



ANALYTICAL REPORT

PREPARED FOR

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Generated 04/02/2025

JOB DESCRIPTION

fYNOP Monthly Surface Water

JOB NUMBER

410-214590-1

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
04/02/2025

Authorized for release by
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Definitions/Glossary

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

Job ID: 410-214590-1

Qualifiers

GC/MS VOA

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

Glossary

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

Job Narrative
410-214590-1

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 3/28/2025 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

GC/MS VOA

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-624273 recovered above the upper control limit for Bromochloromethane. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D_LL: The method blank for 410-624273 contained Carbon disulfide above the method detection limit (MDL).

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: 410-214590-1

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

Lab Sample ID: 410-214590-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.47	J cn	1.0	0.10	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-214590-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.12	J	0.50	0.090	ug/L	1		8260D	Total/NA
Trichloroethene	0.19	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-214590-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.37	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.1		0.50	0.20	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-214590-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.4	J	5.0	1.5	ug/L	1		8260D	Total/NA
Carbon disulfide	0.45	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.21	J	0.50	0.090	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.28	J	0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.24	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-13-0/1-0

Lab Sample ID: 410-214590-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.12	J	0.50	0.080	ug/L	1		8260D	Total/NA
Carbon disulfide	0.38	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.7		0.50	0.20	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: 410-214590-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.37	J	0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.11	J	0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.23	J	0.50	0.10	ug/L	1		8260D	Total/NA
Carbon disulfide	0.25	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.20	J FH	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.4		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	5.1		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	1.7		0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-214590-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.35	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.6		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.25	J	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: 410-214590-1

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

Lab Sample ID: 410-214590-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	13		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.9		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.92		0.50	0.10	ug/L	1		8260D	Total/NA
Carbon disulfide	0.21	J cn	1.0	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	2.8		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	6.0		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	150		10	4.0	ug/L	20		8260D	Total/NA

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

Lab Sample ID: 410-214590-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.25	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.62		0.50	0.090	ug/L	1		8260D	Total/NA
Tetrachloroethene	2.9		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: 410-214590-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.42	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.16	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.097	J	0.50	0.080	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-28-0/1-0

Lab Sample ID: 410-214590-11

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
Carbon disulfide	0.31	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.11	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.086	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.22	J	0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.24	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.13	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-214590-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.28	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.10	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.14	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.74		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-QC1-0/1-1

Lab Sample ID: 410-214590-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	13		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	0.78		0.50	0.10	ug/L	1		8260D	Total/NA
Carbon disulfide	0.21	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.19	J	0.50	0.090	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: 410-214590-1

Client Sample ID: HD-QC1-0/1-1 (Continued) Lab Sample ID: 410-214590-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.7		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	5.4		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	180		10	4.0	ug/L	20		8260D	Total/NA

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-214590-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.36	J cn	1.0	0.10	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-1

Date Collected: 03/27/25 10:40

Matrix: Water

Date Received: 03/28/25 16:00

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			04/01/25 02:41	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 02:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			04/01/25 02:41	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 02:41	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			04/01/25 02:41	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 02:41	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			04/01/25 02:41	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			04/01/25 02:41	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			04/01/25 02:41	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			04/01/25 02:41	1
2-Hexanone	ND		5.0	2.0	ug/L			04/01/25 02:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			04/01/25 02:41	1
Acetone	ND		5.0	1.5	ug/L			04/01/25 02:41	1
Benzene	ND		0.50	0.10	ug/L			04/01/25 02:41	1
Bromochloromethane	ND	^c cn	0.50	0.080	ug/L			04/01/25 02:41	1
Bromodichloromethane	ND		0.50	0.080	ug/L			04/01/25 02:41	1
Bromoform	ND		1.0	0.30	ug/L			04/01/25 02:41	1
Bromomethane	ND		0.50	0.10	ug/L			04/01/25 02:41	1
Carbon disulfide	0.47	J cn	1.0	0.10	ug/L			04/01/25 02:41	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			04/01/25 02:41	1
Chlorobenzene	ND		0.50	0.070	ug/L			04/01/25 02:41	1
Chloroethane	ND		0.50	0.10	ug/L			04/01/25 02:41	1
Chloroform	ND		0.50	0.090	ug/L			04/01/25 02:41	1
Chloromethane	ND		0.50	0.10	ug/L			04/01/25 02:41	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			04/01/25 02:41	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/01/25 02:41	1
Dibromochloromethane	ND		0.50	0.080	ug/L			04/01/25 02:41	1
Ethylbenzene	ND		0.50	0.080	ug/L			04/01/25 02:41	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			04/01/25 02:41	1
Methylene Chloride	ND		0.50	0.20	ug/L			04/01/25 02:41	1
Styrene	ND		0.50	0.070	ug/L			04/01/25 02:41	1
Tetrachloroethene	ND		0.50	0.20	ug/L			04/01/25 02:41	1
Toluene	ND		0.50	0.080	ug/L			04/01/25 02:41	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 02:41	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/01/25 02:41	1
Trichloroethene	ND		0.50	0.080	ug/L			04/01/25 02:41	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/01/25 02:41	1
Xylenes, Total	ND		1.0	0.070	ug/L			04/01/25 02:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120					04/01/25 02:41	1
4-Bromofluorobenzene (Surr)	96		80 - 120					04/01/25 02:41	1
Dibromofluoromethane (Surr)	105		80 - 120					04/01/25 02:41	1
Toluene-d8 (Surr)	92		80 - 120					04/01/25 02:41	1

Client Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-2

Date Collected: 03/27/25 11:18

Matrix: Water

Date Received: 03/28/25 16:00

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			04/01/25 03:03	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 03:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			04/01/25 03:03	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 03:03	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			04/01/25 03:03	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 03:03	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			04/01/25 03:03	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			04/01/25 03:03	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			04/01/25 03:03	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			04/01/25 03:03	1
2-Hexanone	ND		5.0	2.0	ug/L			04/01/25 03:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			04/01/25 03:03	1
Acetone	ND		5.0	1.5	ug/L			04/01/25 03:03	1
Benzene	ND		0.50	0.10	ug/L			04/01/25 03:03	1
Bromochloromethane	ND	^c cn	0.50	0.080	ug/L			04/01/25 03:03	1
Bromodichloromethane	ND		0.50	0.080	ug/L			04/01/25 03:03	1
Bromoform	ND		1.0	0.30	ug/L			04/01/25 03:03	1
Bromomethane	ND		0.50	0.10	ug/L			04/01/25 03:03	1
Carbon disulfide	ND		1.0	0.10	ug/L			04/01/25 03:03	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			04/01/25 03:03	1
Chlorobenzene	ND		0.50	0.070	ug/L			04/01/25 03:03	1
Chloroethane	ND		0.50	0.10	ug/L			04/01/25 03:03	1
Chloroform	0.12	J	0.50	0.090	ug/L			04/01/25 03:03	1
Chloromethane	ND		0.50	0.10	ug/L			04/01/25 03:03	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			04/01/25 03:03	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/01/25 03:03	1
Dibromochloromethane	ND		0.50	0.080	ug/L			04/01/25 03:03	1
Ethylbenzene	ND		0.50	0.080	ug/L			04/01/25 03:03	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			04/01/25 03:03	1
Methylene Chloride	ND		0.50	0.20	ug/L			04/01/25 03:03	1
Styrene	ND		0.50	0.070	ug/L			04/01/25 03:03	1
Tetrachloroethene	ND		0.50	0.20	ug/L			04/01/25 03:03	1
Toluene	ND		0.50	0.080	ug/L			04/01/25 03:03	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 03:03	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/01/25 03:03	1
Trichloroethene	0.19	J	0.50	0.080	ug/L			04/01/25 03:03	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/01/25 03:03	1
Xylenes, Total	ND		1.0	0.070	ug/L			04/01/25 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		04/01/25 03:03	1
4-Bromofluorobenzene (Surr)	97		80 - 120		04/01/25 03:03	1
Dibromofluoromethane (Surr)	107		80 - 120		04/01/25 03:03	1
Toluene-d8 (Surr)	94		80 - 120		04/01/25 03:03	1

Client Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-3

Date Collected: 03/27/25 08:42

Matrix: Water

Date Received: 03/28/25 16:00

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			04/01/25 03:26	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 03:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			04/01/25 03:26	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 03:26	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			04/01/25 03:26	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 03:26	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			04/01/25 03:26	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			04/01/25 03:26	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			04/01/25 03:26	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			04/01/25 03:26	1
2-Hexanone	ND		5.0	2.0	ug/L			04/01/25 03:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			04/01/25 03:26	1
Acetone	ND		5.0	1.5	ug/L			04/01/25 03:26	1
Benzene	ND		0.50	0.10	ug/L			04/01/25 03:26	1
Bromochloromethane	ND	^c cn	0.50	0.080	ug/L			04/01/25 03:26	1
Bromodichloromethane	ND		0.50	0.080	ug/L			04/01/25 03:26	1
Bromoform	ND		1.0	0.30	ug/L			04/01/25 03:26	1
Bromomethane	ND		0.50	0.10	ug/L			04/01/25 03:26	1
Carbon disulfide	0.37	J cn	1.0	0.10	ug/L			04/01/25 03:26	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			04/01/25 03:26	1
Chlorobenzene	ND		0.50	0.070	ug/L			04/01/25 03:26	1
Chloroethane	ND		0.50	0.10	ug/L			04/01/25 03:26	1
Chloroform	ND		0.50	0.090	ug/L			04/01/25 03:26	1
Chloromethane	ND		0.50	0.10	ug/L			04/01/25 03:26	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			04/01/25 03:26	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/01/25 03:26	1
Dibromochloromethane	ND		0.50	0.080	ug/L			04/01/25 03:26	1
Ethylbenzene	ND		0.50	0.080	ug/L			04/01/25 03:26	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			04/01/25 03:26	1
Methylene Chloride	ND		0.50	0.20	ug/L			04/01/25 03:26	1
Styrene	ND		0.50	0.070	ug/L			04/01/25 03:26	1
Tetrachloroethene	1.1		0.50	0.20	ug/L			04/01/25 03:26	1
Toluene	ND		0.50	0.080	ug/L			04/01/25 03:26	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 03:26	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/01/25 03:26	1
Trichloroethene	ND		0.50	0.080	ug/L			04/01/25 03:26	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/01/25 03:26	1
Xylenes, Total	ND		1.0	0.070	ug/L			04/01/25 03:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		04/01/25 03:26	1
4-Bromofluorobenzene (Surr)	95		80 - 120		04/01/25 03:26	1
Dibromofluoromethane (Surr)	107		80 - 120		04/01/25 03:26	1
Toluene-d8 (Surr)	94		80 - 120		04/01/25 03:26	1

Client Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-4

Date Collected: 03/27/25 12:30

Matrix: Water

Date Received: 03/28/25 16:00

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			04/01/25 03:48	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 03:48	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			04/01/25 03:48	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 03:48	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			04/01/25 03:48	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 03:48	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			04/01/25 03:48	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			04/01/25 03:48	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			04/01/25 03:48	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			04/01/25 03:48	1
2-Hexanone	ND		5.0	2.0	ug/L			04/01/25 03:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			04/01/25 03:48	1
Acetone	2.4	J	5.0	1.5	ug/L			04/01/25 03:48	1
Benzene	ND		0.50	0.10	ug/L			04/01/25 03:48	1
Bromochloromethane	ND	^c cn	0.50	0.080	ug/L			04/01/25 03:48	1
Bromodichloromethane	ND		0.50	0.080	ug/L			04/01/25 03:48	1
Bromoform	ND		1.0	0.30	ug/L			04/01/25 03:48	1
Bromomethane	ND		0.50	0.10	ug/L			04/01/25 03:48	1
Carbon disulfide	0.45	J cn	1.0	0.10	ug/L			04/01/25 03:48	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			04/01/25 03:48	1
Chlorobenzene	ND		0.50	0.070	ug/L			04/01/25 03:48	1
Chloroethane	ND		0.50	0.10	ug/L			04/01/25 03:48	1
Chloroform	0.21	J	0.50	0.090	ug/L			04/01/25 03:48	1
Chloromethane	ND		0.50	0.10	ug/L			04/01/25 03:48	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			04/01/25 03:48	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/01/25 03:48	1
Dibromochloromethane	ND		0.50	0.080	ug/L			04/01/25 03:48	1
Ethylbenzene	ND		0.50	0.080	ug/L			04/01/25 03:48	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			04/01/25 03:48	1
Methylene Chloride	ND		0.50	0.20	ug/L			04/01/25 03:48	1
Styrene	ND		0.50	0.070	ug/L			04/01/25 03:48	1
Tetrachloroethene	0.28	J	0.50	0.20	ug/L			04/01/25 03:48	1
Toluene	0.24	J	0.50	0.080	ug/L			04/01/25 03:48	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 03:48	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/01/25 03:48	1
Trichloroethene	0.15	J	0.50	0.080	ug/L			04/01/25 03:48	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/01/25 03:48	1
Xylenes, Total	ND		1.0	0.070	ug/L			04/01/25 03:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		04/01/25 03:48	1
4-Bromofluorobenzene (Surr)	94		80 - 120		04/01/25 03:48	1
Dibromofluoromethane (Surr)	109		80 - 120		04/01/25 03:48	1
Toluene-d8 (Surr)	93		80 - 120		04/01/25 03:48	1

Client Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-5

Date Collected: 03/27/25 08:55

Matrix: Water

Date Received: 03/28/25 16:00

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			04/01/25 04:10	1
1,1,1-Trichloroethane	0.12	J	0.50	0.080	ug/L			04/01/25 04:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			04/01/25 04:10	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 04:10	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			04/01/25 04:10	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 04:10	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			04/01/25 04:10	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			04/01/25 04:10	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			04/01/25 04:10	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			04/01/25 04:10	1
2-Hexanone	ND		5.0	2.0	ug/L			04/01/25 04:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			04/01/25 04:10	1
Acetone	ND		5.0	1.5	ug/L			04/01/25 04:10	1
Benzene	ND		0.50	0.10	ug/L			04/01/25 04:10	1
Bromochloromethane	ND	^c cn	0.50	0.080	ug/L			04/01/25 04:10	1
Bromodichloromethane	ND		0.50	0.080	ug/L			04/01/25 04:10	1
Bromoform	ND		1.0	0.30	ug/L			04/01/25 04:10	1
Bromomethane	ND		0.50	0.10	ug/L			04/01/25 04:10	1
Carbon disulfide	0.38	J cn	1.0	0.10	ug/L			04/01/25 04:10	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			04/01/25 04:10	1
Chlorobenzene	ND		0.50	0.070	ug/L			04/01/25 04:10	1
Chloroethane	ND		0.50	0.10	ug/L			04/01/25 04:10	1
Chloroform	ND		0.50	0.090	ug/L			04/01/25 04:10	1
Chloromethane	ND		0.50	0.10	ug/L			04/01/25 04:10	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			04/01/25 04:10	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/01/25 04:10	1
Dibromochloromethane	ND		0.50	0.080	ug/L			04/01/25 04:10	1
Ethylbenzene	ND		0.50	0.080	ug/L			04/01/25 04:10	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			04/01/25 04:10	1
Methylene Chloride	ND		0.50	0.20	ug/L			04/01/25 04:10	1
Styrene	ND		0.50	0.070	ug/L			04/01/25 04:10	1
Tetrachloroethene	1.7		0.50	0.20	ug/L			04/01/25 04:10	1
Toluene	ND		0.50	0.080	ug/L			04/01/25 04:10	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 04:10	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/01/25 04:10	1
Trichloroethene	0.25	J	0.50	0.080	ug/L			04/01/25 04:10	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/01/25 04:10	1
Xylenes, Total	ND		1.0	0.070	ug/L			04/01/25 04:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		04/01/25 04:10	1
4-Bromofluorobenzene (Surr)	94		80 - 120		04/01/25 04:10	1
Dibromofluoromethane (Surr)	107		80 - 120		04/01/25 04:10	1
Toluene-d8 (Surr)	91		80 - 120		04/01/25 04:10	1

Client Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-6

Date Collected: 03/27/25 11:37

Matrix: Water

Date Received: 03/28/25 16:00

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			04/01/25 04:32	1
1,1,1-Trichloroethane	0.37	J	0.50	0.080	ug/L			04/01/25 04:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			04/01/25 04:32	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 04:32	1
1,1-Dichloroethane	0.11	J	0.50	0.10	ug/L			04/01/25 04:32	1
1,1-Dichloroethene	0.23	J	0.50	0.10	ug/L			04/01/25 04:32	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			04/01/25 04:32	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			04/01/25 04:32	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			04/01/25 04:32	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			04/01/25 04:32	1
2-Hexanone	ND		5.0	2.0	ug/L			04/01/25 04:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			04/01/25 04:32	1
Acetone	ND		5.0	1.5	ug/L			04/01/25 04:32	1
Benzene	ND		0.50	0.10	ug/L			04/01/25 04:32	1
Bromochloromethane	ND	^c cn	0.50	0.080	ug/L			04/01/25 04:32	1
Bromodichloromethane	ND		0.50	0.080	ug/L			04/01/25 04:32	1
Bromoform	ND		1.0	0.30	ug/L			04/01/25 04:32	1
Bromomethane	ND		0.50	0.10	ug/L			04/01/25 04:32	1
Carbon disulfide	0.25	J cn	1.0	0.10	ug/L			04/01/25 04:32	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			04/01/25 04:32	1
Chlorobenzene	ND		0.50	0.070	ug/L			04/01/25 04:32	1
Chloroethane	ND		0.50	0.10	ug/L			04/01/25 04:32	1
Chloroform	0.20	J FH	0.50	0.090	ug/L			04/01/25 04:32	1
Chloromethane	ND		0.50	0.10	ug/L			04/01/25 04:32	1
cis-1,2-Dichloroethene	1.4		0.50	0.080	ug/L			04/01/25 04:32	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/01/25 04:32	1
Dibromochloromethane	ND		0.50	0.080	ug/L			04/01/25 04:32	1
Ethylbenzene	ND		0.50	0.080	ug/L			04/01/25 04:32	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			04/01/25 04:32	1
Methylene Chloride	ND		0.50	0.20	ug/L			04/01/25 04:32	1
Styrene	ND		0.50	0.070	ug/L			04/01/25 04:32	1
Tetrachloroethene	5.1		0.50	0.20	ug/L			04/01/25 04:32	1
Toluene	ND		0.50	0.080	ug/L			04/01/25 04:32	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 04:32	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/01/25 04:32	1
Trichloroethene	1.7		0.50	0.080	ug/L			04/01/25 04:32	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/01/25 04:32	1
Xylenes, Total	ND		1.0	0.070	ug/L			04/01/25 04:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		04/01/25 04:32	1
4-Bromofluorobenzene (Surr)	92		80 - 120		04/01/25 04:32	1
Dibromofluoromethane (Surr)	104		80 - 120		04/01/25 04:32	1
Toluene-d8 (Surr)	91		80 - 120		04/01/25 04:32	1

Client Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-7

Date Collected: 03/27/25 09:15

Matrix: Water

Date Received: 03/28/25 16:00

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			04/01/25 05:38	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 05:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			04/01/25 05:38	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 05:38	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			04/01/25 05:38	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 05:38	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			04/01/25 05:38	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			04/01/25 05:38	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			04/01/25 05:38	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			04/01/25 05:38	1
2-Hexanone	ND		5.0	2.0	ug/L			04/01/25 05:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			04/01/25 05:38	1
Acetone	ND		5.0	1.5	ug/L			04/01/25 05:38	1
Benzene	ND		0.50	0.10	ug/L			04/01/25 05:38	1
Bromochloromethane	ND	^c cn	0.50	0.080	ug/L			04/01/25 05:38	1
Bromodichloromethane	ND		0.50	0.080	ug/L			04/01/25 05:38	1
Bromoform	ND		1.0	0.30	ug/L			04/01/25 05:38	1
Bromomethane	ND		0.50	0.10	ug/L			04/01/25 05:38	1
Carbon disulfide	0.35	J cn	1.0	0.10	ug/L			04/01/25 05:38	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			04/01/25 05:38	1
Chlorobenzene	ND		0.50	0.070	ug/L			04/01/25 05:38	1
Chloroethane	ND		0.50	0.10	ug/L			04/01/25 05:38	1
Chloroform	ND		0.50	0.090	ug/L			04/01/25 05:38	1
Chloromethane	ND		0.50	0.10	ug/L			04/01/25 05:38	1
cis-1,2-Dichloroethene	0.16	J	0.50	0.080	ug/L			04/01/25 05:38	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/01/25 05:38	1
Dibromochloromethane	ND		0.50	0.080	ug/L			04/01/25 05:38	1
Ethylbenzene	ND		0.50	0.080	ug/L			04/01/25 05:38	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			04/01/25 05:38	1
Methylene Chloride	ND		0.50	0.20	ug/L			04/01/25 05:38	1
Styrene	ND		0.50	0.070	ug/L			04/01/25 05:38	1
Tetrachloroethene	1.6		0.50	0.20	ug/L			04/01/25 05:38	1
Toluene	ND		0.50	0.080	ug/L			04/01/25 05:38	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 05:38	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/01/25 05:38	1
Trichloroethene	0.25	J	0.50	0.080	ug/L			04/01/25 05:38	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/01/25 05:38	1
Xylenes, Total	ND		1.0	0.070	ug/L			04/01/25 05:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		04/01/25 05:38	1
4-Bromofluorobenzene (Surr)	94		80 - 120		04/01/25 05:38	1
Dibromofluoromethane (Surr)	106		80 - 120		04/01/25 05:38	1
Toluene-d8 (Surr)	94		80 - 120		04/01/25 05:38	1

Client Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-8

Date Collected: 03/27/25 09:22

Matrix: Water

Date Received: 03/28/25 16:00

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			04/01/25 07:28	1
1,1,1-Trichloroethane	13		0.50	0.080	ug/L			04/01/25 07:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			04/01/25 07:28	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 07:28	1
1,1-Dichloroethane	1.9		0.50	0.10	ug/L			04/01/25 07:28	1
1,1-Dichloroethene	0.92		0.50	0.10	ug/L			04/01/25 07:28	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			04/01/25 07:28	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			04/01/25 07:28	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			04/01/25 07:28	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			04/01/25 07:28	1
2-Hexanone	ND		5.0	2.0	ug/L			04/01/25 07:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			04/01/25 07:28	1
Acetone	ND		5.0	1.5	ug/L			04/01/25 07:28	1
Benzene	ND		0.50	0.10	ug/L			04/01/25 07:28	1
Bromochloromethane	ND	^c cn	0.50	0.080	ug/L			04/01/25 07:28	1
Bromodichloromethane	ND		0.50	0.080	ug/L			04/01/25 07:28	1
Bromoform	ND		1.0	0.30	ug/L			04/01/25 07:28	1
Bromomethane	ND		0.50	0.10	ug/L			04/01/25 07:28	1
Carbon disulfide	0.21	J cn	1.0	0.10	ug/L			04/01/25 07:28	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			04/01/25 07:28	1
Chlorobenzene	ND		0.50	0.070	ug/L			04/01/25 07:28	1
Chloroethane	ND		0.50	0.10	ug/L			04/01/25 07:28	1
Chloroform	0.18	J	0.50	0.090	ug/L			04/01/25 07:28	1
Chloromethane	ND		0.50	0.10	ug/L			04/01/25 07:28	1
cis-1,2-Dichloroethene	2.8		0.50	0.080	ug/L			04/01/25 07:28	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/01/25 07:28	1
Dibromochloromethane	ND		0.50	0.080	ug/L			04/01/25 07:28	1
Ethylbenzene	ND		0.50	0.080	ug/L			04/01/25 07:28	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			04/01/25 07:28	1
Methylene Chloride	ND		0.50	0.20	ug/L			04/01/25 07:28	1
Styrene	ND		0.50	0.070	ug/L			04/01/25 07:28	1
Toluene	ND		0.50	0.080	ug/L			04/01/25 07:28	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 07:28	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/01/25 07:28	1
Trichloroethene	6.0		0.50	0.080	ug/L			04/01/25 07:28	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/01/25 07:28	1
Xylenes, Total	ND		1.0	0.070	ug/L			04/01/25 07:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		04/01/25 07:28	1
4-Bromofluorobenzene (Surr)	94		80 - 120		04/01/25 07:28	1
Dibromofluoromethane (Surr)	100		80 - 120		04/01/25 07:28	1
Toluene-d8 (Surr)	90		80 - 120		04/01/25 07:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	150		10	4.0	ug/L			04/01/25 07:50	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		04/01/25 07:50	20

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-8

Date Collected: 03/27/25 09:22

Matrix: Water

Date Received: 03/28/25 16:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		04/01/25 07:50	20
Dibromofluoromethane (Surr)	108		80 - 120		04/01/25 07:50	20
Toluene-d8 (Surr)	92		80 - 120		04/01/25 07:50	20

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

Lab Sample ID: 410-214590-9

Date Collected: 03/27/25 11:00

Matrix: Water

Date Received: 03/28/25 16:00

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			04/01/25 06:00	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 06:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			04/01/25 06:00	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 06:00	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			04/01/25 06:00	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 06:00	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			04/01/25 06:00	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			04/01/25 06:00	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			04/01/25 06:00	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			04/01/25 06:00	1
2-Hexanone	ND		5.0	2.0	ug/L			04/01/25 06:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			04/01/25 06:00	1
Acetone	ND		5.0	1.5	ug/L			04/01/25 06:00	1
Benzene	ND		0.50	0.10	ug/L			04/01/25 06:00	1
Bromochloromethane	ND	^c cn	0.50	0.080	ug/L			04/01/25 06:00	1
Bromodichloromethane	ND		0.50	0.080	ug/L			04/01/25 06:00	1
Bromoform	ND		1.0	0.30	ug/L			04/01/25 06:00	1
Bromomethane	ND		0.50	0.10	ug/L			04/01/25 06:00	1
Carbon disulfide	0.25	J cn	1.0	0.10	ug/L			04/01/25 06:00	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			04/01/25 06:00	1
Chlorobenzene	ND		0.50	0.070	ug/L			04/01/25 06:00	1
Chloroethane	ND		0.50	0.10	ug/L			04/01/25 06:00	1
Chloroform	0.62		0.50	0.090	ug/L			04/01/25 06:00	1
Chloromethane	ND		0.50	0.10	ug/L			04/01/25 06:00	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			04/01/25 06:00	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/01/25 06:00	1
Dibromochloromethane	ND		0.50	0.080	ug/L			04/01/25 06:00	1
Ethylbenzene	ND		0.50	0.080	ug/L			04/01/25 06:00	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			04/01/25 06:00	1
Methylene Chloride	ND		0.50	0.20	ug/L			04/01/25 06:00	1
Styrene	ND		0.50	0.070	ug/L			04/01/25 06:00	1
Tetrachloroethene	2.9		0.50	0.20	ug/L			04/01/25 06:00	1
Toluene	ND		0.50	0.080	ug/L			04/01/25 06:00	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 06:00	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/01/25 06:00	1
Trichloroethene	0.16	J	0.50	0.080	ug/L			04/01/25 06:00	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/01/25 06:00	1
Xylenes, Total	ND		1.0	0.070	ug/L			04/01/25 06:00	1

Client Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-9

Date Collected: 03/27/25 11:00

Matrix: Water

Date Received: 03/28/25 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		04/01/25 06:00	1
4-Bromofluorobenzene (Surr)	96		80 - 120		04/01/25 06:00	1
Dibromofluoromethane (Surr)	106		80 - 120		04/01/25 06:00	1
Toluene-d8 (Surr)	92		80 - 120		04/01/25 06:00	1

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

Lab Sample ID: 410-214590-10

Date Collected: 03/27/25 11:30

Matrix: Water

Date Received: 03/28/25 16:00

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			04/01/25 06:22	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 06:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			04/01/25 06:22	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 06:22	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			04/01/25 06:22	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 06:22	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			04/01/25 06:22	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			04/01/25 06:22	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			04/01/25 06:22	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			04/01/25 06:22	1
2-Hexanone	ND		5.0	2.0	ug/L			04/01/25 06:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			04/01/25 06:22	1
Acetone	ND		5.0	1.5	ug/L			04/01/25 06:22	1
Benzene	ND		0.50	0.10	ug/L			04/01/25 06:22	1
Bromochloromethane	ND	^c cn	0.50	0.080	ug/L			04/01/25 06:22	1
Bromodichloromethane	ND		0.50	0.080	ug/L			04/01/25 06:22	1
Bromoform	ND		1.0	0.30	ug/L			04/01/25 06:22	1
Bromomethane	ND		0.50	0.10	ug/L			04/01/25 06:22	1
Carbon disulfide	0.42	J cn	1.0	0.10	ug/L			04/01/25 06:22	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			04/01/25 06:22	1
Chlorobenzene	ND		0.50	0.070	ug/L			04/01/25 06:22	1
Chloroethane	ND		0.50	0.10	ug/L			04/01/25 06:22	1
Chloroform	0.16	J	0.50	0.090	ug/L			04/01/25 06:22	1
Chloromethane	ND		0.50	0.10	ug/L			04/01/25 06:22	1
cis-1,2-Dichloroethene	0.097	J	0.50	0.080	ug/L			04/01/25 06:22	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/01/25 06:22	1
Dibromochloromethane	ND		0.50	0.080	ug/L			04/01/25 06:22	1
Ethylbenzene	ND		0.50	0.080	ug/L			04/01/25 06:22	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			04/01/25 06:22	1
Methylene Chloride	ND		0.50	0.20	ug/L			04/01/25 06:22	1
Styrene	ND		0.50	0.070	ug/L			04/01/25 06:22	1
Tetrachloroethene	ND		0.50	0.20	ug/L			04/01/25 06:22	1
Toluene	ND		0.50	0.080	ug/L			04/01/25 06:22	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 06:22	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/01/25 06:22	1
Trichloroethene	0.16	J	0.50	0.080	ug/L			04/01/25 06:22	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/01/25 06:22	1
Xylenes, Total	ND		1.0	0.070	ug/L			04/01/25 06:22	1

Client Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-10

Date Collected: 03/27/25 11:30

Matrix: Water

Date Received: 03/28/25 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		04/01/25 06:22	1
4-Bromofluorobenzene (Surr)	92		80 - 120		04/01/25 06:22	1
Dibromofluoromethane (Surr)	109		80 - 120		04/01/25 06:22	1
Toluene-d8 (Surr)	94		80 - 120		04/01/25 06:22	1

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

Lab Sample ID: 410-214590-11

Date Collected: 03/27/25 12:45

Matrix: Water

Date Received: 03/28/25 16:00

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			04/01/25 06:44	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 06:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			04/01/25 06:44	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 06:44	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			04/01/25 06:44	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 06:44	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			04/01/25 06:44	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			04/01/25 06:44	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			04/01/25 06:44	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			04/01/25 06:44	1
2-Hexanone	ND		5.0	2.0	ug/L			04/01/25 06:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			04/01/25 06:44	1
Acetone	1.9	J	5.0	1.5	ug/L			04/01/25 06:44	1
Benzene	ND		0.50	0.10	ug/L			04/01/25 06:44	1
Bromochloromethane	ND	^c cn	0.50	0.080	ug/L			04/01/25 06:44	1
Bromodichloromethane	ND		0.50	0.080	ug/L			04/01/25 06:44	1
Bromoform	ND		1.0	0.30	ug/L			04/01/25 06:44	1
Bromomethane	ND		0.50	0.10	ug/L			04/01/25 06:44	1
Carbon disulfide	0.31	J cn	1.0	0.10	ug/L			04/01/25 06:44	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			04/01/25 06:44	1
Chlorobenzene	ND		0.50	0.070	ug/L			04/01/25 06:44	1
Chloroethane	ND		0.50	0.10	ug/L			04/01/25 06:44	1
Chloroform	0.11	J	0.50	0.090	ug/L			04/01/25 06:44	1
Chloromethane	ND		0.50	0.10	ug/L			04/01/25 06:44	1
cis-1,2-Dichloroethene	0.086	J	0.50	0.080	ug/L			04/01/25 06:44	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/01/25 06:44	1
Dibromochloromethane	ND		0.50	0.080	ug/L			04/01/25 06:44	1
Ethylbenzene	ND		0.50	0.080	ug/L			04/01/25 06:44	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			04/01/25 06:44	1
Methylene Chloride	ND		0.50	0.20	ug/L			04/01/25 06:44	1
Styrene	ND		0.50	0.070	ug/L			04/01/25 06:44	1
Tetrachloroethene	0.22	J	0.50	0.20	ug/L			04/01/25 06:44	1
Toluene	0.24	J	0.50	0.080	ug/L			04/01/25 06:44	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 06:44	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/01/25 06:44	1
Trichloroethene	0.13	J	0.50	0.080	ug/L			04/01/25 06:44	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/01/25 06:44	1
Xylenes, Total	ND		1.0	0.070	ug/L			04/01/25 06:44	1

Client Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-11

Date Collected: 03/27/25 12:45

Matrix: Water

Date Received: 03/28/25 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		04/01/25 06:44	1
4-Bromofluorobenzene (Surr)	94		80 - 120		04/01/25 06:44	1
Dibromofluoromethane (Surr)	107		80 - 120		04/01/25 06:44	1
Toluene-d8 (Surr)	92		80 - 120		04/01/25 06:44	1

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

Lab Sample ID: 410-214590-12

Date Collected: 03/27/25 08:30

Matrix: Water

Date Received: 03/28/25 16:00

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			04/01/25 07:06	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 07:06	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			04/01/25 07:06	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 07:06	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			04/01/25 07:06	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 07:06	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			04/01/25 07:06	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			04/01/25 07:06	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			04/01/25 07:06	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			04/01/25 07:06	1
2-Hexanone	ND		5.0	2.0	ug/L			04/01/25 07:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			04/01/25 07:06	1
Acetone	ND		5.0	1.5	ug/L			04/01/25 07:06	1
Benzene	ND		0.50	0.10	ug/L			04/01/25 07:06	1
Bromochloromethane	ND	^c cn	0.50	0.080	ug/L			04/01/25 07:06	1
Bromodichloromethane	ND		0.50	0.080	ug/L			04/01/25 07:06	1
Bromoform	ND		1.0	0.30	ug/L			04/01/25 07:06	1
Bromomethane	ND		0.50	0.10	ug/L			04/01/25 07:06	1
Carbon disulfide	0.28	J cn	1.0	0.10	ug/L			04/01/25 07:06	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			04/01/25 07:06	1
Chlorobenzene	ND		0.50	0.070	ug/L			04/01/25 07:06	1
Chloroethane	ND		0.50	0.10	ug/L			04/01/25 07:06	1
Chloroform	0.10	J	0.50	0.090	ug/L			04/01/25 07:06	1
Chloromethane	ND		0.50	0.10	ug/L			04/01/25 07:06	1
cis-1,2-Dichloroethene	0.14	J	0.50	0.080	ug/L			04/01/25 07:06	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/01/25 07:06	1
Dibromochloromethane	ND		0.50	0.080	ug/L			04/01/25 07:06	1
Ethylbenzene	ND		0.50	0.080	ug/L			04/01/25 07:06	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			04/01/25 07:06	1
Methylene Chloride	ND		0.50	0.20	ug/L			04/01/25 07:06	1
Styrene	ND		0.50	0.070	ug/L			04/01/25 07:06	1
Tetrachloroethene	0.74		0.50	0.20	ug/L			04/01/25 07:06	1
Toluene	ND		0.50	0.080	ug/L			04/01/25 07:06	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 07:06	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/01/25 07:06	1
Trichloroethene	0.22	J	0.50	0.080	ug/L			04/01/25 07:06	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/01/25 07:06	1
Xylenes, Total	ND		1.0	0.070	ug/L			04/01/25 07:06	1

Client Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-12

Date Collected: 03/27/25 08:30

Matrix: Water

Date Received: 03/28/25 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		04/01/25 07:06	1
4-Bromofluorobenzene (Surr)	96		80 - 120		04/01/25 07:06	1
Dibromofluoromethane (Surr)	106		80 - 120		04/01/25 07:06	1
Toluene-d8 (Surr)	93		80 - 120		04/01/25 07:06	1

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

Lab Sample ID: 410-214590-13

Date Collected: 03/27/25 08:00

Matrix: Water

Date Received: 03/28/25 16:00

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			04/01/25 08:12	1
1,1,1-Trichloroethane	13		0.50	0.080	ug/L			04/01/25 08:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			04/01/25 08:12	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 08:12	1
1,1-Dichloroethane	2.1		0.50	0.10	ug/L			04/01/25 08:12	1
1,1-Dichloroethene	0.78		0.50	0.10	ug/L			04/01/25 08:12	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			04/01/25 08:12	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			04/01/25 08:12	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			04/01/25 08:12	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			04/01/25 08:12	1
2-Hexanone	ND		5.0	2.0	ug/L			04/01/25 08:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			04/01/25 08:12	1
Acetone	ND		5.0	1.5	ug/L			04/01/25 08:12	1
Benzene	ND		0.50	0.10	ug/L			04/01/25 08:12	1
Bromochloromethane	ND	^c cn	0.50	0.080	ug/L			04/01/25 08:12	1
Bromodichloromethane	ND		0.50	0.080	ug/L			04/01/25 08:12	1
Bromoform	ND		1.0	0.30	ug/L			04/01/25 08:12	1
Bromomethane	ND		0.50	0.10	ug/L			04/01/25 08:12	1
Carbon disulfide	0.21	J cn	1.0	0.10	ug/L			04/01/25 08:12	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			04/01/25 08:12	1
Chlorobenzene	ND		0.50	0.070	ug/L			04/01/25 08:12	1
Chloroethane	ND		0.50	0.10	ug/L			04/01/25 08:12	1
Chloroform	0.19	J	0.50	0.090	ug/L			04/01/25 08:12	1
Chloromethane	ND		0.50	0.10	ug/L			04/01/25 08:12	1
cis-1,2-Dichloroethene	2.7		0.50	0.080	ug/L			04/01/25 08:12	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/01/25 08:12	1
Dibromochloromethane	ND		0.50	0.080	ug/L			04/01/25 08:12	1
Ethylbenzene	ND		0.50	0.080	ug/L			04/01/25 08:12	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			04/01/25 08:12	1
Methylene Chloride	ND		0.50	0.20	ug/L			04/01/25 08:12	1
Styrene	ND		0.50	0.070	ug/L			04/01/25 08:12	1
Toluene	ND		0.50	0.080	ug/L			04/01/25 08:12	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 08:12	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/01/25 08:12	1
Trichloroethene	5.4		0.50	0.080	ug/L			04/01/25 08:12	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/01/25 08:12	1
Xylenes, Total	ND		1.0	0.070	ug/L			04/01/25 08:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		04/01/25 08:12	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-13

Date Collected: 03/27/25 08:00

Matrix: Water

Date Received: 03/28/25 16:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		04/01/25 08:12	1
Dibromofluoromethane (Surr)	107		80 - 120		04/01/25 08:12	1
Toluene-d8 (Surr)	87		80 - 120		04/01/25 08:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	180		10	4.0	ug/L			04/01/25 08:34	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		80 - 120		04/01/25 08:34	20
4-Bromofluorobenzene (Surr)	94		80 - 120		04/01/25 08:34	20
Dibromofluoromethane (Surr)	101		80 - 120		04/01/25 08:34	20
Toluene-d8 (Surr)	91		80 - 120		04/01/25 08:34	20

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

Lab Sample ID: 410-214590-14

Date Collected: 03/27/25 00:00

Matrix: Water

Date Received: 03/28/25 16:00

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			04/01/25 00:50	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 00:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			04/01/25 00:50	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 00:50	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			04/01/25 00:50	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 00:50	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			04/01/25 00:50	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			04/01/25 00:50	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			04/01/25 00:50	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			04/01/25 00:50	1
2-Hexanone	ND		5.0	2.0	ug/L			04/01/25 00:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			04/01/25 00:50	1
Acetone	ND		5.0	1.5	ug/L			04/01/25 00:50	1
Benzene	ND		0.50	0.10	ug/L			04/01/25 00:50	1
Bromochloromethane	ND	^c cn	0.50	0.080	ug/L			04/01/25 00:50	1
Bromodichloromethane	ND		0.50	0.080	ug/L			04/01/25 00:50	1
Bromoform	ND		1.0	0.30	ug/L			04/01/25 00:50	1
Bromomethane	ND		0.50	0.10	ug/L			04/01/25 00:50	1
Carbon disulfide	0.36	J cn	1.0	0.10	ug/L			04/01/25 00:50	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			04/01/25 00:50	1
Chlorobenzene	ND		0.50	0.070	ug/L			04/01/25 00:50	1
Chloroethane	ND		0.50	0.10	ug/L			04/01/25 00:50	1
Chloroform	ND		0.50	0.090	ug/L			04/01/25 00:50	1
Chloromethane	ND		0.50	0.10	ug/L			04/01/25 00:50	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			04/01/25 00:50	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/01/25 00:50	1
Dibromochloromethane	ND		0.50	0.080	ug/L			04/01/25 00:50	1
Ethylbenzene	ND		0.50	0.080	ug/L			04/01/25 00:50	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			04/01/25 00:50	1
Methylene Chloride	ND		0.50	0.20	ug/L			04/01/25 00:50	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-14

Date Collected: 03/27/25 00:00

Matrix: Water

Date Received: 03/28/25 16:00

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			04/01/25 00:50	1
Tetrachloroethene	ND		0.50	0.20	ug/L			04/01/25 00:50	1
Toluene	ND		0.50	0.080	ug/L			04/01/25 00:50	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 00:50	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/01/25 00:50	1
Trichloroethene	ND		0.50	0.080	ug/L			04/01/25 00:50	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/01/25 00:50	1
Xylenes, Total	ND		1.0	0.070	ug/L			04/01/25 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		04/01/25 00:50	1
4-Bromofluorobenzene (Surr)	97		80 - 120		04/01/25 00:50	1
Dibromofluoromethane (Surr)	104		80 - 120		04/01/25 00:50	1
Toluene-d8 (Surr)	93		80 - 120		04/01/25 00:50	1

Default Detection Limits

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

Job ID: 410-214590-1

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

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

Surrogate Summary

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

Job ID: 410-214590-1

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)
410-214590-1	HD-COD-SW-6-0/1-0	97	96	105	92
410-214590-2	HD-COD-SW-7-0/1-0	101	97	107	94
410-214590-3	HD-COD-SW-8-0/1-0	100	95	107	94
410-214590-4	HD-COD-SW-9-0/1-0	97	94	109	93
410-214590-5	HD-COD-SW-13-0/1-0	100	94	107	91
410-214590-6	HD-COD-SW-15-0/1-0	100	92	104	91
410-214590-6 MS	HD-COD-SW-15-0/1-0 MS	95	103	102	97
410-214590-6 MSD	HD-COD-SW-15-0/1-0 MSD	95	104	102	96
410-214590-7	HD-COD-SW-16-0/1-0	98	94	106	94
410-214590-8	HD-COD-SW-17-0/1-0	95	94	100	90
410-214590-8 - DL	HD-COD-SW-17-0/1-0	100	95	108	92
410-214590-9	HD-COD-SW-26-0/1-0	97	96	106	92
410-214590-10	HD-COD-SW-27-0/1-0	99	92	109	94
410-214590-11	HD-COD-SW-28-0/1-0	101	94	107	92
410-214590-12	HD-COD-SW-29-0/1-0	99	96	106	93
410-214590-13	HD-QC1-0/1-1	97	93	107	87
410-214590-13 - DL	HD-QC1-0/1-1	91	94	101	91
410-214590-14	HD-QC1-0/1-2	99	97	104	93
LCS 410-624273/4	Lab Control Sample	96	103	99	96
MB 410-624273/6	Method Blank	100	96	104	93

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: 410-214590-1

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

Lab Sample ID: MB 410-624273/6

Matrix: Water

Analysis Batch: 624273

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			04/01/25 00:28	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 00:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			04/01/25 00:28	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			04/01/25 00:28	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			04/01/25 00:28	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 00:28	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			04/01/25 00:28	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			04/01/25 00:28	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			04/01/25 00:28	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			04/01/25 00:28	1
2-Hexanone	ND		5.0	2.0	ug/L			04/01/25 00:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			04/01/25 00:28	1
Acetone	ND		5.0	1.5	ug/L			04/01/25 00:28	1
Benzene	ND		0.50	0.10	ug/L			04/01/25 00:28	1
Bromochloromethane	ND		0.50	0.080	ug/L			04/01/25 00:28	1
Bromodichloromethane	ND		0.50	0.080	ug/L			04/01/25 00:28	1
Bromoform	ND		1.0	0.30	ug/L			04/01/25 00:28	1
Bromomethane	ND		0.50	0.10	ug/L			04/01/25 00:28	1
Carbon disulfide	0.417	J	1.0	0.10	ug/L			04/01/25 00:28	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			04/01/25 00:28	1
Chlorobenzene	ND		0.50	0.070	ug/L			04/01/25 00:28	1
Chloroethane	ND		0.50	0.10	ug/L			04/01/25 00:28	1
Chloroform	ND		0.50	0.090	ug/L			04/01/25 00:28	1
Chloromethane	ND		0.50	0.10	ug/L			04/01/25 00:28	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			04/01/25 00:28	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/01/25 00:28	1
Dibromochloromethane	ND		0.50	0.080	ug/L			04/01/25 00:28	1
Ethylbenzene	ND		0.50	0.080	ug/L			04/01/25 00:28	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			04/01/25 00:28	1
Methylene Chloride	ND		0.50	0.20	ug/L			04/01/25 00:28	1
Styrene	ND		0.50	0.070	ug/L			04/01/25 00:28	1
Tetrachloroethene	ND		0.50	0.20	ug/L			04/01/25 00:28	1
Toluene	ND		0.50	0.080	ug/L			04/01/25 00:28	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			04/01/25 00:28	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/01/25 00:28	1
Trichloroethene	ND		0.50	0.080	ug/L			04/01/25 00:28	1
Vinyl chloride	ND		0.50	0.10	ug/L			04/01/25 00:28	1
Xylenes, Total	ND		1.0	0.070	ug/L			04/01/25 00:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		04/01/25 00:28	1
4-Bromofluorobenzene (Surr)	96		80 - 120		04/01/25 00:28	1
Dibromofluoromethane (Surr)	104		80 - 120		04/01/25 00:28	1
Toluene-d8 (Surr)	93		80 - 120		04/01/25 00:28	1

QC Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: LCS 410-624273/4

Matrix: Water

Analysis Batch: 624273

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	4.98		ug/L		100	80 - 122
1,1,1-Trichloroethane	5.00	5.14		ug/L		103	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.92		ug/L		98	75 - 123
1,1,2-Trichloroethane	5.00	4.76		ug/L		95	80 - 120
1,1-Dichloroethane	5.00	5.01		ug/L		100	74 - 120
1,1-Dichloroethene	5.00	5.45		ug/L		109	80 - 131
1,2-Dibromoethane (EDB)	5.00	4.71		ug/L		94	80 - 120
1,2-Dichloroethane	5.00	4.60		ug/L		92	69 - 122
1,2-Dichloropropane	5.00	5.01		ug/L		100	80 - 120
2-Butanone (MEK)	62.5	60.3		ug/L		96	59 - 141
2-Hexanone	62.5	62.7		ug/L		100	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	66.6		ug/L		107	55 - 140
Acetone	62.5	54.3		ug/L		87	60 - 146
Benzene	5.00	4.91		ug/L		98	80 - 120
Bromochloromethane	5.00	5.38		ug/L		108	80 - 133
Bromodichloromethane	5.00	5.13		ug/L		103	80 - 123
Bromoform	5.00	4.76		ug/L		95	75 - 126
Bromomethane	5.00	4.59		ug/L		92	63 - 120
Carbon disulfide	5.00	5.36		ug/L		107	67 - 130
Carbon tetrachloride	5.00	5.44		ug/L		109	64 - 141
Chlorobenzene	5.00	4.78		ug/L		96	80 - 120
Chloroethane	5.00	4.29		ug/L		86	63 - 120
Chloroform	5.00	5.17		ug/L		103	80 - 120
Chloromethane	5.00	3.97		ug/L		79	56 - 124
cis-1,2-Dichloroethene	5.00	5.01		ug/L		100	80 - 122
cis-1,3-Dichloropropene	5.00	4.46		ug/L		89	67 - 121
Dibromochloromethane	5.00	5.01		ug/L		100	80 - 123
Ethylbenzene	5.00	4.70		ug/L		94	80 - 120
Methyl tert-butyl ether	5.00	4.54		ug/L		91	69 - 120
Methylene Chloride	5.00	5.10		ug/L		102	80 - 120
Styrene	5.00	5.02		ug/L		100	80 - 120
Tetrachloroethene	5.00	4.62		ug/L		92	80 - 120
Toluene	5.00	4.68		ug/L		94	80 - 120
trans-1,2-Dichloroethene	5.00	5.10		ug/L		102	80 - 122
trans-1,3-Dichloropropene	5.00	4.44		ug/L		89	61 - 129
Trichloroethene	5.00	5.00		ug/L		100	80 - 120
Vinyl chloride	5.00	3.82		ug/L		76	60 - 125
Xylenes, Total	15.0	14.6		ug/L		97	80 - 120

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

QC Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-6 MS

Matrix: Water

Analysis Batch: 624273

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	5.98		ug/L		120	80 - 122
1,1,1-Trichloroethane	0.37	J	5.00	6.53		ug/L		123	78 - 126
1,1,2,2-Tetrachloroethane	ND		5.00	5.43		ug/L		108	75 - 123
1,1,2-Trichloroethane	ND		5.00	5.66		ug/L		113	80 - 120
1,1-Dichloroethane	0.11	J	5.00	6.04		ug/L		118	74 - 120
1,1-Dichloroethene	0.23	J	5.00	6.55		ug/L		126	80 - 131
1,2-Dibromoethane (EDB)	ND		5.00	5.53		ug/L		111	80 - 120
1,2-Dichloroethane	ND		5.00	5.44		ug/L		109	69 - 122
1,2-Dichloropropane	ND		5.00	5.83		ug/L		117	80 - 120
2-Butanone (MEK)	ND		62.6	73.2		ug/L		117	59 - 141
2-Hexanone	ND		62.6	72.0		ug/L		115	52 - 140
4-Methyl-2-pentanone (MIBK)	ND		62.6	77.1		ug/L		123	55 - 140
Acetone	ND		62.6	68.7		ug/L		110	60 - 146
Benzene	ND		5.00	5.74		ug/L		115	80 - 120
Bromochloromethane	ND	^c cn	5.00	6.12		ug/L		122	80 - 133
Bromodichloromethane	ND		5.00	5.96		ug/L		119	80 - 123
Bromoform	ND		5.00	5.60		ug/L		112	75 - 126
Bromomethane	ND		5.00	5.03		ug/L		100	63 - 120
Carbon disulfide	0.25	J cn	5.00	6.11		ug/L		117	67 - 130
Carbon tetrachloride	ND		5.00	6.59		ug/L		132	64 - 141
Chlorobenzene	ND		5.00	5.82		ug/L		116	80 - 120
Chloroethane	ND		5.00	4.68		ug/L		93	63 - 120
Chloroform	0.20	J FH	5.00	6.24	FH	ug/L		121	80 - 120
Chloromethane	ND		5.00	4.60		ug/L		92	80 - 120
cis-1,2-Dichloroethene	1.4		5.00	7.34		ug/L		120	80 - 122
cis-1,3-Dichloropropene	ND		5.00	5.01		ug/L		100	67 - 121
Dibromochloromethane	ND		5.00	5.82		ug/L		116	80 - 123
Ethylbenzene	ND		5.00	5.71		ug/L		114	80 - 120
Methyl tert-butyl ether	ND		5.00	4.99		ug/L		100	69 - 120
Methylene Chloride	ND		5.00	5.93		ug/L		119	80 - 120
Styrene	ND		5.00	5.83		ug/L		117	80 - 120
Tetrachloroethene	5.1		5.00	10.6		ug/L		110	80 - 120
Toluene	ND		5.00	5.74		ug/L		115	80 - 120
trans-1,2-Dichloroethene	ND		5.00	6.03		ug/L		120	80 - 122
trans-1,3-Dichloropropene	ND		5.00	5.08		ug/L		102	61 - 129
Trichloroethene	1.7		5.00	7.52		ug/L		116	80 - 120
Vinyl chloride	ND		5.00	5.38		ug/L		107	60 - 125
Xylenes, Total	ND		15.0	17.5		ug/L		116	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	97		80 - 120

QC Sample Results

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-6 MSD

Matrix: Water

Analysis Batch: 624273

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	5.58		ug/L		112	80 - 122	7	30
1,1,1-Trichloroethane	0.37	J	5.00	6.01		ug/L		113	78 - 126	8	30
1,1,2,2-Tetrachloroethane	ND		5.00	5.10		ug/L		102	75 - 123	6	30
1,1,2-Trichloroethane	ND		5.00	5.20		ug/L		104	80 - 120	8	30
1,1-Dichloroethane	0.11	J	5.00	5.50		ug/L		108	74 - 120	10	30
1,1-Dichloroethene	0.23	J	5.00	6.17		ug/L		119	80 - 131	6	30
1,2-Dibromoethane (EDB)	ND		5.00	5.16		ug/L		103	80 - 120	7	30
1,2-Dichloroethane	ND		5.00	5.30		ug/L		106	69 - 122	3	30
1,2-Dichloropropane	ND		5.00	5.47		ug/L		109	80 - 120	6	30
2-Butanone (MEK)	ND		62.6	68.8		ug/L		110	59 - 141	6	30
2-Hexanone	ND		62.6	66.7		ug/L		107	52 - 140	8	30
4-Methyl-2-pentanone (MIBK)	ND		62.6	71.5		ug/L		114	55 - 140	8	30
Acetone	ND		62.6	62.2		ug/L		99	60 - 146	10	30
Benzene	ND		5.00	5.35		ug/L		107	80 - 120	7	30
Bromochloromethane	ND	^c cn	5.00	5.89		ug/L		118	80 - 133	4	30
Bromodichloromethane	ND		5.00	5.62		ug/L		112	80 - 123	6	30
Bromoform	ND		5.00	5.21		ug/L		104	75 - 126	7	30
Bromomethane	ND		5.00	4.89		ug/L		98	63 - 120	3	30
Carbon disulfide	0.25	J cn	5.00	5.64		ug/L		108	67 - 130	8	30
Carbon tetrachloride	ND		5.00	6.12		ug/L		122	64 - 141	7	30
Chlorobenzene	ND		5.00	5.33		ug/L		107	80 - 120	9	30
Chloroethane	ND		5.00	4.68		ug/L		93	63 - 120	0	30
Chloroform	0.20	J FH	5.00	5.79		ug/L		112	80 - 120	7	30
Chloromethane	ND		5.00	4.72		ug/L		94	80 - 120	2	30
cis-1,2-Dichloroethene	1.4		5.00	6.86		ug/L		110	80 - 122	7	30
cis-1,3-Dichloropropene	ND		5.00	4.71		ug/L		94	67 - 121	6	30
Dibromochloromethane	ND		5.00	5.44		ug/L		109	80 - 123	7	30
Ethylbenzene	ND		5.00	5.23		ug/L		104	80 - 120	9	30
Methyl tert-butyl ether	ND		5.00	4.71		ug/L		94	69 - 120	6	30
Methylene Chloride	ND		5.00	5.46		ug/L		109	80 - 120	8	30
Styrene	ND		5.00	5.54		ug/L		111	80 - 120	5	30
Tetrachloroethene	5.1		5.00	9.83		ug/L		95	80 - 120	7	30
Toluene	ND		5.00	5.22		ug/L		104	80 - 120	9	30
trans-1,2-Dichloroethene	ND		5.00	5.53		ug/L		111	80 - 122	9	30
trans-1,3-Dichloropropene	ND		5.00	4.76		ug/L		95	61 - 129	7	30
Trichloroethene	1.7		5.00	6.96		ug/L		105	80 - 120	8	30
Vinyl chloride	ND		5.00	3.99		ug/L		80	60 - 125	30	30
Xylenes, Total	ND		15.0	16.1		ug/L		107	80 - 120	8	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	96		80 - 120

QC Association Summary

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

Job ID: 410-214590-1

GC/MS VOA

Analysis Batch: 624273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-214590-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-214590-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-214590-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
410-214590-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-214590-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-214590-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-214590-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
410-214590-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-214590-8 - DL	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-214590-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-214590-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
410-214590-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-214590-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-214590-13	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-214590-13 - DL	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-214590-14	HD-QC1-0/1-2	Total/NA	Water	8260D	
MB 410-624273/6	Method Blank	Total/NA	Water	8260D	
LCS 410-624273/4	Lab Control Sample	Total/NA	Water	8260D	
410-214590-6 MS	HD-COD-SW-15-0/1-0 MS	Total/NA	Water	8260D	
410-214590-6 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: 410-214590-1

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

Lab Sample ID: 410-214590-1

Date Collected: 03/27/25 10:40

Matrix: Water

Date Received: 03/28/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624273	JS6E	ELLE	04/01/25 02:41

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

Lab Sample ID: 410-214590-2

Date Collected: 03/27/25 11:18

Matrix: Water

Date Received: 03/28/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624273	JS6E	ELLE	04/01/25 03:03

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

Lab Sample ID: 410-214590-3

Date Collected: 03/27/25 08:42

Matrix: Water

Date Received: 03/28/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624273	JS6E	ELLE	04/01/25 03:26

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

Lab Sample ID: 410-214590-4

Date Collected: 03/27/25 12:30

Matrix: Water

Date Received: 03/28/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624273	JS6E	ELLE	04/01/25 03:48

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

Lab Sample ID: 410-214590-5

Date Collected: 03/27/25 08:55

Matrix: Water

Date Received: 03/28/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624273	JS6E	ELLE	04/01/25 04:10

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

Lab Sample ID: 410-214590-6

Date Collected: 03/27/25 11:37

Matrix: Water

Date Received: 03/28/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624273	JS6E	ELLE	04/01/25 04:32

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

Lab Sample ID: 410-214590-7

Date Collected: 03/27/25 09:15

Matrix: Water

Date Received: 03/28/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624273	JS6E	ELLE	04/01/25 05:38

Lab Chronicle

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

Job ID: 410-214590-1

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

Lab Sample ID: 410-214590-8

Date Collected: 03/27/25 09:22

Matrix: Water

Date Received: 03/28/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624273	JS6E	ELLE	04/01/25 07:28
Total/NA	Analysis	8260D	DL	20	624273	JS6E	ELLE	04/01/25 07:50

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

Lab Sample ID: 410-214590-9

Date Collected: 03/27/25 11:00

Matrix: Water

Date Received: 03/28/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624273	JS6E	ELLE	04/01/25 06:00

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

Lab Sample ID: 410-214590-10

Date Collected: 03/27/25 11:30

Matrix: Water

Date Received: 03/28/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624273	JS6E	ELLE	04/01/25 06:22

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

Lab Sample ID: 410-214590-11

Date Collected: 03/27/25 12:45

Matrix: Water

Date Received: 03/28/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624273	JS6E	ELLE	04/01/25 06:44

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

Lab Sample ID: 410-214590-12

Date Collected: 03/27/25 08:30

Matrix: Water

Date Received: 03/28/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624273	JS6E	ELLE	04/01/25 07:06

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

Lab Sample ID: 410-214590-13

Date Collected: 03/27/25 08:00

Matrix: Water

Date Received: 03/28/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624273	JS6E	ELLE	04/01/25 08:12
Total/NA	Analysis	8260D	DL	20	624273	JS6E	ELLE	04/01/25 08:34

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

Lab Sample ID: 410-214590-14

Date Collected: 03/27/25 00:00

Matrix: Water

Date Received: 03/28/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624273	JS6E	ELLE	04/01/25 00:50

Lab Chronicle

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

Job ID: 410-214590-1

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: 410-214590-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-26

Method Summary

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

Job ID: 410-214590-1

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: 410-214590-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-214590-1	HD-COD-SW-6-0/1-0	Water	03/27/25 10:40	03/28/25 16:00
410-214590-2	HD-COD-SW-7-0/1-0	Water	03/27/25 11:18	03/28/25 16:00
410-214590-3	HD-COD-SW-8-0/1-0	Water	03/27/25 08:42	03/28/25 16:00
410-214590-4	HD-COD-SW-9-0/1-0	Water	03/27/25 12:30	03/28/25 16:00
410-214590-5	HD-COD-SW-13-0/1-0	Water	03/27/25 08:55	03/28/25 16:00
410-214590-6	HD-COD-SW-15-0/1-0	Water	03/27/25 11:37	03/28/25 16:00
410-214590-7	HD-COD-SW-16-0/1-0	Water	03/27/25 09:15	03/28/25 16:00
410-214590-8	HD-COD-SW-17-0/1-0	Water	03/27/25 09:22	03/28/25 16:00
410-214590-9	HD-COD-SW-26-0/1-0	Water	03/27/25 11:00	03/28/25 16:00
410-214590-10	HD-COD-SW-27-0/1-0	Water	03/27/25 11:30	03/28/25 16:00
410-214590-11	HD-COD-SW-28-0/1-0	Water	03/27/25 12:45	03/28/25 16:00
410-214590-12	HD-COD-SW-29-0/1-0	Water	03/27/25 08:30	03/28/25 16:00
410-214590-13	HD-QC1-0/1-1	Water	03/27/25 08:00	03/28/25 16:00
410-214590-14	HD-QC1-0/1-2	Water	03/27/25 00:00	03/28/25 16:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Instrument ID: 16334

Analysis Batch Number: 70996

Lab Sample ID: IC 410-70996/3

Client Sample ID:

Date Analyzed: 11/30/20 12:50

Lab File ID: GN30I01.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.95	Other	virayd	12/01/20 11:38
1,2-Dichloroethane	7.33	Other	virayd	12/01/20 11:38

Lab Sample ID: ICIS 410-70996/4

Client Sample ID:

Date Analyzed: 11/30/20 13:12

Lab File ID: GN30I02.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.56	Other	virayd	12/01/20 11:45

Lab Sample ID: IC 410-70996/5

Client Sample ID:

Date Analyzed: 11/30/20 13:34

Lab File ID: GN30I03.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol	4.31	Other	virayd	12/01/20 11:47
1,2-Dichloroethane	7.33	Other	virayd	12/01/20 11:47
1,4-Dioxane	8.57	Other	virayd	12/01/20 11:47

Lab Sample ID: IC 410-70996/6

Client Sample ID:

Date Analyzed: 11/30/20 13:56

Lab File ID: GN30I04.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.97	Other	virayd	12/01/20 11:49
t-Butyl alcohol	4.34	Other	virayd	12/01/20 11:49
1,4-Dioxane	8.57	Other	virayd	12/01/20 11:49

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Instrument ID: 16334

Analysis Batch Number: 70996

Lab Sample ID: IC 410-70996/7

Client Sample ID:

Date Analyzed: 11/30/20 14:19

Lab File ID: GN30I05.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.97	Other	virayd	12/01/20 11:51
n-Butanol	8.05	Other	virayd	12/01/20 11:51
1,4-Dioxane	8.57	Other	virayd	12/01/20 11:52

Lab Sample ID: IC 410-70996/8

Client Sample ID:

Date Analyzed: 11/30/20 14:41

Lab File ID: GN30I06.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.96	Other	virayd	12/01/20 11:53
1,3-Butadiene	2.26	Other	virayd	12/01/20 11:53
Bromomethane	2.59	Other	virayd	12/01/20 11:53
Dichlorofluoromethane	2.90	Other	virayd	12/01/20 11:53
Ethyl ether	3.21	Other	virayd	12/01/20 11:53
Acetone	3.55	Other	virayd	12/01/20 11:54
Methyl iodide	3.71	Other	virayd	12/01/20 11:54
t-Butyl alcohol	4.34	Other	virayd	12/01/20 11:54
2,2-Dichloropropane	6.10	Other	virayd	12/01/20 11:54
Carbon tetrachloride	6.99	Other	virayd	12/01/20 11:55
1,4-Dioxane	8.57	Other	virayd	12/01/20 11:55
Dibromomethane	8.58	Other	virayd	12/01/20 11:55

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Instrument ID: 16334

Analysis Batch Number: 70996

Lab Sample ID: IC 410-70996/9

Client Sample ID:

Date Analyzed: 11/30/20 15:03

Lab File ID: GN30I07.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.25	Other	virayd	12/01/20 11:56
Vinyl chloride	2.25	Other	virayd	12/01/20 11:57
Dichlorofluoromethane	2.90	Other	virayd	12/01/20 11:57
Trichlorofluoromethane	2.96	Other	virayd	12/01/20 11:57
Ethyl ether	3.20	Other	virayd	12/01/20 11:57
Acrolein	3.37	Other	virayd	12/01/20 11:57
Acetone	3.54	Other	virayd	12/01/20 11:58
Methyl acetate	3.96	Other	virayd	12/01/20 11:58
Allyl chloride	3.98	Other	virayd	12/01/20 11:58
Methylene Chloride	4.16	Other	virayd	12/01/20 11:58
t-Butyl alcohol	4.32	Other	virayd	12/01/20 11:58
2,2-Dichloropropane	6.08	Other	virayd	12/01/20 11:58
Methacrylonitrile	6.35	Other	virayd	12/01/20 11:58
1,1,1-Trichloroethane	6.79	Other	virayd	12/01/20 11:59
Cyclohexane	6.87	Other	virayd	12/01/20 11:59
Carbon tetrachloride	6.99	Other	virayd	12/01/20 11:59
Isobutyl alcohol	7.17	Other	virayd	12/01/20 11:59
Trichloroethene	8.14	Other	virayd	12/01/20 11:59
Methyl methacrylate	8.56	Other	virayd	12/01/20 11:59
1,4-Dioxane	8.57	Other	virayd	12/01/20 11:59

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Instrument ID: 16334

Analysis Batch Number: 70996

Lab Sample ID: ICV 410-70996/19

Client Sample ID:

Date Analyzed: 11/30/20 18:45

Lab File ID: GN30V11.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.92	Other	virayd	12/01/20 13:25
Ethyl acetate	6.10	Other	virayd	12/01/20 13:25
Chloroacetonitrile	9.20	Other	virayd	12/01/20 13:25
Acrolein		Invalid Compound ID	virayd	12/01/20 13:25

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Instrument ID: 16334

Analysis Batch Number: 581544

Lab Sample ID: IC 410-581544/13

Client Sample ID:

Date Analyzed: 12/03/24 16:05

Lab File ID: GD03X12.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.89	Baseline	UCB5	12/08/24 11:06
1,3-Butadiene	1.97	Incomplete Integration	DVW2	12/04/24 08:31
Bromomethane	2.28	Incomplete Integration	DVW2	12/04/24 08:32
Ethyl ether	2.77	Incomplete Integration	DVW2	12/04/24 08:32
Acrolein	2.93	Incomplete Integration	DVW2	12/04/24 08:42
Methyl acetate	3.42	Incomplete Integration	DVW2	12/04/24 08:32
t-Butyl alcohol-d10 (IS)	3.62	Incomplete Integration	DVW2	12/04/24 08:32
trans-1,2-Dichloroethene	3.94	Incomplete Integration	DVW2	12/04/24 08:32
2-Chloro-1,3-butadiene	4.68	Incomplete Integration	UCB5	12/08/24 11:07
Ethyl t-butyl ether	5.18	Incomplete Integration	UCB5	12/08/24 11:07
2,2-Dichloropropane	5.43	Incomplete Integration	DVW2	12/04/24 08:12
2-Butanone (MEK)	5.44	Incomplete Integration	UCB5	12/08/24 11:07
Propionitrile	5.68	Incomplete Integration	DVW2	12/04/24 08:32
Bromochloromethane	5.75	Incomplete Integration	DVW2	12/04/24 08:32
1,1,1-Trichloroethane	6.14	Incomplete Integration	DVW2	12/04/24 08:33
Isobutyl alcohol	6.59	Incomplete Integration	DVW2	12/04/24 08:33
1,2-Dichloroethane	6.70	Incomplete Integration	DVW2	12/04/24 08:33
Dibromomethane	7.99	Incomplete Integration	DVW2	12/04/24 08:33
Methyl methacrylate	8.01	Incomplete Integration	DVW2	12/04/24 08:33
2-Nitropropane	8.51	Incomplete Integration	DVW2	12/04/24 08:33
1-Bromo-2-chloroethane	8.63	Incomplete Integration	DVW2	12/04/24 08:33
cis-1,3-Dichloropropene	8.81	Incomplete Integration	DVW2	12/04/24 08:33
trans-1,3-Dichloropropene	9.54	Incomplete Integration	UCB5	12/08/24 11:08
Tetrahydrofuran		Incomplete Integration	DVW2	12/04/24 08:32
2-Hexanone	10.01	Incomplete Integration	DVW2	12/04/24 08:33
Styrene	11.31	Incomplete Integration	DVW2	12/04/24 08:34
Benzyl chloride	12.75	Incomplete Integration	DVW2	12/04/24 08:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Instrument ID: 16334

Analysis Batch Number: 581544

Lab Sample ID: IC 410-581544/14

Client Sample ID:

Date Analyzed: 12/03/24 16:27

Lab File ID: GD03X13.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.26	Incomplete Integration	DVW2	12/04/24 08:28
Acrolein	2.92	Incomplete Integration	DVW2	12/04/24 08:42
Methyl acetate	3.43	Baseline	UCB5	12/08/24 11:33
t-Butyl alcohol-d10 (IS)	3.60	Incomplete Integration	DVW2	12/04/24 08:29
t-Butyl alcohol	3.74	Incomplete Integration	DVW2	12/04/24 08:30
trans-1,2-Dichloroethene	3.93	Incomplete Integration	UCB5	12/08/24 11:09
2,2-Dichloropropane	5.42	Incomplete Integration	DVW2	12/04/24 08:12
2-Butanone (MEK)	5.42	Incomplete Integration	UCB5	12/08/24 11:10
Propionitrile	5.55	Incomplete Integration	DVW2	12/04/24 08:30
Isobutyl alcohol	6.60	Incomplete Integration	DVW2	12/04/24 08:30
n-Butanol	7.62	Incomplete Integration	DVW2	12/04/24 08:30
Methyl methacrylate	8.00	Incomplete Integration	DVW2	12/04/24 08:31
1,4-Dioxane	8.02	Incomplete Integration	DVW2	12/04/24 08:30
2-Nitropropane	8.51	Incomplete Integration	DVW2	12/04/24 08:31
2-Hexanone	10.00	Incomplete Integration	DVW2	12/04/24 08:39
1,2-Dibromoethane (EDB)	10.25	Incomplete Integration	UCB5	12/08/24 11:11
Benzyl chloride	12.74	Incomplete Integration	DVW2	12/04/24 08:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Instrument ID: 16334

Analysis Batch Number: 581544

Lab Sample ID: IC 410-581544/15

Client Sample ID:

Date Analyzed: 12/03/24 16:50

Lab File ID: GD03X14.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.27	Incomplete Integration	DVW2	12/04/24 08:27
Ethyl ether	2.77	Incomplete Integration	UCB5	12/08/24 11:14
Acrolein	2.92	Incomplete Integration	DVW2	12/04/24 08:42
Methyl acetate	3.39	Shouldering	UCB5	12/08/24 11:32
t-Butyl alcohol-d10 (IS)	3.61	Incomplete Integration	DVW2	12/04/24 08:27
1,1-Dichloroethane	4.56	Incomplete Integration	UCB5	12/08/24 11:14
2,2-Dichloropropane	5.43	Incomplete Integration	DVW2	12/04/24 08:12
Propionitrile	5.50	Incomplete Integration	DVW2	12/04/24 08:28
Bromochloromethane	5.76	Incomplete Integration	UCB5	12/08/24 11:15
Isobutyl alcohol	6.61	Incomplete Integration	DVW2	12/04/24 08:37
Benzene	6.63	Incomplete Integration	UCB5	12/08/24 11:15
n-Heptane	7.07	Baseline	UCB5	12/08/24 11:15
1,4-Dioxane	7.99	Incomplete Integration	DVW2	12/04/24 08:28
Benzyl chloride	12.74	Incomplete Integration	DVW2	12/04/24 08:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Instrument ID: 16334

Analysis Batch Number: 581544

Lab Sample ID: IC 410-581544/16

Client Sample ID:

Date Analyzed: 12/03/24 17:12

Lab File ID: GD03X15.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.28	Incomplete Integration	DVW2	12/04/24 08:19
Acrolein	2.92	Incomplete Integration	DVW2	12/04/24 08:42
Methyl acetate	3.42	Baseline	UCB5	12/08/24 11:33
t-Butyl alcohol-d10 (IS)	3.64	Incomplete Integration	DVW2	12/04/24 08:21
Acrylonitrile	3.91	Incomplete Integration	DVW2	12/04/24 08:22
2,2-Dichloropropane	5.43	Incomplete Integration	DVW2	12/04/24 08:13
Propionitrile	5.50	Incomplete Integration	DVW2	12/04/24 08:24
Isobutyl alcohol	6.59	Incomplete Integration	DVW2	12/04/24 08:37
1,4-Dioxane	7.99	Incomplete Integration	DVW2	12/04/24 08:27
Benzyl chloride	12.74	Incomplete Integration	DVW2	12/04/24 08:11

Lab Sample ID: IC 410-581544/17

Client Sample ID:

Date Analyzed: 12/03/24 17:34

Lab File ID: GD03X16.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.26	Incomplete Integration	DVW2	12/04/24 08:16
Acrolein	2.91	Incomplete Integration	DVW2	12/04/24 08:41
Methyl acetate	3.41	Baseline	UCB5	12/08/24 11:35
Acrylonitrile	3.89	Incomplete Integration	DVW2	12/04/24 08:22
2,2-Dichloropropane	5.43	Incomplete Integration	DVW2	12/04/24 08:13
Isobutyl alcohol	6.58	Incomplete Integration	DVW2	12/04/24 08:37
1,4-Dioxane	7.99	Incomplete Integration	DVW2	12/04/24 08:18
Benzyl chloride	12.74	Incomplete Integration	DVW2	12/04/24 08:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Instrument ID: 16334

Analysis Batch Number: 581544

Lab Sample ID: ICIS 410-581544/18

Client Sample ID:

Date Analyzed: 12/03/24 17:56

Lab File ID: GD03X17.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.27	Incomplete Integration	DVW2	12/04/24 08:55
Acrolein	2.91	Incomplete Integration	DVW2	12/04/24 08:41
Methyl acetate	3.41	Baseline	UCB5	12/08/24 11:36
t-Butyl alcohol-d10 (IS)	3.63	Incomplete Integration	DVW2	12/04/24 08:09
2,2-Dichloropropane	5.44	Incomplete Integration	DVW2	12/04/24 08:09
Isobutyl alcohol	6.57	Incomplete Integration	DVW2	12/04/24 08:37
1,2-Dichloroethane	6.70	Shouldering	UCB5	12/08/24 11:23
1,4-Dioxane	7.98	Incomplete Integration	DVW2	12/04/24 08:10
Benzyl chloride	12.74	Incomplete Integration	DVW2	12/04/24 08:10

Lab Sample ID: IC 410-581544/19

Client Sample ID:

Date Analyzed: 12/03/24 18:18

Lab File ID: GD03X18.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.28	Incomplete Integration	DVW2	12/04/24 08:14
Acrolein	2.92	Incomplete Integration	DVW2	12/04/24 08:41
Methyl acetate	3.42	Baseline	UCB5	12/08/24 11:24
t-Butyl alcohol-d10 (IS)	3.62	Incomplete Integration	DVW2	12/04/24 08:14
2,2-Dichloropropane	5.44	Incomplete Integration	DVW2	12/04/24 08:13
1,2-Dichloroethane	6.70	Shouldering	UCB5	12/08/24 11:25
1,4-Dioxane	7.98	Incomplete Integration	DVW2	12/04/24 08:15
Benzyl chloride	12.74	Incomplete Integration	DVW2	12/04/24 08:10

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Instrument ID: 16334

Analysis Batch Number: 581544

Lab Sample ID: ICV 410-581544/21

Client Sample ID:

Date Analyzed: 12/03/24 19:02

Lab File ID: GD03X20.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.27	Incomplete Integration	DVW2	12/04/24 08:39
Acrolein	2.91	Incomplete Integration	DVW2	12/04/24 08:40
Methyl acetate	3.41	Incomplete Integration	UCB5	12/08/24 12:06
2,2-Dichloropropane	5.42	Incomplete Integration	DVW2	12/04/24 08:43
Propionitrile	5.52	Incomplete Integration	DVW2	12/04/24 08:43
Isobutyl alcohol	6.58	Incomplete Integration	DVW2	12/04/24 08:43
1,4-Dioxane	7.99	Incomplete Integration	DVW2	12/04/24 08:44
Benzyl chloride	12.74	Incomplete Integration	DVW2	12/04/24 08:44

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Instrument ID: 16334

Analysis Batch Number: 624273

Lab Sample ID: CCVIS 410-624273/3

Client Sample ID:

Date Analyzed: 03/31/25 23:22

Lab File ID: GM31X02.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.43	Incomplete Integration	JS6E	03/31/25 23:43
1,4-Dioxane	7.99	Split Peak	JS6E	03/31/25 23:45

Lab Sample ID: MB 410-624273/6

Client Sample ID:

Date Analyzed: 04/01/25 00:28

Lab File ID: GM31X05.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.29	Incomplete Integration	JS6E	04/01/25 01:31

Lab Sample ID: 410-214590-14

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

Date Analyzed: 04/01/25 00:50

Lab File ID: GM31X06.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.34	Incomplete Integration	QD9U	04/01/25 14:29

Lab Sample ID: 410-214590-1

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

Date Analyzed: 04/01/25 02:41

Lab File ID: GM31X11.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.29	Incomplete Integration	QD9U	04/01/25 14:31
Acetone		Invalid Compound ID	QD9U	04/01/25 14:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Instrument ID: 16334

Analysis Batch Number: 624273

Lab Sample ID: 410-214590-3

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

Date Analyzed: 04/01/25 03:26

Lab File ID: GM31X13.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.30	Incomplete Integration	QD9U	04/01/25 14:54
Acetone		Invalid Compound ID	QD9U	04/01/25 14:53

Lab Sample ID: 410-214590-4

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

Date Analyzed: 04/01/25 03:48

Lab File ID: GM31X14.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.29	Incomplete Integration	QD9U	04/01/25 15:16
Chloroform	5.94	Peak assignment corrected	QD9U	04/01/25 15:16
Benzene	6.64	Incomplete Integration	QD9U	04/01/25 15:16
Chloromethane		Invalid Compound ID	QD9U	04/01/25 15:16

Lab Sample ID: 410-214590-5

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

Date Analyzed: 04/01/25 04:10

Lab File ID: GM31X15.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.31	Incomplete Integration	QD9U	04/01/25 15:34
Trichloroethene	7.56	Peak assignment corrected	QD9U	04/01/25 15:34

Lab Sample ID: 410-214590-6

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

Date Analyzed: 04/01/25 04:32

Lab File ID: GM31X16.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.29	Incomplete Integration	FQ4L	04/02/25 07:58

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Instrument ID: 16334

Analysis Batch Number: 624273

Lab Sample ID: 410-214590-6 MSD

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

Date Analyzed: 04/01/25 05:16

Lab File ID: GM31X18.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.27	Incomplete Integration	FQ4L	04/02/25 07:55

Lab Sample ID: 410-214590-7

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

Date Analyzed: 04/01/25 05:38

Lab File ID: GM31X19.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.28	Incomplete Integration	FQ4L	04/02/25 07:54
Chloroform	5.92	Peak assignment corrected	FQ4L	04/02/25 07:54
Acetone		Invalid Compound ID	FQ4L	04/02/25 07:54

Lab Sample ID: 410-214590-9

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

Date Analyzed: 04/01/25 06:00

Lab File ID: GM31X20.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.29	Incomplete Integration	FQ4L	04/02/25 07:53
1,1-Dichloroethane		Peak assignment corrected	FQ4L	04/02/25 07:53

Lab Sample ID: 410-214590-10

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

Date Analyzed: 04/01/25 06:22

Lab File ID: GM31X21.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.88	Peak assignment corrected	FQ4L	04/02/25 07:34
Carbon disulfide	3.31	Incomplete Integration	FQ4L	04/02/25 07:35
Trichloroethene	7.56	Incomplete Integration	FQ4L	04/02/25 07:35
Acetone		Invalid Compound ID	FQ4L	04/02/25 07:35

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Instrument ID: 16334

Analysis Batch Number: 624273

Lab Sample ID: 410-214590-11

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

Date Analyzed: 04/01/25 06:44

Lab File ID: GM31X22.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.30	Incomplete Integration	FQ4L	04/02/25 07:34
cis-1,2-Dichloroethene	5.46	Peak assignment corrected	FQ4L	04/02/25 07:34
Trichloroethene	7.56	Peak assignment corrected	FQ4L	04/02/25 07:34

Lab Sample ID: 410-214590-12

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

Date Analyzed: 04/01/25 07:06

Lab File ID: GM31X23.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.31	Incomplete Integration	FQ4L	04/02/25 07:30

Lab Sample ID: 410-214590-8

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

Date Analyzed: 04/01/25 07:28

Lab File ID: GM31X24.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.32	Incomplete Integration	FQ4L	04/02/25 07:29
1,1,2-Trichloroethane		Invalid Compound ID	FQ4L	04/02/25 07:29

Lab Sample ID: 410-214590-13

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

Date Analyzed: 04/01/25 08:12

Lab File ID: GM31X26.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.31	Incomplete Integration	FQ4L	04/02/25 07:23
trans-1,2-Dichloroethene	3.96	Incomplete Integration	FQ4L	04/02/25 07:26
1,1,2-Trichloroethane		Invalid Compound ID	FQ4L	04/02/25 07:27

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_29_826ISS_00013	05/16/21	11/16/20	Methanol, Lot DZ644	10 mL	MSV_8260_SS_00263	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_00151	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
.MSV_8260_SS_00263	03/31/22	Restek, Lot A0146938			(Purchased Reagent)		t-Butyl alcohol-d10 (IS)	1250 ug/mL
							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_00151	05/31/21	Restek, Lot A0138205			(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_29_826ISS_00057	04/28/25	10/31/24	Methanol, Lot EH822	10 mL	MSV_8260_SS_01300	834 uL	1,2-Dichloroethane-d4 (Surr)	208.5 ug/mL
							4-Bromofluorobenzene (Surr)	208.5 ug/mL
							Dibromofluoromethane (Surr)	208.5 ug/mL
							Toluene-d8 (Surr)	208.5 ug/mL
					MSV_Cus826_IS_00687	834 uL	1,4-Dichlorobenzene-d4	208.5 ug/mL
							Chlorobenzene-d5 (IS)	208.5 ug/mL
							Fluorobenzene (IS)	208.5 ug/mL
.MSV_8260_SS_01300	04/30/29	Restek, Lot A0209669			(Purchased Reagent)		t-Butyl alcohol-d10 (IS)	1042.5 ug/mL
							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_00687	10/31/26	Restek, Lot A0203141			(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_29_826ISS_00058	06/16/25	12/16/24	Methanol, Lot EH822	10 mL	MSV_Cus826_IS_00695	834 uL	1,4-Dichlorobenzene-d4	208.5 ug/mL
							Chlorobenzene-d5 (IS)	208.5 ug/mL
							Fluorobenzene (IS)	208.5 ug/mL
							t-Butyl alcohol-d10 (IS)	1042.5 ug/mL
							.MSV_Cus826_IS_00695	10/31/26
Chlorobenzene-d5 (IS)	2500 ug/mL							
Fluorobenzene (IS)	2500 ug/mL							
t-Butyl alcohol-d10 (IS)	12500 ug/mL							
MSV_29_826ISS_00058	06/16/25	12/16/24	Methanol, Lot EH822	10 mL	MSV_8260_SS_01342	834 uL	1,2-Dichloroethane-d4 (Surr)	208.5 ug/mL
							4-Bromofluorobenzene (Surr)	208.5 ug/mL
							Dibromofluoromethane (Surr)	208.5 ug/mL
							Toluene-d8 (Surr)	208.5 ug/mL
							.MSV_8260_SS_01342	07/31/29

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MSV_LCS_VOC#1_00197	01/01/25	12/02/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00237	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_00239	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00237	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_00237	05/31/27	Restek, Lot A0211284			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	1000 ug/mL	
						1,1,1-Trichloroethane	1000 ug/mL	
						1,1,2,2-Tetrachloroethane	1000 ug/mL	
						1,1,2-Trichloroethane	1000 ug/mL	
						1,1-Dichloroethane	1000 ug/mL	
						1,1-Dichloroethene	1000 ug/mL	
						1,2-Dibromoethane (EDB)	1000 ug/mL	
						1,2-Dichloroethane	1000 ug/mL	
						1,2-Dichloropropane	1000 ug/mL	
						Benzene	1000 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00239	05/31/27		Restek, Lot A0212017		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00237	04/30/27		Restek, Lot A0209876		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00214	04/23/25	03/24/25	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00261	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00258	1 mL	Carbon disulfide	40 ug/mL
					MSV_Q_Ketones_00257	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_00261	05/31/27	Restek, Lot A0211284			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
						1,1,1-Trichloroethane	1000 ug/mL	
						1,1,2,2-Tetrachloroethane	1000 ug/mL	
						1,1,2-Trichloroethane	1000 ug/mL	
						1,1-Dichloroethane	1000 ug/mL	
						1,1-Dichloroethene	1000 ug/mL	
						1,2-Dibromoethane (EDB)	1000 ug/mL	
						1,2-Dichloroethane	1000 ug/mL	
						1,2-Dichloropropane	1000 ug/mL	
						Benzene	1000 ug/mL	
						Bromochloromethane	1000 ug/mL	
						Bromodichloromethane	1000 ug/mL	
						Bromoform	1000 ug/mL	
						Carbon tetrachloride	1000 ug/mL	
						Chlorobenzene	1000 ug/mL	
						Chloroform	1000 ug/mL	
						cis-1,2-Dichloroethene	1000 ug/mL	
						cis-1,3-Dichloropropene	1000 ug/mL	
						Dibromochloromethane	1000 ug/mL	
						Ethylbenzene	1000 ug/mL	
						Methylene Chloride	1000 ug/mL	
						Styrene	1000 ug/mL	
						Tetrachloroethene	1000 ug/mL	
						Toluene	1000 ug/mL	
						trans-1,2-Dichloroethene	1000 ug/mL	
						trans-1,3-Dichloropropene	1000 ug/mL	
						Trichloroethene	1000 ug/mL	
.MSV_M_MIX2SEC_00258	05/31/27	Restek, Lot A0212017			(Purchased Reagent)		Carbon disulfide	1000 ug/mL
						Methyl tert-butyl ether	1000 ug/mL	
.MSV_Q_Ketones_00257	04/30/27	Restek, Lot A0209876			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
						2-Hexanone	12500 ug/mL	
						4-Methyl-2-pentanone (MIBK)	12500 ug/mL	
						Acetone	12500 ug/mL	
MSV_LL_#1_826_00155	01/01/25	12/02/24	Methanol, Lot EH822	1 mL	MSV_CCV_VOC#1_00212	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Trichloropropene	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-Dichloropropene	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
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00211	200 uL	Acrolein	2439.65 ug/mL
					MSV_V_VOA2_00266	150 uL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
							1,4-Dioxane	2500 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	4375 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

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_00212	01/01/25	12/02/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00211	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
					MSV_MegaMix#2_00209	1 mL	Trichloroethene	1000 ug/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_00211	01/01/25	Restek, Lot A0211483			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00209	01/01/25		Restek, Lot A0212010		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00211	01/01/25	12/02/24	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00024	0.5 mL	Acrolein	12198.3 ug/mL
					MSV_V_Ketones_00208	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_00024	01/20/25	11/21/24	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00044	9.004 mL	Acrolein	121983 ug/mL
...MSV_VACR_STK_00044	01/20/25	11/21/24	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00037	1.4583 g	Acrolein	135476 ug/mL
....MSV_ACROLEIN_00037	01/31/25		Chem Service, Lot 15807600		(Purchased Reagent)		Acrolein	0.929 g/g
..MSV_V_Ketones_00208	04/30/27		Restek, Lot A0210935		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MSV_V_VOA2_00266	01/01/25	12/02/24	Methanol, Lot EH471	5 mL	MSV_V#2B_00401	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	25000 ug/mL
							Propionitrile	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSV_V#2B_00401	05/31/26		Restek, Lot A0211456		(Purchased Reagent)		trans-1,4-Dichloro-2-butene	2500 ug/mL
							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_00163	04/30/25	03/31/25	Methanol, Lot EJ274	1 mL	MSV_CCV_VOC#1_00229	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_00230	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_00229	04/30/25	03/31/25	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00228	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	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_00225	1 mL	Carbon disulfide	1000 ug/mL
					..MSV_MegaMIX#1_00228	04/30/25	Restek, Lot A0211483	
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							
Dibromochloromethane	5000 ug/mL							
Ethylbenzene	5000 ug/mL							
Methylene Chloride	5000 ug/mL							
Styrene	5000 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00225	04/30/25		Restek, Lot A0212010		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
.MSV_CCV_VOC#3_00230	04/30/25	03/31/25	Methanol, Lot EH471	5 mL	MSV_V_Ketones_00221	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_00221	04/30/27		Restek, Lot A0210935		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LL_#2_826_00163	12/05/24	11/25/24	Methanol, Lot EH822	1 mL	CCV_ETBR_00008	50 uL	Ethyl bromide	50.0802 ug/mL
					MSV_BCE_00073	25 uL	1-Bromo-2-chloroethane	50 ug/mL
					MSV_CCV_EE_00008	50 uL	Ethyl ether	49.9966 ug/mL
					MSV_V_PentaCL_00063	10 uL	Pentachloroethane	50 ug/mL
.CCV_ETBR_00008	05/06/25	11/06/24	Methanol, Lot EH471	10 mL	MSV_VETBR_STK_00017	0.191 mL	Ethyl bromide	1001.6 ug/mL
..MSV_VETBR_STK_00017	05/06/25	11/06/24	Methanol, Lot EH471	10 mL	MSV_EtBr_00010	0.5244 g	Ethyl bromide	52440 ug/mL
...MSV_EtBr_00010	06/30/25		Chem Service, Lot 13345600		(Purchased Reagent)		Ethyl bromide	1 g/g
.MSV_BCE_00073	12/05/24		Restek, Lot A0201612		(Purchased Reagent)		1-Bromo-2-chloroethane	2000 ug/mL
.MSV_CCV_EE_00008	05/06/25	11/06/24	Methanol, Lot EH471	50 mL	MSV_EE_MISCSK_00015	1.115 mL	Ethyl ether	999.932 ug/mL
..MSV_EE_MISCSK_00015	05/06/25	11/06/24	Methanol, Lot EH471	10 mL	MSV_EE_Neat_00012	0.4484 g	Ethyl ether	44840 ug/mL
...MSV_EE_Neat_00012	06/30/27		Chem Service, Lot 14084700		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00063	12/25/24		Restek, Lot A0197490		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_GAS826_00247	12/10/24	12/03/24	Methanol, Lot EH822	1 mL	MSV_CCV_GASES_00930	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_00930	12/10/24		Restek, Lot A0212054		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	2000 ug/mL
MSV_LL_GAS826_00264	04/07/25	03/31/25	Methanol, Lot EJ274	1 mL	MSV_CCV_GASES_00998	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00998	04/07/25		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_00234	12/05/24	12/02/24	Methanol, Lot EH822	1 mL	MSV_QC_2K_GAS_00279	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00279	12/09/24		Restek, Lot A0211460		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00252	04/07/25	03/31/25	Methanol, Lot EJ274	1 mL	MSV_QC_2K_GAS_00296	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00296	04/07/25		Restek, Lot A0211460		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_RV1_826_00031	12/26/20	11/30/20	Methanol, Lot DZ644	1 mL	MSV_V#1B_00127	10 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-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	50 ug/mL
							1-Chlorohexane	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
							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
							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
					MSV_V#2B_00161	10 uL	1,4-Dioxane	2500 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	5000 ug/mL
							Propionitrile	1000 ug/mL
					MSV_V#4C_00107	10 uL	trans-1,4-Dichloro-2-butene	500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							Benzyl chloride	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butadiene	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
							Isopropyl ether	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							n-Heptane	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					MSV_V_VOA2_00060	150 uL	1,4-Dioxane	2500 ug/mL
					2-Methyl-2-propanol		1000 ug/mL	
					Isobutyl alcohol		2500 ug/mL	
					Methacrylonitrile		500 ug/mL	
					n-Butanol		5000 ug/mL	
					Propionitrile		1000 ug/mL	
					MSV_V_VOA3_00057	100 uL	trans-1,4-Dichloro-2-butene	500 ug/mL
					2-Butanone (MEK)		500 ug/mL	
					2-Hexanone		500 ug/mL	
					2-Nitropropane		500 ug/mL	
					4-Methyl-2-pentanone (MIBK)		500 ug/mL	
					Acetone		500 ug/mL	
					Acrylonitrile		250 ug/mL	
					Tetrahydrofuran		500 ug/mL	
					Acrolein	2500.07 ug/mL		
.MSV_V#1B_00127	12/30/20	Restek, Lot A0158586			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
						1,1,1-Trichloroethane	5000 ug/mL	
						1,1,2,2-Tetrachloroethane	5000 ug/mL	
						1,1,2-Trichloroethane	5000 ug/mL	
						1,1-Dichloroethane	5000 ug/mL	
						1,1-Dichloroethene	5000 ug/mL	
						1,1-Dichloropropene	5000 ug/mL	
						1,2,3-Trichlorobenzene	5000 ug/mL	
						1,2,3-Trichloropropane	5000 ug/mL	
						1,2,4-Trichlorobenzene	5000 ug/mL	
						1,2,4-Trimethylbenzene	5000 ug/mL	
						1,2-Dibromo-3-Chloropropane	5000 ug/mL	
						1,2-Dibromoethane (EDB)	5000 ug/mL	
						1,2-Dichlorobenzene	5000 ug/mL	
						1,2-Dichloroethane	5000 ug/mL	
						1,2-Dichloropropane	5000 ug/mL	
						1,3,5-Trichlorobenzene	5000 ug/mL	
						1,3,5-Trimethylbenzene	5000 ug/mL	
						1,3-Dichlorobenzene	5000 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							1-Chlorohexane	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
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
.MSV_V#2B_00161	12/30/20	Restek, Lot A0159694			(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
.MSV_V#4C_00107	12/30/20	Restek, Lot A0158660			(Purchased Reagent)		trans-1,4-Dichloro-2-butene	12500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2-Dichloro-1,1,2-trifluoroethane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	5000 ug/mL
							Butadiene	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
							Isopropyl ether	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							n-Heptane	5000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
.MSV_V_VOA2_00060	12/30/20	11/30/20	Methanol, Lot DZ644	5 mL	MSV_V#2B_00161	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							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_00161	12/30/20		Restek, Lot A0159694		(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_V_VOA3_00057	12/26/20	11/30/20	Methanol, Lot DZ644	5 mL	MSV_V#3B_00070	1 mL	2-Butanone (MEK)	5000 ug/mL
							2-Hexanone	5000 ug/mL
							2-Nitropropane	5000 ug/mL
							4-Methyl-2-pentanone (MIBK)	5000 ug/mL
							Acetone	5000 ug/mL
							Acrylonitrile	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
..MSV_V#3B_00070	12/30/20		Restek, Lot A0158677		MSV_VACR_00013	1 mL	Acrolein	25000.7 ug/mL
					(Purchased Reagent)		2-Butanone (MEK)	25000 ug/mL
							2-Hexanone	25000 ug/mL
							2-Nitropropane	25000 ug/mL
							4-Methyl-2-pentanone (MIBK)	25000 ug/mL
							Acetone	25000 ug/mL
							Acrylonitrile	12500 ug/mL
							Tetrahydrofuran	25000 ug/mL
..MSV_VACR_00013	12/26/20	10/27/20	Methanol, Lot DX212	10 mL	MSV_VACR_STK_00015	9.067 mL	Acrolein	125004 ug/mL
...MSV_VACR_STK_00015	12/26/20	10/27/20	Methanol, Lot DX212	10 mL	MSV_ACROLEIN_00008	1.462 g	Acrolein	137867 ug/mL
....MSV_ACROLEIN_00008	12/31/20		Chem Service, Lot 10410200		(Purchased Reagent)		Acrolein	0.943 g/g
MSV_RV4_826_00035	12/19/20	11/30/20	Methanol, Lot DZ644	1 mL	MSV_BCE_00018	25 uL	1-Bromo-2-chloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_V_EE_00004	50 uL	Ethyl ether	50.0108 ug/mL
					MSV_V_ETBR_00008	50 uL	Ethyl bromide	49.995 ug/mL
					MSV_V_VOA6_00063	50 uL	1,2,3-Trimethylbenzene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Methyl acetate	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Pentachloroethane	50 ug/mL
.MSV_BCE_00018	12/19/20		Restek, Lot A0149919		(Purchased Reagent)		1-Bromo-2-chloroethane	2000 ug/mL
.MSV_V_EE_00004	04/21/21	10/21/20	Methanol, Lot DX212	100 mL	MSV_EE_MISCSK_00005	1.434 mL	Ethyl ether	1000.22 ug/mL
..MSV_EE_MISCSK_00005	04/21/21	10/21/20	Methanol, Lot DX212	10 mL	MSV_EE_Neat_00003	0.6975 g	Ethyl ether	69750 ug/mL
...MSV_EE_Neat_00003	11/30/21		Chem Service, Lot 7967000		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_ETBR_00008	12/31/20	10/13/20	Methanol, Lot DX212	10 mL	MSV_VETBR_STK_00006	0.495 mL	Ethyl bromide	999.9 ug/mL
..MSV_VETBR_STK_00006	12/31/20	10/13/20	Methanol, Lot DX212	10 mL	MSV_EtBr_Neat_00002	0.202 g	Ethyl bromide	20200 ug/mL
...MSV_EtBr_Neat_00002	12/31/20		Chem Service, Lot 7832000		(Purchased Reagent)		Ethyl bromide	1 g/g
.MSV_V_VOA6_00063	12/25/20	11/25/20	Methanol, Lot DZ644	5 mL	MSV_V#6_00046	1 mL	1,2,3-Trimethylbenzene	1000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Methyl acetate	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							Pentachloroethane	1000 ug/mL
..MSV_V#6_00046	12/25/20		Restek, Lot A0158625		(Purchased Reagent)		1,2,3-Trimethylbenzene	5000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Methyl acetate	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							Pentachloroethane	5000 ug/mL
MSV_RV4GAS826_00097	12/07/20	11/30/20	Methanol, Lot DZ644	1 mL	MSV_DCFM_00030	25 uL	Dichlorofluoromethane	50 ug/mL
					MSV_V_Gas_00176	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
.MSV_DCFM_00030	12/19/20		AccuStandard, Lot 220101035		(Purchased Reagent)		Vinyl chloride	50 ug/mL
.MSV_V_Gas_00176	12/07/20		Restek, Lot A0159812		(Purchased Reagent)		Dichlorofluoromethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_V_BFB_00003							1,2-Dichloroethene, Total	
							1,3-Dichlorobutene-2 (total)	
							1,3-Dichloropropene, Total	
							divinyl benzene	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tentatively Identified Compound	
							Total BTEX	
							Total Diethylbenzene	
							Xylenes, Total	
					MSV_VBFB_STK_00004	0.117 mL	BFB	50.0245 ug/mL
.MSV_VBFB_STK_00004	01/22/21	07/22/20	Methanol, Lot DX212	10 mL	MSV_4BFB_NEAT_00002	1.0689 g	BFB	106890 ug/mL
..MSV_4BFB_NEAT_00002	01/31/21	Chem Service, Lot 8601300			(Purchased Reagent)		BFB	1 g/g
MSV_V_BFB_00018							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00013	0.09 mL	BFB	50.076 ug/mL
.MSV_VBFB_STK_00013	05/31/25	12/02/24	Methanol, Lot EH471	10 mL	MSV_4BFB_NEAT_00012	1.391 g	BFB	139100 ug/mL
..MSV_4BFB_NEAT_00012	05/31/25	Chem Service, Lot 15267000			(Purchased Reagent)		BFB	1 g/g

Reagent

MSV_4BFB_NEAT_00002

CERTIFICATE OF ANALYSIS

4-Bromofluorobenzene

CATALOG NUMBER N-10809-1G
LOT NUMBER 8601300
DATE CERTIFIED 01/06/16
EXPIRATION DATE 01/31/21
CAS NUMBER 460-00-4
MOLECULAR FORMULA C₆H₄BrF
MOLECULAR WEIGHT 175.00
STORAGE Store in a cool dry place.
HANDLING See Safety Data Sheet
INTENDED USE For laboratory use only.
ISO GUIDE 34 CERTIFIED []

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

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

Certified By:

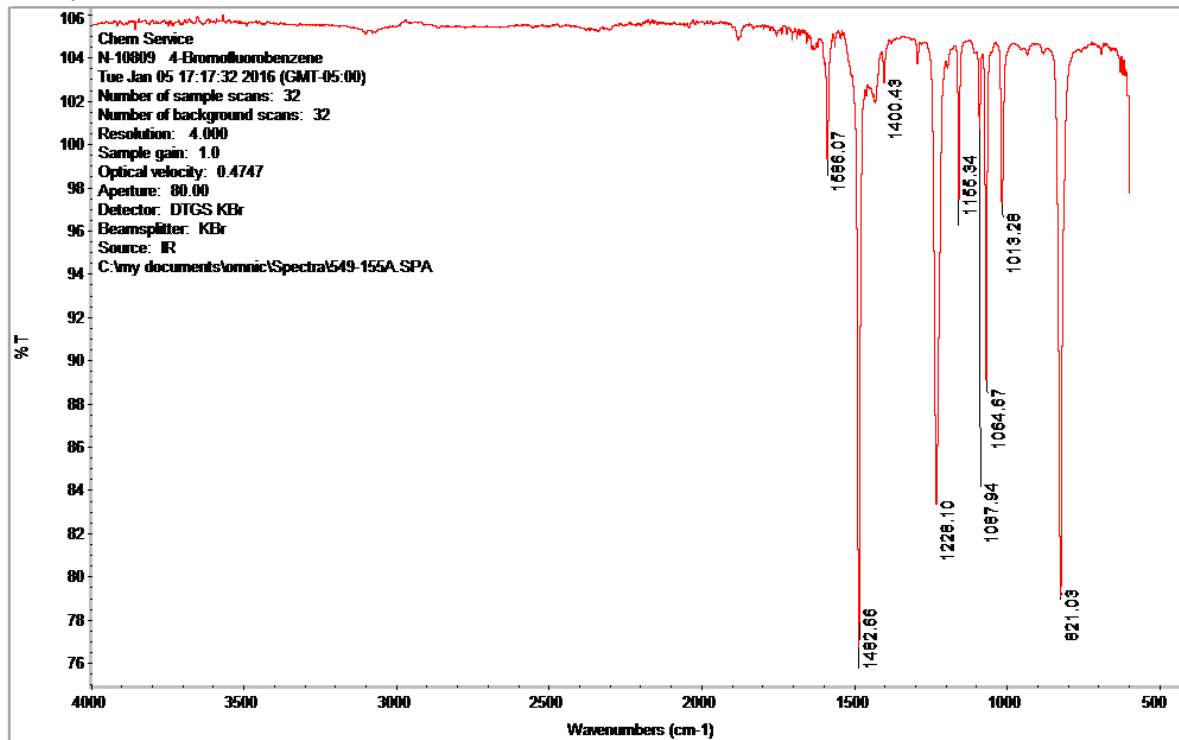
Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

CERTIFICATE OF ANALYSIS

Analysis Method: FTIR- Spectroscopy

Catalog Number: N-10809-1G
Description: 4-Bromofluorobenzene
Lot Number: 8601300
Expiration Date: 01/31/21



660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-10809-1G
Description:	4-Bromofluorobenzene
Lot Number:	8601300
Expiration Date:	01/31/21

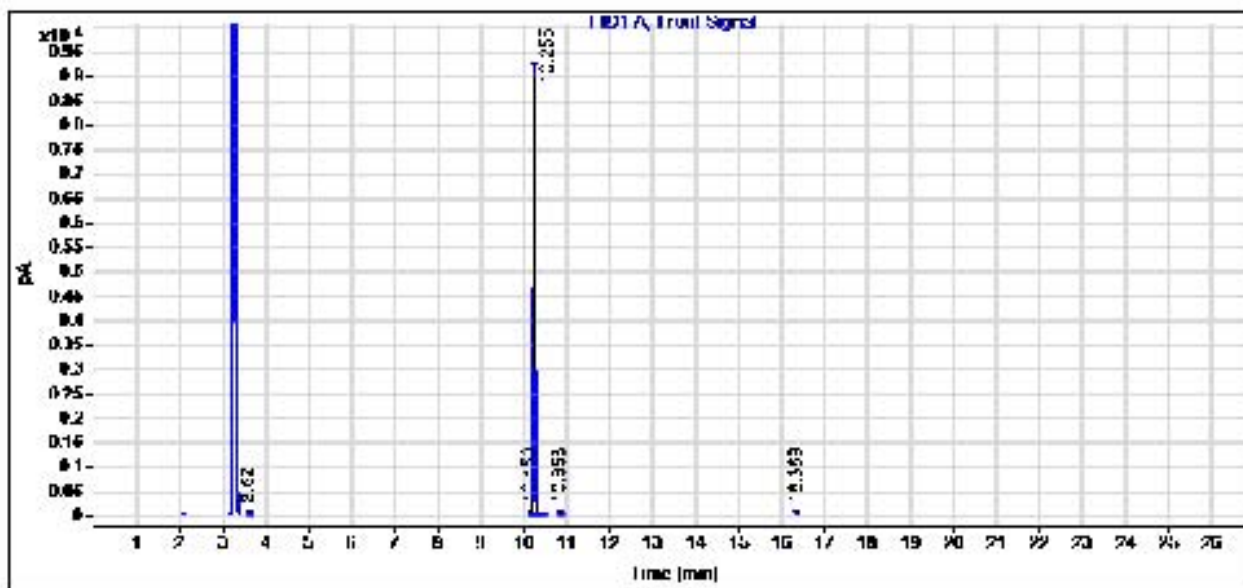
Chem Service, Inc. is accredited to ISO Guide 34:2009, ISO/IEC 17025:2005 and certified to ISO 9001:2008



CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\1215\SIG1007347.D
Sample name: N-10809/CH₂CL₂
Instrument: GC 1 **Sample type:** Sample
Injection date: 1/5/2016 4:20:37 PM **Location:** Vial 5
Acq. method: MIX1.M **Injection volume:** 1.0uL
Column name: DB-624 (30m x 0.53mm x 3.0um)



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
3.620	BB	0.0403	3.8748	1.1723	0.0145
10.156	BV	0.0195	0.7424	0.4869	0.0028
10.255	VB S	0.0437	26687.6328	9172.4229	99.7795
10.853	BB	0.0583	54.3345	12.3602	0.2031
16.369	BB	0.0034	0.0123	0.0605	0.0000
Sum			26746.5968		

Reagent

MSV_8260_SS_00263



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. : 55671 **Lot No.:** A0146938

Description : 8260A Surrogate Mix

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

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

Expiration Date : March 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dibromofluoromethane CAS # 1868-53-7 (Lot 0012016) Purity 99%	2,505.2 µg/mL	+/- 14.5653 µg/mL Gravimetric +/- 140.4622 µg/mL Unstressed +/- 143.7488 µg/mL Stressed
2	1,2-Dichloroethane-d4 CAS # 17060-07-0 (Lot PR-26748) Purity 99%	2,517.2 µg/mL	+/- 14.6350 µg/mL Gravimetric +/- 141.1350 µg/mL Unstressed +/- 144.4374 µg/mL Stressed
3	Toluene-d8 CAS # 2037-26-5 (Lot PR-27311) Purity 99%	2,507.7 µg/mL	+/- 14.5798 µg/mL Gravimetric +/- 140.6024 µg/mL Unstressed +/- 143.8923 µg/mL Stressed
4	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 (Lot 20401KO) Purity 99%	2,507.7 µg/mL	+/- 14.5798 µg/mL Gravimetric +/- 140.6024 µg/mL Unstressed +/- 143.8923 µg/mL Stressed

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

Column:

105m x 0.53mm x 3.0µm
Rtx-S02.2 (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:

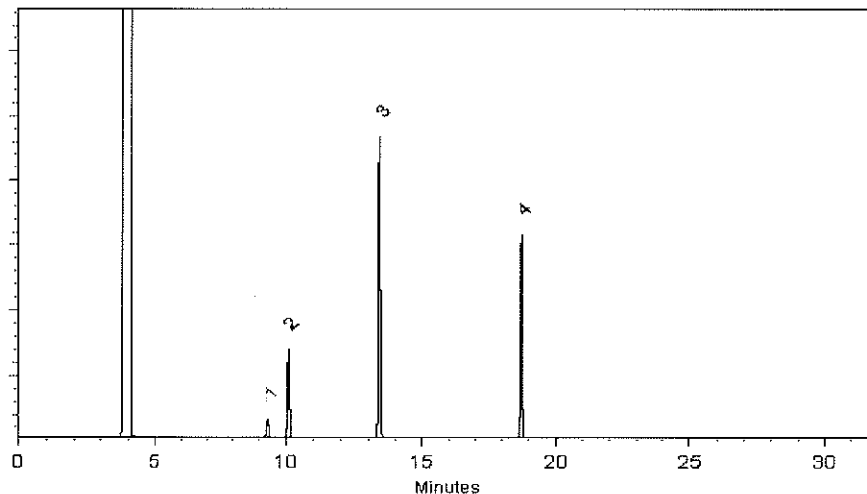
200°C

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.

