:13:59 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1661

First Level Reviewer: JS6E

Date: 29-Jul-2024 20:21:18

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.73	97.33
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.88
\$ 83 Toluene-d8 (Surr)	10.0	10.1	101.02
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.79	97.85

Eurofins Lancaster Laboratories Environment Testing, LLC

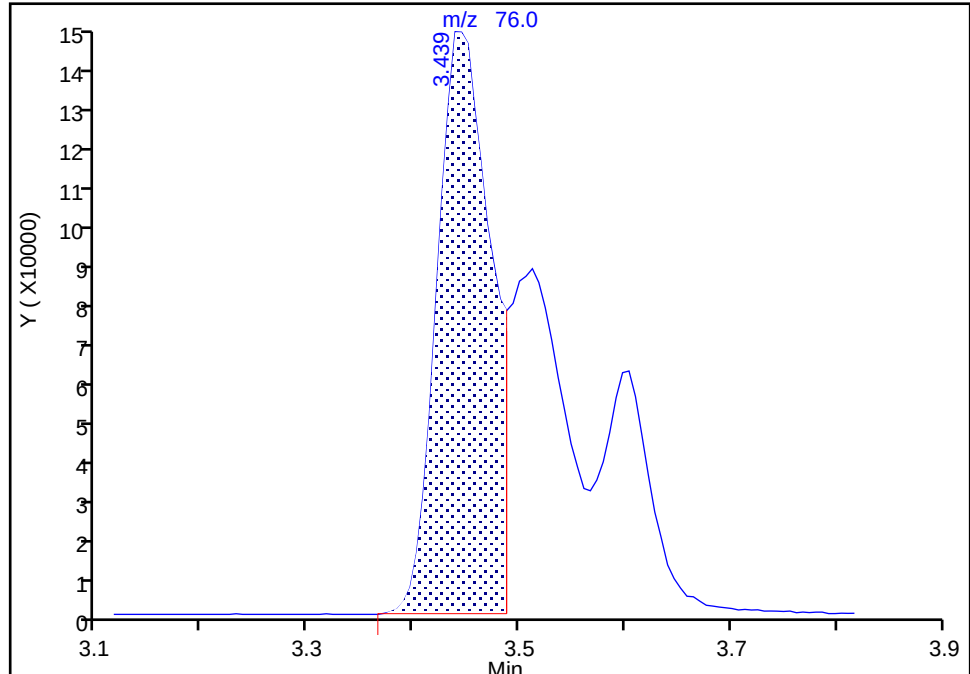
Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X03.D
Injection Date: 29-Jul-2024 19:55:30 Instrument ID: 10193
Lims ID: LCS
Client ID:
Operator ID: gaw91131 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

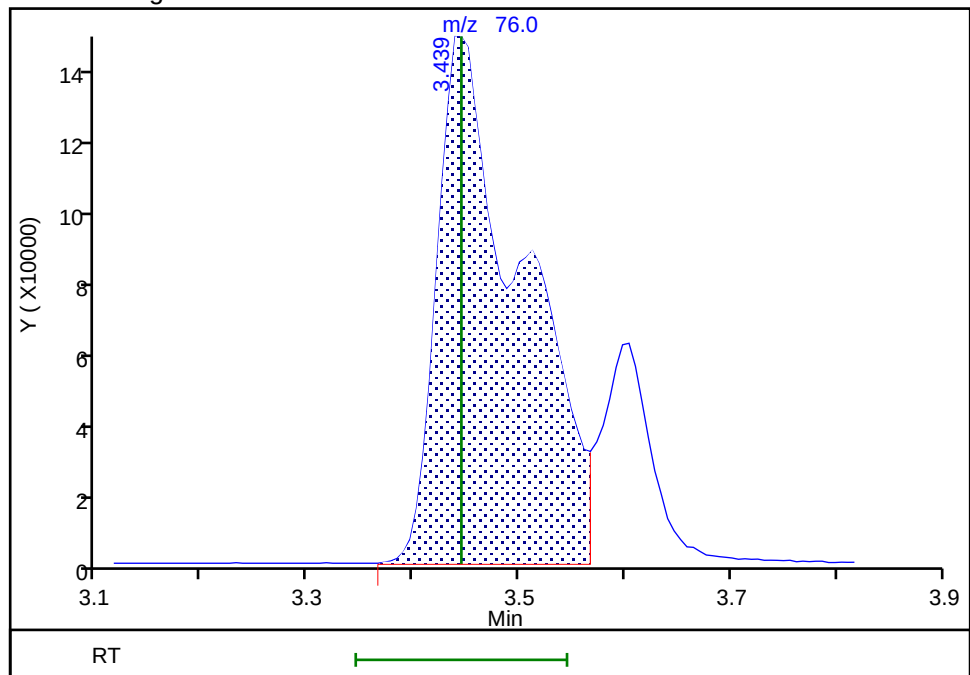
RT: 3.44
Area: 534894
Amount: 3.051704
Amount Units: ug/l

Processing Integration Results



RT: 3.44
Area: 837930
Amount: 4.780600
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 29-Jul-2024 20:19:54 -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.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS

Lab Sample ID: 410-181527-6 MS

Matrix: Water

Lab File ID: CL29X19.D

Analysis Method: 8260D

Date Collected: 07/25/2024 11:40

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 01:52

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.35		0.50	0.070
71-55-6	1,1,1-Trichloroethane	6.06		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.33		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.51		0.50	0.080
75-34-3	1,1-Dichloroethane	5.82		0.50	0.10
75-35-4	1,1-Dichloroethene	6.33		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.38		0.50	0.080
107-06-2	1,2-Dichloroethane	5.39		0.50	0.070
78-87-5	1,2-Dichloropropane	5.62		0.50	0.10
78-93-3	2-Butanone (MEK)	69.3		5.0	1.0
591-78-6	2-Hexanone	73.1		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	72.1		5.0	1.0
67-64-1	Acetone	68.7		5.0	1.5
71-43-2	Benzene	5.77		0.50	0.10
74-97-5	Bromochloromethane	5.65		0.50	0.080
75-27-4	Bromodichloromethane	5.61		0.50	0.080
75-25-2	Bromoform	5.14		1.0	0.30
74-83-9	Bromomethane	5.33		0.50	0.10
75-15-0	Carbon disulfide	5.91		1.0	0.10
56-23-5	Carbon tetrachloride	5.66		0.50	0.10
108-90-7	Chlorobenzene	5.49		0.50	0.070
75-00-3	Chloroethane	5.16		0.50	0.10
67-66-3	Chloroform	5.52		0.50	0.090
74-87-3	Chloromethane	5.37		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	7.21		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.05		0.50	0.10
124-48-1	Dibromochloromethane	5.41		0.50	0.080
100-41-4	Ethylbenzene	5.65		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.13		0.50	0.080
75-09-2	Methylene Chloride	5.42		0.50	0.20
100-42-5	Styrene	5.56		0.50	0.070
127-18-4	Tetrachloroethene	11.5		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS

Lab Sample ID: 410-181527-6 MS

Matrix: Water

Lab File ID: CL29X19.D

Analysis Method: 8260D

Date Collected: 07/25/2024 11:40

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 01:52

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	5.69		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	5.80		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.07		0.50	0.080
79-01-6	Trichloroethene	6.92		0.50	0.080
75-01-4	Vinyl chloride	5.43		0.50	0.10
1330-20-7	Xylenes, Total	16.7		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		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\10193\20240729-120642.b\CL29X19.D
 Lims ID: 410-181527-A-6 MS
 Client ID: HD-COD-SW-15-0/1-0 MS
 Sample Type: MS
 Inject. Date: 30-Jul-2024 01:52:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-020
 Misc. Info.: 410-181527-A-6 MS
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 14:40:39 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:39:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.805	1.805	0.000	99	388375	5.00	5.43	
5 Chloromethane	50	1.988	1.988	0.000	99	433783	5.00	5.37	
6 Vinyl chloride	62	2.092	2.091	0.001	98	431858	5.00	5.43	
7 Butadiene	39	2.122	2.122	0.000	90	428191	5.00	5.04	M
9 Bromomethane	94	2.402	2.402	0.000	89	297718	5.00	5.33	
10 Chloroethane	64	2.439	2.439	0.000	100	234815	5.00	5.16	
11 Dichlorofluoromethane	67	2.695	2.695	0.000	97	577405	5.00	4.90	
13 Pentane	43	2.726	2.726	0.000	97	504758	5.00	6.40	
12 Trichlorofluoromethane	101	2.744	2.744	0.000	97	507948	5.00	5.49	
16 1,2-Dichloro-1,1,2-trifluoroethane	67	3.018	3.012	0.006	90	358163	5.00	5.26	
18 1,1-Dichloroethene	96	3.195	3.195	0.000	97	311597	5.00	6.33	
20 Acetone	43	3.213	3.213	0.000	100	525751	62.6	68.7	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.232	3.232	0.000	90	277483	5.00	5.48	
22 Iodomethane	142	3.360	3.360	0.000	97	550856	5.00	5.37	
24 Isopropyl alcohol	45	3.372	3.366	0.006	34	67970	37.5	43.2	
25 Carbon disulfide	76	3.451	3.445	0.006	99	944980	5.00	5.91	M
26 Methyl acetate	43	3.585	3.579	0.006	96	119035	5.00	5.41	
29 3-Chloro-1-propene	41	3.603	3.603	0.000	92	434150	5.00	5.31	
30 Methylene Chloride	84	3.774	3.774	0.000	92	318122	5.00	5.42	
* 31 t-Butyl alcohol-d10 (IS)	65	3.780	3.786	-0.006	96	154419	50.0	50.0	
32 2-Methyl-2-propanol	59	3.896	3.896	0.000	98	153188	50.0	51.3	
33 Acrylonitrile	53	4.079	4.079	0.000	100	315822	25.0	28.2	
34 Methyl tert-butyl ether	73	4.134	4.128	0.006	94	770368	5.00	5.13	
35 trans-1,2-Dichloroethene	96	4.134	4.140	-0.006	99	340829	5.00	5.80	
36 Hexane	57	4.548	4.548	0.000	91	448956	5.00	5.88	
37 1,1-Dichloroethane	63	4.792	4.792	0.000	96	587484	5.00	5.82	
39 Isopropyl ether	45	4.859	4.859	0.000	95	953230	5.00	5.30	
40 2-Chloro-1,3-butadiene	53	4.902	4.902	0.000	89	459696	5.00	5.49	
41 Tert-butyl ethyl ether	59	5.402	5.402	0.000	97	905514	5.00	5.14	
42 2-Butanone (MEK)	43	5.615	5.609	0.006	99	973685	62.6	69.3	
43 cis-1,2-Dichloroethene	96	5.640	5.640	0.000	80	475671	5.00	7.21	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2,2-Dichloropropane	77	5.658	5.658	0.000	87	410770	5.00	4.91	
45 Propionitrile	54	5.713	5.707	0.006	98	164728	37.5	43.4	
47 Methacrylonitrile	67	5.932	5.926	0.006	91	654981	37.5	47.1	
48 Chlorobromomethane	128	5.975	5.975	0.000	91	172117	5.00	5.65	
49 Tetrahydrofuran	71	5.981	5.981	0.000	74	122522	25.0	27.9	
50 Chloroform	83	6.140	6.133	0.007	93	590831	5.00	5.52	
\$ 54 Dibromofluoromethane (Surr)	113	6.353	6.359	-0.006	94	521482	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.359	6.359	0.000	96	541476	5.00	6.06	
55 Cyclohexane	56	6.457	6.456	0.001	89	539521	5.00	5.67	
56 Carbon tetrachloride	117	6.566	6.566	0.000	95	457920	5.00	5.66	
57 1,1-Dichloropropene	75	6.572	6.578	-0.006	96	452011	5.00	5.66	
58 Isobutyl alcohol	41	6.761	6.767	-0.006	93	147898	125.1	138.1	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.816	6.816	0.000	99	108684	10.0	10.2	
60 Benzene	78	6.841	6.841	0.000	96	1384145	5.00	5.77	
61 1,2-Dichloroethane	62	6.920	6.920	0.000	97	330172	5.00	5.39	
64 Tert-amyl methyl ether	73	7.048	7.048	0.000	99	830592	5.00	5.07	
* 65 Fluorobenzene (IS)	96	7.261	7.261	0.000	99	2152328	10.0	10.0	
66 n-Heptane	43	7.280	7.279	0.001	87	478885	5.00	6.05	
67 n-Butanol	56	7.670	7.676	-0.006	88	263526	250.2	267.7	
68 Trichloroethene	95	7.749	7.749	0.000	97	457293	5.00	6.92	
69 Methylcyclohexane	83	8.054	8.054	0.000	88	602686	5.00	5.69	
70 1,2-Dichloropropane	63	8.084	8.090	-0.006	98	345220	5.00	5.62	
71 2-ethoxy-2-methyl butane	87	8.109	8.115	-0.006	95	480362	5.00	4.81	
74 1,4-Dioxane	88	8.182	8.188	-0.006	33	38636	125.1	200.0	M
73 Methyl methacrylate	69	8.188	8.194	-0.006	92	161790	5.00	5.55	
72 Dibromomethane	93	8.200	8.200	0.000	94	167535	5.00	5.35	
76 Dichlorobromomethane	83	8.444	8.450	-0.006	99	416100	5.00	5.61	
77 2-Nitropropane	41	8.737	8.737	0.000	99	39782	5.00	5.07	
78 1-Bromo-2-chloroethane	63	8.840	8.840	0.000	98	334464	5.00	5.57	
80 cis-1,3-Dichloropropene	75	9.017	9.017	0.000	97	484537	5.00	5.05	
82 4-Methyl-2-pentanone (MIBK)	43	9.218	9.224	-0.006	95	2590564	62.6	72.1	
\$ 83 Toluene-d8 (Surr)	98	9.352	9.352	0.000	93	2178713	10.0	10.0	
84 Toluene	92	9.432	9.432	0.000	98	916986	5.00	5.69	
85 trans-1,3-Dichloropropene	75	9.718	9.718	0.000	91	415653	5.00	5.07	
86 Ethyl methacrylate	69	9.797	9.797	0.000	88	346208	5.00	4.93	
87 1,1,2-Trichloroethane	97	9.932	9.938	-0.006	89	256668	5.00	5.51	
88 Tetrachloroethene	166	10.017	10.017	0.000	97	919785	5.00	11.5	
89 1,3-Dichloropropane	76	10.102	10.102	0.000	88	419122	5.00	5.41	
106 2-Hexanone	43	10.175	10.175	0.000	95	1908966	62.6	73.1	
108 Chlorodibromomethane	129	10.328	10.328	0.000	89	323655	5.00	5.41	
110 Ethylene Dibromide	107	10.438	10.437	0.001	99	248725	5.00	5.38	
* 111 Chlorobenzene-d5 (IS)	117	10.889	10.895	-0.006	83	1695402	10.0	10.0	
112 1-Chlorohexane	91	10.913	10.913	0.000	97	479615	5.00	5.08	
113 Chlorobenzene	112	10.919	10.919	0.000	97	1057403	5.00	5.49	
114 1,1,1,2-Tetrachloroethane	131	11.011	11.010	0.001	96	363162	5.00	5.35	
115 Ethylbenzene	91	11.017	11.017	0.000	97	1785432	5.00	5.65	
116 m-Xylene & p-Xylene	106	11.139	11.138	0.001	97	1445892	10.0	11.2	
118 o-Xylene	106	11.474	11.480	-0.006	96	697484	5.00	5.46	
119 Styrene	104	11.492	11.492	0.000	95	1174983	5.00	5.56	
120 Bromoform	173	11.651	11.651	0.000	99	198458	5.00	5.14	
121 Isopropylbenzene	105	11.791	11.791	0.000	95	1816237	5.00	5.99	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	95	785213	10.0	9.62	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
126 1,1,2,2-Tetrachloroethane	83	12.047	12.047	0.000	69	302272	5.00	5.33	
125 Bromobenzene	156	12.047	12.047	0.000	88	476626	5.00	5.58	
127 trans-1,4-Dichloro-2-butene	53	12.071	12.077	-0.006	89	329731	25.0	24.8	
128 1,2,3-Trichloropropane	110	12.090	12.090	0.000	81	87320	5.00	5.55	
129 N-Propylbenzene	91	12.126	12.126	0.000	98	2144499	5.00	5.84	
130 2-Chlorotoluene	126	12.199	12.205	-0.006	98	446701	5.00	5.43	
131 1,3,5-Trimethylbenzene	105	12.273	12.272	0.001	94	1546870	5.00	5.64	
132 4-Chlorotoluene	126	12.297	12.297	0.000	96	464719	5.00	5.42	
133 tert-Butylbenzene	134	12.516	12.516	0.000	91	330620	5.00	5.01	
135 1,2,4-Trimethylbenzene	105	12.559	12.559	0.000	97	1561454	5.00	5.52	
136 sec-Butylbenzene	105	12.681	12.687	-0.006	93	2045219	5.00	5.78	
137 1,3-Dichlorobenzene	146	12.779	12.778	0.001	98	944019	5.00	5.60	
138 4-Isopropyltoluene	119	12.797	12.797	0.000	97	1765831	5.00	5.55	
* 139 1,4-Dichlorobenzene-d4	152	12.833	12.839	-0.006	93	970665	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.852	12.858	-0.006	96	970246	5.00	5.62	
141 1,2,3-Trimethylbenzene	120	12.870	12.870	0.000	98	693391	5.00	5.31	
142 Benzyl chloride	126	12.937	12.937	0.000	98	113663	5.00	4.38	
145 p-Diethylbenzene	119	13.071	13.077	-0.006	94	1123984	5.00	5.67	
143 n-Butylbenzene	92	13.089	13.095	-0.006	97	874284	5.00	5.73	
144 1,2-Dichlorobenzene	146	13.120	13.120	0.000	99	852611	5.00	5.54	
148 1,2-Dibromo-3-Chloropropane	155	13.675	13.675	0.000	93	44645	5.00	4.76	
149 1,3,5-Trichlorobenzene	180	13.797	13.803	-0.006	98	699747	5.00	5.35	
150 1,2,4-Trichlorobenzene	180	14.229	14.229	0.000	94	553734	5.00	5.22	
151 Hexachlorobutadiene	225	14.315	14.315	0.000	96	306855	5.00	5.60	
152 Naphthalene	128	14.412	14.412	0.000	96	844826	5.00	5.03	
153 1,2,3-Trichlorobenzene	180	14.559	14.559	0.000	96	410200	5.00	4.96	
154 2-Methylnaphthalene	142	15.168	15.168	0.000	92	230734	5.00	3.10	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_QC_Gas826_00209