Maggie Wang

Maggie Wang - Operations Technician I

Date Mixed: 12-Mar-2019

Balance: 1128342314

Jennifer I Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 15-Mar-2019

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

Reagent

MSV_8260_SS_01300



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30240 **Lot No.:** A0209669
Description : 8260A Surrogate Mix
8260A Surrogate Mix 2,500µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dibromofluoromethane	1868-53-7	022013	99%	2,508.3 µg/mL	+/- 140.9026
2	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	2,520.3 µg/mL	+/- 141.5767
3	Toluene-d8	2037-26-5	PR-34141	99%	2,518.3 µg/mL	+/- 141.4644
4	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000194533	99%	2,517.0 µg/mL	+/- 141.3941

* 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:

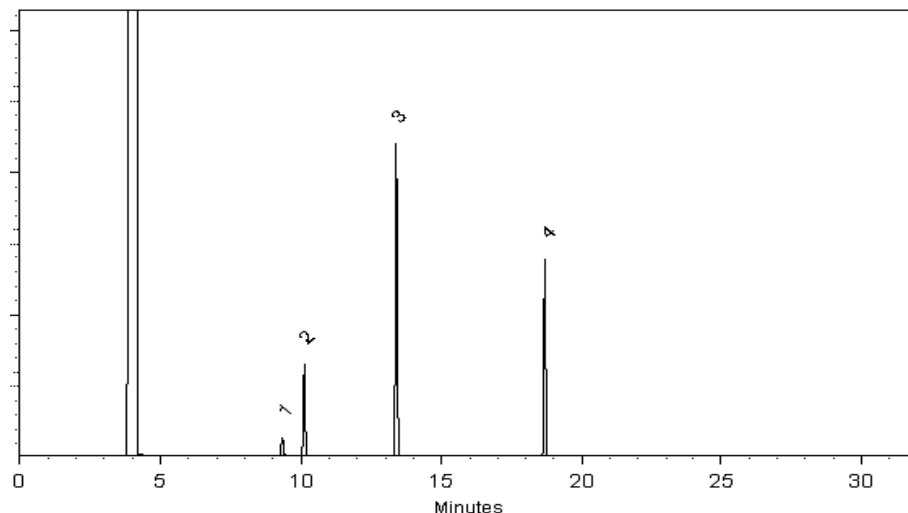
FID

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.

Ethan Winiarski - Operations Tech I

Date Mixed: 01-Apr-2024

Balance Serial # 1128342314

Dillan Murphy - Operations Technician I

Date Passed: 03-Apr-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_ACROLEIN_00008



660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Acrolein

CATALOG NUMBER	RPN-11030-1G
LOT NUMBER	10410200
DATE CERTIFIED	12/06/19
EXPIRATION DATE	12/31/20
CAS NUMBER	107-02-8
MOLECULAR FORMULA	C ₃ H ₄ O
MOLECULAR WEIGHT	56.06
STORAGE	Refrigerator storage (2 - 8 °C)
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.
NOTES	Contains water and hydroquinone as an inhibitor.

Analytical Test	Value
% PURITY (GC/TCD)	94.3
% WATER (KARL FISCHER)	1.9

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

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

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

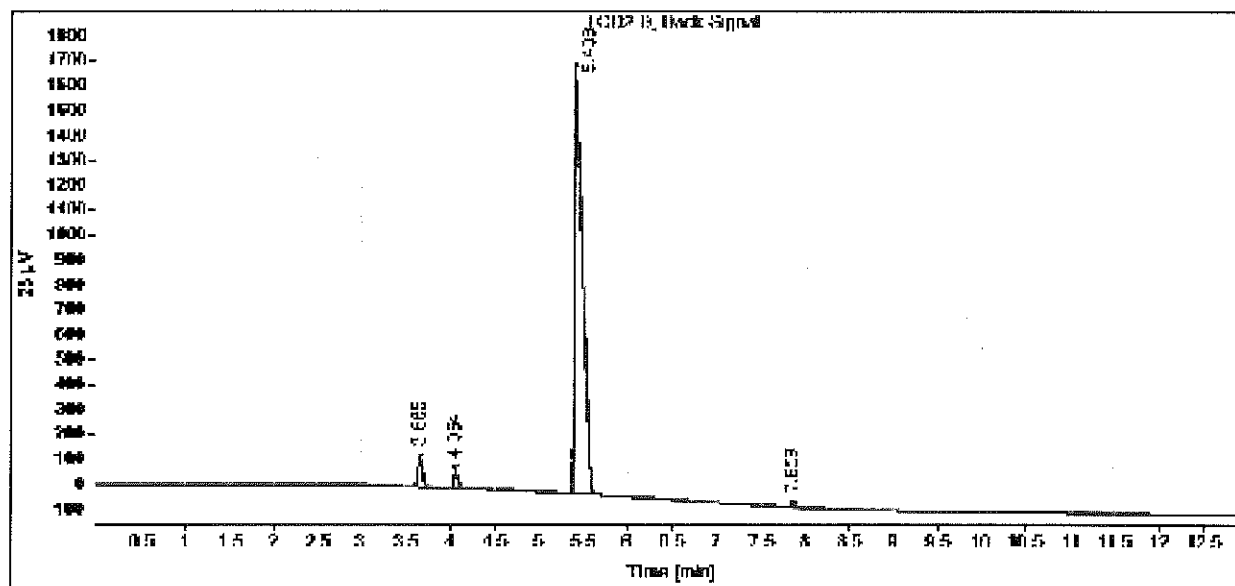


COA Form
Revision 3 (3/2015)

CERTIFICATE OF ANALYSIS

Gas Chromatography / Thermal Conductivity Detector (GC/TCD)

Data file: C:\CHEM32\1\DATA\2019 DATA\1219\SIG2022667.D
Sample name: Acrolein
Instrument: GC 1 **Sample type:** Sample
Injection date: 12/6/2019 10:34:12 AM **Location:** Vial 11
Acq. method: GASBOMB_TCD.M **Injection volume:** 1.0uL
Column name: DB-624 (30m x 0.53mm x 3.0um)



Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
3.665	BB	0.0554	405.7875	114.3327	3.5675
4.064	BB	0.0475	217.2787	71.5037	1.9102
5.408	BV	0.0795	10720.3574	1725.8987	94.2472
7.850	BB	0.1249	31.2959	3.7665	0.2751
Sum			11374.7178		



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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	RPN-11030-1G
Description:	Acrolein
Lot Number:	10410200
Expiration Date:	12/31/20

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



Reagent

MSV_BCE_00018



CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30469 Lot No.: A0149919
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 : June 30, 2024 Storage: 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1-Bromo-2-chloroethane CAS # 107-04-0 (Lot BCBQ8054V) Purity 99%	2,006.0 µg/mL	+/- 11.7723 µg/mL Gravimetric +/- 112.4858 µg/mL Unstressed +/- 115.1173 µg/mL Stressed

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

Column:

105m x 0.53mm x 3.0µm
Rtx-S02.2 (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:

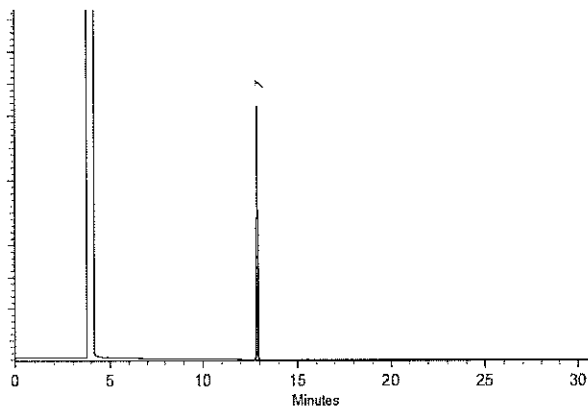
200°C

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.

Jessica McClenahan

Jessica McClenahan - Operations Technician I

Date Mixed: 07-Jun-2019

Balance: B251644995

Justin Albertson
Justin Albertson - Operations Tech-ARM QG

Date Passed: 10-Jun-2019

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

Reagent

MSV_BCE_00073



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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:

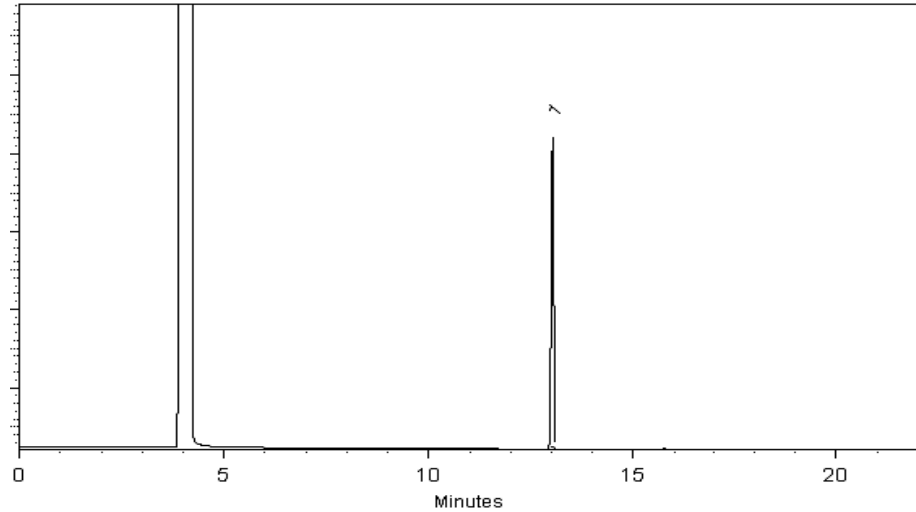
FID

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_CCV_GASES_00930



110 Benner Circle
Bellefonte, PA 16823-8812
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

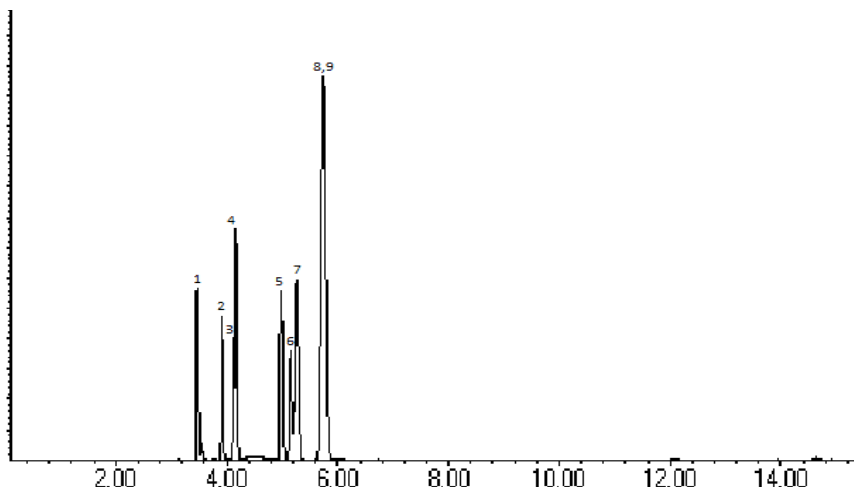
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



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

Brittany Federinko - Operations Tech I

Date Mixed: 28-May-2024

Balance Serial # B251644995

Dillan Murphy - Operations Technician I

Date Passed: 03-Jun-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_CCV_GASES_00998



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

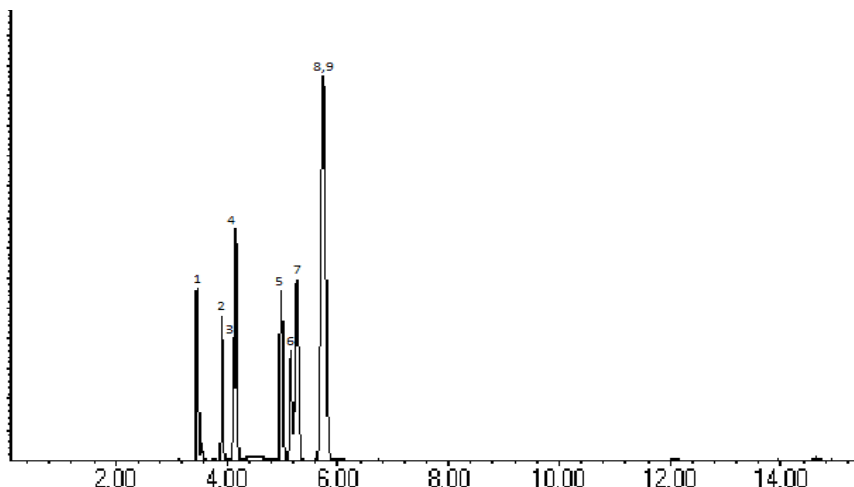
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



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

Brittany Federinko - Operations Tech I

Date Mixed: 28-May-2024

Balance Serial # B251644995

Dillan Murphy - Operations Technician I

Date Passed: 03-Jun-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_Cus826_IS_00151



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



ISO 17034 Accredited
 Reference Material Producer
 Certificate #3222.01



ISO/IEC 17025 Accredited
 Testing Laboratory
 Certificate #3222.02

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.: A0138205
 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 : May 31, 2021 Storage: 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butyl Alcohol-d10 CAS # 53001-22-2 (Lot PR-29485) Purity 98%	12,613.8 µg/mL	+/- 73.3376 µg/mL +/- 270.0624 µg/mL +/- 277.9136 µg/mL	Gravimetric Unstressed Stressed
2	Fluorobenzene CAS # 462-06-6 (Lot BCBK8171V) Purity 99%	2,517.8 µg/mL	+/- 14.6387 µg/mL +/- 53.9064 µg/mL +/- 55.4736 µg/mL	Gravimetric Unstressed Stressed
3	Chlorobenzene-d5 CAS # 3114-55-4 (Lot PR-22736) Purity 99%	2,518.8 µg/mL	+/- 14.6445 µg/mL +/- 53.9278 µg/mL +/- 55.4956 µg/mL	Gravimetric Unstressed Stressed
4	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 (Lot PR-18488) Purity 99%	2,511.0 µg/mL	+/- 14.5992 µg/mL +/- 53.7608 µg/mL +/- 55.3237 µg/mL	Gravimetric Unstressed 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:

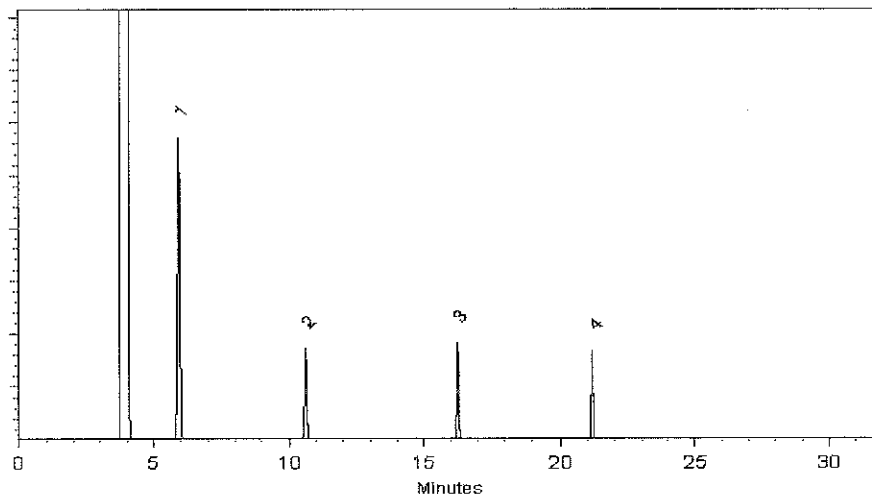
200°C

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.

Tom Suckar - Mix Technician

Date Mixed: 21-May-2018

Balance: 1128342314

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 23-May-2018

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

Reagent

MSV_Cus826_IS_00687



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.:** A0203141

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 : October 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	2-Methyl-2-propanol-d10	53001-22-2	PR-29961	99%	12,504.0 µg/mL	+/- 155.5359
2	Fluorobenzene	462-06-6	BCBZ5549	99%	2,503.5 µg/mL	+/- 31.1565
3	Chlorobenzene-d5	3114-55-4	PR-29571	99%	2,502.0 µg/mL	+/- 31.1378
4	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,504.5 µg/mL	+/- 31.1689

* 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:

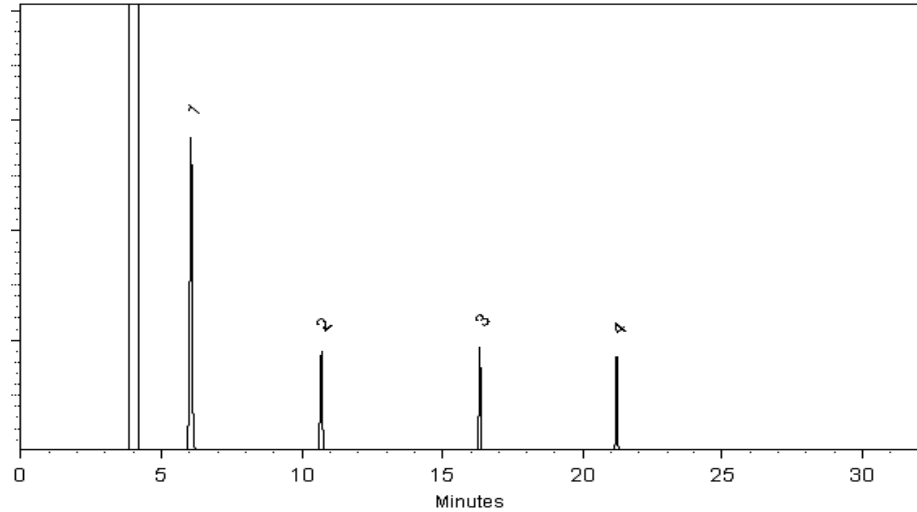
FID

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.


Laith Clemente - Operations Technician I

Date Mixed: 13-Oct-2023

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 18-Oct-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_Cus826_IS_00695



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.:** A0203141

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 : October 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	2-Methyl-2-propanol-d10	53001-22-2	PR-29961	99%	12,504.0 µg/mL	+/- 155.5359
2	Fluorobenzene	462-06-6	BCBZ5549	99%	2,503.5 µg/mL	+/- 31.1565
3	Chlorobenzene-d5	3114-55-4	PR-29571	99%	2,502.0 µg/mL	+/- 31.1378
4	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,504.5 µg/mL	+/- 31.1689

* 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:

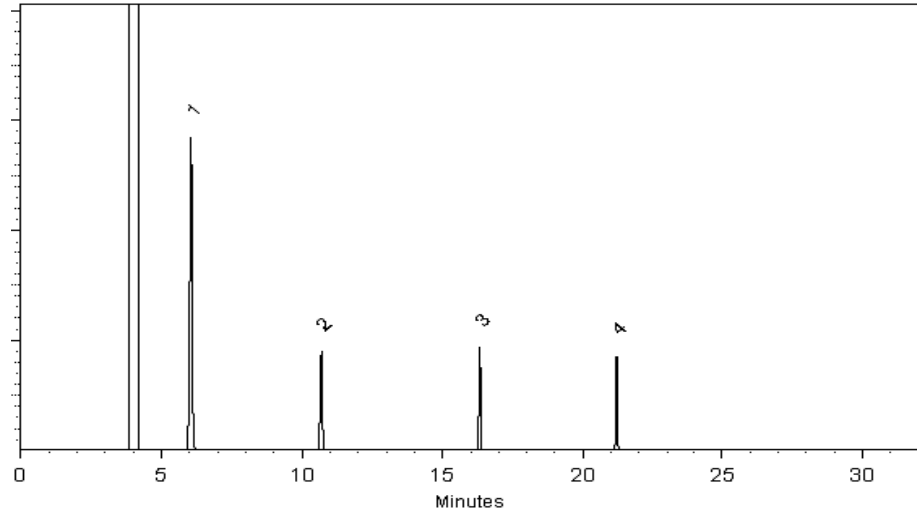
FID

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.


Laith Clemente - Operations Technician I

Date Mixed: 13-Oct-2023

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 18-Oct-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- 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:

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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_DCFM_00030



CERTIFICATE OF ANALYSIS

Catalog No: M-502-61-10X

Description: Dichlorofluoromethane

Lot: 220101035

Solvent: Methanol

Hazards: Refer to SDS for complete safety information

Date Certified: Oct 6, 2020

Expiration: Oct 6, 2030

Sample Size: 1 mL

Components: 1

Storage Condition: Refriger (0-5 °C)



Signal Word: Danger

Certified Reference Material



Component	CAS #	Purity % (GC/MS)	Prepared Concentration ² (µg/mL)	Certified Analyte Concentration ¹ (µg/mL)
Dichlorofluoromethane	75-43-4	98.0	2006	1966

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is $\pm 2.4\%$. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager

1. Quality Standards:

ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

ISO 9001:2015 – Quality Management System – Requirements
Eagle Registrations Certificate Number 3774

- 2. Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.
- 3. Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.
- 4. Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.
- 5. Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label
- 6. Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(IV))^2 + (u(RO))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.
- 7. Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

Reagent

MSV_EE_Neat_00003

CERTIFICATE OF ANALYSIS

Ethyl ether

CATALOG NUMBER N-11897-1G
LOT NUMBER 7967000
DATE CERTIFIED 11/16/18
EXPIRATION DATE 11/30/21
CAS NUMBER 60-29-7
MOLECULAR FORMULA C₄H₁₀O
MOLECULAR WEIGHT 74.12
STORAGE Store under refrigeration.
HANDLING See Safety Data Sheet
INTENDED USE For laboratory use only.
ISO GUIDE 34 CERTIFIED []

Analytical Test	Value
% PURITY (GC/TCD)	99.5

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

Certified By:

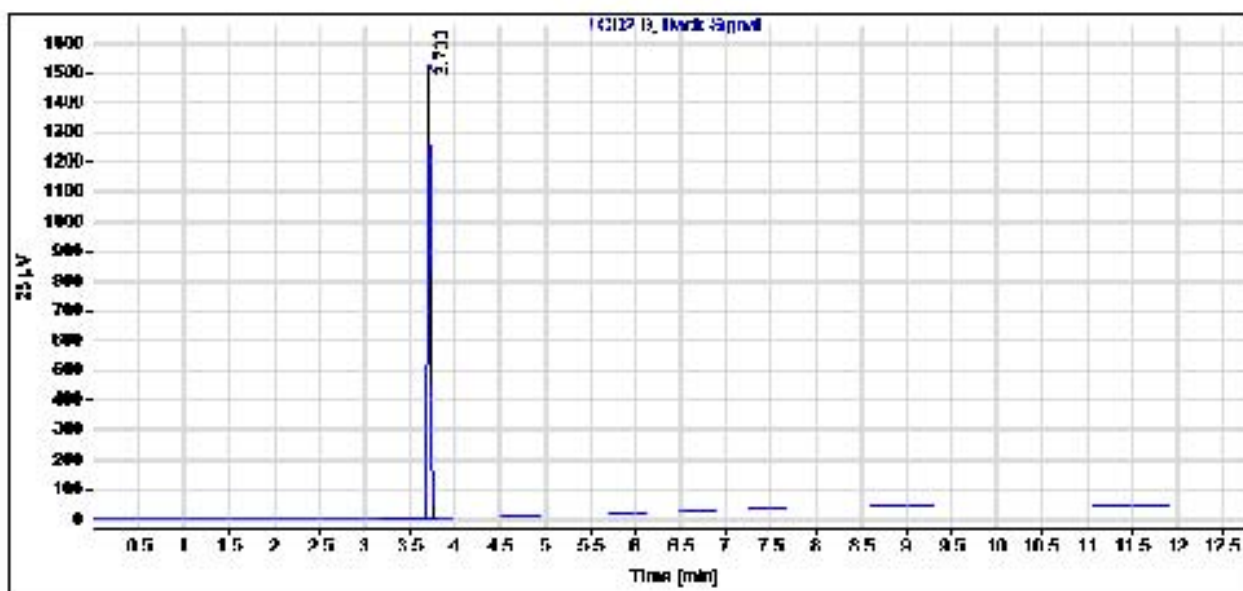
Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

CERTIFICATE OF ANALYSIS

Gas Chromatography / Thermal Conductivity Detector (GC/TCD)

Data file: C:\CHEM32\1\DATA\2018 DATA\1118\SIG2080873.D
Sample name: Ethyl ether
Instrument: GC 1
Injection date: 11/16/2018 10:06:22 AM
Acq. method: TCD_M
Column name: DB-624 (30m x 0.53mm x 3.0um)
Sample type: Sample
Location: Vial 1
Injection volume: 1.0uL



Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
3.708	BV	0.0361	3473.9382	1497.5255	100.0000
Sum			3473.9382		

Reagent

MSV_EE_Neat_00012

CERTIFICATE OF ANALYSIS

Ethyl ether

CATALOG NUMBER	N-11897-1G
LOT NUMBER	14084700
DATE CERTIFIED	06/08/22
EXPIRATION DATE	06/30/27
CAS NUMBER	60-29-7
MOLECULAR FORMULA	C ₄ H ₁₀ O
MOLECULAR WEIGHT	74.12
STORAGE	Refrigerator storage (2 - 8 °C)
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

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

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

Certified By:



Kristin R Jones

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



COA Form
Revision 3 (3/2015)

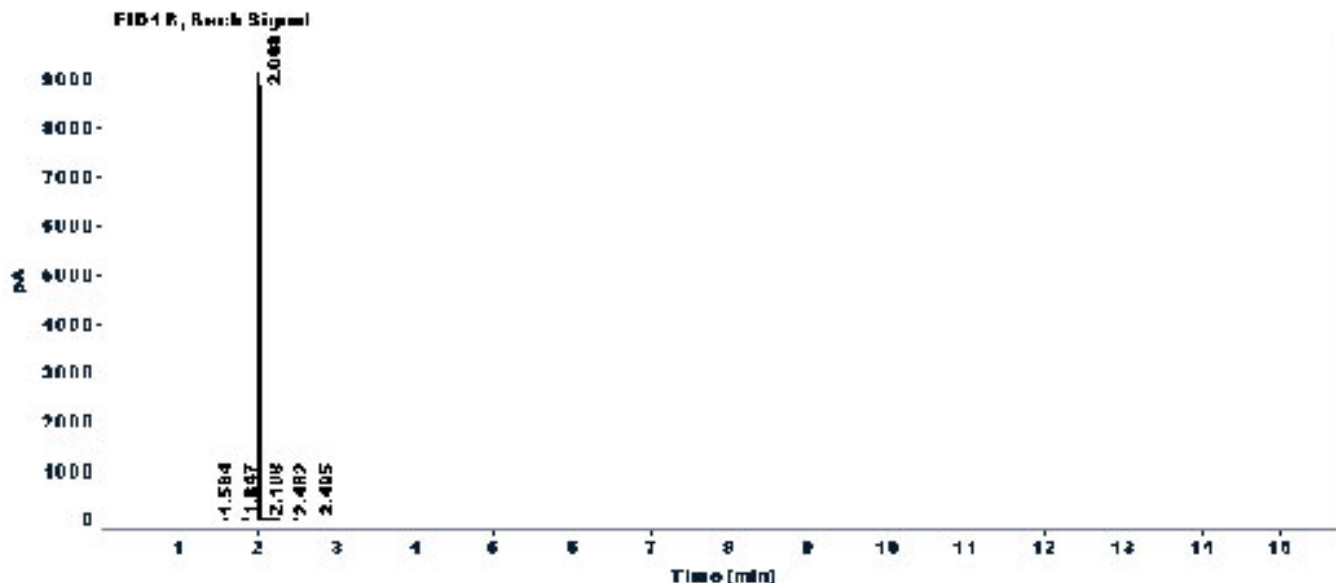
Print Date: 02/02/23

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2022 DATA\0622\ethyl ether.D
 Sample name: Ethyl ether
 Acq. method: FRANNY-BACK.M
 Instrument: GC3
 Injection date: 6/8/2022 12:35:47 PM
 Column name: RTX-5MS (30m x 0.25mm x 0.5µm)

Location: 205
 Injection Vol: 0.100
 # Of Injections: 1



Signal: FID1 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
1.584	BB	0.0118	2.2881	3.0236	0.0324
1.847	BB	0.0128	3.4389	4.5659	0.0487
2.008	VB S	0.0123	7054.1309	8866.6377	99.8684
2.108	BB T	0.0124	0.6178	0.7662	0.0087
2.462	BV	0.0173	1.5205	1.4371	0.0215
2.495	VB	0.0170	1.4321	1.3951	0.0203
Sum			7063.4283		

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



Reagent

MSV_EtBr_00010

CERTIFICATE OF ANALYSIS

Ethyl bromide

CATALOG NUMBER	N-11888-1G
LOT NUMBER	13345600
DATE CERTIFIED	06/15/22
EXPIRATION DATE	06/30/25
CAS NUMBER	74-96-4
MOLECULAR FORMULA	C ₂ H ₅ Br
MOLECULAR WEIGHT	108.97
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

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

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

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

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



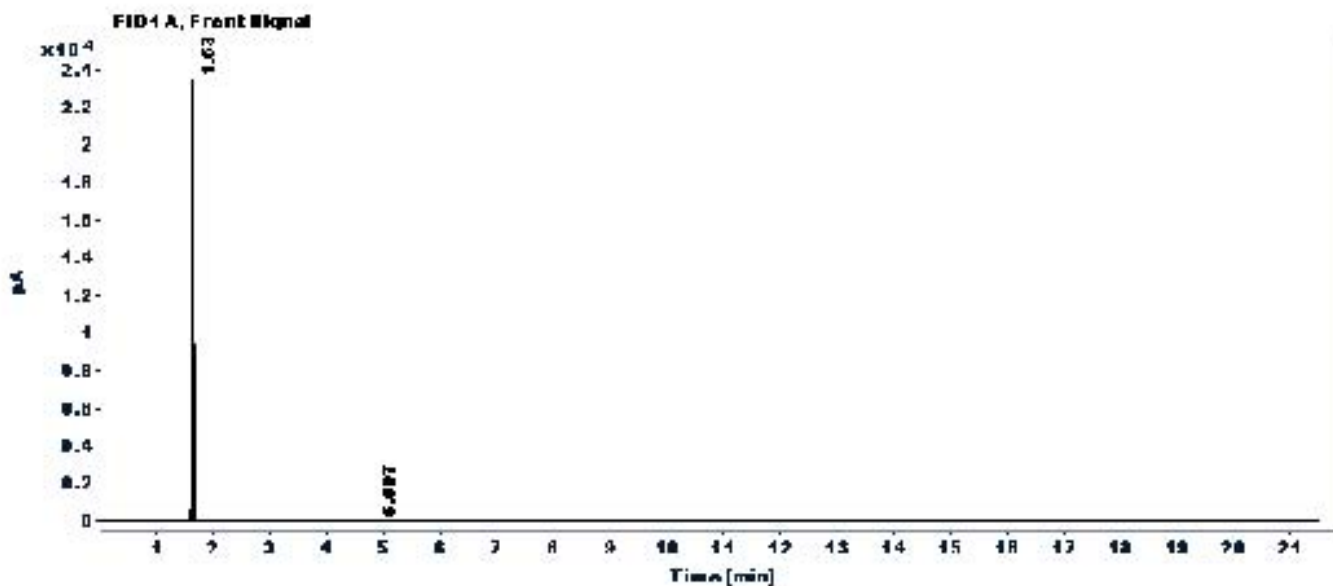
COA Form
Revision 3 (3/2015)

Print Date: 06/17/22

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\Chem32\1\Data\2022 Data\0622\ethyl bromide.D
 Sample name: Ethyl bromide
 Acq. method: FRONT MIX.M
 Instrument: GC3
 Injection date: 6/15/2022 2:26:35 PM
 Column name: Rxi-624Sil MS(30m x 0.32mm ID, 1.8um)
 Location: 103
 Injection Vol: 0.200
 # Of Injections: 1



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
1.630	BB S	0.0235	34777.1563	23544.8711	99.8457
5.097	VV R	0.0334	53.7284	24.9837	0.1543
Sum			34830.8846		

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



Reagent

MSV_EtBr_Neat_00002



660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Ethyl bromide

CATALOG NUMBER	N-11888-1G
LOT NUMBER	7832000
DATE CERTIFIED	12/01/17
EXPIRATION DATE	12/31/20
CAS NUMBER	74-96-4
MOLECULAR FORMULA	C ₂ H ₅ Br
MOLECULAR WEIGHT	108.97
STORAGE	Store in a cool dry place.
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
% PURITY (GC/FID)	99.5

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

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

Chem Service, Inc. is accredited to ISO Guide 34:2009, ISO/IEC 17025:2005 and certified to ISO 9001:2008



ISO/IEC 17025
Accreditation Number: 63320



ISO GUIDE 34
Accreditation Number: 63520

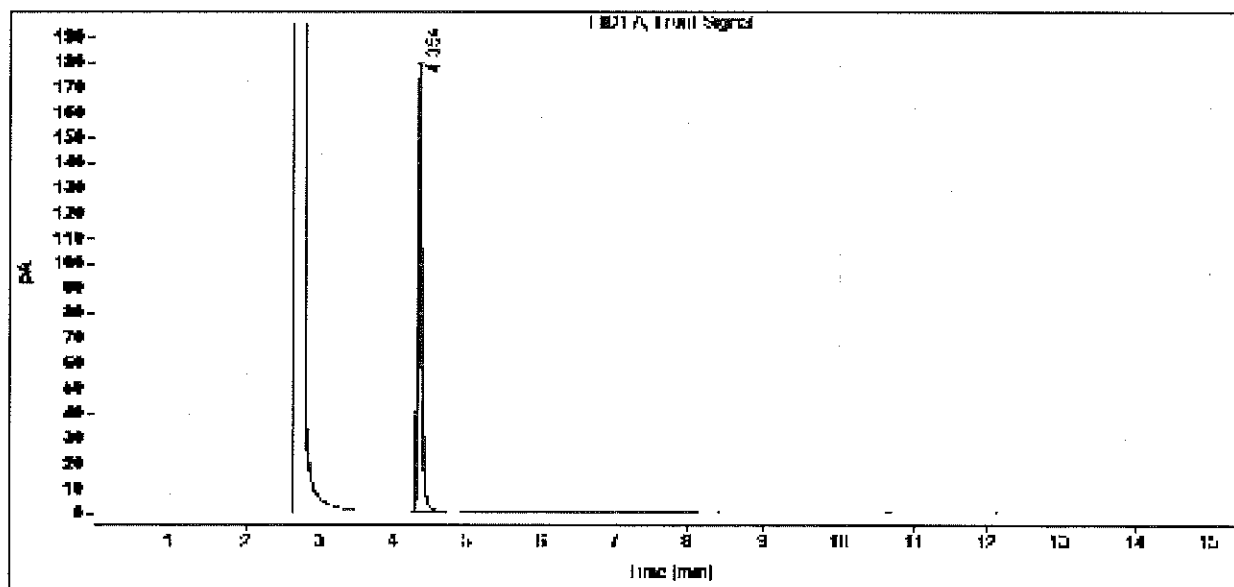
COA Form
Revision 3 (3/2015)

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CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

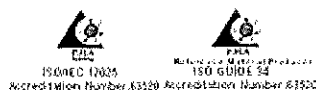
Data file:	C:\CHEM32\1\DATA\2017 DATA\1117\SIG1009529.D		
Sample name:	Bromoethane		
Instrument:	GC 1	Sample type:	Sample
Injection date:	12/1/2017 9:30:43 AM	Location:	Vial 21
Acq. method:	MIX1.M	Injection volume:	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
4.354	BB	0.0547	648.4102	176.9945	100.0000
Sum			648.4102		

Chem Service, Inc. is accredited to ISO Guide 34:2009, ISO/IEC 17025:2005 and certified to ISO 9001:2008



Reagent

MSV_MegaMIX#1_00211



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.:** A0211483

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,1-dichloroethene	75-35-4	SHBG8609V	99%	5,038.8 µg/mL	+/- 283.8004
2	Methylene chloride (dichloromethane)	75-09-2	231383	99%	5,013.9 µg/mL	+/- 282.3994
3	trans-1,2-Dichloroethene	156-60-5	MKCP9516	99%	5,020.8 µg/mL	+/- 282.7901
4	1,1-Dichloroethane	75-34-3	852900	99%	5,007.1 µg/mL	+/- 282.0157
5	2,2-Dichloropropane	594-20-7	RP231114CTH	99%	5,045.8 µg/mL	+/- 284.2162
6	cis-1,2-Dichloroethene	156-59-2	MKCP7830	99%	5,049.3 µg/mL	+/- 284.4180
7	chloroform	67-66-3	SHBN8469	99%	5,032.5 µg/mL	+/- 283.4484
8	Bromochloromethane	74-97-5	S231117RSR	99%	5,043.2 µg/mL	+/- 284.0707
9	1,1,1-trichloroethane	71-55-6	RD230728RSR	99%	5,043.7 µg/mL	+/- 284.0785
10	1,1-Dichloropropene	563-58-6	S240215ECS	99%	5,045.2 µg/mL	+/- 284.1833
11	carbon tetrachloride	56-23-5	SHBP4875	99%	5,042.8 µg/mL	+/- 284.0292
12	1,2-Dichloroethane	107-06-2	SHBQ5408	99%	5,007.8 µg/mL	+/- 282.0579
13	Benzene	71-43-2	MKCS3357	99%	5,011.2 µg/mL	+/- 282.2682
14	Trichloroethene	79-01-6	SHBQ6161	99%	5,019.9 µg/mL	+/- 282.7408
15	1,2-Dichloropropane	78-87-5	BCBR0882V	99%	5,041.1 µg/mL	+/- 283.9307
16	bromodichloromethane	75-27-4	MKCF8470	99%	5,014.1 µg/mL	+/- 282.4134

17	Dibromomethane	74-95-3	107151T06C	99%	5,019.6	µg/mL	+/-	282.7423
18	cis-1,3-Dichloropropene	10061-01-5	RP231025CTH	99%	5,036.1	µg/mL	+/-	283.6490
19	Toluene	108-88-3	MKCS9989	99%	5,027.9	µg/mL	+/-	283.2117
20	trans-1,3-Dichloropropene	10061-02-6	RP231025CTH-1	98%	5,002.6	µg/mL	+/-	281.7640
21	1,1,2-Trichloroethane	79-00-5	FGB01	99%	5,010.4	µg/mL	+/-	282.2022
22	1,3-Dichloropropane	142-28-9	BCCH5357	99%	5,043.1	µg/mL	+/-	284.0660
23	Tetrachloroethene	127-18-4	SHBQ0051	99%	5,014.8	µg/mL	+/-	282.4522
24	dibromochloromethane	124-48-1	MKCT4871	99%	5,042.3	µg/mL	+/-	283.9976
25	1,2-Dibromoethane (EDB)	106-93-4	BCCH7113	99%	5,041.7	µg/mL	+/-	283.9862
26	Chlorobenzene	108-90-7	SHBN6640	99%	5,013.3	µg/mL	+/-	282.3642
27	1,1,1,2-Tetrachloroethane	630-20-6	TMWGK	99%	5,025.2	µg/mL	+/-	283.0568
28	Ethylbenzene	100-41-4	094632T20F	99%	5,042.0	µg/mL	+/-	284.0050
29	m-Xylene	108-38-3	SHBN6673	99%	5,042.2	µg/mL	+/-	284.0143
30	p-Xylene	106-42-3	SHBP5191	99%	5,038.1	µg/mL	+/-	283.7843
31	o-Xylene	95-47-6	50069309	99%	5,047.2	µg/mL	+/-	284.2960
32	Styrene	100-42-5	MKCQ3390	99%	5,038.9	µg/mL	+/-	283.8313
33	Isopropylbenzene (cumene)	98-82-8	Z20D022	99%	5,022.8	µg/mL	+/-	282.9253
34	bromoform	75-25-2	050494L04R	99%	5,036.9	µg/mL	+/-	283.6948
35	1,1,2,2-Tetrachloroethane	79-34-5	QQJ4I	99%	5,032.5	µg/mL	+/-	283.4484
36	1,2,3-Trichloropropane	96-18-4	Q91-34	98%	5,042.7	µg/mL	+/-	284.0428
37	n-Propylbenzene	103-65-1	095067T18C	99%	5,028.8	µg/mL	+/-	283.2586
38	Bromobenzene	108-86-1	MKCQ7174	99%	5,026.8	µg/mL	+/-	283.1460
39	1,3,5-Trimethylbenzene	108-67-8	BCCH6852	99%	5,023.1	µg/mL	+/-	282.9394
40	2-Chlorotoluene	95-49-8	235783M23T	99%	5,028.7	µg/mL	+/-	283.2539
41	4-Chlorotoluene	106-43-4	BCCG9286	99%	5,043.9	µg/mL	+/-	284.1129
42	tert-Butylbenzene	98-06-6	STBJ1937	99%	5,047.3	µg/mL	+/-	284.3054
43	1,2,4-Trimethylbenzene	95-63-6	MKCS3775	99%	5,046.3	µg/mL	+/-	284.2490
44	sec-Butylbenzene	135-98-8	MKCP2266	99%	5,044.3	µg/mL	+/-	284.1364
45	p-Isopropyltoluene (p-Cymene)	99-87-6	MKCS1827	99%	5,035.8	µg/mL	+/-	283.6576
46	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	5,034.6	µg/mL	+/-	283.5646
47	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	5,015.5	µg/mL	+/-	282.4909
48	n-Butylbenzene	104-51-8	09418JJ	99%	5,034.7	µg/mL	+/-	283.5919
49	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	5,012.9	µg/mL	+/-	282.3466
50	1,2-Dibromo-3-chloropropane	96-12-8	HBMVB	97%	5,029.4	µg/mL	+/-	283.2935
51	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	5,042.1	µg/mL	+/-	284.0096
52	Hexachlorobutadiene	87-68-3	X05J	99%	5,023.4	µg/mL	+/-	282.9582

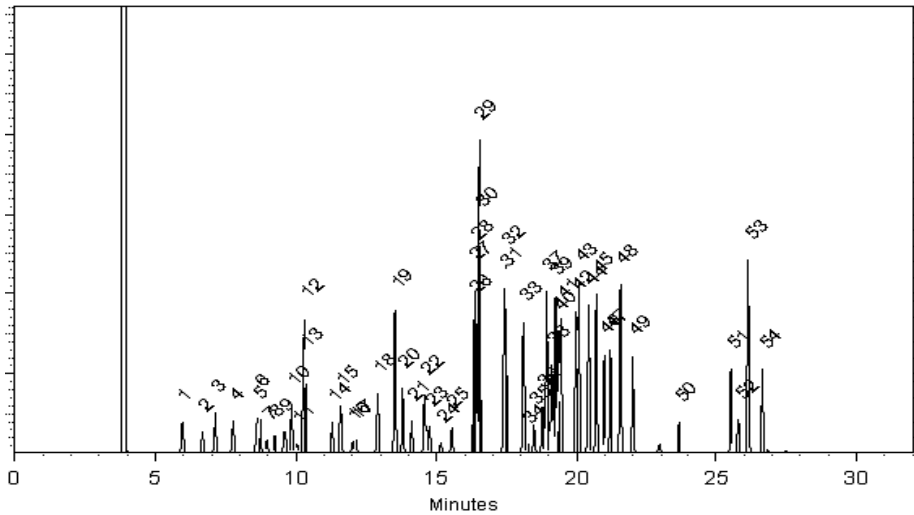
53	Naphthalene	91-20-3	STBL1057	99%	5,008.3	µg/mL	+/- 282.1039
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,037.8	µg/mL	+/- 283.7656

* 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.

Russ Bookhamer
Russ Bookhamer - Operations Technician I

Date Mixed: 15-May-2024 **Balance Serial #** B442140311

Jennifer J. Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00228



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.:** A0211483

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,1-dichloroethene	75-35-4	SHBG8609V	99%	5,038.8 µg/mL	+/- 283.8004
2	Methylene chloride (dichloromethane)	75-09-2	231383	99%	5,013.9 µg/mL	+/- 282.3994
3	trans-1,2-Dichloroethene	156-60-5	MKCP9516	99%	5,020.8 µg/mL	+/- 282.7901
4	1,1-Dichloroethane	75-34-3	852900	99%	5,007.1 µg/mL	+/- 282.0157
5	2,2-Dichloropropane	594-20-7	RP231114CTH	99%	5,045.8 µg/mL	+/- 284.2162
6	cis-1,2-Dichloroethene	156-59-2	MKCP7830	99%	5,049.3 µg/mL	+/- 284.4180
7	chloroform	67-66-3	SHBN8469	99%	5,032.5 µg/mL	+/- 283.4484
8	Bromochloromethane	74-97-5	S231117RSR	99%	5,043.2 µg/mL	+/- 284.0707
9	1,1,1-trichloroethane	71-55-6	RD230728RSR	99%	5,043.7 µg/mL	+/- 284.0785
10	1,1-Dichloropropene	563-58-6	S240215ECS	99%	5,045.2 µg/mL	+/- 284.1833
11	carbon tetrachloride	56-23-5	SHBP4875	99%	5,042.8 µg/mL	+/- 284.0292
12	1,2-Dichloroethane	107-06-2	SHBQ5408	99%	5,007.8 µg/mL	+/- 282.0579
13	Benzene	71-43-2	MKCS3357	99%	5,011.2 µg/mL	+/- 282.2682
14	Trichloroethene	79-01-6	SHBQ6161	99%	5,019.9 µg/mL	+/- 282.7408
15	1,2-Dichloropropane	78-87-5	BCBR0882V	99%	5,041.1 µg/mL	+/- 283.9307
16	bromodichloromethane	75-27-4	MKCF8470	99%	5,014.1 µg/mL	+/- 282.4134

17	Dibromomethane	74-95-3	107151T06C	99%	5,019.6	µg/mL	+/-	282.7423
18	cis-1,3-Dichloropropene	10061-01-5	RP231025CTH	99%	5,036.1	µg/mL	+/-	283.6490
19	Toluene	108-88-3	MKCS9989	99%	5,027.9	µg/mL	+/-	283.2117
20	trans-1,3-Dichloropropene	10061-02-6	RP231025CTH-1	98%	5,002.6	µg/mL	+/-	281.7640
21	1,1,2-Trichloroethane	79-00-5	FGB01	99%	5,010.4	µg/mL	+/-	282.2022
22	1,3-Dichloropropane	142-28-9	BCCH5357	99%	5,043.1	µg/mL	+/-	284.0660
23	Tetrachloroethene	127-18-4	SHBQ0051	99%	5,014.8	µg/mL	+/-	282.4522
24	dibromochloromethane	124-48-1	MKCT4871	99%	5,042.3	µg/mL	+/-	283.9976
25	1,2-Dibromoethane (EDB)	106-93-4	BCCH7113	99%	5,041.7	µg/mL	+/-	283.9862
26	Chlorobenzene	108-90-7	SHBN6640	99%	5,013.3	µg/mL	+/-	282.3642
27	1,1,1,2-Tetrachloroethane	630-20-6	TMWGK	99%	5,025.2	µg/mL	+/-	283.0568
28	Ethylbenzene	100-41-4	094632T20F	99%	5,042.0	µg/mL	+/-	284.0050
29	m-Xylene	108-38-3	SHBN6673	99%	5,042.2	µg/mL	+/-	284.0143
30	p-Xylene	106-42-3	SHBP5191	99%	5,038.1	µg/mL	+/-	283.7843
31	o-Xylene	95-47-6	50069309	99%	5,047.2	µg/mL	+/-	284.2960
32	Styrene	100-42-5	MKCQ3390	99%	5,038.9	µg/mL	+/-	283.8313
33	Isopropylbenzene (cumene)	98-82-8	Z20D022	99%	5,022.8	µg/mL	+/-	282.9253
34	bromoform	75-25-2	050494L04R	99%	5,036.9	µg/mL	+/-	283.6948
35	1,1,2,2-Tetrachloroethane	79-34-5	QQJ4I	99%	5,032.5	µg/mL	+/-	283.4484
36	1,2,3-Trichloropropane	96-18-4	Q91-34	98%	5,042.7	µg/mL	+/-	284.0428
37	n-Propylbenzene	103-65-1	095067T18C	99%	5,028.8	µg/mL	+/-	283.2586
38	Bromobenzene	108-86-1	MKCQ7174	99%	5,026.8	µg/mL	+/-	283.1460
39	1,3,5-Trimethylbenzene	108-67-8	BCCH6852	99%	5,023.1	µg/mL	+/-	282.9394
40	2-Chlorotoluene	95-49-8	235783M23T	99%	5,028.7	µg/mL	+/-	283.2539
41	4-Chlorotoluene	106-43-4	BCCG9286	99%	5,043.9	µg/mL	+/-	284.1129
42	tert-Butylbenzene	98-06-6	STBJ1937	99%	5,047.3	µg/mL	+/-	284.3054
43	1,2,4-Trimethylbenzene	95-63-6	MKCS3775	99%	5,046.3	µg/mL	+/-	284.2490
44	sec-Butylbenzene	135-98-8	MKCP2266	99%	5,044.3	µg/mL	+/-	284.1364
45	p-Isopropyltoluene (p-Cymene)	99-87-6	MKCS1827	99%	5,035.8	µg/mL	+/-	283.6576
46	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	5,034.6	µg/mL	+/-	283.5646
47	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	5,015.5	µg/mL	+/-	282.4909
48	n-Butylbenzene	104-51-8	09418JJ	99%	5,034.7	µg/mL	+/-	283.5919
49	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	5,012.9	µg/mL	+/-	282.3466
50	1,2-Dibromo-3-chloropropane	96-12-8	HBMVB	97%	5,029.4	µg/mL	+/-	283.2935
51	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	5,042.1	µg/mL	+/-	284.0096
52	Hexachlorobutadiene	87-68-3	X05J	99%	5,023.4	µg/mL	+/-	282.9582

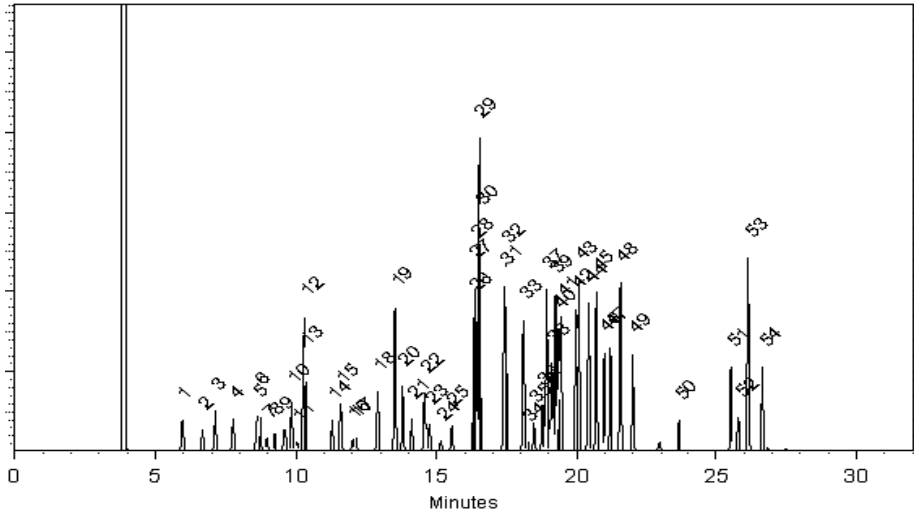
53	Naphthalene	91-20-3	STBL1057	99%	5,008.3	µg/mL	+/- 282.1039
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,037.8	µg/mL	+/- 283.7656

* 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.

Russ Bookhamer
Russ Bookhamer - Operations Technician I

Date Mixed: 15-May-2024 **Balance Serial #** B442140311

Jennifer J. Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00209



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.:** A0212010

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Pentane (C5)	109-66-0	STBK5006	99%	5,041.0 µg/mL	+/- 84.9562
2	2-Propanol (isopropanol)	67-63-0	SHBR1699	99%	25,199.0 µg/mL	+/- 412.0520
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	00009482	99%	5,039.2 µg/mL	+/- 84.9253
4	tert-Butanol (TBA)	75-65-0	SHBQ8002	99%	25,207.0 µg/mL	+/- 412.1828
5	Methyl acetate	79-20-9	SHBP3100	99%	5,037.0 µg/mL	+/- 84.8888
6	Iodomethane (methyl iodide)	74-88-4	RD240405RSR	99%	5,048.3 µg/mL	+/- 85.0798
7	Allyl chloride (3-chloropropene)	107-05-1	RD240221ECS	99%	5,046.7 µg/mL	+/- 85.0517
8	Carbon disulfide	75-15-0	Q30J743	99%	5,036.0 µg/mL	+/- 84.8719
9	Acrylonitrile	107-13-1	MKCN8129	99%	12,598.0 µg/mL	+/- 206.0015
10	Methyl-tert-butyl ether (MTBE)	1634-04-4	SHBQ4873	99%	5,040.7 µg/mL	+/- 84.9506
11	n-Hexane (C6)	110-54-3	102412P22T	99%	5,042.5 µg/mL	+/- 84.9815
12	Diisopropyl ether (DIPE)	108-20-3	STBK8028	99%	5,042.7 µg/mL	+/- 84.9843
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	S240508RSR	99%	5,049.7 µg/mL	+/- 85.1023
14	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCT4522	98%	5,049.9 µg/mL	+/- 85.1069
15	Propionitrile	107-12-0	BCCH7430	99%	25,211.0 µg/mL	+/- 412.2482
16	Methacrylonitrile	126-98-7	1012014	99%	12,613.0 µg/mL	+/- 206.2467

17	Isobutanol (2-Methyl-1-propanol)	78-83-1	SHBR1206	99%	63,123.0	µg/mL	+/- 1,032.1821
18	Tetrahydrofuran	109-99-9	SHBQ8516	99%	25,247.0	µg/mL	+/- 412.8369
19	Cyclohexane	110-82-7	MKCS9749	99%	5,046.2	µg/mL	+/- 85.0433
20	1-Butanol	71-36-3	101601K21K	99%	63,110.0	µg/mL	+/- 1,031.9695
21	tert-Amyl methyl ether (TAME)	994-05-8	HMBJ0825	99%	5,038.5	µg/mL	+/- 84.9141
22	n-Heptane (C7)	142-82-5	044743T03G	99%	5,049.2	µg/mL	+/- 85.0938
23	tert-Amyl ethyl ether (TAEE)	919-94-8	IKVYB	97%	5,038.8	µg/mL	+/- 84.9196
24	Methylcyclohexane	108-87-2	SHBN1699	99%	5,044.8	µg/mL	+/- 85.0208
25	Methyl methacrylate	80-62-6	MKCQ2756	99%	5,048.0	µg/mL	+/- 85.0742
26	1,4-Dioxane	123-91-1	SHBQ2407	99%	63,103.0	µg/mL	+/- 1,031.8550
27	2-Nitropropane	79-46-9	BCCB9352	97%	25,238.4	µg/mL	+/- 412.6967
28	Ethyl methacrylate	97-63-2	MKCN6206	97%	5,046.9	µg/mL	+/- 85.0558
29	1-Chlorohexane	544-10-5	BCBS3368V	99%	5,044.5	µg/mL	+/- 85.0152
30	trans-1,4-dichloro-2-butene	110-57-6	RP240130CTH	98%	12,602.8	µg/mL	+/- 206.0799
31	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	5,043.7	µg/mL	+/- 85.0012
32	1,3-Diethylbenzene	141-93-5	BCBZ6270	99%	5,048.3	µg/mL	+/- 85.0798
33	Benzyl chloride	100-44-7	MKCM5986	99%	5,039.8	µg/mL	+/- 84.9365
34	1,4-Diethylbenzene	105-05-5	1135.72-1	99%	5,048.2	µg/mL	+/- 85.0770
35	1,2-Diethylbenzene	135-01-3	BCCG9282	99%	5,049.3	µg/mL	+/- 85.0967
36	1,3,5-Trichlorobenzene	108-70-3	11319AS	99%	5,046.3	µg/mL	+/- 85.0461
37	2-Methylnaphthalene	91-57-6	STBL3028	99%	5,045.0	µg/mL	+/- 85.0236

* 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:

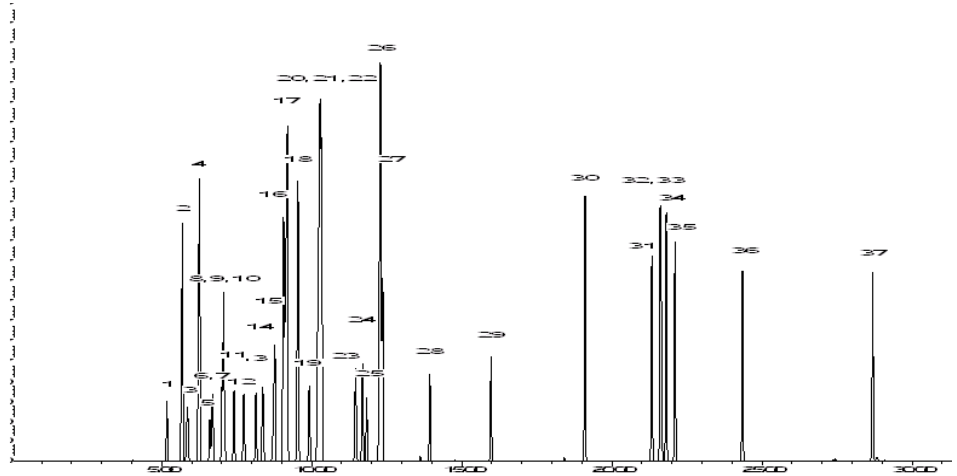
MSD

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.

Brittany Federinko - Operations Tech I

Date Mixed: 24-May-2024

Balance Serial # B251644995

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 30-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00225



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577487 **Lot No.:** A0212010

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Pentane (C5)	109-66-0	STBK5006	99%	5,041.0 µg/mL	+/- 84.9562
2	2-Propanol (isopropanol)	67-63-0	SHBR1699	99%	25,199.0 µg/mL	+/- 412.0520
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	00009482	99%	5,039.2 µg/mL	+/- 84.9253
4	tert-Butanol (TBA)	75-65-0	SHBQ8002	99%	25,207.0 µg/mL	+/- 412.1828
5	Methyl acetate	79-20-9	SHBP3100	99%	5,037.0 µg/mL	+/- 84.8888
6	Iodomethane (methyl iodide)	74-88-4	RD240405RSR	99%	5,048.3 µg/mL	+/- 85.0798
7	Allyl chloride (3-chloropropene)	107-05-1	RD240221ECS	99%	5,046.7 µg/mL	+/- 85.0517
8	Carbon disulfide	75-15-0	Q30J743	99%	5,036.0 µg/mL	+/- 84.8719
9	Acrylonitrile	107-13-1	MKCN8129	99%	12,598.0 µg/mL	+/- 206.0015
10	Methyl-tert-butyl ether (MTBE)	1634-04-4	SHBQ4873	99%	5,040.7 µg/mL	+/- 84.9506
11	n-Hexane (C6)	110-54-3	102412P22T	99%	5,042.5 µg/mL	+/- 84.9815
12	Diisopropyl ether (DIPE)	108-20-3	STBK8028	99%	5,042.7 µg/mL	+/- 84.9843
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	S240508RSR	99%	5,049.7 µg/mL	+/- 85.1023
14	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCT4522	98%	5,049.9 µg/mL	+/- 85.1069
15	Propionitrile	107-12-0	BCCH7430	99%	25,211.0 µg/mL	+/- 412.2482
16	Methacrylonitrile	126-98-7	1012014	99%	12,613.0 µg/mL	+/- 206.2467

17	Isobutanol (2-Methyl-1-propanol)	78-83-1	SHBR1206	99%	63,123.0	µg/mL	+/- 1,032.1821
18	Tetrahydrofuran	109-99-9	SHBQ8516	99%	25,247.0	µg/mL	+/- 412.8369
19	Cyclohexane	110-82-7	MKCS9749	99%	5,046.2	µg/mL	+/- 85.0433
20	1-Butanol	71-36-3	101601K21K	99%	63,110.0	µg/mL	+/- 1,031.9695
21	tert-Amyl methyl ether (TAME)	994-05-8	HMBJ0825	99%	5,038.5	µg/mL	+/- 84.9141
22	n-Heptane (C7)	142-82-5	044743T03G	99%	5,049.2	µg/mL	+/- 85.0938
23	tert-Amyl ethyl ether (TAEE)	919-94-8	IKVYB	97%	5,038.8	µg/mL	+/- 84.9196
24	Methylcyclohexane	108-87-2	SHBN1699	99%	5,044.8	µg/mL	+/- 85.0208
25	Methyl methacrylate	80-62-6	MKCQ2756	99%	5,048.0	µg/mL	+/- 85.0742
26	1,4-Dioxane	123-91-1	SHBQ2407	99%	63,103.0	µg/mL	+/- 1,031.8550
27	2-Nitropropane	79-46-9	BCCB9352	97%	25,238.4	µg/mL	+/- 412.6967
28	Ethyl methacrylate	97-63-2	MKCN6206	97%	5,046.9	µg/mL	+/- 85.0558
29	1-Chlorohexane	544-10-5	BCBS3368V	99%	5,044.5	µg/mL	+/- 85.0152
30	trans-1,4-dichloro-2-butene	110-57-6	RP240130CTH	98%	12,602.8	µg/mL	+/- 206.0799
31	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	5,043.7	µg/mL	+/- 85.0012
32	1,3-Diethylbenzene	141-93-5	BCBZ6270	99%	5,048.3	µg/mL	+/- 85.0798
33	Benzyl chloride	100-44-7	MKCM5986	99%	5,039.8	µg/mL	+/- 84.9365
34	1,4-Diethylbenzene	105-05-5	1135.72-1	99%	5,048.2	µg/mL	+/- 85.0770
35	1,2-Diethylbenzene	135-01-3	BCCG9282	99%	5,049.3	µg/mL	+/- 85.0967
36	1,3,5-Trichlorobenzene	108-70-3	11319AS	99%	5,046.3	µg/mL	+/- 85.0461
37	2-Methylnaphthalene	91-57-6	STBL3028	99%	5,045.0	µg/mL	+/- 85.0236

* 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:

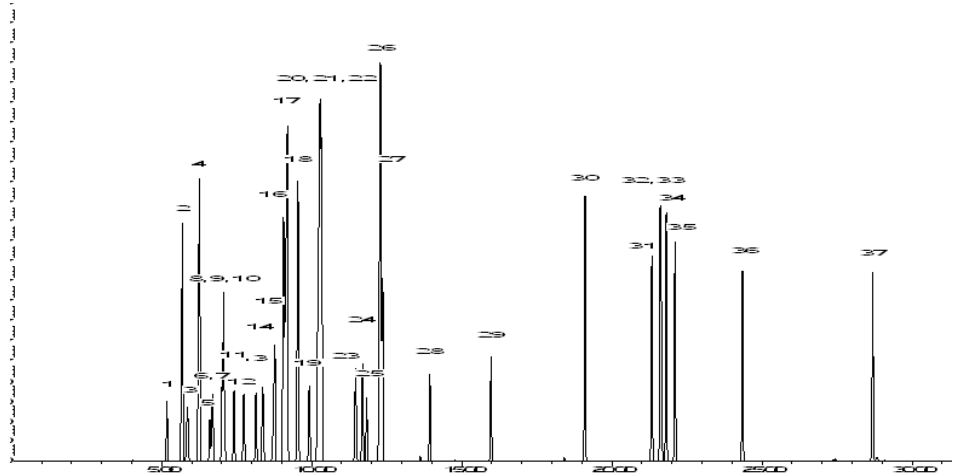
MSD

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.

Brittany Federinko - Operations Tech I

Date Mixed: 24-May-2024

Balance Serial # B251644995

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 30-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_QC_2K_GAS_00279



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488.SEC **Lot No.:** A0211460

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, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8.SEC	28888	99%	2,002.3 µg/mL	+/- 116.3467
2	Chloromethane (methyl chloride)	74-87-3.SEC	00022694	99%	2,014.2 µg/mL	+/- 117.1824
3	Vinyl chloride	75-01-4 *	00015559	99%	2,009.3 µg/mL	+/- 117.9630
4	1,3-Butadiene	106-99-0.SEC	28539	99%	2,030.2 µg/mL	+/- 117.6986
5	Bromomethane (methyl bromide)	74-83-9 *	00017022	99%	2,017.1 µg/mL	+/- 136.9230
6	Chloroethane (ethyl chloride)	75-00-3.SEC	00021903	99%	2,005.3 µg/mL	+/- 122.7081
7	Dichlorofluoromethane (CFC-21)	75-43-4 *	14485600	90%	2,016.0 µg/mL	+/- 113.2616
8	Trichlorofluoromethane (CFC-11)	75-69-4.SEC	00010739	99%	2,020.0 µg/mL	+/- 113.4863
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	354-23-4 *	877500	99%	2,005.1 µg/mL	+/- 115.4133

* 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:

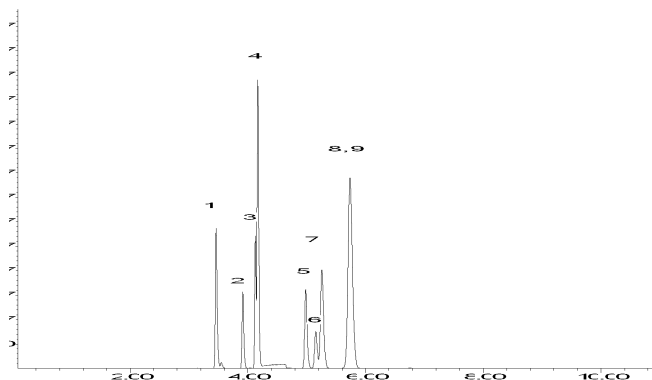
MSD

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: 15-May-2024

Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 22-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_QC_2K_GAS_00296



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.:** A0211460

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, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8.SEC	28888	99%	2,002.3 µg/mL	+/- 116.3467
2	Chloromethane (methyl chloride)	74-87-3.SEC	00022694	99%	2,014.2 µg/mL	+/- 117.1824
3	Vinyl chloride	75-01-4 *	00015559	99%	2,009.3 µg/mL	+/- 117.9630
4	1,3-Butadiene	106-99-0.SEC	28539	99%	2,030.2 µg/mL	+/- 117.6986
5	Bromomethane (methyl bromide)	74-83-9 *	00017022	99%	2,017.1 µg/mL	+/- 136.9230
6	Chloroethane (ethyl chloride)	75-00-3.SEC	00021903	99%	2,005.3 µg/mL	+/- 122.7081
7	Dichlorofluoromethane (CFC-21)	75-43-4 *	14485600	90%	2,016.0 µg/mL	+/- 113.2616
8	Trichlorofluoromethane (CFC-11)	75-69-4.SEC	00010739	99%	2,020.0 µg/mL	+/- 113.4863
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	354-23-4 *	877500	99%	2,005.1 µg/mL	+/- 115.4133

* 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:

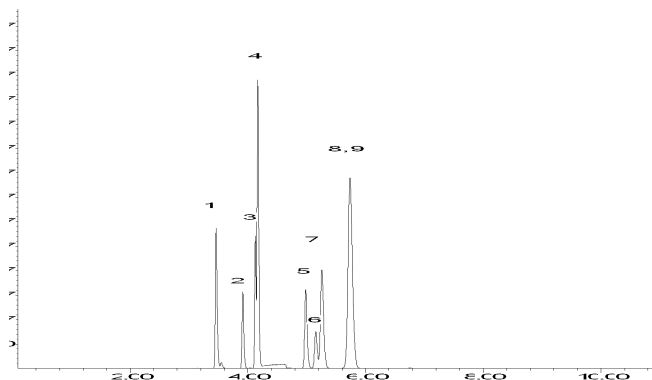
MSD

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: 15-May-2024

Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 22-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V#1B_00127



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.: 569936-1 **Lot No.:** A0158586

Description: Custom Revised V #1B Standard

Custom Revised V #1B Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date: March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	1,1-dichloroethene	5,011.4 µg/mL	+/-	31.9644	µg/mL	Gravimetric
	CAS # 75-35-4 (Lot SHBK2437)		+/-	281.2901	µg/mL	Unstressed
	Purity 99%		+/-	287.8577	µg/mL	Stressed
2	Methylene chloride (dichloromethane)	5,004.6 µg/mL	+/-	31.9213	µg/mL	Gravimetric
	CAS # 75-09-2 (Lot SHBL3107)		+/-	280.9112	µg/mL	Unstressed
	Purity 99%		+/-	287.4700	µg/mL	Stressed
3	trans-1,2-Dichloroethene	5,017.5 µg/mL	+/-	32.0035	µg/mL	Gravimetric
	CAS # 156-60-5 (Lot MKBH9850V)		+/-	281.6339	µg/mL	Unstressed
	Purity 99%		+/-	288.2096	µg/mL	Stressed
4	1,1-Dichloroethane	5,020.4 µg/mL	+/-	32.0218	µg/mL	Gravimetric
	CAS # 75-34-3 (Lot 580900)		+/-	281.7953	µg/mL	Unstressed
	Purity 99%		+/-	288.3747	µg/mL	Stressed
5	2,2-Dichloropropane	5,050.0 µg/mL	+/-	32.0202	µg/mL	Gravimetric
	CAS # 594-20-7 (Lot BCBT5124)		+/-	283.4366	µg/mL	Unstressed
	Purity 99%		+/-	290.0553	µg/mL	Stressed
6	cis-1,2-Dichloroethene	5,046.5 µg/mL	+/-	31.9980	µg/mL	Gravimetric
	CAS # 156-59-2 (Lot MKBX5945V)		+/-	283.2401	µg/mL	Unstressed
	Purity 99%		+/-	289.8543	µg/mL	Stressed
7	chloroform	5,034.3 µg/mL	+/-	32.1103	µg/mL	Gravimetric
	CAS # 67-66-3 (Lot SHBJ9076)		+/-	282.5741	µg/mL	Unstressed
	Purity 99%		+/-	289.1717	µg/mL	Stressed

8	1,1,1-trichloroethane CAS # 71-55-6 Purity 98%	(Lot 190123CG)	5,001.3	µg/mL	+/-	31.9002	µg/mL	Gravimetric
					+/-	280.7250	µg/mL	Unstressed
					+/-	287.2795	µg/mL	Stressed
9	1,1-Dichloropropene CAS # 563-58-6 Purity 99%	(Lot 170301JLM)	5,048.9	µg/mL	+/-	32.0131	µg/mL	Gravimetric
					+/-	283.3734	µg/mL	Unstressed
					+/-	289.9907	µg/mL	Stressed
10	carbon tetrachloride CAS # 56-23-5 Purity 99%	(Lot SHBG8938V)	5,022.9	µg/mL	+/-	32.0378	µg/mL	Gravimetric
					+/-	281.9356	µg/mL	Unstressed
					+/-	288.5183	µg/mL	Stressed
11	1,2-Dichloroethane CAS # 107-06-2 Purity 99%	(Lot MKCH9948)	5,007.9	µg/mL	+/-	31.9421	µg/mL	Gravimetric
					+/-	281.0937	µg/mL	Unstressed
					+/-	287.6567	µg/mL	Stressed
12	Benzene CAS # 71-43-2 Purity 99%	(Lot SHBG7317V)	5,042.9	µg/mL	+/-	31.9750	µg/mL	Gravimetric
					+/-	283.0367	µg/mL	Unstressed
					+/-	289.6461	µg/mL	Stressed
13	Trichloroethene CAS # 79-01-6 Purity 99%	(Lot SHBJ4611)	5,012.9	µg/mL	+/-	31.9740	µg/mL	Gravimetric
					+/-	281.3743	µg/mL	Unstressed
					+/-	287.9439	µg/mL	Stressed
14	1,2-Dichloropropane CAS # 78-87-5 Purity 99%	(Lot BCBR0882V)	5,012.6	µg/mL	+/-	31.9724	µg/mL	Gravimetric
					+/-	281.3603	µg/mL	Unstressed
					+/-	287.9295	µg/mL	Stressed
15	bromodichloromethane CAS # 75-27-4 Purity 99%	(Lot MKCJ0238)	5,039.1	µg/mL	+/-	32.1414	µg/mL	Gravimetric
					+/-	282.8477	µg/mL	Unstressed
					+/-	289.4517	µg/mL	Stressed
16	Dibromomethane CAS # 74-95-3 Purity 99%	(Lot 10201030)	5,047.3	µg/mL	+/-	32.0027	µg/mL	Gravimetric
					+/-	283.2822	µg/mL	Unstressed
					+/-	289.8973	µg/mL	Stressed
17	cis-1,3-Dichloropropene CAS # 10061-01-5 Purity 99%	(Lot 200107JLM)	5,015.1	µg/mL	+/-	31.9883	µg/mL	Gravimetric
					+/-	281.5006	µg/mL	Unstressed
					+/-	288.0731	µg/mL	Stressed
18	Toluene CAS # 108-88-3 Purity 99%	(Lot SHBH9895)	5,031.9	µg/mL	+/-	31.9053	µg/mL	Gravimetric
					+/-	282.4193	µg/mL	Unstressed
					+/-	289.0143	µg/mL	Stressed
19	trans-1,3-Dichloropropene CAS # 10061-02-6 Purity 99%	(Lot 19420164-D1219)	5,003.8	µg/mL	+/-	31.9158	µg/mL	Gravimetric
					+/-	280.8621	µg/mL	Unstressed
					+/-	287.4198	µg/mL	Stressed
20	1,1,2-Trichloroethane CAS # 79-00-5 Purity 99%	(Lot FGB01)	5,015.4	µg/mL	+/-	31.9899	µg/mL	Gravimetric
					+/-	281.5146	µg/mL	Unstressed
					+/-	288.0875	µg/mL	Stressed
21	1,3-Dichloropropane CAS # 142-28-9 Purity 99%	(Lot BCBG2162V)	5,042.4	µg/mL	+/-	31.9718	µg/mL	Gravimetric
					+/-	283.0086	µg/mL	Unstressed
					+/-	289.6173	µg/mL	Stressed
22	Tetrachloroethene CAS # 127-18-4 Purity 99%	(Lot SHBJ7422)	5,014.3	µg/mL	+/-	31.9827	µg/mL	Gravimetric
					+/-	281.4515	µg/mL	Unstressed
					+/-	288.0229	µg/mL	Stressed
23	dibromochloromethane CAS # 124-48-1 Purity 99%	(Lot MKCK6472)	5,016.1	µg/mL	+/-	31.9947	µg/mL	Gravimetric
					+/-	281.5567	µg/mL	Unstressed
					+/-	288.1306	µg/mL	Stressed

24	1,2-Dibromoethane (EDB) CAS # 106-93-4 Purity 99%	(Lot BCBP2268V)	5,037.4 µg/mL	+/- +/- +/-	31.9401 282.7280 289.3302	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1-Chlorohexane CAS # 544-10-5 Purity 98%	(Lot BCBS3368V)	5,010.7 µg/mL	+/- +/- +/-	29.3390 280.9687 287.5420	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Chlorobenzene CAS # 108-90-7 Purity 99%	(Lot SHBJ0839)	5,009.0 µg/mL	+/- +/- +/-	31.9493 281.1568 287.7213	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	1,1,1,2-Tetrachloroethane CAS # 630-20-6 Purity 99%	(Lot MKBS3769V)	5,038.6 µg/mL	+/- +/- +/-	31.9481 282.7981 289.4020	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Ethylbenzene CAS # 100-41-4 Purity 99%	(Lot SHBJ3183)	5,029.3 µg/mL	+/- +/- +/-	31.8886 282.2719 288.8635	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	m-Xylene CAS # 108-38-3 Purity 99%	(Lot SHBH8323)	5,038.4 µg/mL	+/- +/- +/-	31.9465 282.7841 289.3876	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	p-Xylene CAS # 106-42-3 Purity 99%	(Lot SHBJ0052)	5,038.0 µg/mL	+/- +/- +/-	31.9441 282.7630 289.3661	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	o-Xylene CAS # 95-47-6 Purity 99%	(Lot SHBH3432V)	5,046.4 µg/mL	+/- +/- +/-	31.9972 283.2331 289.8471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Styrene CAS # 100-42-5 Purity 99%	(Lot MKBV4061V)	5,047.0 µg/mL	+/- +/- +/-	32.0012 283.2682 289.8830	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	Isopropylbenzene (cumene) CAS # 98-82-8 Purity 99%	(Lot 10185056)	5,035.3 µg/mL	+/- +/- +/-	31.9267 282.6087 289.2081	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	bromoform CAS # 75-25-2 Purity 99%	(Lot SHBJ4835)	5,013.0 µg/mL	+/- +/- +/-	31.9748 281.3813 287.9511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	1,1,2,2-Tetrachloroethane CAS # 79-34-5 Purity 99%	(Lot CFA4D)	5,016.0 µg/mL	+/- +/- +/-	31.9939 281.5497 288.1234	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	1,2,3-Trichloropropane CAS # 96-18-4 Purity 99%	(Lot BCBH8722V)	5,033.4 µg/mL	+/- +/- +/-	31.9148 282.5035 289.1004	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	n-Propylbenzene CAS # 103-65-1 Purity 99%	(Lot MKBJ0332V)	5,032.4 µg/mL	+/- +/- +/-	31.9084 282.4473 289.0430	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	Bromobenzene CAS # 108-86-1 Purity 99%	(Lot WXBC5147V)	5,035.5 µg/mL	+/- +/- +/-	31.9282 282.6227 289.2225	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	1,3,5-Trimethylbenzene CAS # 108-67-8 Purity 99%	(Lot BCBS7648V)	5,029.8 µg/mL	+/- +/- +/-	31.8918 282.3000 288.8922	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	2-Chlorotoluene CAS # 95-49-8 Purity 99%	(Lot MKBW5554V)	5,037.5 µg/mL	+/-	31.9409 µg/mL	Gravimetric Unstressed Stressed
				+/-	282.7350 µg/mL	
				+/-	289.3373 µg/mL	
41	4-Chlorotoluene CAS # 106-43-4 Purity 99%	(Lot MKBL7753V)	5,039.1 µg/mL	+/-	31.9512 µg/mL	Gravimetric Unstressed Stressed
				+/-	282.8262 µg/mL	
				+/-	289.4307 µg/mL	
42	tert-Butylbenzene CAS # 98-06-6 Purity 99%	(Lot STBD6954V)	5,049.8 µg/mL	+/-	32.0186 µg/mL	Gravimetric Unstressed Stressed
				+/-	283.4225 µg/mL	
				+/-	290.0409 µg/mL	
43	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 98%	(Lot MKBJ6229V)	5,046.8 µg/mL	+/-	31.9996 µg/mL	Gravimetric Unstressed Stressed
				+/-	283.2544 µg/mL	
				+/-	289.8689 µg/mL	
44	sec-Butylbenzene CAS # 135-98-8 Purity 99%	(Lot MKBR9260V)	5,042.8 µg/mL	+/-	31.9742 µg/mL	Gravimetric Unstressed Stressed
				+/-	283.0296 µg/mL	
				+/-	289.6389 µg/mL	
45	p-Isopropyltoluene (p-Cymene) CAS # 99-87-6 Purity 99%	(Lot MKBV3556V)	5,038.4 µg/mL	+/-	31.9465 µg/mL	Gravimetric Unstressed Stressed
				+/-	282.7841 µg/mL	
				+/-	289.3876 µg/mL	
46	1,3-Dichlorobenzene CAS # 541-73-1 Purity 99%	(Lot BCBQ7100V)	5,017.6 µg/mL	+/-	32.0043 µg/mL	Gravimetric Unstressed Stressed
				+/-	281.6409 µg/mL	
				+/-	288.2167 µg/mL	
47	1,4-Dichlorobenzene CAS # 106-46-7 Purity 99%	(Lot MKBS4401V)	5,023.8 µg/mL	+/-	32.0433 µg/mL	Gravimetric Unstressed Stressed
				+/-	281.9847 µg/mL	
				+/-	288.5686 µg/mL	
48	n-Butylbenzene CAS # 104-51-8 Purity 99%	(Lot 09804AE)	5,024.8 µg/mL	+/-	31.8601 µg/mL	Gravimetric Unstressed Stressed
				+/-	282.0194 µg/mL	
				+/-	288.6050 µg/mL	
49	1,2-Dichlorobenzene CAS # 95-50-1 Purity 99%	(Lot SHBG3111V)	5,024.5 µg/mL	+/-	32.0481 µg/mL	Gravimetric Unstressed Stressed
				+/-	282.0268 µg/mL	
				+/-	288.6117 µg/mL	
50	1,2-Dibromo-3-chloropropane CAS # 96-12-8 Purity 99%	(Lot FBL01)	5,036.4 µg/mL	+/-	31.9338 µg/mL	Gravimetric Unstressed Stressed
				+/-	282.6718 µg/mL	
				+/-	289.2727 µg/mL	
51	1,3,5-Trichlorobenzene CAS # 108-70-3 Purity 99%	(Lot 11319AS)	5,034.0 µg/mL	+/-	29.4752 µg/mL	Gravimetric Unstressed Stressed
				+/-	282.2729 µg/mL	
				+/-	288.8768 µg/mL	
52	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot SHBJ0905)	5,036.5 µg/mL	+/-	31.9346 µg/mL	Gravimetric Unstressed Stressed
				+/-	282.6789 µg/mL	
				+/-	289.2799 µg/mL	
53	Hexachlorobutadiene CAS # 87-68-3 Purity 99%	(Lot J31X013)	5,033.6 µg/mL	+/-	31.9164 µg/mL	Gravimetric Unstressed Stressed
				+/-	282.5175 µg/mL	
				+/-	289.1148 µg/mL	
54	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKBW2603V)	5,033.6 µg/mL	+/-	31.9164 µg/mL	Gravimetric Unstressed Stressed
				+/-	282.5175 µg/mL	
				+/-	289.1148 µg/mL	
55	1,2,3-Trichlorobenzene CAS # 87-61-6 Purity 99%	(Lot MKBS4859V)	5,016.0 µg/mL	+/-	31.8046 µg/mL	Gravimetric Unstressed Stressed
				+/-	281.5283 µg/mL	
				+/-	288.1024 µg/mL	

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

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

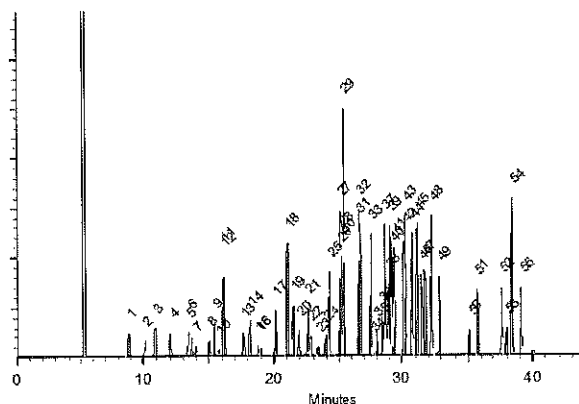
Carrier Gas:
hydrogen-constant pressure 8.0 psi.

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 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.

Cyndee L. Crust
Cyndee L. Crust - Mix Technician

Date Mixed: 09-Mar-2020

Balance: B251644995

Feiq-Yan Lo
Feiq-Yan Lo - GC Analyst

Date Passed: 11-Mar-2020

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

Reagent

MSV_V#2B_00161



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. : 56734 **Lot No.:** A0159694
Description : Custom V # 2B Standard
Custom V #2B Standard 12,500-125,000µg/mL, P&T Methanol,
1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2022 **Storage:** 0°C or colder

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	99%	25,019.2 µg/mL	+/- 146.4929 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,022.4 µg/mL	+/- 146.5117 µg/mL
3	Propionitrile	107-12-0	99%	25,020.0 µg/mL	+/- 146.4976 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,533.6 µg/mL	+/- 73.3870 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,702.0 µg/mL	+/- 367.1151 µg/mL
6	1-Butanol	71-36-3	99%	125,150.0 µg/mL	+/- 732.7430 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,550.0 µg/mL	+/- 366.2251 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,549.5 µg/mL	+/- 73.4801 µg/mL
Solvent:	P&T Methanol	67-56-1	99%		

Specific Reference Material Notes:

This RM (Reference Material) is not a CRM (Certified Reference Material) due to the 1-butanol concentration exceeding the maximum concentration on Restek's ISO Guide 34 scope of accreditation.

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

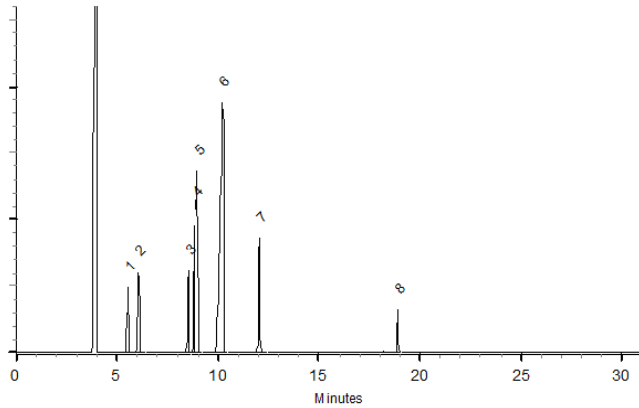
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.


Clara Windle - Operations Technician I

Date Mixed: 07-Apr-2020 **Balance:** B251644995


Fang-Yun Lo - QC Analyst

Date Passed: 10-Apr-2020

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

General Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the RM 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/ μ ECD, 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.

Uncertainty Value Notes:

- Uncertainties are determined using data from balances and glassware, raw material purity, and, when significant, equipment tolerances or calibration results.

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

Reagent

MSV_V#3B_00070



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. : 56736 Lot No.: A0158677

Description : Custom V # 3B Standard

Custom V #3B Standard 12,500-25,000µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : March 31, 2023 Storage: 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetone CAS # 67-64-1 (Lot MKCK2598) Purity 99%	25,001.0 µg/mL	+/- 146.3864 µg/mL Gravimetric +/- 1,236.8670 µg/mL Unstressed +/- 1,267.6168 µg/mL Stressed
2	Acrylonitrile CAS # 107-13-1 (Lot A0387097) Purity 99%	12,511.0 µg/mL	+/- 73.2547 µg/mL Gravimetric +/- 618.9529 µg/mL Unstressed +/- 634.3408 µg/mL Stressed
3	2-Butanone (MEK) CAS # 78-93-3 (Lot SHBK9603) Purity 99%	25,007.0 µg/mL	+/- 146.4215 µg/mL Gravimetric +/- 1,237.1638 µg/mL Unstressed +/- 1,267.9210 µg/mL Stressed
4	Tetrahydrofuran CAS # 109-99-9 (Lot SHBK8926) Purity 99%	25,049.0 µg/mL	+/- 146.6674 µg/mL Gravimetric +/- 1,239.2417 µg/mL Unstressed +/- 1,270.0505 µg/mL Stressed
5	2-Nitropropane CAS # 79-46-9 (Lot BCCB9352) Purity 97%	24,758.3 µg/mL	+/- 144.9652 µg/mL Gravimetric +/- 1,224.8589 µg/mL Unstressed +/- 1,255.3102 µg/mL Stressed
6	4-Methyl-2-pentanone (MIBK) CAS # 108-10-1 (Lot SHBL5515) Purity 99%	25,014.0 µg/mL	+/- 146.4625 µg/mL Gravimetric +/- 1,237.5101 µg/mL Unstressed +/- 1,268.2759 µg/mL Stressed
7	2-Hexanone CAS # 591-78-6 (Lot MKCL1599) Purity 99%	25,016.0 µg/mL	+/- 146.4742 µg/mL Gravimetric +/- 1,237.6091 µg/mL Unstressed +/- 1,268.3773 µg/mL Stressed

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

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

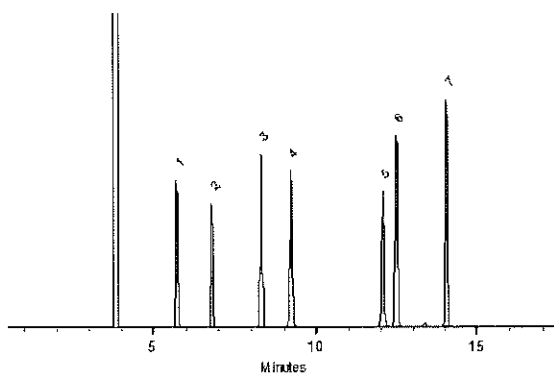
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

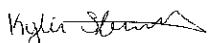
Inj. Temp:
200°C

Det. Temp:
250°C

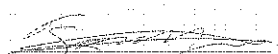
Det. Type:
FID



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.


Kyle Struble - Operations Technician I

Date Mixed: 10-Mar-2020 **Balance:** B251644995


Fang-Yun Lo - QC Analyst

Date Passed: 12-Mar-2020

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

Reagent

MSV_V#4C_00107



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. : 572312 **Lot No.:** A0158660

Description : Custom V #4C (Rev 3) Standard
Custom V #4C (Rev 3) Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : March 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,3-Butadiene CAS # 106-99-0 (Lot SHBK2299) Purity 99%	5,002.1 µg/mL	+/- 39.8717 µg/mL Gravimetric +/- 303.0271 µg/mL Unstressed +/- 303.7407 µg/mL Stressed
2	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a) CAS # 354-23-4 (Lot Q9B-64) Purity 99%	5,001.4 µg/mL	+/- 47.3932 µg/mL Gravimetric +/- 304.0702 µg/mL Unstressed +/- 304.7812 µg/mL Stressed
3	n-Pentane (C5) CAS # 109-66-0 (Lot SHBL0400) Purity 99%	5,025.0 µg/mL	+/- 29.4225 µg/mL Gravimetric +/- 303.2005 µg/mL Unstressed +/- 303.9203 µg/mL Stressed
4	1,1,2-Trichlorotrifluoroethane (CFC-113) CAS # 76-13-1 (Lot 00016133) Purity 99%	5,024.0 µg/mL	+/- 29.4166 µg/mL Gravimetric +/- 303.1402 µg/mL Unstressed +/- 303.8598 µg/mL Stressed
5	Iodomethane (methyl iodide) CAS # 74-88-4 (Lot D4406-0122JM) Purity 99%	5,035.0 µg/mL	+/- 29.4810 µg/mL Gravimetric +/- 303.8039 µg/mL Unstressed +/- 304.5251 µg/mL Stressed
6	Carbon disulfide CAS # 75-15-0 (Lot U22D706) Purity 99%	5,046.0 µg/mL	+/- 29.5454 µg/mL Gravimetric +/- 304.4676 µg/mL Unstressed +/- 305.1904 µg/mL Stressed
7	Methyl-tert-butyl ether (MTBE) CAS # 1634-04-4 (Lot SHBK4806) Purity 99%	5,025.0 µg/mL	+/- 29.4225 µg/mL Gravimetric +/- 303.2005 µg/mL Unstressed +/- 303.9203 µg/mL Stressed

8	n-Hexane (C6) CAS # 110-54-3 Purity 99%	(Lot SHBL0924)	5,025.5 µg/mL	+/-	29.4254 µg/mL	Gravimetric
				+/-	303.2307 µg/mL	Unstressed
				+/-	303.9505 µg/mL	Stressed
9	Diisopropyl ether (DIPE) CAS # 108-20-3 Purity 99%	(Lot SHBH1927V)	5,015.0 µg/mL	+/-	29.3639 µg/mL	Gravimetric
				+/-	302.5971 µg/mL	Unstressed
				+/-	303.3154 µg/mL	Stressed
10	Chloroprene (2-chloro-1,3-butadiene) CAS # 126-99-8 Purity 99%	(Lot 191204JLM)	5,046.5 µg/mL	+/-	29.5484 µg/mL	Gravimetric
				+/-	304.4978 µg/mL	Unstressed
				+/-	305.2206 µg/mL	Stressed
11	Ethyl-tert-butyl ether (ETBE) CAS # 637-92-3 Purity 99%	(Lot MKCJ3589)	5,026.5 µg/mL	+/-	29.4313 µg/mL	Gravimetric
				+/-	303.2910 µg/mL	Unstressed
				+/-	304.0110 µg/mL	Stressed
12	Cyclohexane CAS # 110-82-7 Purity 99%	(Lot MKCF5831)	5,028.5 µg/mL	+/-	29.4430 µg/mL	Gravimetric
				+/-	303.4117 µg/mL	Unstressed
				+/-	304.1319 µg/mL	Stressed
13	tert-Amyl methyl ether (TAME) CAS # 994-05-8 Purity 99%	(Lot HMBG6382V)	5,021.0 µg/mL	+/-	29.3991 µg/mL	Gravimetric
				+/-	302.9592 µg/mL	Unstressed
				+/-	303.6783 µg/mL	Stressed
14	n-Heptane (C7) CAS # 142-82-5 Purity 98%	(Lot SHBK8626)	5,044.1 µg/mL	+/-	29.5341 µg/mL	Gravimetric
				+/-	304.3506 µg/mL	Unstressed
				+/-	305.0730 µg/mL	Stressed
15	tert-Amyl ethyl ether (TAEE) CAS # 919-94-8 Purity 99%	(Lot IKVYB)	5,018.5 µg/mL	+/-	29.3844 µg/mL	Gravimetric
				+/-	302.8083 µg/mL	Unstressed
				+/-	303.5271 µg/mL	Stressed
16	Methyl methacrylate CAS # 80-62-6 Purity 99%	(Lot MKCG6589)	5,028.0 µg/mL	+/-	29.4400 µg/mL	Gravimetric
				+/-	303.3815 µg/mL	Unstressed
				+/-	304.1017 µg/mL	Stressed
17	Ethyl methacrylate CAS # 97-63-2 Purity 99%	(Lot SHBF9649V)	5,043.0 µg/mL	+/-	29.5279 µg/mL	Gravimetric
				+/-	304.2866 µg/mL	Unstressed
				+/-	305.0089 µg/mL	Stressed
18	Benzyl chloride CAS # 100-44-7 Purity 99%	(Lot SHBH2102V)	5,019.5 µg/mL	+/-	29.3903 µg/mL	Gravimetric
				+/-	302.8686 µg/mL	Unstressed
				+/-	303.5876 µg/mL	Stressed
Solvent: P&T Methanol CAS # 67-56-1 Purity 99%						

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-SQ2.2 (cat.#10916)

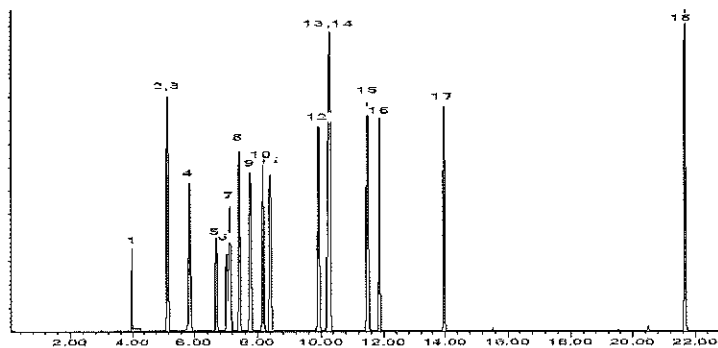
Carrier Gas:
helium-constant pressure 30 psi

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

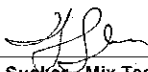
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

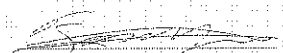


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 10-Mar-2020

Balance: B707717271


Fang-Yun Lo - QC Analyst

Date Passed: 25-Mar-2020

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

Reagent

MSV_V#6_00046



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Bellefonte, PA 16823-8812
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Fax: (814)353-1309

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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. : 558268 **Lot No.:** A0158625

Description : Custom CS#6 Standard

Custom CS#6 Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Methyl acetate CAS # 79-20-9 (Lot SHBK5436) Purity 99%	5,039.0 µg/mL	+/- 29.5717 µg/mL Gravimetric +/- 304.0518 µg/mL Unstressed +/- 304.7735 µg/mL Stressed
2	Allyl chloride (3-chloropropene) CAS # 107-05-1 (Lot 191118KJ) Purity 99%	5,046.0 µg/mL	+/- 29.6128 µg/mL Gravimetric +/- 304.4742 µg/mL Unstressed +/- 305.1969 µg/mL Stressed
3	Bromochloromethane CAS # 74-97-5 (Lot 00008541) Purity 98%	5,040.1 µg/mL	+/- 29.5784 µg/mL Gravimetric +/- 304.1206 µg/mL Unstressed +/- 304.8425 µg/mL Stressed
4	Methylcyclohexane CAS # 108-87-2 (Lot SHBJ0457) Purity 99%	5,041.0 µg/mL	+/- 29.5834 µg/mL Gravimetric +/- 304.1725 µg/mL Unstressed +/- 304.8945 µg/mL Stressed
5	Pentachloroethane CAS # 76-01-7 (Lot 8866000) Purity 99%	5,035.0 µg/mL	+/- 29.5482 µg/mL Gravimetric +/- 303.8104 µg/mL Unstressed +/- 304.5316 µg/mL Stressed
6	1,2,3-Trimethylbenzene CAS # 526-73-8 (Lot 8766.05-14) Purity 99%	5,012.0 µg/mL	+/- 29.4132 µg/mL Gravimetric +/- 302.4226 µg/mL Unstressed +/- 303.1405 µg/mL Stressed
7	1,3-Diethylbenzene CAS # 141-93-5 (Lot BCBT8967) Purity 98%	5,041.1 µg/mL	+/- 29.5841 µg/mL Gravimetric +/- 304.1797 µg/mL Unstressed +/- 304.9017 µg/mL Stressed

8	1,4-Diethylbenzene CAS # 105-05-5 Purity 98%	(Lot RLHJK)	5,035.2 µg/mL	+/- 29.5496 +/- 303.8249 +/- 304.5461	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	1,2-Diethylbenzene CAS # 135-01-3 Purity 99%	(Lot ECH2970181)	5,011.0 µg/mL	+/- 29.4074 +/- 302.3623 +/- 303.0800	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	2-Methylnaphthalene CAS # 91-57-6 Purity 96%	(Lot STBG8884)	5,023.7 µg/mL	+/- 29.4818 +/- 303.1274 +/- 303.8469	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent: P&T Methanol CAS # 67-56-1 Purity 99%						

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

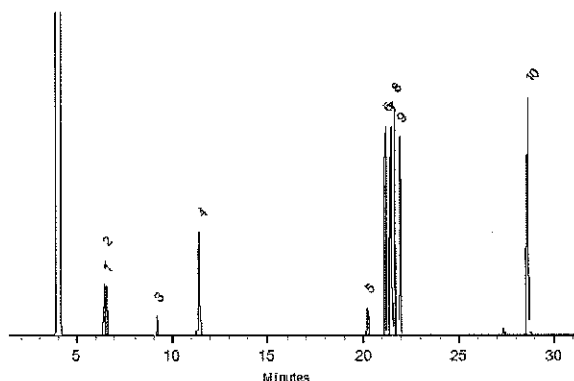
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

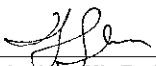
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

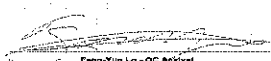


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 09-Mar-2020

Balance: B707717271


Feng-Yin Lin - QC Analyst

Date Passed: 12-Mar-2020

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

Reagent

MSV_V_Gas_00176



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. : 55669 **Lot No.:** A0159812

Description : Custom 502.2 "V" Gas Mix
Custom 502.2 "V" Gas Mix 2,000µg/mL, P&T Methanol, 1mL/ampul

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

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12) CAS # 75-71-8 (Lot 00012554) Purity 99%	2,005.1 µg/mL	+/- 16.8576 µg/mL Gravimetric +/- 113.0809 µg/mL Unstressed +/- 115.6966 µg/mL Stressed
2	Chloromethane (methyl chloride) CAS # 74-87-3 (Lot SHBK6571) Purity 99%	2,003.5 µg/mL	+/- 19.3327 µg/mL Gravimetric +/- 113.3884 µg/mL Unstressed +/- 115.9929 µg/mL Stressed
3	Vinyl chloride CAS # 75-01-4 (Lot 00015559) Purity 99%	2,001.1 µg/mL	+/- 18.1213 µg/mL Gravimetric +/- 113.0560 µg/mL Unstressed +/- 115.6619 µg/mL Stressed
4	Bromomethane (methyl bromide) CAS # 74-83-9 (Lot 101604) Purity 99%	1,998.8 µg/mL	+/- 17.7535 µg/mL Gravimetric +/- 112.8737 µg/mL Unstressed +/- 115.4779 µg/mL Stressed
5	Chloroethane (ethyl chloride) CAS # 75-00-3 (Lot 107-401039114-1) Purity 99%	2,002.3 µg/mL	+/- 17.1357 µg/mL Gravimetric +/- 112.9711 µg/mL Unstressed +/- 115.5821 µg/mL Stressed
6	Trichlorofluoromethane (CFC-11) CAS # 75-69-4 (Lot 25931) Purity 99%	2,020.0 µg/mL	+/- 11.7716 µg/mL Gravimetric +/- 113.2622 µg/mL Unstressed +/- 115.9123 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)

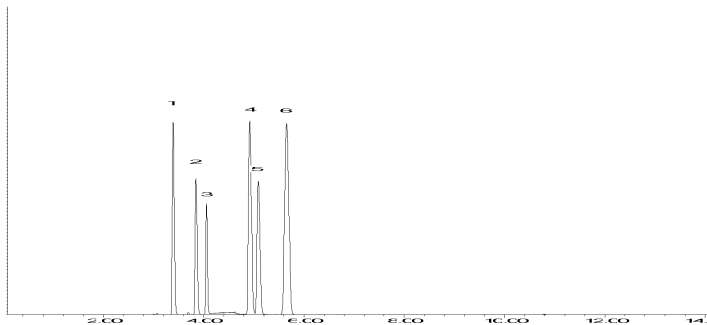
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

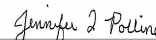


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 10-Apr-2020

Balance: B707717271


Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 06-May-2020

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

Reagent

MSV_V_Ketones_00221



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.:** A0210935

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

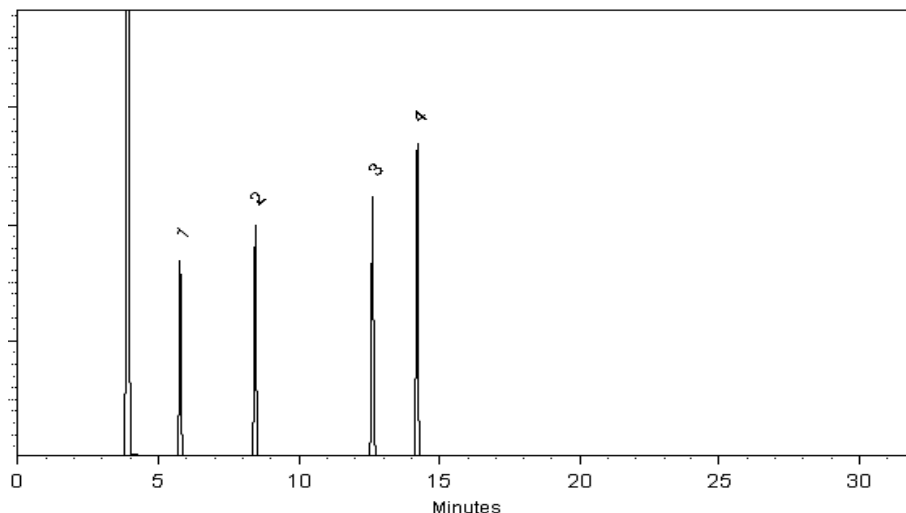
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



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

Stacey Wanner - Operations Technician I

Date Mixed: 30-Apr-2024

Balance Serial # B707717271

Dillan Murphy - Operations Technician I

Date Passed: 02-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_PentaCL_00063



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. : 577491 **Lot No.:** A0197490

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, 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	Pentachloroethane	76-01-7	13550700	97%	5,011.0 µg/mL	+/- 281.5258

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

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

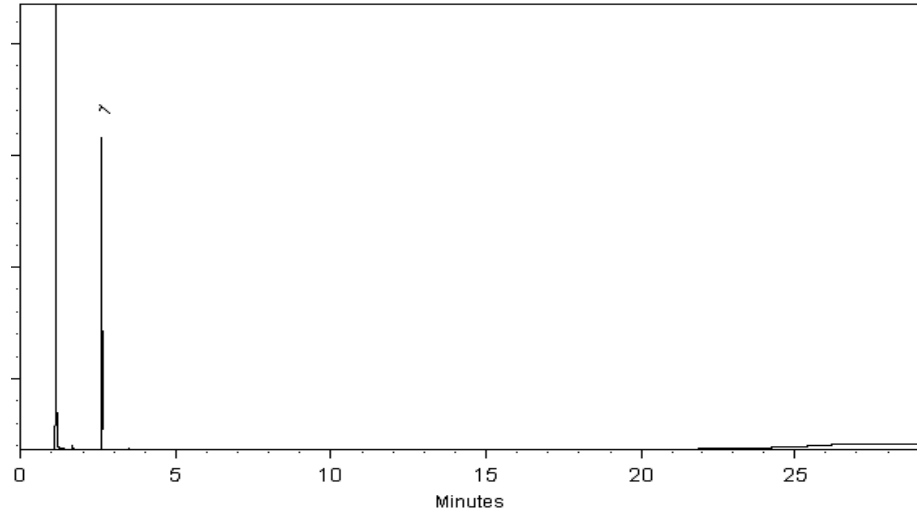
FID

Split Vent:

100 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.

Nick Yaw - Operations Tech I

Date Mixed: 26-Apr-2023

Balance Serial # B251644995

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.

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.: 410-214590-1

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	410-214590-1	105	97	92	96
HD-COD-SW-7-0/1-0	410-214590-2	107	101	94	97
HD-COD-SW-8-0/1-0	410-214590-3	107	100	94	95
HD-COD-SW-9-0/1-0	410-214590-4	109	97	93	94
HD-COD-SW-13-0/1-0	410-214590-5	107	100	91	94
HD-COD-SW-15-0/1-0	410-214590-6	104	100	91	92
HD-COD-SW-16-0/1-0	410-214590-7	106	98	94	94
HD-COD-SW-17-0/1-0	410-214590-8	100	95	90	94
HD-COD-SW-17-0/1-0 DL	410-214590-8 DL	108	100	92	95
HD-COD-SW-26-0/1-0	410-214590-9	106	97	92	96
HD-COD-SW-27-0/1-0	410-214590-10	109	99	94	92
HD-COD-SW-28-0/1-0	410-214590-11	107	101	92	94
HD-COD-SW-29-0/1-0	410-214590-12	106	99	93	96
HD-QC1-0/1-1	410-214590-13	107	97	87	93
HD-QC1-0/1-1 DL	410-214590-13 DL	101	91	91	94
HD-QC1-0/1-2	410-214590-14	104	99	93	97
	MB 410-624273/6	104	100	93	96
	LCS 410-624273/4	99	96	96	103
HD-COD-SW-15-0/1-0 MS MS	410-214590-6 MS	102	95	97	103
HD-COD-SW-15-0/1-0 MSD MSD	410-214590-6 MSD	102	95	96	104

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.: 410-214590-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: GM31X03.D

Lab ID: LCS 410-624273/4

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.98	100	80-122	
1,1,1-Trichloroethane	5.00	5.14	103	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.92	98	75-123	
1,1,2-Trichloroethane	5.00	4.76	95	80-120	
1,1-Dichloroethane	5.00	5.01	100	74-120	
1,1-Dichloroethene	5.00	5.45	109	80-131	
1,2-Dibromoethane (EDB)	5.00	4.71	94	80-120	
1,2-Dichloroethane	5.00	4.60	92	69-122	
1,2-Dichloropropane	5.00	5.01	100	80-120	
2-Butanone (MEK)	62.5	60.3	96	59-141	
2-Hexanone	62.5	62.7	100	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	66.6	107	55-140	
Acetone	62.5	54.3	87	60-146	
Benzene	5.00	4.91	98	80-120	
Bromochloromethane	5.00	5.38	108	80-133	
Bromodichloromethane	5.00	5.13	103	80-123	
Bromoform	5.00	4.76	95	75-126	
Bromomethane	5.00	4.59	92	63-120	
Carbon disulfide	5.00	5.36	107	67-130	
Carbon tetrachloride	5.00	5.44	109	64-141	
Chlorobenzene	5.00	4.78	96	80-120	
Chloroethane	5.00	4.29	86	63-120	
Chloroform	5.00	5.17	103	80-120	
Chloromethane	5.00	3.97	79	56-124	
cis-1,2-Dichloroethene	5.00	5.01	100	80-122	
cis-1,3-Dichloropropene	5.00	4.46	89	67-121	
Dibromochloromethane	5.00	5.01	100	80-123	
Ethylbenzene	5.00	4.70	94	80-120	
Methyl tert-butyl ether	5.00	4.54	91	69-120	
Methylene Chloride	5.00	5.10	102	80-120	
Styrene	5.00	5.02	100	80-120	
Tetrachloroethene	5.00	4.62	92	80-120	
Toluene	5.00	4.68	94	80-120	
trans-1,2-Dichloroethene	5.00	5.10	102	80-122	
trans-1,3-Dichloropropene	5.00	4.44	89	61-129	
Trichloroethene	5.00	5.00	100	80-120	
Vinyl chloride	5.00	3.82	76	60-125	
Xylenes, Total	15.0	14.6	97	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.: 410-214590-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: GM31X17.D

Lab ID: 410-214590-6 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	5.98	120	80-122	
1,1,1-Trichloroethane	5.00	0.37 J	6.53	123	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	5.43	108	75-123	
1,1,2-Trichloroethane	5.00	ND	5.66	113	80-120	
1,1-Dichloroethane	5.00	0.11 J	6.04	118	74-120	
1,1-Dichloroethene	5.00	0.23 J	6.55	126	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	5.53	111	80-120	
1,2-Dichloroethane	5.00	ND	5.44	109	69-122	
1,2-Dichloropropane	5.00	ND	5.83	117	80-120	
2-Butanone (MEK)	62.6	ND	73.2	117	59-141	
2-Hexanone	62.6	ND	72.0	115	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	ND	77.1	123	55-140	
Acetone	62.6	ND	68.7	110	60-146	
Benzene	5.00	ND	5.74	115	80-120	
Bromochloromethane	5.00	ND	6.12	122	80-133	
Bromodichloromethane	5.00	ND	5.96	119	80-123	
Bromoform	5.00	ND	5.60	112	75-126	
Bromomethane	5.00	ND	5.03	100	63-120	
Carbon disulfide	5.00	0.25 J	6.11	117	67-130	
Carbon tetrachloride	5.00	ND	6.59	132	64-141	
Chlorobenzene	5.00	ND	5.82	116	80-120	
Chloroethane	5.00	ND	4.68	93	63-120	
Chloroform	5.00	0.20 J	6.24	121	80-120	FH
Chloromethane	5.00	ND	4.60	92	80-120	
cis-1,2-Dichloroethene	5.00	1.4	7.34	120	80-122	
cis-1,3-Dichloropropene	5.00	ND	5.01	100	67-121	
Dibromochloromethane	5.00	ND	5.82	116	80-123	
Ethylbenzene	5.00	ND	5.71	114	80-120	
Methyl tert-butyl ether	5.00	ND	4.99	100	69-120	
Methylene Chloride	5.00	ND	5.93	119	80-120	
Styrene	5.00	ND	5.83	117	80-120	
Tetrachloroethene	5.00	5.1	10.6	110	80-120	
Toluene	5.00	ND	5.74	115	80-120	
trans-1,2-Dichloroethene	5.00	ND	6.03	120	80-122	
trans-1,3-Dichloropropene	5.00	ND	5.08	102	61-129	
Trichloroethene	5.00	1.7	7.52	116	80-120	
Vinyl chloride	5.00	ND	5.38	107	60-125	
Xylenes, Total	15.0	ND	17.5	116	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.: 410-214590-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: GM31X18.D

Lab ID: 410-214590-6 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	5.58	112	7	30	80-122	
1,1,1-Trichloroethane	5.00	6.01	113	8	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.10	102	6	30	75-123	
1,1,2-Trichloroethane	5.00	5.20	104	8	30	80-120	
1,1-Dichloroethane	5.00	5.50	108	10	30	74-120	
1,1-Dichloroethene	5.00	6.17	119	6	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.16	103	7	30	80-120	
1,2-Dichloroethane	5.00	5.30	106	3	30	69-122	
1,2-Dichloropropane	5.00	5.47	109	6	30	80-120	
2-Butanone (MEK)	62.6	68.8	110	6	30	59-141	
2-Hexanone	62.6	66.7	107	8	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	71.5	114	8	30	55-140	
Acetone	62.6	62.2	99	10	30	60-146	
Benzene	5.00	5.35	107	7	30	80-120	
Bromochloromethane	5.00	5.89	118	4	30	80-133	
Bromodichloromethane	5.00	5.62	112	6	30	80-123	
Bromoform	5.00	5.21	104	7	30	75-126	
Bromomethane	5.00	4.89	98	3	30	63-120	
Carbon disulfide	5.00	5.64	108	8	30	67-130	
Carbon tetrachloride	5.00	6.12	122	7	30	64-141	
Chlorobenzene	5.00	5.33	107	9	30	80-120	
Chloroethane	5.00	4.68	93	0	30	63-120	
Chloroform	5.00	5.79	112	7	30	80-120	
Chloromethane	5.00	4.72	94	2	30	80-120	
cis-1,2-Dichloroethene	5.00	6.86	110	7	30	80-122	
cis-1,3-Dichloropropene	5.00	4.71	94	6	30	67-121	
Dibromochloromethane	5.00	5.44	109	7	30	80-123	
Ethylbenzene	5.00	5.23	104	9	30	80-120	
Methyl tert-butyl ether	5.00	4.71	94	6	30	69-120	
Methylene Chloride	5.00	5.46	109	8	30	80-120	
Styrene	5.00	5.54	111	5	30	80-120	
Tetrachloroethene	5.00	9.83	95	7	30	80-120	
Toluene	5.00	5.22	104	9	30	80-120	
trans-1,2-Dichloroethene	5.00	5.53	111	9	30	80-122	
trans-1,3-Dichloropropene	5.00	4.76	95	7	30	61-129	
Trichloroethene	5.00	6.96	105	8	30	80-120	
Vinyl chloride	5.00	3.99	80	30	30	60-125	
Xylenes, Total	15.0	16.1	107	8	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 Job No.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Lab File ID: GM31X05.D Lab Sample ID: MB 410-624273/6

Matrix: Water Heated Purge: (Y/N) N

Instrument ID: 16334 Date Analyzed: 04/01/2025 00:28

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 410-624273/4	GM31X03.D	03/31/2025 23:44
HD-QC1-0/1-2	410-214590-14	GM31X06.D	04/01/2025 00:50
HD-COD-SW-6-0/1-0	410-214590-1	GM31X11.D	04/01/2025 02:41
HD-COD-SW-7-0/1-0	410-214590-2	GM31X12.D	04/01/2025 03:03
HD-COD-SW-8-0/1-0	410-214590-3	GM31X13.D	04/01/2025 03:26
HD-COD-SW-9-0/1-0	410-214590-4	GM31X14.D	04/01/2025 03:48
HD-COD-SW-13-0/1-0	410-214590-5	GM31X15.D	04/01/2025 04:10
HD-COD-SW-15-0/1-0	410-214590-6	GM31X16.D	04/01/2025 04:32
HD-COD-SW-15-0/1-0 MS MS	410-214590-6 MS	GM31X17.D	04/01/2025 04:54
HD-COD-SW-15-0/1-0 MSD MSD	410-214590-6 MSD	GM31X18.D	04/01/2025 05:16
HD-COD-SW-16-0/1-0	410-214590-7	GM31X19.D	04/01/2025 05:38
HD-COD-SW-26-0/1-0	410-214590-9	GM31X20.D	04/01/2025 06:00
HD-COD-SW-27-0/1-0	410-214590-10	GM31X21.D	04/01/2025 06:22
HD-COD-SW-28-0/1-0	410-214590-11	GM31X22.D	04/01/2025 06:44
HD-COD-SW-29-0/1-0	410-214590-12	GM31X23.D	04/01/2025 07:06
HD-COD-SW-17-0/1-0	410-214590-8	GM31X24.D	04/01/2025 07:28
HD-COD-SW-17-0/1-0 DL	410-214590-8 DL	GM31X25.D	04/01/2025 07:50
HD-QC1-0/1-1	410-214590-13	GM31X26.D	04/01/2025 08:12
HD-QC1-0/1-1 DL	410-214590-13 DL	GM31X27.D	04/01/2025 08:34

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

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

Lab File ID: GN30T01.D

BFB Injection Date: 11/30/2020

Instrument ID: 16334

BFB Injection Time: 11:46

Analysis Batch No.: 70996

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.6
75	30.0 - 60.0 % of mass 95	46.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.2 (0.3) 1
174	Greater than 50% of mass 95	79.8
175	5.0 - 9.0 % of mass 174	6.0 (7.5) 1
176	95.0 - 101.0 % of mass 174	76.1 (95.4) 1
177	5.0 - 9.0 % of mass 176	5.2 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-70996/3	GN30I01.D	11/30/2020	12:50
	ICIS 410-70996/4	GN30I02.D	11/30/2020	13:12
	IC 410-70996/5	GN30I03.D	11/30/2020	13:34
	IC 410-70996/6	GN30I04.D	11/30/2020	13:56
	IC 410-70996/7	GN30I05.D	11/30/2020	14:19
	IC 410-70996/8	GN30I06.D	11/30/2020	14:41
	IC 410-70996/9	GN30I07.D	11/30/2020	15:03
	ICV 410-70996/19	GN30V11.D	11/30/2020	18:45

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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Lab File ID: GD03T01.D BFB Injection Date: 12/03/2024

Instrument ID: 16334 BFB Injection Time: 15:12

Analysis Batch No.: 581544

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.4
75	30.0 - 60.0 % of mass 95	46.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.4
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	82.4
175	5.0 - 9.0 % of mass 174	6.5 (7.9) 1
176	95.0 - 101.0 % of mass 174	80.2 (97.3) 1
177	5.0 - 9.0 % of mass 176	5.0 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-581544/13	GD03X12.D	12/03/2024	16:05
	IC 410-581544/14	GD03X13.D	12/03/2024	16:27
	IC 410-581544/15	GD03X14.D	12/03/2024	16:50
	IC 410-581544/16	GD03X15.D	12/03/2024	17:12
	IC 410-581544/17	GD03X16.D	12/03/2024	17:34
	ICIS 410-581544/18	GD03X17.D	12/03/2024	17:56
	IC 410-581544/19	GD03X18.D	12/03/2024	18:18
	ICV 410-581544/21	GD03X20.D	12/03/2024	19:02

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

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

Lab File ID: GM31T03.D

BFB Injection Date: 03/31/2025

Instrument ID: 16334

BFB Injection Time: 22:46

Analysis Batch No.: 624273

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.1
75	30.0 - 60.0 % of mass 95	46.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	82.2
175	5.0 - 9.0 % of mass 174	6.9 (8.4) 1
176	95.0 - 101.0 % of mass 174	78.7 (95.7) 1
177	5.0 - 9.0 % of mass 176	5.1 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-624273/3	GM31X02.D	03/31/2025	23:22
	LCS 410-624273/4	GM31X03.D	03/31/2025	23:44
	MB 410-624273/6	GM31X05.D	04/01/2025	0:28
HD-QC1-0/1-2	410-214590-14	GM31X06.D	04/01/2025	0:50
HD-COD-SW-6-0/1-0	410-214590-1	GM31X11.D	04/01/2025	2:41
HD-COD-SW-7-0/1-0	410-214590-2	GM31X12.D	04/01/2025	3:03
HD-COD-SW-8-0/1-0	410-214590-3	GM31X13.D	04/01/2025	3:26
HD-COD-SW-9-0/1-0	410-214590-4	GM31X14.D	04/01/2025	3:48
HD-COD-SW-13-0/1-0	410-214590-5	GM31X15.D	04/01/2025	4:10
HD-COD-SW-15-0/1-0	410-214590-6	GM31X16.D	04/01/2025	4:32
HD-COD-SW-15-0/1-0 MS MS	410-214590-6 MS	GM31X17.D	04/01/2025	4:54
HD-COD-SW-15-0/1-0 MSD MSD	410-214590-6 MSD	GM31X18.D	04/01/2025	5:16
HD-COD-SW-16-0/1-0	410-214590-7	GM31X19.D	04/01/2025	5:38
HD-COD-SW-26-0/1-0	410-214590-9	GM31X20.D	04/01/2025	6:00
HD-COD-SW-27-0/1-0	410-214590-10	GM31X21.D	04/01/2025	6:22
HD-COD-SW-28-0/1-0	410-214590-11	GM31X22.D	04/01/2025	6:44
HD-COD-SW-29-0/1-0	410-214590-12	GM31X23.D	04/01/2025	7:06
HD-COD-SW-17-0/1-0	410-214590-8	GM31X24.D	04/01/2025	7:28
HD-COD-SW-17-0/1-0 DL	410-214590-8 DL	GM31X25.D	04/01/2025	7:50
HD-QC1-0/1-1	410-214590-13	GM31X26.D	04/01/2025	8:12
HD-QC1-0/1-1 DL	410-214590-13 DL	GM31X27.D	04/01/2025	8:34

FORM VIII

Job No.: 410-214590-1

Sample No.: ICIS 410-581544/18

Date Analyzed: 12/03/2024 17:56

Instrument ID: 16334

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

Lab File ID (Standard): GD03X17.D

Heated Purge: (Y/N) N

Calibration ID: 67963

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		80518	3.63	2029850	7.05	1481835	10.71
UPPER LIMIT		161036	4.13	4059700	7.55	2963670	11.21
LOWER LIMIT		40259	3.13	1014925	6.55	740918	10.21
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-581544/21		73418	3.62	2201121	7.04	1611220	10.71
CCVIS 410-624273/3		57194	3.62	1486867	7.06	1136922	10.70

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.: 410-214590-1

Sample No.: ICIS 410-581544/18

Date Analyzed: 12/03/2024 17:56

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

Heated Purge: (Y/N) N

Calibration ID: 67963

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		792188	12.64				
UPPER LIMIT		1584376	13.14				
LOWER LIMIT		396094	12.14				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-581544/21		853308	12.64				
CCVIS 410-624273/3		623255	12.62				

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.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-624273/3 Date Analyzed: 03/31/2025 23:22

Instrument ID: 16334 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): GM31X02.D Heated Purge: (Y/N) N

Calibration ID: 67963

	TBA _d 10		FB		CBZ _d 5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	57194	3.62	1486867	7.06	1136922	10.70
UPPER LIMIT	114388	4.12	2973734	7.56	2273844	11.20
LOWER LIMIT	28597	3.12	743434	6.56	568461	10.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 410-624273/4		63188	3.63	1713359	7.06	1313018 10.70
MB 410-624273/6		57371	3.64	1427591	7.06	1085415 10.70
410-214590-14	HD-QC1-0/1-2	57824	3.65	1554040	7.06	1172553 10.70
410-214590-1	HD-COD-SW-6-0/1-0	46234	3.64	1313677	7.06	1008835 10.70
410-214590-2	HD-COD-SW-7-0/1-0	67020	3.62	1498248	7.06	1154176 10.70
410-214590-3	HD-COD-SW-8-0/1-0	55023	3.64	1468529	7.06	1143301 10.70
410-214590-4	HD-COD-SW-9-0/1-0	49013	3.63	1335355	7.06	1034708 10.70
410-214590-5	HD-COD-SW-13-0/1-0	49327	3.63	1335945	7.06	1063348 10.70
410-214590-6	HD-COD-SW-15-0/1-0	49781	3.65	1364527	7.06	1076335 10.70
410-214590-6 MS	HD-COD-SW-15-0/1-0 MS MS	55417	3.62	1551767	7.06	1169162 10.70
410-214590-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	60361	3.64	1675742	7.06	1273574 10.70
410-214590-7	HD-COD-SW-16-0/1-0	56997	3.64	1365471	7.06	1065660 10.70
410-214590-9	HD-COD-SW-26-0/1-0	57857	3.61	1502951	7.06	1170113 10.70
410-214590-10	HD-COD-SW-27-0/1-0	56885	3.67	1532763	7.06	1209685 10.70
410-214590-11	HD-COD-SW-28-0/1-0	53570	3.62	1373881	7.06	1040119 10.70
410-214590-12	HD-COD-SW-29-0/1-0	64703	3.64	1581241	7.06	1228168 10.70
410-214590-8	HD-COD-SW-17-0/1-0	44582	3.64	1332393	7.06	1117160 10.70
410-214590-8 DL	HD-COD-SW-17-0/1-0 DL	47003	3.62	1516524	7.06	1189108 10.70
410-214590-13	HD-QC1-0/1-1	54704	3.62	1465932	7.06	1181353 10.70
410-214590-13 DL	HD-QC1-0/1-1 DL	31442	3.63	1311055	7.06	1000576 10.70

TBA_d10 = t-Butyl alcohol-d₁₀ (IS)

TBA_d10 = 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.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-624273/3 Date Analyzed: 03/31/2025 23:22

Instrument ID: 16334 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): GM31X02.D Heated Purge: (Y/N) N

Calibration ID: 67963

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		623255	12.62				
UPPER LIMIT		1246510	13.12				
LOWER LIMIT		311628	12.12				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-624273/4		714554	12.62				
MB 410-624273/6		566046	12.62				
410-214590-14	HD-QC1-0/1-2	625635	12.62				
410-214590-1	HD-COD-SW-6-0/1-0	530776	12.62				
410-214590-2	HD-COD-SW-7-0/1-0	612336	12.62				
410-214590-3	HD-COD-SW-8-0/1-0	597290	12.62				
410-214590-4	HD-COD-SW-9-0/1-0	542410	12.62				
410-214590-5	HD-COD-SW-13-0/1-0	553529	12.62				
410-214590-6	HD-COD-SW-15-0/1-0	563968	12.62				
410-214590-6 MS	HD-COD-SW-15-0/1-0 MS MS	653942	12.62				
410-214590-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	704204	12.62				
410-214590-7	HD-COD-SW-16-0/1-0	560413	12.62				
410-214590-9	HD-COD-SW-26-0/1-0	616610	12.62				
410-214590-10	HD-COD-SW-27-0/1-0	641488	12.62				
410-214590-11	HD-COD-SW-28-0/1-0	555558	12.62				
410-214590-12	HD-COD-SW-29-0/1-0	651928	12.62				
410-214590-8	HD-COD-SW-17-0/1-0	572417	12.62				
410-214590-8 DL	HD-COD-SW-17-0/1-0 DL	633135	12.62				
410-214590-13	HD-QC1-0/1-1	603798	12.62				
410-214590-13 DL	HD-QC1-0/1-1 DL	519685	12.62				

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.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-1

Matrix: Water

Lab File ID: GM31X11.D

Analysis Method: 8260D

Date Collected: 03/27/2025 10:40

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 02:41

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

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	^c cn	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	0.47	J cn	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.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-214590-1

Matrix: Water Lab File ID: GM31X11.D

Analysis Method: 8260D Date Collected: 03/27/2025 10:40

Sample wt/vol: 25 (mL) Date Analyzed: 04/01/2025 02:41

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.: 624273 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 16334

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)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
2037-26-5	Toluene-d8 (Surr)	92		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X11.D
 Lims ID: 410-214590-A-1
 Client ID: HD-COD-SW-6-0/1-0
 Sample Type: Client
 Inject. Date: 01-Apr-2025 02:41:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-012
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Apr-2025 14:31:24 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1629

First Level Reviewer: QD9U

Date: 01-Apr-2025 14:31:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.885				ND	7
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.276				ND	
10 Chloroethane	64		2.318				ND	7
18 1,1-Dichloroethene	96		3.038				ND	
19 Acetone	43		3.068				ND	U
24 Carbon disulfide	76	3.294	3.300	-0.006	97	51275	0.4721	M
29 Methylene Chloride	84		3.592				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.641	3.617	0.024	21	46234	50.0	
33 Methyl tert-butyl ether	73		3.946				ND	
34 trans-1,2-Dichloroethene	96		3.946				ND	
37 1,1-Dichloroethane	63		4.574				ND	
41 2-Butanone (MEK)	43		5.421				ND	
42 cis-1,2-Dichloroethene	96		5.433				ND	
49 Chlorobromomethane	128		5.775				ND	
51 Chloroform	83		5.933				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.153	6.153	0.000	93	325604	10.5	
53 1,1,1-Trichloroethane	97		6.159				ND	
55 Carbon tetrachloride	117		6.372				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.616	-0.006	65	57481	9.72	
60 Benzene	78		6.641				ND	
61 1,2-Dichloroethane	62		6.714				ND	
* 64 Fluorobenzene (IS)	96	7.061	7.061	0.000	99	1313677	10.0	
68 Trichloroethene	95		7.549				ND	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.238				ND	
81 cis-1,3-Dichloropropene	75		8.805				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012				ND	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1291797	9.23	
84 Toluene	92	9.232	9.225	0.007	97	3607	0.0371	
85 trans-1,3-Dichloropropene	75		9.524				ND	
107 1,1,2-Trichloroethane	97		9.738				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	9.829	9.823	0.006	85	1148	0.0262	
110 2-Hexanone	43		9.981				ND	
112 Chlorodibromomethane	129		10.134				ND	
113 Ethylene Dibromide	107		10.237				ND	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	85	1008835	10.0	
116 Chlorobenzene	112		10.725				ND	
117 1,1,1,2-Tetrachloroethane	131		10.817				ND	
118 Ethylbenzene	91		10.823				ND	
120 m-Xylene & p-Xylene	106		10.945				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
121 o-Xylene	106		11.280				ND	
122 Styrene	104		11.298				ND	
123 Bromoform	173		11.451				ND	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	88	462987	9.57	
128 1,1,2,2-Tetrachloroethane	83		11.841				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	95	530776	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Report Date: 01-Apr-2025 14:31:25

Chrom Revision: 2.3 21-Mar-2025 14:03:38

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X11.D

Injection Date: 01-Apr-2025 02:41:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-A-1

Lab Sample ID: 410-214590-1

Worklist Smp#: 12

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

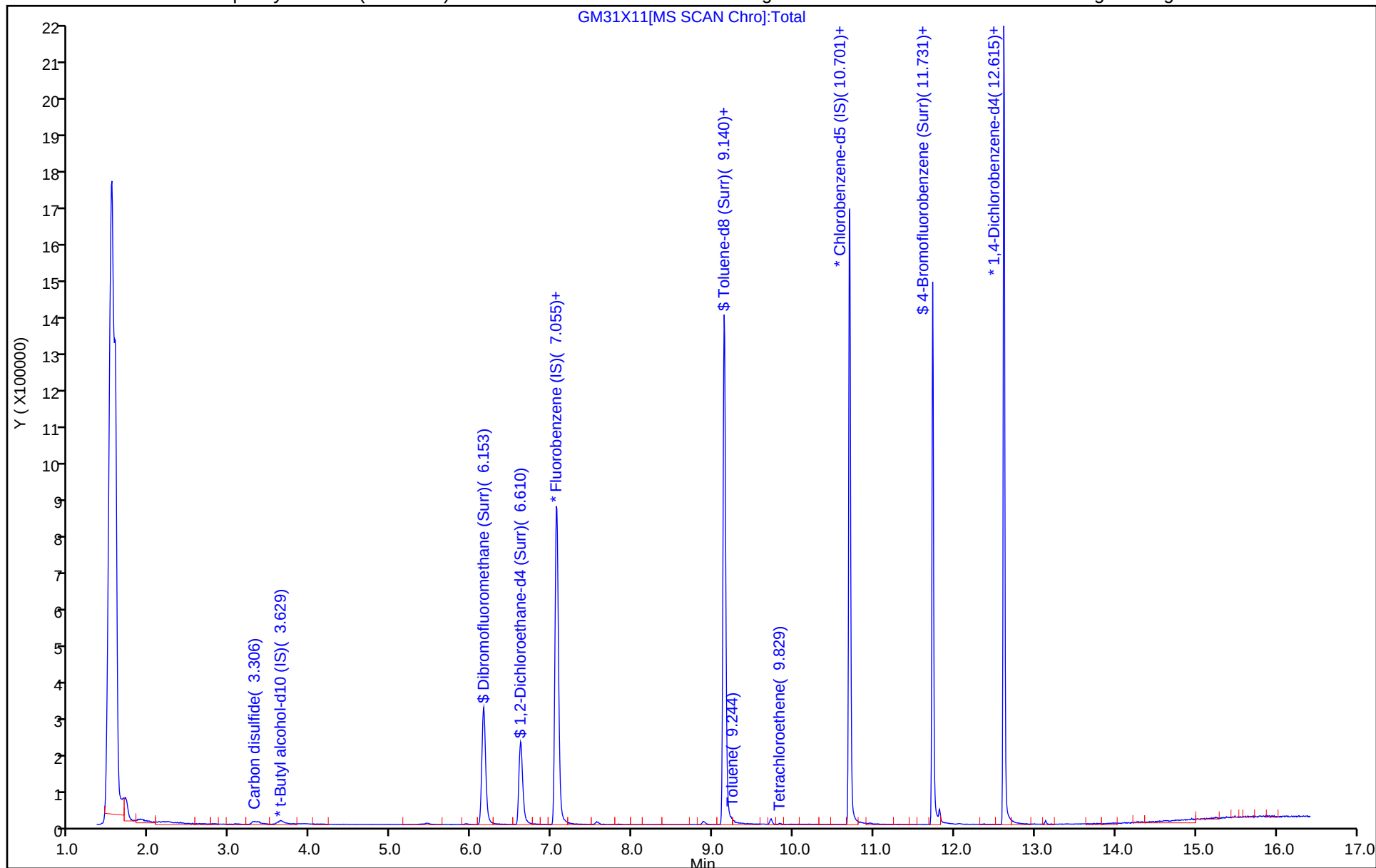
ALS Bottle#: 11

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X11.D
Lims ID: 410-214590-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 01-Apr-2025 02:41:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-012
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Apr-2025 14:31:24 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: QD9U

Date: 01-Apr-2025 14:31:24

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.5	105.05
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.72	97.21
\$ 83 Toluene-d8 (Surr)	10.0	9.23	92.25
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.57	95.74

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X11.D

Injection Date: 01-Apr-2025 02:41:30

Instrument ID: 16334

Lims ID: 410-214590-A-1

Lab Sample ID: 410-214590-1

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

Operator ID: gaw91131

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 25.000 mL

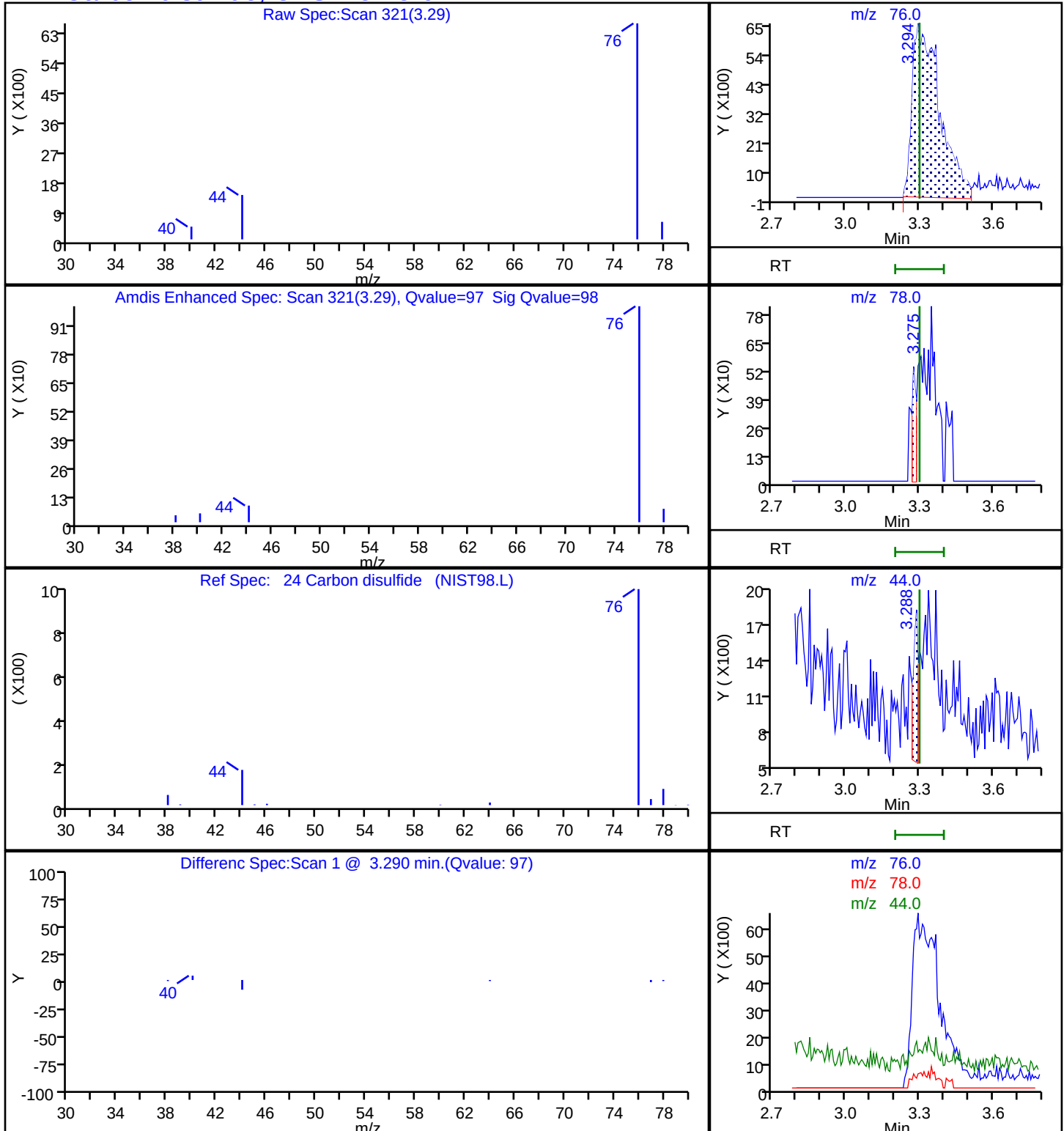
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

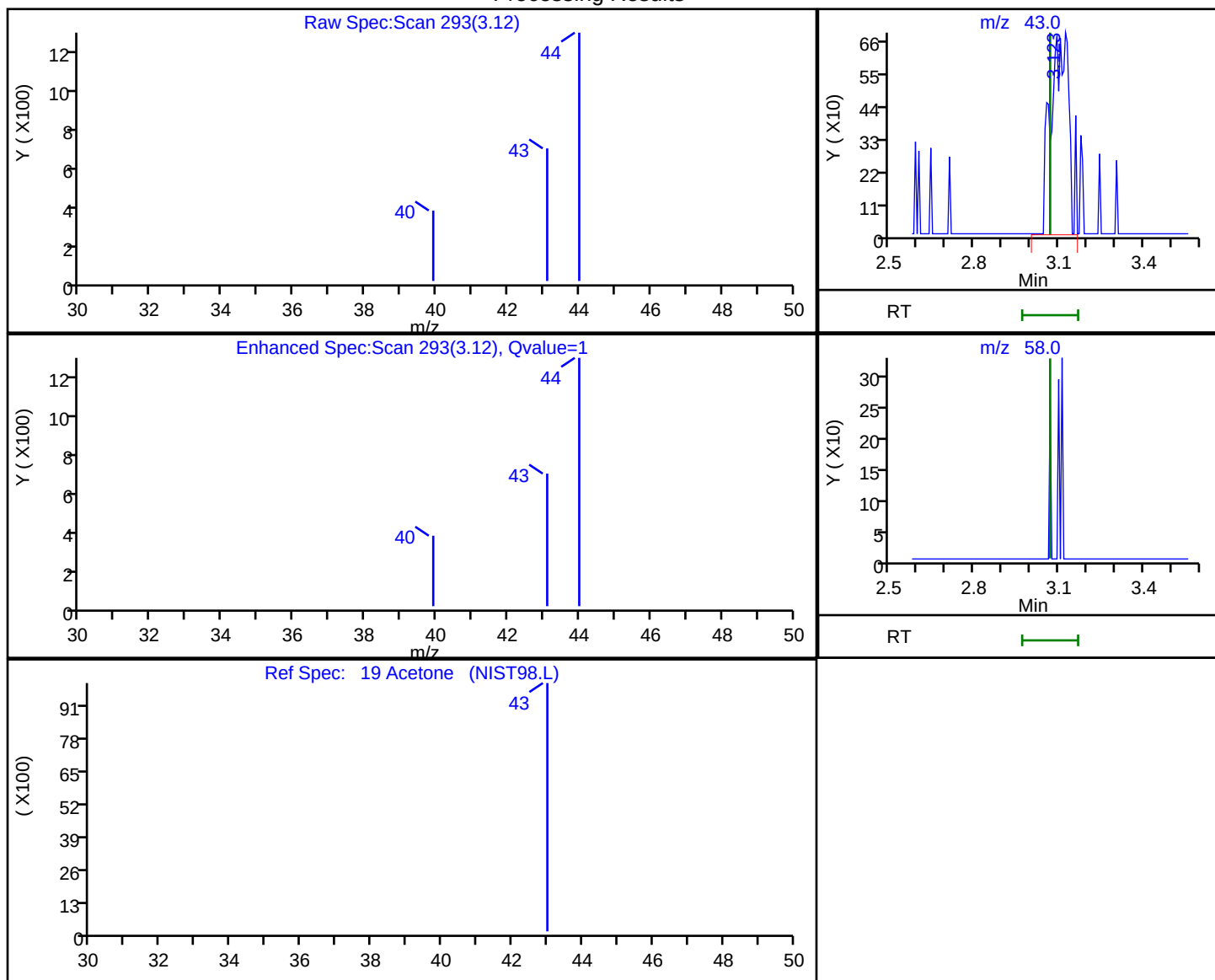
24 Carbon disulfide, CAS: 75-15-0

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X11.D
Injection Date: 01-Apr-2025 02:41:30 Instrument ID: 16334
Lims ID: 410-214590-A-1 Lab Sample ID: 410-214590-1
Client ID: HD-COD-SW-6-0/1-0
Operator ID: gaw91131 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

19 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.12	43.00	3105	1.170407
3.07	58.00	0	

Reviewer: QD9U, 01-Apr-2025 14:30:51 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

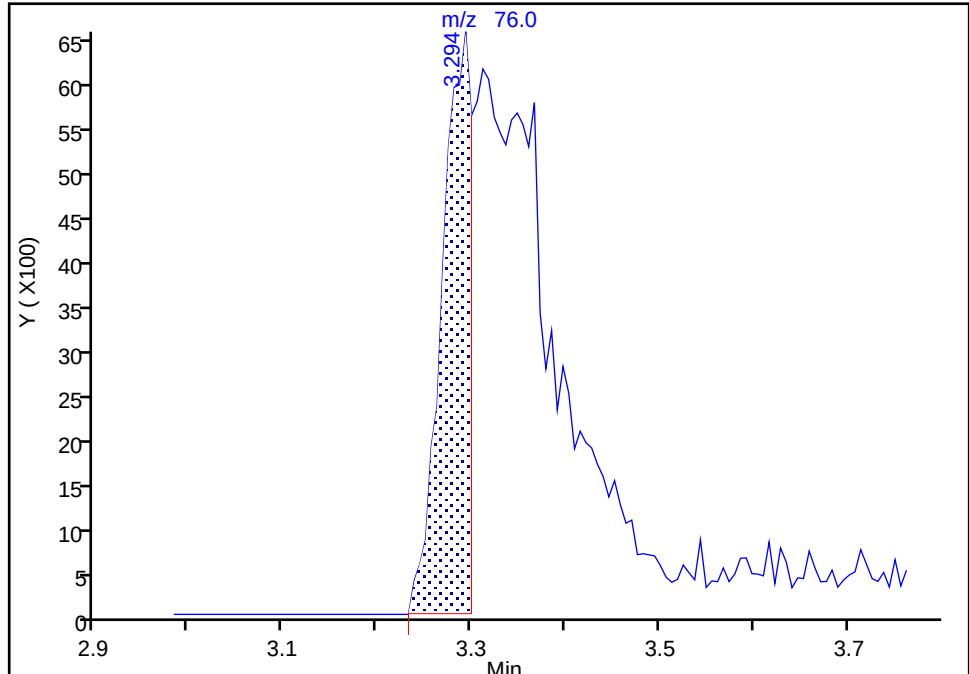
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X11.D
Injection Date: 01-Apr-2025 02:41:30 Instrument ID: 16334
Lims ID: 410-214590-A-1 Lab Sample ID: 410-214590-1
Client ID: HD-COD-SW-6-0/1-0
Operator ID: gaw91131 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

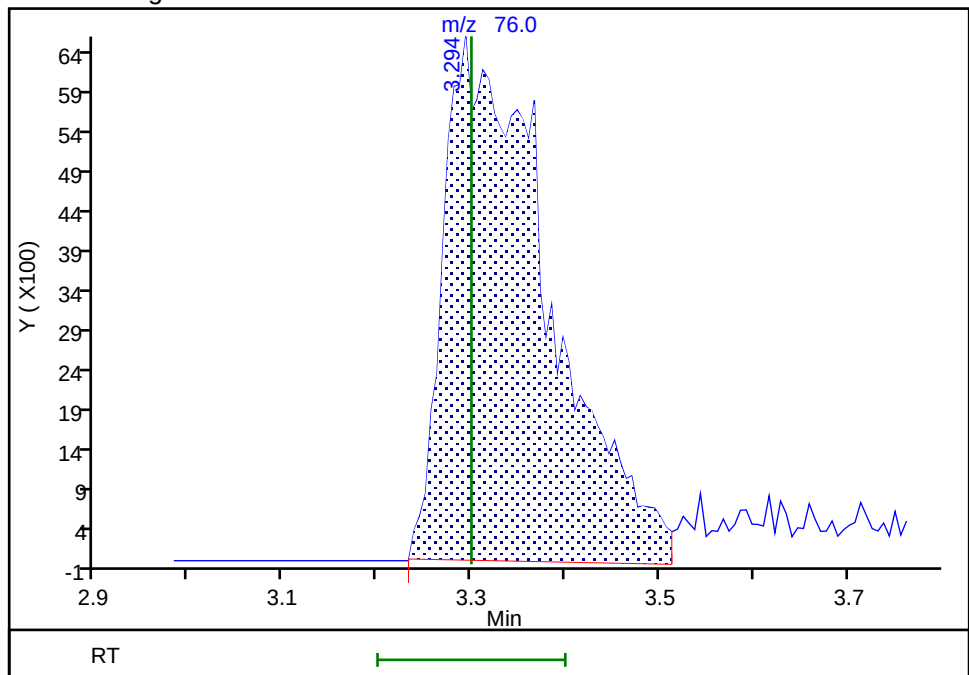
RT: 3.29
Area: 14445
Amount: 0.132992
Amount Units: ug/l

Processing Integration Results



RT: 3.29
Area: 51275
Amount: 0.472079
Amount Units: ug/l

Manual Integration Results



Reviewer: QD9U, 01-Apr-2025 14:31:03 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.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-2

Matrix: Water

Lab File ID: GM31X12.D

Analysis Method: 8260D

Date Collected: 03/27/2025 11:18

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 03:03

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

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	^c cn	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	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.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-214590-2

Matrix: Water Lab File ID: GM31X12.D

Analysis Method: 8260D Date Collected: 03/27/2025 11:18

Sample wt/vol: 25 (mL) Date Analyzed: 04/01/2025 03:03

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.: 624273 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 16334

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	0.19	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)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X12.D
 Lims ID: 410-214590-A-2
 Client ID: HD-COD-SW-7-0/1-0
 Sample Type: Client
 Inject. Date: 01-Apr-2025 03:03:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-013
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Apr-2025 01:46:08 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1629

First Level Reviewer: QD9U

Date: 01-Apr-2025 14:53:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.885				ND	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.276				ND	
10 Chloroethane	64		2.318				ND	7
18 1,1-Dichloroethene	96		3.038				ND	
19 Acetone	43	3.093	3.068	0.024	70	3793	0.9863	
24 Carbon disulfide	76		3.300				ND	7
29 Methylene Chloride	84		3.592				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.623	3.617	0.006	22	67020	50.0	
33 Methyl tert-butyl ether	73		3.946				ND	
34 trans-1,2-Dichloroethene	96		3.946				ND	
37 1,1-Dichloroethane	63		4.574				ND	
41 2-Butanone (MEK)	43		5.421				ND	
42 cis-1,2-Dichloroethene	96		5.433				ND	
49 Chlorobromomethane	128		5.775				ND	
51 Chloroform	83	5.946	5.933	0.013	91	8799	0.1247	
\$ 52 Dibromofluoromethane (Surr)	113	6.153	6.153	0.000	93	376943	10.7	
53 1,1,1-Trichloroethane	97		6.159				ND	
55 Carbon tetrachloride	117		6.372				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.616	0.000	65	67954	10.1	
60 Benzene	78		6.641				ND	
61 1,2-Dichloroethane	62		6.714				ND	
* 64 Fluorobenzene (IS)	96	7.055	7.061	-0.006	99	1498248	10.0	
68 Trichloroethene	95	7.561	7.549	0.012	94	8029	0.1879	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.238				ND	
81 cis-1,3-Dichloropropene	75		8.805				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012				ND	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1511052	9.43	
84 Toluene	92	9.225	9.225	0.000	96	3812	0.0343	
85 trans-1,3-Dichloropropene	75		9.524				ND	
107 1,1,2-Trichloroethane	97		9.738				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	9.829	9.823	0.006	92	3435	0.0684	
110 2-Hexanone	43		9.981				ND	
112 Chlorodibromomethane	129		10.134				ND	
113 Ethylene Dibromide	107		10.237				ND	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	85	1154176	10.0	
116 Chlorobenzene	112		10.725				ND	
117 1,1,1,2-Tetrachloroethane	131		10.817				ND	
118 Ethylbenzene	91		10.823				ND	
120 m-Xylene & p-Xylene	106		10.945				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
121 o-Xylene	106		11.280				ND	
122 Styrene	104		11.298				ND	
123 Bromoform	173		11.451				ND	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	89	535100	9.67	
128 1,1,2,2-Tetrachloroethane	83		11.841				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	95	612336	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Report Date: 01-Apr-2025 14:53:30

Chrom Revision: 2.3 21-Mar-2025 14:03:38

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X12.D

Injection Date: 01-Apr-2025 03:03:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-A-2

Lab Sample ID: 410-214590-2

Worklist Smp#: 13

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

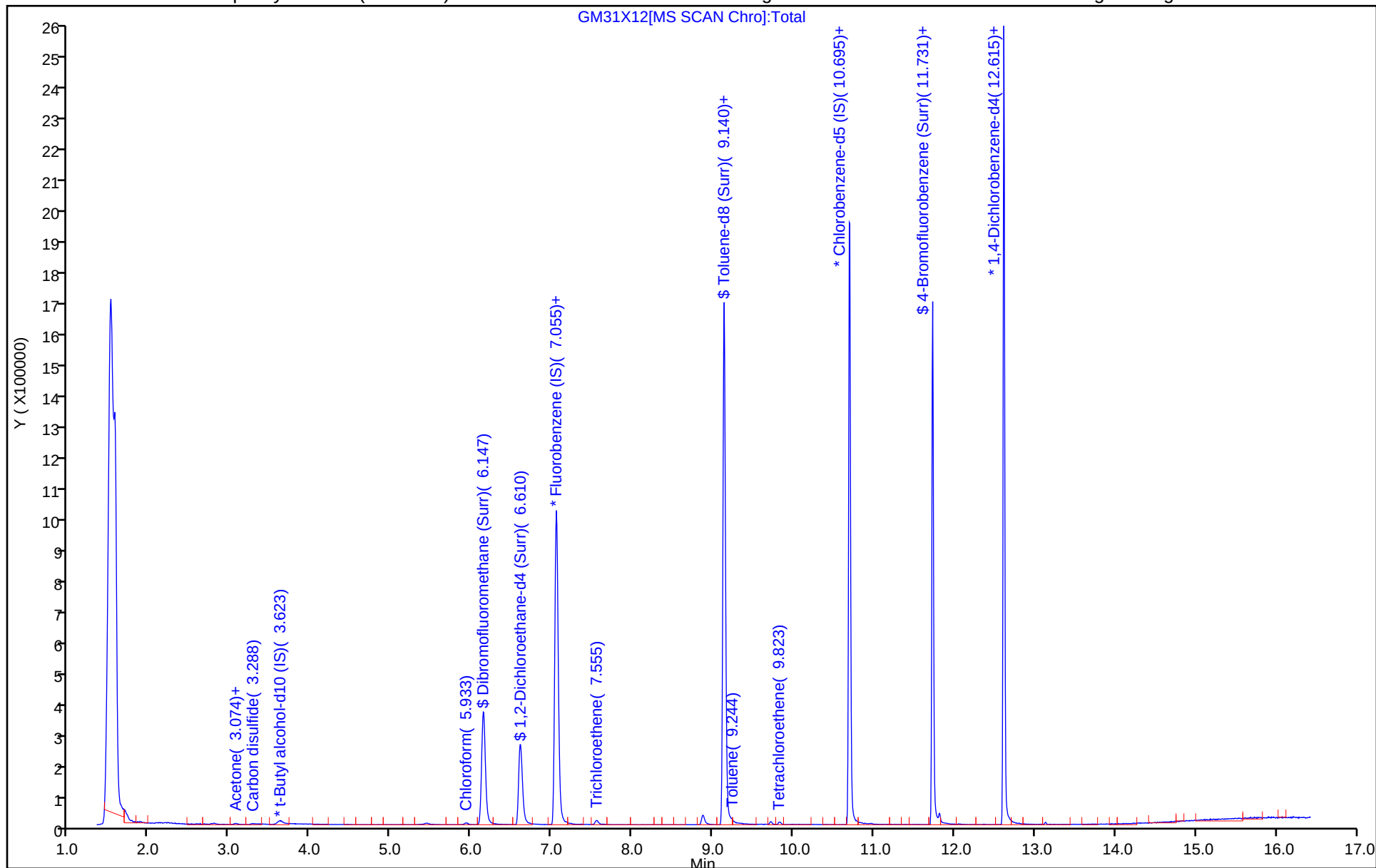
ALS Bottle#: 12

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X12.D
Lims ID: 410-214590-A-2
Client ID: HD-COD-SW-7-0/1-0
Sample Type: Client
Inject. Date: 01-Apr-2025 03:03:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-013
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Apr-2025 01:46:08 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: QD9U

Date: 01-Apr-2025 14:53:29

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.7	106.63
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	100.77
\$ 83 Toluene-d8 (Surr)	10.0	9.43	94.32
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.67	96.72

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X12.D

Injection Date: 01-Apr-2025 03:03:30

Instrument ID: 16334

Lims ID: 410-214590-A-2

Lab Sample ID: 410-214590-2

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

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

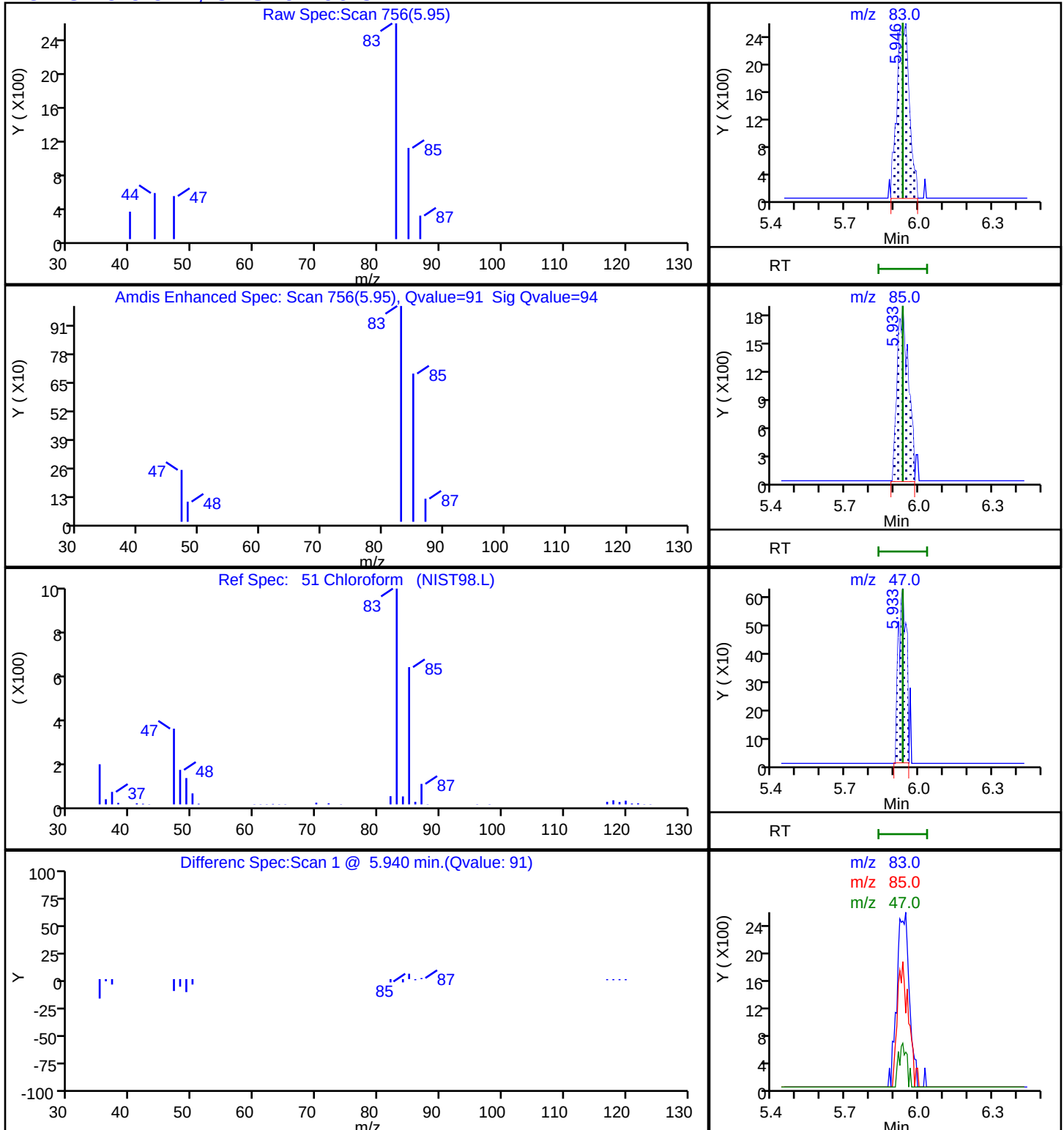
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

51 Chloroform, CAS: 67-66-3

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X12.D

Injection Date: 01-Apr-2025 03:03:30

Instrument ID: 16334

Lims ID: 410-214590-A-2

Lab Sample ID: 410-214590-2

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

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

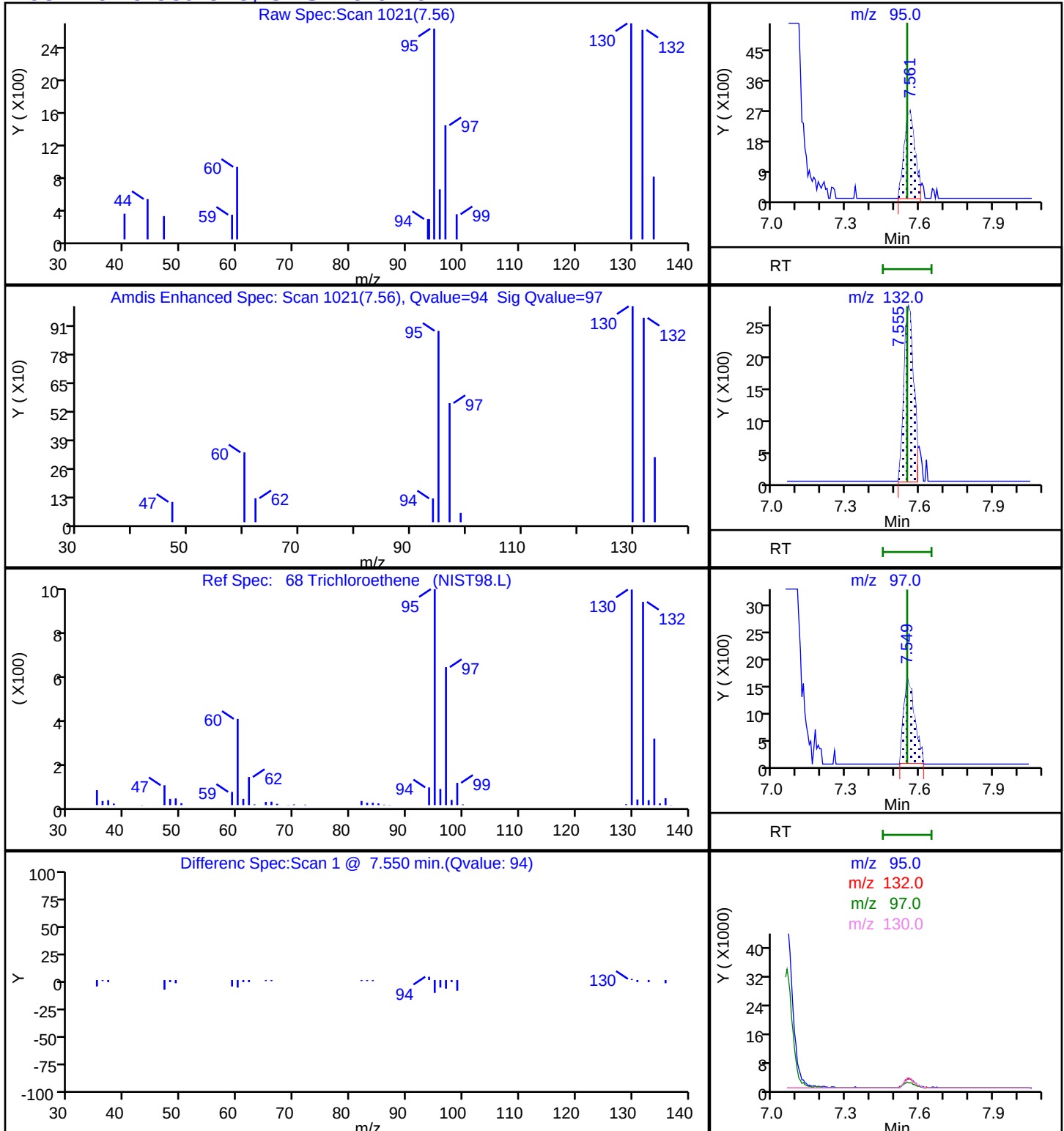
Dil. Factor: 1.0000

Method: MSV_16334_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.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-3

Matrix: Water

Lab File ID: GM31X13.D

Analysis Method: 8260D

Date Collected: 03/27/2025 08:42

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 03:26

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

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	^c cn	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	0.37	J cn	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	1.1		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-214590-3

Matrix: Water Lab File ID: GM31X13.D

Analysis Method: 8260D Date Collected: 03/27/2025 08:42

Sample wt/vol: 25 (mL) Date Analyzed: 04/01/2025 03:26

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.: 624273 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 16334

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)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X13.D
 Lims ID: 410-214590-A-3
 Client ID: HD-COD-SW-8-0/1-0
 Sample Type: Client
 Inject. Date: 01-Apr-2025 03:26:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-014
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Apr-2025 14:54:30 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1629

First Level Reviewer: QD9U

Date: 01-Apr-2025 14:54:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.879	1.885	-0.006	84	2800	0.0497	
6 Vinyl chloride	62		1.983				ND	
9 Bromomethane	94		2.276				ND	
10 Chloroethane	64		2.318				ND	7
18 1,1-Dichloroethene	96		3.038				ND	
19 Acetone	43		3.068				ND	U
24 Carbon disulfide	76	3.300	3.300	0.000	98	45303	0.3731	M
29 Methylene Chloride	84		3.592				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.641	3.617	0.024	21	55023	50.0	
33 Methyl tert-butyl ether	73		3.946				ND	
34 trans-1,2-Dichloroethene	96		3.946				ND	
37 1,1-Dichloroethane	63		4.574				ND	
41 2-Butanone (MEK)	43		5.421				ND	
42 cis-1,2-Dichloroethene	96		5.433				ND	
49 Chlorobromomethane	128		5.775				ND	
51 Chloroform	83	5.940	5.933	0.007	90	5811	0.0840	
\$ 52 Dibromofluoromethane (Surr)	113	6.153	6.153	0.000	93	369863	10.7	
53 1,1,1-Trichloroethane	97	6.165	6.159	0.006	35	4131	0.0674	
55 Carbon tetrachloride	117		6.372				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.604	6.616	-0.012	65	65993	9.98	
60 Benzene	78		6.641				ND	
61 1,2-Dichloroethane	62		6.714				ND	
* 64 Fluorobenzene (IS)	96	7.055	7.061	-0.006	99	1468529	10.0	
68 Trichloroethene	95		7.549				ND	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.238				ND	
81 cis-1,3-Dichloropropene	75		8.805				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012				ND	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1490029	9.39	
84 Toluene	92	9.226	9.225	0.001	5	3858	0.0350	
85 trans-1,3-Dichloropropene	75		9.524				ND	
107 1,1,2-Trichloroethane	97		9.738				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	9.823	9.823	0.000	97	52204	1.05	
110 2-Hexanone	43		9.981				ND	
112 Chlorodibromomethane	129		10.134				ND	
113 Ethylene Dibromide	107		10.237				ND	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	85	1143301	10.0	
116 Chlorobenzene	112		10.725				ND	
117 1,1,1,2-Tetrachloroethane	131		10.817				ND	
118 Ethylbenzene	91		10.823				ND	
120 m-Xylene & p-Xylene	106		10.945				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
121 o-Xylene	106		11.280				ND	
122 Styrene	104		11.298				ND	
123 Bromoform	173		11.451				ND	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	89	521154	9.51	
128 1,1,2,2-Tetrachloroethane	83		11.841				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	95	597290	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Report Date: 01-Apr-2025 14:54:30

Chrom Revision: 2.3 21-Mar-2025 14:03:38

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X13.D

Injection Date: 01-Apr-2025 03:26:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-A-3

Lab Sample ID: 410-214590-3

Worklist Smp#: 14

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

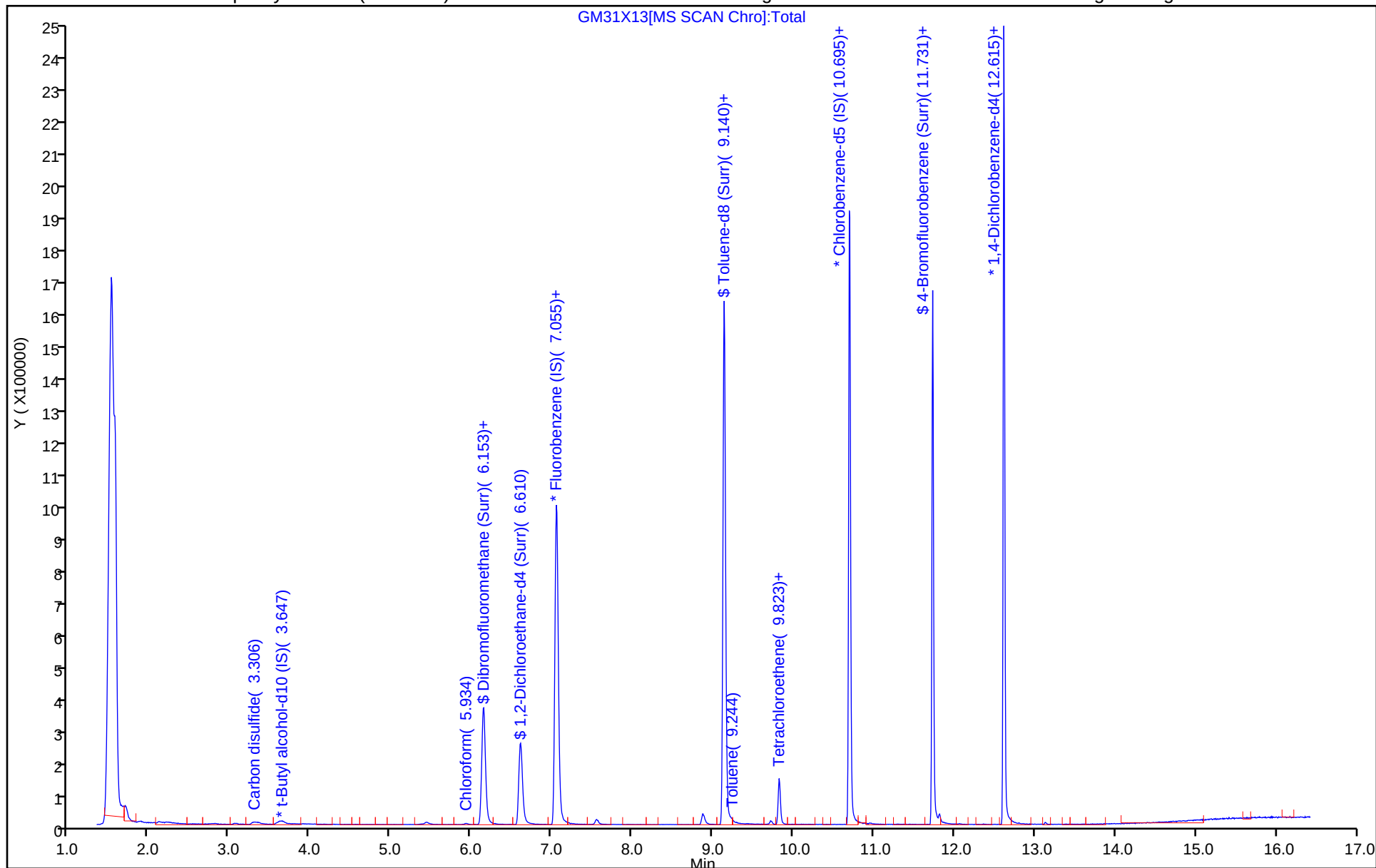
ALS Bottle#: 13

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X13.D
Lims ID: 410-214590-A-3
Client ID: HD-COD-SW-8-0/1-0
Sample Type: Client
Inject. Date: 01-Apr-2025 03:26:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-014
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Apr-2025 14:54:30 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: QD9U

Date: 01-Apr-2025 14:54:30

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.7	106.75
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.98	99.84
\$ 83 Toluene-d8 (Surr)	10.0	9.39	93.90
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.51	95.10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X13.D

Injection Date: 01-Apr-2025 03:26:30

Instrument ID: 16334

Lims ID: 410-214590-A-3

Lab Sample ID: 410-214590-3

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

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

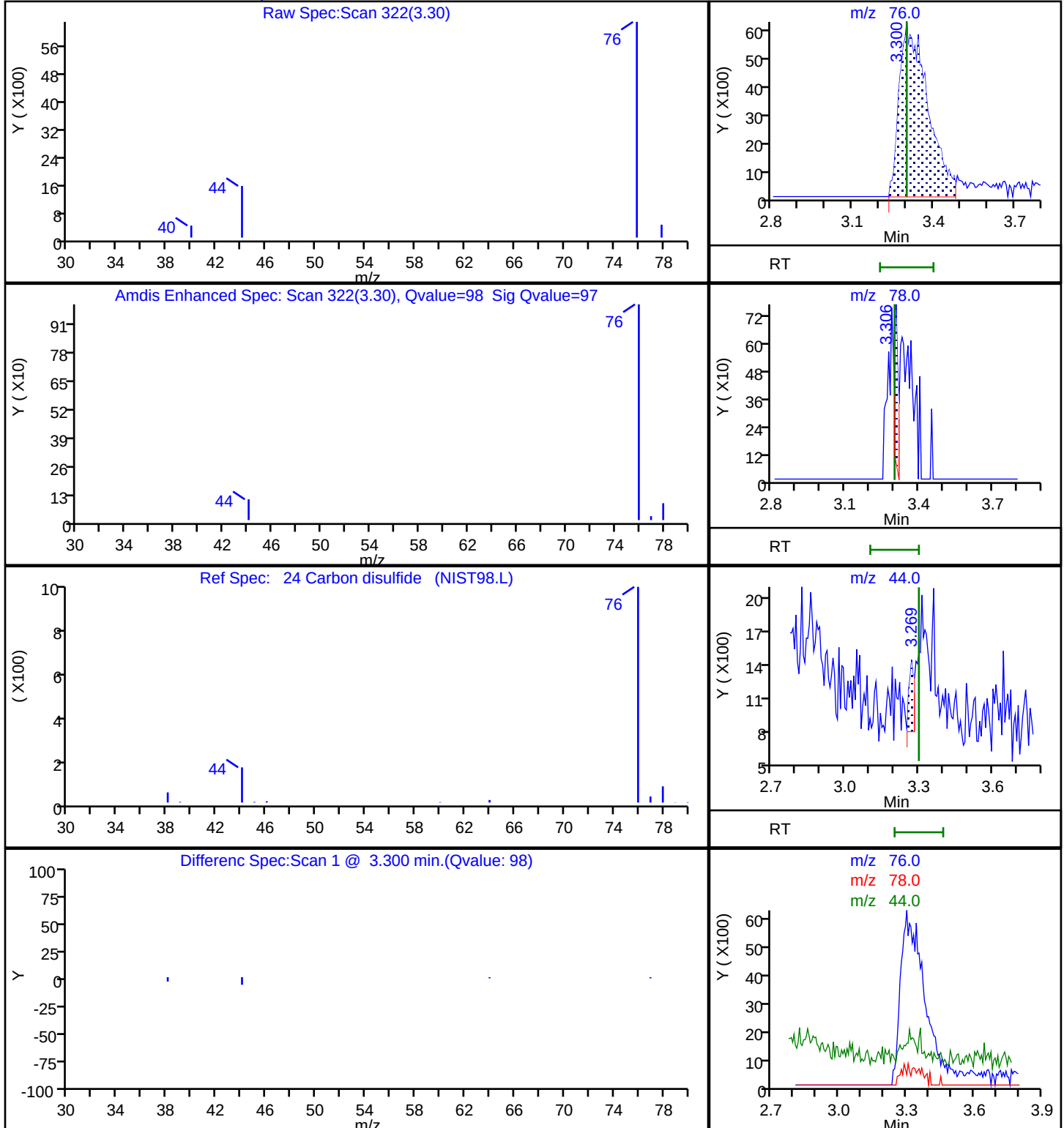
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

24 Carbon disulfide, CAS: 75-15-0

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X13.D

Injection Date: 01-Apr-2025 03:26:30

Instrument ID: 16334

Lims ID: 410-214590-A-3

Lab Sample ID: 410-214590-3

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

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

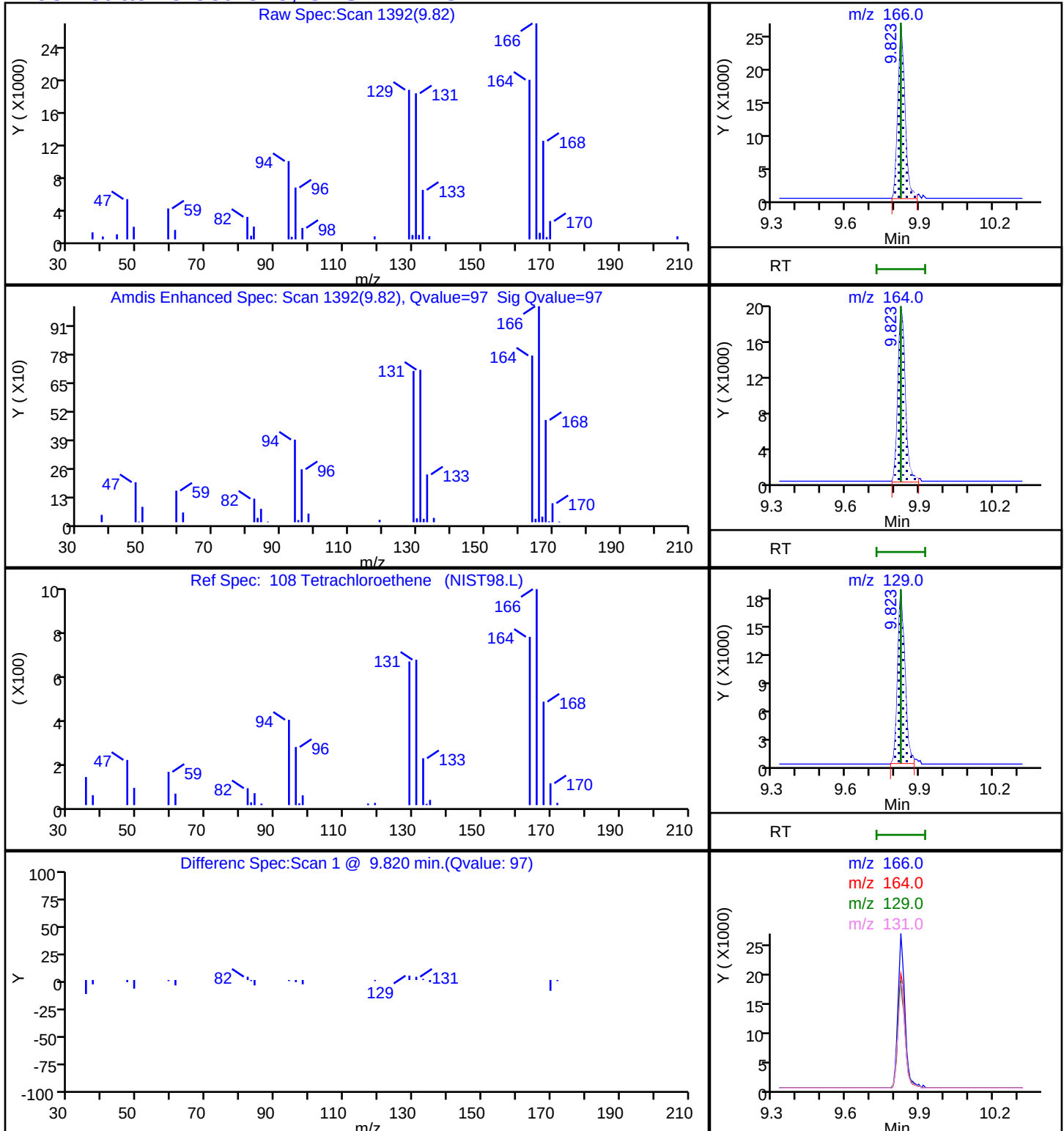
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

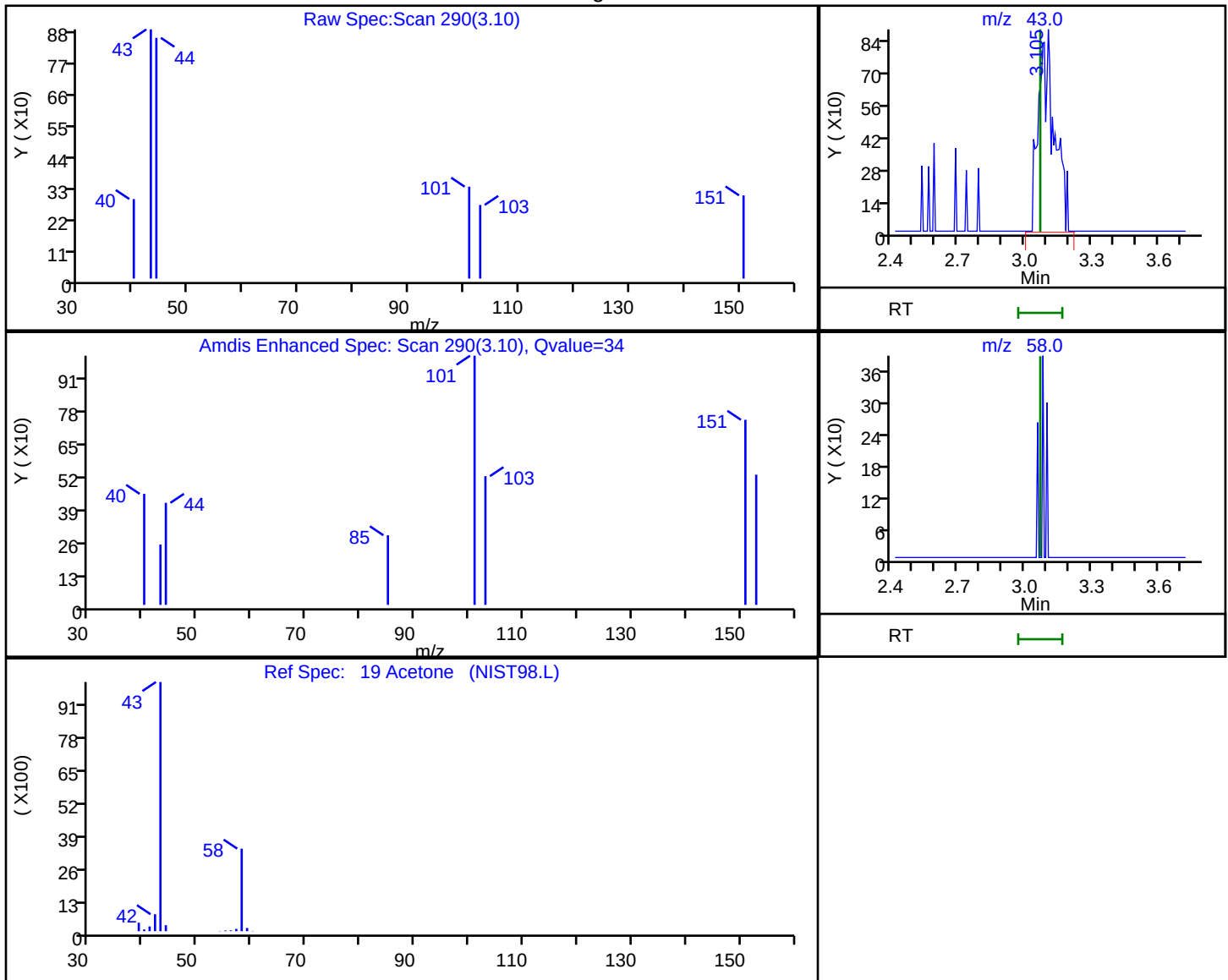
108 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X13.D
Injection Date: 01-Apr-2025 03:26:30 Instrument ID: 16334
Lims ID: 410-214590-A-3 Lab Sample ID: 410-214590-3
Client ID: HD-COD-SW-8-0/1-0
Operator ID: gaw91131 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