Amount Added: 5.38

Units: uL

MSV_LCS_VOC#1_00178

Amount Added: 5.38

Units: uL

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X19.D

Injection Date: 30-Jul-2024 01:52:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-A-6 MS

Worklist Smp#: 20

Client ID: HD-COD-SW-15-0/1-0 MS

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

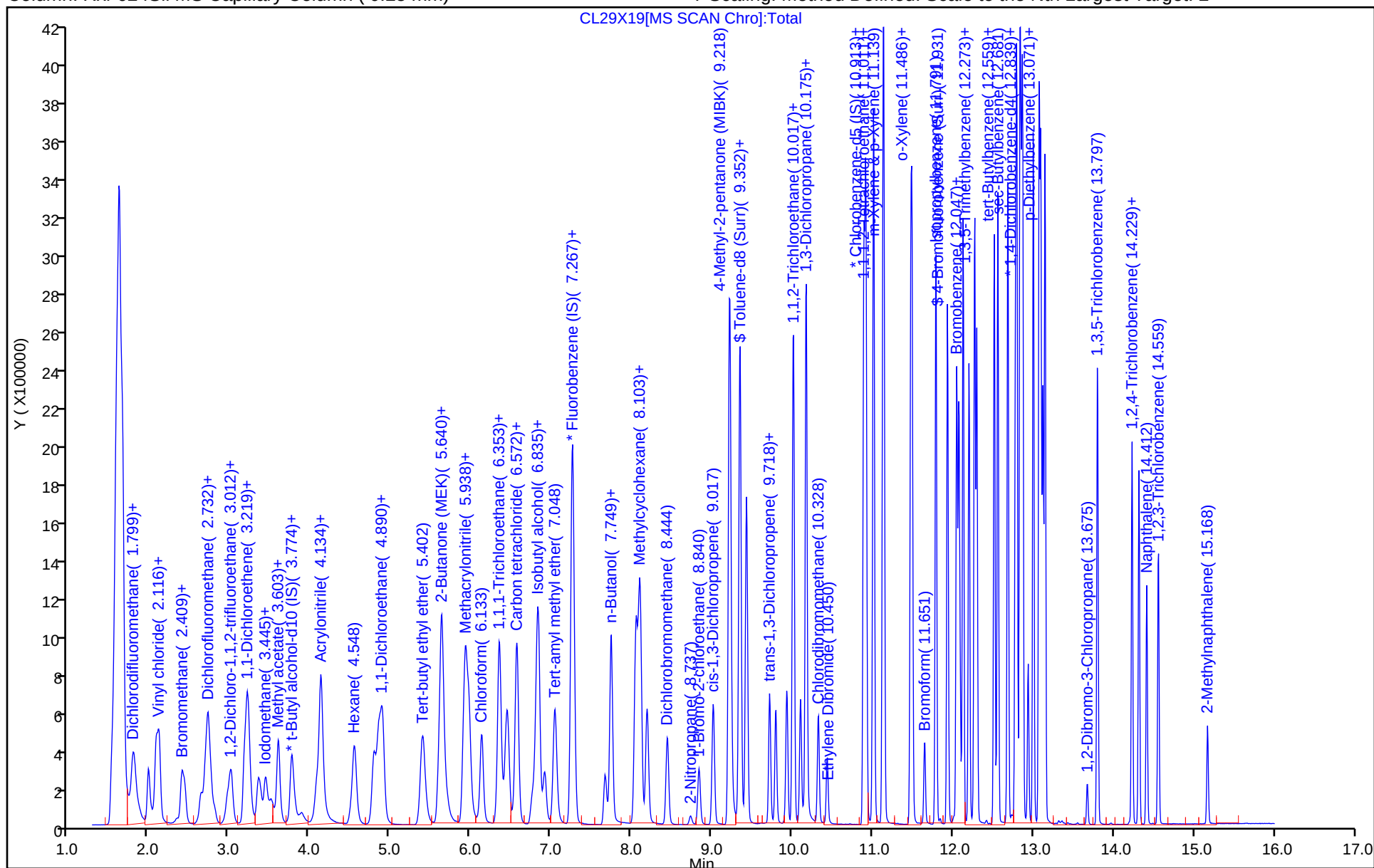
ALS Bottle#: 19

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X19.D
Lims ID: 410-181527-A-6 MS
Client ID: HD-COD-SW-15-0/1-0 MS
Sample Type: MS
Inject. Date: 30-Jul-2024 01:52:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-020
Misc. Info.: 410-181527-A-6 MS
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 14:40:39 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:39:32

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.0	100.05
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.92
\$ 83 Toluene-d8 (Surr)	10.0	10.0	100.29
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.62	96.16

Eurofins Lancaster Laboratories Environment Testing, LLC

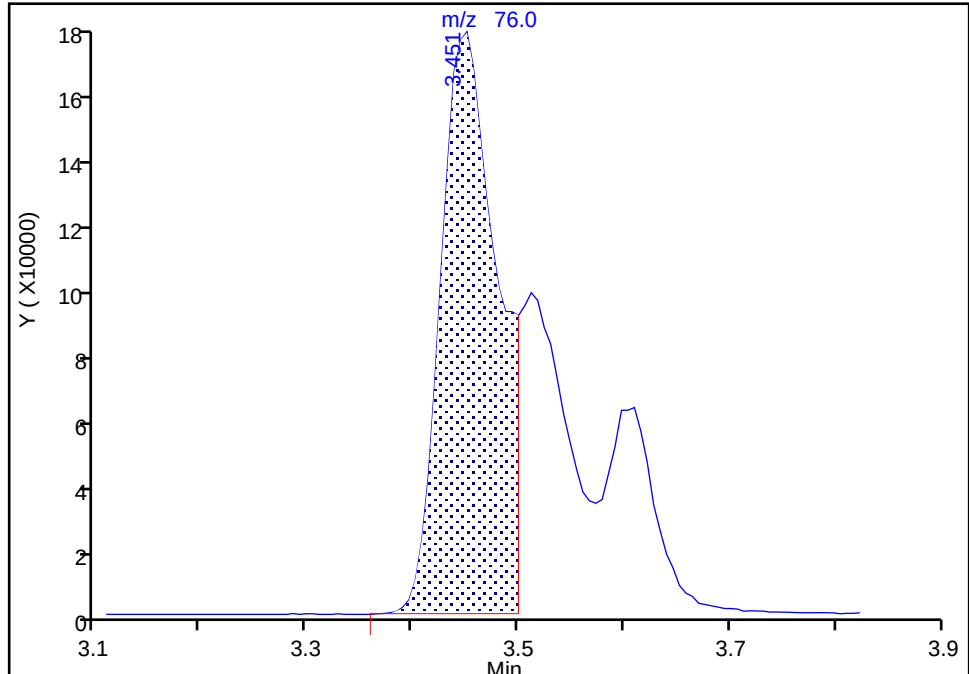
Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X19.D
Injection Date: 30-Jul-2024 01:52:30 Instrument ID: 10193
Lims ID: 410-181527-A-6 MS
Client ID: HD-COD-SW-15-0/1-0 MS
Operator ID: gaw91131 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