19 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.10	43.00	4432	1.403758
3.07	58.00	0	

Reviewer: QD9U, 01-Apr-2025 14:53:45 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

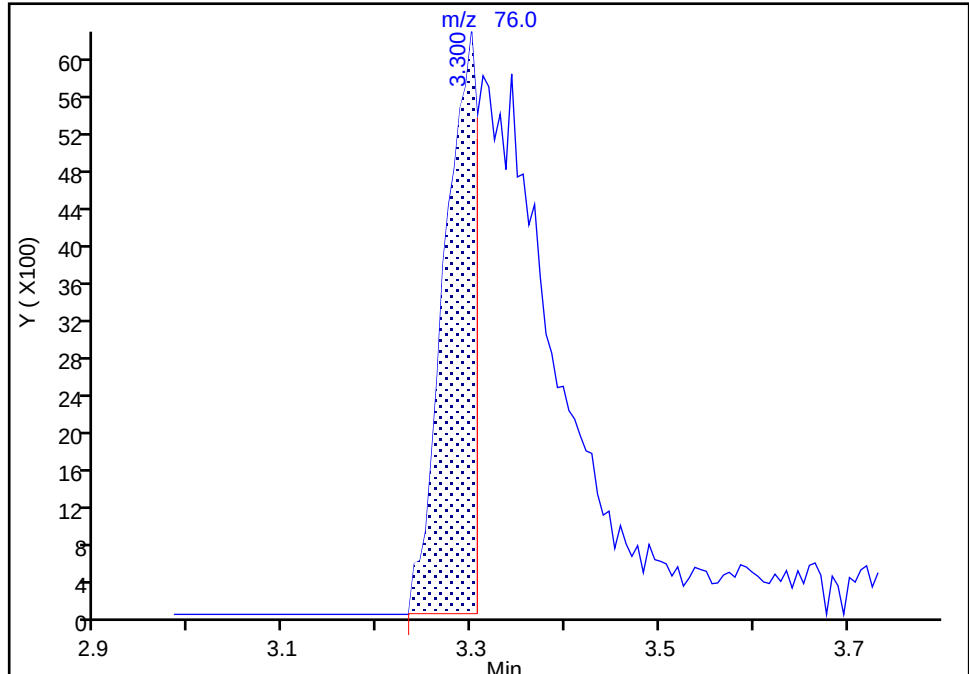
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X13.D
Injection Date: 01-Apr-2025 03:26:30 Instrument ID: 16334
Lims ID: 410-214590-A-3 Lab Sample ID: 410-214590-3
Client ID: HD-COD-SW-8-0/1-0
Operator ID: gaw91131 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

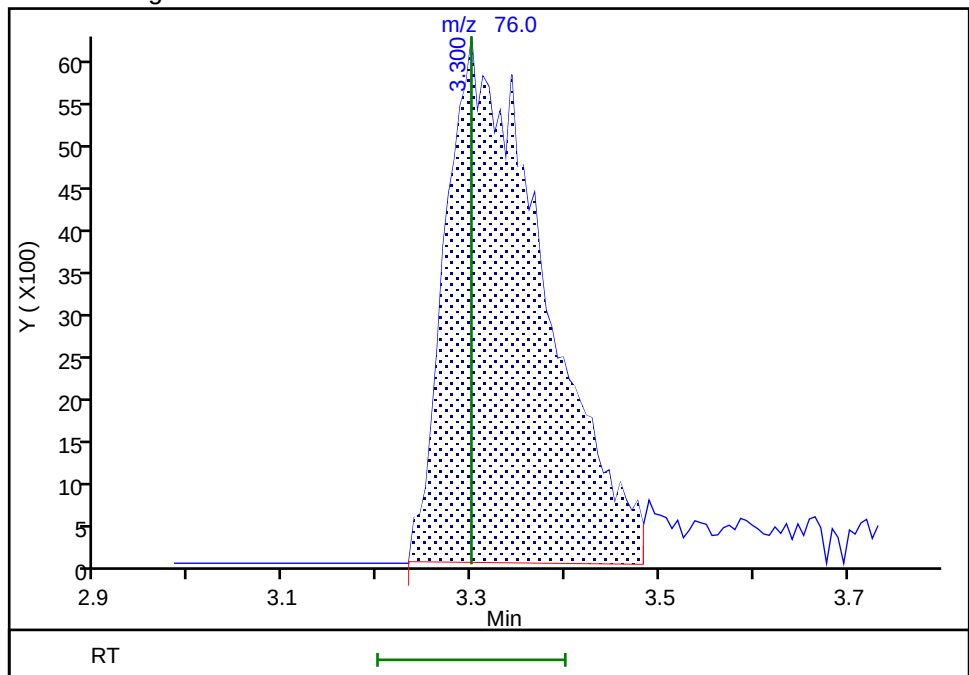
RT: 3.30
Area: 15318
Amount: 0.126159
Amount Units: ug/l

Processing Integration Results



RT: 3.30
Area: 45303
Amount: 0.373114
Amount Units: ug/l

Manual Integration Results



Reviewer: QD9U, 01-Apr-2025 14:54:00 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.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-4

Matrix: Water

Lab File ID: GM31X14.D

Analysis Method: 8260D

Date Collected: 03/27/2025 12:30

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 03:48

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

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	2.4	J	5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND	^c cn	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	0.45	J cn	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	0.21	J	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	0.28	J	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-214590-4

Matrix: Water Lab File ID: GM31X14.D

Analysis Method: 8260D Date Collected: 03/27/2025 12:30

Sample wt/vol: 25 (mL) Date Analyzed: 04/01/2025 03:48

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.: 624273 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 16334

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.24	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	0.15	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)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		80-120
2037-26-5	Toluene-d8 (Surr)	93		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X14.D
 Lims ID: 410-214590-A-4
 Client ID: HD-COD-SW-9-0/1-0
 Sample Type: Client
 Inject. Date: 01-Apr-2025 03:48:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-015
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Apr-2025 15:17:13 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1629

First Level Reviewer: QD9U

Date: 01-Apr-2025 15:17:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.885				ND	U
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.276				ND	
10 Chloroethane	64		2.318				ND	7
18 1,1-Dichloroethene	96		3.038				ND	
19 Acetone	43	3.068	3.068	0.000	65	6735	2.39	
24 Carbon disulfide	76	3.288	3.300	-0.012	99	49248	0.4461	M
29 Methylene Chloride	84		3.592				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.629	3.617	0.012	24	49013	50.0	
33 Methyl tert-butyl ether	73		3.946				ND	
34 trans-1,2-Dichloroethene	96		3.946				ND	
37 1,1-Dichloroethane	63		4.574				ND	
41 2-Butanone (MEK)	43		5.421				ND	
42 cis-1,2-Dichloroethene	96	5.434	5.433	0.001	81	2913	0.0752	
49 Chlorobromomethane	128		5.775				ND	
51 Chloroform	83	5.940	5.933	0.007	92	12963	0.2061	a
\$ 52 Dibromofluoromethane (Surr)	113	6.147	6.153	-0.006	93	342151	10.9	
53 1,1,1-Trichloroethane	97		6.159				ND	
55 Carbon tetrachloride	117		6.372				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.616	-0.006	65	58314	9.70	
60 Benzene	78	6.641	6.641	0.000	55	2021	0.0136	7Ma
61 1,2-Dichloroethane	62		6.714				ND	
* 64 Fluorobenzene (IS)	96	7.055	7.061	-0.006	99	1335355	10.0	
68 Trichloroethene	95	7.561	7.549	0.012	91	5706	0.1498	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83	8.238	8.238	0.000	1	1173	0.0285	
81 cis-1,3-Dichloropropene	75		8.805				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012				ND	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1335891	9.30	
84 Toluene	92	9.226	9.225	0.001	98	24196	0.2427	
85 trans-1,3-Dichloropropene	75		9.524				ND	
107 1,1,2-Trichloroethane	97		9.738				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	9.829	9.823	0.006	97	12637	0.2809	
110 2-Hexanone	43		9.981				ND	
112 Chlorodibromomethane	129		10.134				ND	
113 Ethylene Dibromide	107		10.237				ND	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	85	1034708	10.0	
116 Chlorobenzene	112		10.725				ND	
117 1,1,1,2-Tetrachloroethane	131		10.817				ND	
118 Ethylbenzene	91		10.823				ND	
120 m-Xylene & p-Xylene	106		10.945				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
121 o-Xylene	106		11.280				ND	
122 Styrene	104		11.298				ND	
123 Bromoform	173		11.451				ND	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	88	466241	9.40	
128 1,1,2,2-Tetrachloroethane	83		11.841				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	95	542410	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X14.D

Injection Date: 01-Apr-2025 03:48:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-A-4

Lab Sample ID: 410-214590-4

Worklist Smp#: 15

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

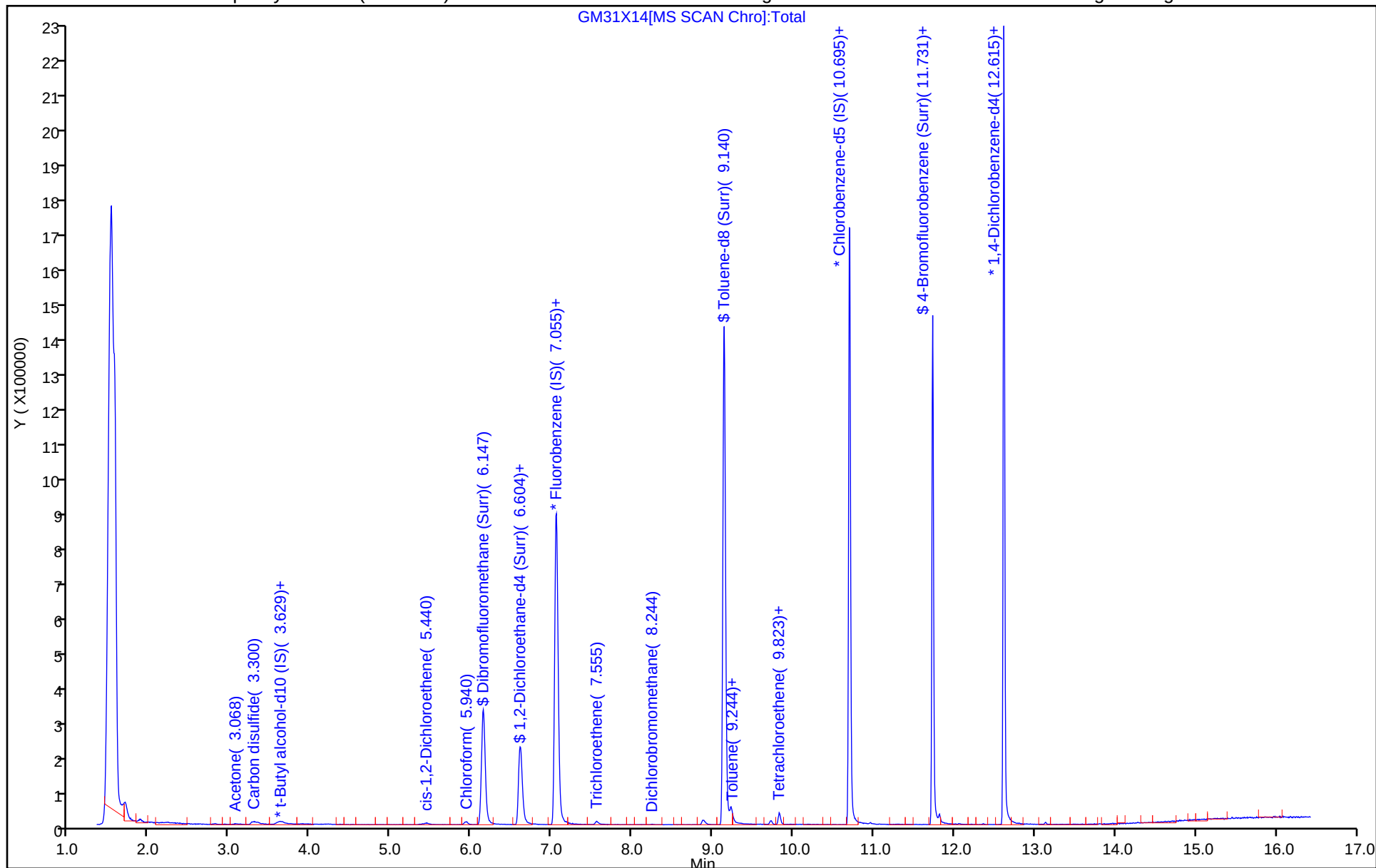
ALS Bottle#: 14

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X14.D
Lims ID: 410-214590-A-4
Client ID: HD-COD-SW-9-0/1-0
Sample Type: Client
Inject. Date: 01-Apr-2025 03:48:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-015
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Apr-2025 15:17:13 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: QD9U

Date: 01-Apr-2025 15:17:13

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.9	108.60
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.70	97.02
\$ 83 Toluene-d8 (Surr)	10.0	9.30	93.02
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.40	94.01

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X14.D

Injection Date: 01-Apr-2025 03:48:30

Instrument ID: 16334

Lims ID: 410-214590-A-4

Lab Sample ID: 410-214590-4

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

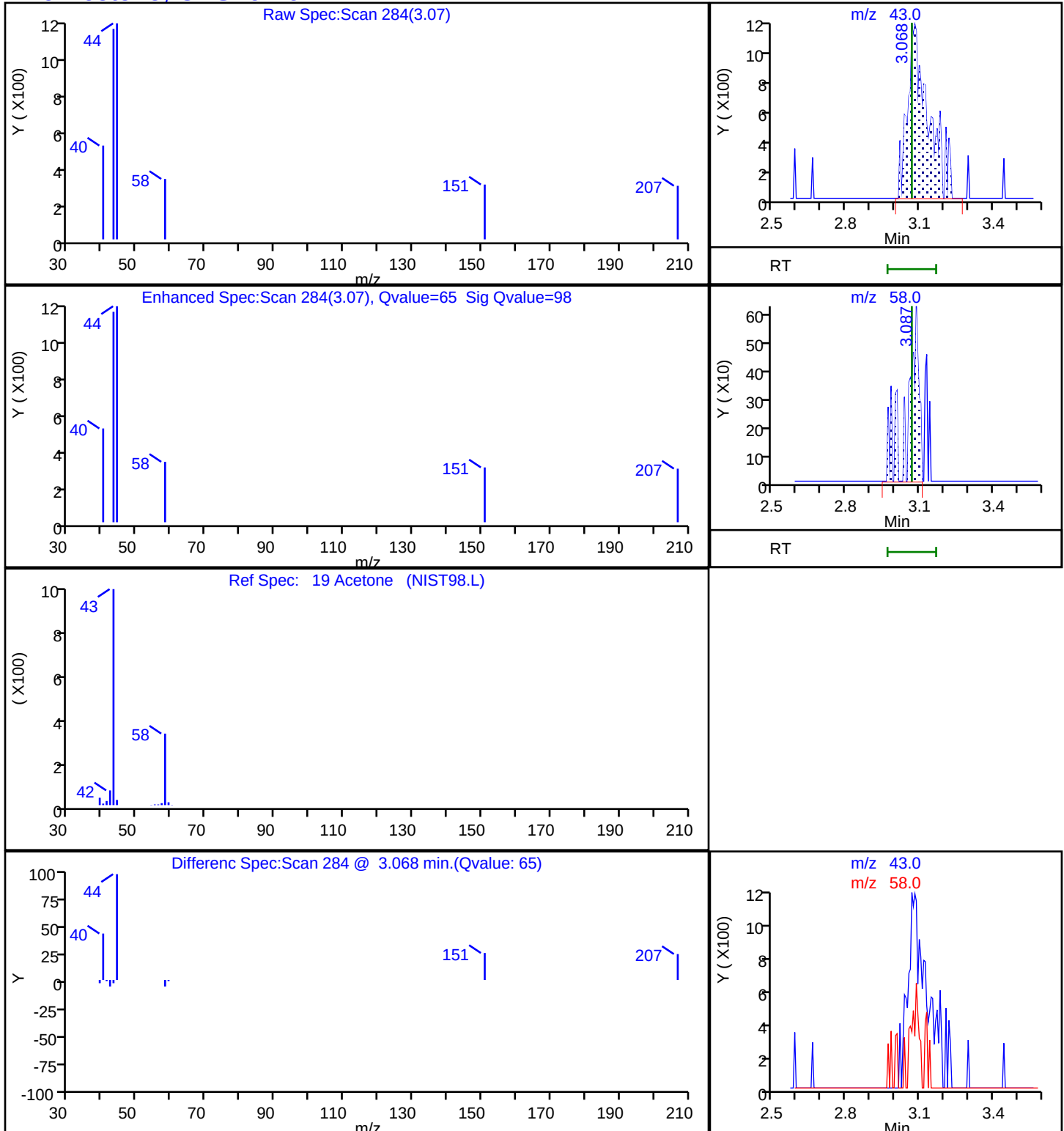
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

19 Acetone, CAS: 67-64-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X14.D

Injection Date: 01-Apr-2025 03:48:30

Instrument ID: 16334

Lims ID: 410-214590-A-4

Lab Sample ID: 410-214590-4

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

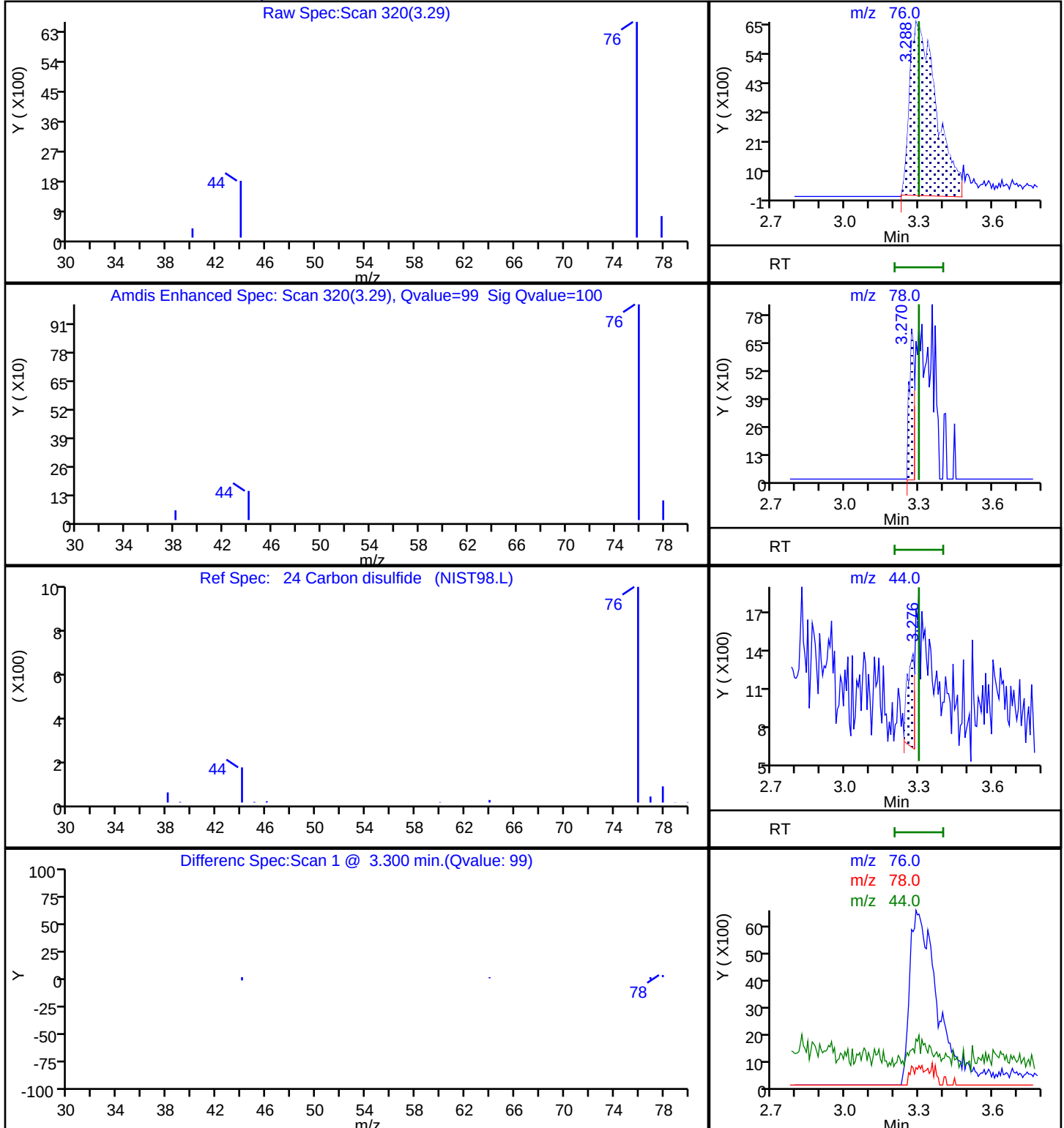
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

24 Carbon disulfide, CAS: 75-15-0

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X14.D

Injection Date: 01-Apr-2025 03:48:30

Instrument ID: 16334

Lims ID: 410-214590-A-4

Lab Sample ID: 410-214590-4

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

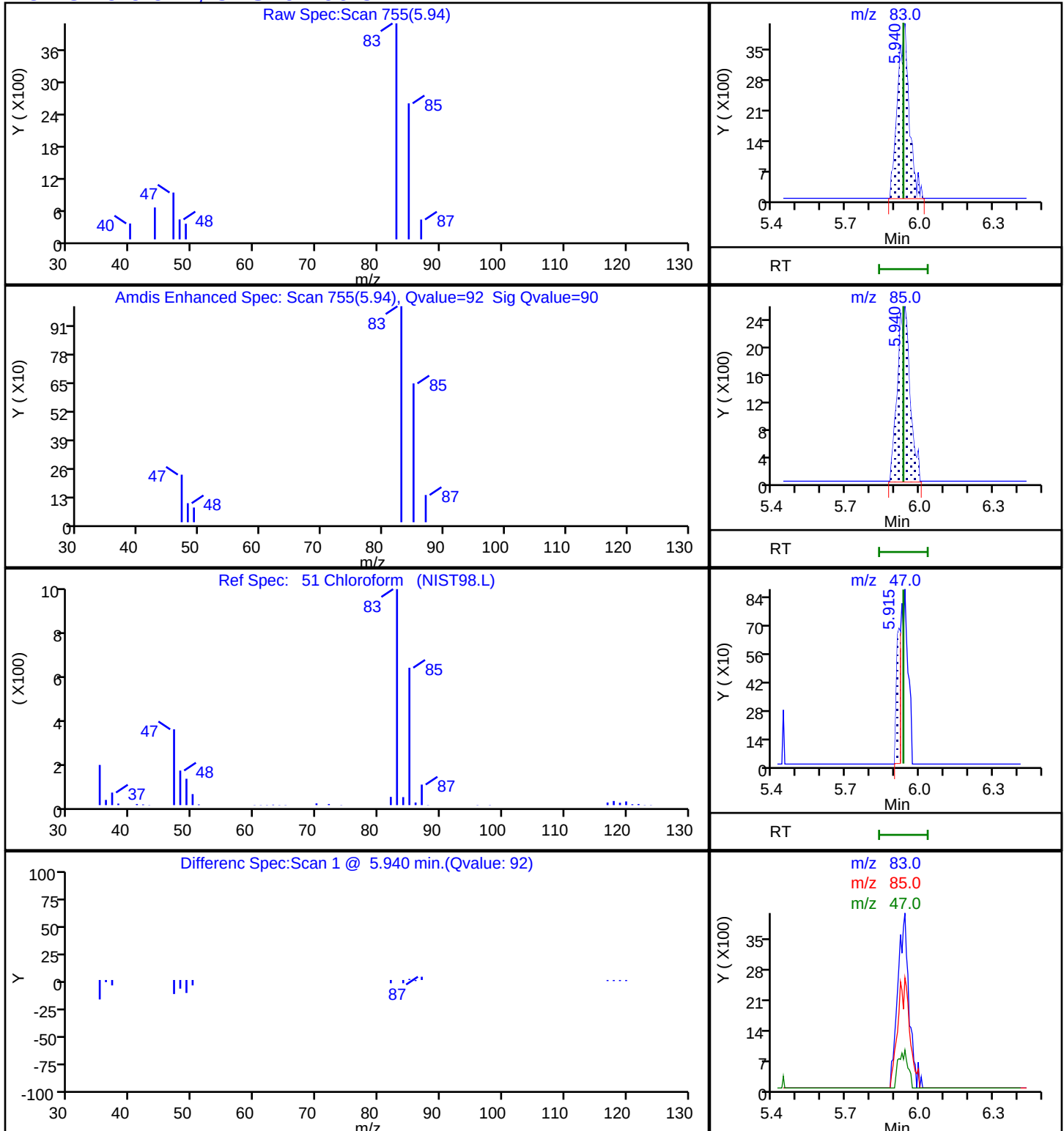
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

51 Chloroform, CAS: 67-66-3

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X14.D

Injection Date: 01-Apr-2025 03:48:30

Instrument ID: 16334

Lims ID: 410-214590-A-4

Lab Sample ID: 410-214590-4

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

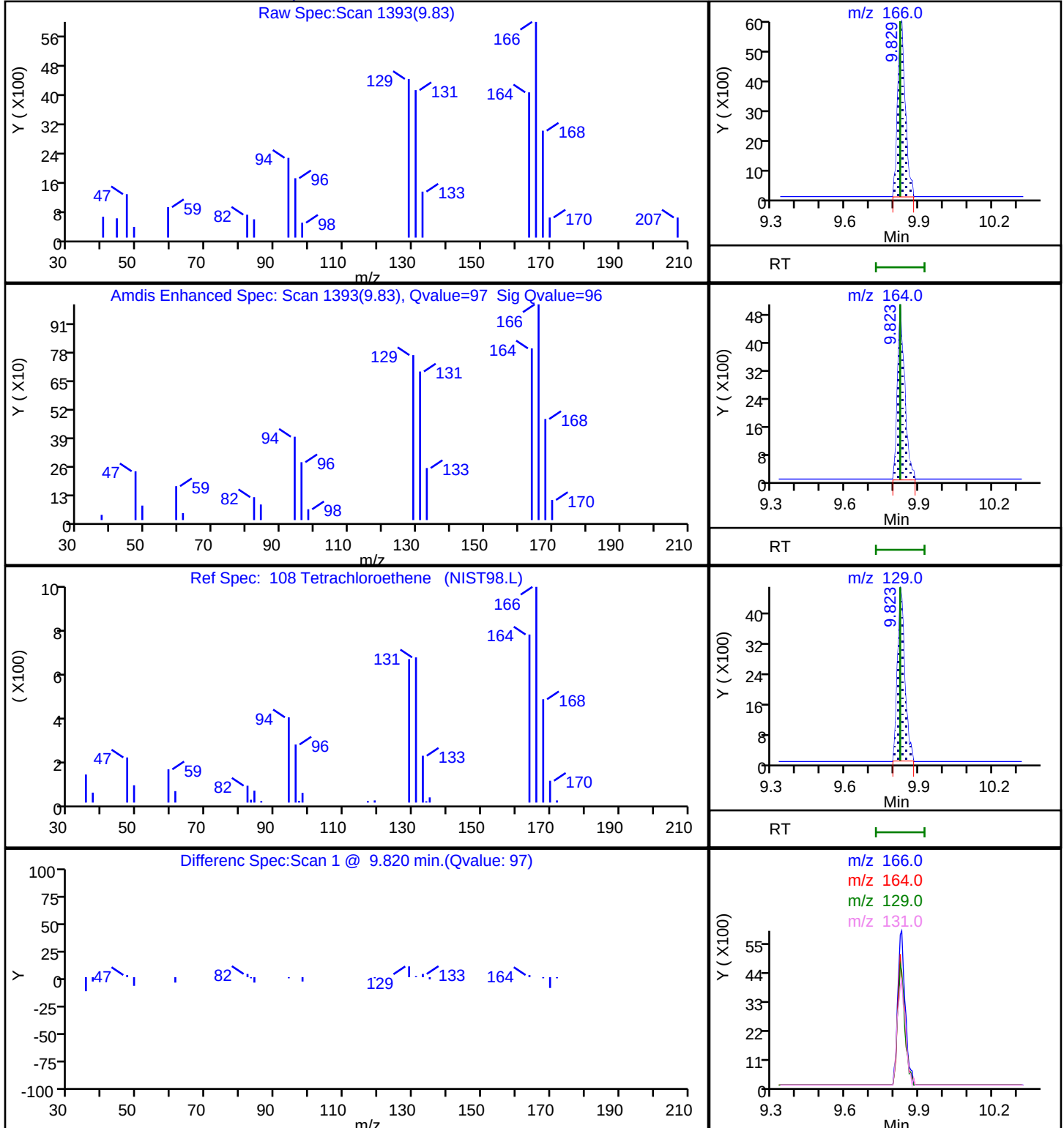
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

108 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X14.D

Injection Date: 01-Apr-2025 03:48:30

Instrument ID: 16334

Lims ID: 410-214590-A-4

Lab Sample ID: 410-214590-4

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

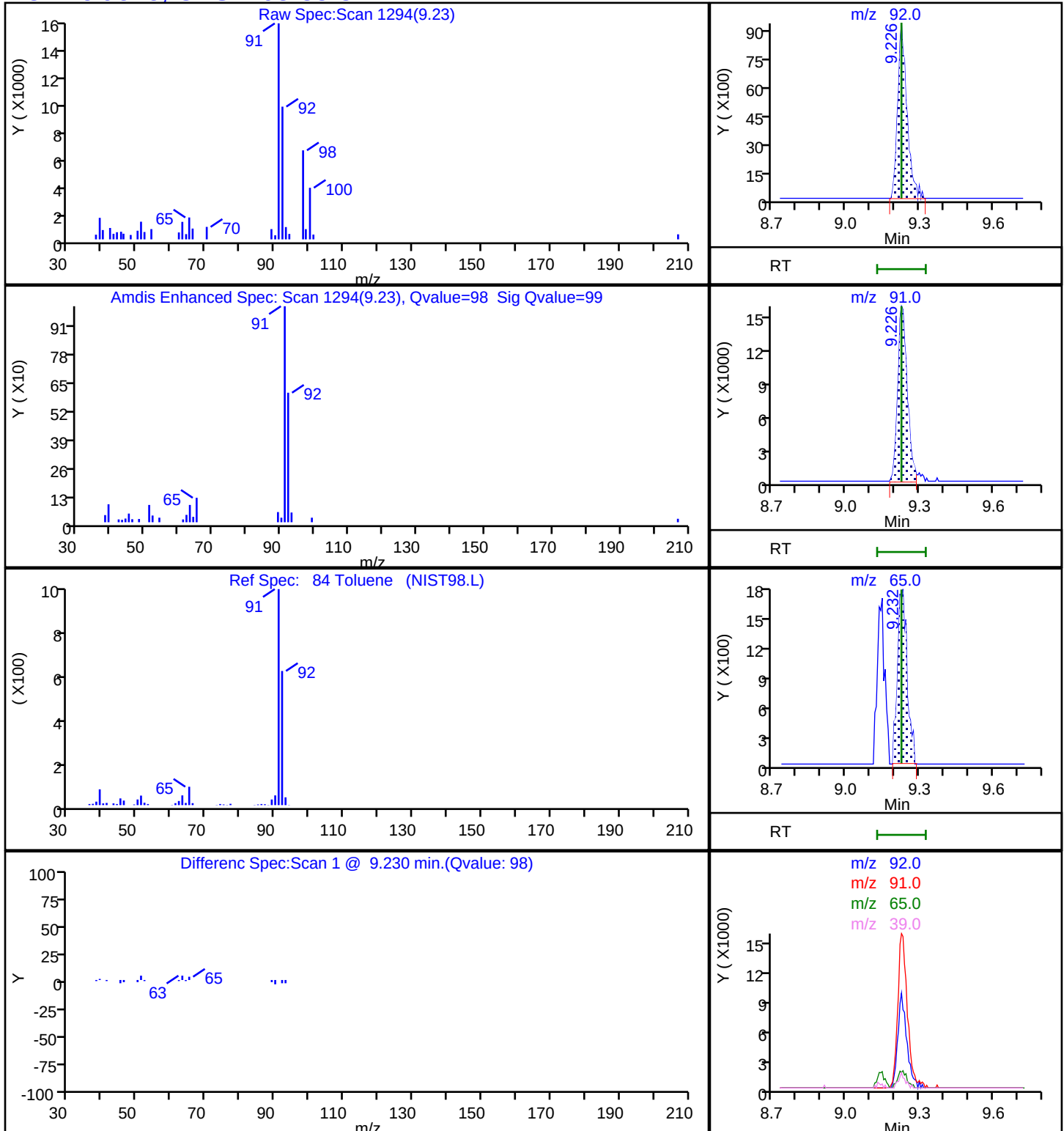
Dil. Factor: 1.0000

Method: MSV_16334_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\16334\20250331-142555.b\GM31X14.D

Injection Date: 01-Apr-2025 03:48:30

Instrument ID: 16334

Lims ID: 410-214590-A-4

Lab Sample ID: 410-214590-4

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

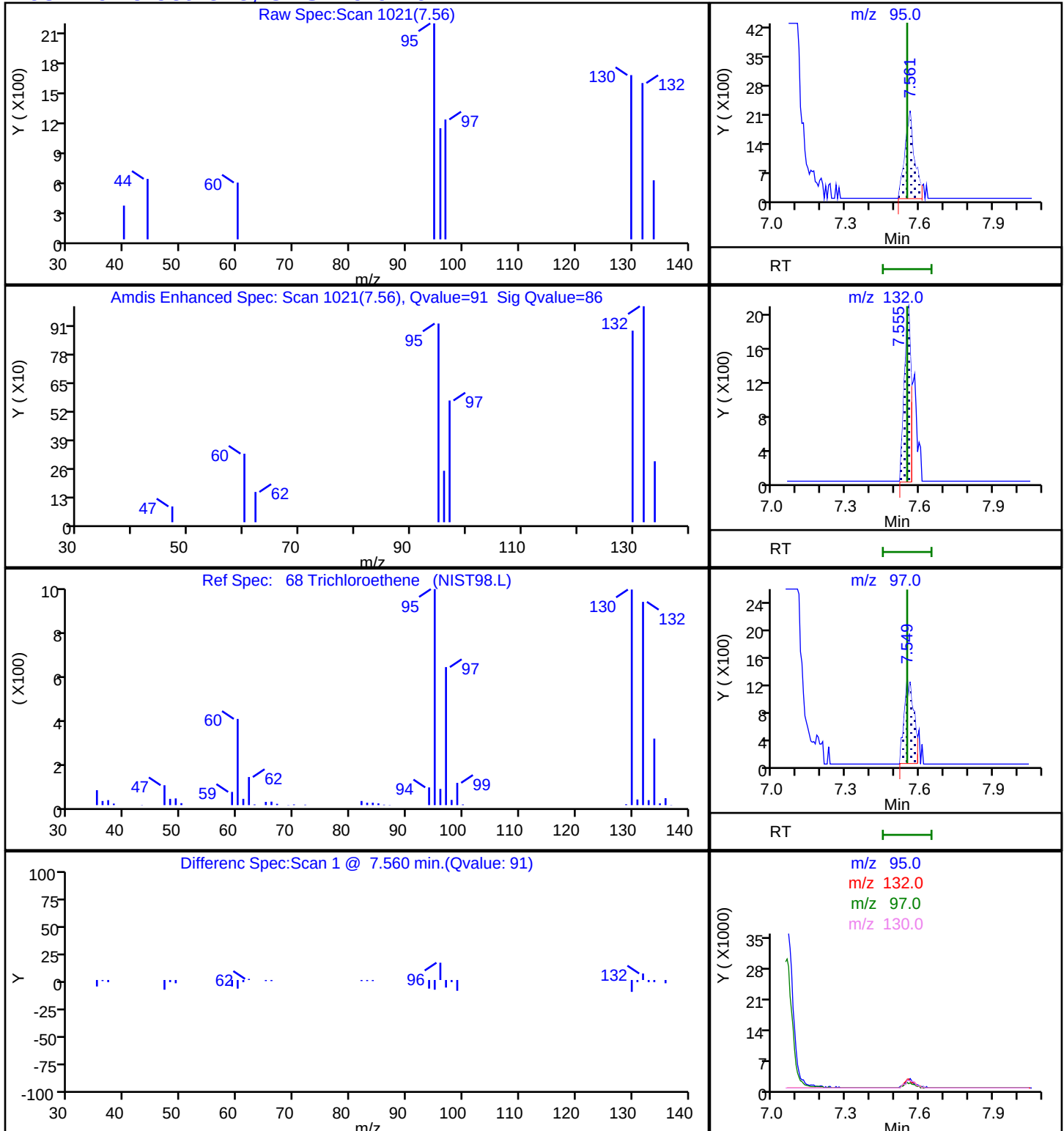
Dil. Factor: 1.0000

Method: MSV_16334_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

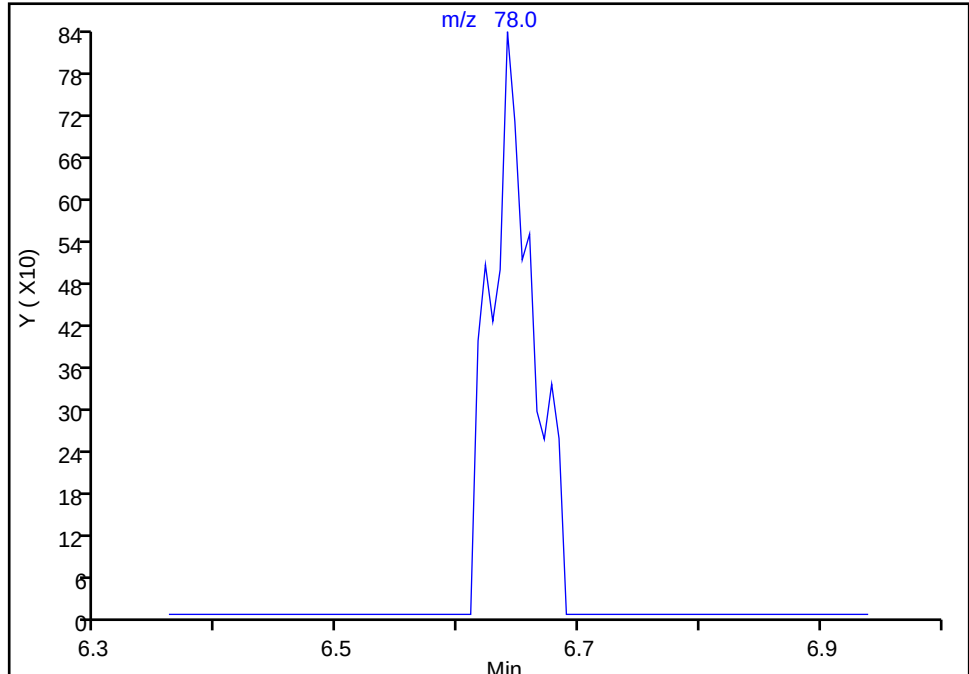
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X14.D
Injection Date: 01-Apr-2025 03:48:30 Instrument ID: 16334
Lims ID: 410-214590-A-4 Lab Sample ID: 410-214590-4
Client ID: HD-COD-SW-9-0/1-0
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

60 Benzene, CAS: 71-43-2

Signal: 1

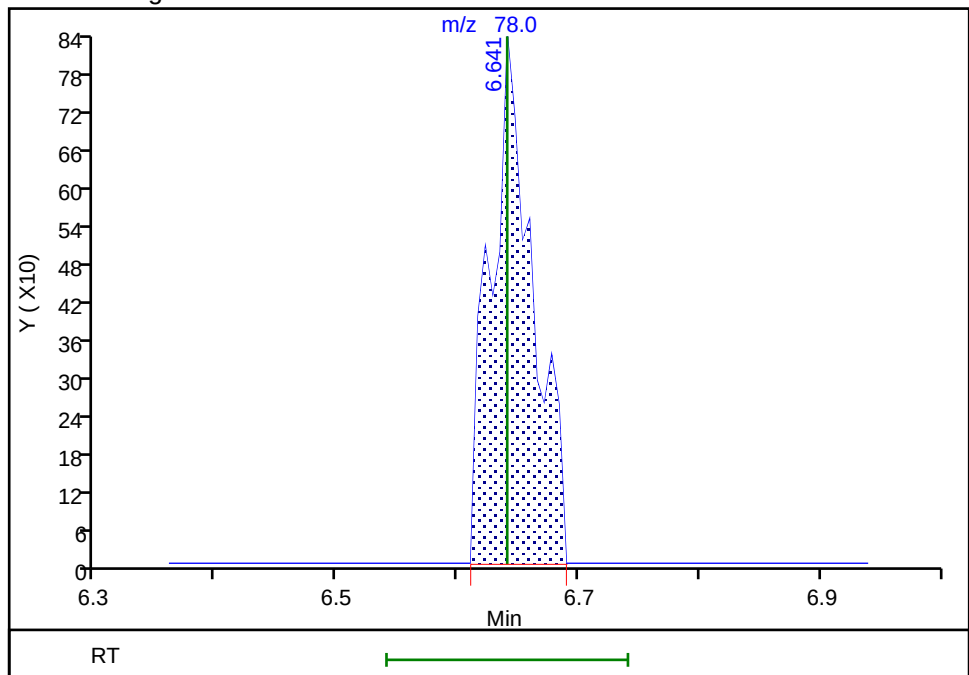
Not Detected
Expected RT: 6.64

Processing Integration Results



RT: 6.64
Area: 2021
Amount: 0.013633
Amount Units: ug/l

Manual Integration Results



Reviewer: QD9U, 01-Apr-2025 15:16:58 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

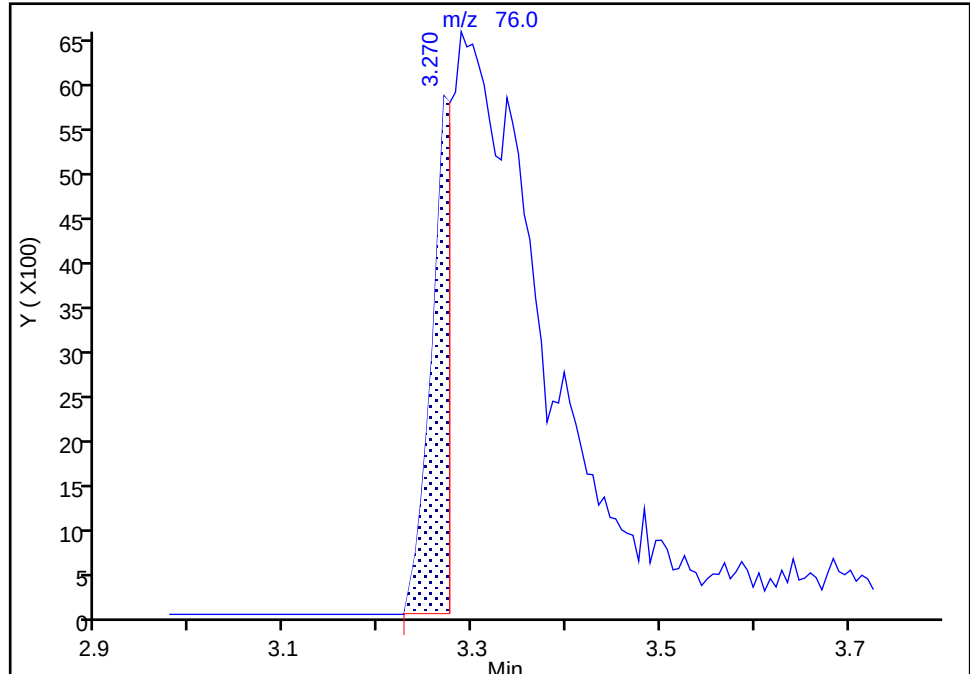
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Injection Date: 01-Apr-2025 03:48:30 Instrument ID: 16334
Lims ID: 410-214590-A-4 Lab Sample ID: 410-214590-4
Client ID: HD-COD-SW-9-0/1-0
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

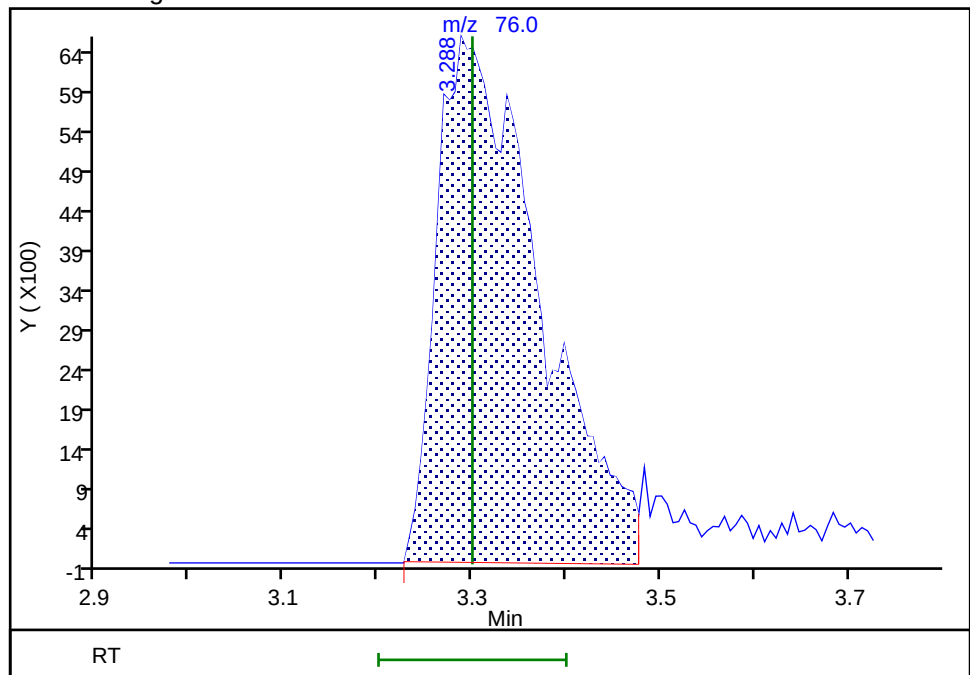
RT: 3.27
Area: 8535
Amount: 0.077304
Amount Units: ug/l

Processing Integration Results



RT: 3.29
Area: 49248
Amount: 0.446056
Amount Units: ug/l

Manual Integration Results



Reviewer: QD9U, 01-Apr-2025 15:16:18 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

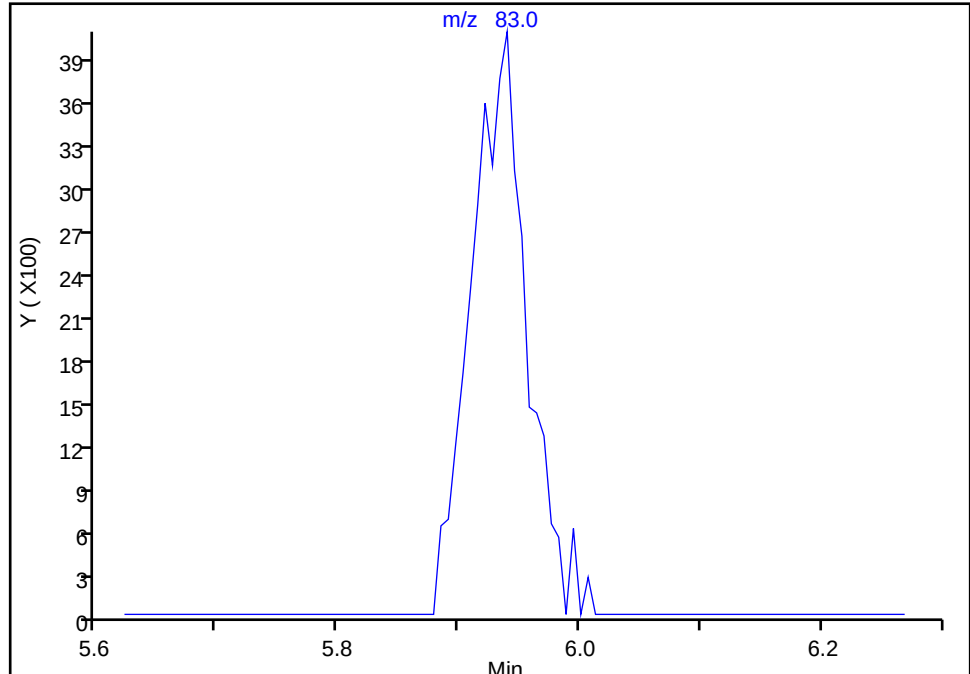
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Injection Date: 01-Apr-2025 03:48:30 Instrument ID: 16334
Lims ID: 410-214590-A-4 Lab Sample ID: 410-214590-4
Client ID: HD-COD-SW-9-0/1-0
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

51 Chloroform, CAS: 67-66-3

Signal: 1

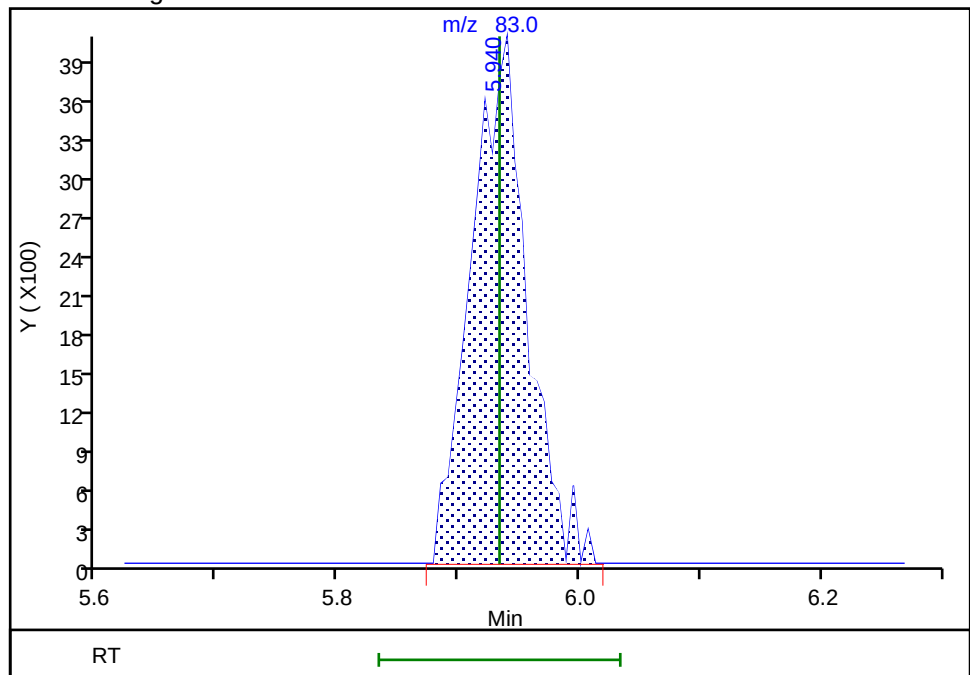
Not Detected
Expected RT: 5.93

Processing Integration Results



RT: 5.94
Area: 12963
Amount: 0.206062
Amount Units: ug/l

Manual Integration Results



Reviewer: QD9U, 01-Apr-2025 15:16:39 07:00:00 (UTC)

Audit Action: Assigned Compound ID

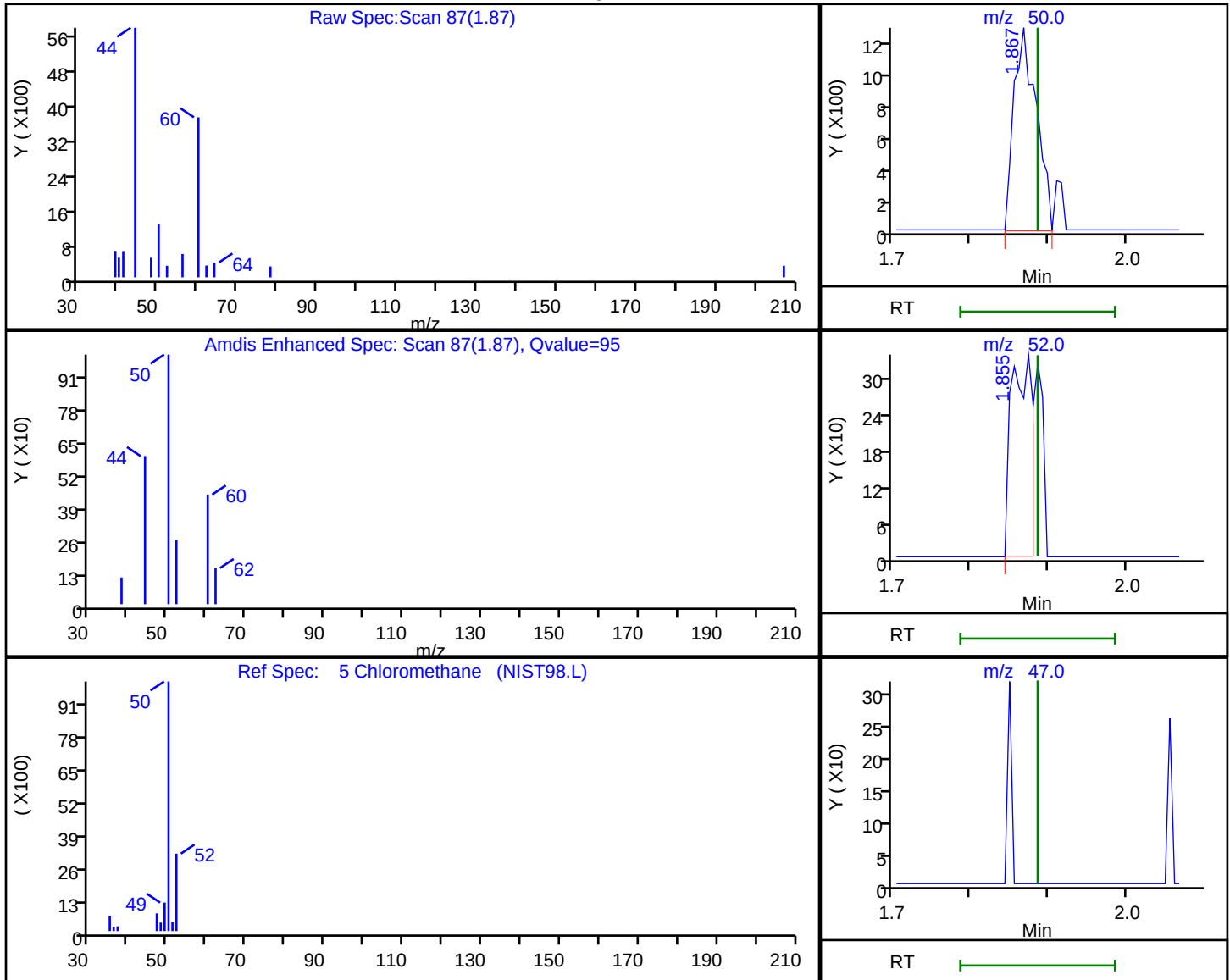
Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X14.D
Injection Date: 01-Apr-2025 03:48:30 Instrument ID: 16334
Lims ID: 410-214590-A-4 Lab Sample ID: 410-214590-4
Client ID: HD-COD-SW-9-0/1-0
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.87	50.00	2486	0.048508
1.86	52.00	635	
1.89	47.00	0	

Reviewer: QD9U, 01-Apr-2025 15:16:07 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.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-5

Matrix: Water

Lab File ID: GM31X15.D

Analysis Method: 8260D

Date Collected: 03/27/2025 08:55

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 04:10

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

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	0.12	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	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND	^c cn	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	0.38	J cn	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	1.7		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-214590-5

Matrix: Water Lab File ID: GM31X15.D

Analysis Method: 8260D Date Collected: 03/27/2025 08:55

Sample wt/vol: 25 (mL) Date Analyzed: 04/01/2025 04:10

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.: 624273 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 16334

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	0.25	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)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	91		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X15.D
 Lims ID: 410-214590-A-5
 Client ID: HD-COD-SW-13-0/1-0
 Sample Type: Client
 Inject. Date: 01-Apr-2025 04:10:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-016
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Apr-2025 15:34:48 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1629

First Level Reviewer: QD9U

Date: 01-Apr-2025 15:34:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.879	1.885	-0.006	4	2528	0.0493	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.276				ND	
10 Chloroethane	64		2.318				ND	7
18 1,1-Dichloroethene	96		3.038				ND	
19 Acetone	43	3.074	3.068	0.006	57	2726	0.9631	
24 Carbon disulfide	76	3.306	3.300	0.006	97	42220	0.3822	M
29 Methylene Chloride	84		3.592				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.629	3.617	0.012	21	49327	50.0	
33 Methyl tert-butyl ether	73		3.946				ND	
34 trans-1,2-Dichloroethene	96		3.946				ND	
37 1,1-Dichloroethane	63		4.574				ND	
41 2-Butanone (MEK)	43		5.421				ND	
42 cis-1,2-Dichloroethene	96		5.433				ND	
49 Chlorobromomethane	128		5.775				ND	
51 Chloroform	83	5.946	5.933	0.013	86	5173	0.0822	
\$ 52 Dibromofluoromethane (Surr)	113	6.153	6.153	0.000	93	336320	10.7	
53 1,1,1-Trichloroethane	97	6.153	6.159	-0.006	36	6789	0.1218	
55 Carbon tetrachloride	117		6.372				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.616	0.000	65	60162	10.0	
60 Benzene	78		6.641				ND	7
61 1,2-Dichloroethane	62		6.714				ND	
* 64 Fluorobenzene (IS)	96	7.061	7.061	0.000	99	1335945	10.0	
68 Trichloroethene	95	7.555	7.549	0.006	94	9388	0.2463	a
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.238				ND	7
81 cis-1,3-Dichloropropene	75		8.805				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012				ND	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1344147	9.11	
84 Toluene	92	9.232	9.225	0.007	93	3538	0.0345	
85 trans-1,3-Dichloropropene	75		9.524				ND	
107 1,1,2-Trichloroethane	97		9.738				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	9.823	9.823	0.000	96	78242	1.69	
110 2-Hexanone	43		9.981				ND	
112 Chlorodibromomethane	129		10.134				ND	
113 Ethylene Dibromide	107		10.237				ND	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	84	1063348	10.0	
116 Chlorobenzene	112		10.725				ND	
117 1,1,1,2-Tetrachloroethane	131		10.817				ND	
118 Ethylbenzene	91		10.823				ND	
120 m-Xylene & p-Xylene	106		10.945				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
121 o-Xylene	106		11.280				ND	
122 Styrene	104		11.298				ND	
123 Bromoform	173		11.451				ND	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	90	477443	9.37	
128 1,1,2,2-Tetrachloroethane	83		11.841				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.621	12.615	0.006	94	553529	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X15.D

Injection Date: 01-Apr-2025 04:10:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-A-5

Lab Sample ID: 410-214590-5

Worklist Smp#: 16

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

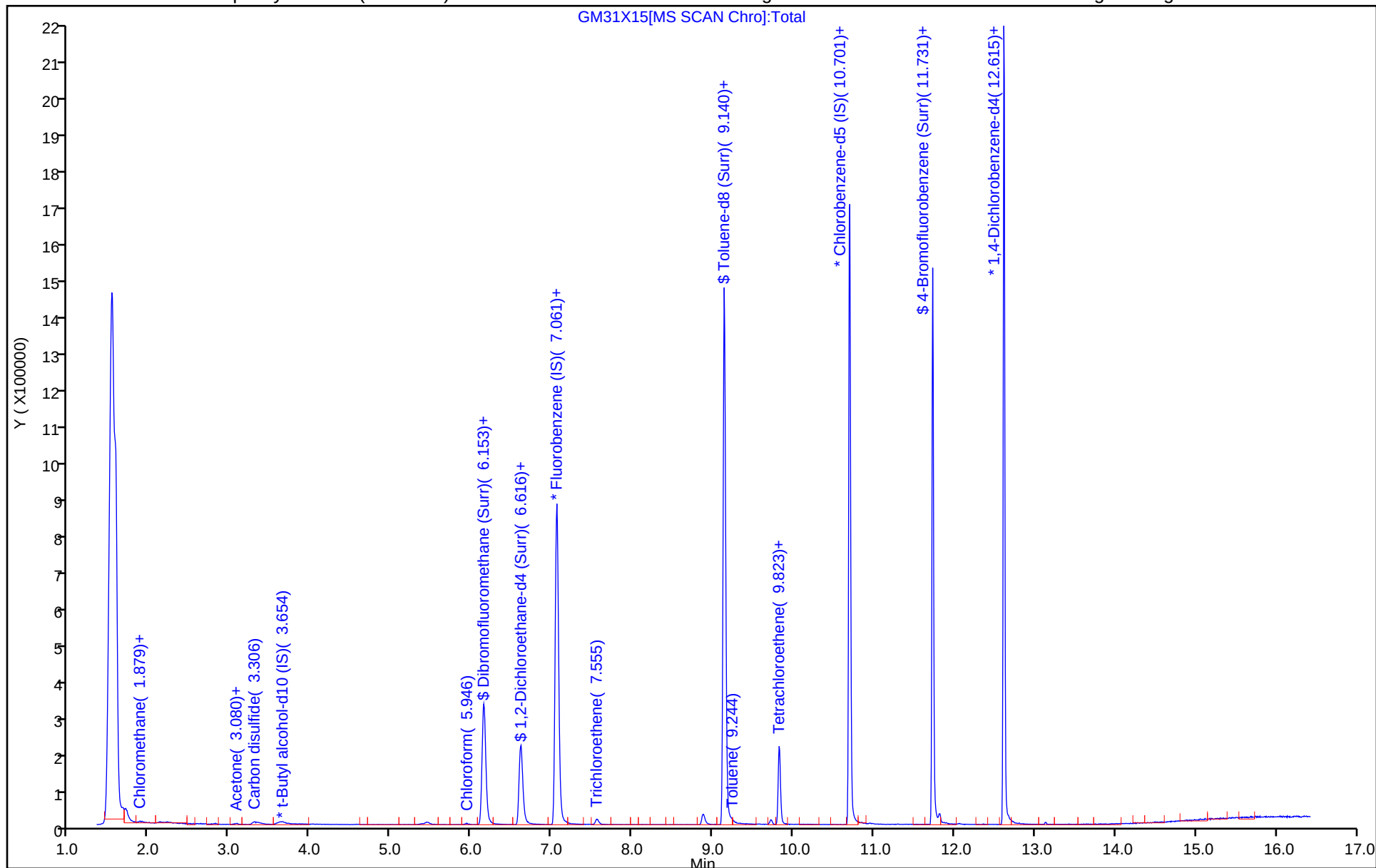
ALS Bottle#: 15

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X15.D
Lims ID: 410-214590-A-5
Client ID: HD-COD-SW-13-0/1-0
Sample Type: Client
Inject. Date: 01-Apr-2025 04:10:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-016
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Apr-2025 15:34:48 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: QD9U

Date: 01-Apr-2025 15:34:48

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.7	106.70
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.0	100.05
\$ 83 Toluene-d8 (Surr)	10.0	9.11	91.07
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.37	93.67

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X15.D

Injection Date: 01-Apr-2025 04:10:30

Instrument ID: 16334

Lims ID: 410-214590-A-5

Lab Sample ID: 410-214590-5

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

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 25.000 mL

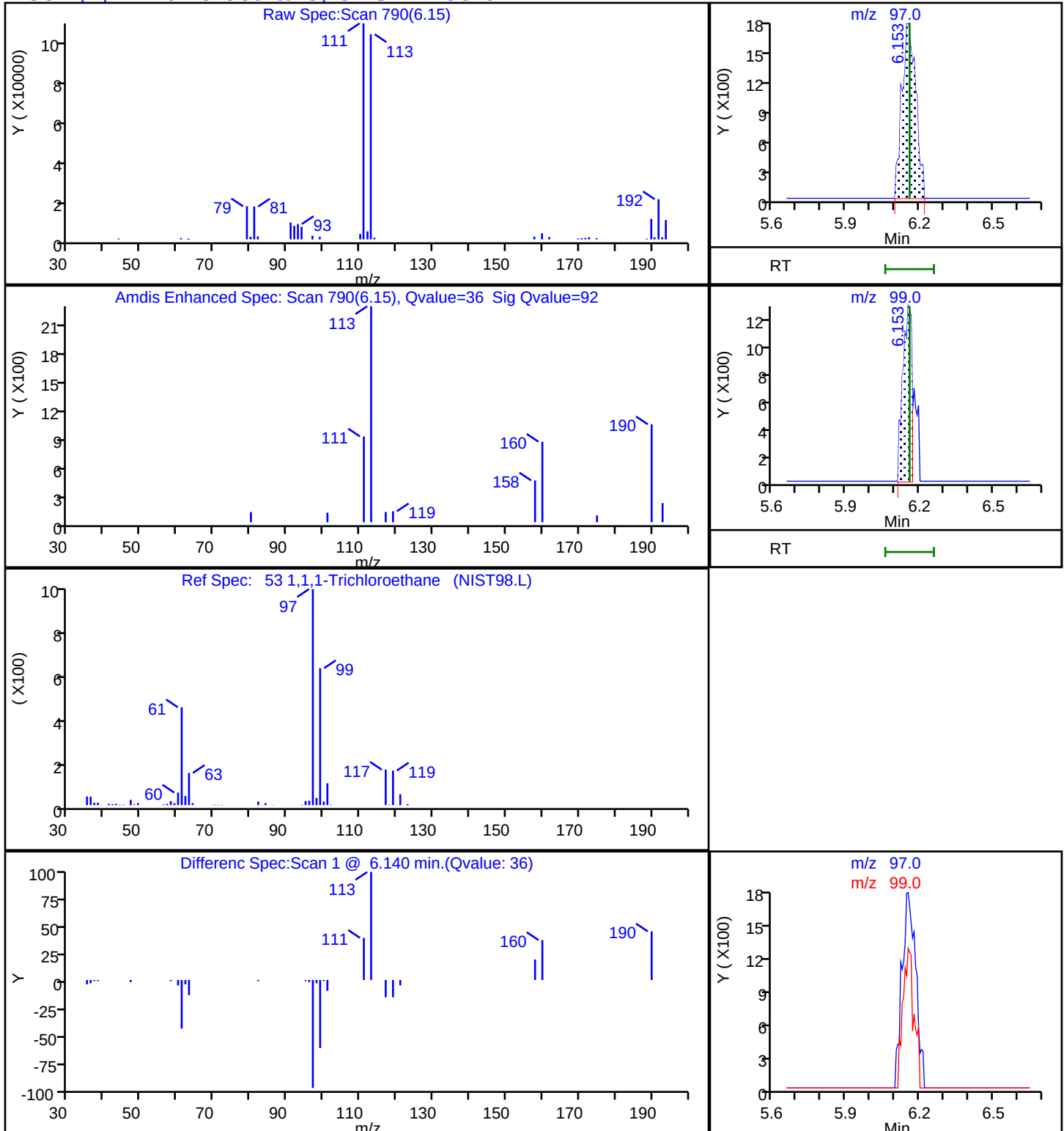
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X15.D

Injection Date: 01-Apr-2025 04:10:30

Instrument ID: 16334

Lims ID: 410-214590-A-5

Lab Sample ID: 410-214590-5

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

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 25.000 mL

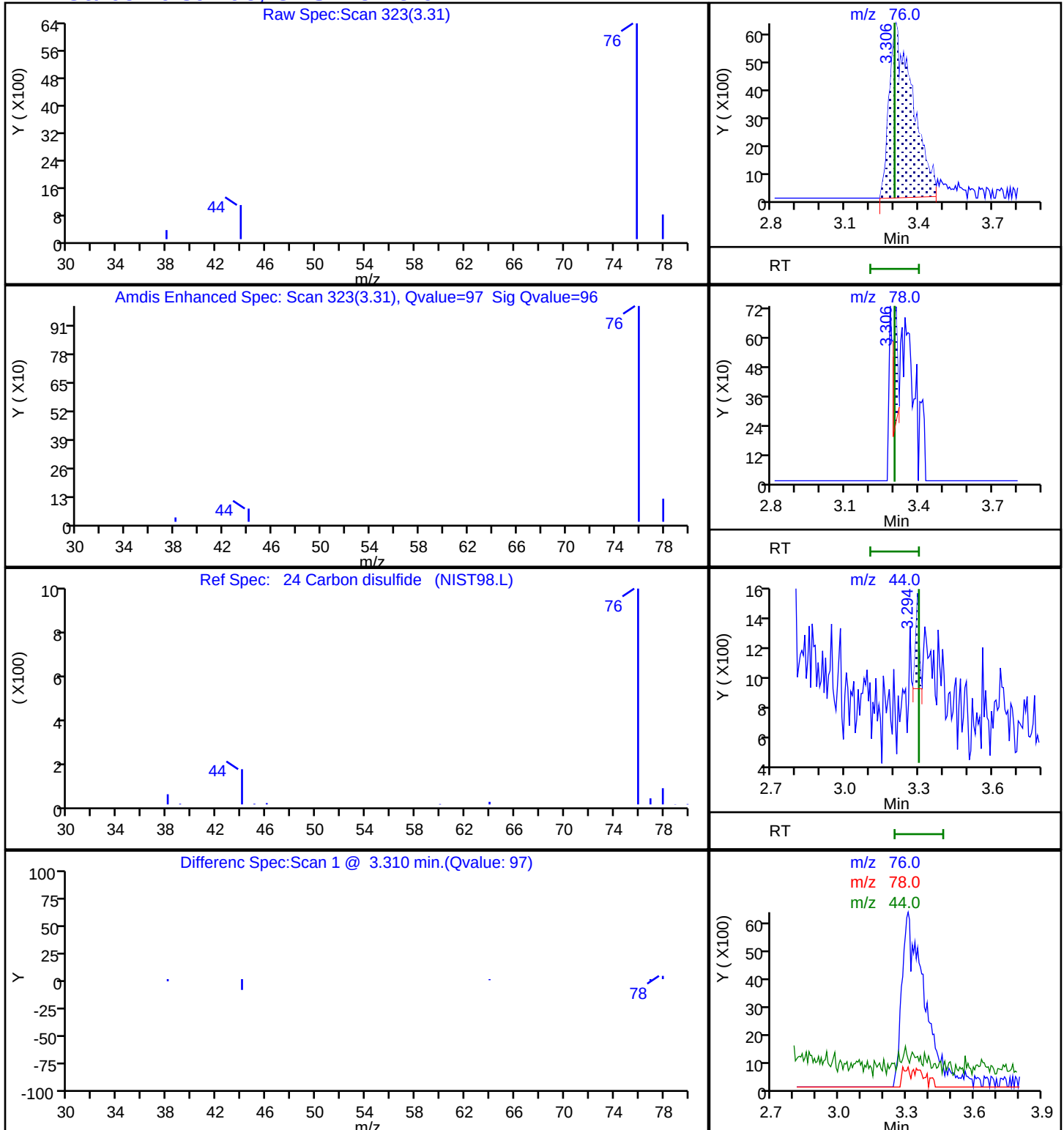
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

24 Carbon disulfide, CAS: 75-15-0

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X15.D

Injection Date: 01-Apr-2025 04:10:30

Instrument ID: 16334

Lims ID: 410-214590-A-5

Lab Sample ID: 410-214590-5

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

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 25.000 mL

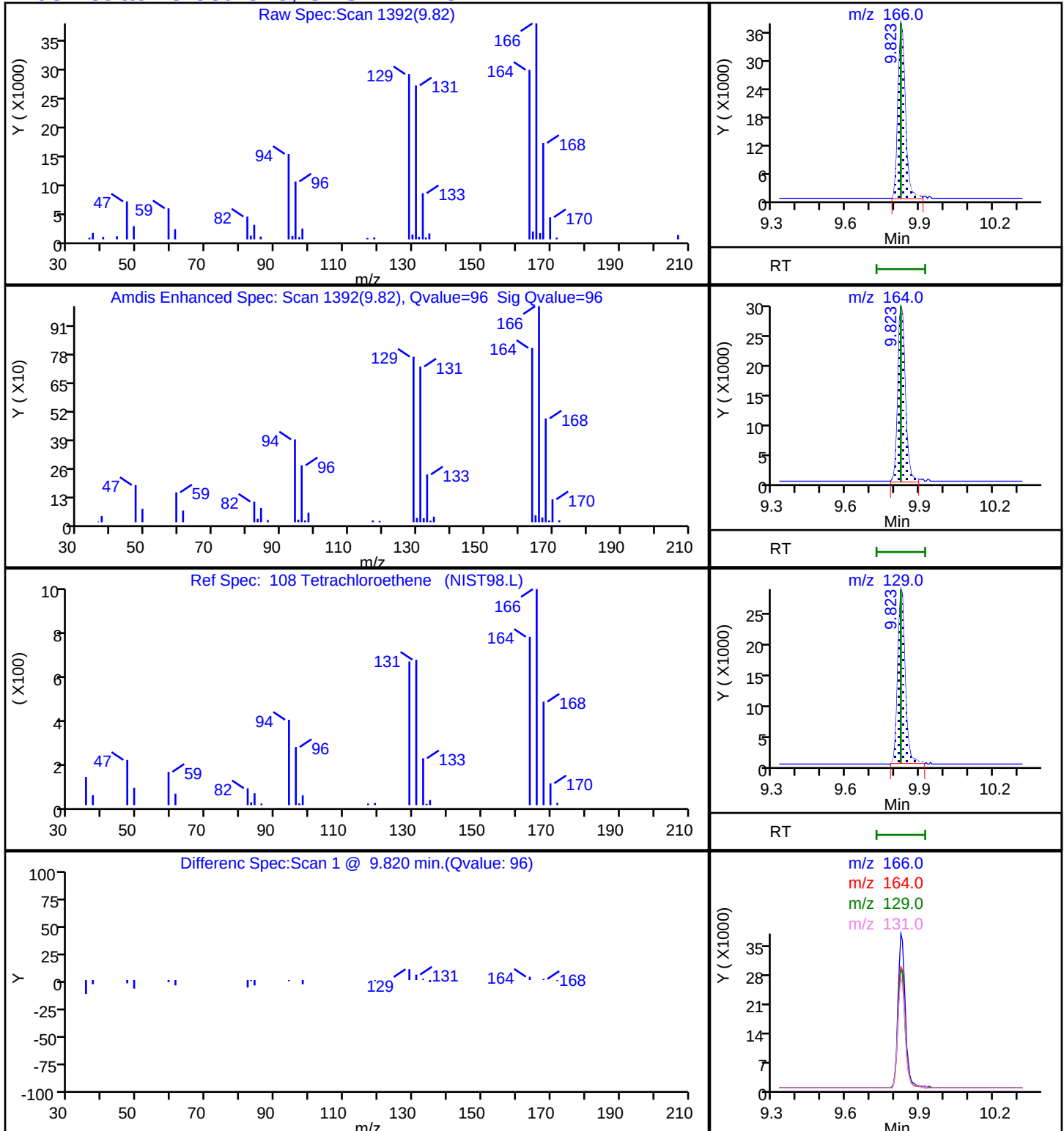
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

108 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X15.D

Injection Date: 01-Apr-2025 04:10:30

Instrument ID: 16334

Lims ID: 410-214590-A-5

Lab Sample ID: 410-214590-5

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

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 25.000 mL

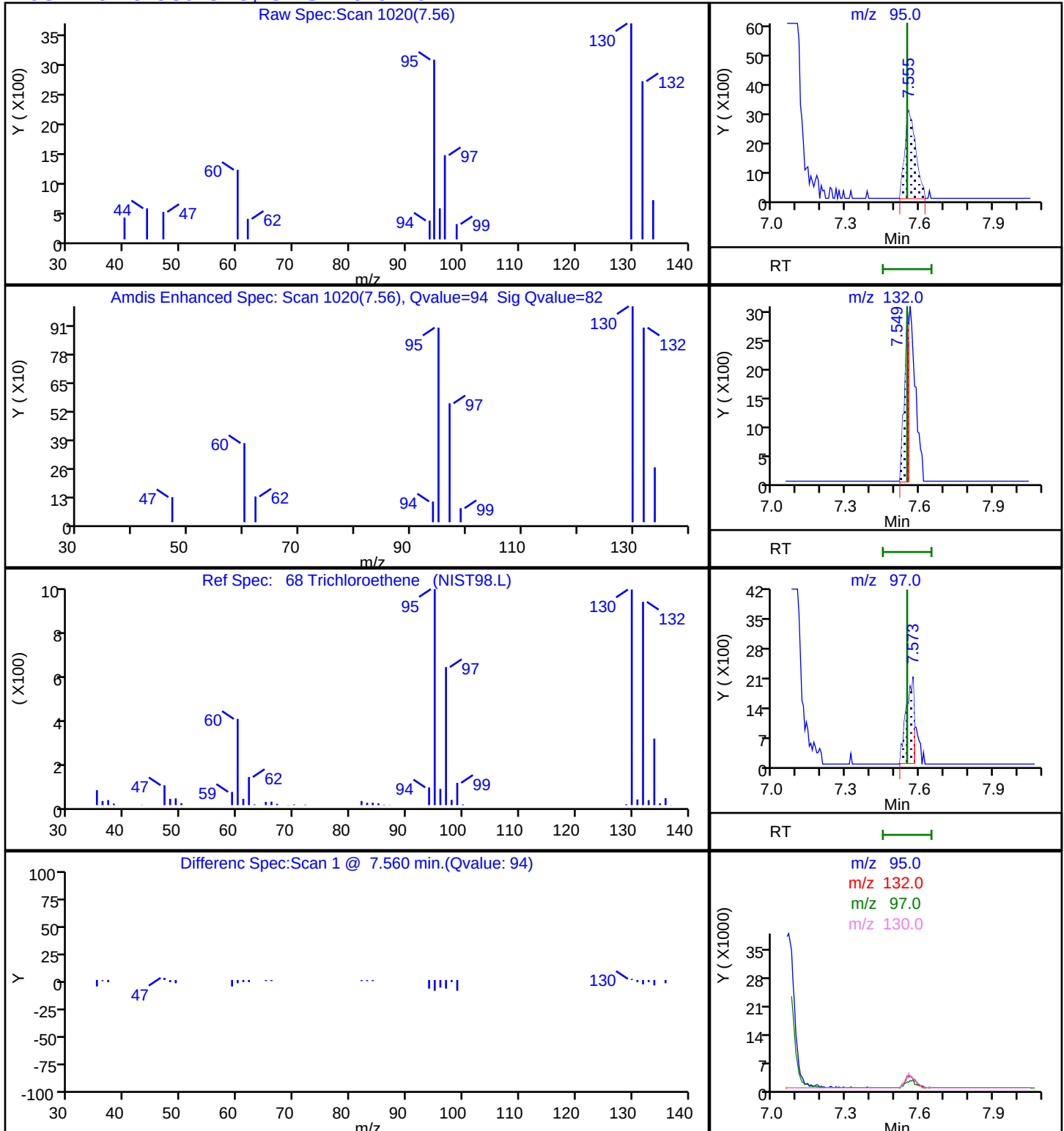
Dil. Factor: 1.0000

Method: MSV_16334_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

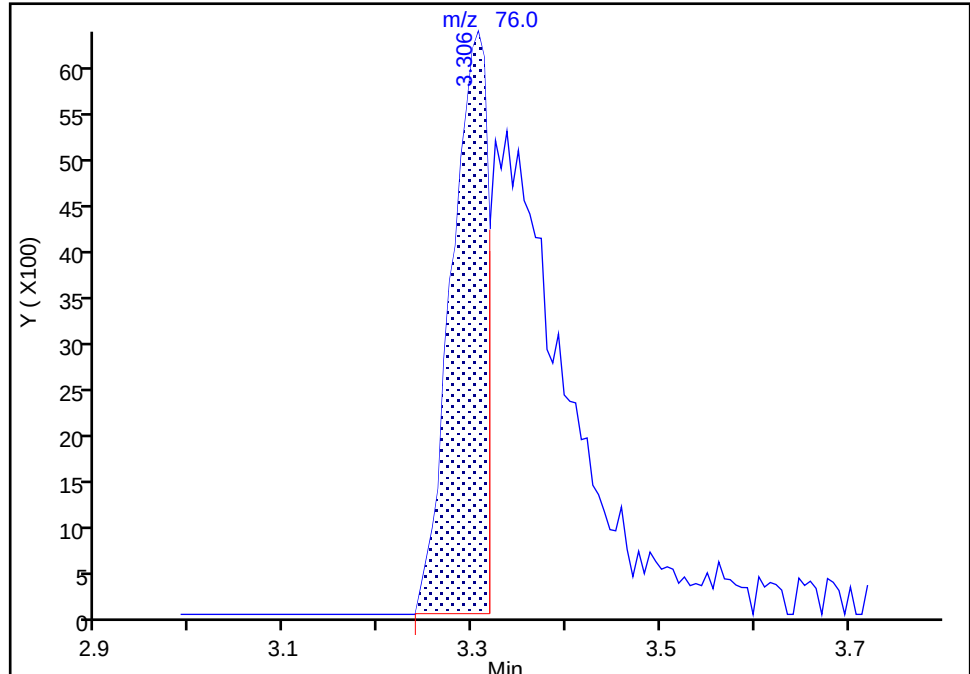
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Injection Date: 01-Apr-2025 04:10:30 Instrument ID: 16334
Lims ID: 410-214590-A-5 Lab Sample ID: 410-214590-5
Client ID: HD-COD-SW-13-0/1-0
Operator ID: gaw91131 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

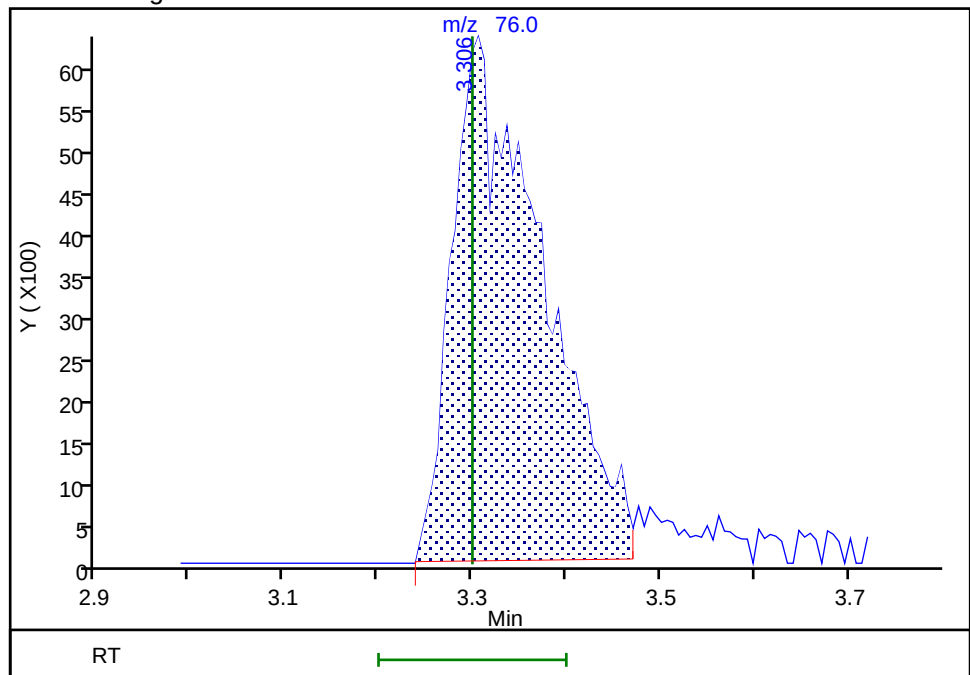
RT: 3.31
Area: 17169
Amount: 0.155437
Amount Units: ug/l

Processing Integration Results



RT: 3.31
Area: 42220
Amount: 0.382232
Amount Units: ug/l

Manual Integration Results



Reviewer: QD9U, 01-Apr-2025 15:34:14 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

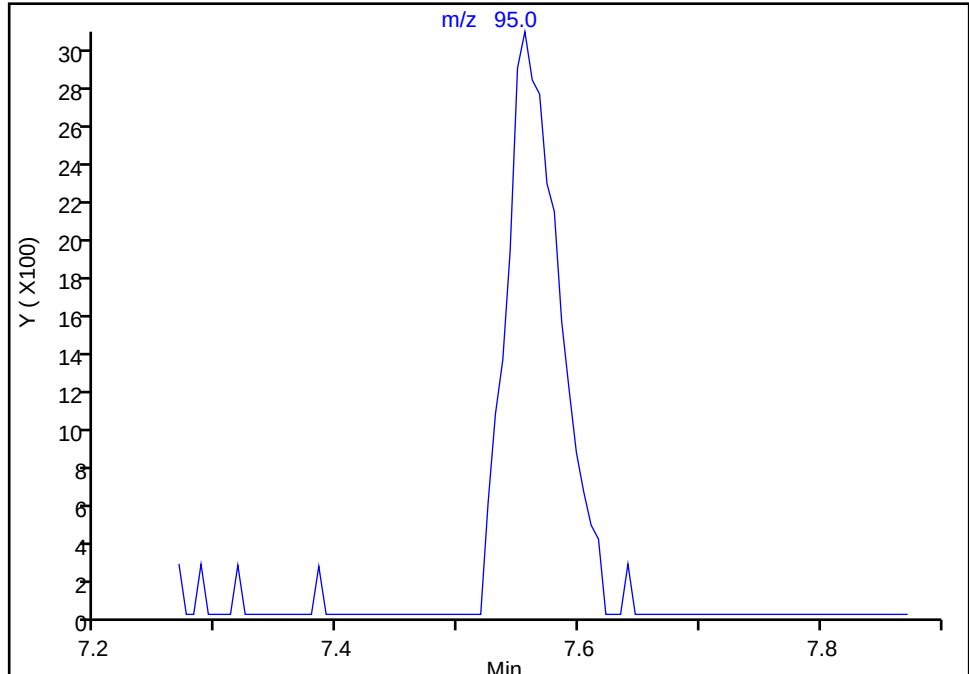
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X15.D
Injection Date: 01-Apr-2025 04:10:30 Instrument ID: 16334
Lims ID: 410-214590-A-5 Lab Sample ID: 410-214590-5
Client ID: HD-COD-SW-13-0/1-0
Operator ID: gaw91131 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

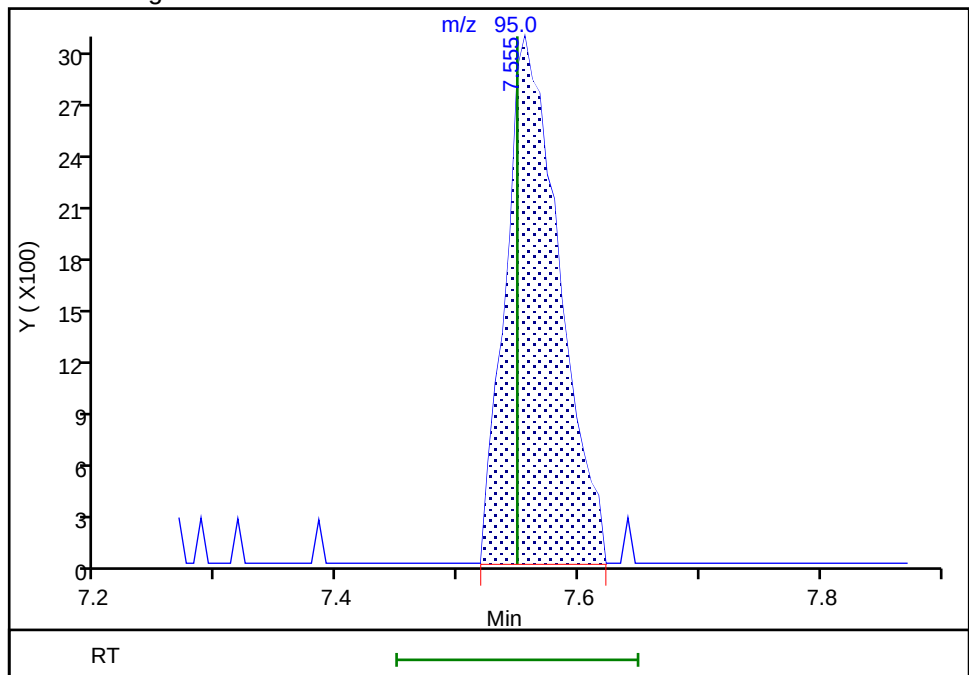
Not Detected
Expected RT: 7.55

Processing Integration Results



RT: 7.56
Area: 9388
Amount: 0.246345
Amount Units: ug/l

Manual Integration Results



Reviewer: QD9U, 01-Apr-2025 15:34:35 07:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-6

Matrix: Water

Lab File ID: GM31X16.D

Analysis Method: 8260D

Date Collected: 03/27/2025 11:37

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 04:32

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

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	0.37	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	0.11	J	0.50	0.10
75-35-4	1,1-Dichloroethene	0.23	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	^c cn	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	0.25	J cn	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	0.20	J FH	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	1.4		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	5.1		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-214590-6

Matrix: Water Lab File ID: GM31X16.D

Analysis Method: 8260D Date Collected: 03/27/2025 11:37

Sample wt/vol: 25 (mL) Date Analyzed: 04/01/2025 04:32

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.: 624273 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 16334

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	1.7		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)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	91		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X16.D
 Lims ID: 410-214590-A-6
 Client ID: HD-COD-SW-15-0/1-0
 Sample Type: Client
 Inject. Date: 01-Apr-2025 04:32:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-017
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 02-Apr-2025 07:59:27 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:59:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.678				ND	
2 Dichlorodifluoromethane	85		1.715				ND	
3 Chlorodifluoromethane	51		1.727				ND	7
5 Chloromethane	50		1.885				ND	
4 Dimethyl ether	45	1.843	1.885	-0.042	1	249	NC	
7 Butadiene	39		1.977				ND	7
6 Vinyl chloride	62		1.983				ND	
8 2-Chloro-1,1,1-Trifluoroethane	118		2.032				ND	
9 Bromomethane	94		2.276				ND	
10 Chloroethane	64		2.318				ND	7
11 Dichlorofluoromethane	67		2.519				ND	
12 Trichlorofluoromethane	101		2.599				ND	
13 Ethyl ether	59		2.775				ND	
16 1,2-Dichloro-1,1,2-trifluoroethane	67		2.861				ND	
17 Acrolein	56		2.916				ND	
18 1,1-Dichloroethene	96	3.031	3.038	-0.007	93	6946	0.2257	
19 Acetone	43		3.068				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.074				ND	
14 Ethanol	45		3.184				ND	
T 15 Ethanol TIC	45		3.190				ND	7
22 Iodomethane	142		3.202				ND	
23 Ethyl bromide	108		3.220				ND	
21 Isopropyl alcohol	45		3.227				ND	
24 Carbon disulfide	76	3.294	3.300	-0.006	98	28660	0.2540	M
26 Acetonitrile	41		3.422				ND	
25 Methyl acetate	43		3.434				ND	
27 3-Chloro-1-propene	41		3.434				ND	
29 Methylene Chloride	84		3.592				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.647	3.617	0.030	21	49781	50.0	
31 2-Methyl-2-propanol	59		3.720				ND	
32 Acrylonitrile	53		3.903				ND	
33 Methyl tert-butyl ether	73		3.946				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
34 trans-1,2-Dichloroethene	96		3.946				ND	
T 28 Acetonitrile TIC	41		3.961				ND	
35 Hexane	57		4.342				ND	
37 1,1-Dichloroethane	63	4.568	4.574	-0.006	1	7506	0.1145	
36 Vinyl acetate	43		4.580				ND	
38 Isopropyl ether	45		4.653				ND	
39 2-Chloro-1,3-butadiene	53		4.690				ND	
40 Tert-butyl ethyl ether	59		5.196				ND	7
41 2-Butanone (MEK)	43		5.421				ND	
42 cis-1,2-Dichloroethene	96	5.446	5.433	0.013	78	53811	1.36	
43 2,2-Dichloropropane	77		5.446				ND	
44 Ethyl acetate	43		5.488				ND	
45 Propionitrile	54		5.513				ND	
48 Methacrylonitrile	67		5.720				ND	
49 Chlorobromomethane	128		5.775				ND	
50 Tetrahydrofuran	71		5.793				ND	
51 Chloroform	83	5.939	5.933	0.006	92	12797	0.1991	
46 Methyl acrylate	55		6.141				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.153	6.153	0.000	93	334584	10.4	
S 47 1,2-Dichloroethene, Total	100				0		1.36	
53 1,1,1-Trichloroethane	97	6.147	6.159	-0.012	38	21324	0.3747	
54 Cyclohexane	56		6.256				ND	
55 Carbon tetrachloride	117		6.372				ND	7
56 1,1-Dichloropropene	75		6.378				ND	
58 Isobutyl alcohol	41		6.586				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.616	-0.006	65	61640	10.0	
60 Benzene	78		6.641				ND	
61 1,2-Dichloroethane	62		6.714				ND	
62 Isopropyl acetate	43		6.756				ND	
63 Tert-amyl methyl ether	73		6.854				ND	
* 64 Fluorobenzene (IS)	96	7.055	7.061	-0.006	99	1364527	10.0	
57 1-Chlorobutane	56	7.061	7.067	-0.006	33	6283	NC	
65 n-Heptane	43		7.086				ND	
67 n-Butanol	56		7.494				ND	
68 Trichloroethene	95	7.549	7.549	0.000	97	67099	1.72	
69 Methylcyclohexane	83		7.848				ND	
70 1,2-Dichloropropane	63		7.878				ND	
66 t-Amyl alcohol	73		7.903				ND	
71 2-ethoxy-2-methyl butane	87		7.915				ND	
73 1,4-Dioxane	88		7.988				ND	
74 Dibromomethane	93		7.994				ND	
72 Methyl methacrylate	69		7.994				ND	
75 n-Propyl acetate	61		8.085				ND	
76 Dichlorobromomethane	83		8.238				ND	
77 2-Nitropropane	41		8.518				ND	
78 2-Chloroethyl vinyl ether	63		8.622				ND	
79 1-Bromo-2-chloroethane	63		8.628				ND	
81 cis-1,3-Dichloropropene	75		8.805				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012				ND	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1358281	9.09	
80 Chloroacetonitrile	75		9.158				ND	
84 Toluene	92		9.225				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75		9.524				ND	
86 Ethyl methacrylate	69		9.609				ND	
107 1,1,2-Trichloroethane	97		9.738				ND	
108 Tetrachloroethene	166	9.823	9.823	0.000	97	236868	5.06	
109 1,3-Dichloropropane	76		9.908				ND	
110 2-Hexanone	43		9.981				ND	
T 88 Hexachloroethane TIC	117	9.823	10.000	-0.177	11	2197	0.0161	
T 102 3-Chloro-1,2-propanediol TIC	43	10.695	10.000	0.695	18	655	0.004800	
T 91 Epichlorohydrin TIC	57		10.000				ND	
T 92 2-Bromoethanol TIC	45	9.134	10.000	-0.866	6	1230	0.009014	
T 87 Chloroacetaldehyde TIC	50	10.695	10.000	0.695	35	28738	0.2106	
T 97 2-Bromo-3-chloropropene TIC	75	10.701	10.000	0.701	4	16826	0.1233	
T 101 2-Chloroethanol TIC	44	10.079	10.000	0.079	1	509	0.003730	
T 90 Nitrobenzene TIC	77	10.695	10.000	0.695	6	9117	0.0668	
T 95 2,3-Dibromo-1-propanol TIC	57		10.000				ND	
T 103 Decamethylcyclotetrasiloxane TIC	73	10.701	10.000	0.701	1	4195	0.0307	
T 94 Isopropyl alcohol TIC	45		10.000				ND	
T 98 Epibromohydrin TIC	57		10.000				ND	
T 89 Vinyl bromide TIC	106	10.963	10.000	0.963	1	295	0.002162	
T 105 Vinyl acetate (TIC)	43		10.000				ND	
T 104 Ethylene oxide TIC	43		10.000				ND	
T 96 Methyl acrylate TIC	55		10.000				ND	
T 93 Monochloroacetic acid TIC	50	10.695	10.000	0.695	14	28738	0.2106	
T 99 2,3-Dibromopropene TIC	119	9.847	10.000	-0.153	1	239	0.001751	
T 100 Octamethylcyclotetrasiloxane TIC	28	11.816	10.000	1.816	90	10191	0.0747	
S 106 1,3-Dichloropropene, Total	100		10.060				ND	7
111 n-Butyl acetate	43		10.134				ND	
112 Chlorodibromomethane	129		10.134				ND	
113 Ethylene Dibromide	107		10.237				ND	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	85	1076335	10.0	
115 1-Chlorohexane	91		10.725				ND	7
116 Chlorobenzene	112		10.725				ND	
117 1,1,1,2-Tetrachloroethane	131		10.817				ND	
118 Ethylbenzene	91		10.823				ND	
120 m-Xylene & p-Xylene	106		10.945				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
121 o-Xylene	106		11.280				ND	
122 Styrene	104		11.298				ND	
123 Bromoform	173		11.451				ND	
124 Isopropylbenzene	105		11.591				ND	
125 cis-1,4-Dichloro-2-butene	88		11.658				ND	
126 Cyclohexanone	55		11.682				ND	U
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	89	477161	9.25	
128 1,1,2,2-Tetrachloroethane	83		11.841				ND	
129 Bromobenzene	156		11.841				ND	
130 trans-1,4-Dichloro-2-butene	53		11.865				ND	
131 1,2,3-Trichloropropane	110		11.883				ND	
132 N-Propylbenzene	91		11.920				ND	
133 2-Chlorotoluene	126		11.993				ND	
134 1,3,5-Trimethylbenzene	105		12.060				ND	
135 4-Chlorotoluene	126		12.085				ND	
136 tert-Butylbenzene	134		12.304				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
137 Pentachloroethane	167		12.328				ND	
138 1,2,4-Trimethylbenzene	105		12.347				ND	
139 sec-Butylbenzene	105		12.469				ND	
140 1,3-Dichlorobenzene	146		12.560				ND	
141 4-Isopropyltoluene	119		12.578				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.621	12.615	0.006	95	563968	10.0	
143 1,4-Dichlorobenzene	146		12.633				ND	
144 1,2,3-Trimethylbenzene	120		12.652				ND	7
145 Benzyl chloride	126		12.713				ND	
146 p-Diethylbenzene	119		12.847				ND	
147 n-Butylbenzene	92		12.871				ND	
148 1,2-Dichlorobenzene	146		12.889				ND	
150 1,2-Dibromo-3-Chloropropane	155		13.432				ND	
149 Hexachloroethane	201		13.499				ND	
151 1,3,5-Trichlorobenzene	180		13.560				ND	
152 1,2,4-Trichlorobenzene	180		13.974				ND	
153 Hexachlorobutadiene	225		14.066				ND	
154 Naphthalene	128		14.151				ND	
155 1,2,3-Trichlorobenzene	180		14.292				ND	
156 2-Methylnaphthalene	142		14.871				ND	
157 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
158 1-Chloropropane	1		0.000				ND	
159 1-Bromo-3-Chloropropane	1		0.000				ND	
160 Propene oxide	1		0.000				ND	
161 n-Decane	57		0.000				ND	
162 Methylal	1		0.000				ND	
163 tert-Butyl Formate	1		0.000				ND	
164 1,1-Dichloroacetone	1		0.000				ND	
165 Dodecane	57		0.000				ND	
166 2-Bromo-1-chloropropane	1		0.000				ND	
209 1,1-Dichloro-1-fluoroethane TIC1			0.000				ND	
167 Pentane	43		2.782				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X16.D