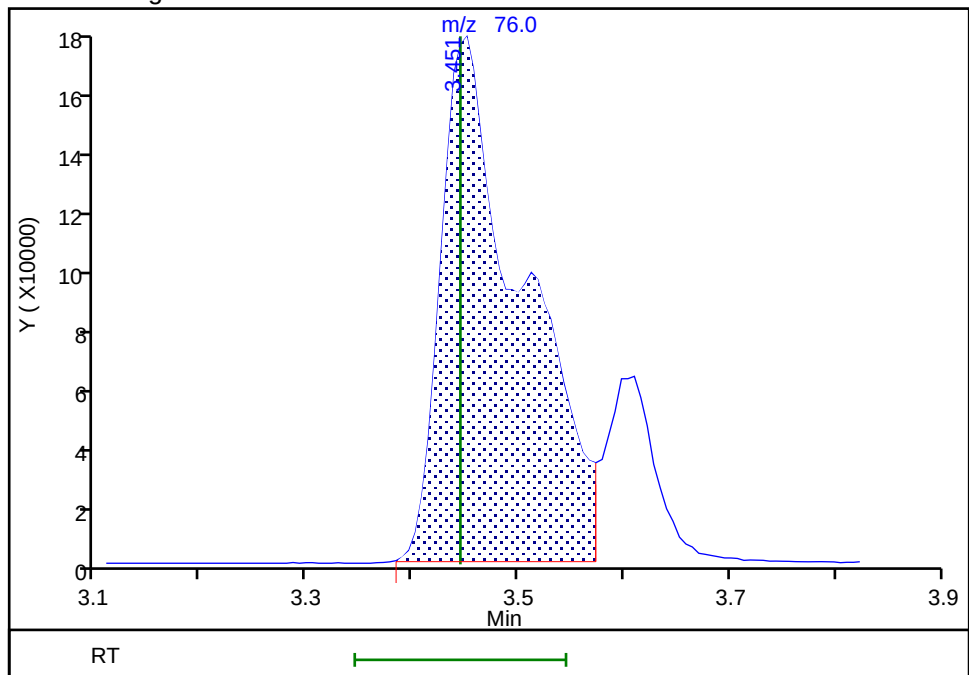
RT: 3.45
Area: 666337
Amount: 4.168902
Amount Units: ug/l

Processing Integration Results



RT: 3.45
Area: 944980
Amount: 5.912217
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 30-Jul-2024 14:40:34 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.: 410-181527-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD
MSD

Lab Sample ID: 410-181527-6 MSD

Matrix: Water

Lab File ID: CL29X20.D

Analysis Method: 8260D

Date Collected: 07/25/2024 11:40

Sample wt/vol: 25 (mL)

Date Analyzed: 07/30/2024 02:14

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 533656

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.28		0.50	0.070
71-55-6	1,1,1-Trichloroethane	6.01		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.31		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.43		0.50	0.080
75-34-3	1,1-Dichloroethane	5.73		0.50	0.10
75-35-4	1,1-Dichloroethene	6.30		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.40		0.50	0.080
107-06-2	1,2-Dichloroethane	5.12		0.50	0.070
78-87-5	1,2-Dichloropropane	5.58		0.50	0.10
78-93-3	2-Butanone (MEK)	73.1		5.0	1.0
591-78-6	2-Hexanone	75.1		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	72.3		5.0	1.0
67-64-1	Acetone	68.0		5.0	1.5
71-43-2	Benzene	5.62		0.50	0.10
74-97-5	Bromochloromethane	5.44		0.50	0.080
75-27-4	Bromodichloromethane	5.45		0.50	0.080
75-25-2	Bromoform	5.10		1.0	0.30
74-83-9	Bromomethane	4.74		0.50	0.10
75-15-0	Carbon disulfide	5.79		1.0	0.10
56-23-5	Carbon tetrachloride	5.60		0.50	0.10
108-90-7	Chlorobenzene	5.47		0.50	0.070
75-00-3	Chloroethane	5.18		0.50	0.10
67-66-3	Chloroform	5.41		0.50	0.090
74-87-3	Chloromethane	5.17		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	7.09		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.04		0.50	0.10
124-48-1	Dibromochloromethane	5.38		0.50	0.080
100-41-4	Ethylbenzene	5.66		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.02		0.50	0.080
75-09-2	Methylene Chloride	5.38		0.50	0.20
100-42-5	Styrene	5.49		0.50	0.070

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-15-0/1-0 MSD Lab Sample ID: 410-181527-6 MSD
MSD

Matrix: Water Lab File ID: CL29X20.D

Analysis Method: 8260D Date Collected: 07/25/2024 11:40

Sample wt/vol: 25 (mL) Date Analyzed: 07/30/2024 02:14

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 533656 Units: ug/L

Preparation Batch No.: _____ Instrument ID: Agilent GC/MS - HP25

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	11.5		0.50	0.20
108-88-3	Toluene	5.65		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	5.71		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.15		0.50	0.080
79-01-6	Trichloroethene	6.91		0.50	0.080
75-01-4	Vinyl chloride	5.45		0.50	0.10
1330-20-7	Xylenes, Total	16.5		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\10193\20240729-120642.b\CL29X20.D
 Lims ID: 410-181527-A-6 MSD
 Client ID: HD-COD-SW-15-0/1-0 MSD
 Sample Type: MSD
 Inject. Date: 30-Jul-2024 02:14:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0120642-021
 Misc. Info.: 410-181527-A-6 MSD
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 30-Jul-2024 14:42:14 Calib Date: 15-Jun-2024 00:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:42:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.799	1.805	-0.006	99	387528	5.00	5.32	
5 Chloromethane	50	1.988	1.988	0.000	99	425192	5.00	5.17	
6 Vinyl chloride	62	2.092	2.091	0.001	98	440728	5.00	5.45	
7 Butadiene	39	2.116	2.122	-0.006	90	434539	5.00	5.02	M
9 Bromomethane	94	2.402	2.402	0.000	90	269672	5.00	4.74	
10 Chloroethane	64	2.439	2.439	0.000	100	240076	5.00	5.18	
11 Dichlorofluoromethane	67	2.695	2.695	0.000	97	576798	5.00	4.80	
13 Pentane	43	2.726	2.726	0.000	98	507259	5.00	6.31	
12 Trichlorofluoromethane	101	2.744	2.744	0.000	97	519081	5.00	5.51	
16 1,2-Dichloro-1,1,2-trifluoroethane	67	3.012	3.012	0.000	90	369762	5.00	5.34	
18 1,1-Dichloroethene	96	3.189	3.195	-0.006	97	315788	5.00	6.30	
20 Acetone	43	3.213	3.213	0.000	100	517320	62.6	68.0	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.232	3.232	0.000	91	279879	5.00	5.43	
22 Iodomethane	142	3.360	3.360	0.000	97	555763	5.00	5.32	
24 Isopropyl alcohol	45	3.366	3.366	0.000	33	59379	37.5	37.9	
25 Carbon disulfide	76	3.445	3.445	0.000	99	942610	5.00	5.79	M
26 Methyl acetate	43	3.579	3.579	0.000	97	119755	5.00	5.48	
29 3-Chloro-1-propene	41	3.603	3.603	0.000	92	440807	5.00	5.29	
30 Methylene Chloride	84	3.774	3.774	0.000	89	321676	5.00	5.38	
* 31 t-Butyl alcohol-d10 (IS)	65	3.774	3.786	-0.012	43	153478	50.0	50.0	
32 2-Methyl-2-propanol	59	3.902	3.896	0.006	99	156278	50.0	52.7	
33 Acrylonitrile	53	4.079	4.079	0.000	100	314934	25.0	28.3	
34 Methyl tert-butyl ether	73	4.128	4.128	0.000	91	768368	5.00	5.02	
35 trans-1,2-Dichloroethene	96	4.134	4.140	-0.006	99	341803	5.00	5.71	
36 Hexane	57	4.548	4.548	0.000	91	459548	5.00	5.91	
37 1,1-Dichloroethane	63	4.792	4.792	0.000	96	588877	5.00	5.73	
39 Isopropyl ether	45	4.853	4.859	-0.006	94	959933	5.00	5.24	
40 2-Chloro-1,3-butadiene	53	4.902	4.902	0.000	89	460491	5.00	5.40	
41 Tert-butyl ethyl ether	59	5.402	5.402	0.000	97	907672	5.00	5.06	
42 2-Butanone (MEK)	43	5.615	5.609	0.006	99	1021349	62.6	73.1	
43 cis-1,2-Dichloroethene	96	5.634	5.640	-0.006	79	476777	5.00	7.09	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2,2-Dichloropropane	77	5.652	5.658	-0.006	86	409811	5.00	4.81	
45 Propionitrile	54	5.707	5.707	0.000	99	161529	37.5	42.9	
47 Methacrylonitrile	67	5.932	5.926	0.006	91	649200	37.5	47.0	
48 Chlorobromomethane	128	5.975	5.975	0.000	92	168819	5.00	5.44	
49 Tetrahydrofuran	71	5.987	5.981	0.006	86	125558	25.0	28.8	
50 Chloroform	83	6.133	6.133	0.000	92	589339	5.00	5.41	
\$ 54 Dibromofluoromethane (Surr)	113	6.353	6.359	-0.006	94	524645	10.0	9.88	
53 1,1,1-Trichloroethane	97	6.359	6.359	0.000	83	546514	5.00	6.01	
55 Cyclohexane	56	6.450	6.456	-0.006	89	542339	5.00	5.60	
56 Carbon tetrachloride	117	6.566	6.566	0.000	96	461068	5.00	5.60	
57 1,1-Dichloropropene	75	6.572	6.578	-0.006	98	459143	5.00	5.65	
58 Isobutyl alcohol	41	6.774	6.767	0.007	94	144131	125.1	135.4	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.816	6.816	0.000	98	111711	10.0	10.3	
60 Benzene	78	6.841	6.841	0.000	96	1374099	5.00	5.62	
61 1,2-Dichloroethane	62	6.920	6.920	0.000	97	319542	5.00	5.12	
64 Tert-amyl methyl ether	73	7.042	7.048	-0.006	99	837485	5.00	5.02	
* 65 Fluorobenzene (IS)	96	7.261	7.261	0.000	98	2191837	10.0	10.0	
66 n-Heptane	43	7.280	7.279	0.001	87	478465	5.00	5.94	
67 n-Butanol	56	7.676	7.676	0.000	88	281490	250.2	287.7	
68 Trichloroethene	95	7.743	7.749	-0.006	97	465004	5.00	6.91	
69 Methylcyclohexane	83	8.054	8.054	0.000	87	622458	5.00	5.77	
70 1,2-Dichloropropane	63	8.084	8.090	-0.006	96	349269	5.00	5.58	
71 2-ethoxy-2-methyl butane	87	8.109	8.115	-0.006	95	488986	5.00	4.81	
74 1,4-Dioxane	88	8.188	8.188	0.000	33	40429	125.1	210.6	
73 Methyl methacrylate	69	8.188	8.194	-0.006	91	161355	5.00	5.57	
72 Dibromomethane	93	8.194	8.200	-0.006	94	168340	5.00	5.28	
76 Dichlorobromomethane	83	8.444	8.450	-0.006	99	411391	5.00	5.45	
77 2-Nitropropane	41	8.731	8.737	-0.007	97	38039	5.00	4.88	
78 1-Bromo-2-chloroethane	63	8.840	8.840	0.000	98	346225	5.00	5.66	
80 cis-1,3-Dichloropropene	75	9.017	9.017	0.000	97	492860	5.00	5.04	
82 4-Methyl-2-pentanone (MIBK)	43	9.218	9.224	-0.006	95	2580579	62.6	72.3	
\$ 83 Toluene-d8 (Surr)	98	9.346	9.352	-0.006	93	2222533	10.0	10.0	
84 Toluene	92	9.432	9.432	0.000	98	928504	5.00	5.65	
85 trans-1,3-Dichloropropene	75	9.718	9.718	0.000	91	431012	5.00	5.15	
86 Ethyl methacrylate	69	9.797	9.797	0.000	89	352410	5.00	4.92	
87 1,1,2-Trichloroethane	97	9.931	9.938	-0.007	89	258129	5.00	5.43	
88 Tetrachloroethene	166	10.017	10.017	0.000	97	936854	5.00	11.5	
89 1,3-Dichloropropane	76	10.102	10.102	0.000	89	421424	5.00	5.34	
106 2-Hexanone	43	10.175	10.175	0.000	97	1949512	62.6	75.1	
108 Chlorodibromomethane	129	10.328	10.328	0.000	89	328459	5.00	5.38	
110 Ethylene Dibromide	107	10.431	10.437	-0.006	99	254622	5.00	5.40	
* 111 Chlorobenzene-d5 (IS)	117	10.889	10.895	-0.006	84	1729492	10.0	10.0	
112 1-Chlorohexane	91	10.913	10.913	0.000	97	492239	5.00	5.11	
113 Chlorobenzene	112	10.919	10.919	0.000	97	1073949	5.00	5.47	
114 1,1,1,2-Tetrachloroethane	131	11.011	11.010	0.001	96	365558	5.00	5.28	
115 Ethylbenzene	91	11.017	11.017	0.000	97	1825333	5.00	5.66	
116 m-Xylene & p-Xylene	106	11.139	11.138	0.001	97	1466111	10.0	11.1	
118 o-Xylene	106	11.474	11.480	-0.006	96	704703	5.00	5.41	
119 Styrene	104	11.492	11.492	0.000	94	1184245	5.00	5.49	
120 Bromoform	173	11.651	11.651	0.000	98	200894	5.00	5.10	
121 Isopropylbenzene	105	11.791	11.791	0.000	95	1854820	5.00	6.00	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.931	11.931	0.000	96	798270	10.0	9.58	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
126 1,1,2,2-Tetrachloroethane	83	12.047	12.047	0.000	69	308223	5.00	5.31	
125 Bromobenzene	156	12.047	12.047	0.000	87	481909	5.00	5.50	
127 trans-1,4-Dichloro-2-butene	53	12.071	12.077	-0.006	89	334298	25.0	24.5	
128 1,2,3-Trichloropropane	110	12.090	12.090	0.000	81	86679	5.00	5.37	
129 N-Propylbenzene	91	12.126	12.126	0.000	98	2169442	5.00	5.76	
130 2-Chlorotoluene	126	12.199	12.205	-0.006	98	454799	5.00	5.39	
131 1,3,5-Trimethylbenzene	105	12.266	12.272	-0.006	93	1575967	5.00	5.61	
132 4-Chlorotoluene	126	12.297	12.297	0.000	96	472828	5.00	5.37	
133 tert-Butylbenzene	134	12.516	12.516	0.000	91	338701	5.00	5.01	
135 1,2,4-Trimethylbenzene	105	12.559	12.559	0.000	97	1603202	5.00	5.52	
136 sec-Butylbenzene	105	12.681	12.687	-0.006	93	2075668	5.00	5.72	
137 1,3-Dichlorobenzene	146	12.778	12.778	0.000	98	952294	5.00	5.51	
138 4-Isopropyltoluene	119	12.797	12.797	0.000	97	1796738	5.00	5.51	
* 139 1,4-Dichlorobenzene-d4	152	12.833	12.839	-0.006	93	995238	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.852	12.858	-0.006	96	971568	5.00	5.49	
141 1,2,3-Trimethylbenzene	120	12.870	12.870	0.000	98	692143	5.00	5.17	
142 Benzyl chloride	126	12.937	12.937	0.000	98	114152	5.00	4.29	
145 p-Diethylbenzene	119	13.071	13.077	-0.006	94	1129619	5.00	5.56	
143 n-Butylbenzene	92	13.096	13.095	0.001	97	889132	5.00	5.68	
144 1,2-Dichlorobenzene	146	13.120	13.120	0.000	99	867442	5.00	5.49	
148 1,2-Dibromo-3-Chloropropane	155	13.675	13.675	0.000	91	43857	5.00	4.56	
149 1,3,5-Trichlorobenzene	180	13.797	13.803	-0.006	98	706705	5.00	5.27	
150 1,2,4-Trichlorobenzene	180	14.229	14.229	0.000	94	566696	5.00	5.21	
151 Hexachlorobutadiene	225	14.315	14.315	0.000	97	309963	5.00	5.52	
152 Naphthalene	128	14.412	14.412	0.000	96	879799	5.00	5.11	
153 1,2,3-Trichlorobenzene	180	14.559	14.559	0.000	96	422648	5.00	4.98	
154 2-Methylnaphthalene	142	15.168	15.168	0.000	92	272492	5.00	3.57	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_QC_Gas826_00209

Amount Added: 5.38

Units: uL

MSV_LCS_VOC#1_00178

Amount Added: 5.38

Units: uL

MSV_HP25_ISSS_00093

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 30-Jul-2024 14:42:15

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X20.D

Injection Date: 30-Jul-2024 02:14:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-181527-A-6 MSD