Injection Date: 01-Apr-2025 04:32:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-A-6

Lab Sample ID: 410-214590-6

Worklist Smp#: 17

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

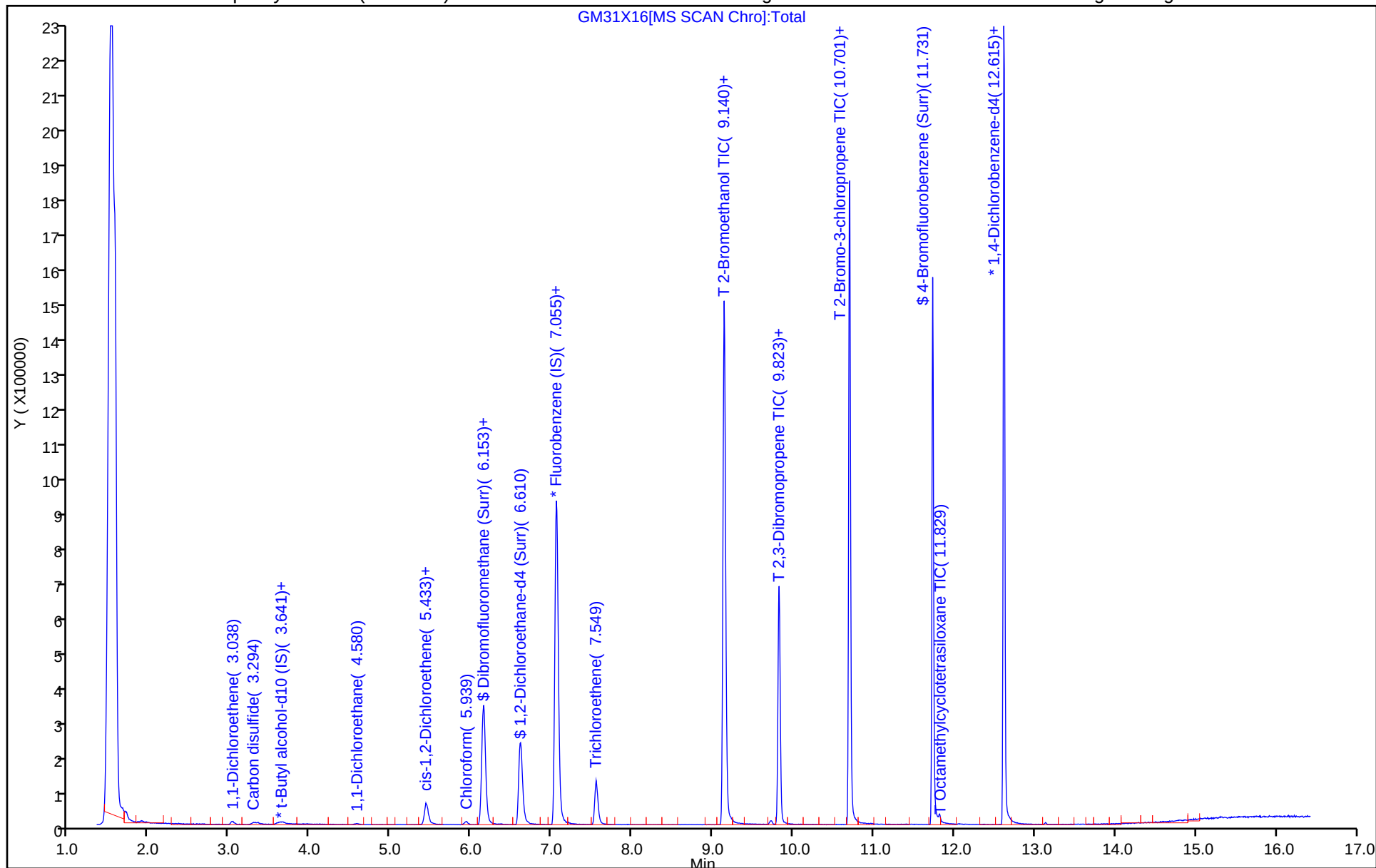
ALS Bottle#: 16

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X16.D
Lims ID: 410-214590-A-6
Client ID: HD-COD-SW-15-0/1-0
Sample Type: Client
Inject. Date: 01-Apr-2025 04:32:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-017
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 02-Apr-2025 07:59:27 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:59:27

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.4	103.93
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.0	100.36
\$ 83 Toluene-d8 (Surr)	10.0	9.09	90.92
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.25	92.49

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X16.D

Injection Date: 01-Apr-2025 04:32:30

Instrument ID: 16334

Lims ID: 410-214590-A-6

Lab Sample ID: 410-214590-6

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

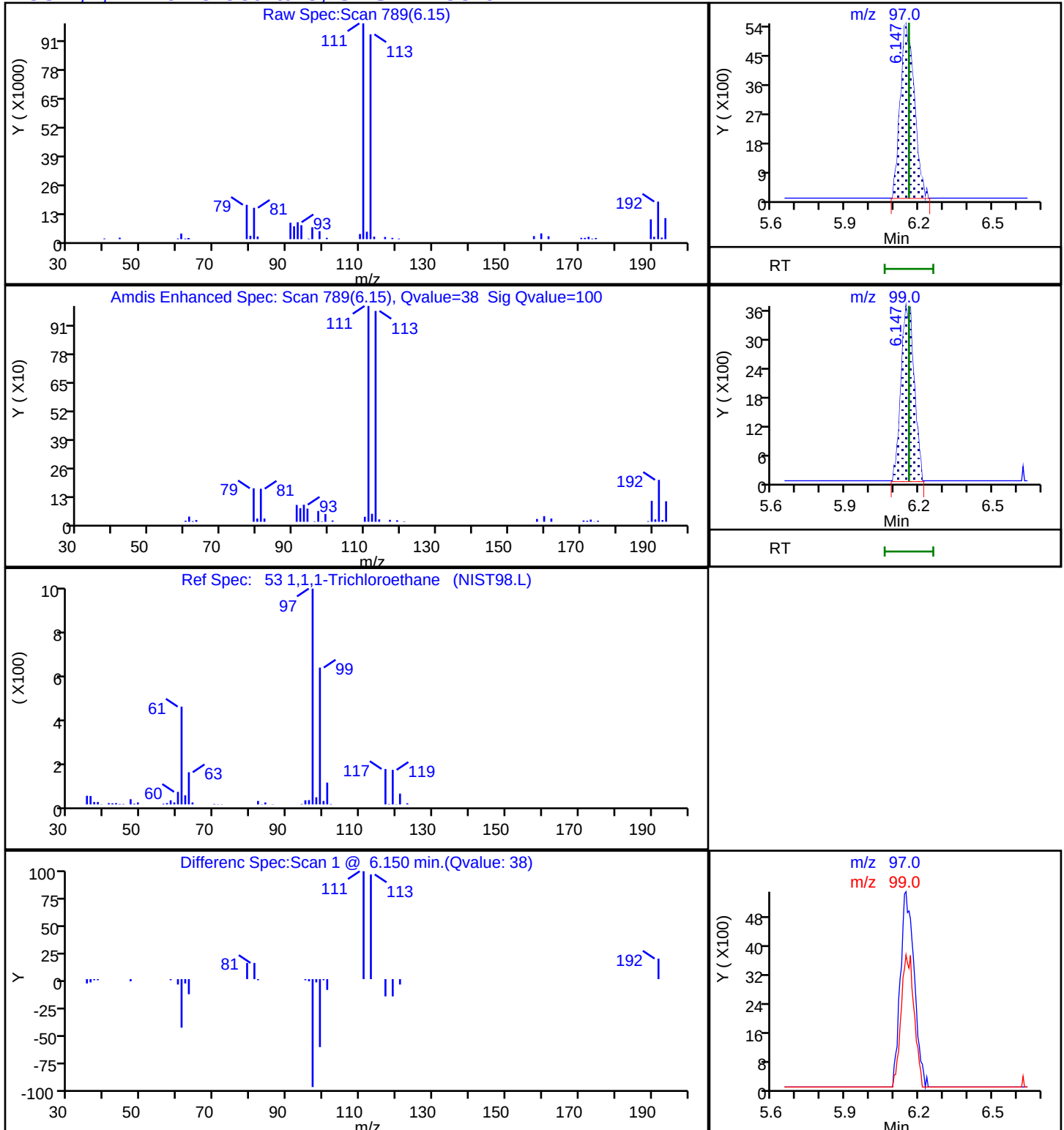
Dil. Factor: 1.0000

Method: MSV_16334_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\16334\20250331-142555.b\GM31X16.D

Injection Date: 01-Apr-2025 04:32:30

Instrument ID: 16334

Lims ID: 410-214590-A-6

Lab Sample ID: 410-214590-6

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

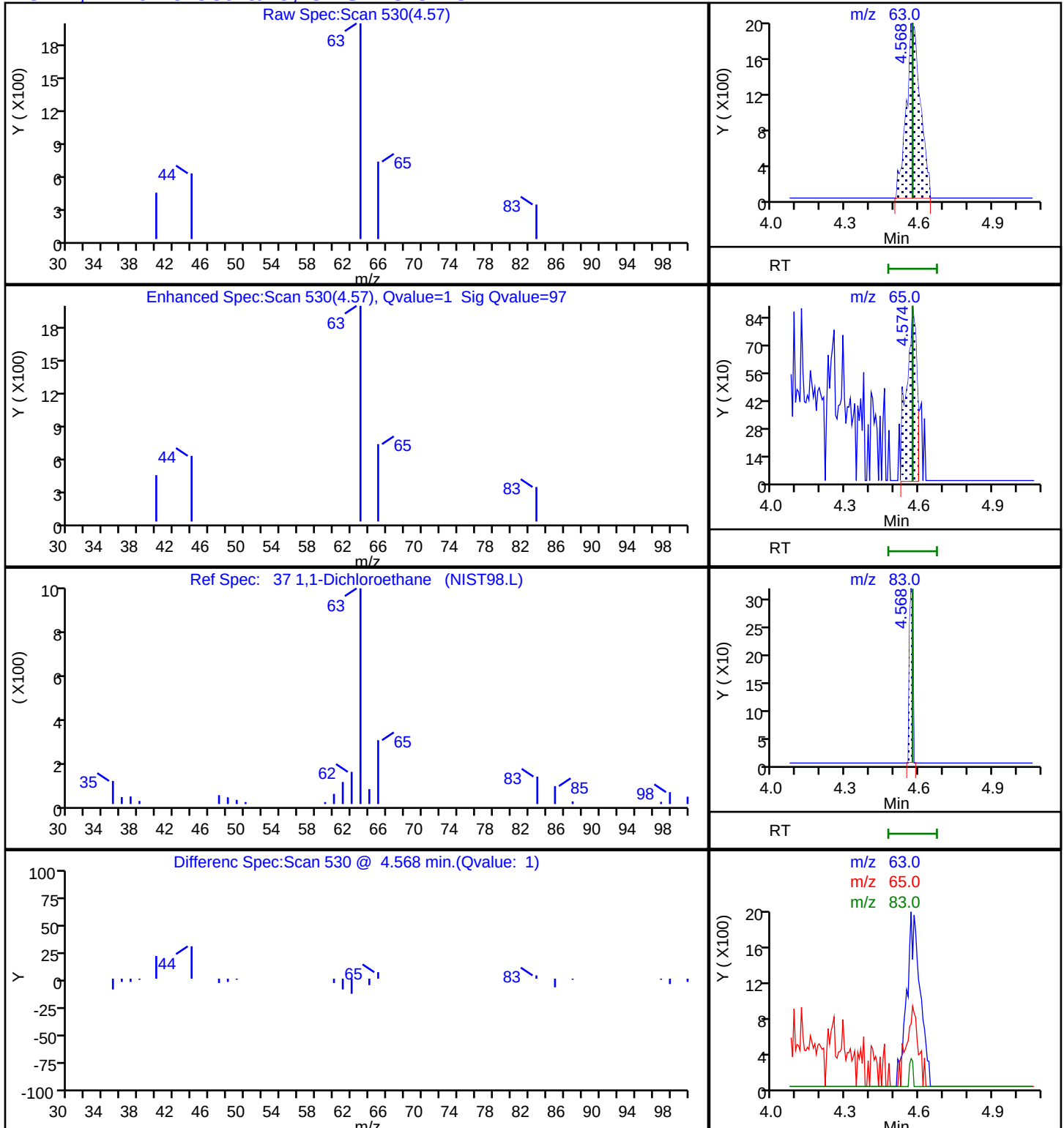
Dil. Factor: 1.0000

Method: MSV_16334_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

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X16.D

Injection Date: 01-Apr-2025 04:32:30

Instrument ID: 16334

Lims ID: 410-214590-A-6

Lab Sample ID: 410-214590-6

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

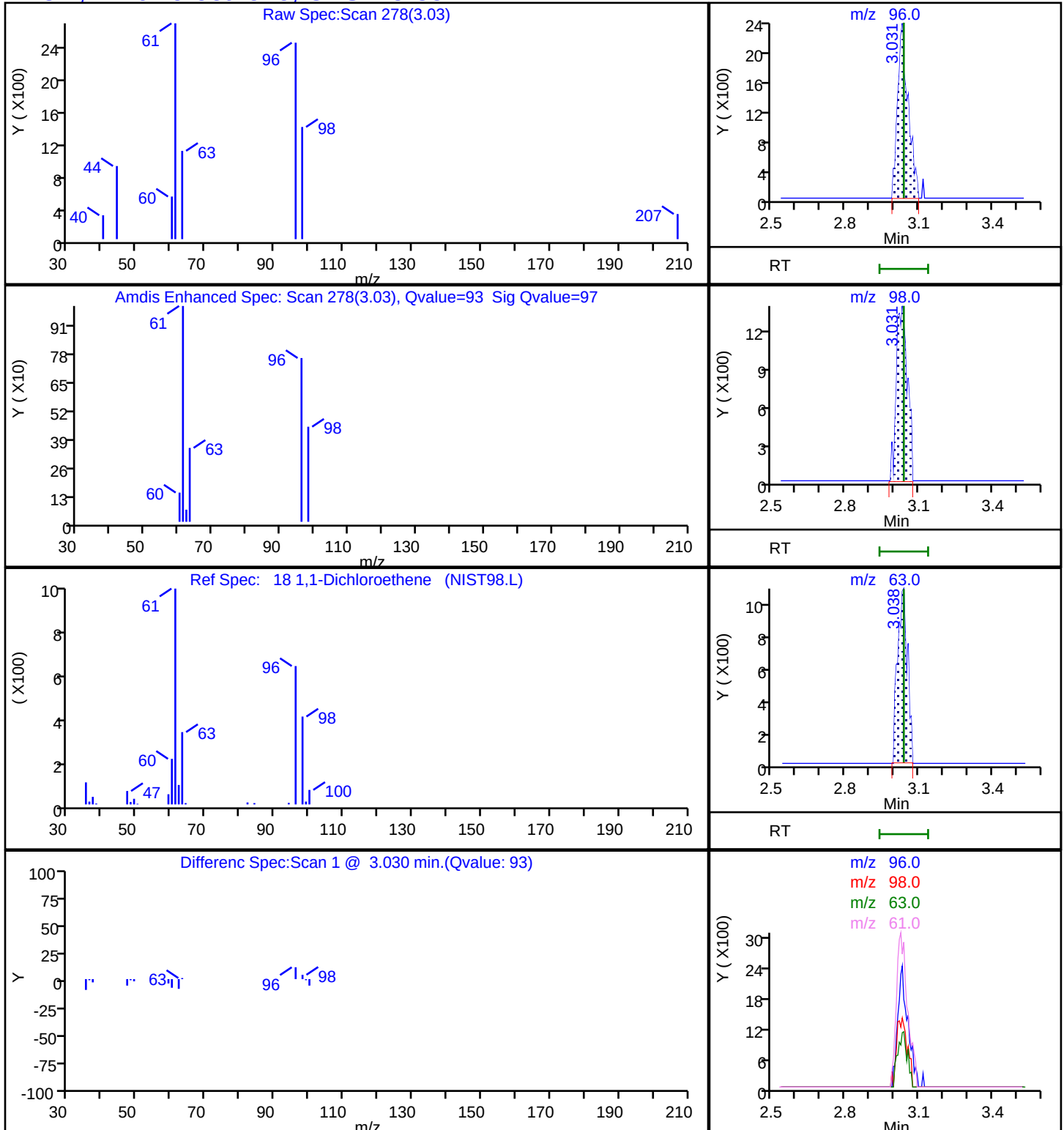
Dil. Factor: 1.0000

Method: MSV_16334_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\16334\20250331-142555.b\GM31X16.D

Injection Date: 01-Apr-2025 04:32:30

Instrument ID: 16334

Lims ID: 410-214590-A-6

Lab Sample ID: 410-214590-6

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

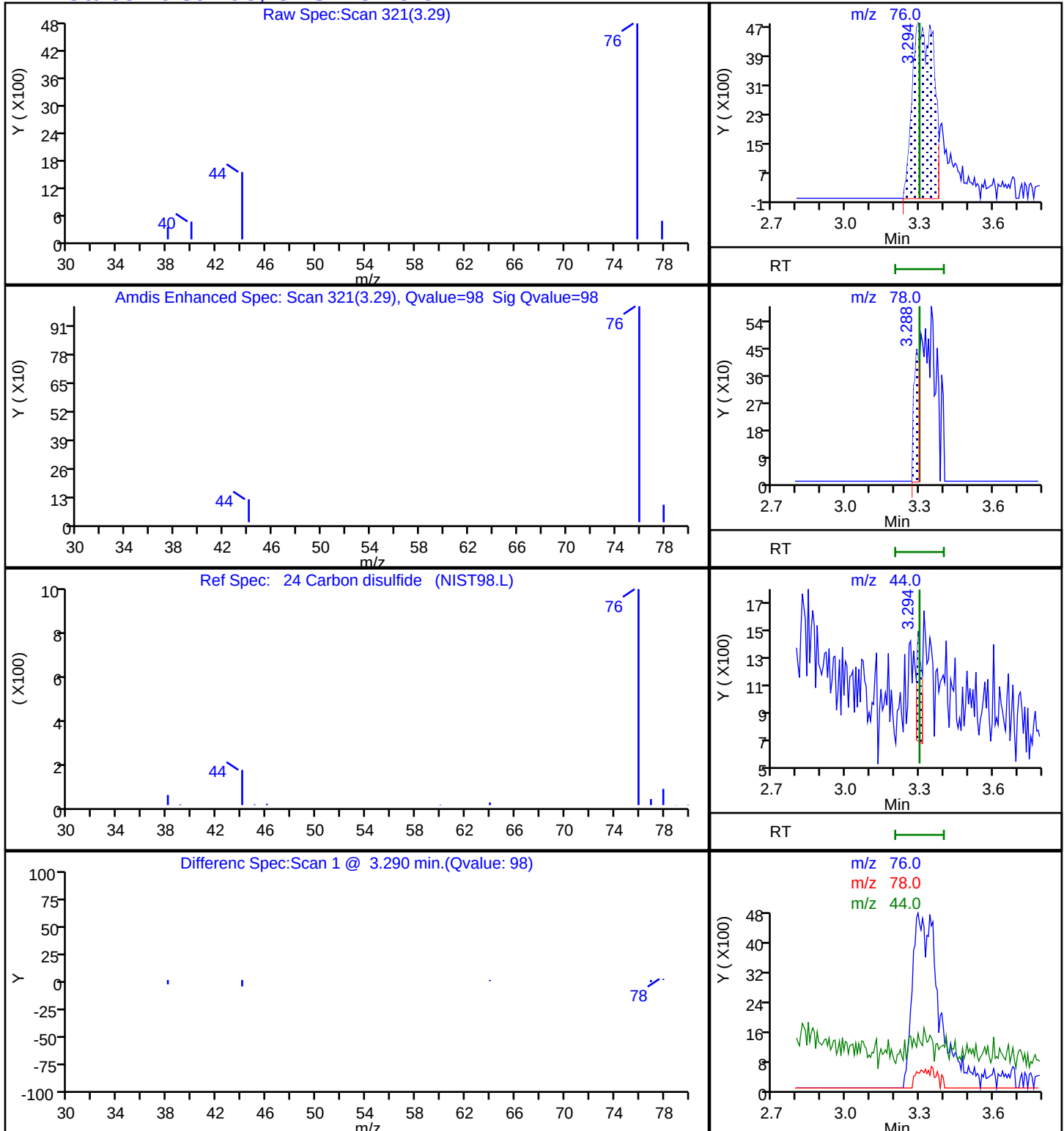
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

24 Carbon disulfide, CAS: 75-15-0

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X16.D

Injection Date: 01-Apr-2025 04:32:30

Instrument ID: 16334

Lims ID: 410-214590-A-6

Lab Sample ID: 410-214590-6

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

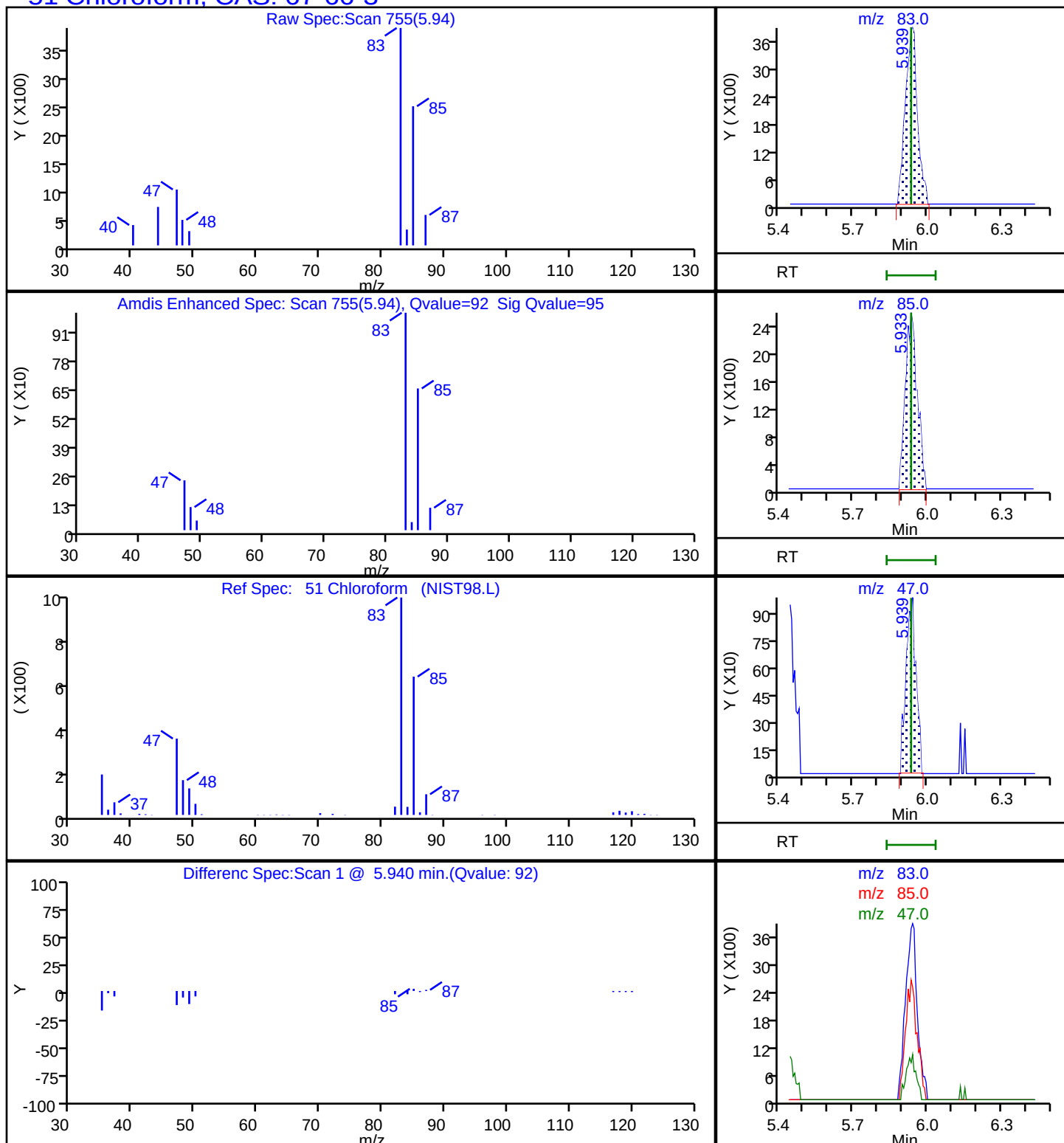
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

51 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X16.D

Injection Date: 01-Apr-2025 04:32:30

Instrument ID: 16334

Lims ID: 410-214590-A-6

Lab Sample ID: 410-214590-6

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

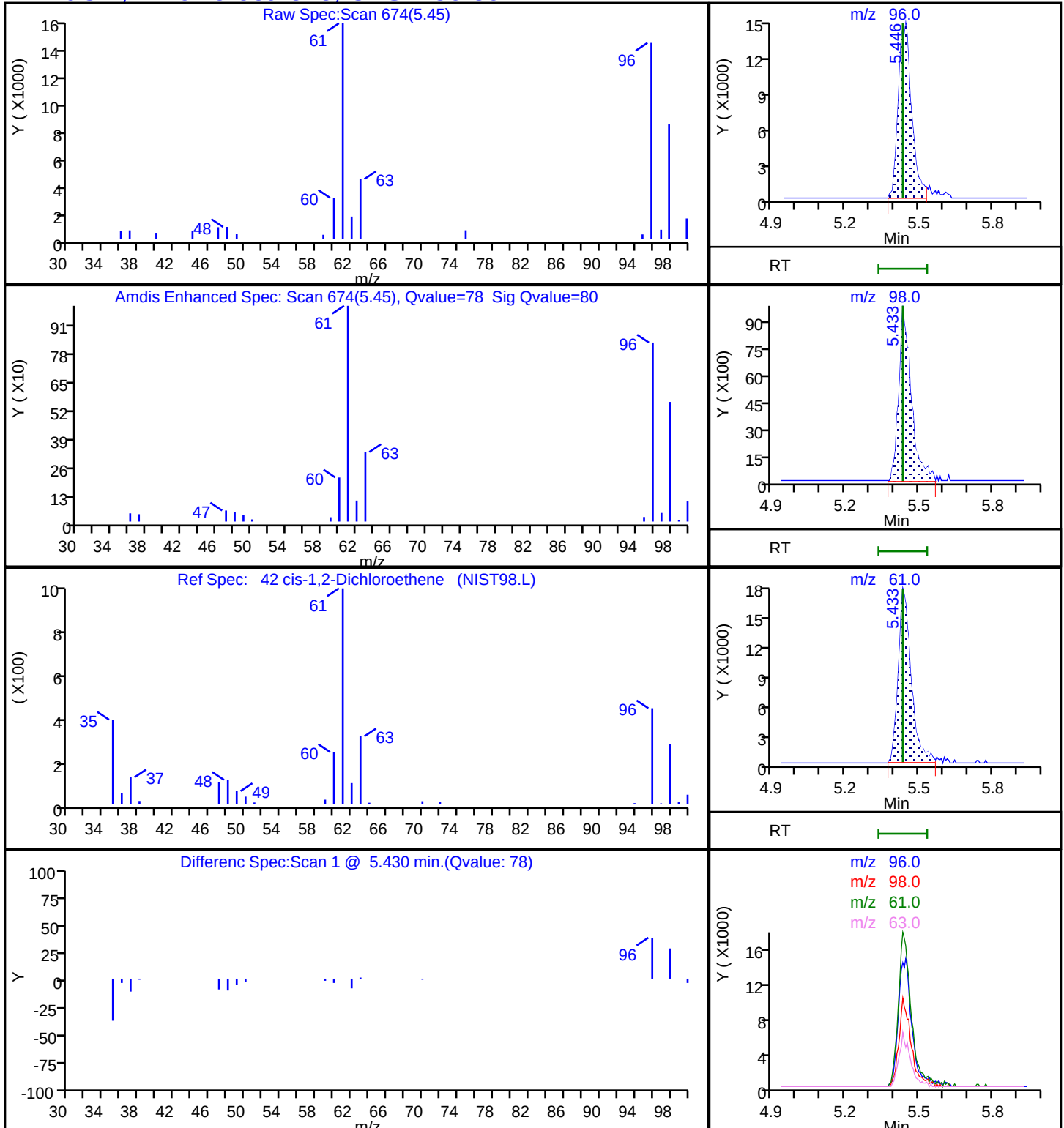
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X16.D

Injection Date: 01-Apr-2025 04:32:30

Instrument ID: 16334

Lims ID: 410-214590-A-6

Lab Sample ID: 410-214590-6

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

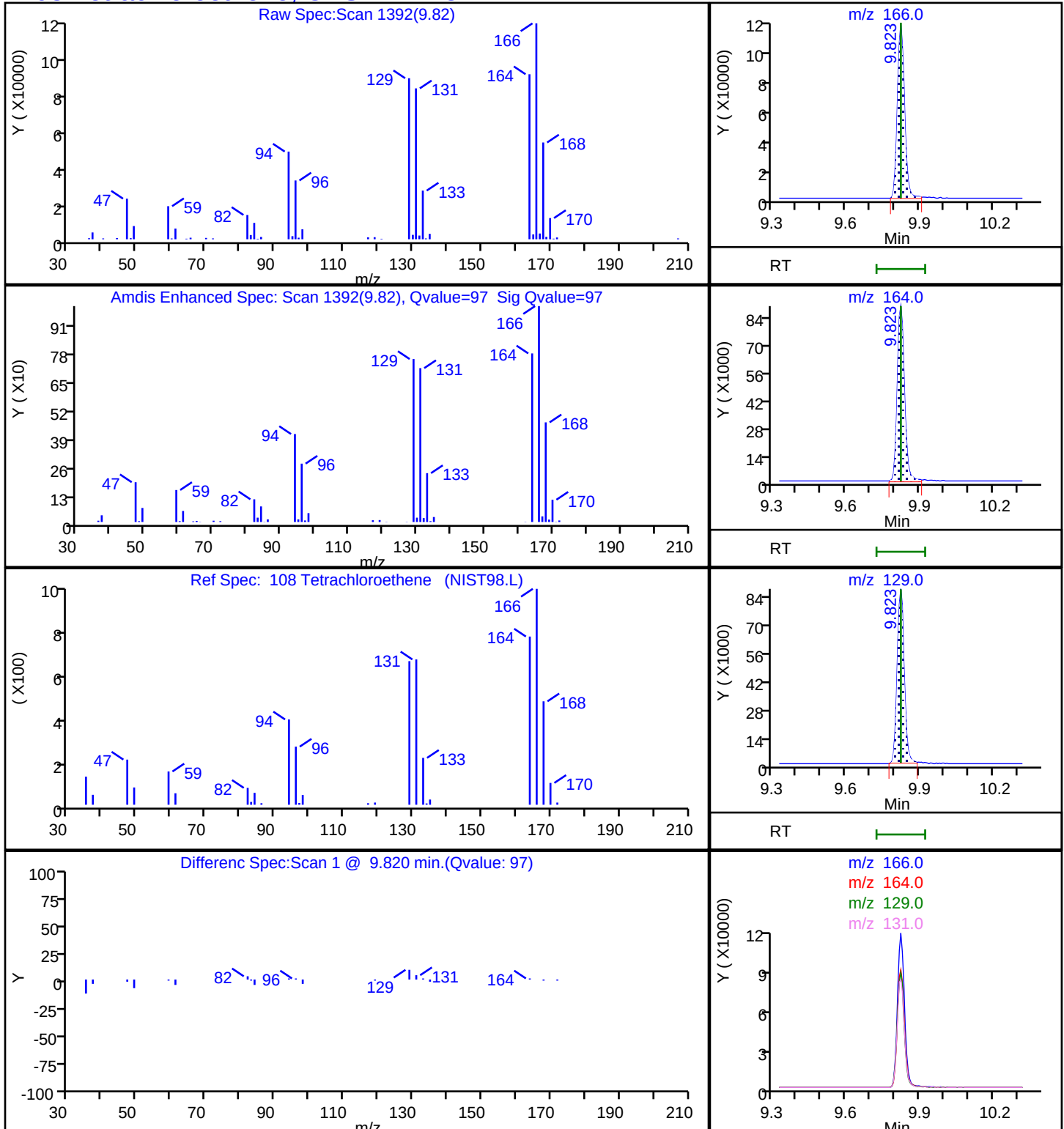
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

108 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X16.D

Injection Date: 01-Apr-2025 04:32:30

Instrument ID: 16334

Lims ID: 410-214590-A-6

Lab Sample ID: 410-214590-6

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

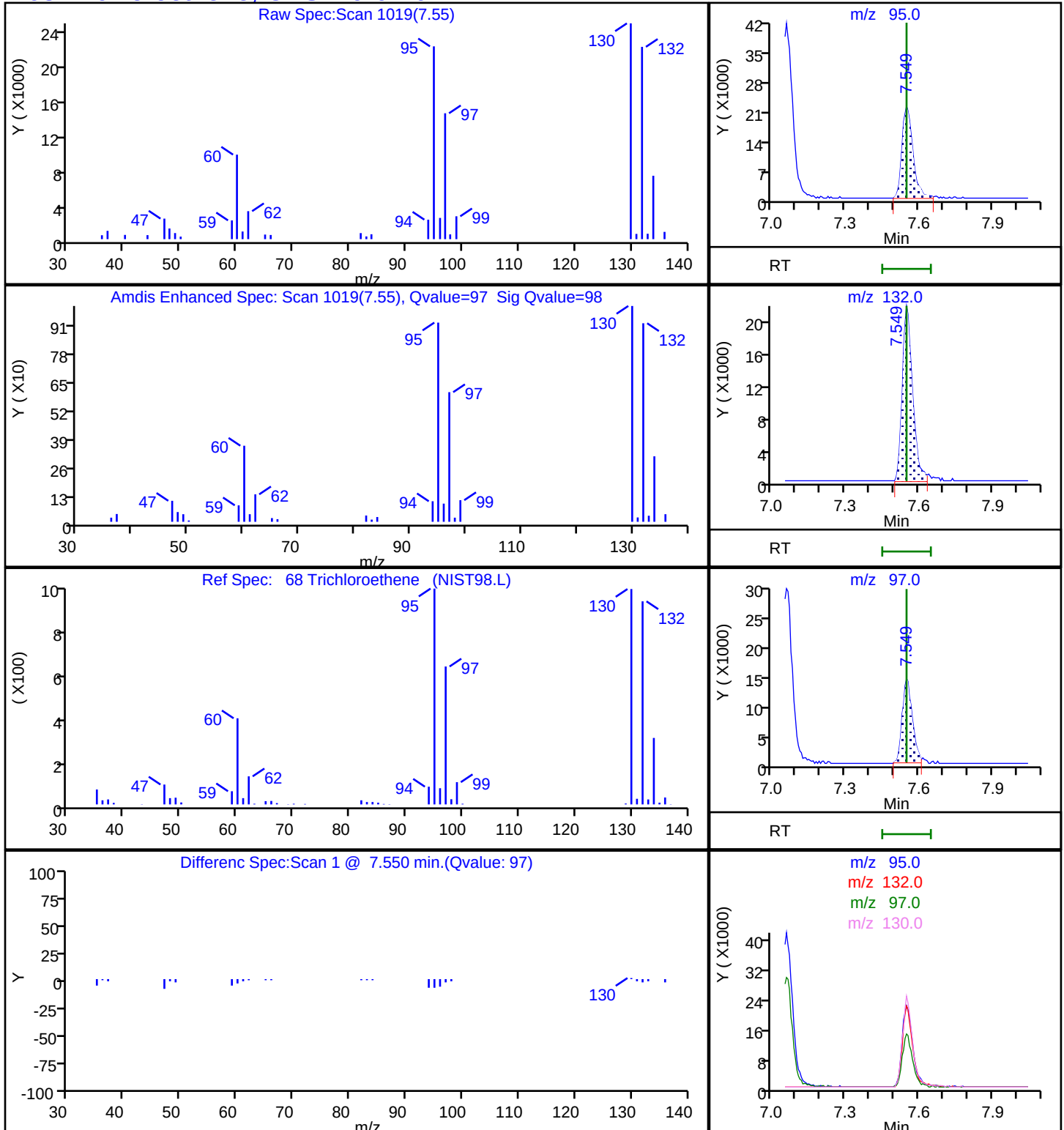
Dil. Factor: 1.0000

Method: MSV_16334_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

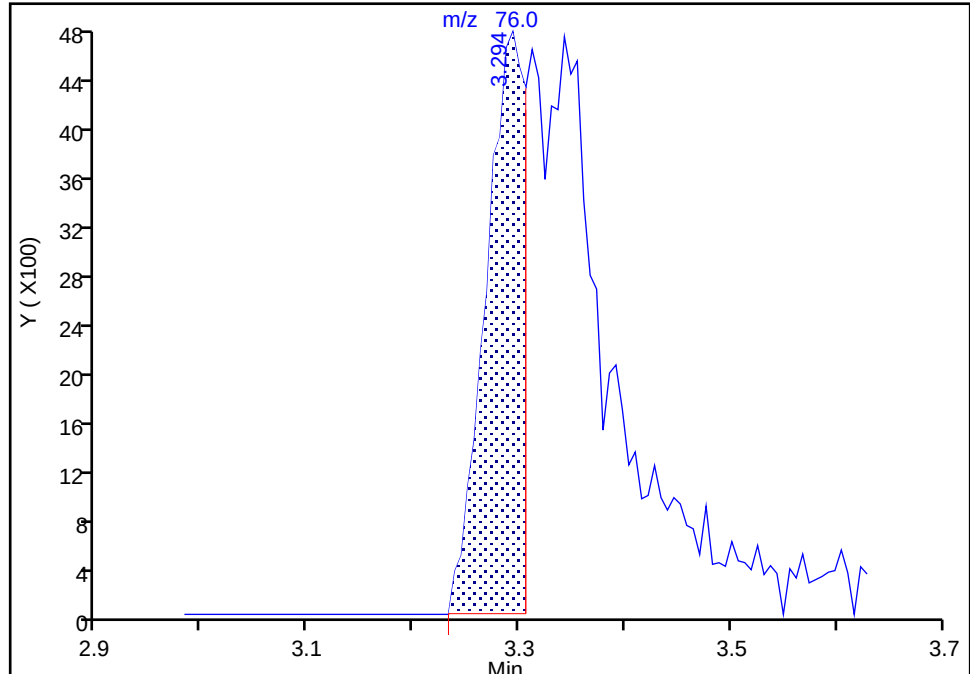
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Injection Date: 01-Apr-2025 04:32:30 Instrument ID: 16334
Lims ID: 410-214590-A-6 Lab Sample ID: 410-214590-6
Client ID: HD-COD-SW-15-0/1-0
Operator ID: gaw91131 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

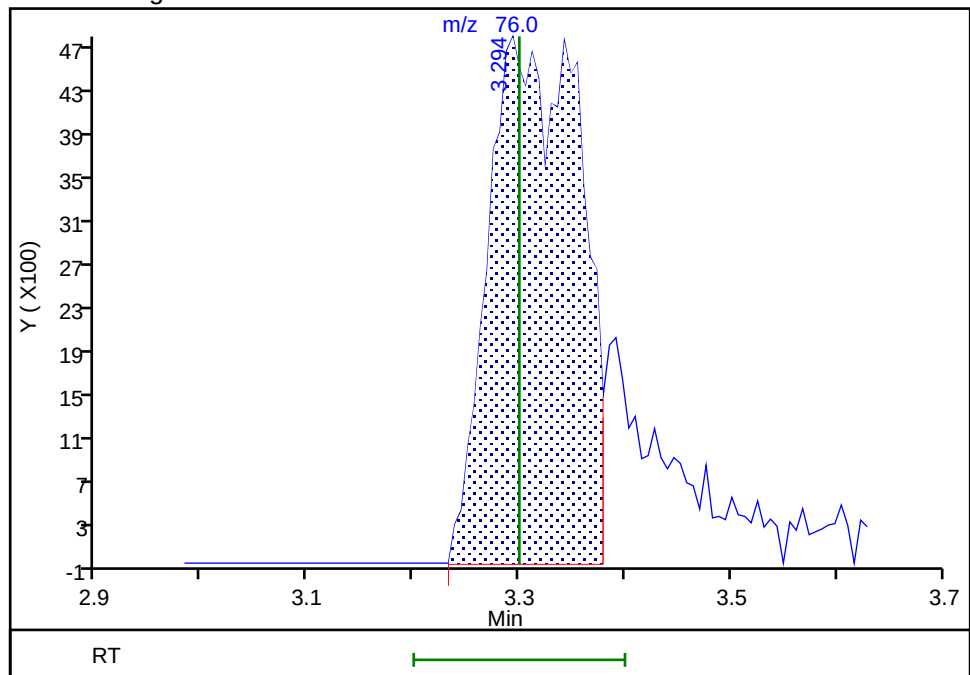
RT: 3.29
Area: 12348
Amount: 0.109449
Amount Units: ug/l

Processing Integration Results



RT: 3.29
Area: 28660
Amount: 0.254034
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 02-Apr-2025 07:58:45 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.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-7

Matrix: Water

Lab File ID: GM31X19.D

Analysis Method: 8260D

Date Collected: 03/27/2025 09:15

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 05:38

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

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	^c cn	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	0.35	J cn	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	0.16	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	1.6		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	Job No.: 410-214590-1
SDG No.:	
Client Sample ID: HD-COD-SW-16-0/1-0	Lab Sample ID: 410-214590-7
Matrix: Water	Lab File ID: GM31X19.D
Analysis Method: 8260D	Date Collected: 03/27/2025 09:15
Sample wt/vol: 25 (mL)	Date Analyzed: 04/01/2025 05:38
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.: 624273	Units: ug/L
Preparation Batch No.:	Instrument ID: 16334

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	0.25	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)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X19.D
 Lims ID: 410-214590-A-7
 Client ID: HD-COD-SW-16-0/1-0
 Sample Type: Client
 Inject. Date: 01-Apr-2025 05:38:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-020
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 02-Apr-2025 07:55:00 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:55:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.867	1.885	-0.018	93	3557	0.0679	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.276				ND	
10 Chloroethane	64		2.318				ND	7
18 1,1-Dichloroethene	96		3.038				ND	
19 Acetone	43		3.068				ND	U
24 Carbon disulfide	76	3.282	3.300	-0.018	99	39193	0.3472	M
29 Methylene Chloride	84		3.592				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.635	3.617	0.018	21	56997	50.0	
33 Methyl tert-butyl ether	73		3.946				ND	
34 trans-1,2-Dichloroethene	96		3.946				ND	
37 1,1-Dichloroethane	63		4.574				ND	
41 2-Butanone (MEK)	43		5.421				ND	
42 cis-1,2-Dichloroethene	96	5.446	5.433	0.013	78	6418	0.1621	
49 Chlorobromomethane	128		5.775				ND	
51 Chloroform	83	5.921	5.933	-0.012	86	5462	0.0849	a
\$ 52 Dibromofluoromethane (Surr)	113	6.153	6.153	0.000	93	342491	10.6	
53 1,1,1-Trichloroethane	97		6.159				ND	
55 Carbon tetrachloride	117		6.372				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.616	-0.006	65	60531	9.85	
60 Benzene	78		6.641				ND	7
61 1,2-Dichloroethane	62		6.714				ND	
* 64 Fluorobenzene (IS)	96	7.055	7.061	-0.006	99	1365471	10.0	
68 Trichloroethene	95	7.555	7.549	0.006	94	9581	0.2460	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.238				ND	7
81 cis-1,3-Dichloropropene	75		8.805				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012				ND	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1388728	9.39	
84 Toluene	92	9.238	9.225	0.013	96	3981	0.0388	
85 trans-1,3-Dichloropropene	75		9.524				ND	
107 1,1,2-Trichloroethane	97		9.738				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	9.829	9.823	0.006	97	75942	1.64	
110 2-Hexanone	43		9.981				ND	
112 Chlorodibromomethane	129		10.134				ND	
113 Ethylene Dibromide	107		10.237				ND	
* 114 Chlorobenzene-d5 (IS)	117	10.695	10.701	-0.006	85	1065660	10.0	
116 Chlorobenzene	112		10.725				ND	
117 1,1,1,2-Tetrachloroethane	131		10.817				ND	
118 Ethylbenzene	91		10.823				ND	
120 m-Xylene & p-Xylene	106		10.945				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
121 o-Xylene	106		11.280				ND	
122 Styrene	104		11.298				ND	
123 Bromoform	173		11.451				ND	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	89	479052	9.38	
128 1,1,2,2-Tetrachloroethane	83		11.841				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	95	560413	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X19.D

Injection Date: 01-Apr-2025 05:38:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-A-7

Lab Sample ID: 410-214590-7

Worklist Smp#: 20

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

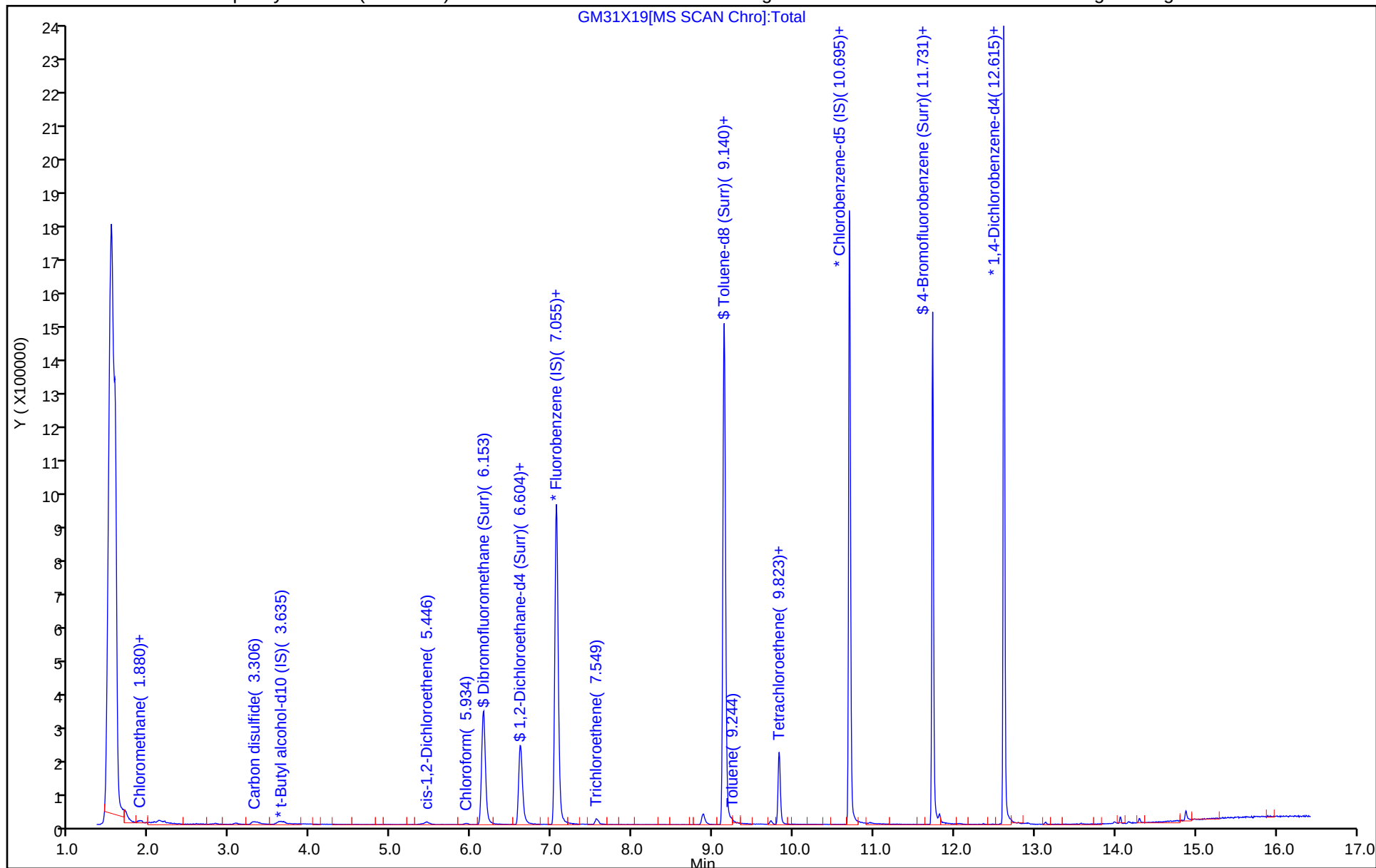
ALS Bottle#: 19

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X19.D
Lims ID: 410-214590-A-7
Client ID: HD-COD-SW-16-0/1-0
Sample Type: Client
Inject. Date: 01-Apr-2025 05:38:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-020
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 02-Apr-2025 07:55:00 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:55:00

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.6	106.31
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.85	98.49
\$ 83 Toluene-d8 (Surr)	10.0	9.39	93.89
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.38	93.78

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X19.D

Injection Date: 01-Apr-2025 05:38:30

Instrument ID: 16334

Lims ID: 410-214590-A-7

Lab Sample ID: 410-214590-7

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

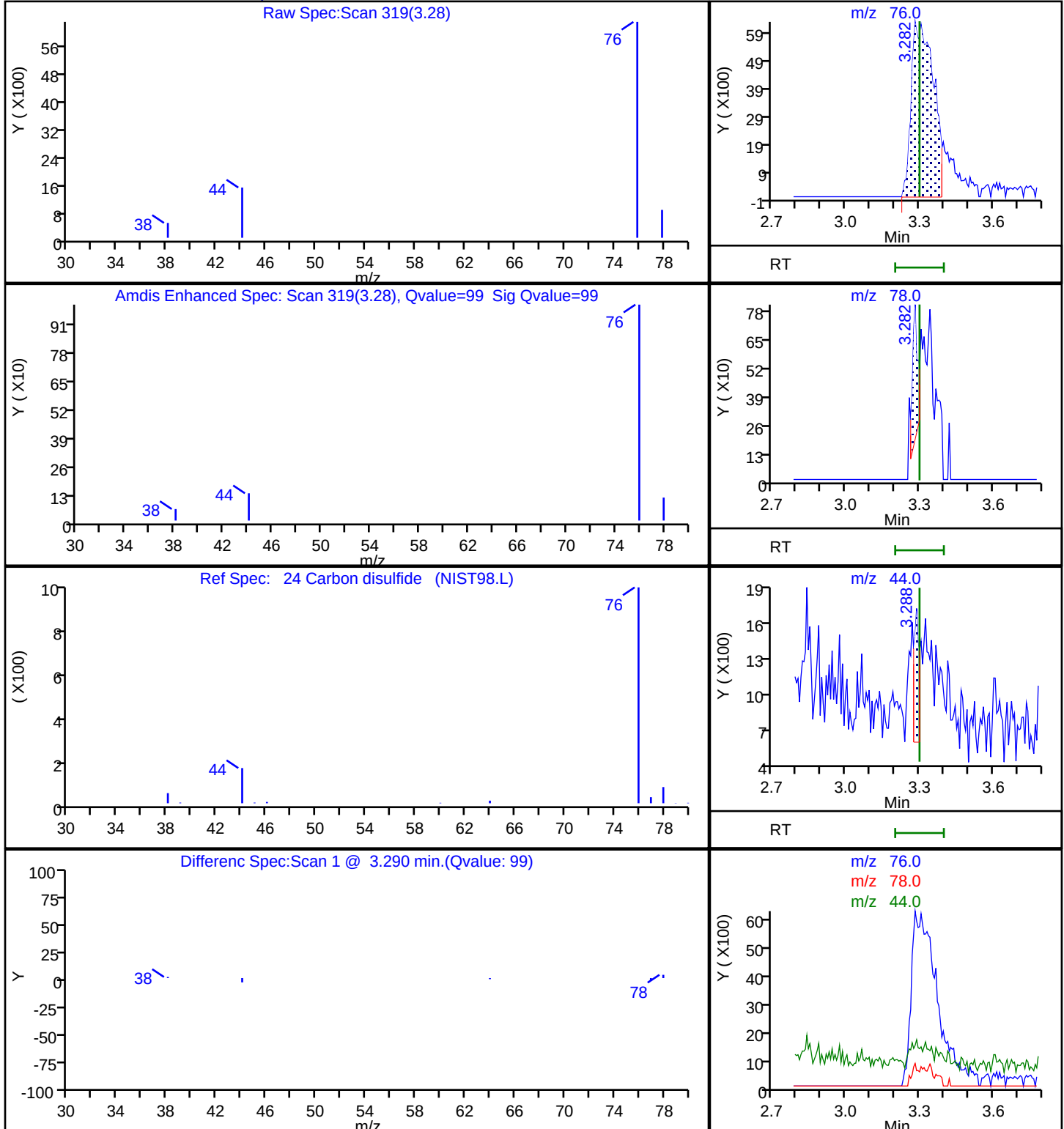
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

24 Carbon disulfide, CAS: 75-15-0

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X19.D

Injection Date: 01-Apr-2025 05:38:30

Instrument ID: 16334

Lims ID: 410-214590-A-7

Lab Sample ID: 410-214590-7

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

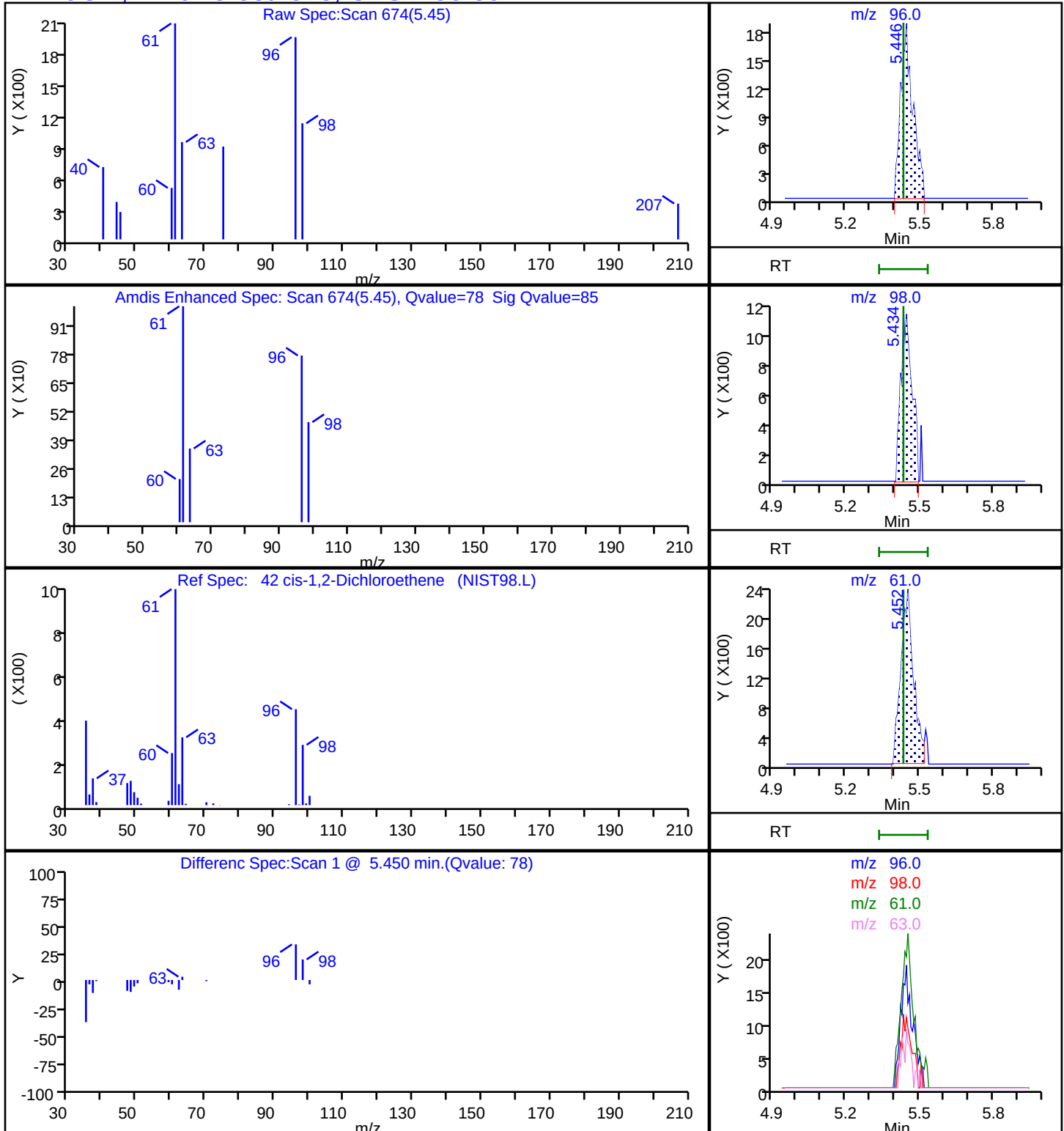
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X19.D

Injection Date: 01-Apr-2025 05:38:30

Instrument ID: 16334

Lims ID: 410-214590-A-7

Lab Sample ID: 410-214590-7

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

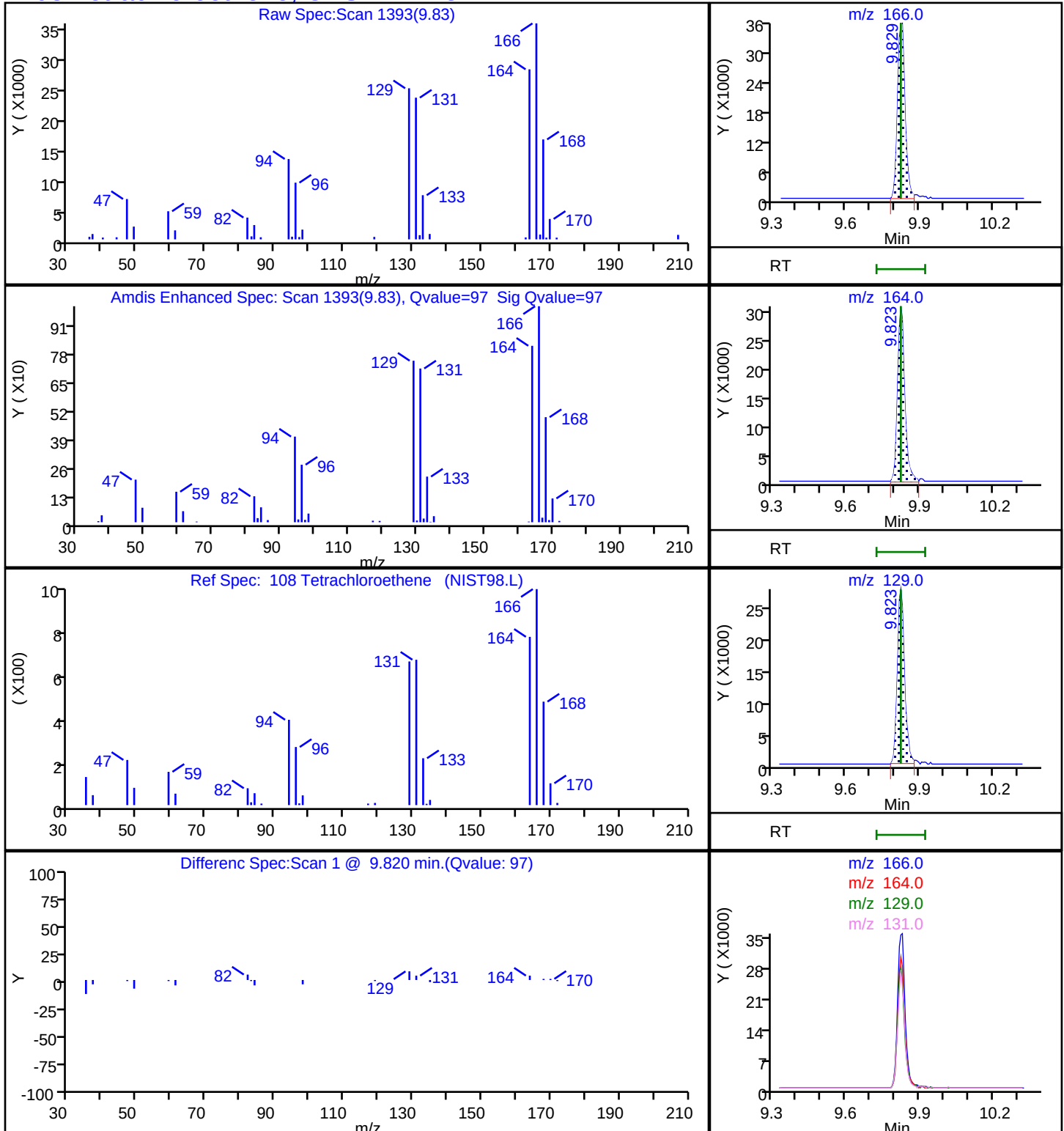
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

108 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X19.D

Injection Date: 01-Apr-2025 05:38:30

Instrument ID: 16334

Lims ID: 410-214590-A-7

Lab Sample ID: 410-214590-7

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

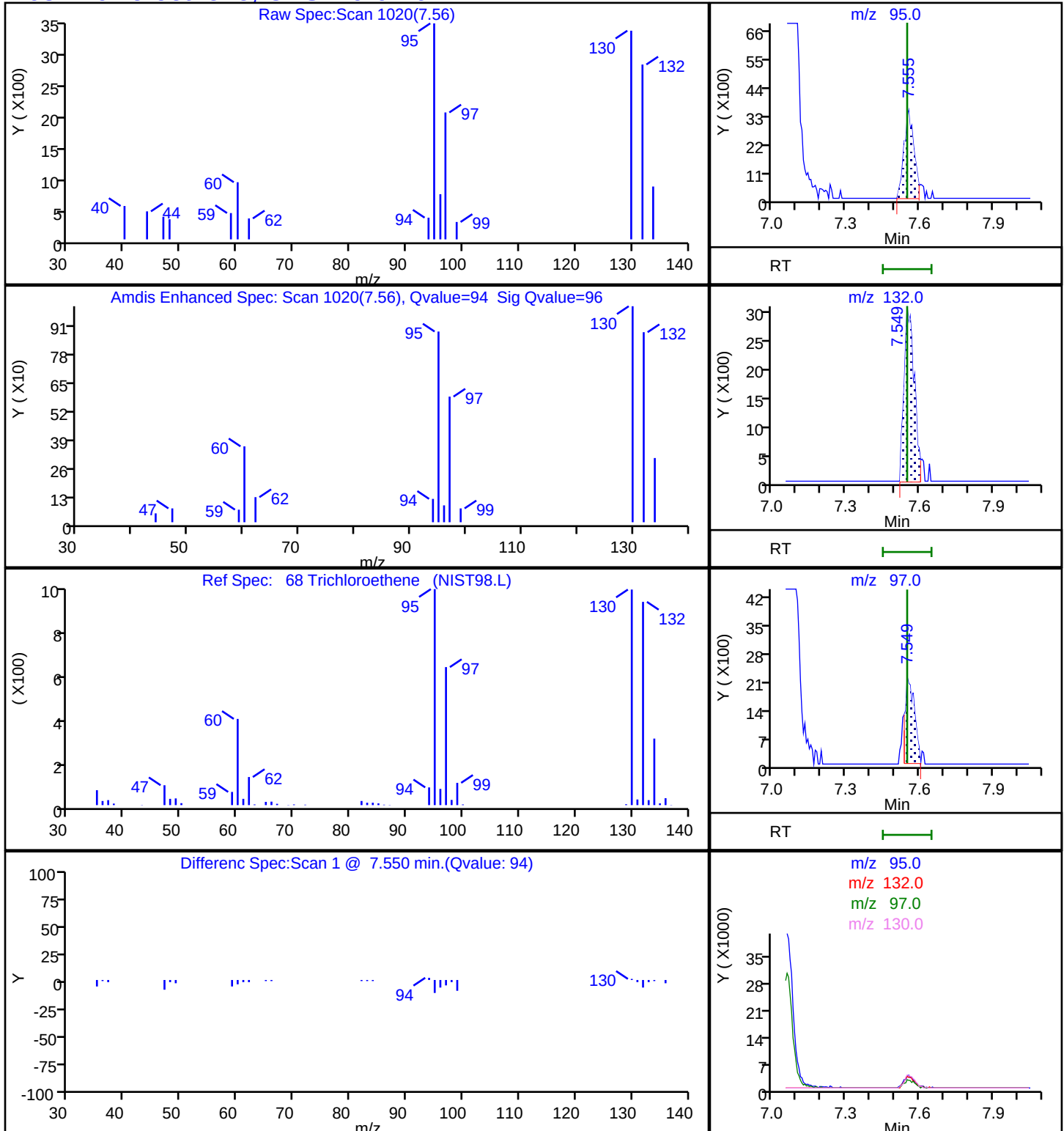
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

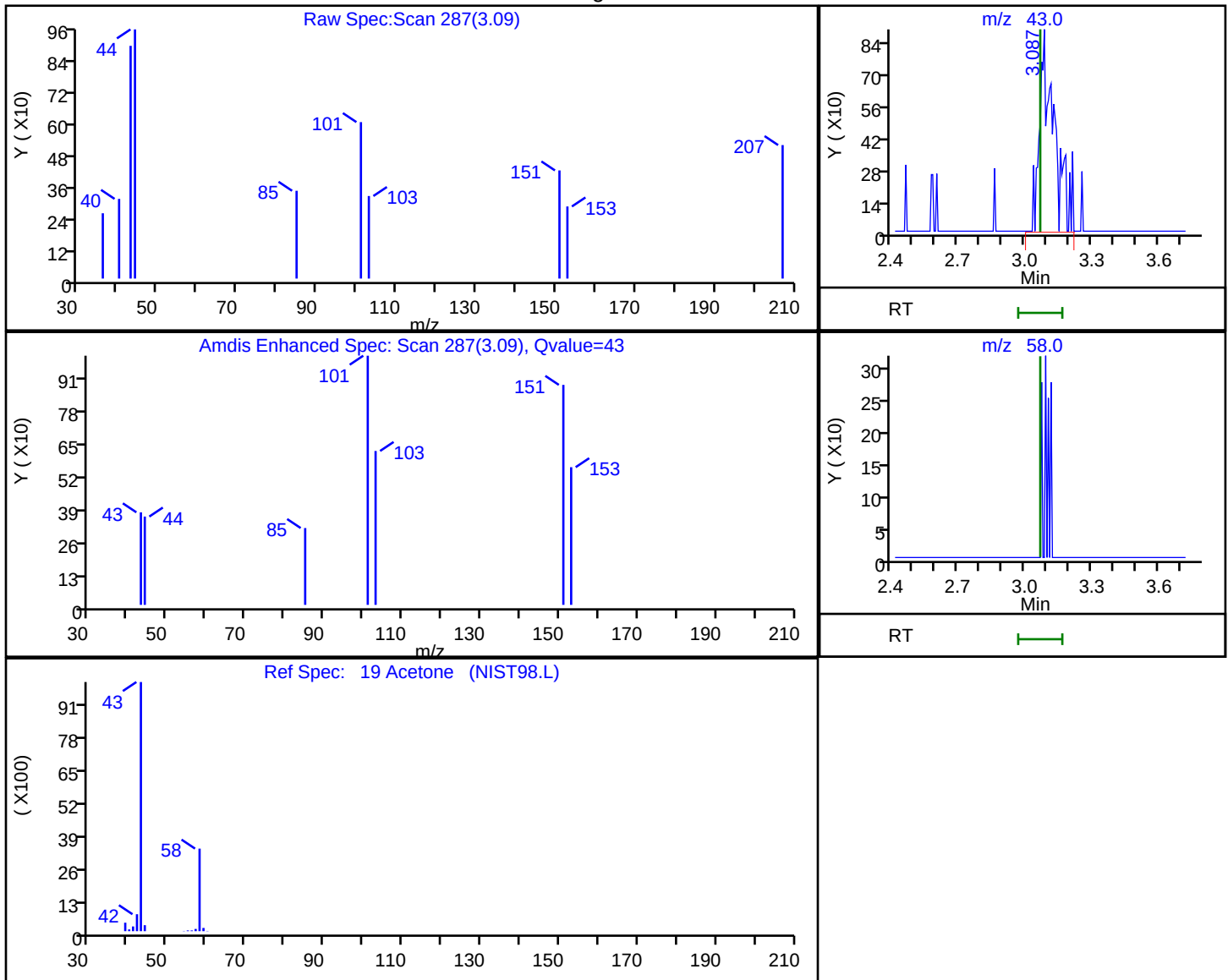
68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X19.D
Injection Date: 01-Apr-2025 05:38:30 Instrument ID: 16334
Lims ID: 410-214590-A-7 Lab Sample ID: 410-214590-7
Client ID: HD-COD-SW-16-0/1-0
Operator ID: gaw91131 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) MS Quad

19 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.09	43.00	4154	1.270139
3.07	58.00	0	

Reviewer: FQ4L, 02-Apr-2025 07:54:16 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

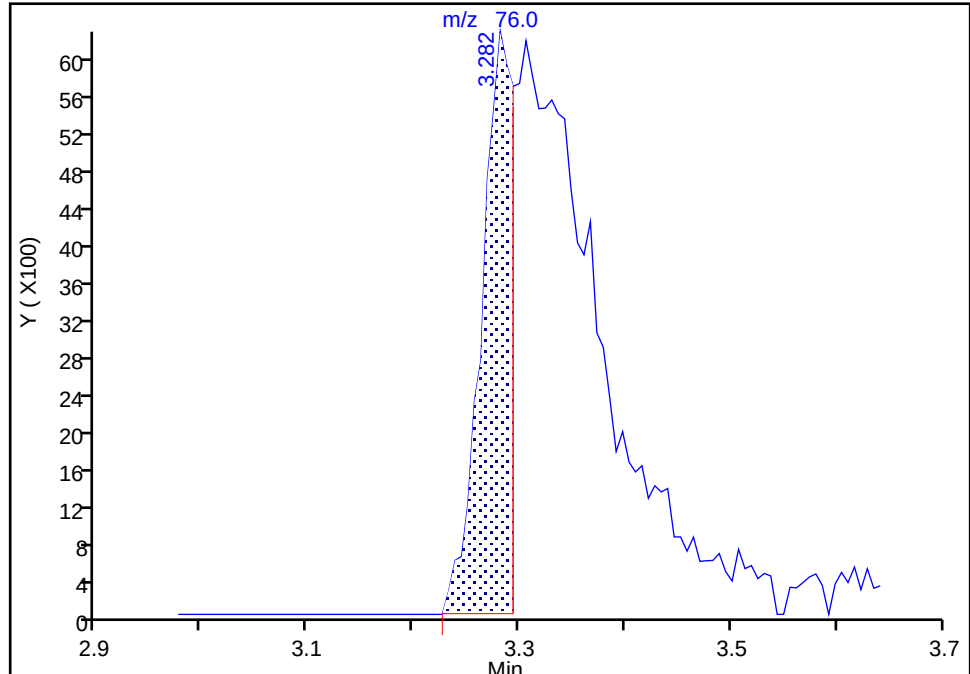
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X19.D
Injection Date: 01-Apr-2025 05:38:30 Instrument ID: 16334
Lims ID: 410-214590-A-7 Lab Sample ID: 410-214590-7
Client ID: HD-COD-SW-16-0/1-0
Operator ID: gaw91131 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

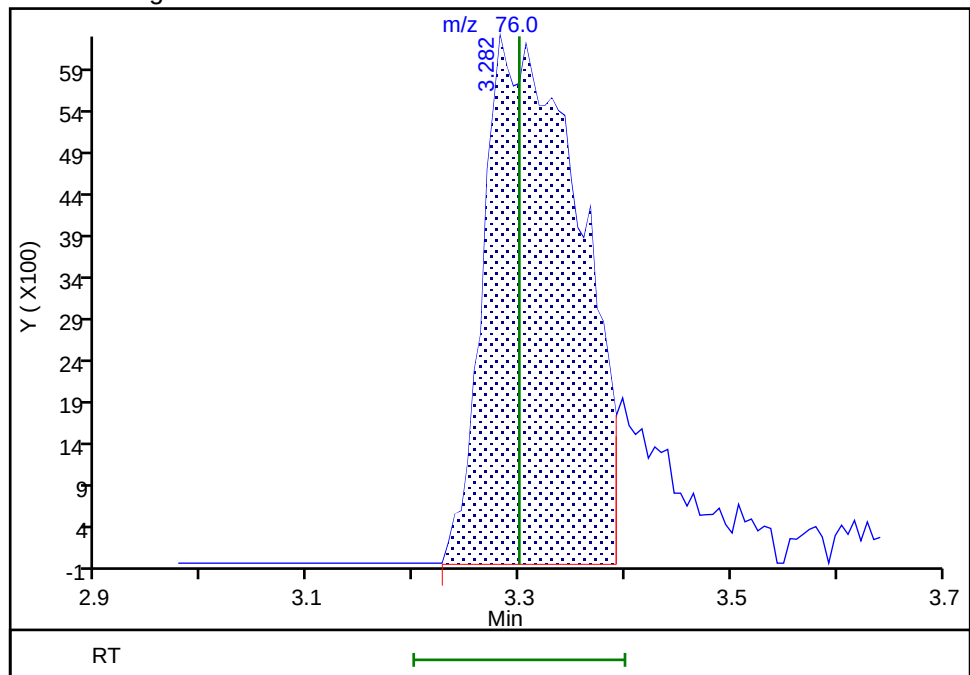
RT: 3.28
Area: 13048
Amount: 0.115574
Amount Units: ug/l

Processing Integration Results



RT: 3.28
Area: 39193
Amount: 0.347155
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 02-Apr-2025 07:54:27 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

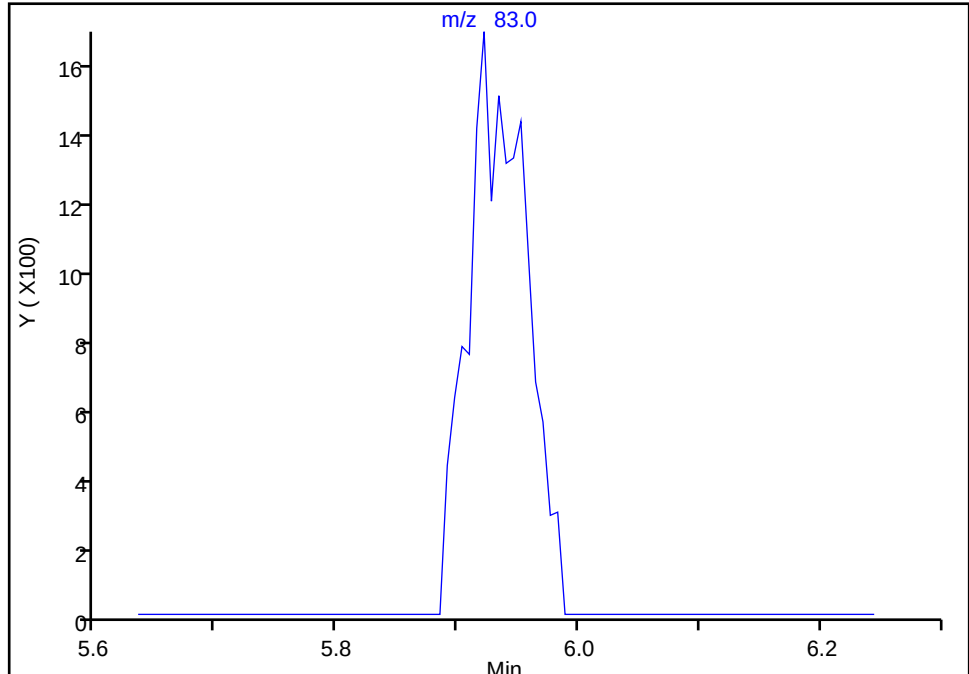
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X19.D
Injection Date: 01-Apr-2025 05:38:30 Instrument ID: 16334
Lims ID: 410-214590-A-7 Lab Sample ID: 410-214590-7
Client ID: HD-COD-SW-16-0/1-0
Operator ID: gaw91131 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

51 Chloroform, CAS: 67-66-3

Signal: 1

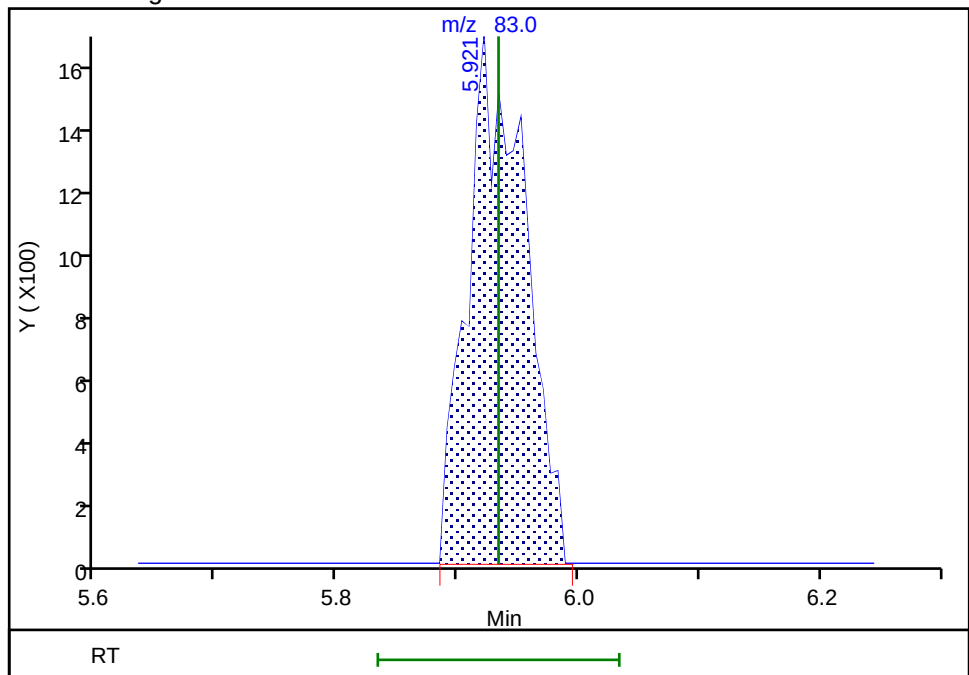
Not Detected
Expected RT: 5.93

Processing Integration Results



RT: 5.92
Area: 5462
Amount: 0.084910
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 02-Apr-2025 07:54:40 07:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-8

Matrix: Water

Lab File ID: GM31X24.D

Analysis Method: 8260D

Date Collected: 03/27/2025 09:22

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 07:28

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

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	13		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	1.9		0.50	0.10
75-35-4	1,1-Dichloroethene	0.92		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	^c cn	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	0.21	J cn	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	2.8		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 Job No.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 410-214590-8

Matrix: Water Lab File ID: GM31X24.D

Analysis Method: 8260D Date Collected: 03/27/2025 09:22

Sample wt/vol: 25 (mL) Date Analyzed: 04/01/2025 07:28

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.: 624273 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 16334

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	6.0		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)	95		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)	90		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X24.D
 Lims ID: 410-214590-A-8
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 01-Apr-2025 07:28:30 ALS Bottle#: 24 Worklist Smp#: 25
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-025
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 02-Apr-2025 07:29:49 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:29:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.885				ND	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.276				ND	
10 Chloroethane	64		2.318				ND	
18 1,1-Dichloroethene	96	3.032	3.038	-0.006	96	27715	0.9223	
19 Acetone	43		3.068				ND	
24 Carbon disulfide	76	3.324	3.300	0.024	97	23389	0.2123	M
29 Methylene Chloride	84		3.592				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.641	3.617	0.024	21	44582	50.0	
33 Methyl tert-butyl ether	73		3.946				ND	7
34 trans-1,2-Dichloroethene	96		3.946				ND	
37 1,1-Dichloroethane	63	4.574	4.574	0.000	96	120546	1.88	
41 2-Butanone (MEK)	43		5.421				ND	
42 cis-1,2-Dichloroethene	96	5.434	5.433	0.001	77	109069	2.82	
49 Chlorobromomethane	128		5.775				ND	
51 Chloroform	83	5.940	5.933	0.007	89	11429	0.1821	
\$ 52 Dibromofluoromethane (Surr)	113	6.153	6.153	0.000	66	315796	10.0	
53 1,1,1-Trichloroethane	97	6.153	6.159	-0.006	97	748589	13.5	
55 Carbon tetrachloride	117	6.360	6.372	-0.012	1	1696	0.0357	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.616	-0.006	65	56758	9.46	
60 Benzene	78		6.641				ND	
61 1,2-Dichloroethane	62		6.714				ND	
* 64 Fluorobenzene (IS)	96	7.061	7.061	0.000	99	1332393	10.0	
68 Trichloroethene	95	7.549	7.549	0.000	99	227299	5.98	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.238				ND	
81 cis-1,3-Dichloropropene	75		8.805				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012				ND	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1402657	9.05	
84 Toluene	92	9.232	9.225	0.007	97	3302	0.0307	
85 trans-1,3-Dichloropropene	75		9.524				ND	
107 1,1,2-Trichloroethane	97		9.738				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	9.823	9.823	0.000	96	10148760	208.9	E
110 2-Hexanone	43		9.981				ND	
112 Chlorodibromomethane	129		10.134				ND	
113 Ethylene Dibromide	107		10.237				ND	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	85	1117160	10.0	
116 Chlorobenzene	112		10.725				ND	
117 1,1,1,2-Tetrachloroethane	131		10.817				ND	
118 Ethylbenzene	91		10.823				ND	
120 m-Xylene & p-Xylene	106		10.945				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
121 o-Xylene	106		11.280				ND	
122 Styrene	104		11.298				ND	
123 Bromoform	173		11.451				ND	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	90	501970	9.37	
128 1,1,2,2-Tetrachloroethane	83		11.841				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	95	572417	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_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X24.D

Injection Date: 01-Apr-2025 07:28:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-A-8

Lab Sample ID: 410-214590-8

Worklist Smp#: 25

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

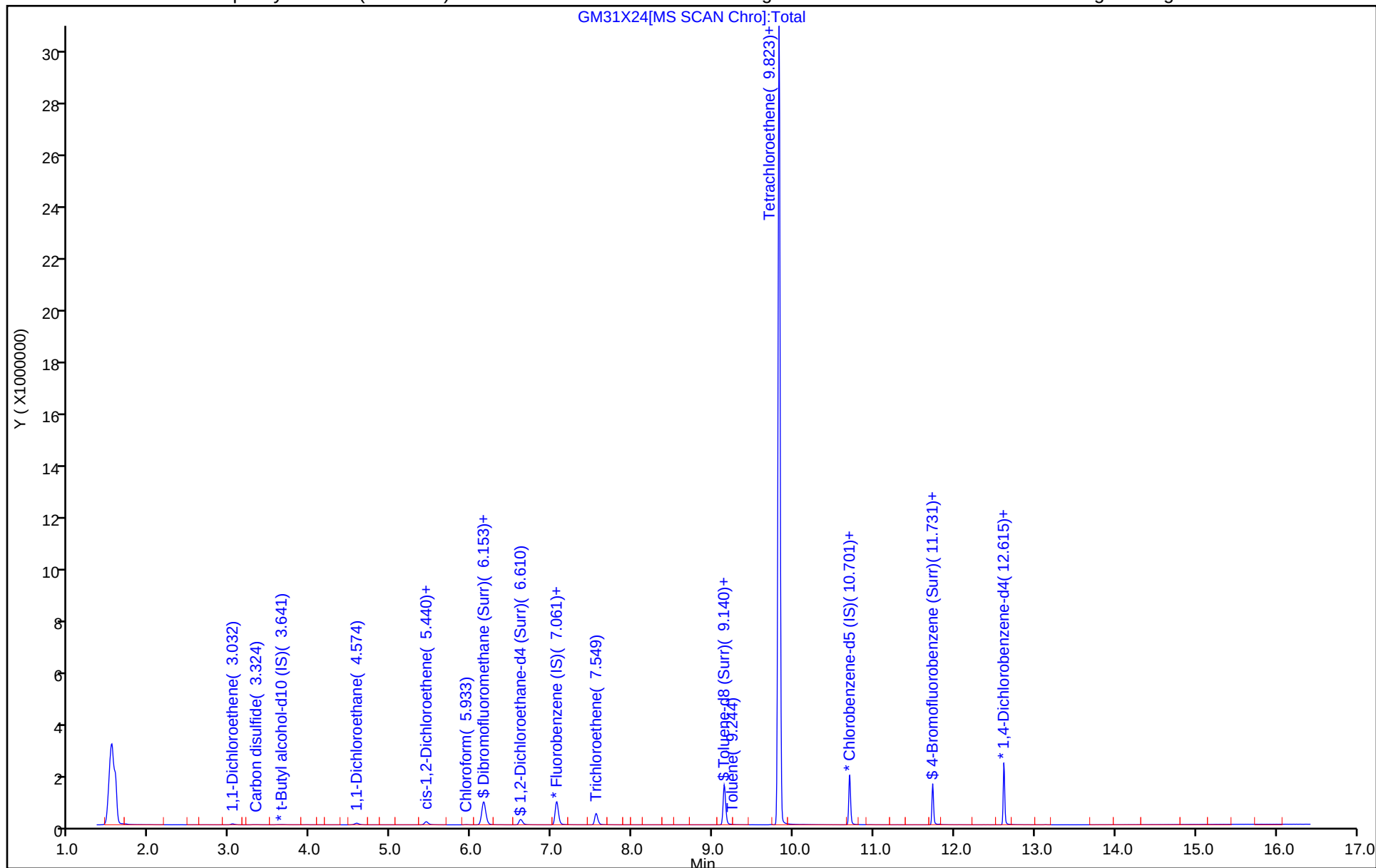
ALS Bottle#: 24

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X24.D
Lims ID: 410-214590-A-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 01-Apr-2025 07:28:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-025
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 02-Apr-2025 07:29:49 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:29:49

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.0	100.46
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.46	94.64
\$ 83 Toluene-d8 (Surr)	10.0	9.05	90.46
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.37	93.74

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X24.D

Injection Date: 01-Apr-2025 07:28:30

Instrument ID: 16334

Lims ID: 410-214590-A-8

Lab Sample ID: 410-214590-8

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

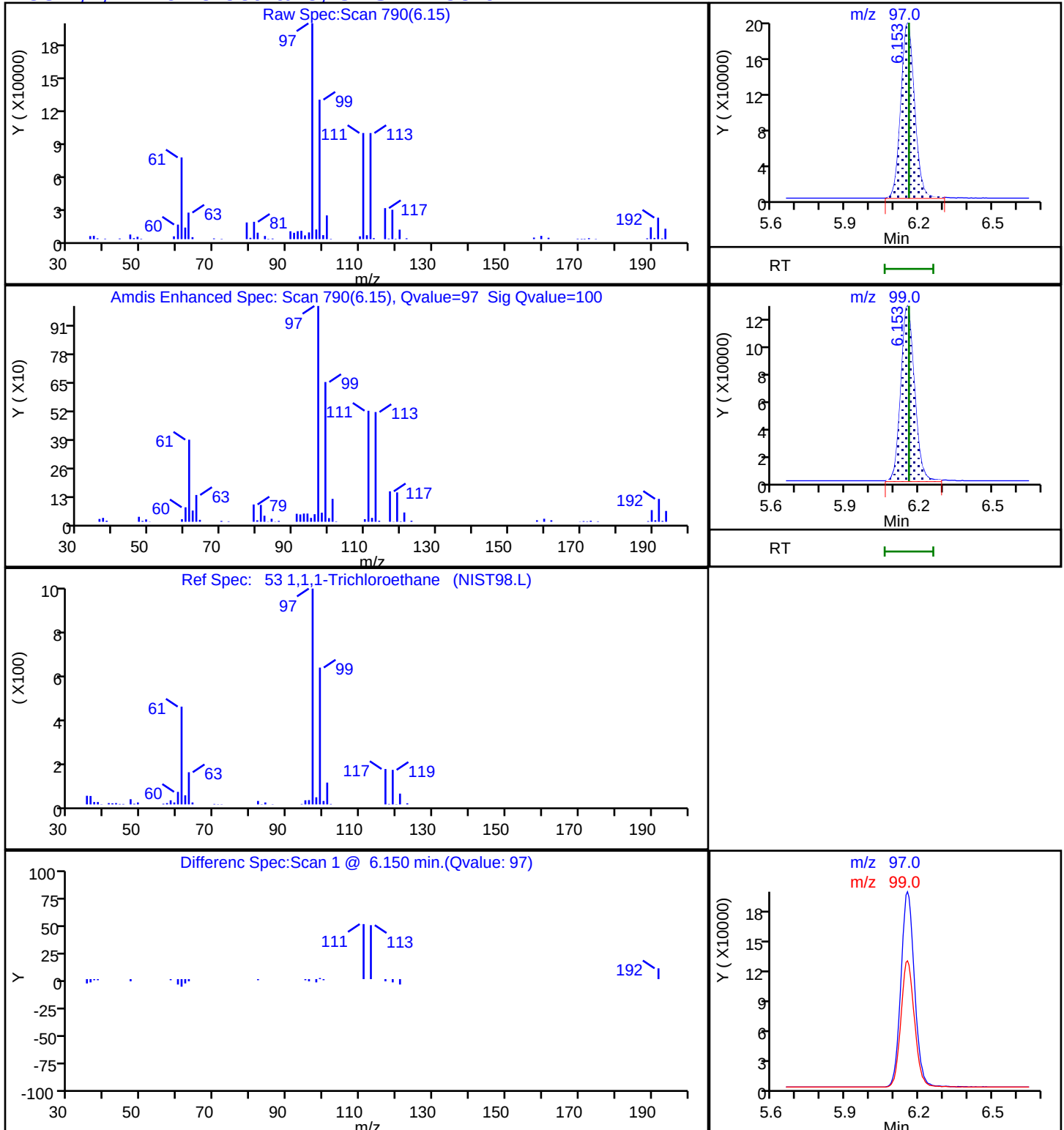
Dil. Factor: 1.0000

Method: MSV_16334_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\16334\20250331-142555.b\GM31X24.D

Injection Date: 01-Apr-2025 07:28:30

Instrument ID: 16334

Lims ID: 410-214590-A-8

Lab Sample ID: 410-214590-8

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

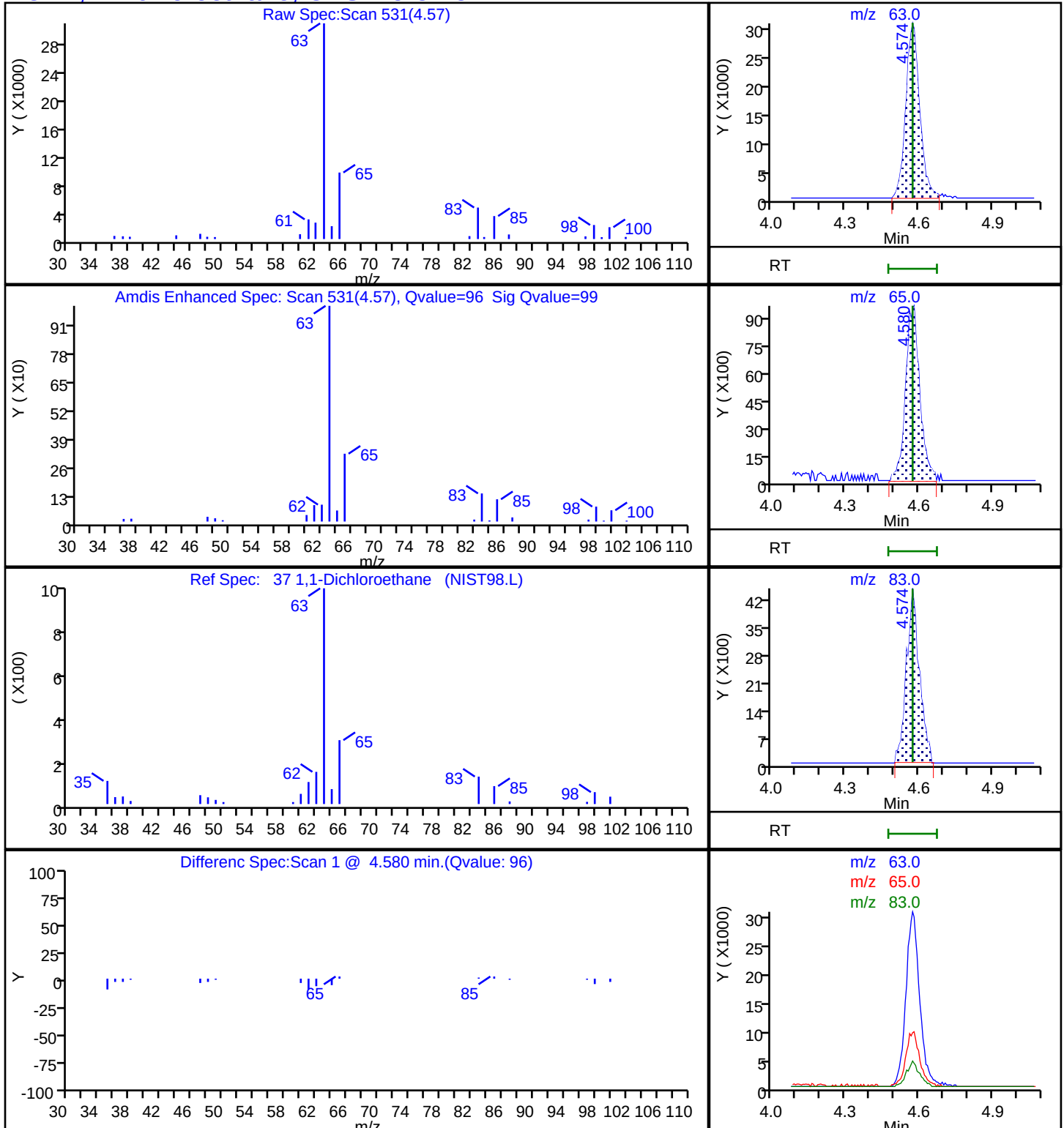
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X24.D