Worklist Smp#: 21

Client ID: HD-COD-SW-15-0/1-0 MSD

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

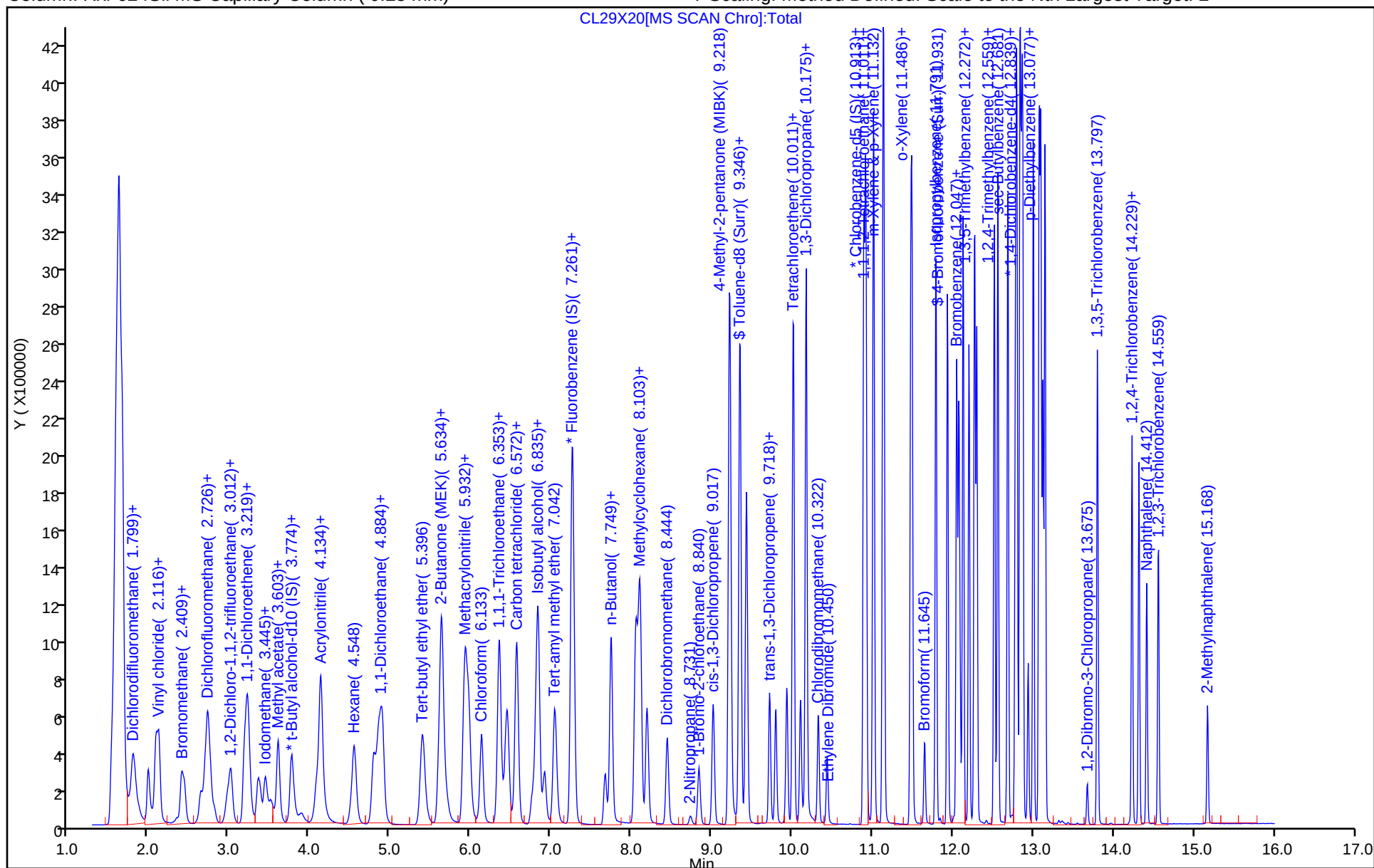
ALS Bottle#: 20

Method: MSV_10193_25mL

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\10193\20240729-120642.b\CL29X20.D
Lims ID: 410-181527-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0 MSD
Sample Type: MSD
Inject. Date: 30-Jul-2024 02:14:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120642-021
Misc. Info.: 410-181527-A-6 MSD
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jul-2024 14:42:14 Calib Date: 15-Jun-2024 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20240614-116724.b\CU14X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1692

First Level Reviewer: N9NA

Date: 30-Jul-2024 14:42:14

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.88	98.84
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.87
\$ 83 Toluene-d8 (Surr)	10.0	10.0	100.29
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.58	95.83

Eurofins Lancaster Laboratories Environment Testing, LLC

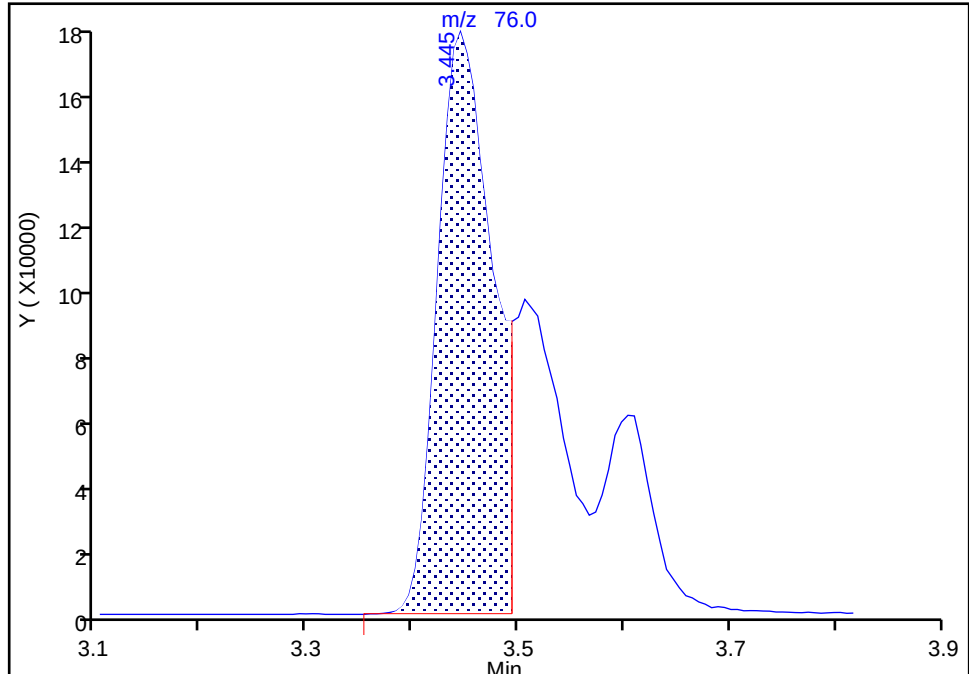
Data File: \\chromfs\Lancaster\ChromData\10193\20240729-120642.b\CL29X20.D
Injection Date: 30-Jul-2024 02:14:30 Instrument ID: 10193
Lims ID: 410-181527-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0 MSD
Operator ID: gaw91131 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

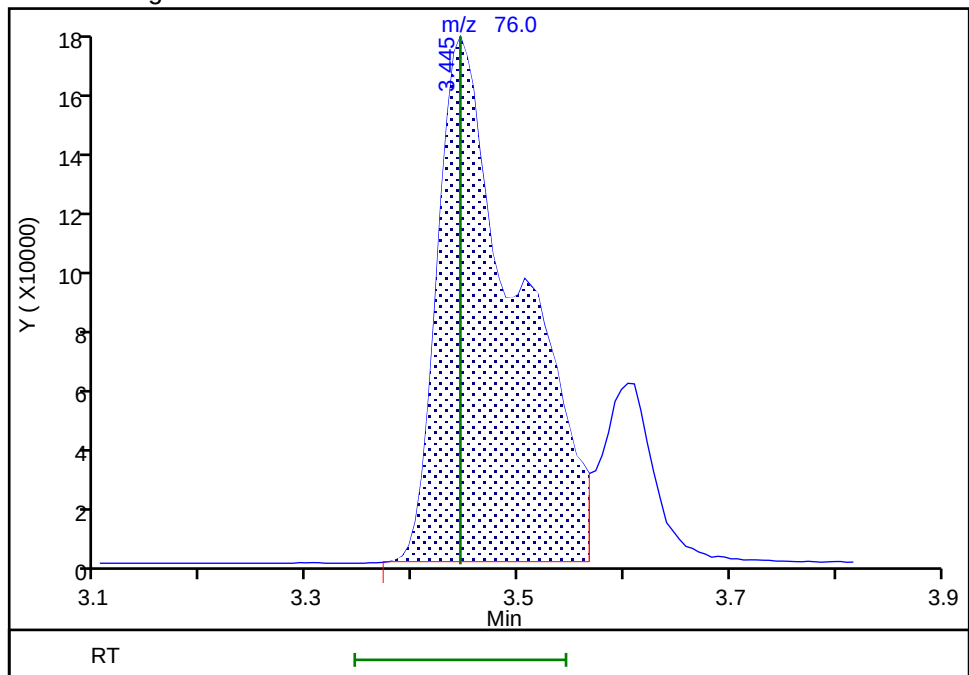
RT: 3.44
Area: 655914
Amount: 4.029720
Amount Units: ug/l

Processing Integration Results



RT: 3.44
Area: 942610
Amount: 5.791086
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 30-Jul-2024 14:41:43 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Instrument ID: 10193