Injection Date: 01-Apr-2025 07:28:30

Instrument ID: 16334

Lims ID: 410-214590-A-8

Lab Sample ID: 410-214590-8

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

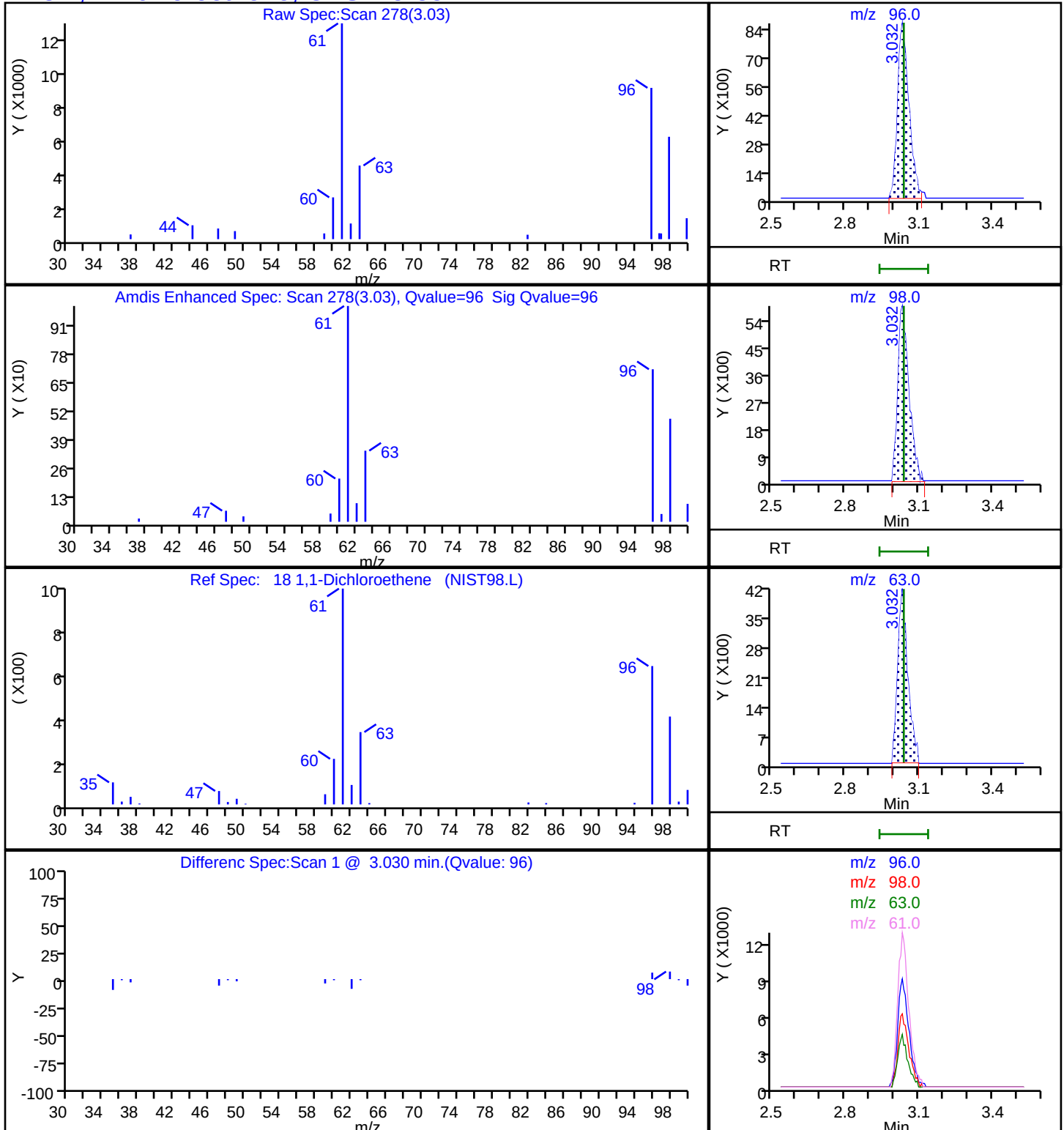
Dil. Factor: 1.0000

Method: MSV_16334_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\16334\20250331-142555.b\GM31X24.D

Injection Date: 01-Apr-2025 07:28:30

Instrument ID: 16334

Lims ID: 410-214590-A-8

Lab Sample ID: 410-214590-8

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

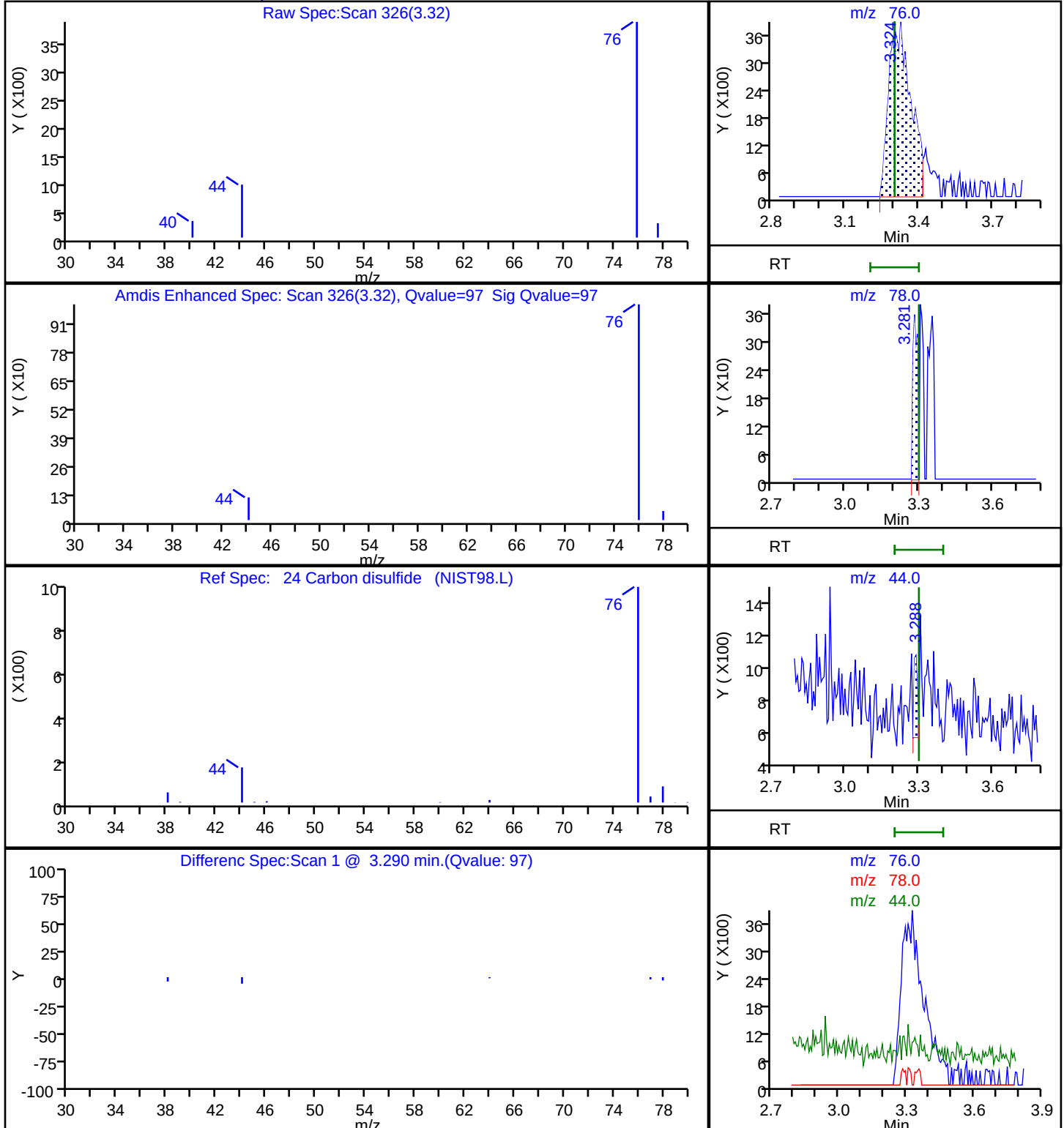
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

24 Carbon disulfide, CAS: 75-15-0

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X24.D

Injection Date: 01-Apr-2025 07:28:30

Instrument ID: 16334

Lims ID: 410-214590-A-8

Lab Sample ID: 410-214590-8

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

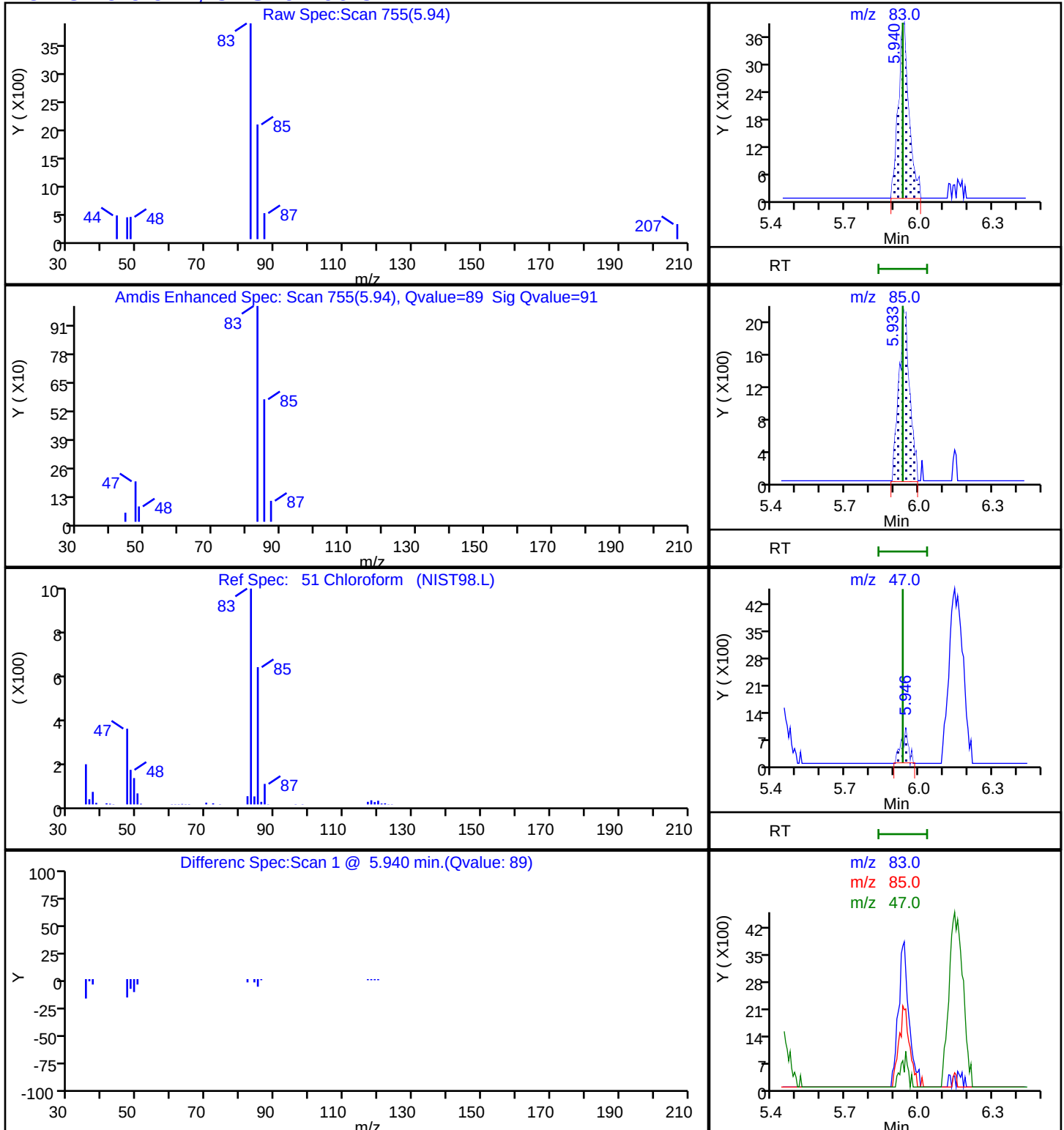
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

51 Chloroform, CAS: 67-66-3

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X24.D

Injection Date: 01-Apr-2025 07:28:30

Instrument ID: 16334

Lims ID: 410-214590-A-8

Lab Sample ID: 410-214590-8

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

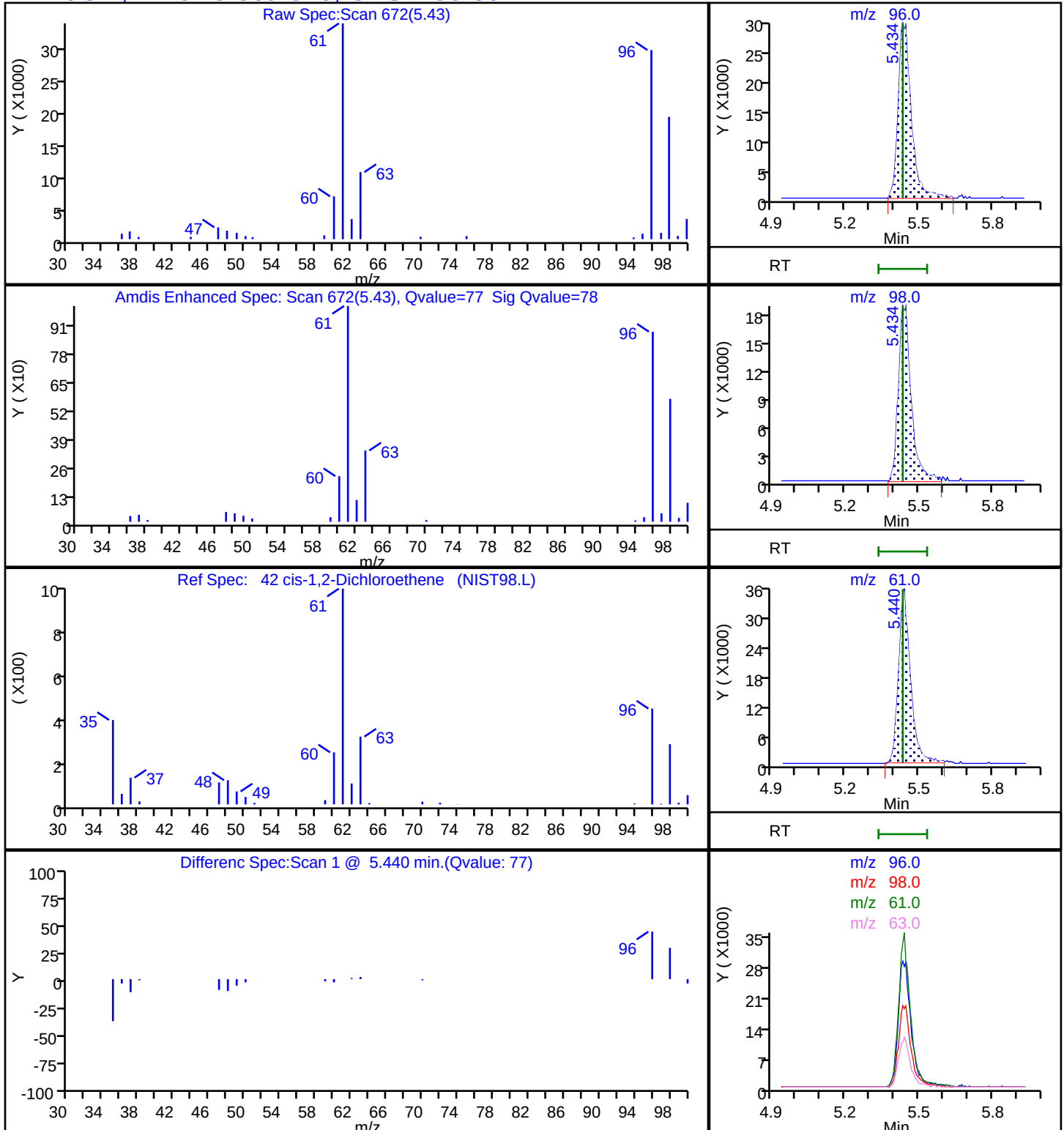
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X24.D

Injection Date: 01-Apr-2025 07:28:30

Instrument ID: 16334

Lims ID: 410-214590-A-8

Lab Sample ID: 410-214590-8

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

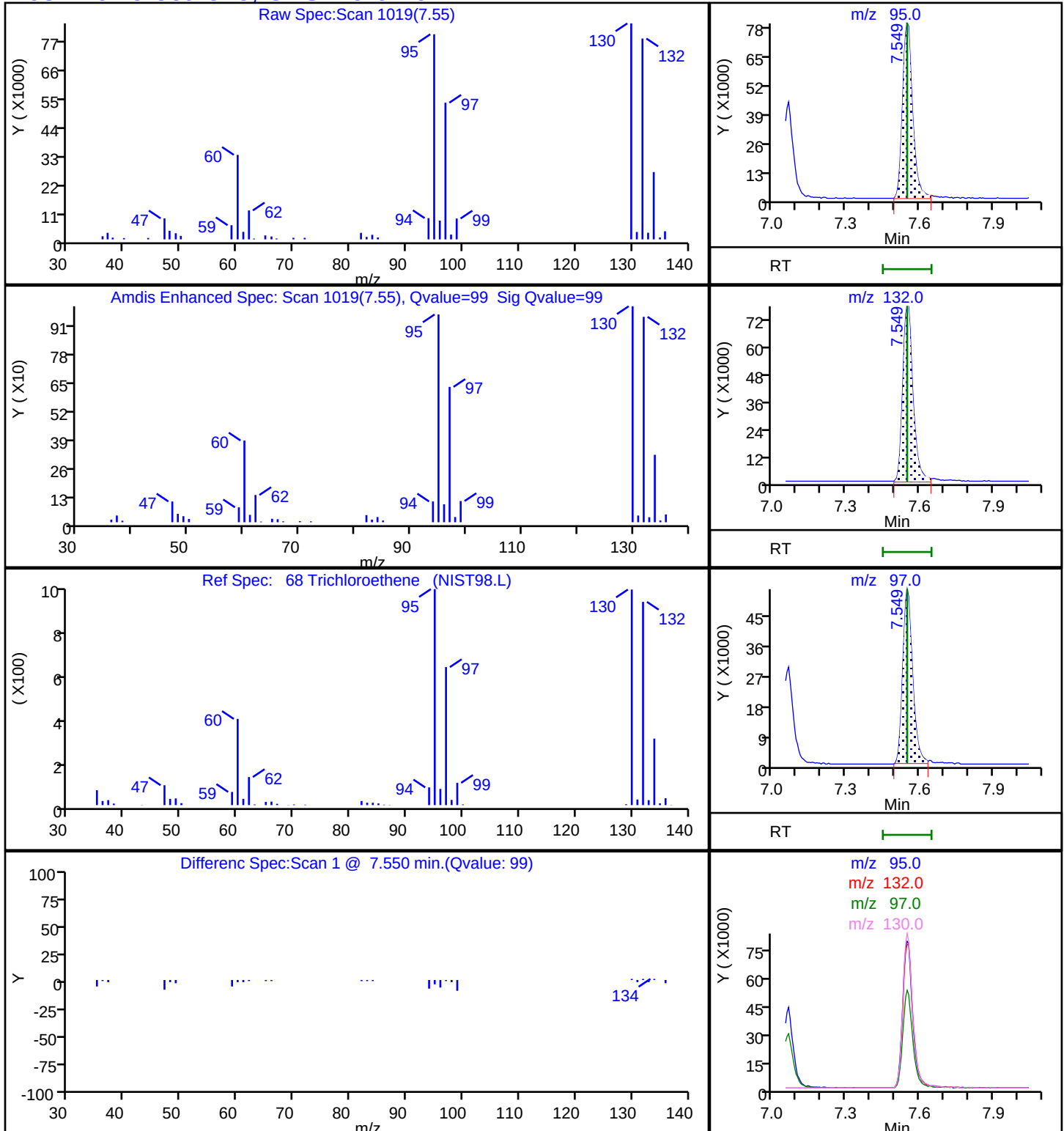
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

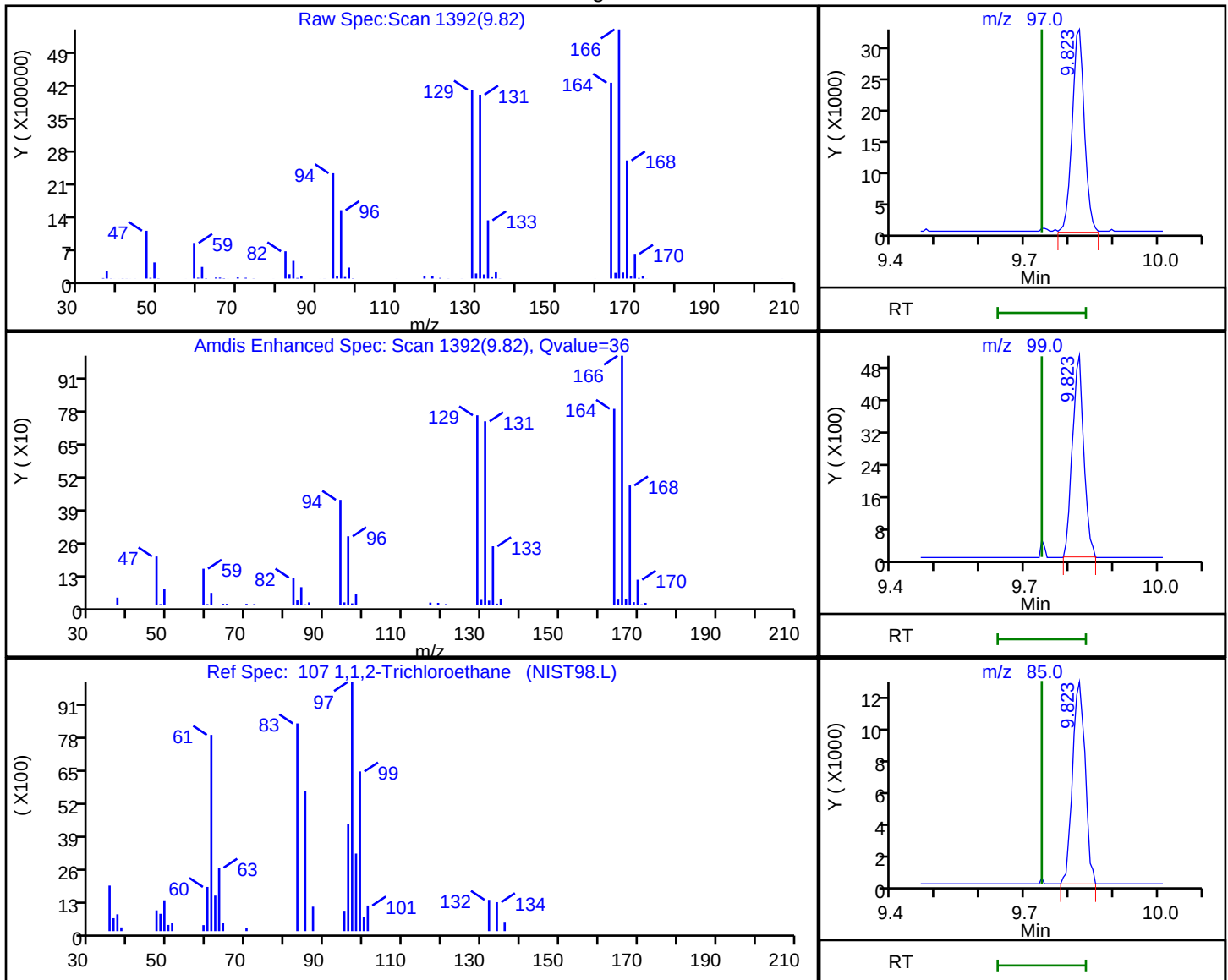
68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X24.D
Injection Date: 01-Apr-2025 07:28:30 Instrument ID: 16334
Lims ID: 410-214590-A-8 Lab Sample ID: 410-214590-8
Client ID: HD-COD-SW-17-0/1-0
Operator ID: gaw91131 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

107 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
9.82	97.00	62574	2.516622
9.82	99.00	9099	
9.82	85.00	25045	
9.82	83.00	183751	

Reviewer: FQ4L, 02-Apr-2025 07:29:41 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

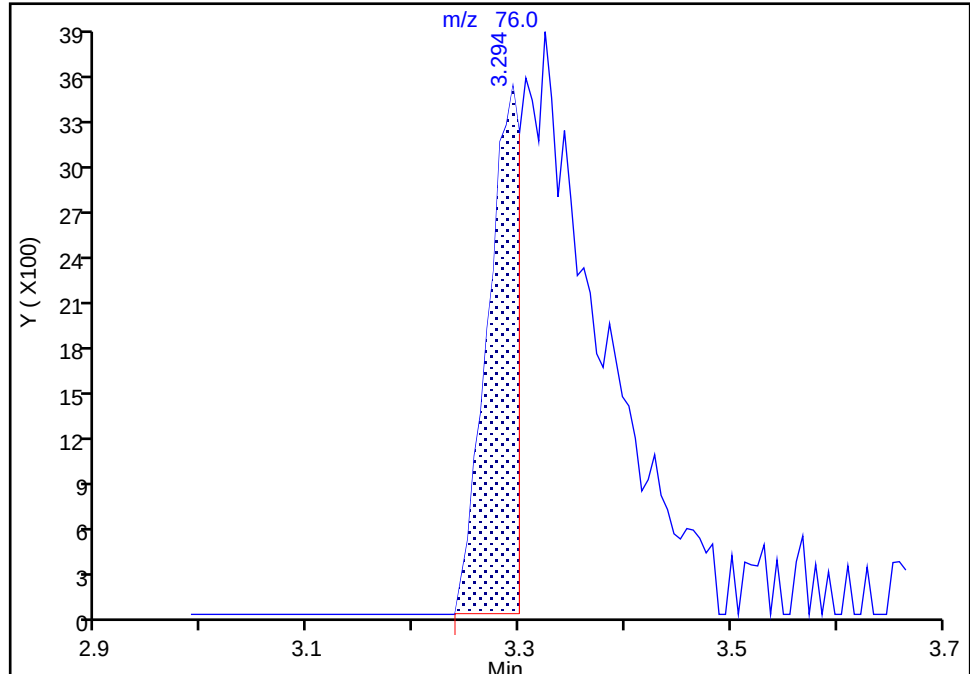
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X24.D
Injection Date: 01-Apr-2025 07:28:30 Instrument ID: 16334
Lims ID: 410-214590-A-8 Lab Sample ID: 410-214590-8
Client ID: HD-COD-SW-17-0/1-0
Operator ID: gaw91131 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

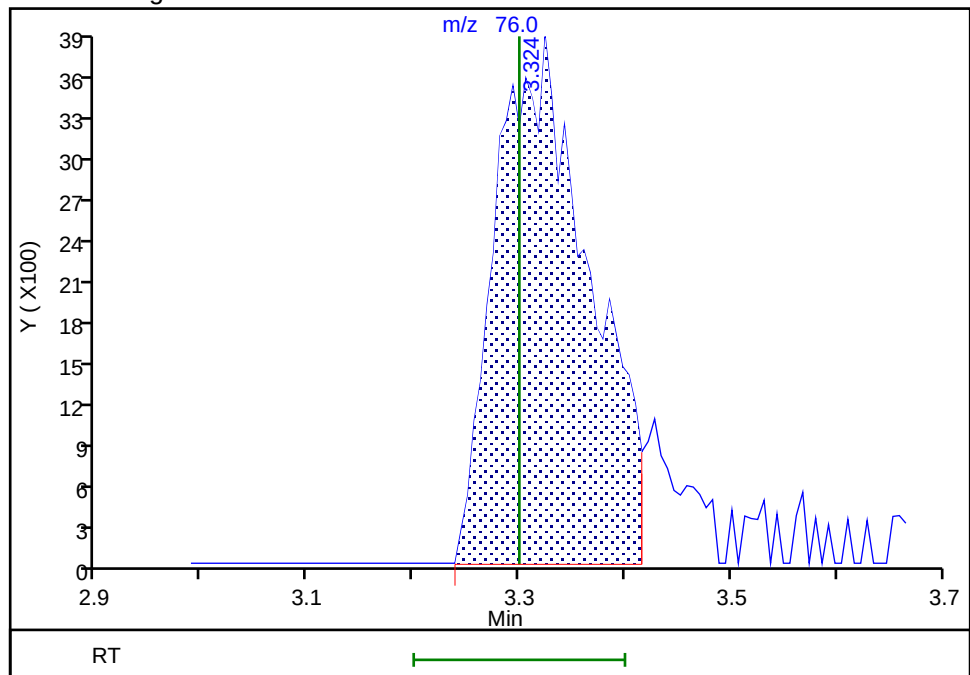
RT: 3.29
Area: 7340
Amount: 0.066629
Amount Units: ug/l

Processing Integration Results



RT: 3.32
Area: 23389
Amount: 0.212313
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 02-Apr-2025 07:29:11 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-8 DL

Matrix: Water

Lab File ID: GM31X25.D

Analysis Method: 8260D

Date Collected: 03/27/2025 09:22

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 07:50

Soil Aliquot Vol:

Dilution Factor: 20

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	150		10	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		80-120
2037-26-5	Toluene-d8 (Surr)	92		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X25.D
 Lims ID: 410-214590-B-8 DL
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 01-Apr-2025 07:50:30 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 25.000 mL Dil. Factor: 20.0000
 Sample Info: 410-0142555-026
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 02-Apr-2025 07:28:47 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:28:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.885				ND	
6 Vinyl chloride	62		1.983				ND	
9 Bromomethane	94		2.276				ND	
10 Chloroethane	64		2.318				ND	7
18 1,1-Dichloroethene	96		3.038				ND	7
19 Acetone	43		3.068				ND	
24 Carbon disulfide	76	3.306	3.300	0.006	99	30709	0.2449	M
29 Methylene Chloride	84		3.592				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.623	3.617	0.006	21	47003	50.0	
33 Methyl tert-butyl ether	73		3.946				ND	
34 trans-1,2-Dichloroethene	96		3.946				ND	
37 1,1-Dichloroethane	63	4.586	4.574	0.012	1	5200	0.0714	a
41 2-Butanone (MEK)	43		5.421				ND	
42 cis-1,2-Dichloroethene	96	5.458	5.433	0.025	78	4531	0.1030	
49 Chlorobromomethane	128		5.775				ND	
51 Chloroform	83		5.933				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.153	6.153	0.000	93	387282	10.8	
53 1,1,1-Trichloroethane	97	6.159	6.159	0.000	40	35369	0.5592	
55 Carbon tetrachloride	117		6.372				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.616	-0.006	65	68233	10.0	
60 Benzene	78		6.641				ND	
61 1,2-Dichloroethane	62		6.714				ND	
* 64 Fluorobenzene (IS)	96	7.061	7.061	0.000	99	1516524	10.0	
68 Trichloroethene	95	7.555	7.549	0.006	96	9424	0.2178	Ma
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.238				ND	
81 cis-1,3-Dichloropropene	75		8.805				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012				ND	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1518945	9.20	
84 Toluene	92		9.225				ND	
85 trans-1,3-Dichloropropene	75		9.524				ND	
107 1,1,2-Trichloroethane	97		9.738				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	9.823	9.823	0.000	97	390847	7.56	
110 2-Hexanone	43		9.981				ND	
112 Chlorodibromomethane	129		10.134				ND	
113 Ethylene Dibromide	107		10.237				ND	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	85	1189108	10.0	
116 Chlorobenzene	112		10.725				ND	
117 1,1,1,2-Tetrachloroethane	131		10.817				ND	
118 Ethylbenzene	91		10.823				ND	
120 m-Xylene & p-Xylene	106		10.945				ND	
S 119 Xylenes, Total	106		11.245				ND	7
121 o-Xylene	106		11.280				ND	
122 Styrene	104		11.298				ND	
123 Bromoform	173		11.451				ND	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	89	541025	9.49	
128 1,1,2,2-Tetrachloroethane	83		11.841				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	95	633135	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X25.D

Injection Date: 01-Apr-2025 07:50:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-B-8 DL

Lab Sample ID: 410-214590-8

Worklist Smp#: 26

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

Purge Vol: 25.000 mL

Dil. Factor: 20.0000

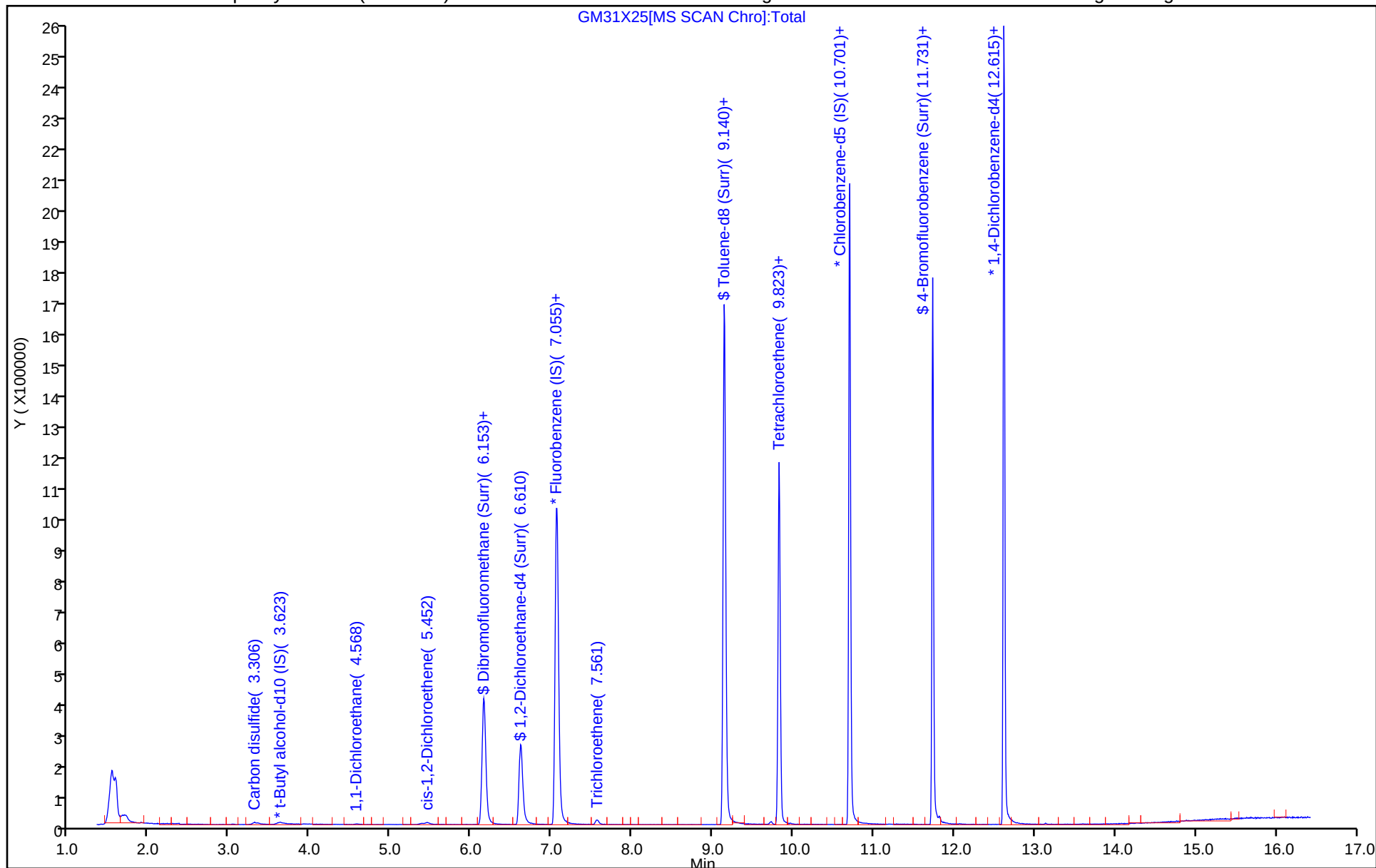
ALS Bottle#: 25

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X25.D
Lims ID: 410-214590-B-8 DL
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 01-Apr-2025 07:50:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 25.000 mL Dil. Factor: 20.0000
Sample Info: 410-0142555-026
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 02-Apr-2025 07:28:47 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:28:47

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.8	108.24
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.0	99.96
\$ 83 Toluene-d8 (Surr)	10.0	9.20	92.03
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.49	94.92

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X25.D

Injection Date: 01-Apr-2025 07:50:30

Instrument ID: 16334

Lims ID: 410-214590-B-8 DL

Lab Sample ID: 410-214590-8

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

Operator ID: gaw91131

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 25.000 mL

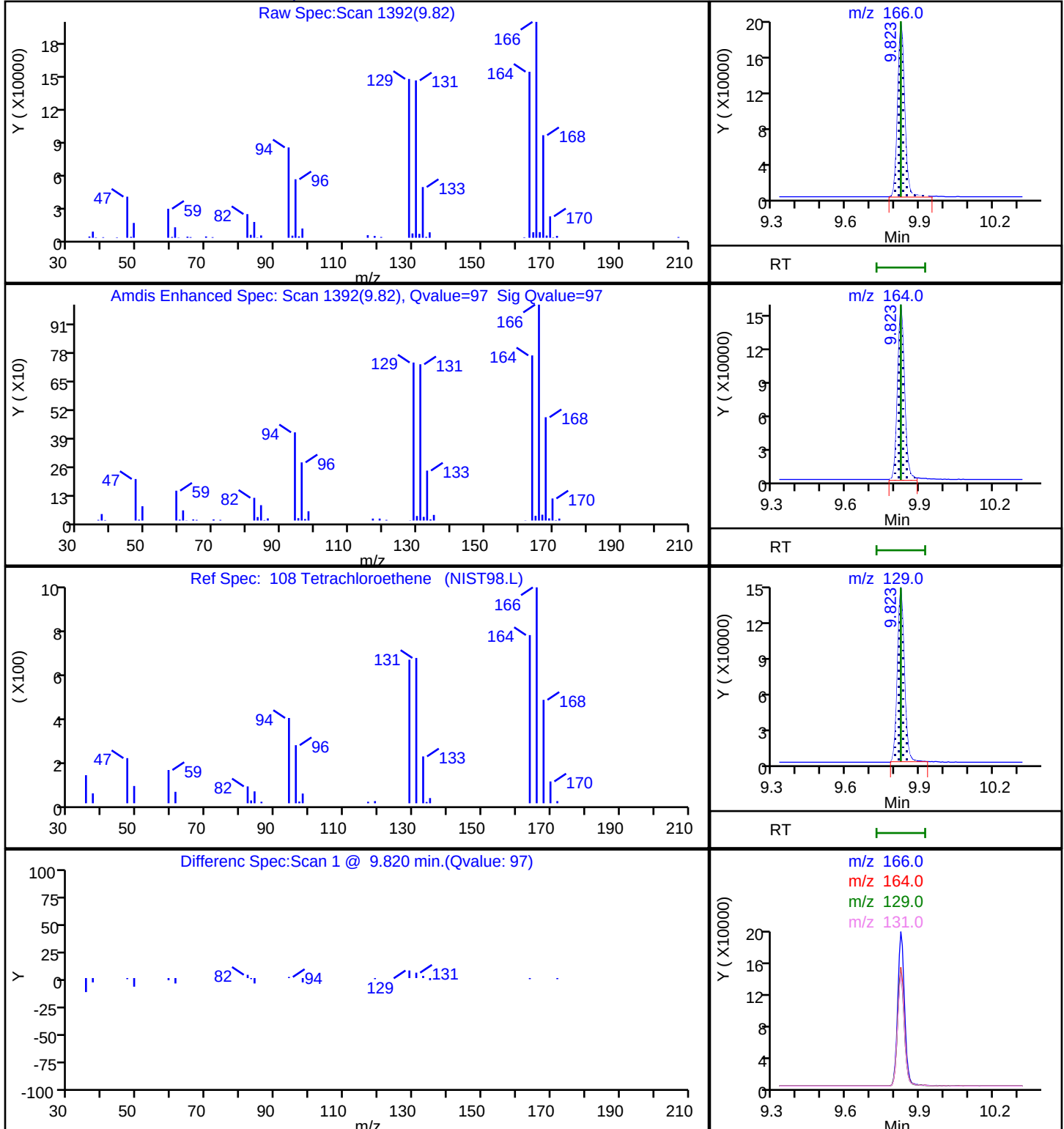
Dil. Factor: 20.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

108 Tetrachloroethene, CAS: 127-18-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-9

Matrix: Water

Lab File ID: GM31X20.D

Analysis Method: 8260D

Date Collected: 03/27/2025 11:00

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 06:00

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

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	^c cn	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	0.25	J cn	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	2.9		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-214590-9

Matrix: Water Lab File ID: GM31X20.D

Analysis Method: 8260D Date Collected: 03/27/2025 11:00

Sample wt/vol: 25 (mL) Date Analyzed: 04/01/2025 06:00

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.: 624273 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 16334

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)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
2037-26-5	Toluene-d8 (Surr)	92		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X20.D
 Lims ID: 410-214590-A-9
 Client ID: HD-COD-SW-26-0/1-0
 Sample Type: Client
 Inject. Date: 01-Apr-2025 06:00:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-021
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 02-Apr-2025 07:53:55 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:53:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.885				ND	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.276				ND	
10 Chloroethane	64		2.318				ND	7
18 1,1-Dichloroethene	96	3.044	3.038	0.006	91	2995	0.0884	
19 Acetone	43		3.068				ND	
24 Carbon disulfide	76	3.294	3.300	-0.006	97	30822	0.2480	M
29 Methylene Chloride	84		3.592				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.611	3.617	-0.006	21	57857	50.0	
33 Methyl tert-butyl ether	73		3.946				ND	
34 trans-1,2-Dichloroethene	96		3.946				ND	
37 1,1-Dichloroethane	63		4.574				ND	U
41 2-Butanone (MEK)	43		5.421				ND	
42 cis-1,2-Dichloroethene	96		5.433				ND	
49 Chlorobromomethane	128		5.775				ND	
51 Chloroform	83	5.934	5.933	0.001	92	43560	0.6152	
\$ 52 Dibromofluoromethane (Surr)	113	6.153	6.153	0.000	93	376553	10.6	
53 1,1,1-Trichloroethane	97		6.159				ND	
55 Carbon tetrachloride	117		6.372				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.616	-0.006	65	65756	9.72	
60 Benzene	78		6.641				ND	
61 1,2-Dichloroethane	62		6.714				ND	
* 64 Fluorobenzene (IS)	96	7.061	7.061	0.000	99	1502951	10.0	
68 Trichloroethene	95	7.561	7.549	0.012	95	7007	0.1634	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.238				ND	7
81 cis-1,3-Dichloropropene	75		8.805				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012				ND	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1492907	9.19	
84 Toluene	92	9.226	9.225	0.001	94	3264	0.0289	
85 trans-1,3-Dichloropropene	75		9.524				ND	
107 1,1,2-Trichloroethane	97		9.738				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	9.823	9.823	0.000	96	147080	2.89	
110 2-Hexanone	43		9.981				ND	
112 Chlorodibromomethane	129		10.134				ND	
113 Ethylene Dibromide	107		10.237				ND	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	85	1170113	10.0	
116 Chlorobenzene	112		10.725				ND	
117 1,1,1,2-Tetrachloroethane	131		10.817				ND	
118 Ethylbenzene	91		10.823				ND	
120 m-Xylene & p-Xylene	106		10.945				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
121 o-Xylene	106		11.280				ND	
122 Styrene	104		11.298				ND	
123 Bromoform	173		11.451				ND	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	89	537983	9.59	
128 1,1,2,2-Tetrachloroethane	83		11.841				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	95	616610	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Report Date: 02-Apr-2025 07:53:56

Chrom Revision: 2.3 21-Mar-2025 14:03:38

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X20.D

Injection Date: 01-Apr-2025 06:00:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-A-9

Lab Sample ID: 410-214590-9

Worklist Smp#: 21

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

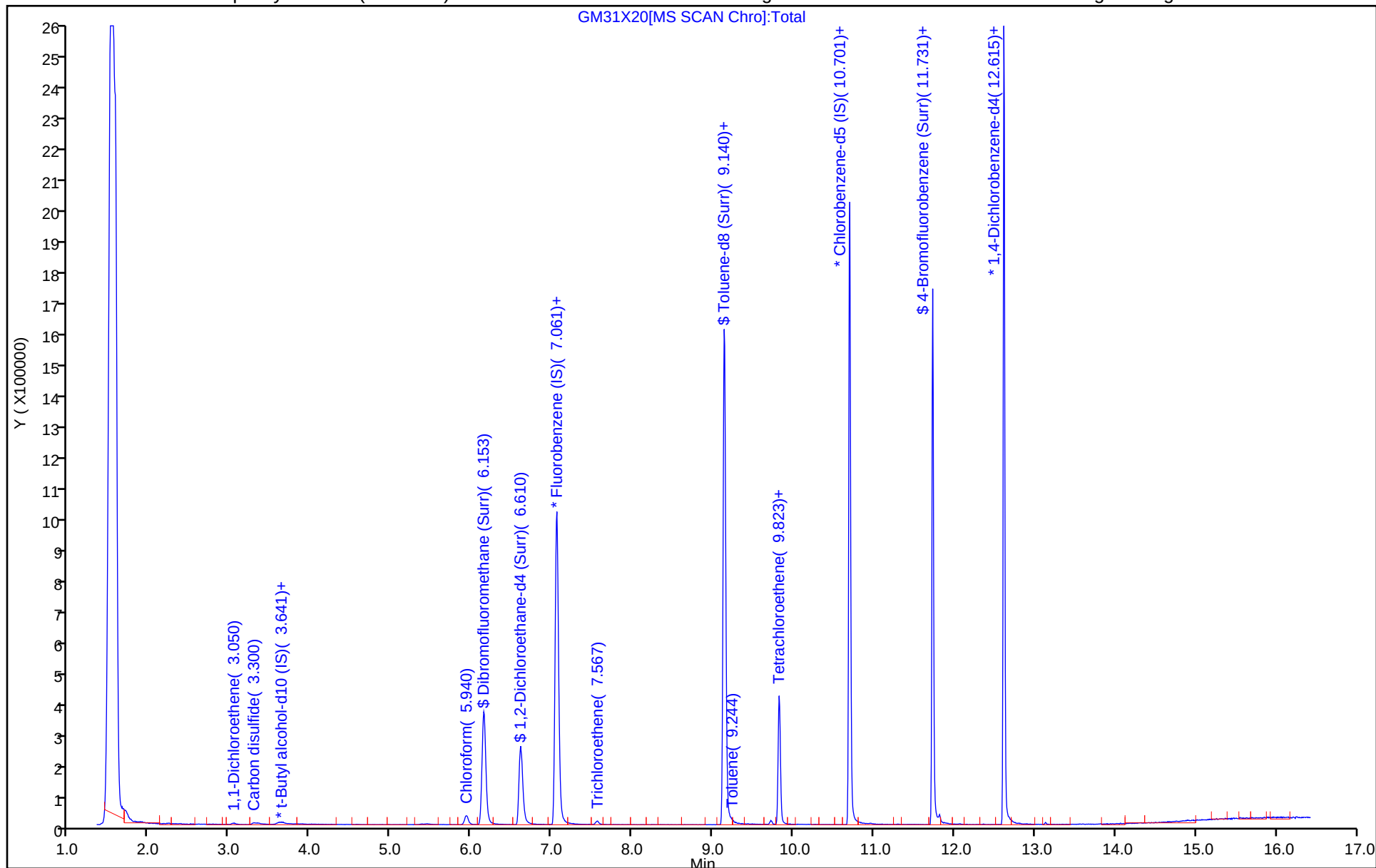
ALS Bottle#: 20

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X20.D
Lims ID: 410-214590-A-9
Client ID: HD-COD-SW-26-0/1-0
Sample Type: Client
Inject. Date: 01-Apr-2025 06:00:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-021
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 02-Apr-2025 07:53:55 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:53:55

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.6	106.19
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.72	97.20
\$ 83 Toluene-d8 (Surr)	10.0	9.19	91.92
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.59	95.92

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X20.D

Injection Date: 01-Apr-2025 06:00:30

Instrument ID: 16334

Lims ID: 410-214590-A-9

Lab Sample ID: 410-214590-9

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

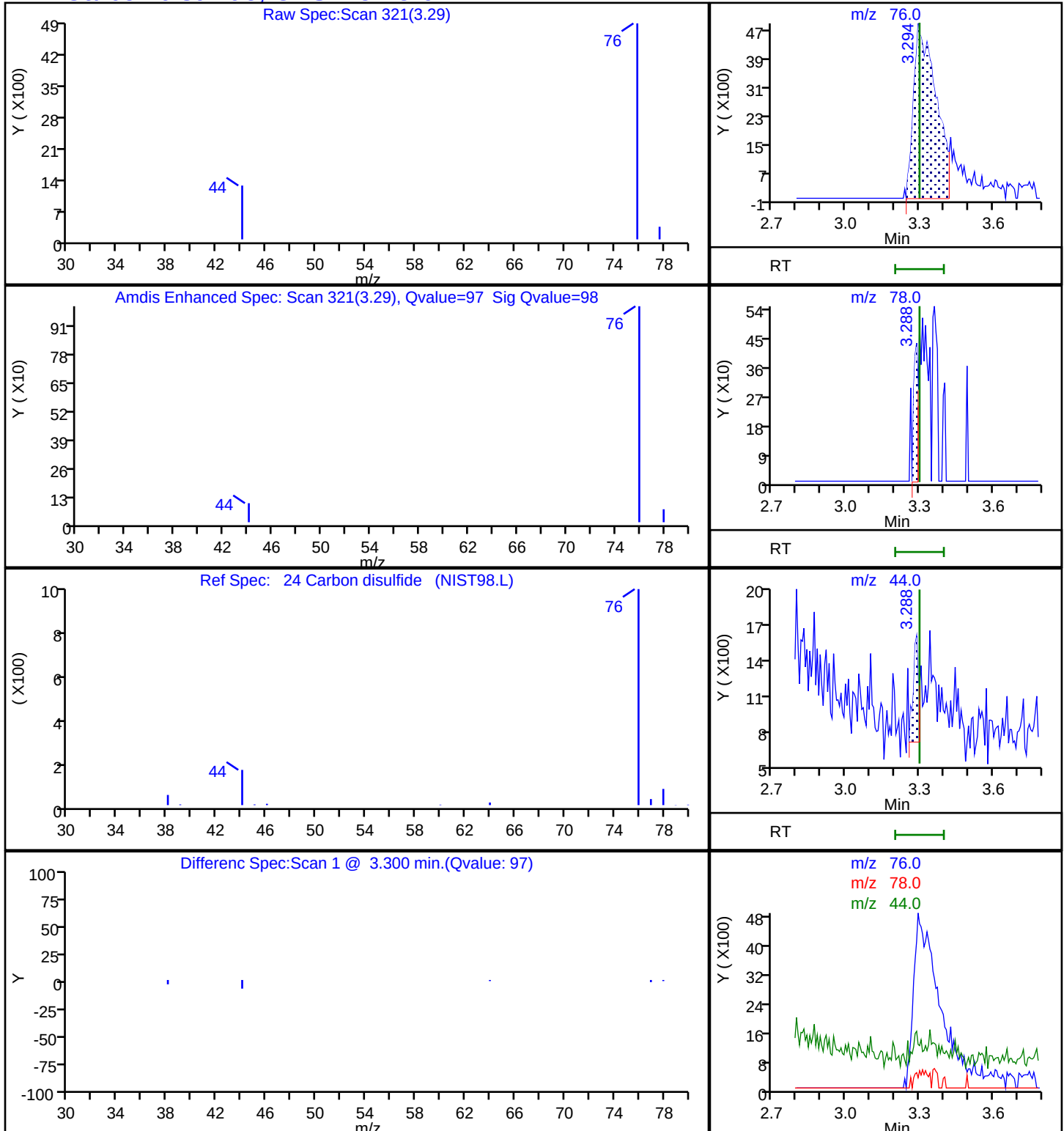
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

24 Carbon disulfide, CAS: 75-15-0

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X20.D

Injection Date: 01-Apr-2025 06:00:30

Instrument ID: 16334

Lims ID: 410-214590-A-9

Lab Sample ID: 410-214590-9

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

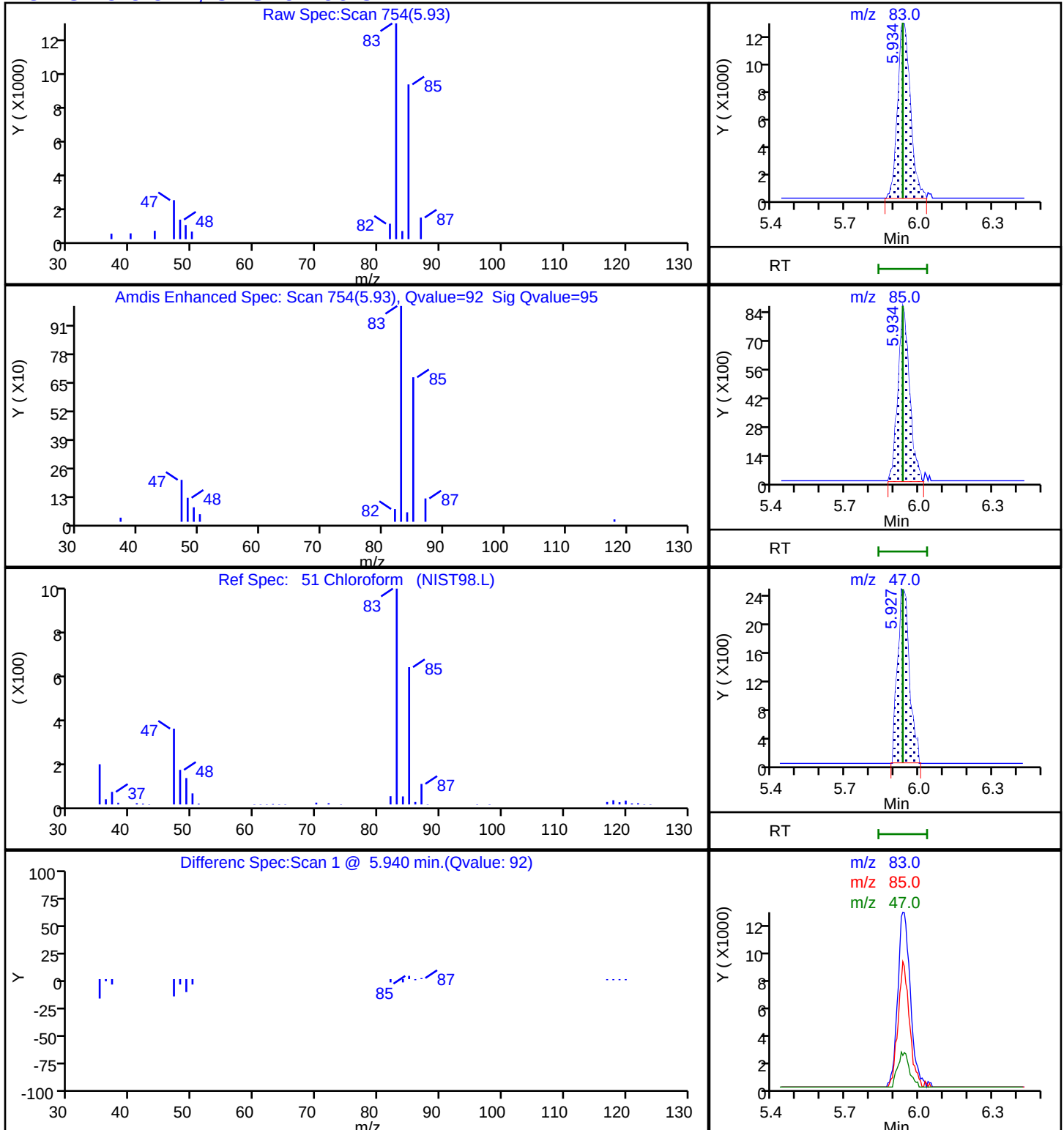
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

51 Chloroform, CAS: 67-66-3

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X20.D

Injection Date: 01-Apr-2025 06:00:30

Instrument ID: 16334

Lims ID: 410-214590-A-9

Lab Sample ID: 410-214590-9

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

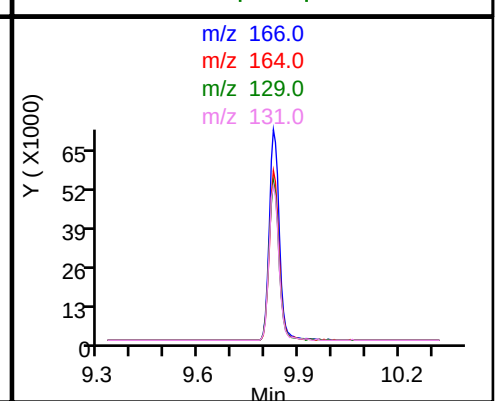
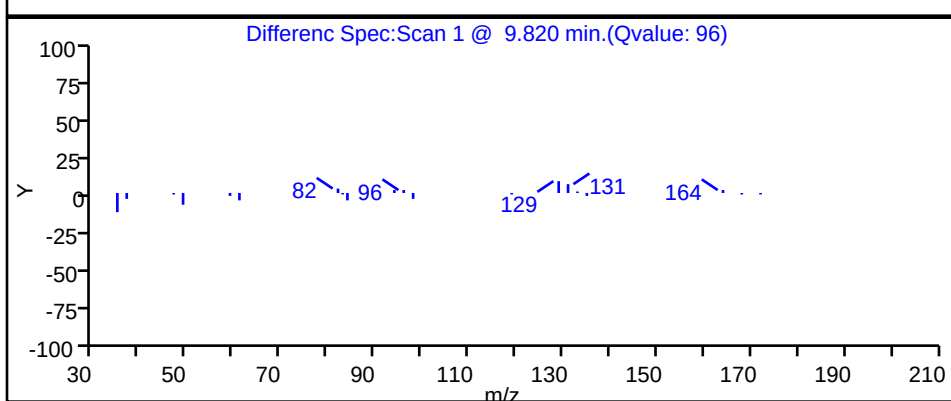
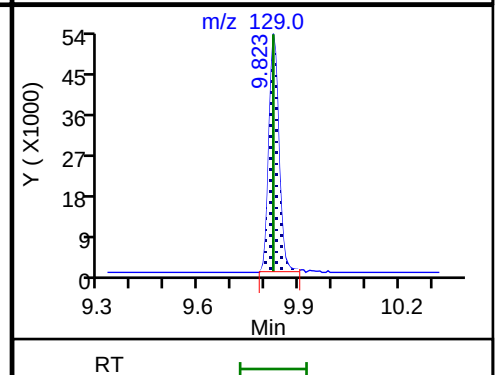
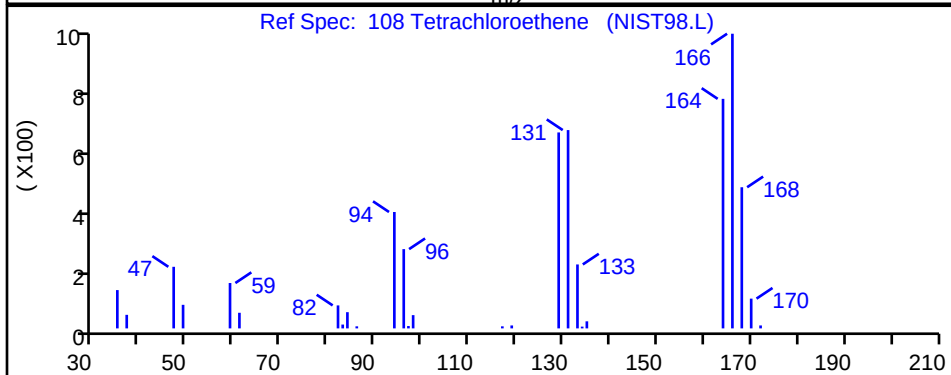
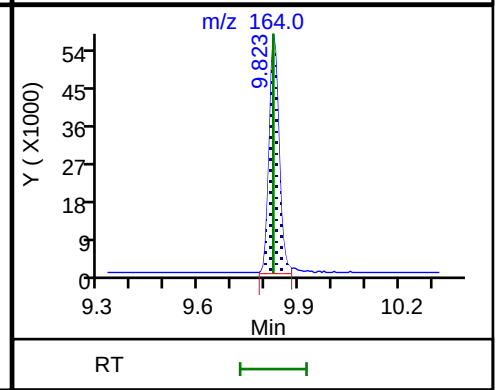
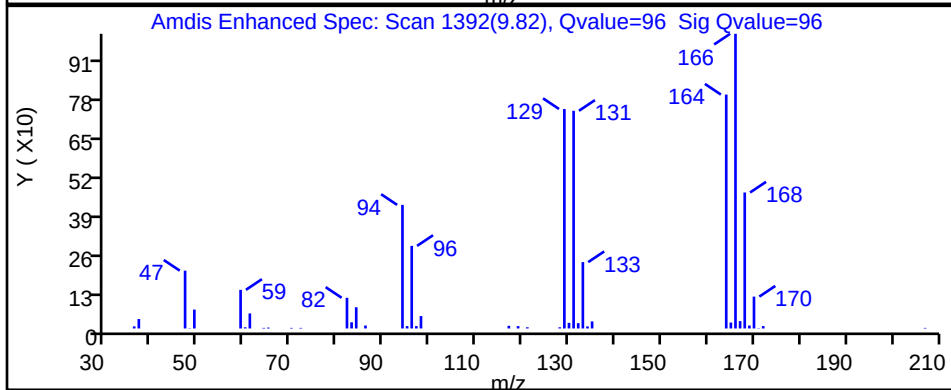
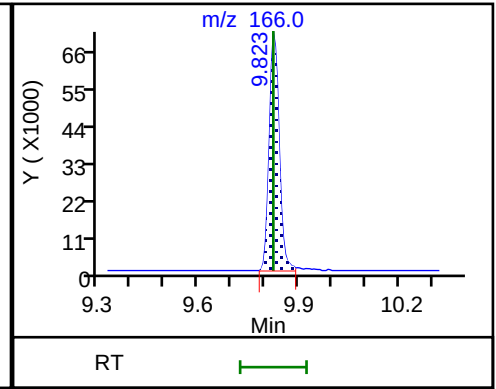
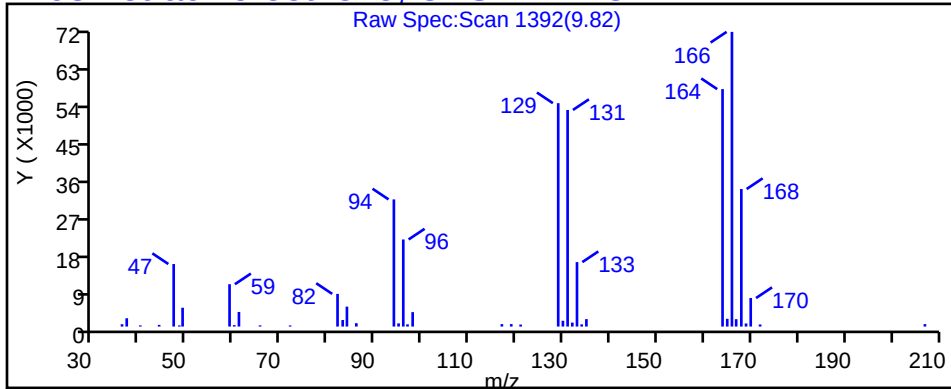
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

108 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X20.D

Injection Date: 01-Apr-2025 06:00:30

Instrument ID: 16334

Lims ID: 410-214590-A-9

Lab Sample ID: 410-214590-9

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

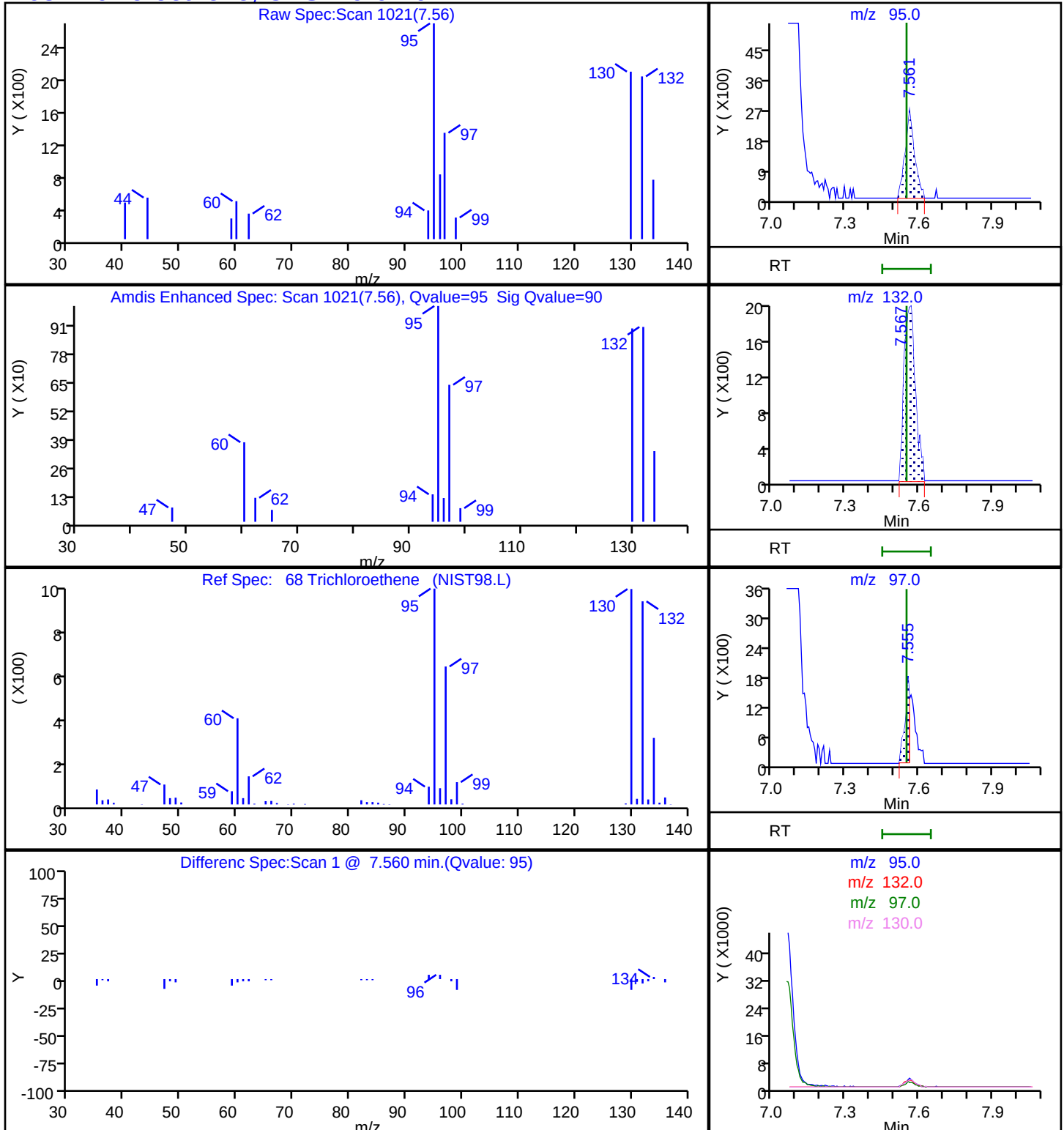
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

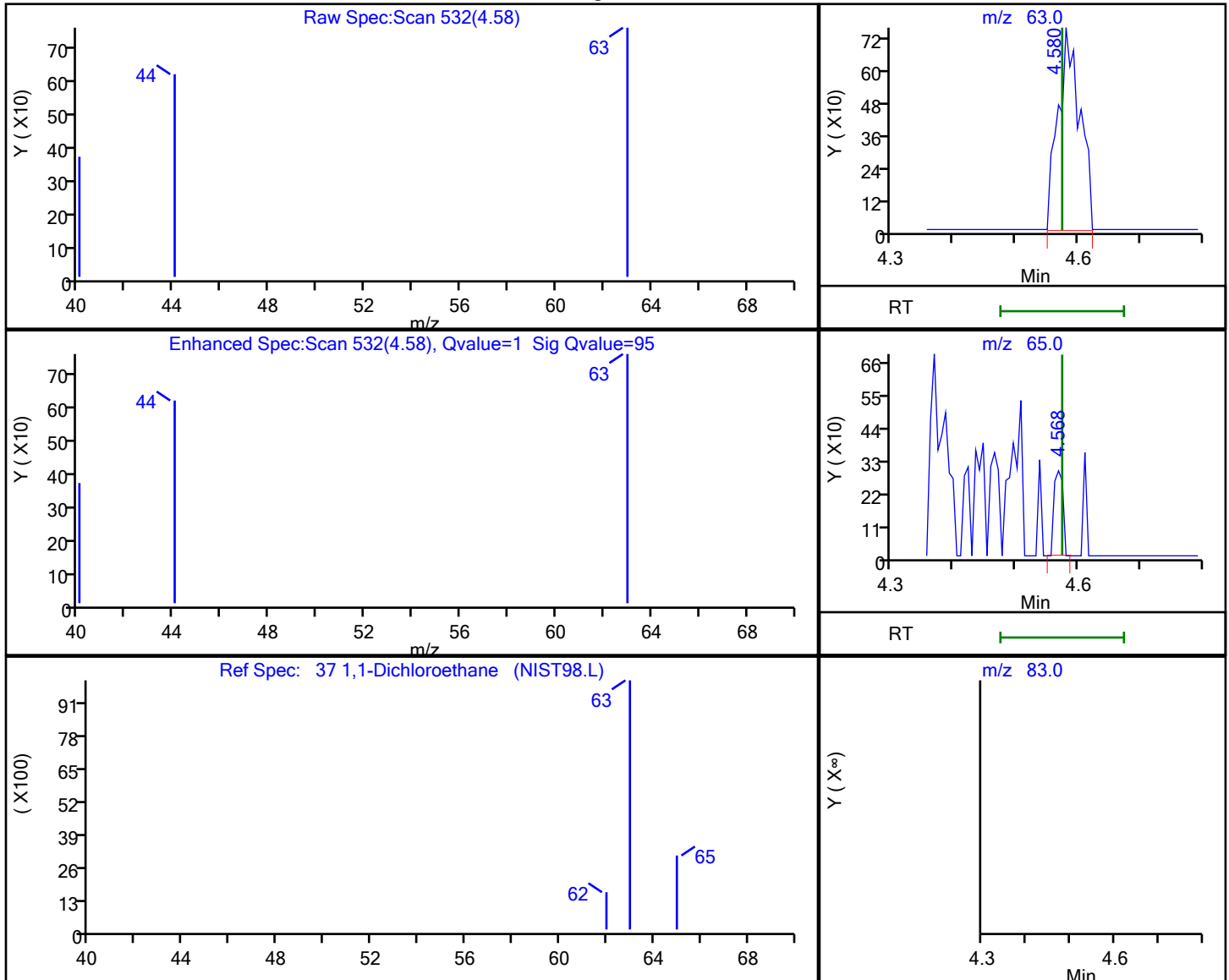
68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X20.D
Injection Date: 01-Apr-2025 06:00:30 Instrument ID: 16334
Lims ID: 410-214590-A-9 Lab Sample ID: 410-214590-9
Client ID: HD-COD-SW-26-0/1-0
Operator ID: gaw91131 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

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

Processing Results



RT	Mass	Response	Amount
4.58	63.00	1846	0.025577
4.57	65.00	289	
4.57	83.00	0	

Reviewer: FQ4L, 02-Apr-2025 07:53:40 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

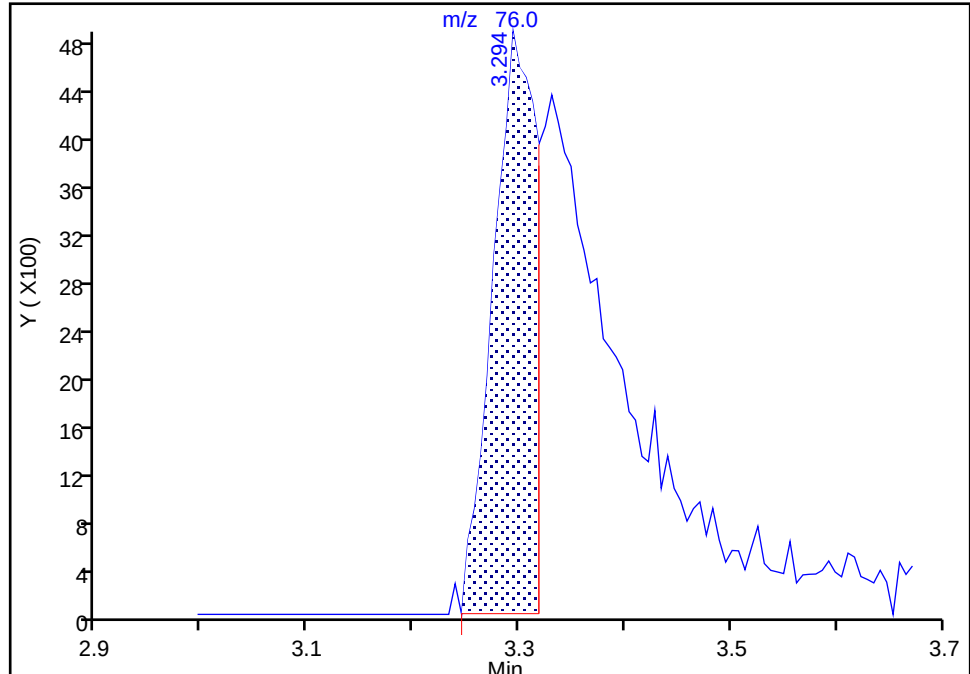
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X20.D
Injection Date: 01-Apr-2025 06:00:30 Instrument ID: 16334
Lims ID: 410-214590-A-9 Lab Sample ID: 410-214590-9
Client ID: HD-COD-SW-26-0/1-0
Operator ID: gaw91131 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

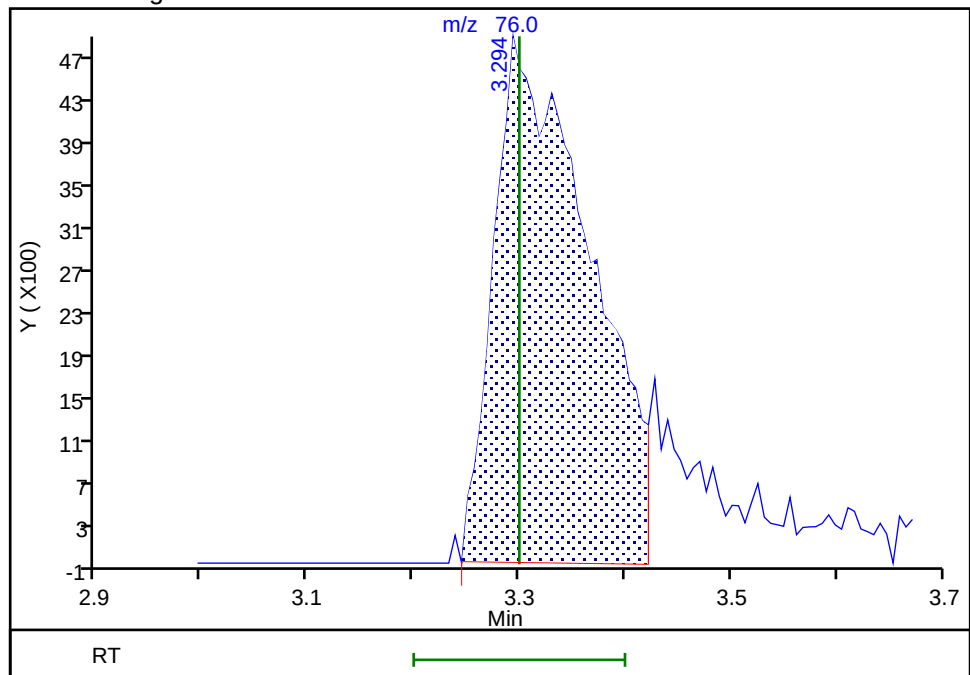
RT: 3.29
Area: 13760
Amount: 0.110731
Amount Units: ug/l

Processing Integration Results



RT: 3.29
Area: 30822
Amount: 0.248035
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 02-Apr-2025 07:53:31 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.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-10

Matrix: Water

Lab File ID: GM31X21.D

Analysis Method: 8260D

Date Collected: 03/27/2025 11:30

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 06:22

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

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	^c cn	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	0.42	J cn	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	0.16	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.097	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.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-214590-10

Matrix: Water Lab File ID: GM31X21.D

Analysis Method: 8260D Date Collected: 03/27/2025 11:30

Sample wt/vol: 25 (mL) Date Analyzed: 04/01/2025 06:22

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.: 624273 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 16334

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)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		80-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X21.D
 Lims ID: 410-214590-A-10
 Client ID: HD-COD-SW-27-0/1-0
 Sample Type: Client
 Inject. Date: 01-Apr-2025 06:22:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-022
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 02-Apr-2025 07:35:46 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:35:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.879	1.885	-0.006	95	2812	0.0478	a
6 Vinyl chloride	62		1.983				ND	
9 Bromomethane	94		2.276				ND	
10 Chloroethane	64		2.318				ND	7
18 1,1-Dichloroethene	96		3.038				ND	
19 Acetone	43		3.068				ND	U
24 Carbon disulfide	76	3.312	3.300	0.012	99	53092	0.4189	M
29 Methylene Chloride	84		3.592				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.666	3.617	0.049	25	56885	50.0	
33 Methyl tert-butyl ether	73		3.946				ND	
34 trans-1,2-Dichloroethene	96		3.946				ND	
37 1,1-Dichloroethane	63		4.574				ND	
41 2-Butanone (MEK)	43		5.421				ND	
42 cis-1,2-Dichloroethene	96	5.446	5.433	0.013	85	4297	0.0967	
49 Chlorobromomethane	128		5.775				ND	
51 Chloroform	83	5.933	5.933	0.000	91	11662	0.1615	
\$ 52 Dibromofluoromethane (Surr)	113	6.153	6.153	0.000	93	393854	10.9	
53 1,1,1-Trichloroethane	97		6.159				ND	
55 Carbon tetrachloride	117		6.372				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.616	0.000	65	68544	9.93	
60 Benzene	78		6.641				ND	
61 1,2-Dichloroethane	62		6.714				ND	
* 64 Fluorobenzene (IS)	96	7.061	7.061	0.000	99	1532763	10.0	
68 Trichloroethene	95	7.555	7.549	0.006	94	6924	0.1584	Ma
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.238				ND	7
81 cis-1,3-Dichloropropene	75		8.805				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012				ND	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1571666	9.36	
84 Toluene	92	9.225	9.225	0.000	13	4075	0.0350	
85 trans-1,3-Dichloropropene	75		9.524				ND	
107 1,1,2-Trichloroethane	97		9.738				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	9.835	9.823	0.012	93	6115	0.1162	
110 2-Hexanone	43		9.981				ND	
112 Chlorodibromomethane	129		10.134				ND	
113 Ethylene Dibromide	107		10.237				ND	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	85	1209685	10.0	
116 Chlorobenzene	112		10.725				ND	
117 1,1,1,2-Tetrachloroethane	131		10.817				ND	
118 Ethylbenzene	91		10.823				ND	
120 m-Xylene & p-Xylene	106		10.945				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
121 o-Xylene	106		11.280				ND	
122 Styrene	104		11.298				ND	
123 Bromoform	173		11.451				ND	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	90	535567	9.24	
128 1,1,2,2-Tetrachloroethane	83		11.841				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	95	641488	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X21.D

Injection Date: 01-Apr-2025 06:22:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-A-10

Lab Sample ID: 410-214590-10

Worklist Smp#: 22

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

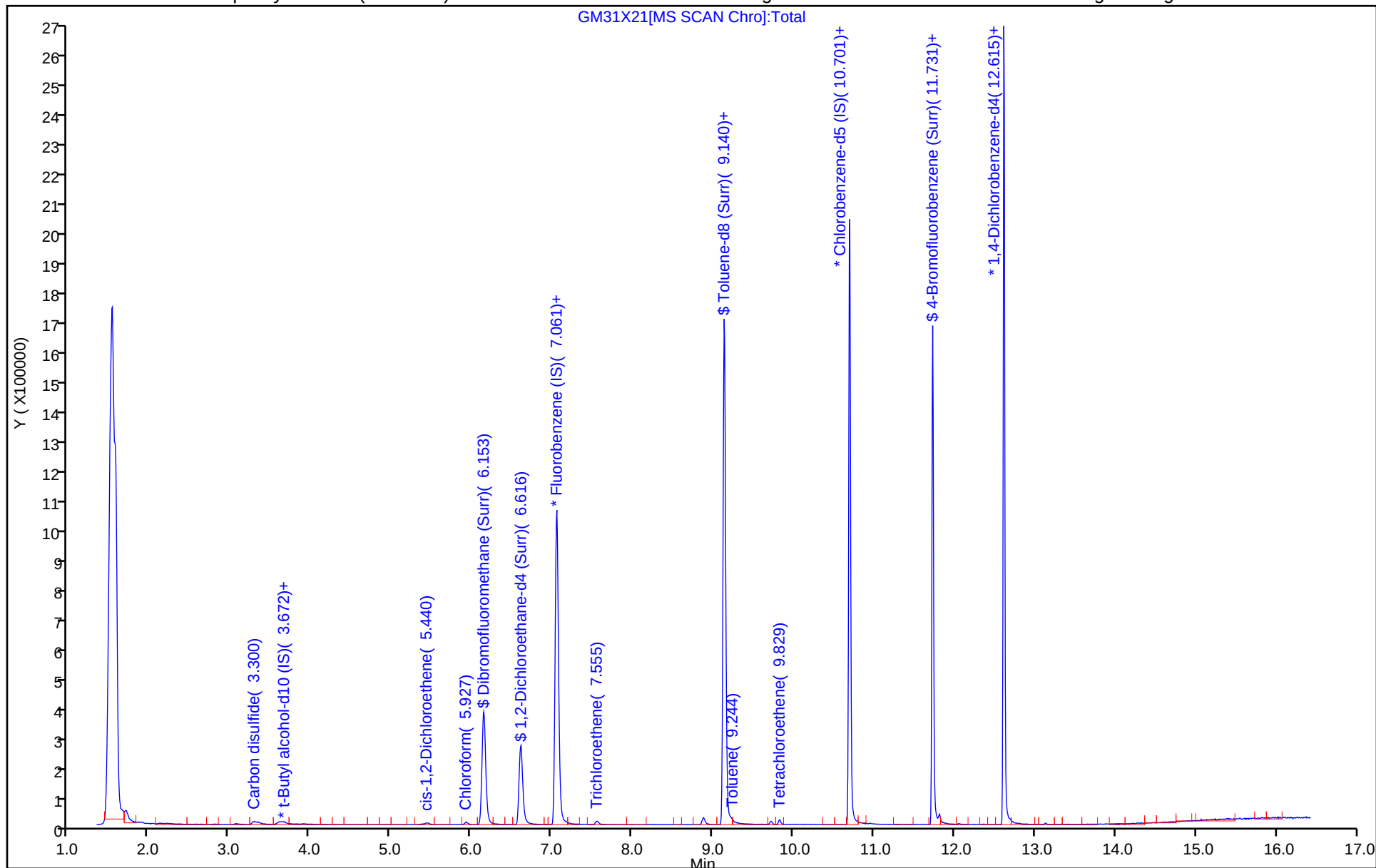
ALS Bottle#: 21

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X21.D
Lims ID: 410-214590-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 01-Apr-2025 06:22:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-022
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 02-Apr-2025 07:35:46 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:35:46

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.9	108.91
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.93	99.35
\$ 83 Toluene-d8 (Surr)	10.0	9.36	93.60
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.24	92.36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X21.D

Injection Date: 01-Apr-2025 06:22:30

Instrument ID: 16334

Lims ID: 410-214590-A-10

Lab Sample ID: 410-214590-10

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

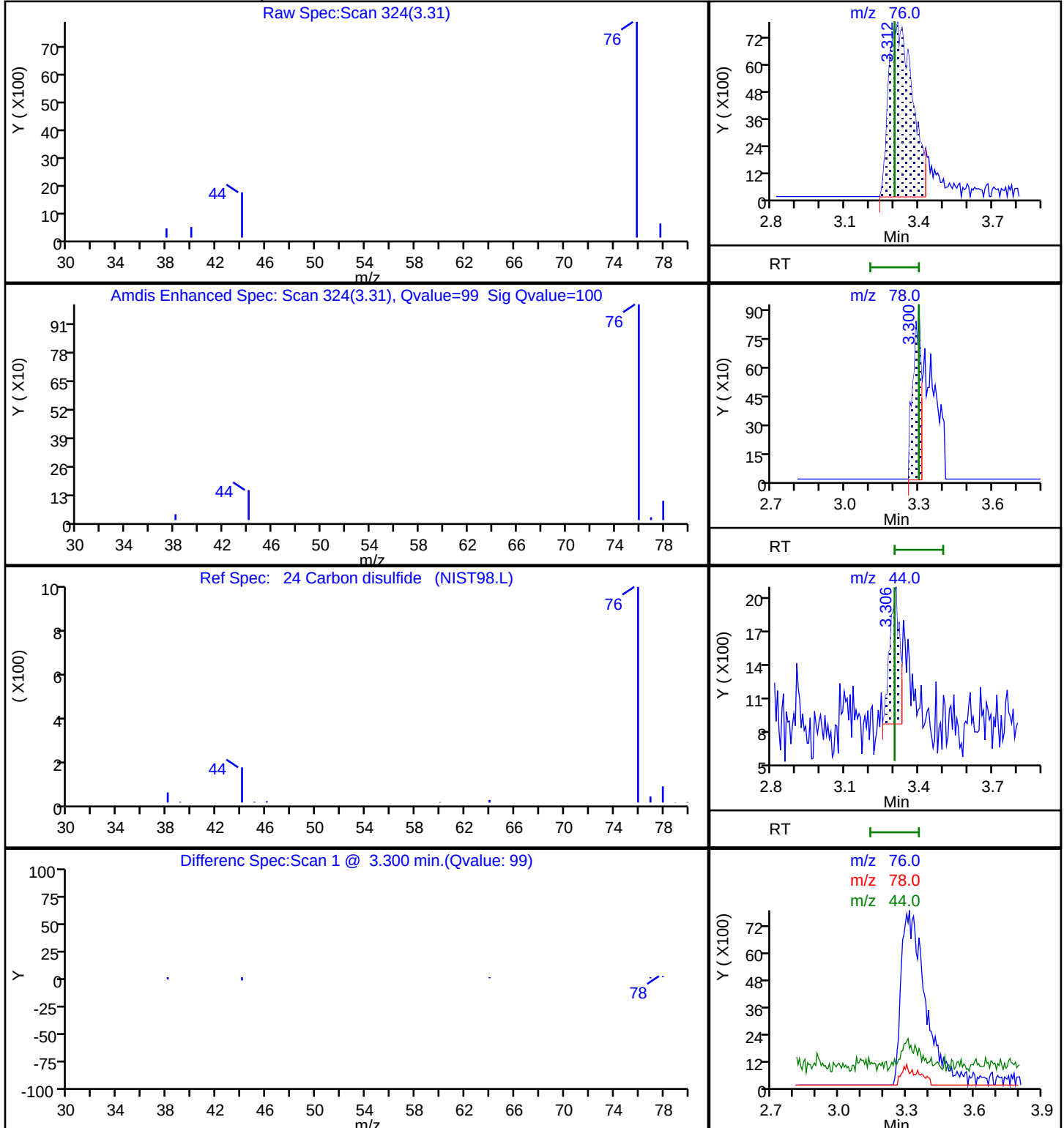
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

24 Carbon disulfide, CAS: 75-15-0

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X21.D

Injection Date: 01-Apr-2025 06:22:30

Instrument ID: 16334

Lims ID: 410-214590-A-10

Lab Sample ID: 410-214590-10

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

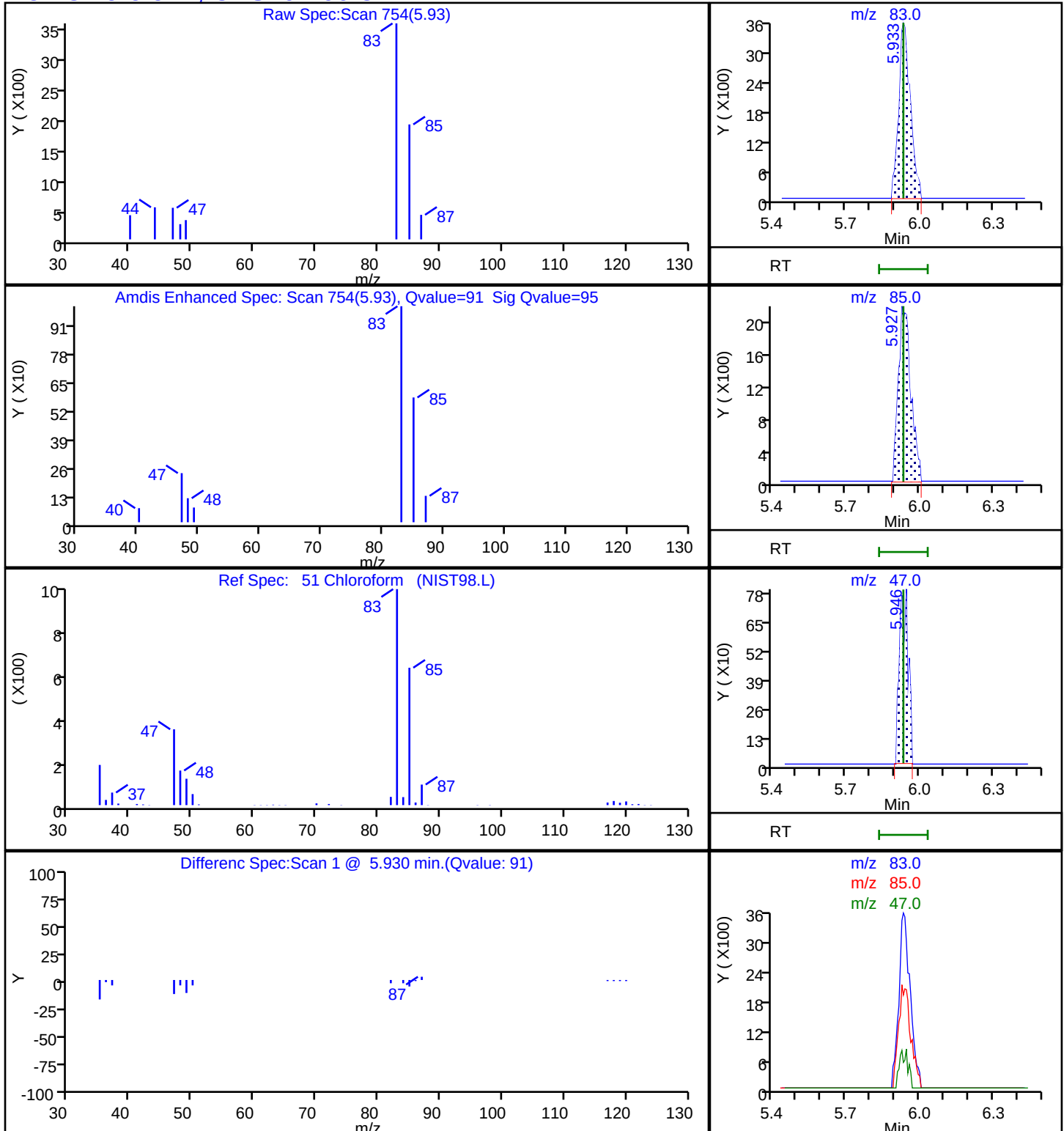
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

51 Chloroform, CAS: 67-66-3

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X21.D

Injection Date: 01-Apr-2025 06:22:30

Instrument ID: 16334

Lims ID: 410-214590-A-10

Lab Sample ID: 410-214590-10

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

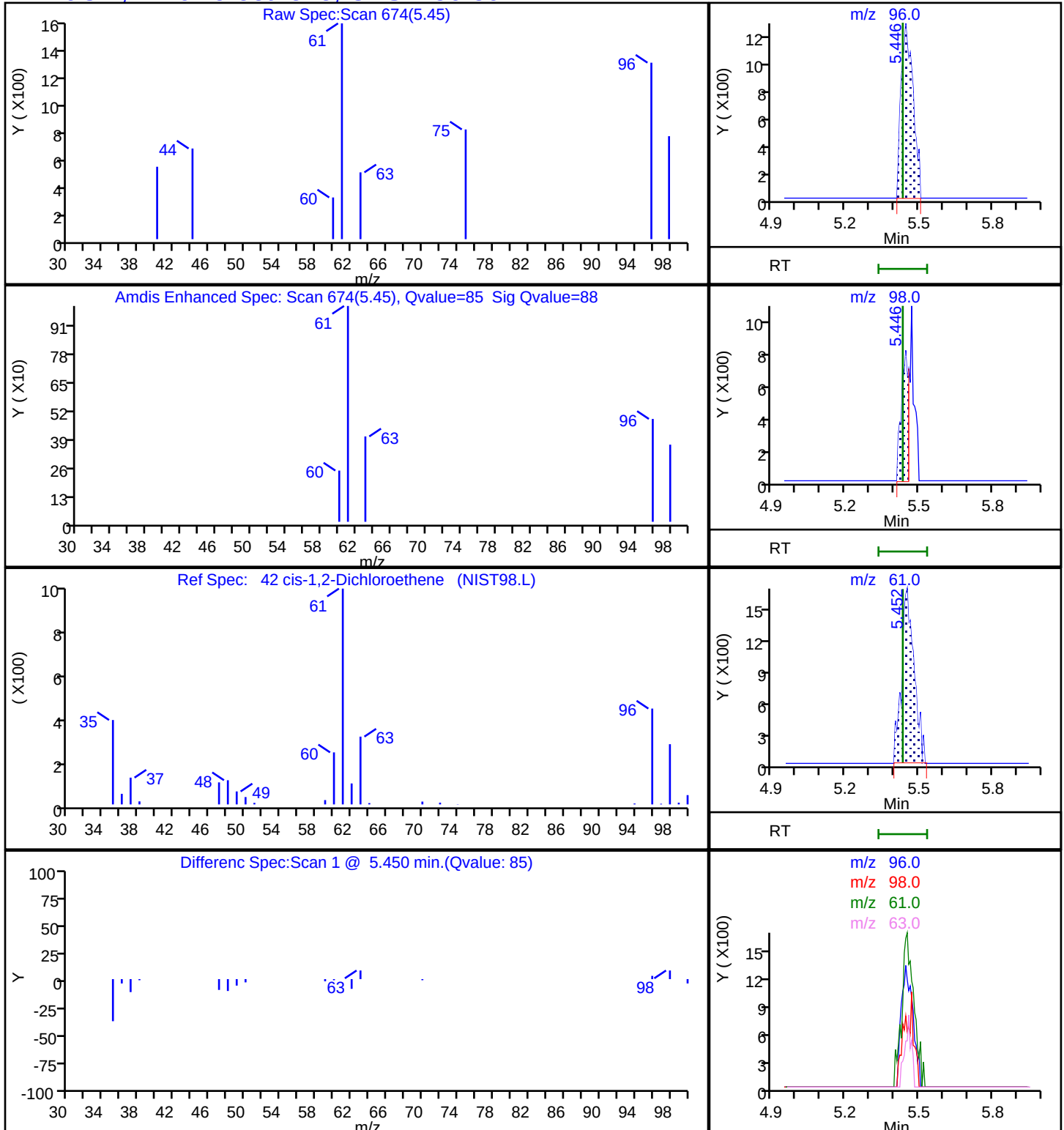
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X21.D

Injection Date: 01-Apr-2025 06:22:30

Instrument ID: 16334

Lims ID: 410-214590-A-10

Lab Sample ID: 410-214590-10

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

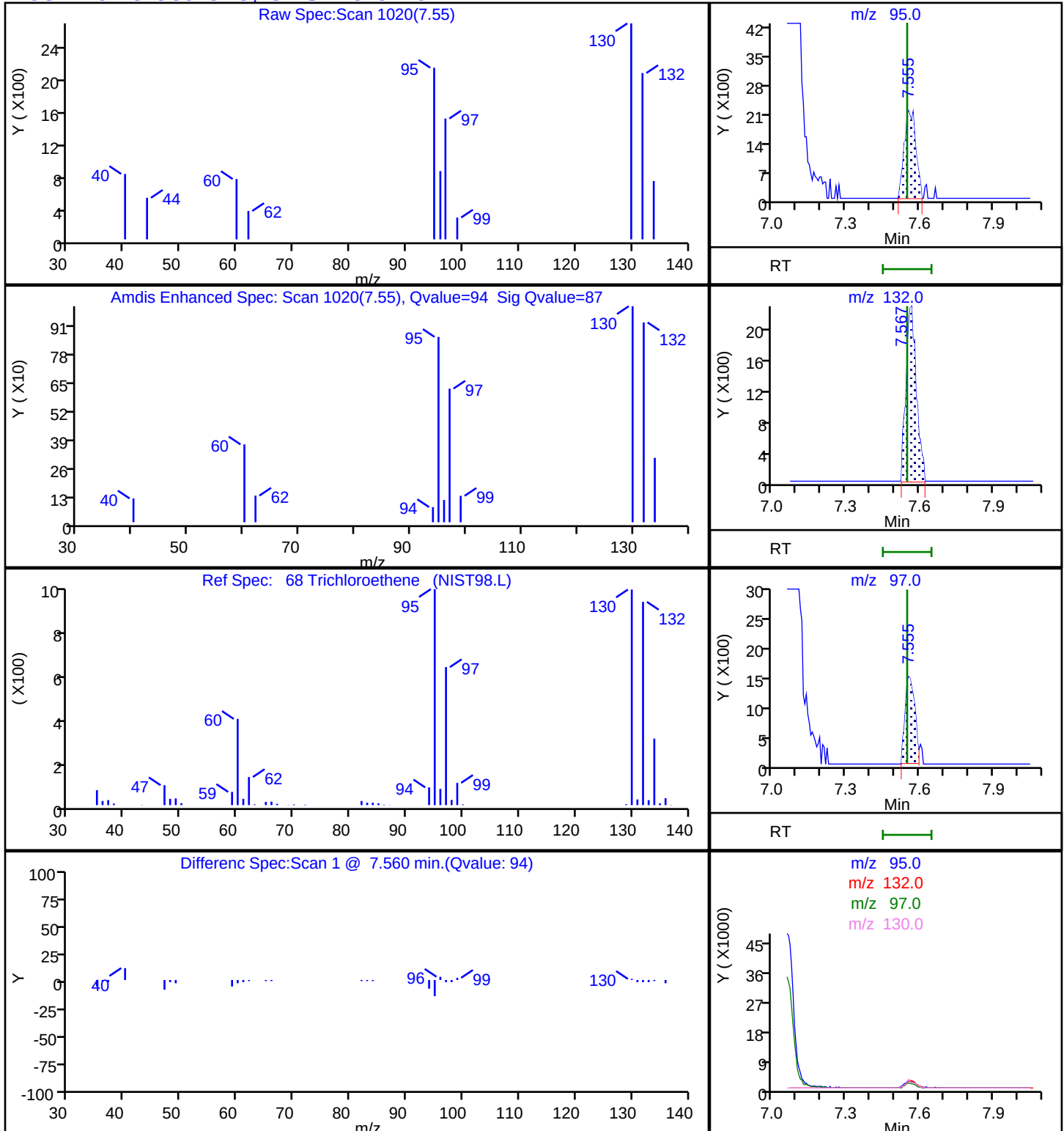
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

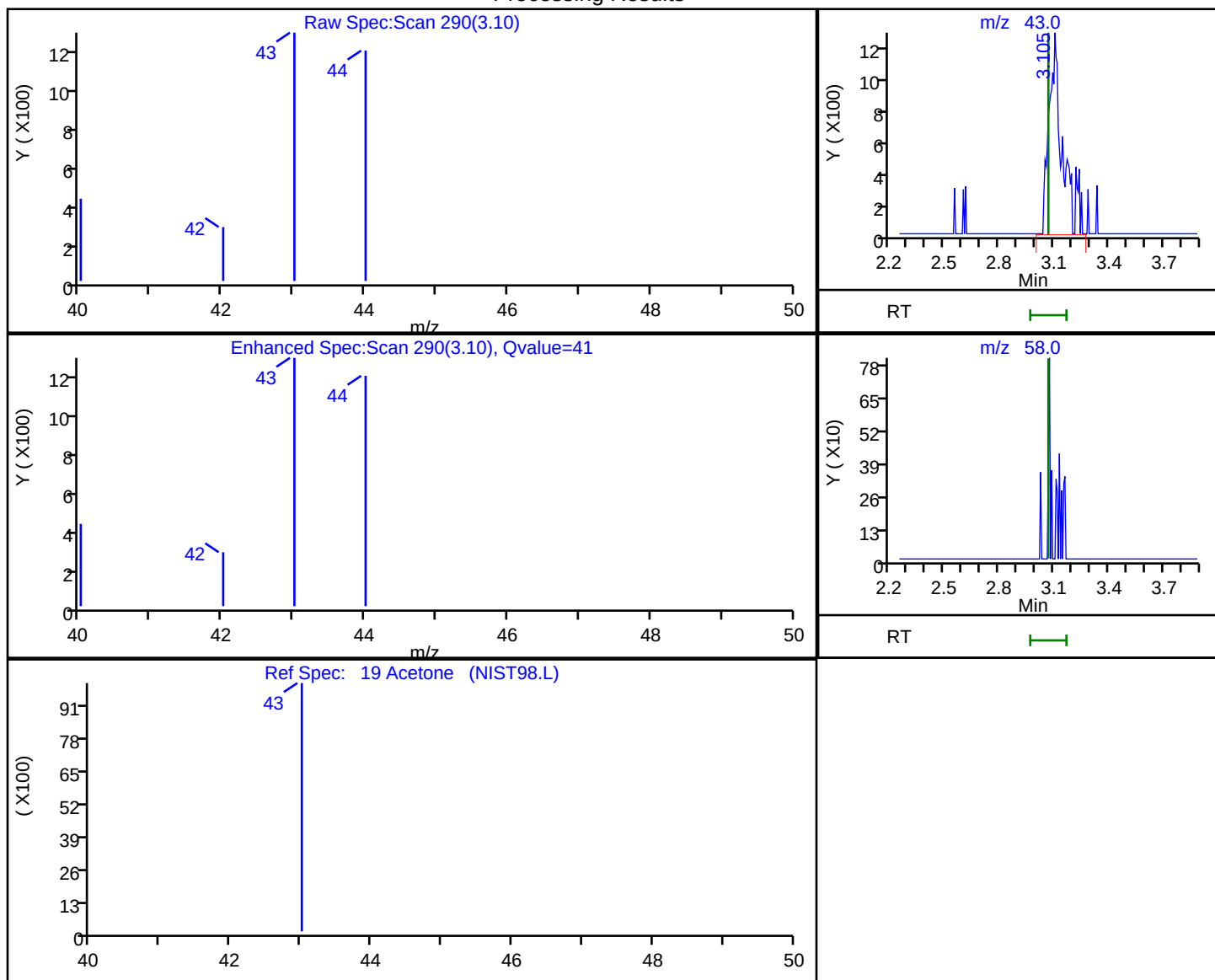
68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X21.D
Injection Date: 01-Apr-2025 06:22:30 Instrument ID: 16334
Lims ID: 410-214590-A-10 Lab Sample ID: 410-214590-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

19 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.10	43.00	6271	1.921214
3.07	58.00	0	

Reviewer: FQ4L, 02-Apr-2025 07:35:03 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

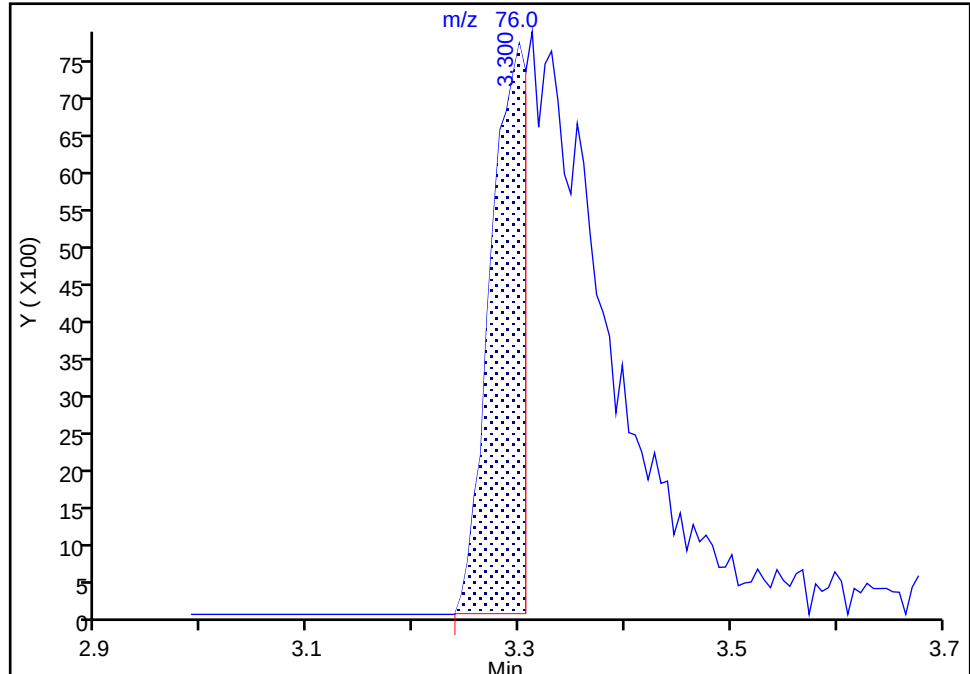
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X21.D
Injection Date: 01-Apr-2025 06:22:30 Instrument ID: 16334
Lims ID: 410-214590-A-10 Lab Sample ID: 410-214590-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

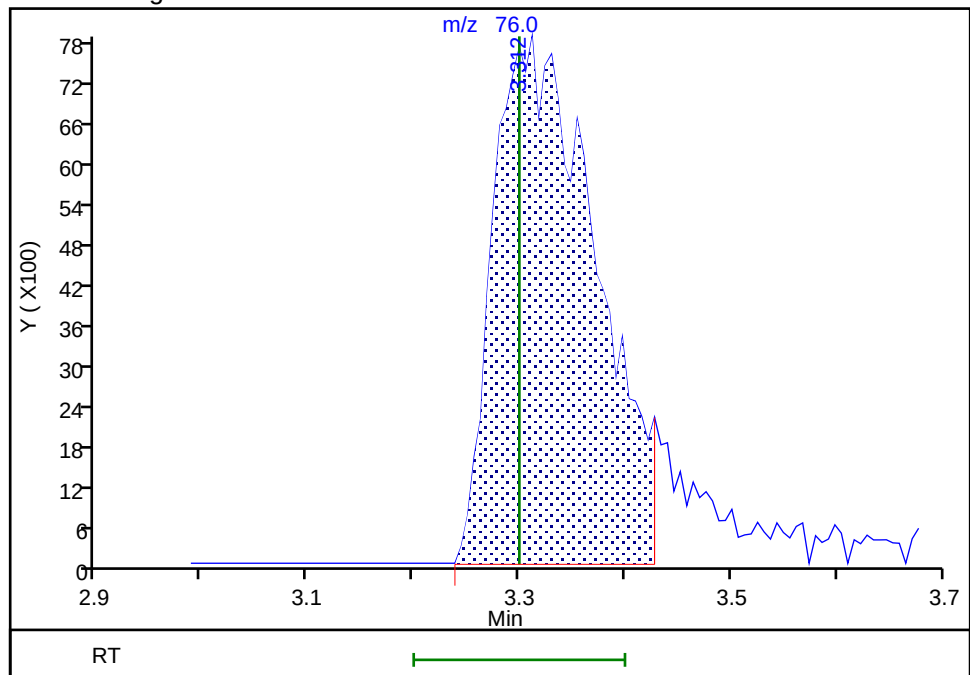
RT: 3.30
Area: 18223
Amount: 0.143795
Amount Units: ug/l

Processing Integration Results



RT: 3.31
Area: 53092
Amount: 0.418940
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 02-Apr-2025 07:35:08 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

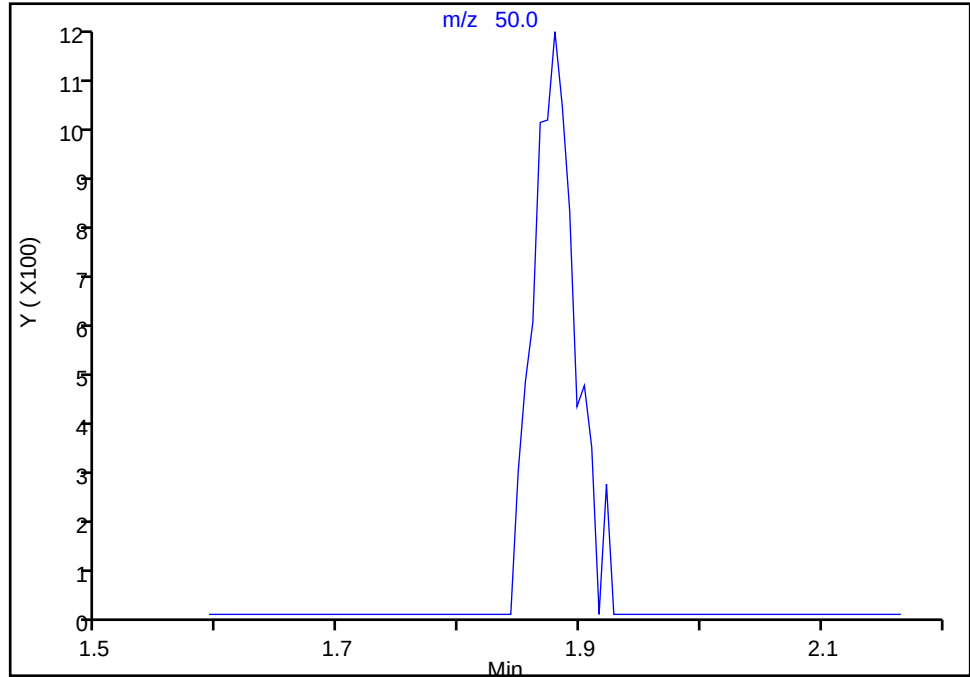
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Injection Date: 01-Apr-2025 06:22:30 Instrument ID: 16334
Lims ID: 410-214590-A-10 Lab Sample ID: 410-214590-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL 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

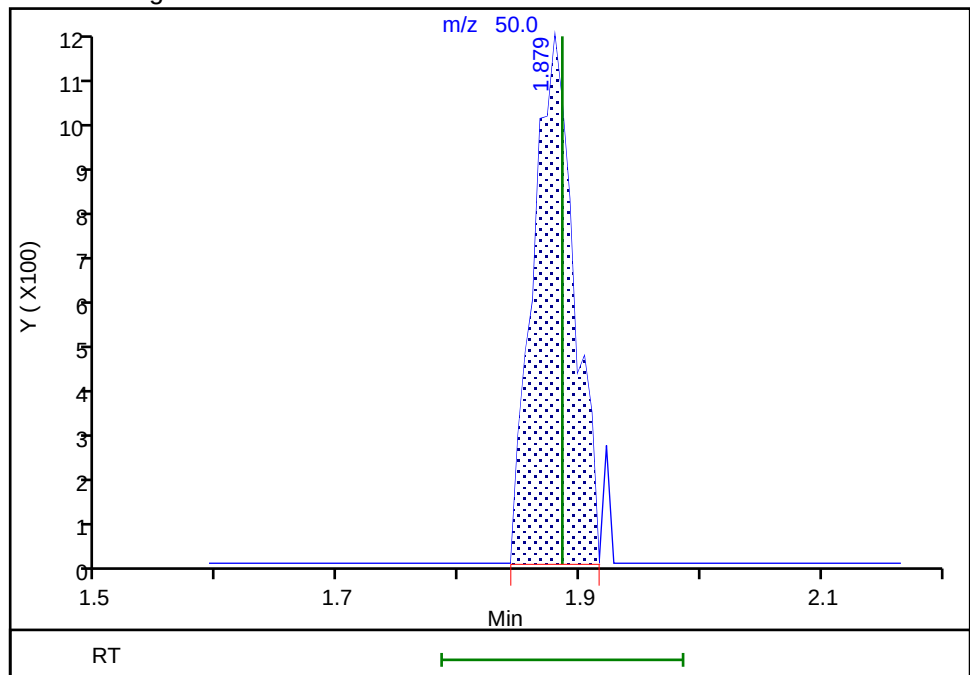
Not Detected
Expected RT: 1.89

Processing Integration Results



RT: 1.88
Area: 2812
Amount: 0.047803
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 02-Apr-2025 07:34:57 07:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

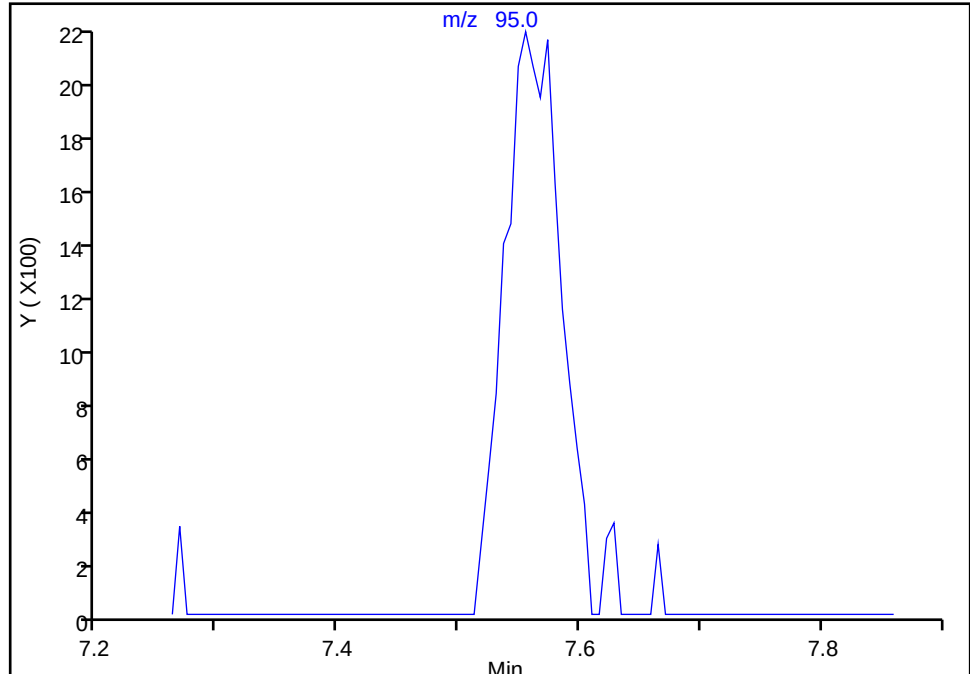
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X21.D
Injection Date: 01-Apr-2025 06:22:30 Instrument ID: 16334
Lims ID: 410-214590-A-10 Lab Sample ID: 410-214590-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

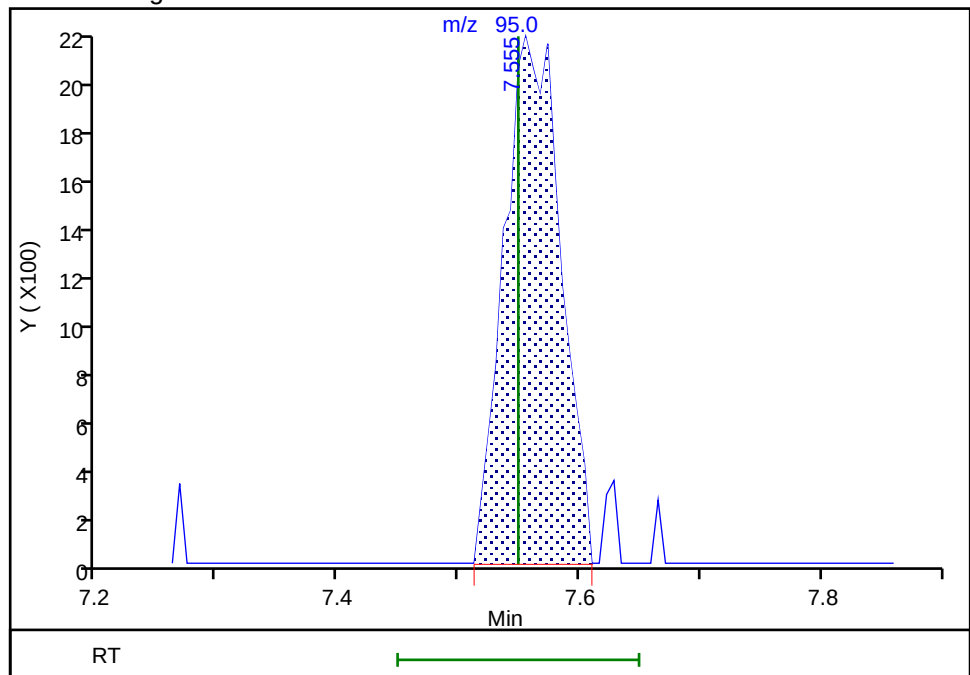
Not Detected
Expected RT: 7.55

Processing Integration Results



RT: 7.55
Area: 6924
Amount: 0.158359
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 02-Apr-2025 07:35:34 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.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-11

Matrix: Water

Lab File ID: GM31X22.D

Analysis Method: 8260D

Date Collected: 03/27/2025 12:45

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 06:44

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

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	^c cn	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	0.31	J cn	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	0.086	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	0.22	J	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-11

Matrix: Water

Lab File ID: GM31X22.D

Analysis Method: 8260D

Date Collected: 03/27/2025 12:45

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 06:44

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.24	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	0.13	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)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	92		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X22.D
 Lims ID: 410-214590-A-11
 Client ID: HD-COD-SW-28-0/1-0
 Sample Type: Client
 Inject. Date: 01-Apr-2025 06:44:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-023
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 02-Apr-2025 07:34:25 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:34:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.885				ND	
6 Vinyl chloride	62		1.983				ND	
9 Bromomethane	94		2.276				ND	
10 Chloroethane	64		2.318				ND	7
18 1,1-Dichloroethene	96		3.038				ND	
19 Acetone	43	3.068	3.068	0.000	66	5801	1.89	
24 Carbon disulfide	76	3.300	3.300	0.000	98	35472	0.3123	M
29 Methylene Chloride	84		3.592				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.623	3.617	0.006	21	53570	50.0	
33 Methyl tert-butyl ether	73		3.946				ND	
34 trans-1,2-Dichloroethene	96		3.946				ND	
37 1,1-Dichloroethane	63		4.574				ND	
41 2-Butanone (MEK)	43		5.421				ND	
42 cis-1,2-Dichloroethene	96	5.458	5.433	0.025	77	3438	0.0863	a
49 Chlorobromomethane	128		5.775				ND	
51 Chloroform	83	5.946	5.933	0.013	90	7406	0.1144	
\$ 52 Dibromofluoromethane (Surr)	113	6.153	6.153	0.000	92	347579	10.7	
53 1,1,1-Trichloroethane	97		6.159				ND	
55 Carbon tetrachloride	117		6.372				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.616	-0.006	65	62690	10.1	
60 Benzene	78		6.641				ND	
61 1,2-Dichloroethane	62		6.714				ND	
* 64 Fluorobenzene (IS)	96	7.061	7.061	0.000	99	1373881	10.0	
68 Trichloroethene	95	7.561	7.549	0.012	91	4938	0.1260	a
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.238				ND	7
81 cis-1,3-Dichloropropene	75		8.805				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1333520	9.24	
84 Toluene	92	9.226	9.225	0.001	98	24190	0.2413	
85 trans-1,3-Dichloropropene	75		9.524				ND	
107 1,1,2-Trichloroethane	97		9.738				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	9.823	9.823	0.000	95	9853	0.2178	
110 2-Hexanone	43		9.981				ND	
112 Chlorodibromomethane	129		10.134				ND	
113 Ethylene Dibromide	107		10.237				ND	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	85	1040119	10.0	
116 Chlorobenzene	112		10.725				ND	
117 1,1,1,2-Tetrachloroethane	131		10.817				ND	
118 Ethylbenzene	91		10.823				ND	7
120 m-Xylene & p-Xylene	106		10.945				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
121 o-Xylene	106		11.280				ND	
122 Styrene	104		11.298				ND	
123 Bromoform	173		11.451				ND	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	89	469078	9.41	
128 1,1,2,2-Tetrachloroethane	83		11.841				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	95	555558	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

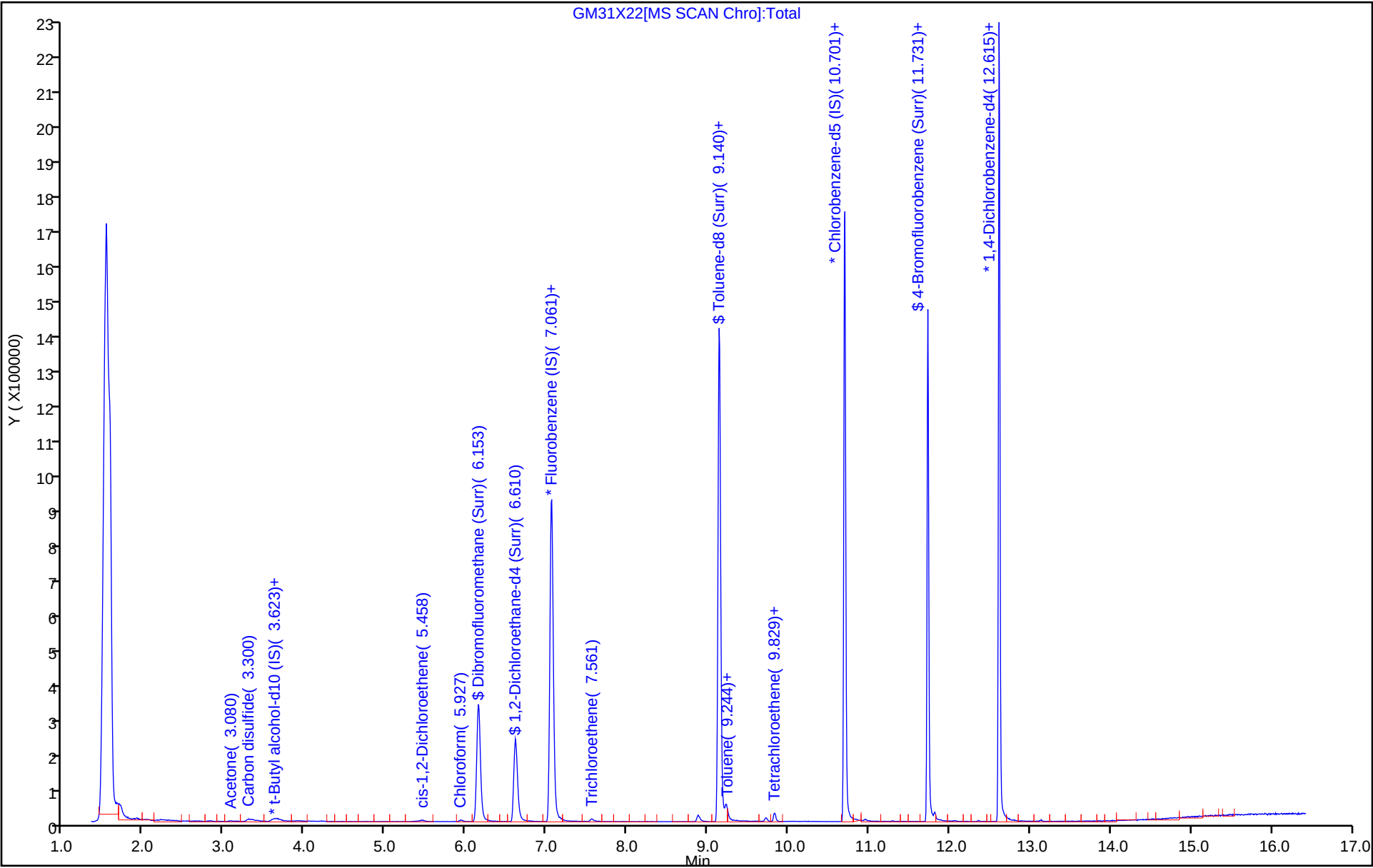
Reagents:

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X22.D
Lims ID: 410-214590-A-11
Client ID: HD-COD-SW-28-0/1-0
Sample Type: Client
Inject. Date: 01-Apr-2025 06:44:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-023
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 02-Apr-2025 07:34:25 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:34:25

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.7	107.23
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.37
\$ 83 Toluene-d8 (Surr)	10.0	9.24	92.37
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.41	94.09

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X22.D

Injection Date: 01-Apr-2025 06:44:30

Instrument ID: 16334

Lims ID: 410-214590-A-11

Lab Sample ID: 410-214590-11

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

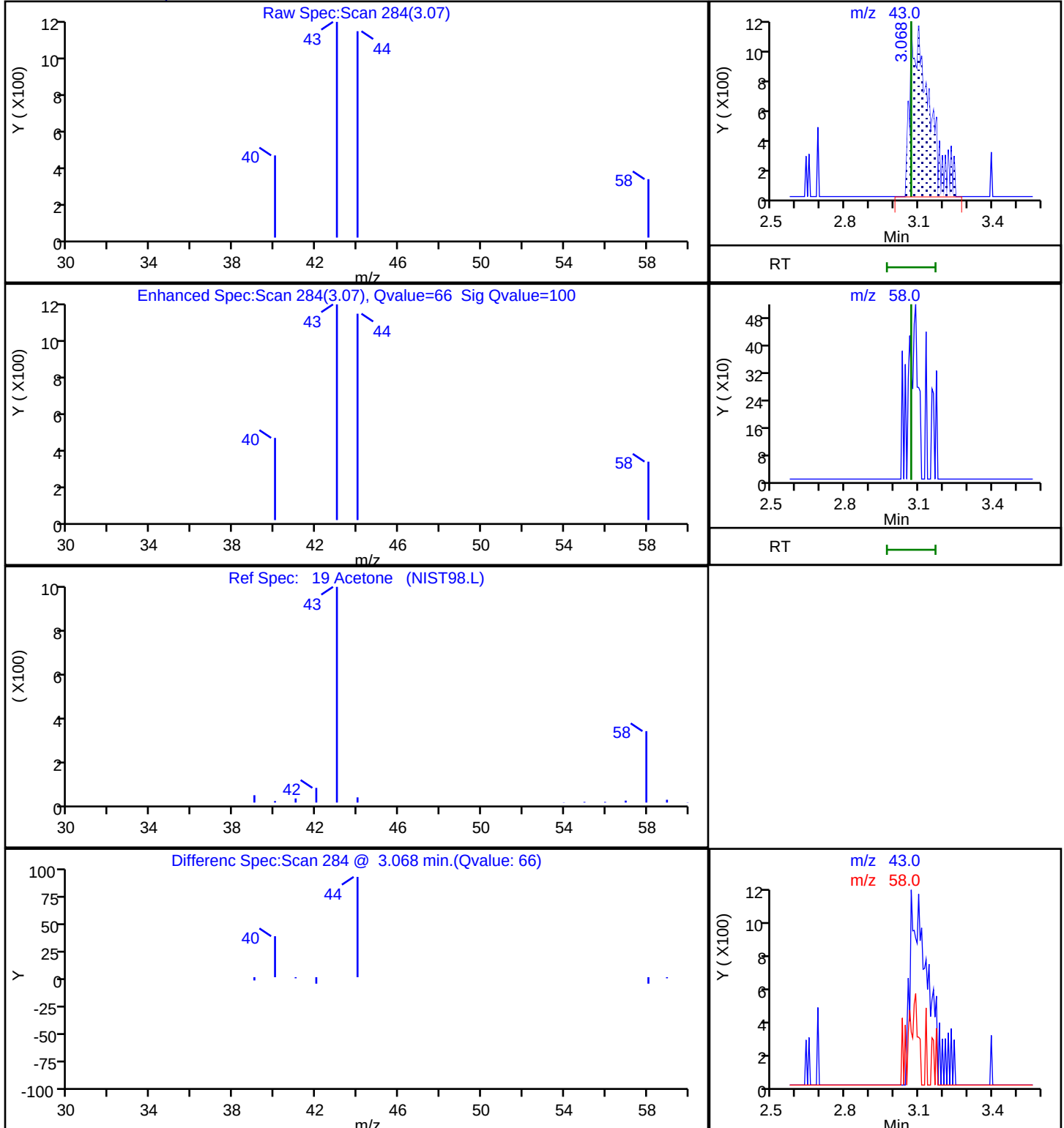
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

19 Acetone, CAS: 67-64-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X22.D

Injection Date: 01-Apr-2025 06:44:30

Instrument ID: 16334

Lims ID: 410-214590-A-11

Lab Sample ID: 410-214590-11

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

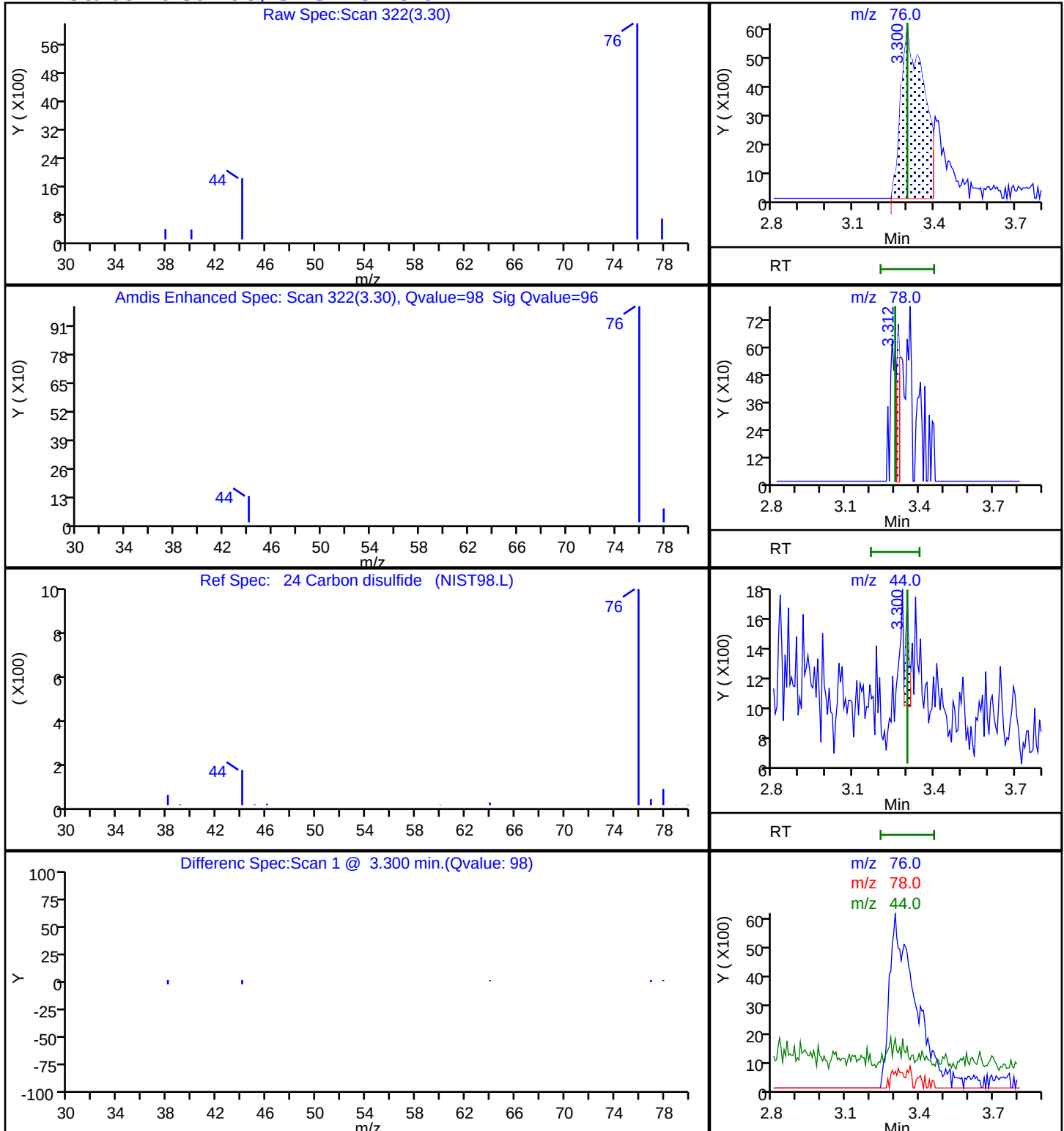
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

24 Carbon disulfide, CAS: 75-15-0

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X22.D

Injection Date: 01-Apr-2025 06:44:30

Instrument ID: 16334

Lims ID: 410-214590-A-11

Lab Sample ID: 410-214590-11

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

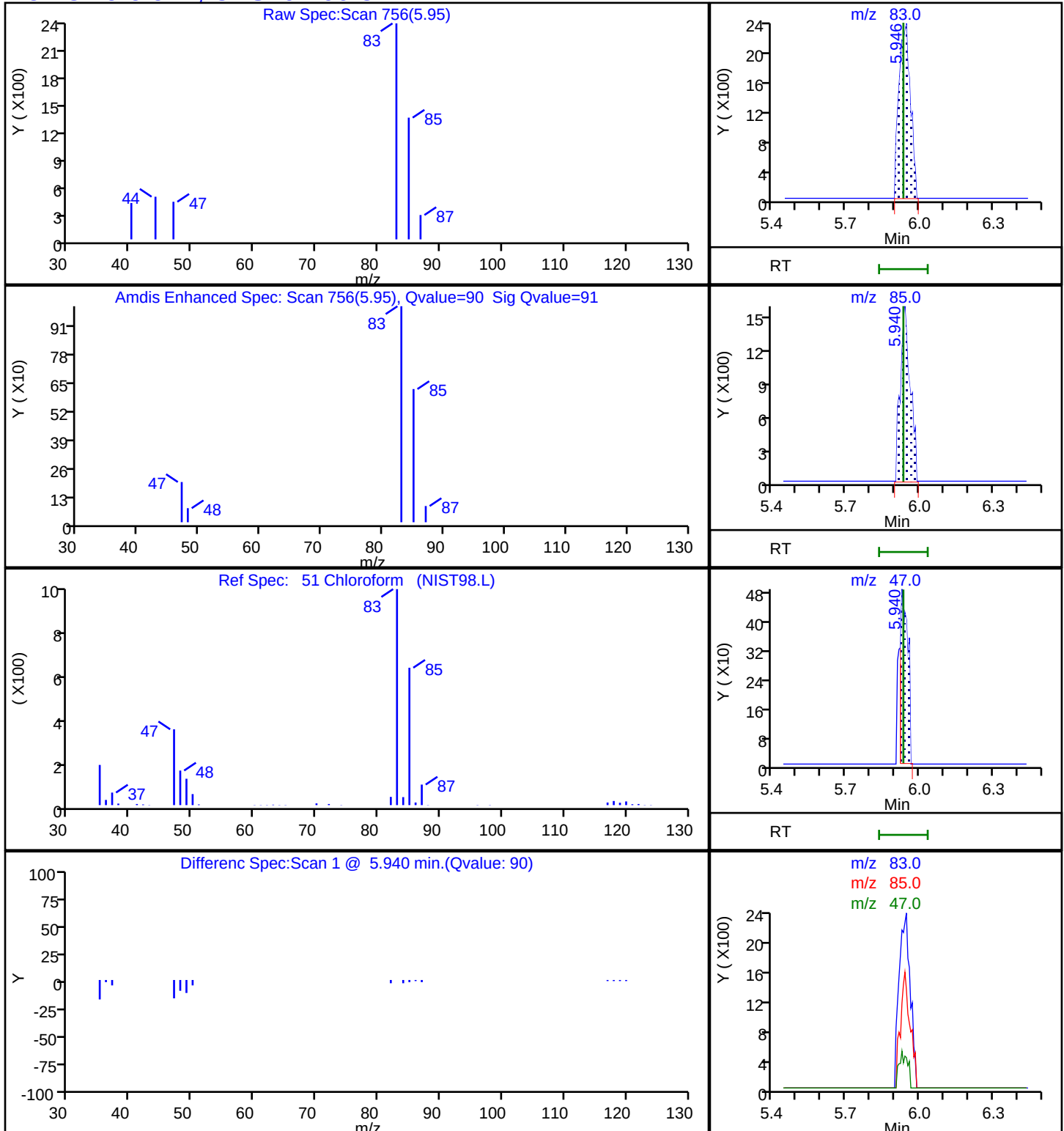
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

51 Chloroform, CAS: 67-66-3

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X22.D

Injection Date: 01-Apr-2025 06:44:30

Instrument ID: 16334

Lims ID: 410-214590-A-11

Lab Sample ID: 410-214590-11

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

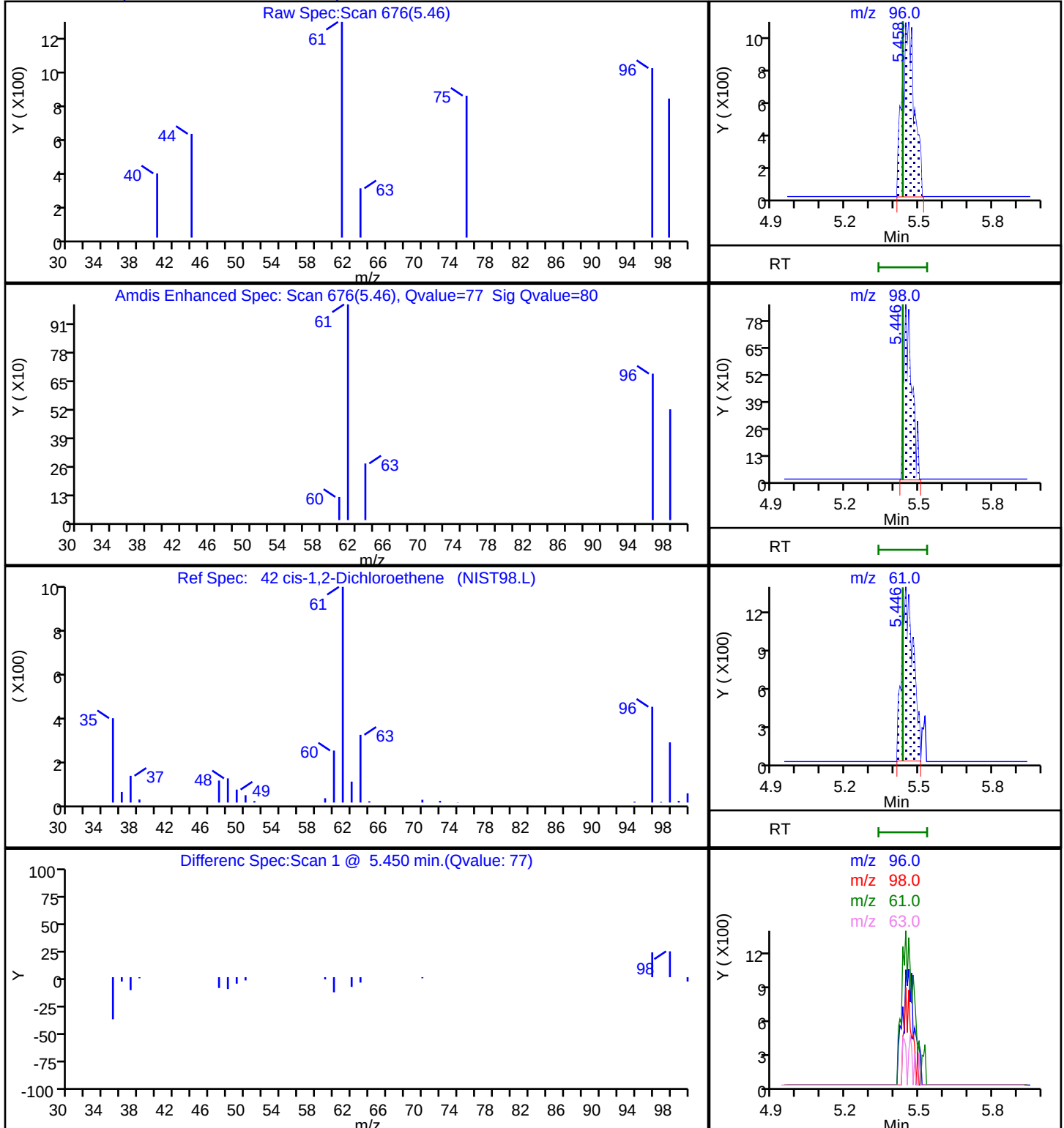
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X22.D

Injection Date: 01-Apr-2025 06:44:30

Instrument ID: 16334

Lims ID: 410-214590-A-11

Lab Sample ID: 410-214590-11

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

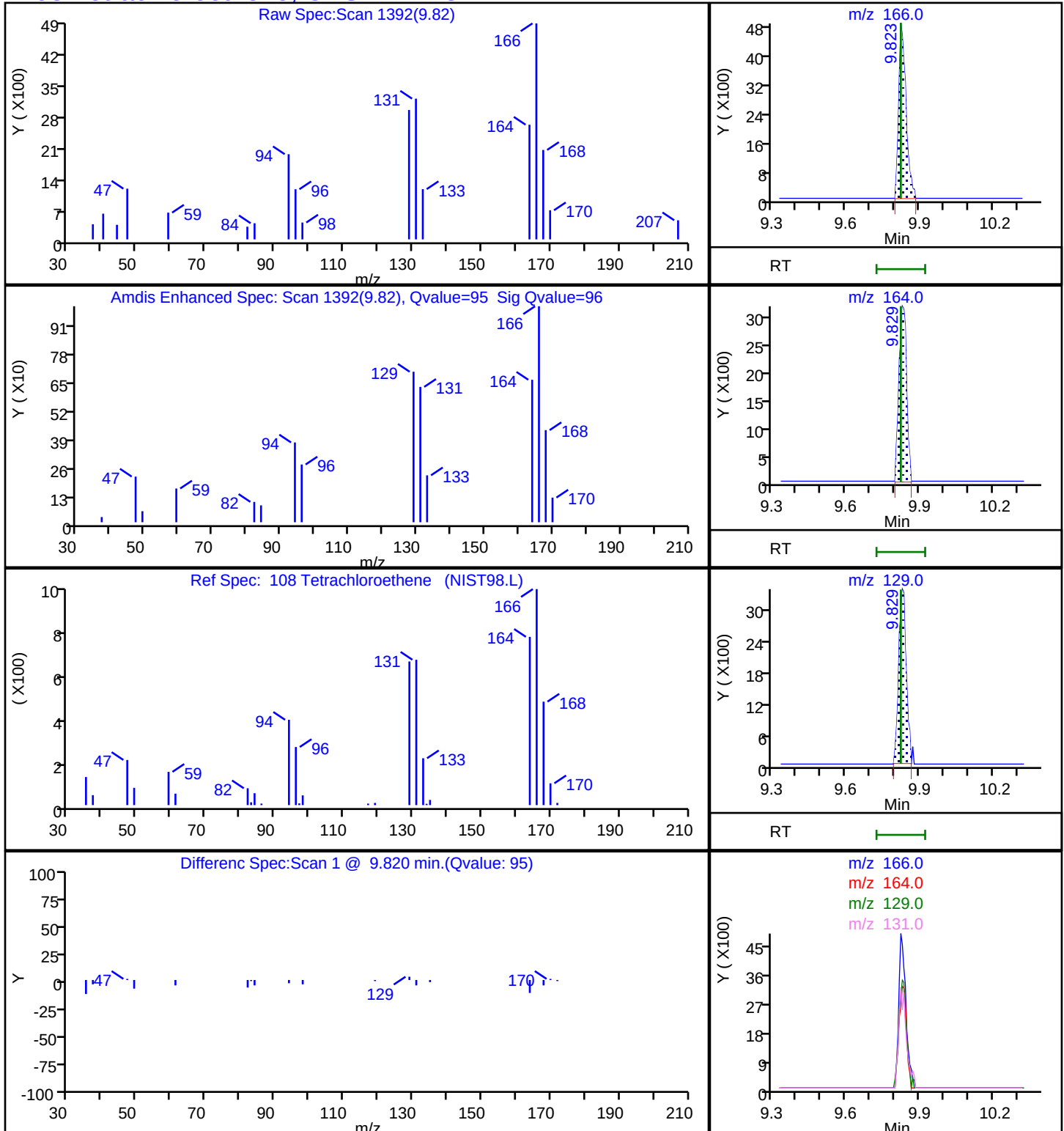
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

108 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X22.D

Injection Date: 01-Apr-2025 06:44:30

Instrument ID: 16334

Lims ID: 410-214590-A-11

Lab Sample ID: 410-214590-11

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

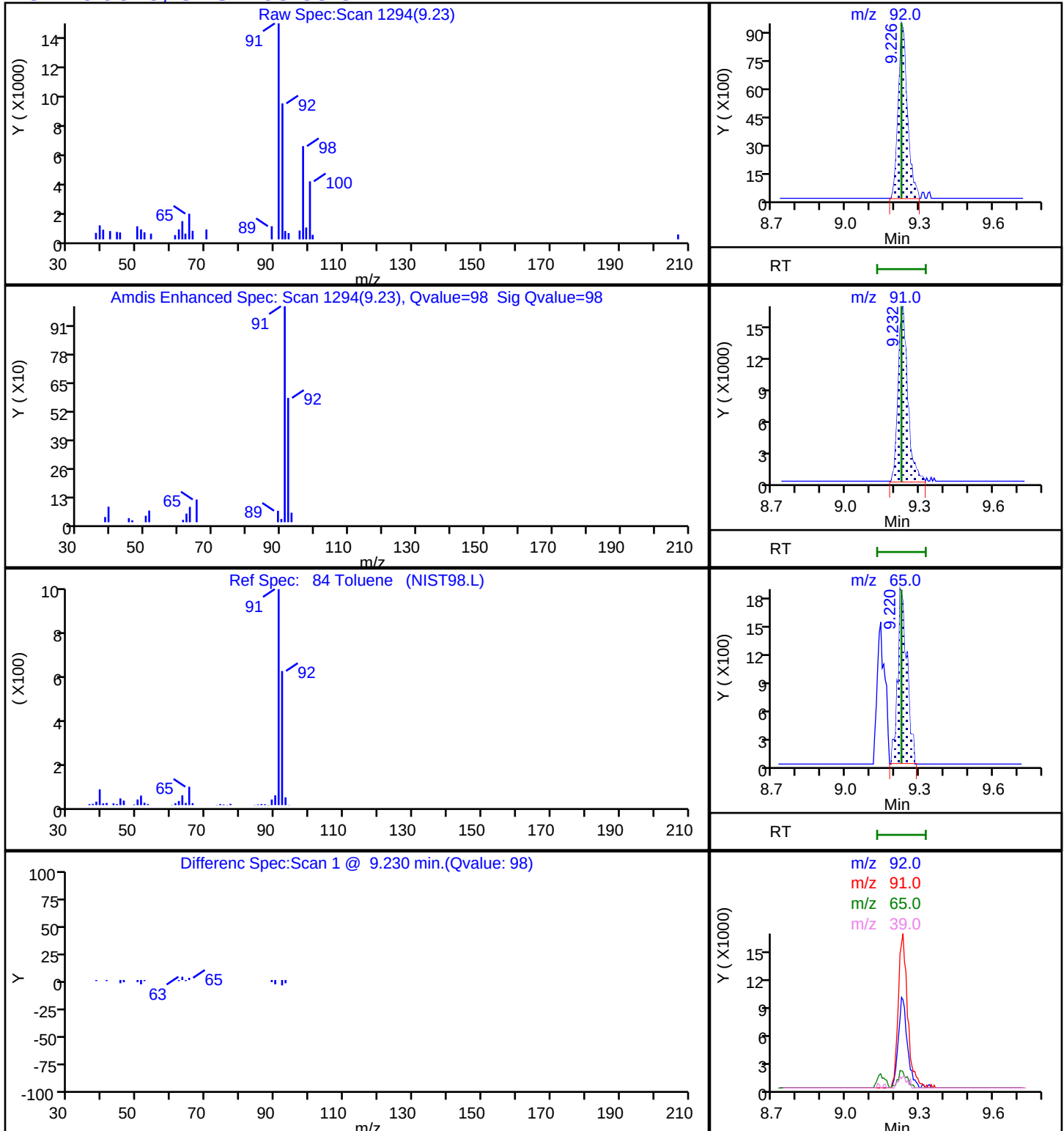
Dil. Factor: 1.0000

Method: MSV_16334_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\16334\20250331-142555.b\GM31X22.D

Injection Date: 01-Apr-2025 06:44:30

Instrument ID: 16334

Lims ID: 410-214590-A-11

Lab Sample ID: 410-214590-11

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

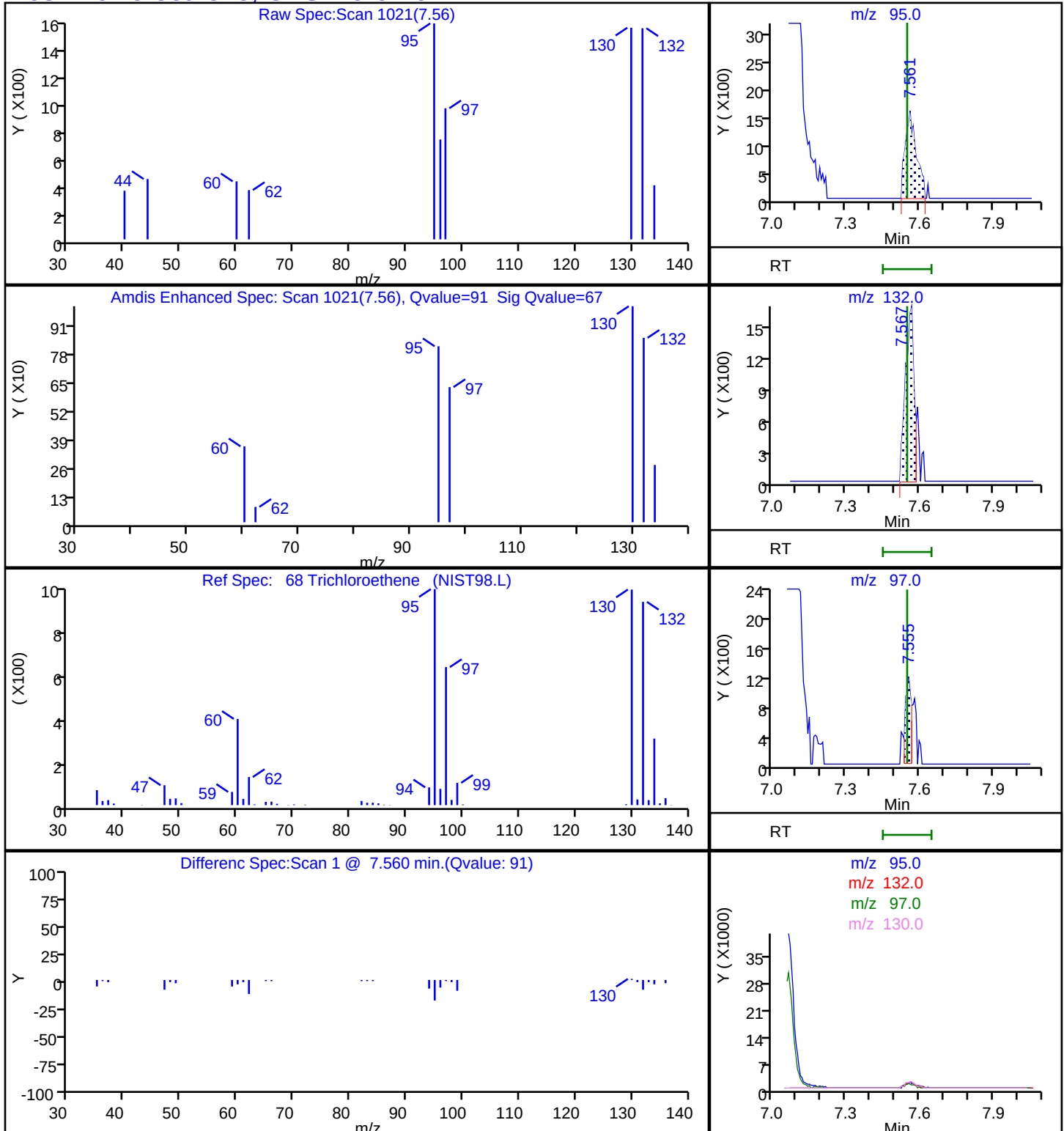
Dil. Factor: 1.0000

Method: MSV_16334_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

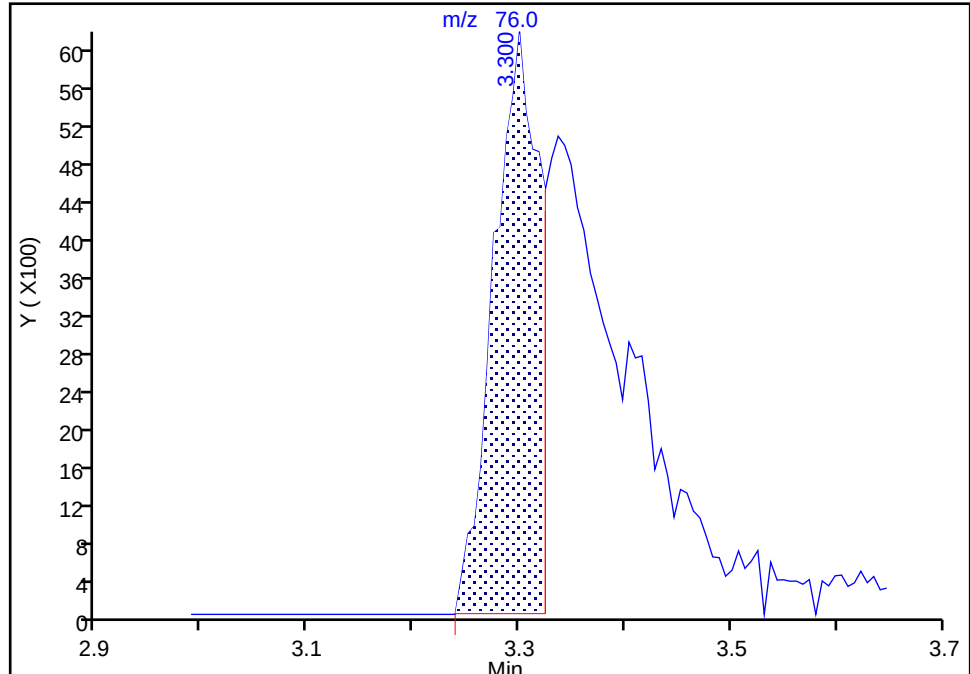
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Injection Date: 01-Apr-2025 06:44:30 Instrument ID: 16334
Lims ID: 410-214590-A-11 Lab Sample ID: 410-214590-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

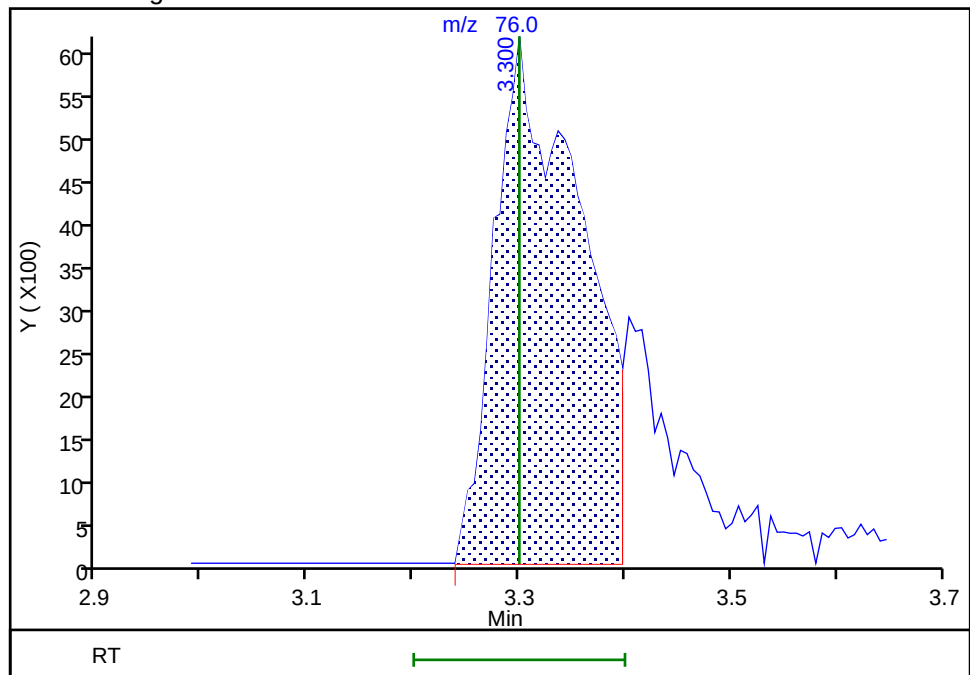
RT: 3.30
Area: 18658
Amount: 0.164253
Amount Units: ug/l

Processing Integration Results



RT: 3.30
Area: 35472
Amount: 0.312273
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 02-Apr-2025 07:34:01 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

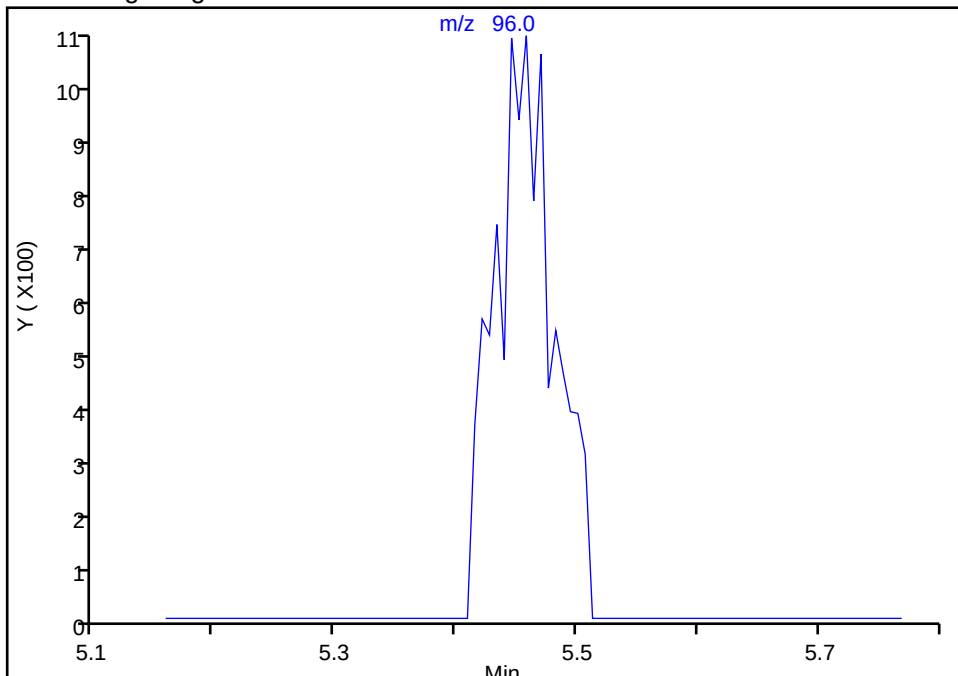
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X22.D
Injection Date: 01-Apr-2025 06:44:30 Instrument ID: 16334
Lims ID: 410-214590-A-11 Lab Sample ID: 410-214590-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

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

Signal: 1

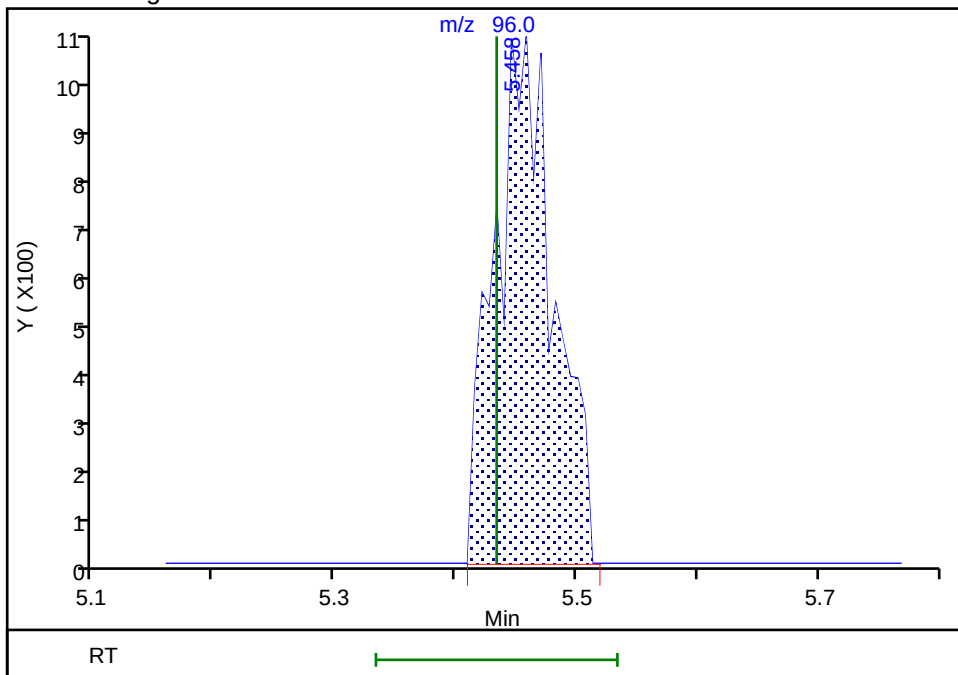
Not Detected
Expected RT: 5.43

Processing Integration Results



RT: 5.46
Area: 3438
Amount: 0.086307
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 02-Apr-2025 07:34:08 07:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

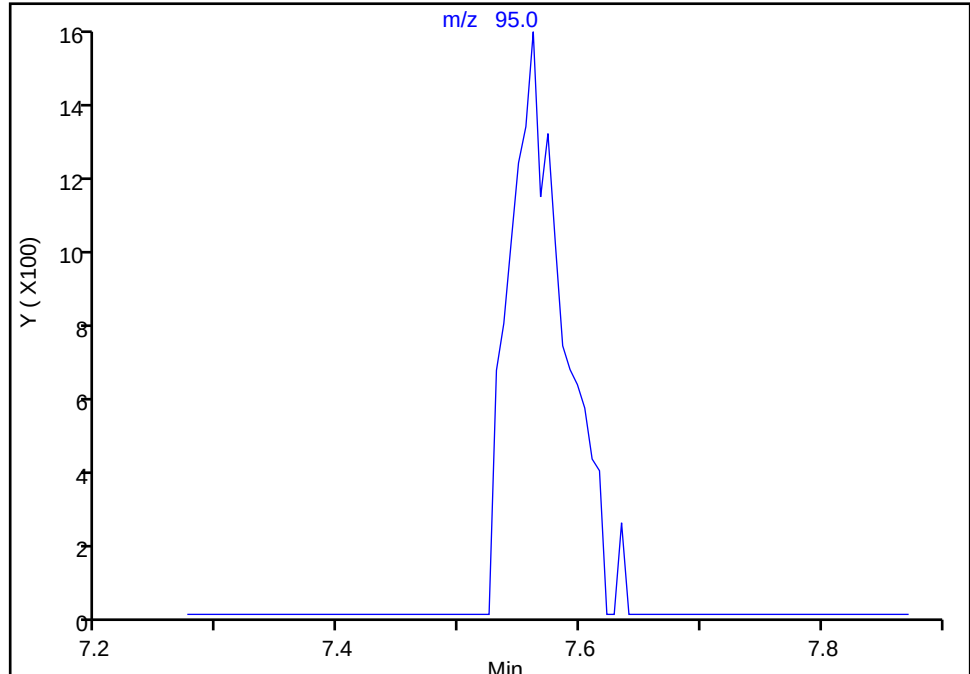
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Injection Date: 01-Apr-2025 06:44:30 Instrument ID: 16334
Lims ID: 410-214590-A-11 Lab Sample ID: 410-214590-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

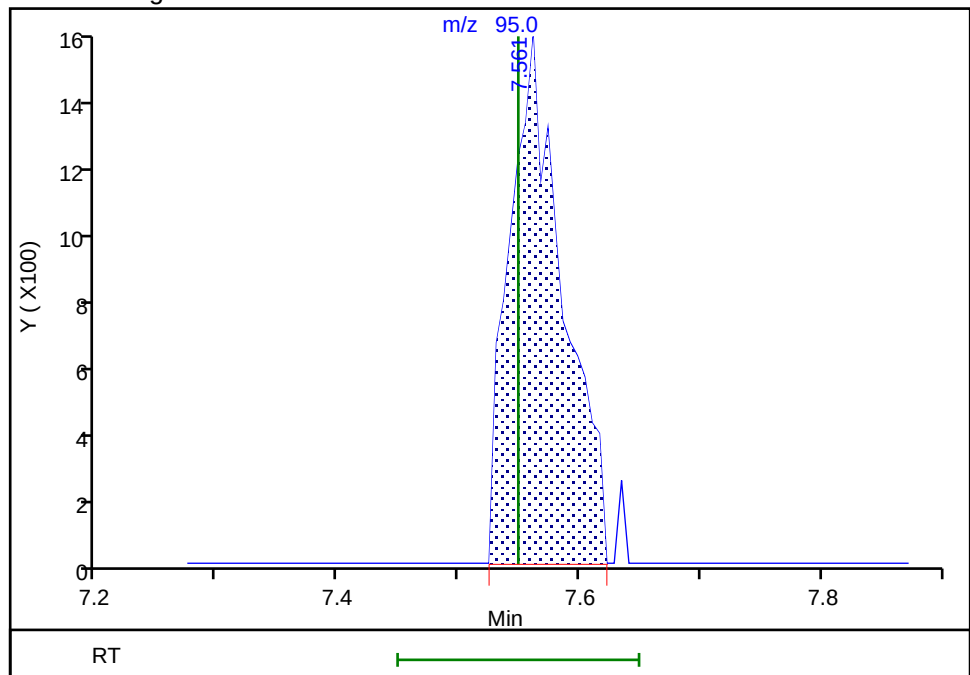
Not Detected
Expected RT: 7.55

Processing Integration Results



RT: 7.56
Area: 4938
Amount: 0.125997
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 02-Apr-2025 07:34:15 07:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-12

Matrix: Water

Lab File ID: GM31X23.D

Analysis Method: 8260D

Date Collected: 03/27/2025 08:30

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 07:06

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

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	^c cn	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	0.28	J cn	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	0.14	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	0.74		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-214590-12

Matrix: Water Lab File ID: GM31X23.D

Analysis Method: 8260D Date Collected: 03/27/2025 08:30

Sample wt/vol: 25 (mL) Date Analyzed: 04/01/2025 07:06

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.: 624273 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 16334

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)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
2037-26-5	Toluene-d8 (Surr)	93		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X23.D
 Lims ID: 410-214590-A-12
 Client ID: HD-COD-SW-29-0/1-0
 Sample Type: Client
 Inject. Date: 01-Apr-2025 07:06:30 ALS Bottle#: 23 Worklist Smp#: 24
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-024
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 02-Apr-2025 07:31:11 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:31:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.873	1.885	-0.012	93	2628	0.0433	
6 Vinyl chloride	62		1.983				ND	
9 Bromomethane	94		2.276				ND	
10 Chloroethane	64		2.318				ND	
18 1,1-Dichloroethene	96		3.038				ND	
19 Acetone	43	3.086	3.068	0.018	66	3612	0.9729	
24 Carbon disulfide	76	3.306	3.300	0.006	98	36414	0.2785	M
29 Methylene Chloride	84		3.592				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.641	3.617	0.024	22	64703	50.0	
33 Methyl tert-butyl ether	73		3.946				ND	
34 trans-1,2-Dichloroethene	96		3.946				ND	
37 1,1-Dichloroethane	63		4.574				ND	
41 2-Butanone (MEK)	43		5.421				ND	
42 cis-1,2-Dichloroethene	96	5.434	5.433	0.001	75	6603	0.1440	
49 Chlorobromomethane	128		5.775				ND	
51 Chloroform	83	5.933	5.933	0.000	87	7572	0.1016	
\$ 52 Dibromofluoromethane (Surr)	113	6.147	6.153	-0.006	93	395453	10.6	
53 1,1,1-Trichloroethane	97	6.153	6.159	-0.006	41	3123	0.0474	
55 Carbon tetrachloride	117		6.372				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.604	6.616	-0.012	65	70603	9.92	
60 Benzene	78		6.641				ND	7
61 1,2-Dichloroethane	62		6.714				ND	
* 64 Fluorobenzene (IS)	96	7.055	7.061	-0.006	99	1581241	10.0	
68 Trichloroethene	95	7.555	7.549	0.006	94	9779	0.2168	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.238				ND	
81 cis-1,3-Dichloropropene	75		8.805				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1584304	9.29	
84 Toluene	92	9.232	9.225	0.007	97	6916	0.0584	
85 trans-1,3-Dichloropropene	75		9.524				ND	
107 1,1,2-Trichloroethane	97		9.738				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	9.823	9.823	0.000	96	39284	0.7355	
110 2-Hexanone	43		9.981				ND	
112 Chlorodibromomethane	129		10.134				ND	
113 Ethylene Dibromide	107		10.237				ND	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	85	1228168	10.0	
116 Chlorobenzene	112		10.725				ND	
117 1,1,1,2-Tetrachloroethane	131		10.817				ND	
118 Ethylbenzene	91		10.823				ND	
120 m-Xylene & p-Xylene	106		10.945				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
121 o-Xylene	106		11.280				ND	
122 Styrene	104		11.298				ND	
123 Bromoform	173		11.451				ND	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	89	562545	9.56	
128 1,1,2,2-Tetrachloroethane	83		11.841				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	95	651928	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Report Date: 02-Apr-2025 07:31:12

Chrom Revision: 2.3 21-Mar-2025 14:03:38

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X23.D

Injection Date: 01-Apr-2025 07:06:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-A-12

Lab Sample ID: 410-214590-12

Worklist Smp#: 24

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

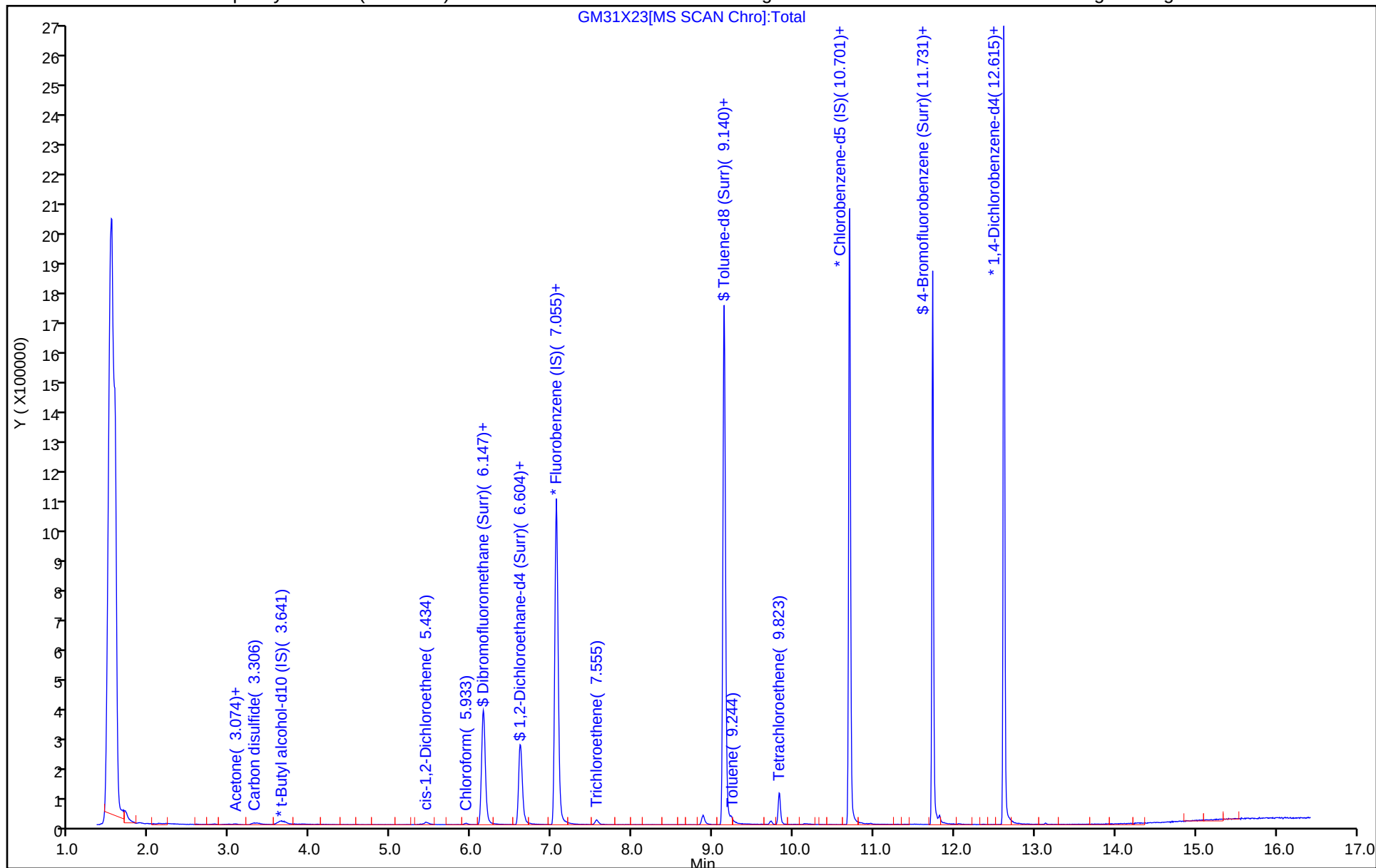
ALS Bottle#: 23

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X23.D
Lims ID: 410-214590-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 01-Apr-2025 07:06:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-024
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 02-Apr-2025 07:31:11 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:31:11

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.6	106.00
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.92	99.20
\$ 83 Toluene-d8 (Surr)	10.0	9.29	92.94
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.56	95.56

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X23.D

Injection Date: 01-Apr-2025 07:06:30

Instrument ID: 16334

Lims ID: 410-214590-A-12

Lab Sample ID: 410-214590-12

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

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 25.000 mL

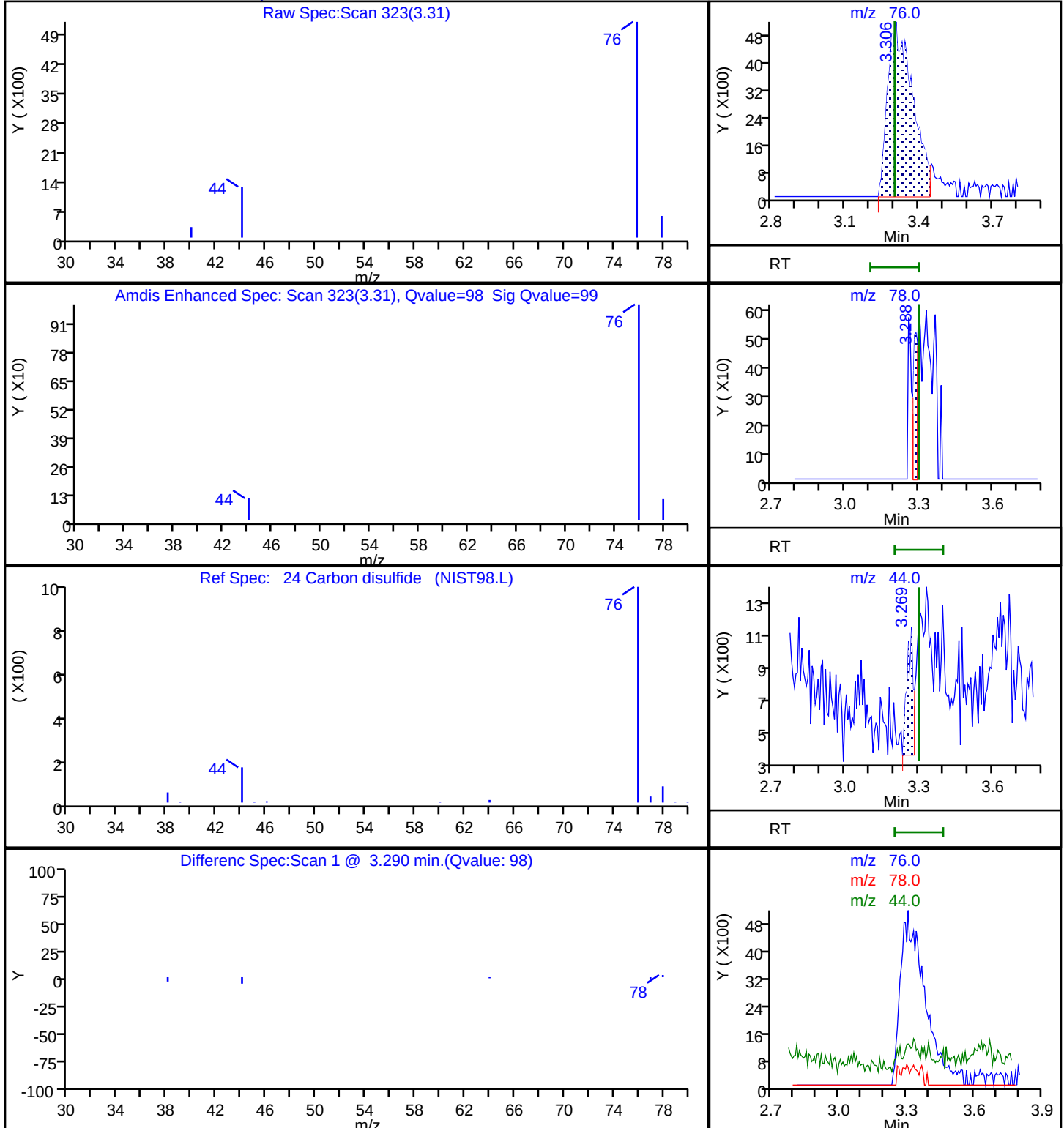
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

24 Carbon disulfide, CAS: 75-15-0

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X23.D

Injection Date: 01-Apr-2025 07:06:30

Instrument ID: 16334

Lims ID: 410-214590-A-12

Lab Sample ID: 410-214590-12

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

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 25.000 mL

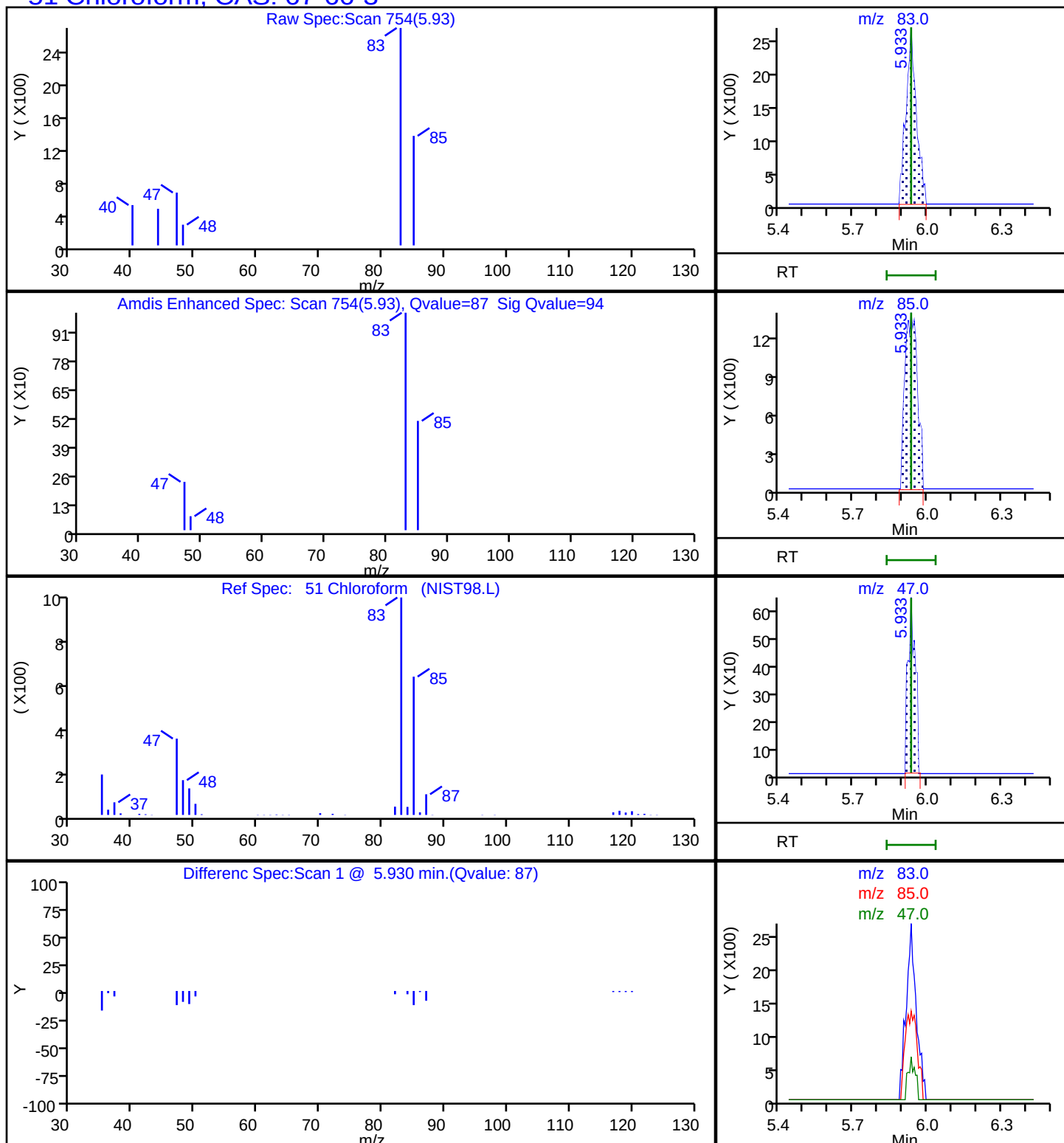
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

51 Chloroform, CAS: 67-66-3

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X23.D

Injection Date: 01-Apr-2025 07:06:30

Instrument ID: 16334

Lims ID: 410-214590-A-12

Lab Sample ID: 410-214590-12

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

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 25.000 mL

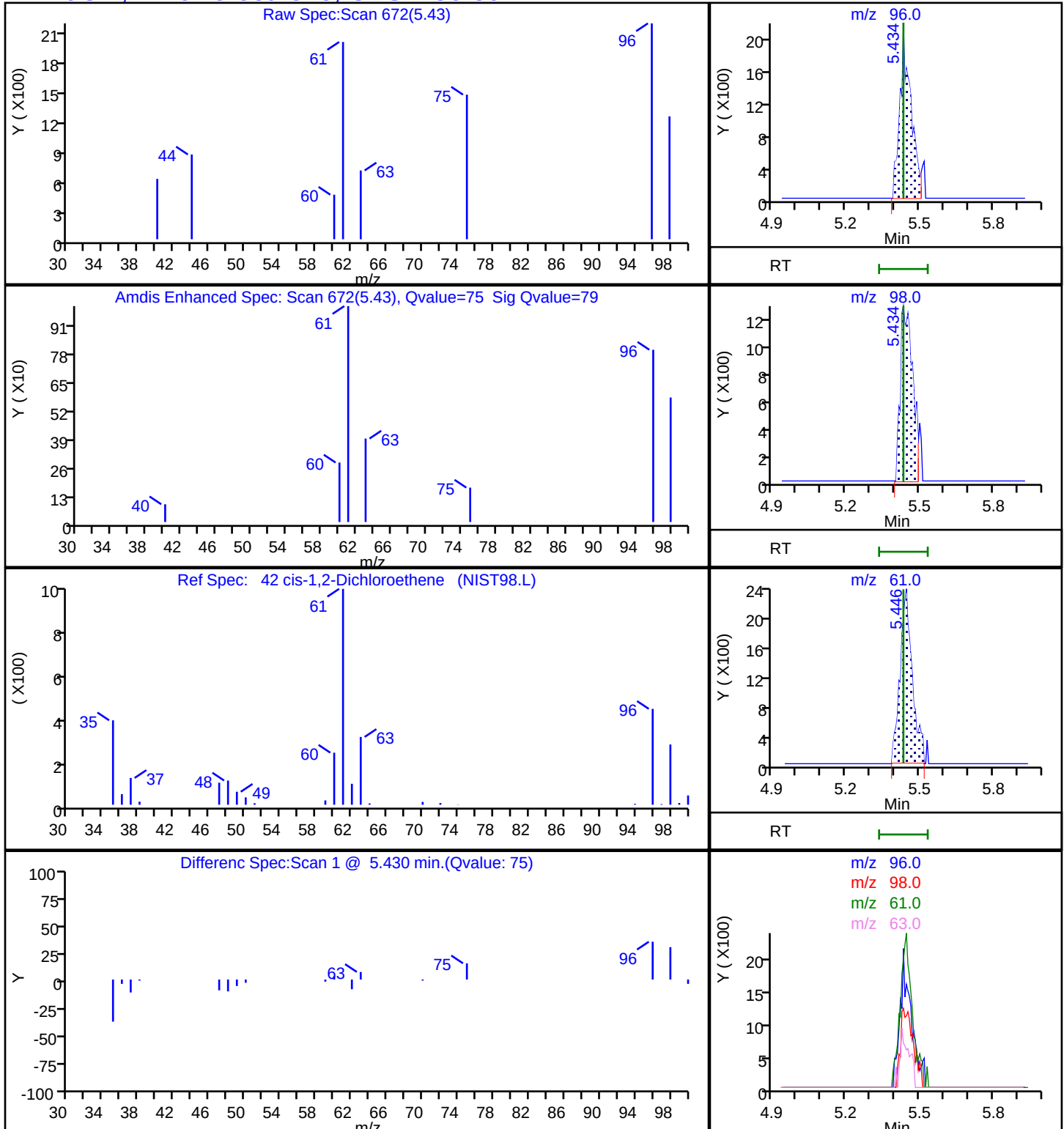
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X23.D

Injection Date: 01-Apr-2025 07:06:30

Instrument ID: 16334

Lims ID: 410-214590-A-12

Lab Sample ID: 410-214590-12

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

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 25.000 mL

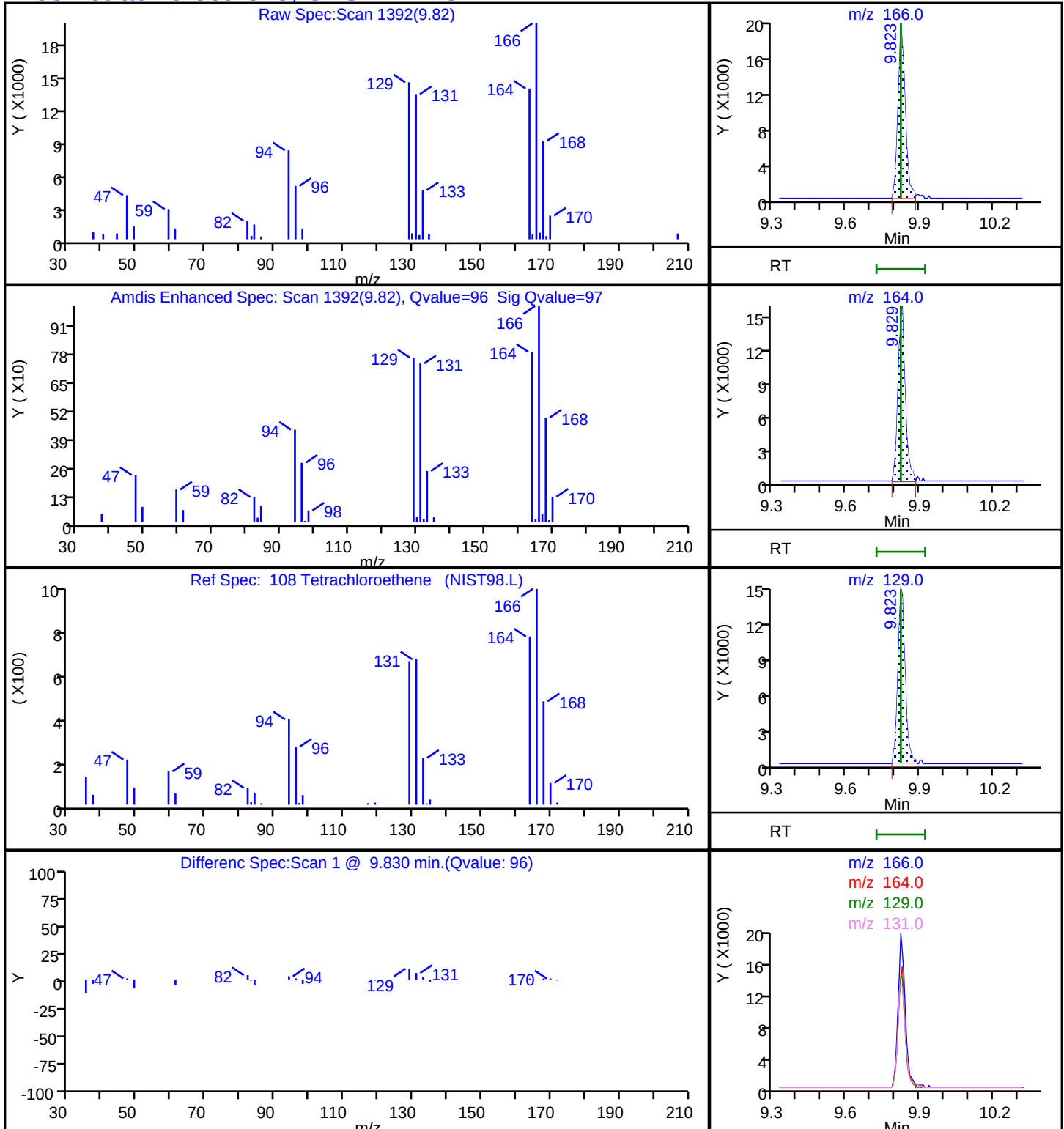
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

108 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X23.D

Injection Date: 01-Apr-2025 07:06:30

Instrument ID: 16334

Lims ID: 410-214590-A-12

Lab Sample ID: 410-214590-12

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

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 25.000 mL

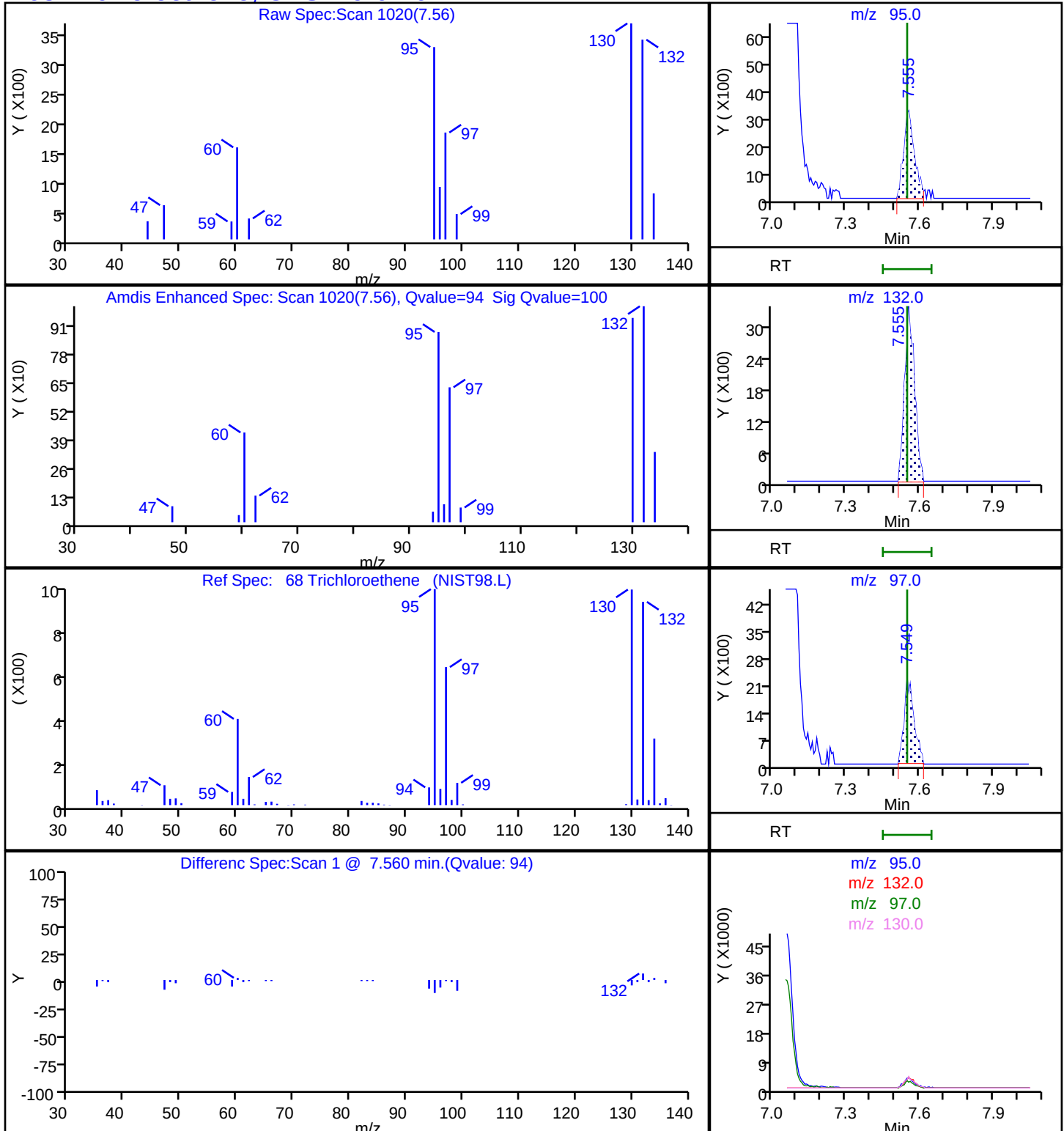
Dil. Factor: 1.0000

Method: MSV_16334_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

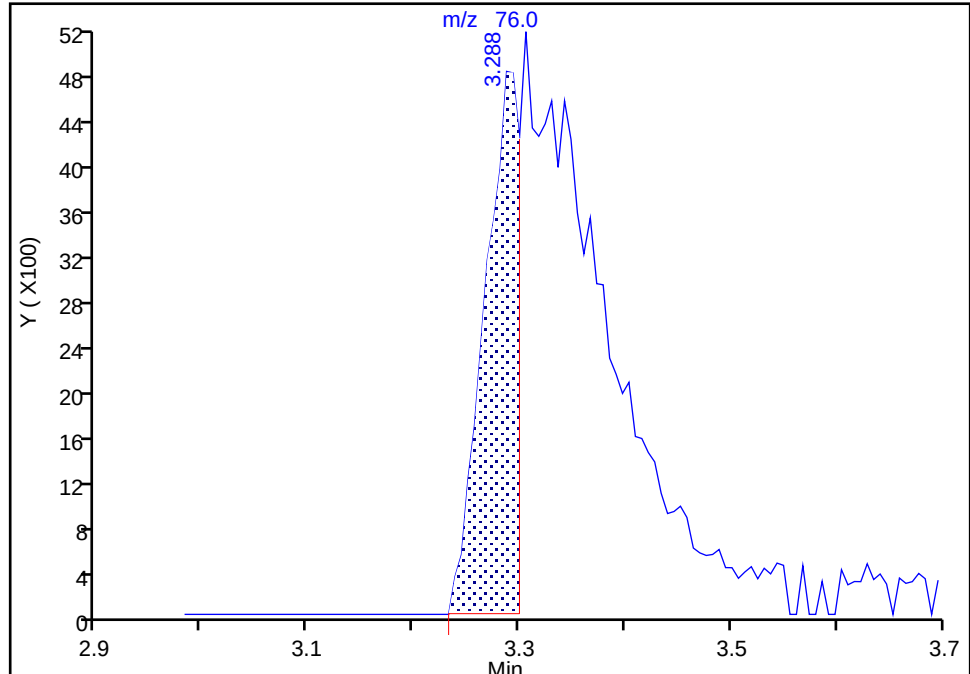
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X23.D
Injection Date: 01-Apr-2025 07:06:30 Instrument ID: 16334
Lims ID: 410-214590-A-12 Lab Sample ID: 410-214590-12
Client ID: HD-COD-SW-29-0/1-0
Operator ID: gaw91131 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