Start Date: 06/14/2024 17:48

Analysis Batch Number: 517601

End Date: 06/15/2024 03:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-517601/1		06/14/2024 17:48	1	CU14T01.D	R-624Si1MS 30m 0.25 (mm)
IC 410-517601/3		06/14/2024 18:42	1	CU14X02.D	R-624Si1MS 30m 0.25 (mm)
IC 410-517601/4		06/14/2024 19:05	1	CU14X03.D	R-624Si1MS 30m 0.25 (mm)
IC 410-517601/5		06/14/2024 19:27	1	CU14X04.D	R-624Si1MS 30m 0.25 (mm)
IC 410-517601/6		06/14/2024 19:50	1	CU14X05.D	R-624Si1MS 30m 0.25 (mm)
IC 410-517601/7		06/14/2024 20:13	1	CU14X06.D	R-624Si1MS 30m 0.25 (mm)
IC 410-517601/8		06/14/2024 20:35	1	CU14X07.D	R-624Si1MS 30m 0.25 (mm)
CCV 410-517601/1008		06/14/2024 20:35	1		R-624Si1MS 30m 0.25 (mm)
IC 410-517601/9		06/14/2024 20:58	1	CU14X08.D	R-624Si1MS 30m 0.25 (mm)
ICV 410-517601/11		06/14/2024 21:43	1		R-624Si1MS 30m 0.25 (mm)
IC 410-517601/13		06/14/2024 22:28	1	CU14X12.D	R-624Si1MS 30m 0.25 (mm)
IC 410-517601/14		06/14/2024 22:51	1	CU14X13.D	R-624Si1MS 30m 0.25 (mm)
IC 410-517601/15		06/14/2024 23:14	1	CU14X14.D	R-624Si1MS 30m 0.25 (mm)
IC 410-517601/16		06/14/2024 23:36	1	CU14X15.D	R-624Si1MS 30m 0.25 (mm)
IC 410-517601/17		06/14/2024 23:59	1	CU14X16.D	R-624Si1MS 30m 0.25 (mm)
ICIS 410-517601/18		06/15/2024 00:22	1	CU14X17.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/15/2024 00:22	1		R-624Si1MS 30m 0.25 (mm)
IC 410-517601/19		06/15/2024 00:45	1	CU14X18.D	R-624Si1MS 30m 0.25 (mm)
ICV 410-517601/21		06/15/2024 01:30	1	CU14X20.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/15/2024 02:15	1		R-624Si1MS 30m 0.25 (mm)
LODV 410-517601/24		06/15/2024 02:38	1		R-624Si1MS 30m 0.25 (mm)
LODV 410-517601/25		06/15/2024 03:00	1		R-624Si1MS 30m 0.25 (mm)
LODV 410-517601/26		06/15/2024 03:23	1		R-624Si1MS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-181527-1

SDG No.:

Instrument ID: 10193

Start Date: 07/29/2024 18:56

Analysis Batch Number: 533656

End Date: 07/30/2024 05:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-533656/1		07/29/2024 18:56	1	CL29T01.D	R-624Si1MS 30m 0.25 (mm)
CCVIS 410-533656/3		07/29/2024 19:33	1	CL29X02.D	R-624Si1MS 30m 0.25 (mm)
LCS 410-533656/4		07/29/2024 19:55	1	CL29X03.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/29/2024 20:18	1		R-624Si1MS 30m 0.25 (mm)
MB 410-533656/6		07/29/2024 20:40	1	CL29X05.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/29/2024 21:02	1		R-624Si1MS 30m 0.25 (mm)
410-181527-14	HD-QC1-0/1-2	07/29/2024 21:24	1	CL29X07.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/29/2024 21:47	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/29/2024 22:09	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/29/2024 22:31	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/29/2024 22:53	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/29/2024 23:16	1		R-624Si1MS 30m 0.25 (mm)
410-181527-1	HD-COD-SW-6-0/1-0	07/29/2024 23:38	1	CL29X13.D	R-624Si1MS 30m 0.25 (mm)
410-181527-2	HD-COD-SW-7-0/1-0	07/30/2024 00:00	1	CL29X14.D	R-624Si1MS 30m 0.25 (mm)
410-181527-3	HD-COD-SW-8-0/1-0	07/30/2024 00:22	1	CL29X15.D	R-624Si1MS 30m 0.25 (mm)
410-181527-4	HD-COD-SW-9-0/1-0	07/30/2024 00:45	1	CL29X16.D	R-624Si1MS 30m 0.25 (mm)
410-181527-5	HD-COD-SW-13-0/1-0	07/30/2024 01:07	1	CL29X17.D	R-624Si1MS 30m 0.25 (mm)
410-181527-6	HD-COD-SW-15-0/1-0	07/30/2024 01:29	1	CL29X18.D	R-624Si1MS 30m 0.25 (mm)
410-181527-6 MS	HD-COD-SW-15-0/1-0 MS MS	07/30/2024 01:52	1	CL29X19.D	R-624Si1MS 30m 0.25 (mm)
410-181527-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	07/30/2024 02:14	1	CL29X20.D	R-624Si1MS 30m 0.25 (mm)
410-181527-7	HD-COD-SW-16-0/1-0	07/30/2024 02:36	1	CL29X21.D	R-624Si1MS 30m 0.25 (mm)
410-181527-9	HD-COD-SW-26-0/1-0	07/30/2024 02:58	1	CL29X22.D	R-624Si1MS 30m 0.25 (mm)
410-181527-10	HD-COD-SW-27-0/1-0	07/30/2024 03:21	1	CL29X23.D	R-624Si1MS 30m 0.25 (mm)
410-181527-11	HD-COD-SW-28-0/1-0	07/30/2024 03:43	1	CL29X24.D	R-624Si1MS 30m 0.25 (mm)
410-181527-12	HD-COD-SW-29-0/1-0	07/30/2024 04:05	1	CL29X25.D	R-624Si1MS 30m 0.25 (mm)
410-181527-8	HD-COD-SW-17-0/1-0	07/30/2024 04:28	1	CL29X26.D	R-624Si1MS 30m 0.25 (mm)
410-181527-8 DL	HD-COD-SW-17-0/1-0 DL	07/30/2024 04:50	10	CL29X27.D	R-624Si1MS 30m 0.25 (mm)
410-181527-13	HD-QC1-0/1-1	07/30/2024 05:12	1	CL29X28.D	R-624Si1MS 30m 0.25 (mm)
410-181527-13 DL	HD-QC1-0/1-1 DL	07/30/2024 05:35	10	CL29X29.D	R-624Si1MS 30m 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1

SDG No.: _____

Batch Number: 517601 Batch Start Date: 06/14/24 17:48 Batch Analyst: Campbell, Miranda EBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00008	MSV_CCV_CYC 00008	MSV_CCV_V5ACE 00037
BFB 410-517601/1		8260D			1 uL	1 uL				
IC 410-517601/3		8260D			25 mL	25 mL	2750		1.6 uL	0.2 uL
IC 410-517601/4		8260D			25 mL	25 mL	2750		4 uL	0.5 uL
IC 410-517601/5		8260D			25 mL	25 mL	2750		8 uL	1 uL
IC 410-517601/6		8260D			25 mL	25 mL	2750		8 uL	1 uL
IC 410-517601/7		8260D			25 mL	25 mL	2750		8 uL	1 uL
IC 410-517601/8		8260D			25 mL	25 mL	2750		8 uL	1 uL
IC 410-517601/9		8260D			25 mL	25 mL	2750		20 uL	2.5 uL
IC 410-517601/13		8260D			25 mL	25 mL	2750			
IC 410-517601/14		8260D			25 mL	25 mL	2750			
IC 410-517601/15		8260D			25 mL	25 mL	2750			
IC 410-517601/16		8260D			25 mL	25 mL	2750			
IC 410-517601/17		8260D			25 mL	25 mL	2750			
ICIS 410-517601/18		8260D			25 mL	25 mL	2750			
IC 410-517601/19		8260D			25 mL	25 mL	2750			
ICV 410-517601/21		8260D			25 mL	25 mL	2750	12.5 uL		

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_DME 00055	MSV_HP25_ISO 00010	MSV_HP25_ISSS 00090	MSV_LCS_ACROL 00174	MSV_LCS_EE 00009	MSV_LCS_Penta 00043
BFB 410-517601/1		8260D								
IC 410-517601/3		8260D			0.2 uL	1 uL				
IC 410-517601/4		8260D			0.5 uL	1 uL				
IC 410-517601/5		8260D			1 uL	1 uL				
IC 410-517601/6		8260D			1 uL	1 uL				
IC 410-517601/7		8260D			1 uL	1 uL				
IC 410-517601/8		8260D			1 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.

8260D

Page 1 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1

SDG No.: _____

Batch Number: 517601 Batch Start Date: 06/14/24 17:48 Batch Analyst: Campbell, Miranda EBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_DME 00055	MSV_HP25_ISO 00010	MSV_HP25_ISSS 00090	MSV_LCS_ACROL 00174	MSV_LCS_EE 00009	MSV_LCS_Penta 00043
IC 410-517601/9		8260D			2.5 uL	1 uL				
IC 410-517601/13		8260D					1 uL			
IC 410-517601/14		8260D					1 uL			
IC 410-517601/15		8260D					1 uL			
IC 410-517601/16		8260D					1 uL			
IC 410-517601/17		8260D					1 uL			
ICIS 410-517601/18		8260D					1 uL			
IC 410-517601/19		8260D					1 uL			
ICV 410-517601/21		8260D					1 uL	12.5 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_VOC#1 00171	MSV_LL_#1_826 00133	MSV_LL_#2_826 00140	MSV_LL_GAS826 00214	MSV_QC_Gas826 00201	MSV_V_BFB 00017
BFB 410-517601/1		8260D								1 uL
IC 410-517601/3		8260D								
IC 410-517601/4		8260D								
IC 410-517601/5		8260D								
IC 410-517601/6		8260D								
IC 410-517601/7		8260D								
IC 410-517601/8		8260D								
IC 410-517601/9		8260D								
IC 410-517601/13		8260D				2 uL	2 uL	2 uL		
IC 410-517601/14		8260D				2 uL	2 uL	2 uL		
IC 410-517601/15		8260D				2 uL	2 uL	2 uL		
IC 410-517601/16		8260D				2 uL	2 uL	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

Page 2 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1

SDG No.: _____

Batch Number: 517601 Batch Start Date: 06/14/24 17:48 Batch Analyst: Campbell, Miranda EBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_VOC#1 00171	MSV_LL_#1_826 00133	MSV_LL_#2_826 00140	MSV_LL_GAS826 00214	MSV_QC_Gas826 00201	MSV_V_BFB 00017
IC 410-517601/17		8260D				5 uL	5 uL	5 uL		
ICIS 410-517601/18		8260D				10 uL	10 uL	10 uL		
IC 410-517601/19		8260D				25 uL	25 uL	25 uL		
ICV 410-517601/21		8260D			12.5 uL				12.5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_SMRV4 00071					
BFB 410-517601/1		8260D								
IC 410-517601/3		8260D			1 uL					
IC 410-517601/4		8260D			2.5 uL					
IC 410-517601/5		8260D			5 uL					
IC 410-517601/6		8260D			5 uL					
IC 410-517601/7		8260D			5 uL					
IC 410-517601/8		8260D			5 uL					
IC 410-517601/9		8260D			12.5 uL					
IC 410-517601/13		8260D								
IC 410-517601/14		8260D								
IC 410-517601/15		8260D								
IC 410-517601/16		8260D								
IC 410-517601/17		8260D								
ICIS 410-517601/18		8260D								
IC 410-517601/19		8260D								
ICV 410-517601/21		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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1

SDG No.: _____

Batch Number: 517601 Batch Start Date: 06/14/24 17:48 Batch Analyst: Campbell, Miranda EBatch Method: 8260D Batch End Date: _____

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.

8260D

Page 4 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1

SDG No.: _____

Batch Number: 533656 Batch Start Date: 07/29/24 18:56 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 410-533656/1		8260D			1 uL	1 uL				
CCVIS 410-533656/3		8260D			25 mL	25 mL				2759
LCS 410-533656/4		8260D			25 mL	25 mL				2759
MB 410-533656/6		8260D			25 mL	25 mL				2759
410-181527-A-14	HD-QC1-0/1-2	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-181527-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-181527-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-181527-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-181527-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-181527-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-181527-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-181527-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-181527-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-181527-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-181527-A-9	HD-COD-SW-26-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-181527-A-10	HD-COD-SW-27-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-181527-A-11	HD-COD-SW-28-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-181527-A-12	HD-COD-SW-29-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-181527-A-8	HD-COD-SW-17-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-181527-B-8	HD-COD-SW-17-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	2759
410-181527-A-13	HD-QC1-0/1-1	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-181527-B-13	HD-QC1-0/1-1	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	2759

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

Page 1 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1

SDG No.: _____

Batch Number: 533656 Batch Start Date: 07/29/24 18:56 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_HP25_ISSS 00093	MSV_LCS_VOC#1 00178	MSV_LL_#1_826 00138	MSV_LL_#2_826 00146	MSV_LL_GAS826 00222	MSV_QC_Gas826 00209
BFB 410-533656/1		8260D								
CCVIS 410-533656/3		8260D			1 uL		20 uL	20 uL	20 uL	
LCS 410-533656/4		8260D			1 uL	12.5 uL				12.5 uL
MB 410-533656/6		8260D			1 uL					
410-181527-A-14	HD-QC1-0/1-2	8260D	Water	T	1 uL					
410-181527-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T	1 uL					
410-181527-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T	1 uL					
410-181527-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T	1 uL					
410-181527-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T	1 uL					
410-181527-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T	1 uL					
410-181527-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T	1 uL					
410-181527-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T	1 uL	5.38 uL				5.38 uL
410-181527-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T	1 uL	5.38 uL				5.38 uL
410-181527-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T	1 uL					
410-181527-A-9	HD-COD-SW-26-0/1-0	8260D	Water	T	1 uL					
410-181527-A-10	HD-COD-SW-27-0/1-0	8260D	Water	T	1 uL					
410-181527-A-11	HD-COD-SW-28-0/1-0	8260D	Water	T	1 uL					
410-181527-A-12	HD-COD-SW-29-0/1-0	8260D	Water	T	1 uL					
410-181527-A-8	HD-COD-SW-17-0/1-0	8260D	Water	T	1 uL					
410-181527-B-8	HD-COD-SW-17-0/1-0	8260D	Water	T	1 uL					
410-181527-A-13	HD-QC1-0/1-1	8260D	Water	T	1 uL					
410-181527-B-13	HD-QC1-0/1-1	8260D	Water	T	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.

8260D

Page 2 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1

SDG No.: _____

Batch Number: 533656 Batch Start Date: 07/29/24 18:56 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_BFB 00017				
BFB 410-533656/1		8260D			1 uL				
CCVIS 410-533656/3		8260D							
LCS 410-533656/4		8260D							
MB 410-533656/6		8260D							
410-181527-A-14	HD-QC1-0/1-2	8260D	Water	T					
410-181527-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T					
410-181527-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T					
410-181527-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T					
410-181527-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T					
410-181527-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T					
410-181527-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T					
410-181527-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T					
410-181527-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T					
410-181527-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T					
410-181527-A-9	HD-COD-SW-26-0/1-0	8260D	Water	T					
410-181527-A-10	HD-COD-SW-27-0/1-0	8260D	Water	T					
410-181527-A-11	HD-COD-SW-28-0/1-0	8260D	Water	T					
410-181527-A-12	HD-COD-SW-29-0/1-0	8260D	Water	T					
410-181527-A-8	HD-COD-SW-17-0/1-0	8260D	Water	T					
410-181527-B-8	HD-COD-SW-17-0/1-0	8260D	Water	T					
410-181527-A-13	HD-QC1-0/1-1	8260D	Water	T					
410-181527-B-13	HD-QC1-0/1-1	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

Page 3 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-181527-1

SDG No.: _____

Batch Number: 533656 Batch Start Date: 07/29/24 18:56 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

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



410-181527 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/ #: FYNOP Monthly Surface Water				Site ID #: FYNOP, York PA				Preservation Codes												SF #: _____			
Project Manager: Chris O'Neil				P.O. #: 10012.52				H												SCR #: _____			
Sampler: Casey Littlefield / Jason Fritz				PWSID #: N/A				Aqueous VOCs via 8260D (low level - 25 ml purge)												Preservation Codes			
Phone #: (717) 901-8176 / (717) 756-1246				Quote #:																H = HCl		T = Thiosulfate	
State where samples were collected: York, PA				For Compliance: Yes ☐ No ☒				Soil ☐ Sediment ☐ Tissue ☐ Potable ☐ Ground ☐ Surface ☒ Water ☐ NPDES ☐ Other: _____												N = HNO ₃		B = NaOH	
																				S = H ₂ SO ₄		P = H ₃ PO ₄	
																				O = Other			
Sample Identification				Collection		Grab	Composite													Remarks			
				Date	Time																		
HD-COD-SW-6-0/1-0				7/25/24	1030	X														on - ice			
HD-COD-SW-7-0/1-0					1115	X																	
HD-COD-SW-8-0/1-0					0910	X																	
HD-COD-SW-9-0/1-0					1250	X																	
HD-COD-SW-13-0/1-0					0930	X																	
HD-COD-SW-15-0/1-0					1140	X																	
HD-COD-SW-15-0/1-0 MS					1140	X																	
HD-COD-SW-15-0/1-0 MSD					1140	X																	
HD-COD-SW-16-0/1-0					0950	X																	
HD-COD-SW-17-0/1-0					1005	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.)								[Signature]				7/25/24		1005		[Signature] ELLE				7/26/24		1005	
Date results are needed:								Relinquished by:				Date		Time		Received by:				Date		Time	
Rush results requested by (please check):				E-Mail ☒ Phone ☐				[Signature] ELLE				7/26/24		1110									
E-mail Address: concil@groundwatersciences.com												Date		Time		Received by:				Date		Time	
Phone: 717 901-8176												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 ☐								Date		Time		Received by:				Date		Time	
Type III (Reduced non-CLP) ☐				CT RCP ☐								Date		Time		Received by:				Date		Time	
Type VI (Raw Data Only) ☐				TX TRRP-13 ☐								Date		Time		Received by:				Date		Time	
NJ DKQP ☐				NYSDEC Category ☐ A or ☐ B								Date		Time		Received by:				Date		Time	
EDD Required? Yes ☒ No ☐				CLP Like Deliverables, Project Specific Analyte				Relinquished by Commercial Carrier:								Temperature upon receipt				R: 3.1 C: 3.2 °C			
If yes, format: _____				List				UPS _____ FedEx _____ Other ☒															

page 2.62

Acct. #	Group #	Sample #

07/31/2024

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-181527-1

Login Number: 181527

List Number: 1

Creator: McBeth, Jessica

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
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	

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-181527-1

Login Number: 181527

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 2

Creator: McBeth, Jessica

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		