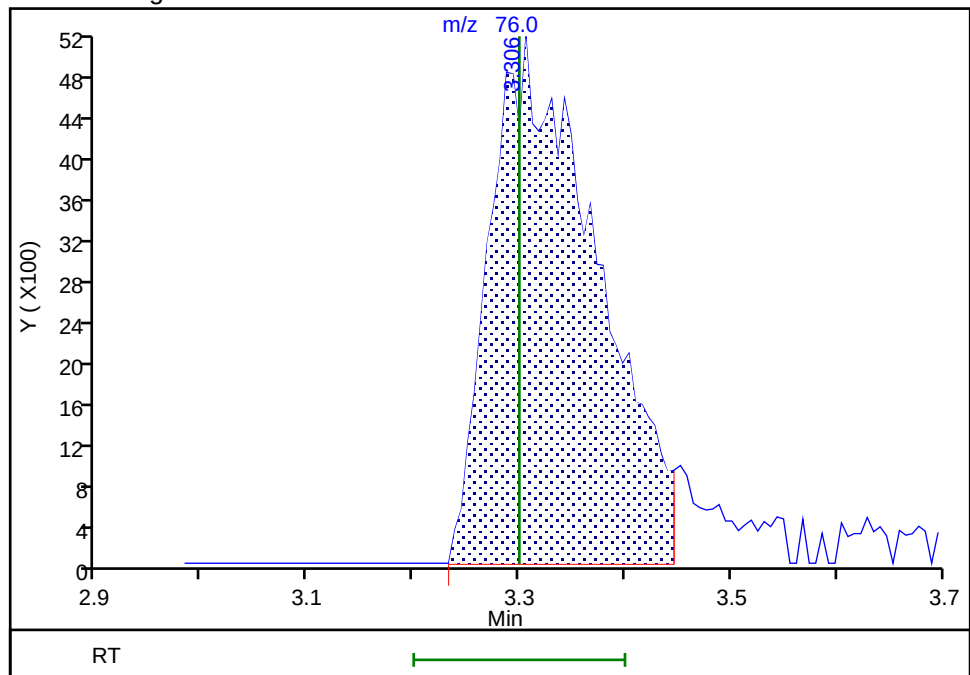
RT: 3.29
Area: 11208
Amount: 0.085729
Amount Units: ug/l

Processing Integration Results



RT: 3.31
Area: 36414
Amount: 0.278527
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 02-Apr-2025 07:30:53 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.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-13

Matrix: Water

Lab File ID: GM31X26.D

Analysis Method: 8260D

Date Collected: 03/27/2025 08:00

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 08:12

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

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	13		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	0.78		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	^c cn	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	0.21	J cn	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	2.7		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 Job No.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-QC1-0/1-1 Lab Sample ID: 410-214590-13

Matrix: Water Lab File ID: GM31X26.D

Analysis Method: 8260D Date Collected: 03/27/2025 08:00

Sample wt/vol: 25 (mL) Date Analyzed: 04/01/2025 08:12

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.: 624273 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 16334

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	5.4		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)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	87		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X26.D
 Lims ID: 410-214590-A-13
 Client ID: HD-QC1-0/1-1
 Sample Type: Client
 Inject. Date: 01-Apr-2025 08:12:30 ALS Bottle#: 26 Worklist Smp#: 27
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-027
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 02-Apr-2025 07:27:28 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:27:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.885				ND	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.276				ND	
10 Chloroethane	64		2.318				ND	7
18 1,1-Dichloroethene	96	3.026	3.038	-0.012	96	25667	0.7763	
19 Acetone	43		3.068				ND	
24 Carbon disulfide	76	3.312	3.300	0.012	99	25894	0.2136	M
29 Methylene Chloride	84		3.592				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.623	3.617	0.006	22	54704	50.0	
33 Methyl tert-butyl ether	73		3.946				ND	7
34 trans-1,2-Dichloroethene	96	3.964	3.946	0.018	1	1767	0.0455	Ma
37 1,1-Dichloroethane	63	4.568	4.574	-0.006	96	148061	2.10	
41 2-Butanone (MEK)	43		5.421				ND	
42 cis-1,2-Dichloroethene	96	5.427	5.433	-0.006	77	115059	2.71	
49 Chlorobromomethane	128		5.775				ND	
51 Chloroform	83	5.940	5.933	0.007	89	12807	0.1854	
\$ 52 Dibromofluoromethane (Surr)	113	6.147	6.153	-0.006	92	369385	10.7	
53 1,1,1-Trichloroethane	97	6.153	6.159	-0.006	98	817677	13.4	
55 Carbon tetrachloride	117		6.372				ND	7
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.604	6.616	-0.012	65	64073	9.71	
60 Benzene	78		6.641				ND	
61 1,2-Dichloroethane	62		6.714				ND	
* 64 Fluorobenzene (IS)	96	7.055	7.061	-0.006	99	1465932	10.0	
68 Trichloroethene	95	7.543	7.549	-0.006	99	226364	5.41	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.238				ND	
81 cis-1,3-Dichloropropene	75		8.805				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012				ND	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1425811	8.70	
84 Toluene	92	9.226	9.225	0.001	1	3011	0.0264	
85 trans-1,3-Dichloropropene	75		9.524				ND	
107 1,1,2-Trichloroethane	97		9.738				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	9.823	9.823	0.000	96	9695117	188.7	E
110 2-Hexanone	43		9.981				ND	
112 Chlorodibromomethane	129		10.134				ND	
113 Ethylene Dibromide	107		10.237				ND	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	85	1181353	10.0	
116 Chlorobenzene	112		10.725				ND	
117 1,1,1,2-Tetrachloroethane	131		10.817				ND	
118 Ethylbenzene	91		10.823				ND	7
120 m-Xylene & p-Xylene	106		10.945				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
121 o-Xylene	106		11.280				ND	
122 Styrene	104		11.298				ND	
123 Bromoform	173		11.451				ND	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	89	526742	9.30	
128 1,1,2,2-Tetrachloroethane	83		11.841				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	95	603798	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Report Date: 02-Apr-2025 07:27:28

Chrom Revision: 2.3 21-Mar-2025 14:03:38

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X26.D

Injection Date: 01-Apr-2025 08:12:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-A-13

Lab Sample ID: 410-214590-13

Worklist Smp#: 27

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

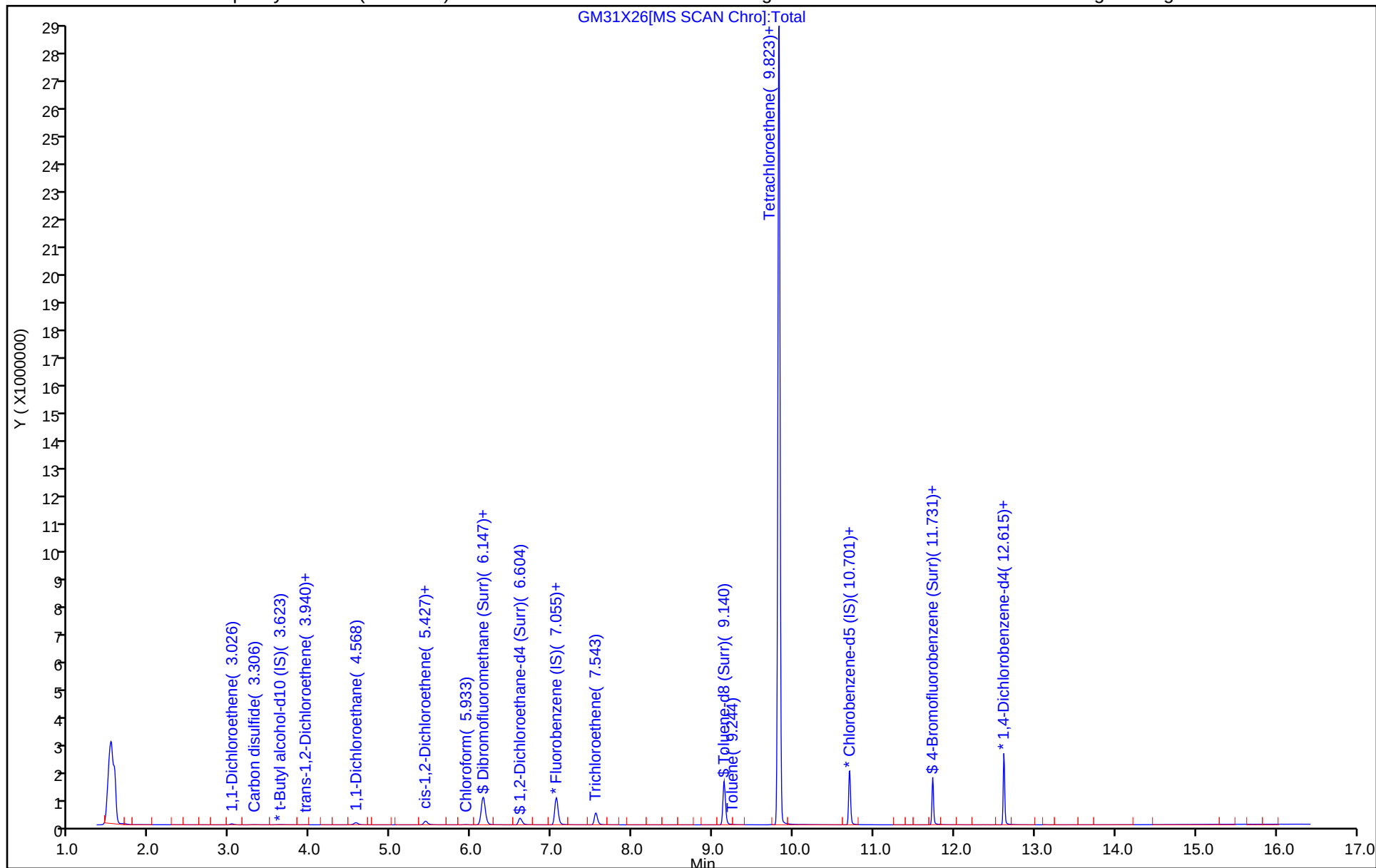
ALS Bottle#: 26

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X26.D
Lims ID: 410-214590-A-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 01-Apr-2025 08:12:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-027
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 02-Apr-2025 07:27:28 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:27:28

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.7	106.80
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.71	97.10
\$ 83 Toluene-d8 (Surr)	10.0	8.70	86.95
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.30	93.02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X26.D

Injection Date: 01-Apr-2025 08:12:30

Instrument ID: 16334

Lims ID: 410-214590-A-13

Lab Sample ID: 410-214590-13

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

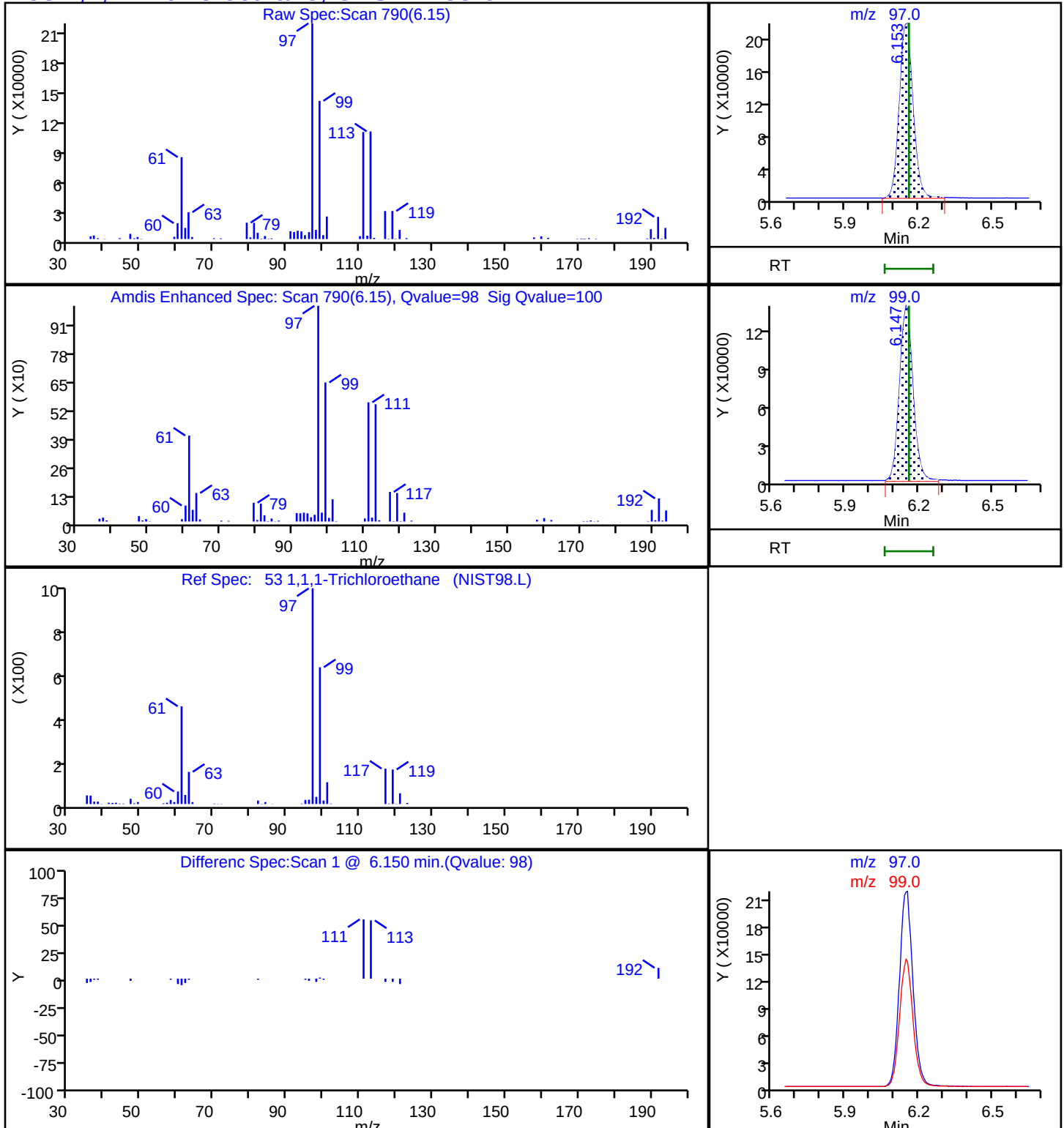
Dil. Factor: 1.0000

Method: MSV_16334_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\16334\20250331-142555.b\GM31X26.D

Injection Date: 01-Apr-2025 08:12:30

Instrument ID: 16334

Lims ID: 410-214590-A-13

Lab Sample ID: 410-214590-13

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

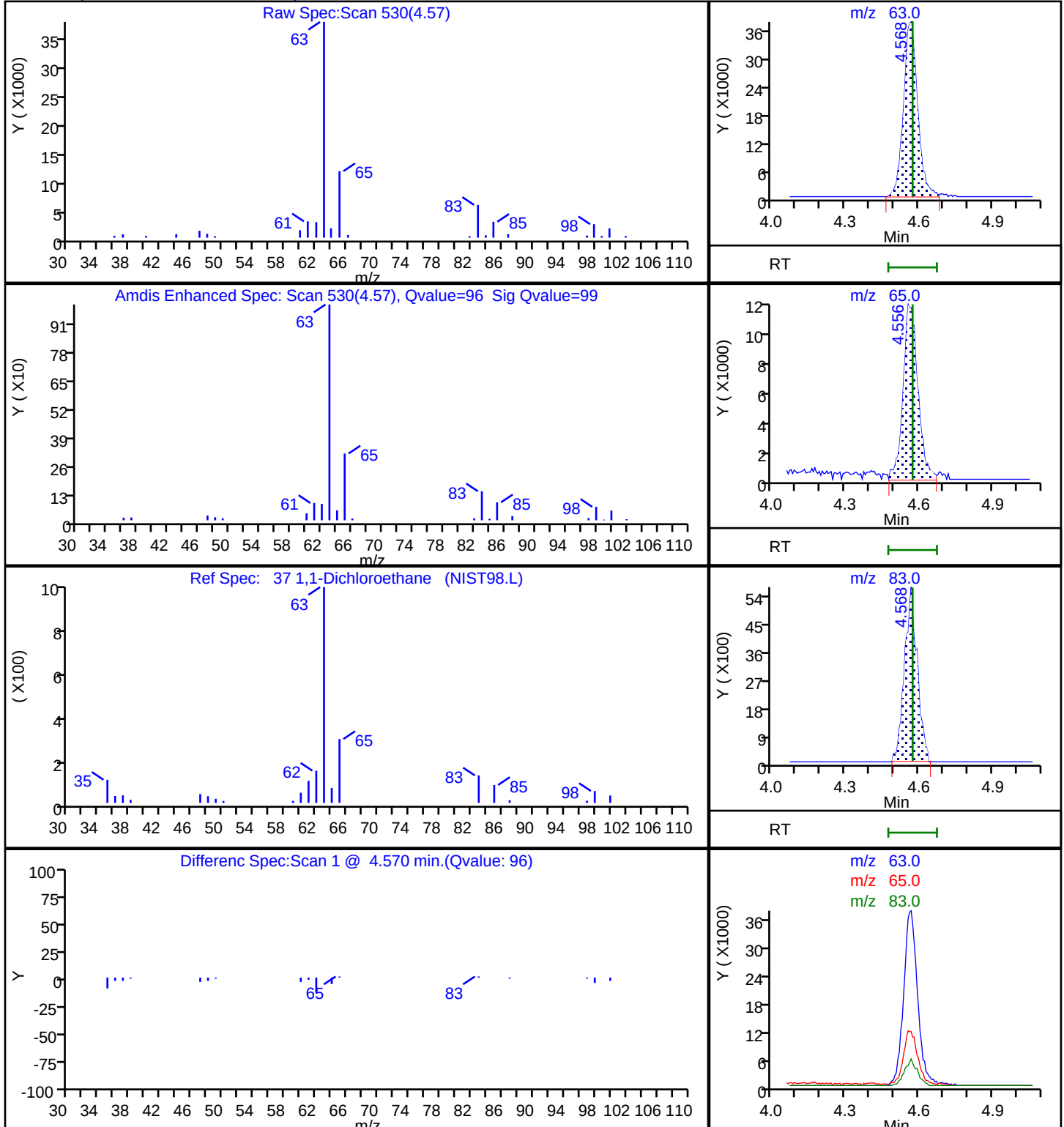
Dil. Factor: 1.0000

Method: MSV_16334_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

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X26.D

Injection Date: 01-Apr-2025 08:12:30

Instrument ID: 16334

Lims ID: 410-214590-A-13

Lab Sample ID: 410-214590-13

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

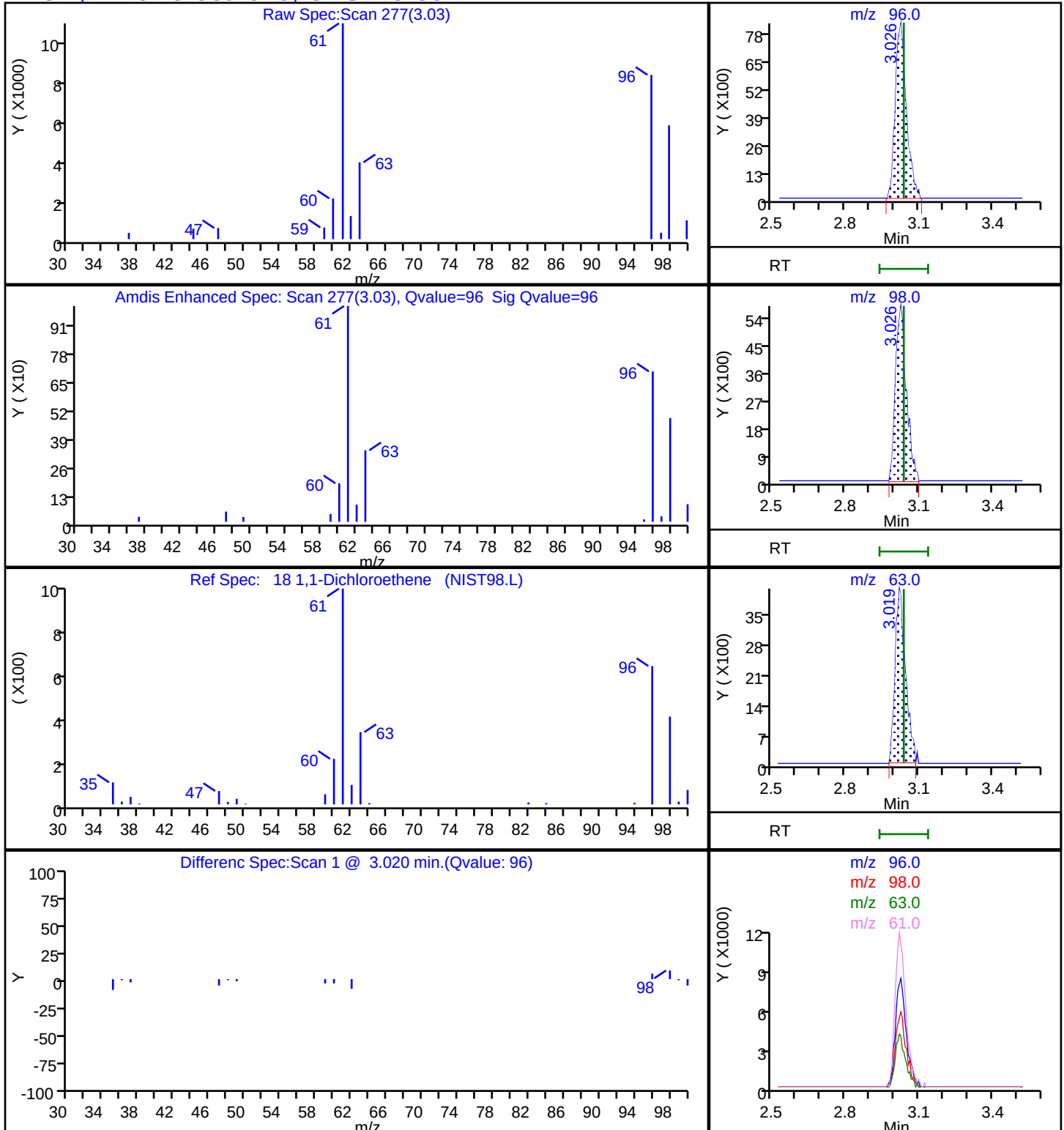
Dil. Factor: 1.0000

Method: MSV_16334_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\16334\20250331-142555.b\GM31X26.D

Injection Date: 01-Apr-2025 08:12:30

Instrument ID: 16334

Lims ID: 410-214590-A-13

Lab Sample ID: 410-214590-13

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

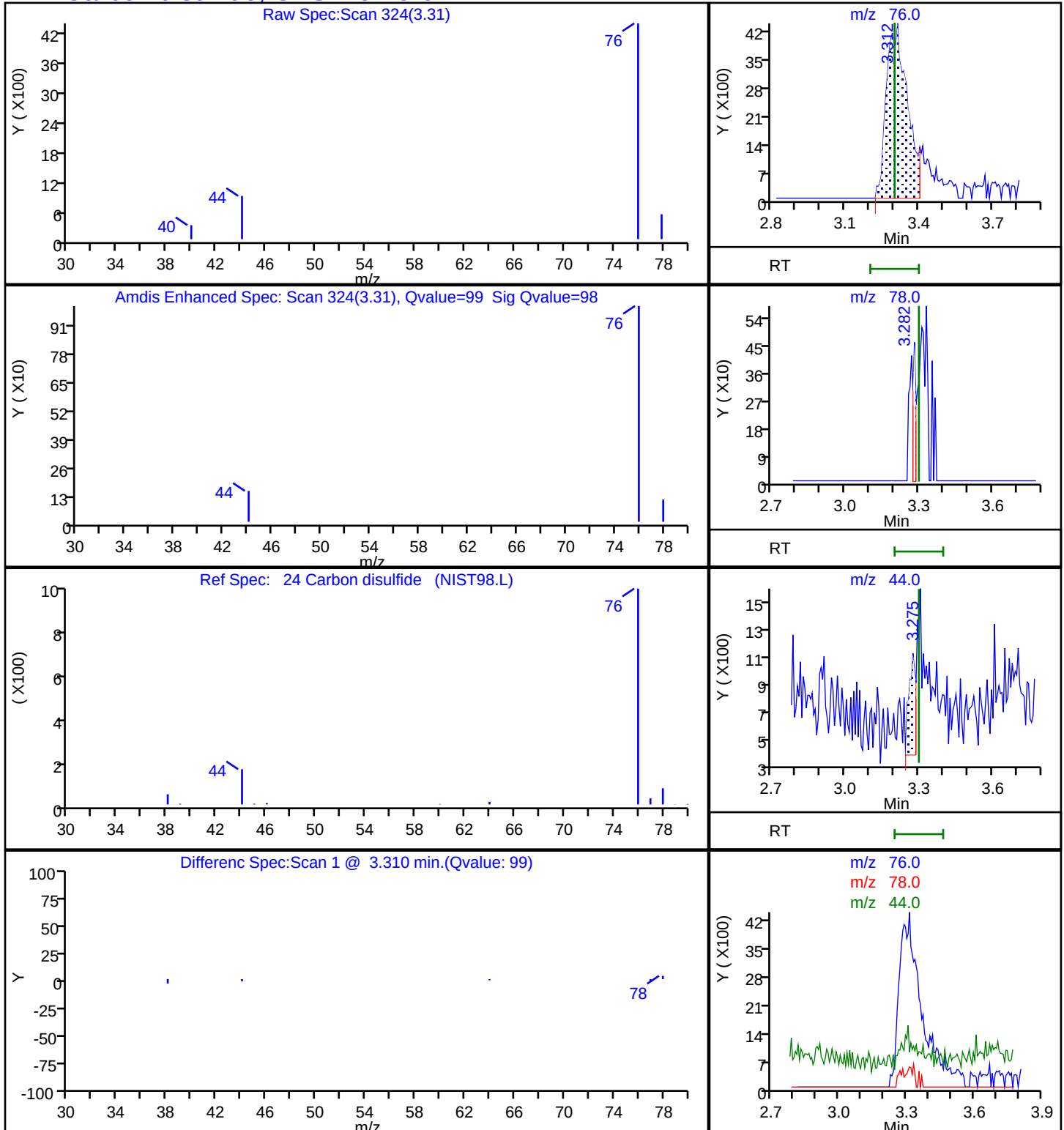
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

24 Carbon disulfide, CAS: 75-15-0

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X26.D

Injection Date: 01-Apr-2025 08:12:30

Instrument ID: 16334

Lims ID: 410-214590-A-13

Lab Sample ID: 410-214590-13

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

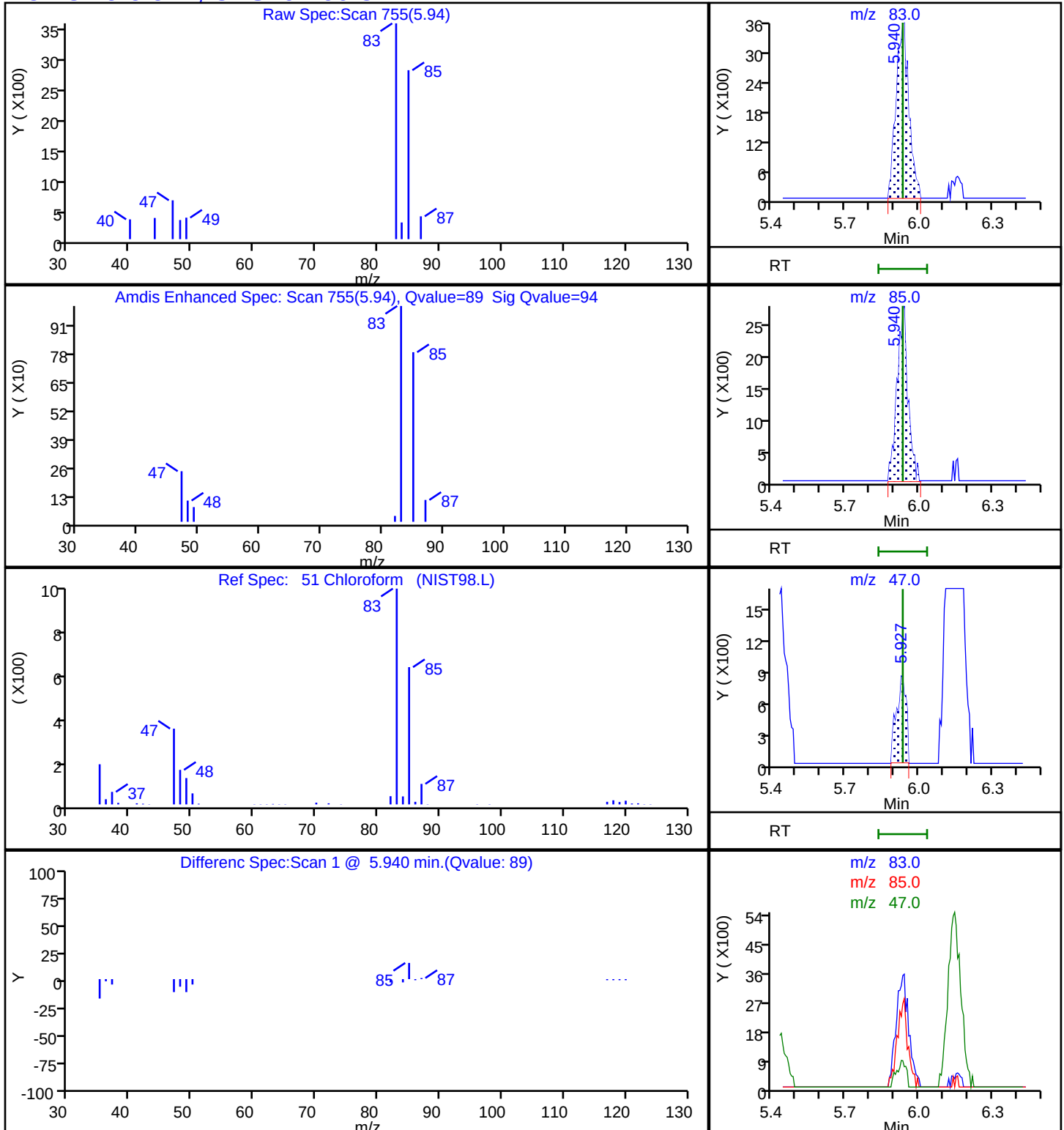
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

51 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X26.D

Injection Date: 01-Apr-2025 08:12:30

Instrument ID: 16334

Lims ID: 410-214590-A-13

Lab Sample ID: 410-214590-13

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

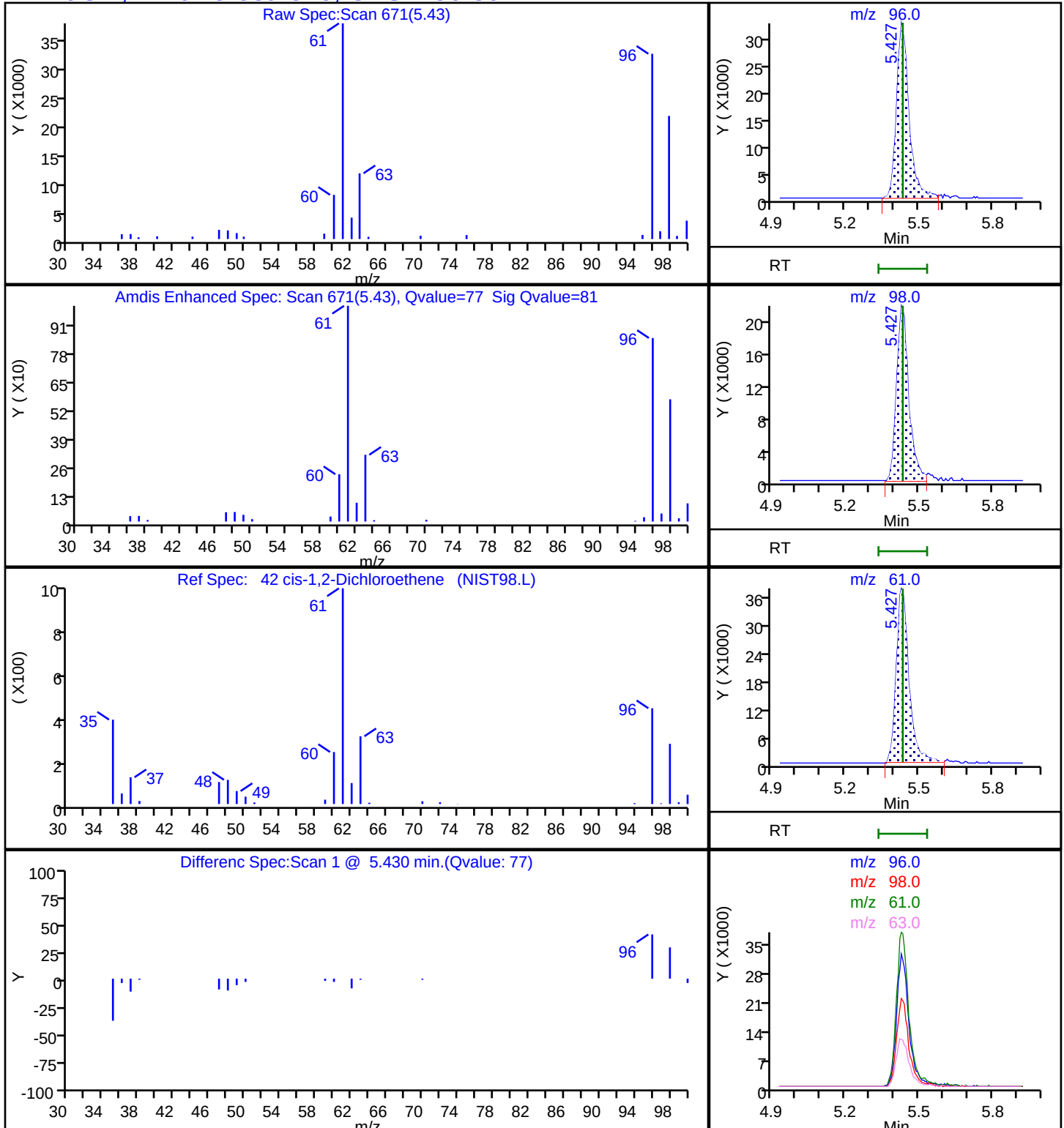
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X26.D

Injection Date: 01-Apr-2025 08:12:30

Instrument ID: 16334

Lims ID: 410-214590-A-13

Lab Sample ID: 410-214590-13

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

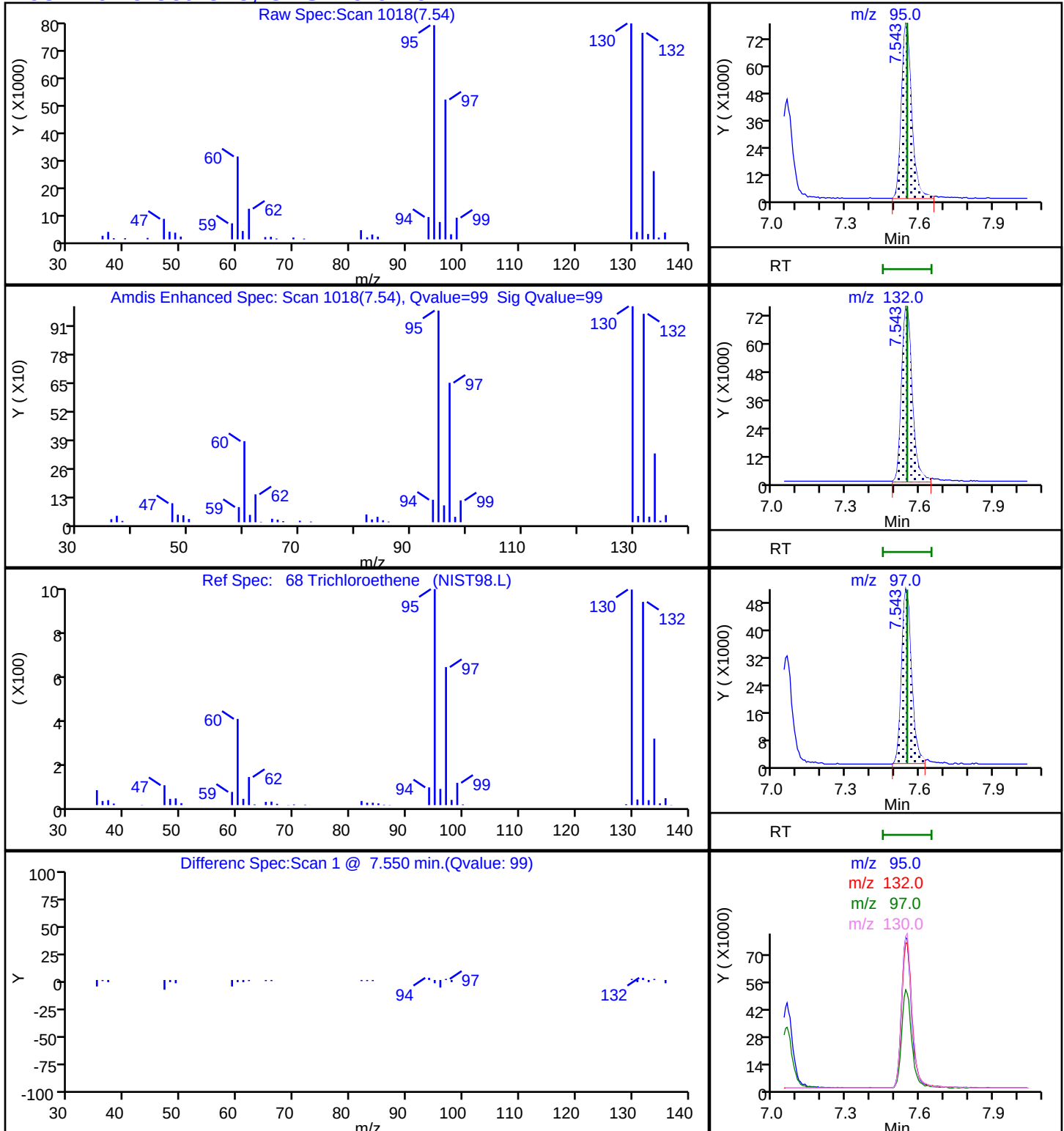
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

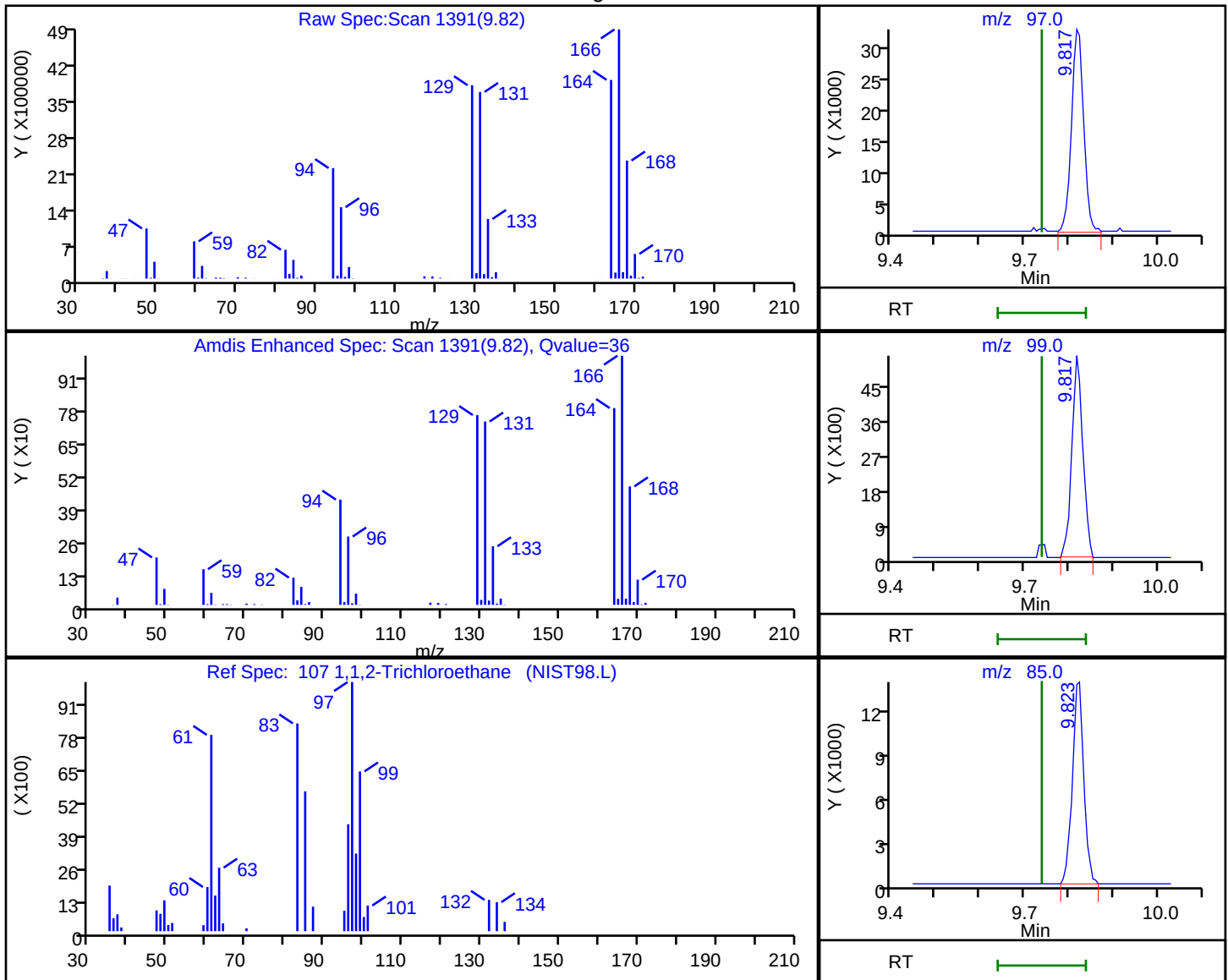
68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X26.D
Injection Date: 01-Apr-2025 08:12:30 Instrument ID: 16334
Lims ID: 410-214590-A-13 Lab Sample ID: 410-214590-13
Client ID: HD-QC1-0/1-1
Operator ID: gaw91131 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

107 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
9.82	97.00	62096	2.361693
9.82	99.00	9028	
9.82	85.00	24150	
9.82	83.00	168957	

Reviewer: FQ4L, 02-Apr-2025 07:27:15 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

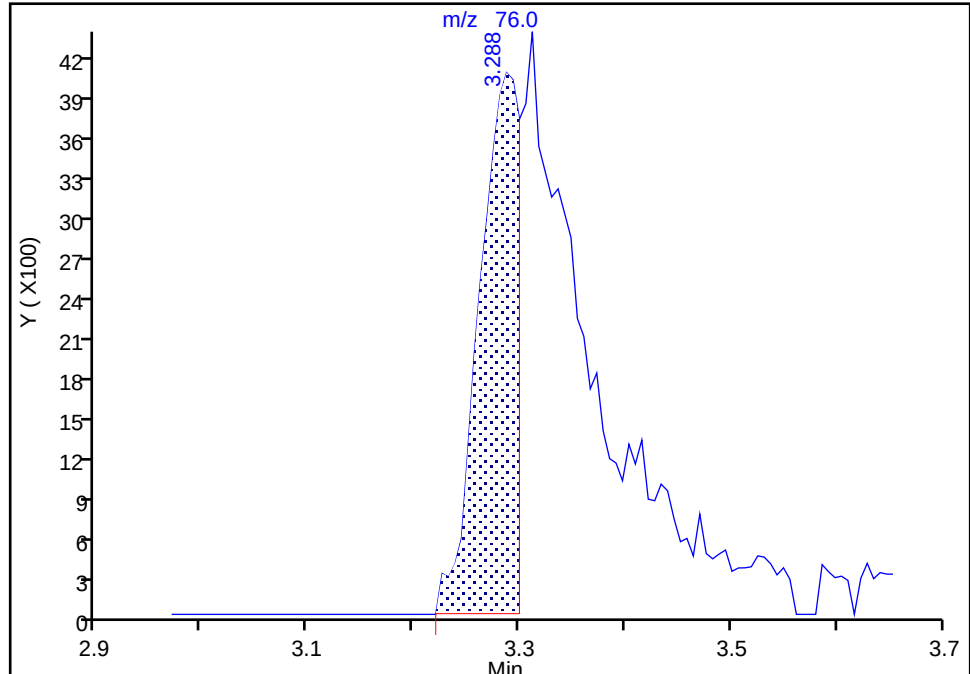
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X26.D
Injection Date: 01-Apr-2025 08:12:30 Instrument ID: 16334
Lims ID: 410-214590-A-13 Lab Sample ID: 410-214590-13
Client ID: HD-QC1-0/1-1
Operator ID: gaw91131 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

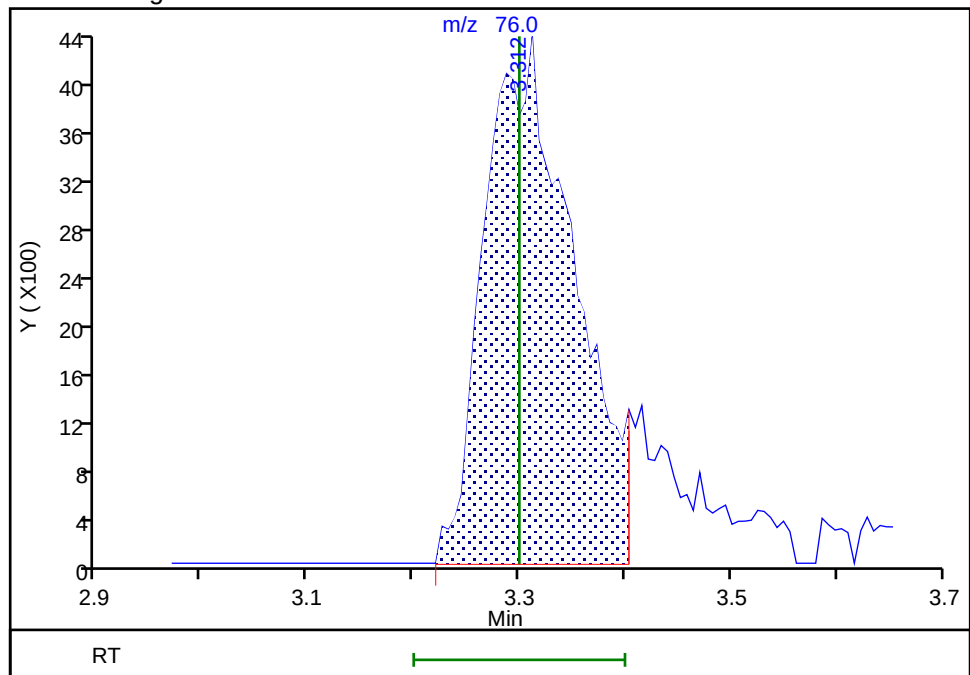
RT: 3.29
Area: 10836
Amount: 0.089403
Amount Units: ug/l

Processing Integration Results



RT: 3.31
Area: 25894
Amount: 0.213640
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 02-Apr-2025 07:23:07 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

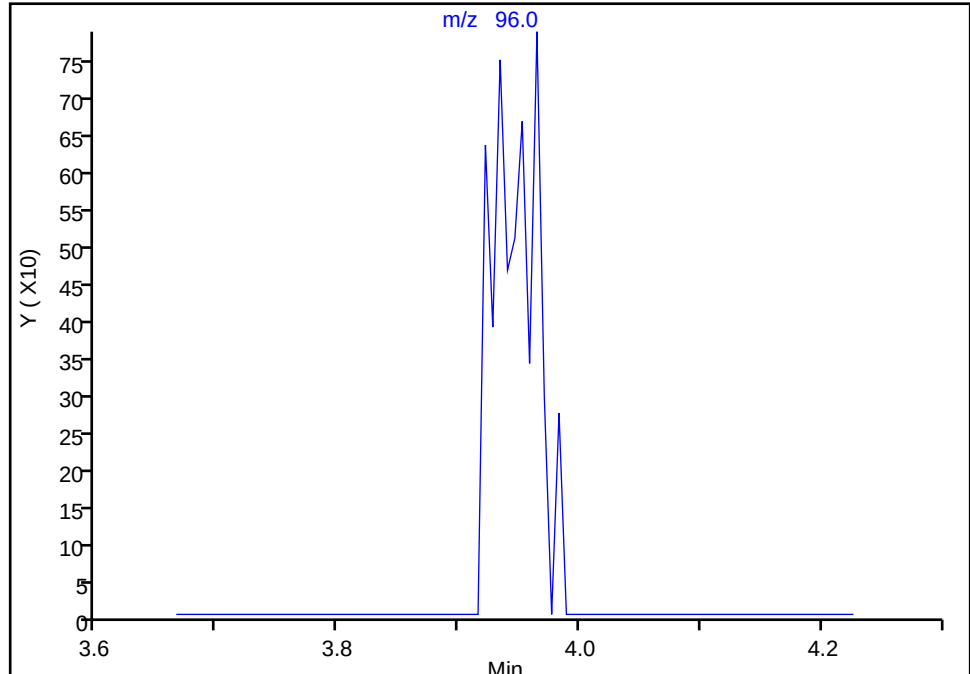
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X26.D
Injection Date: 01-Apr-2025 08:12:30 Instrument ID: 16334
Lims ID: 410-214590-A-13 Lab Sample ID: 410-214590-13
Client ID: HD-QC1-0/1-1
Operator ID: gaw91131 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

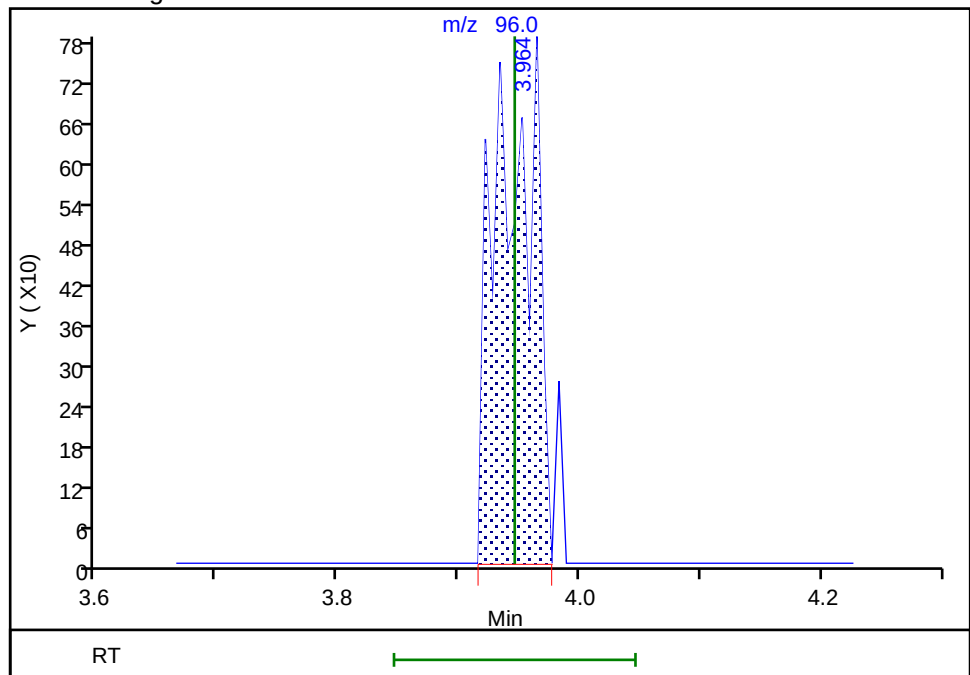
Not Detected
Expected RT: 3.95

Processing Integration Results



RT: 3.96
Area: 1767
Amount: 0.045487
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 02-Apr-2025 07:26:49 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.: 410-214590-1

SDG No. :

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

Lab Sample ID: 410-214590-13 DL

Matrix: Water

Lab File ID: GM31X27.D

Analysis Method: 8260D

Date Collected: 03/27/2025 08:00

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 08:34

Soil Aliquot Vol:

Dilution Factor: 20

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	180		10	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	91		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X27.D
 Lims ID: 410-214590-B-13 DL
 Client ID: HD-QC1-0/1-1
 Sample Type: Client
 Inject. Date: 01-Apr-2025 08:34:30 ALS Bottle#: 27 Worklist Smp#: 28
 Purge Vol: 25.000 mL Dil. Factor: 20.0000
 Sample Info: 410-0142555-028
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 02-Apr-2025 07:22:45 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:22:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.885				ND	
6 Vinyl chloride	62		1.983				ND	
9 Bromomethane	94		2.276				ND	
10 Chloroethane	64		2.318				ND	
18 1,1-Dichloroethene	96	3.026	3.038	-0.012	1	773	0.0261	
19 Acetone	43		3.068				ND	
24 Carbon disulfide	76	3.300	3.300	0.000	97	18052	0.1665	M
29 Methylene Chloride	84		3.592				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.629	3.617	0.012	21	31442	50.0	
33 Methyl tert-butyl ether	73		3.946				ND	
34 trans-1,2-Dichloroethene	96		3.946				ND	
37 1,1-Dichloroethane	63	4.568	4.574	-0.006	1	4321	0.0686	a
41 2-Butanone (MEK)	43		5.421				ND	
42 cis-1,2-Dichloroethene	96	5.452	5.433	0.019	59	3668	0.0965	
49 Chlorobromomethane	128		5.775				ND	
51 Chloroform	83		5.933				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.153	6.153	0.000	93	311374	10.1	
53 1,1,1-Trichloroethane	97	6.159	6.159	0.000	40	32761	0.5991	
55 Carbon tetrachloride	117		6.372				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.616	-0.006	65	53910	9.14	
60 Benzene	78		6.641				ND	
61 1,2-Dichloroethane	62		6.714				ND	
* 64 Fluorobenzene (IS)	96	7.061	7.061	0.000	99	1311055	10.0	
68 Trichloroethene	95	7.561	7.549	0.012	96	9691	0.2591	a
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.238				ND	
81 cis-1,3-Dichloropropene	75		8.805				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012				ND	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1268476	9.13	
84 Toluene	92		9.225				ND	
85 trans-1,3-Dichloropropene	75		9.524				ND	
107 1,1,2-Trichloroethane	97		9.738				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	9.823	9.823	0.000	97	389257	8.95	
110 2-Hexanone	43		9.981				ND	
112 Chlorodibromomethane	129		10.134				ND	
113 Ethylene Dibromide	107		10.237				ND	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	85	1000576	10.0	
116 Chlorobenzene	112		10.725				ND	
117 1,1,1,2-Tetrachloroethane	131		10.817				ND	
118 Ethylbenzene	91		10.823				ND	
120 m-Xylene & p-Xylene	106		10.945				ND	
S 119 Xylenes, Total	106		11.245				ND	7
121 o-Xylene	106		11.280				ND	
122 Styrene	104		11.298				ND	
123 Bromoform	173		11.451				ND	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	89	449037	9.36	
128 1,1,2,2-Tetrachloroethane	83		11.841				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	95	519685	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Report Date: 02-Apr-2025 07:22:46

Chrom Revision: 2.3 21-Mar-2025 14:03:38

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X27.D

Injection Date: 01-Apr-2025 08:34:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-B-13 DL

Lab Sample ID: 410-214590-13

Worklist Smp#: 28

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

Purge Vol: 25.000 mL

Dil. Factor: 20.0000

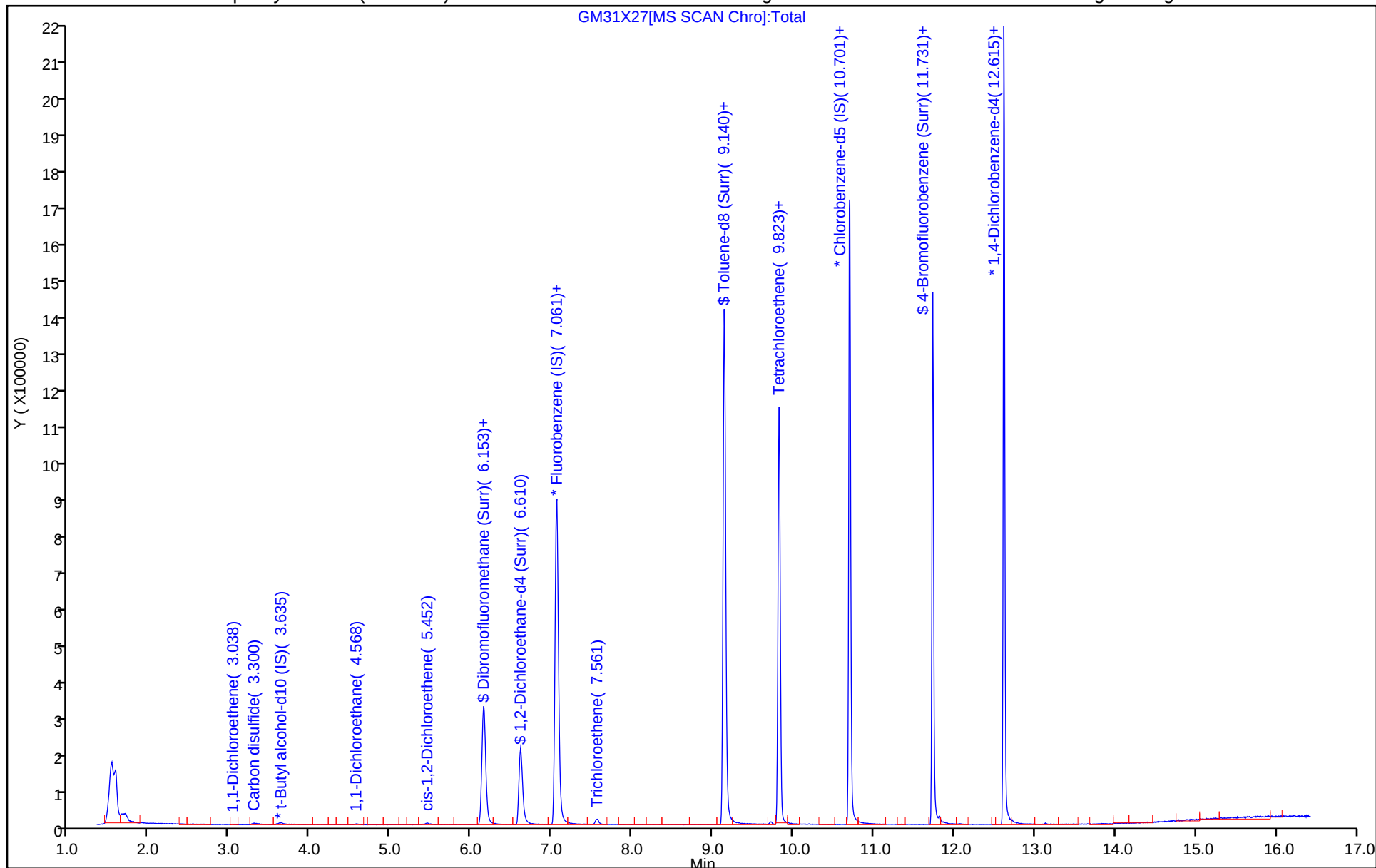
ALS Bottle#: 27

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X27.D
Lims ID: 410-214590-B-13 DL
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 01-Apr-2025 08:34:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 25.000 mL Dil. Factor: 20.0000
Sample Info: 410-0142555-028
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 02-Apr-2025 07:22:45 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:22:45

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.1	100.66
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.14	91.35
\$ 83 Toluene-d8 (Surr)	10.0	9.13	91.34
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.36	93.63

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X27.D

Injection Date: 01-Apr-2025 08:34:30

Instrument ID: 16334

Lims ID: 410-214590-B-13 DL

Lab Sample ID: 410-214590-13

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

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 25.000 mL

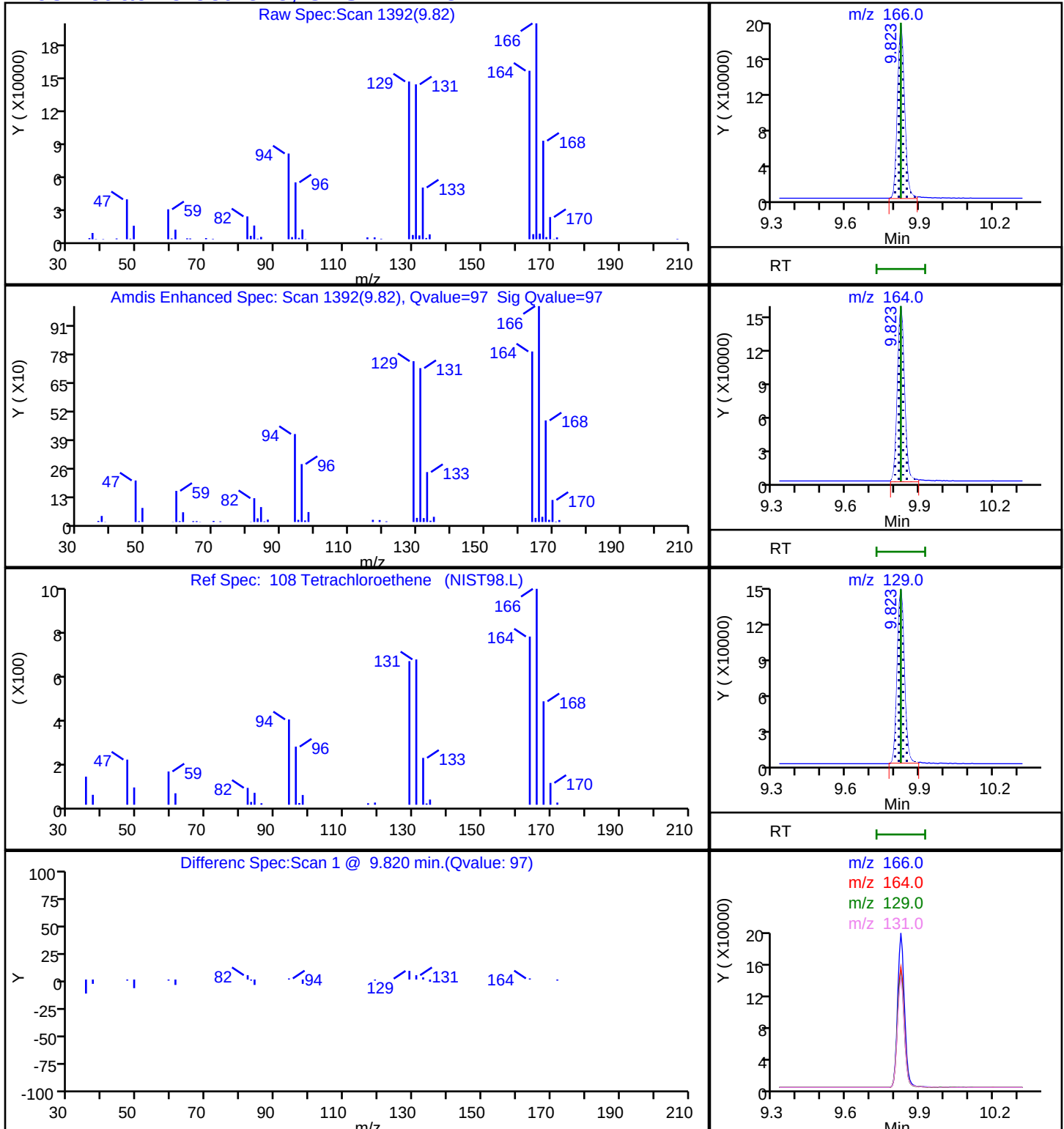
Dil. Factor: 20.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

108 Tetrachloroethene, CAS: 127-18-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-14

Matrix: Water

Lab File ID: GM31X06.D

Analysis Method: 8260D

Date Collected: 03/27/2025 00:00

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 00:50

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

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	^c cn	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	0.36	J cn	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.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-214590-14

Matrix: Water Lab File ID: GM31X06.D

Analysis Method: 8260D Date Collected: 03/27/2025 00:00

Sample wt/vol: 25 (mL) Date Analyzed: 04/01/2025 00:50

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.: 624273 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 16334

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)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	93		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X06.D
 Lims ID: 410-214590-A-14
 Client ID: HD-QC1-0/1-2
 Sample Type: Client
 Inject. Date: 01-Apr-2025 00:50:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-007
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Apr-2025 14:29:37 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1629

First Level Reviewer: QD9U

Date: 01-Apr-2025 14:29:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.885				ND	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.276				ND	
10 Chloroethane	64		2.318				ND	7
18 1,1-Dichloroethene	96		3.038				ND	
19 Acetone	43		3.068				ND	
24 Carbon disulfide	76	3.337	3.300	0.037	96	46078	0.3586	M
29 Methylene Chloride	84		3.592				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.654	3.617	0.037	22	57824	50.0	
33 Methyl tert-butyl ether	73		3.946				ND	
34 trans-1,2-Dichloroethene	96		3.946				ND	
37 1,1-Dichloroethane	63		4.574				ND	
41 2-Butanone (MEK)	43		5.421				ND	
42 cis-1,2-Dichloroethene	96		5.433				ND	
49 Chlorobromomethane	128		5.775				ND	
51 Chloroform	83		5.933				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.153	6.153	0.000	93	381791	10.4	
53 1,1,1-Trichloroethane	97		6.159				ND	
55 Carbon tetrachloride	117		6.372				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.616	-0.006	65	68944	9.86	
60 Benzene	78		6.641				ND	
61 1,2-Dichloroethane	62		6.714				ND	
* 64 Fluorobenzene (IS)	96	7.055	7.061	-0.006	99	1554040	10.0	
68 Trichloroethene	95		7.549				ND	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.238				ND	
81 cis-1,3-Dichloropropene	75		8.805				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012				ND	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1521589	9.35	
84 Toluene	92		9.225				ND	
85 trans-1,3-Dichloropropene	75		9.524				ND	
107 1,1,2-Trichloroethane	97		9.738				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166		9.823				ND	
110 2-Hexanone	43		9.981				ND	
112 Chlorodibromomethane	129		10.134				ND	
113 Ethylene Dibromide	107		10.237				ND	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	85	1172553	10.0	
116 Chlorobenzene	112		10.725				ND	
117 1,1,1,2-Tetrachloroethane	131		10.817				ND	
118 Ethylbenzene	91		10.823				ND	
120 m-Xylene & p-Xylene	106		10.945				ND	
S 119 Xylenes, Total	106		11.245				ND	7
121 o-Xylene	106		11.280				ND	
122 Styrene	104		11.298				ND	
123 Bromoform	173		11.451				ND	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	89	544297	9.68	
128 1,1,2,2-Tetrachloroethane	83		11.841				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	95	625635	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X06.D

Injection Date: 01-Apr-2025 00:50:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-A-14

Lab Sample ID: 410-214590-14

Worklist Smp#: 7

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

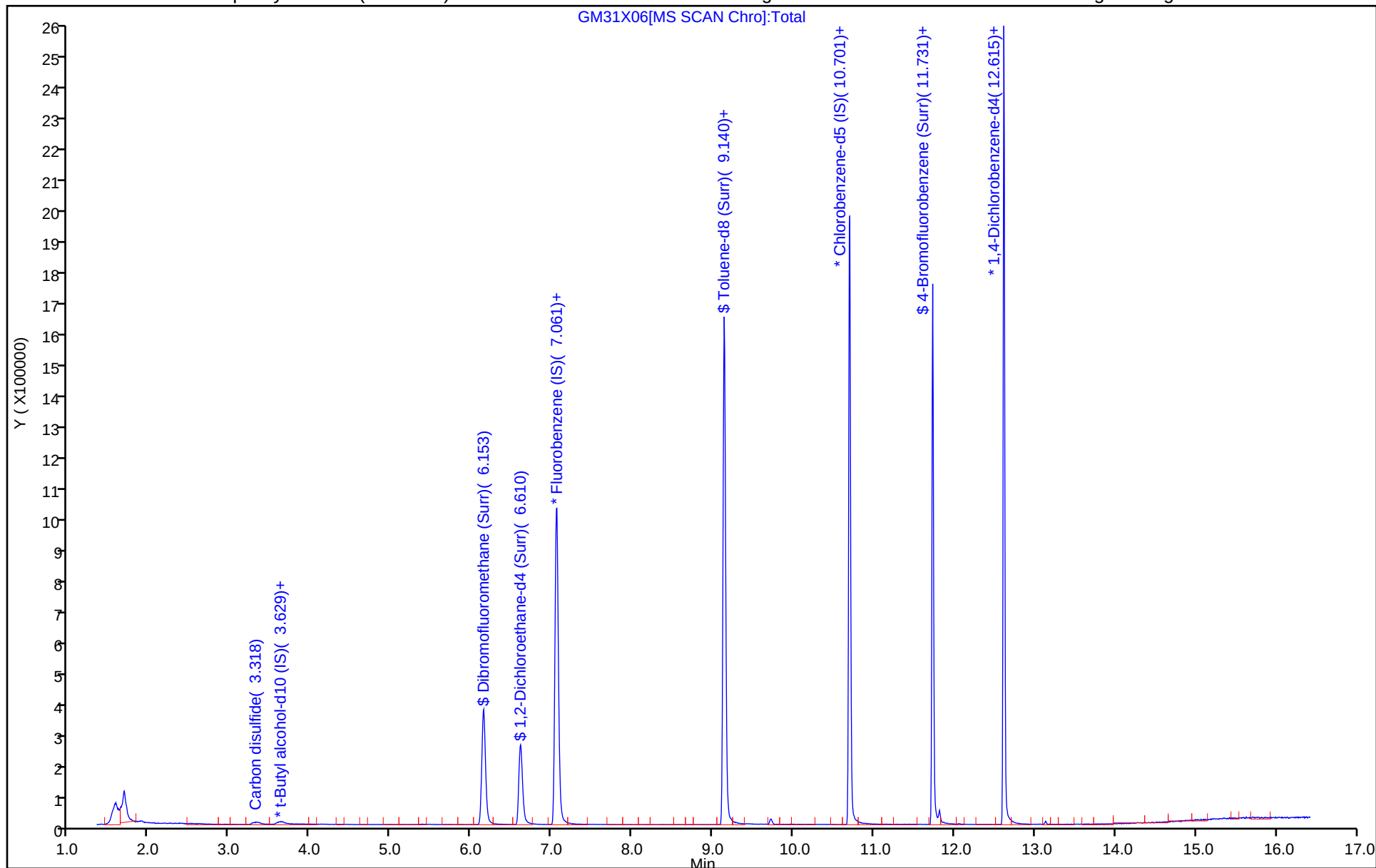
ALS Bottle#: 6

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X06.D
Lims ID: 410-214590-A-14
Client ID: HD-QC1-0/1-2
Sample Type: Client
Inject. Date: 01-Apr-2025 00:50:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-007
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Apr-2025 14:29:37 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: QD9U

Date: 01-Apr-2025 14:29:37

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.4	104.13
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.86	98.56
\$ 83 Toluene-d8 (Surr)	10.0	9.35	93.49
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.68	96.84

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X06.D

Injection Date: 01-Apr-2025 00:50:30

Instrument ID: 16334

Lims ID: 410-214590-A-14

Lab Sample ID: 410-214590-14

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

Operator ID: gaw91131

ALS Bottle#: 6

Worklist Smp#: 7

Purge Vol: 25.000 mL

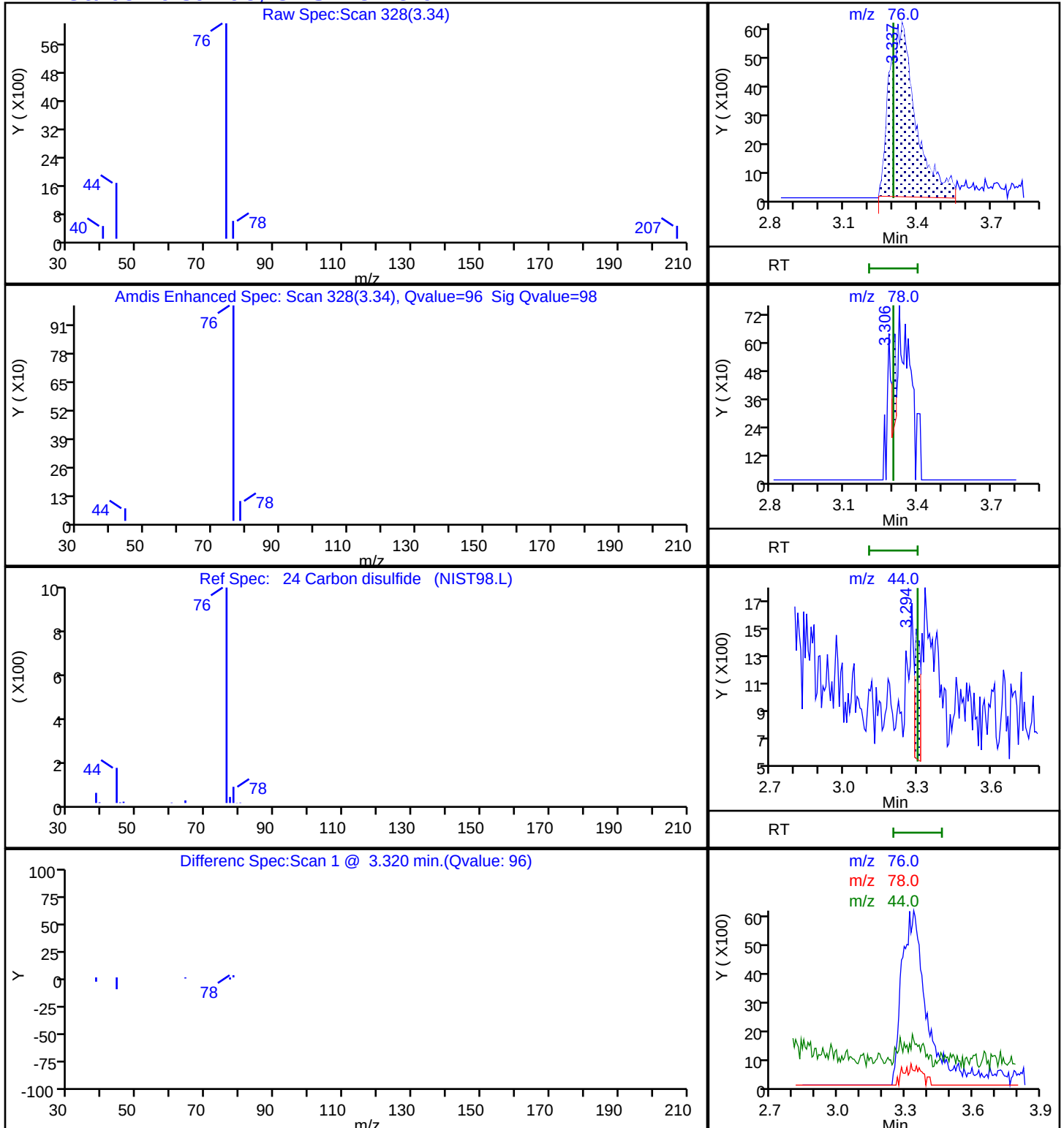
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

24 Carbon disulfide, CAS: 75-15-0

Eurofins Lancaster Laboratories Environment Testing, LLC

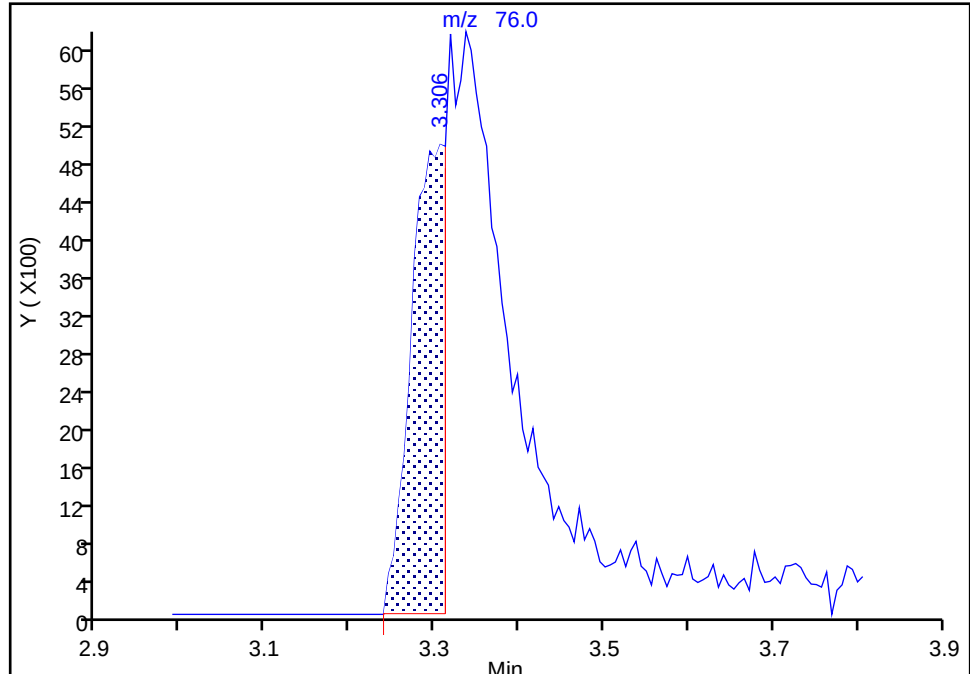
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X06.D
Injection Date: 01-Apr-2025 00:50:30 Instrument ID: 16334
Lims ID: 410-214590-A-14 Lab Sample ID: 410-214590-14
Client ID: HD-QC1-0/1-2
Operator ID: gaw91131 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

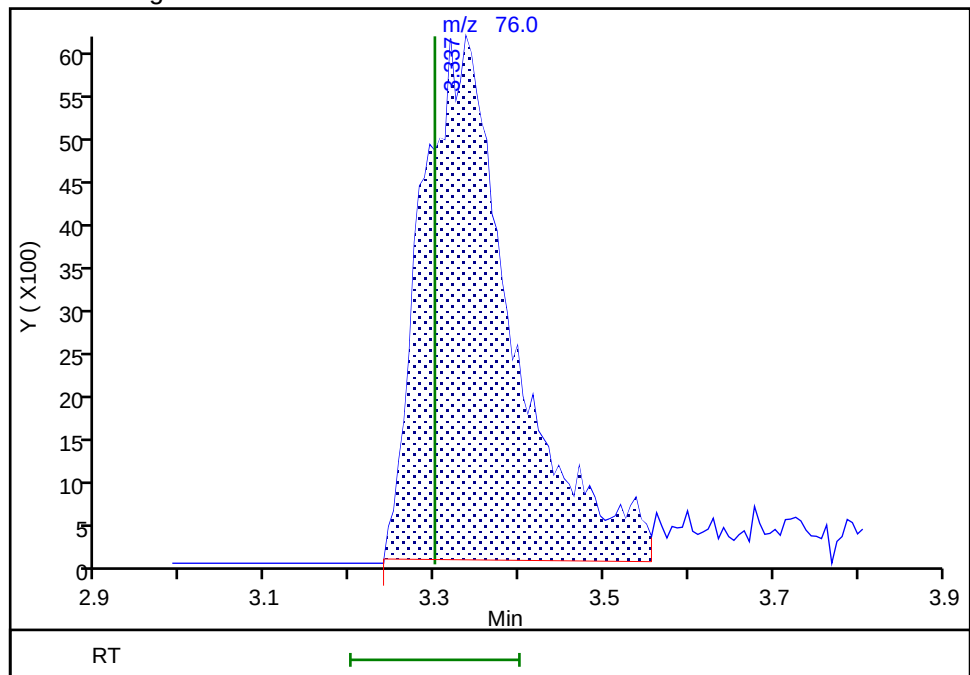
RT: 3.31
Area: 14137
Amount: 0.110025
Amount Units: ug/l

Processing Integration Results



RT: 3.34
Area: 46078
Amount: 0.358615
Amount Units: ug/l

Manual Integration Results



Reviewer: QD9U, 01-Apr-2025 14:29:19 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1 Analy Batch No.: 70996
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-70996/9	GN30I07.D
Level 2	IC 410-70996/8	GN30I06.D
Level 3	IC 410-70996/7	GN30I05.D
Level 4	IC 410-70996/6	GN30I04.D
Level 5	IC 410-70996/5	GN30I03.D
Level 6	ICIS 410-70996/4	GN30I02.D
Level 7	IC 410-70996/3	GN30I01.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	0.2368 0.2560	0.2662 0.2659	0.2678	0.2708	0.2566	Ave		0.260 0			0.1000	4.5		20.0			
Chloromethane	0.3865 0.3323	0.3740 0.3289	0.3543	0.3488	0.3310	Ave		0.350 8			0.1000	6.4		20.0			
1,3-Butadiene	0.4818 0.3395	0.4668 0.3285	0.4287	0.3894	0.3604	Ave		0.399 3				15.3		20.0			
Vinyl chloride	0.3159 0.2911	0.3084 0.2925	0.2956	0.3035	0.2894	Ave		0.299 5			0.1000	3.3		20.0			
Bromomethane	0.2376 0.1945	0.2188 0.1939	0.2080	0.2091	0.1990	Ave		0.208 7			0.1000	7.5		20.0			
Chloroethane	0.2020 0.1743	0.1888 0.1718	0.1750	0.1835	0.1765	Ave		0.181 7			0.1000	5.9		20.0			
Dichlorofluoromethane	0.5017 0.3781	0.4250 0.3736	0.3878	0.4005	0.3845	Ave		0.407 3			0.1000	11.1		20.0			
Trichlorofluoromethane	0.3322 0.3378	0.3520 0.3476	0.3344	0.3624	0.3462	Ave		0.344 7			0.1000	3.1		20.0			
Ethyl ether	0.2029 0.1968	0.2094 0.1981	0.2105	0.2104	0.1960	Ave		0.203 5				3.3		20.0			
Freon 123a	0.3029 0.2615	0.2910 0.2660	0.2966	0.2824	0.2714	Ave		0.281 7				5.7		20.0			
Acrolein	1.9448 1.9018	1.8610 1.9961	1.8171	1.8798	1.8832	Ave		1.897 7				3.1		20.0			
1,1-Dichloroethene	0.2138 0.1990	0.2180 0.2009	0.2178	0.2053	0.2034	Ave		0.208 3			0.1000	3.9		20.0			
Freon 113	0.1453 0.2066	0.1948 0.2157	0.2243	0.2201	0.2189	Ave		0.203 7			0.1000	13.5		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.: 410-214590-1 Analy Batch No.: 70996
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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								
Acetone	3.1858 2.2113	2.5645 2.3024	2.4764	2.2168	2.2161	Ave		2.453 3			0.1000	14.3		20.0			
Methyl iodide	0.3770 0.3811	0.3974 0.3816	0.4099	0.3934	0.3832	Ave		0.389 1				3.0		20.0			
Ethyl bromide	0.1742 0.1747	0.1933 0.1753	0.1878	0.1846	0.1801	Ave		0.181 4				4.1		20.0			
Carbon disulfide	0.7515 0.7551	0.7679 0.7566	0.8070	0.7768	0.7599	Ave		0.767 8			0.1000	2.5		20.0			
Methyl acetate	9.1363 6.5621	6.6209 7.7655	7.2886	7.4783	7.1352	Ave		7.426 7			0.1000	11.7		20.0			
Allyl chloride	0.4283 0.3873	0.4623 0.3893	0.4373	0.4145	0.3988	Ave		0.416 8				6.6		20.0			
Methylene Chloride	0.2382 0.2321	0.2393 0.2332	0.2491	0.2445	0.2344	Ave		0.238 7			0.1000	2.6		20.0			
t-Butyl alcohol	0.8497 0.8680	0.9516 0.8650	0.9723	0.8999	0.8866	Ave		0.899 0				5.1		20.0			
Acrylonitrile	2.9586 3.1288	3.2748 3.2919	3.2521	3.0729	3.2367	Ave		3.173 7				3.9		20.0			
Methyl tertiary butyl ether	0.6635 0.6373	0.6694 0.6386	0.7123	0.6690	0.6442	Ave		0.662 0			0.1000	4.0		20.0			
trans-1,2-Dichloroethene	0.2376 0.2326	0.2463 0.2334	0.2519	0.2445	0.2326	Ave		0.239 8			0.1000	3.2		20.0			
n-Hexane	0.2867 0.3432	0.3264 0.3700	0.3750	0.3768	0.3699	Ave		0.349 7				9.6		20.0			
1,1-Dichloroethane	0.4270 0.4403	0.4431 0.4420	0.4771	0.4497	0.4365	Ave		0.445 1			0.2000	3.5		20.0			
di-Isopropyl ether	0.9062 0.8812	0.9128 0.8785	0.9662	0.9125	0.8808	Ave		0.905 5				3.4		20.0			
2-Chloro-1,3-butadiene	0.4041 0.3919	0.4061 0.3944	0.4315	0.4085	0.3968	Ave		0.404 8				3.3		20.0			
Ethyl t-butyl ether	0.8224 0.8052	0.8413 0.8030	0.8728	0.8231	0.8119	Ave		0.825 7				3.0		20.0			
2-Butanone	4.6520 4.4491	4.5519 4.6499	4.6329	4.3702	4.5180	Ave		4.546 3			0.1000	2.4		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.: 410-214590-1 Analy Batch No.: 70996
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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	0.2564 0.2641	0.2759 0.2643	0.2878	0.2732	0.2633	Ave		0.269 3			0.1000	3.9		20.0			
2,2-Dichloropropane	0.3736 0.3604	0.3790 0.3665	0.3915	0.3759	0.3663	Ave		0.373 3				2.7		20.0			
Propionitrile	1.0088 1.1203	1.1684 1.1561	1.2108	1.1154	1.1088	Ave		1.126 9				5.6		20.0			
Methacrylonitrile	4.4091 4.1503	3.9459 4.3367	4.1583	4.0671	4.1803	Ave		4.178 2				3.7		20.0			
Bromochloromethane	0.1217 0.1146	0.1254 0.1158	0.1267	0.1186	0.1174	Ave		0.120 0				3.9		20.0			
Tetrahydrofuran	1.2005 1.1636	1.1159 1.2081	1.2163	1.1464	1.1769	Ave		1.175 4				3.1		20.0			
Chloroform	0.4241 0.4162	0.4361 0.4174	0.4553	0.4333	0.4198	Ave		0.428 9			0.2000	3.2		20.0			
1,1,1-Trichloroethane	0.3679 0.3542	0.3769 0.3595	0.3870	0.3679	0.3559	Ave		0.367 0			0.1000	3.2		20.0			
Cyclohexane	0.3420 0.4161	0.4199 0.4367	0.4573	0.4449	0.4360	Ave		0.421 8			0.1000	9.0		20.0			
Carbon tetrachloride	0.3123 0.3112	0.3148 0.3194	0.3396	0.3190	0.3115	Ave		0.318 3			0.1000	3.1		20.0			
1,1-Dichloropropene	0.3441 0.3339	0.3429 0.3430	0.3610	0.3520	0.3373	Ave		0.344 9				2.6		20.0			
Isobutyl alcohol	0.0068 0.0052	0.0054 0.0052	0.0061	0.0055	0.0053	Ave		0.005 7				10.6		20.0			
Benzene	1.0017 0.9873	1.0172 0.9996	1.0905	1.0301	0.9893	Ave		1.016 5			0.5000	3.5		20.0			
1,2-Dichloroethane	0.3204 0.2618	0.2980 0.2685	0.2976	0.2780	0.2656	Ave		0.284 3			0.1000	7.6		20.0			
t-Amyl methyl ether	0.7252 0.7069	0.7307 0.7066	0.7818	0.7345	0.7088	Ave		0.727 8				3.6		20.0			
n-Heptane	0.3399 0.3914	0.3695 0.4239	0.4108	0.4097	0.4167	Ave		0.394 5				7.7		20.0			
n-Butanol	0.3526 0.3142	0.3215 0.3224	0.3129	0.3182	0.3198	Ave		0.323 1				4.2		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.: 410-214590-1 Analy Batch No.: 70996
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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	0.2659 0.2521	0.2619 0.2540	0.2695	0.2633	0.2503	Ave		0.259 6			0.2000	2.9		20.0			
Methylcyclohexane	0.3576 0.3955	0.4154 0.4155	0.4132	0.4131	0.4113	Ave		0.403 1			0.1000	5.3		20.0			
1,2-Dichloropropane	0.2764 0.2646	0.2751 0.2634	0.2909	0.2701	0.2629	Ave		0.271 9			0.1000	3.7		20.0			
Methyl methacrylate	8.4555 8.4558	8.3239 8.9257	8.5022	8.3048	8.6057	Ave		8.510 5				2.5		20.0			
1,4-Dioxane	0.0338 0.0625	0.0557 0.0631	0.0575	0.0672	0.0625	Ave		0.057 5			0.0050	19.3		20.0			
Dibromomethane	0.1296 0.1226	0.1259 0.1239	0.1333	0.1251	0.1218	Ave		0.126 0				3.3		20.0			
Bromodichloromethane	0.3106 0.3144	0.3050 0.3189	0.3322	0.3171	0.3091	Ave		0.315 3			0.2000	2.8		20.0			
2-Nitropropane	2.4618 2.4156	2.2909 2.5645	2.4079	2.3139	2.4372	Ave		2.413 1				3.8		20.0			
1-Bromo-2-chloroethane	0.2841 0.2816	0.2990 0.2868	0.3037	0.2949	0.2904	Ave		0.291 5				2.8		20.0			
cis-1,3-Dichloropropene	0.3958 0.4012	0.4084 0.4132	0.4313	0.4116	0.4036	Ave		0.409 3			0.2000	2.8		20.0			
4-Methyl-2-pentanone	11.696 11.678	11.385 11.961	11.883	11.358	11.750	Ave		11.67 3			0.1000	2.0		20.0			
Toluene	0.8735 0.8410	0.8787 0.8422	0.9144	0.8681	0.8484	Ave		0.866 6			0.4000	3.0		20.0			
trans-1,3-Dichloropropene	0.4485 0.4678	0.4666 0.4735	0.4784	0.4703	0.4700	Ave		0.467 9			0.1000	2.0		20.0			
Ethyl methacrylate	0.4267 0.4178	0.4069 0.4096	0.4408	0.4285	0.4128	Ave		0.420 4				2.9		20.0			
1,1,2-Trichloroethane	0.2513 0.2433	0.2624 0.2439	0.2703	0.2532	0.2453	Ave		0.252 8			0.1000	4.0		20.0			
Tetrachloroethene	0.3630 0.3679	0.3860 0.3728	0.3919	0.3792	0.3711	Ave		0.376 0			0.2000	2.7		20.0			
1,3-Dichloropropane	0.4642 0.4402	0.4635 0.4417	0.4827	0.4548	0.4449	Ave		0.456 0				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.: 410-214590-1 Analy Batch No.: 70996
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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	8.4134 8.4221	8.0551 8.7386	8.3204	8.2560	8.5645	Ave		8.395 7			0.1000	2.6		20.0			
Dibromochloromethane	0.2790 0.3043	0.2850 0.3109	0.3146	0.3034	0.3016	Ave		0.299 8				4.4		20.0			
1,2-Dibromoethane	0.2472 0.2422	0.2457 0.2444	0.2626	0.2507	0.2443	Ave		0.248 2			0.1000	2.8		20.0			
1-Chlorohexane	0.5856 0.4836	0.5459 0.4876	0.5425	0.5056	0.4925	Ave		0.520 5				7.4		20.0			
Chlorobenzene	0.9694 0.9420	0.9847 0.9413	1.0084	0.9677	0.9436	Ave		0.965 3			0.5000	2.6		20.0			
1,1,1,2-Tetrachloroethane	0.3288 0.3431	0.3338 0.3450	0.3600	0.3479	0.3423	Ave		0.343 0				2.9		20.0			
Ethylbenzene	1.7755 1.6522	1.7215 1.6522	1.8045	1.7106	1.6703	Ave		1.712 4			0.1000	3.5		20.0			
m&p-Xylene	0.6303 0.6325	0.6463 0.6343	0.6858	0.6521	0.6362	Ave		0.645 3			0.1000	3.0		20.0			
o-Xylene	0.6524 0.6249	0.6497 0.6301	0.6620	0.6342	0.6268	Ave		0.640 0			0.3000	2.3		20.0			
Styrene	1.0833 1.0667	1.0941 1.0702	1.1441	1.1059	1.0699	Ave		1.090 6			0.3000	2.5		20.0			
Bromoform	0.1479 0.1859	0.1627 0.1929	0.1753	0.1784	0.1822	Ave		0.175 0			0.1000	8.7		20.0			
Isopropylbenzene	1.6857 1.6374	1.6628 1.6363	1.7542	1.6896	1.6520	Ave		1.674 0			0.1000	2.5		20.0			
1,1,2,2-Tetrachloroethane	0.5902 0.6232	0.6428 0.6177	0.6602	0.6428	0.6232	Ave		0.628 6			0.3000	3.6		20.0			
Bromobenzene	0.7516 0.7370	0.7538 0.7418	0.8074	0.7608	0.7302	Ave		0.754 7				3.4		20.0			
trans-1,4-Dichloro-2-butene	3.1378 3.9168	3.2490 4.2032	3.4681	3.5618	3.8283	Ave		3.623 6				10.5		20.0			
1,2,3-Trichloropropane	0.1468 0.1564	0.1683 0.1540	0.1787	0.1639	0.1534	Ave		0.160 2				6.7		20.0			
N-Propylbenzene	3.8085 3.6437	3.8314 3.6182	3.9342	3.8079	3.6943	Ave		3.762 6				3.0		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.: 410-214590-1 Analy Batch No.: 70996
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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	0.7437 0.7150	0.7306 0.7301	0.7906	0.7486	0.7213	Ave		0.740 n				3.4		20.0			
1,3,5-Trimethylbenzene	2.5579 2.6111	2.6772 2.6267	2.7986	2.6831	2.6274	Ave		2.654 6				2.9		20.0			
4-Chlorotoluene	0.7484 0.7495	0.8055 0.7555	0.8263	0.7661	0.7496	Ave		0.771 6				4.1		20.0			
tert-Butylbenzene	0.5660 0.5518	0.5860 0.5647	0.5833	0.5591	0.5570	Ave		0.566 8				2.3		20.0			
Pentachloroethane	0.4568 0.4818	0.4935 0.4984	0.5005	0.4929	0.4867	Ave		0.487 2				3.1		20.0			
1,2,4-Trimethylbenzene	2.7790 2.7142	2.7782 2.7275	2.9168	2.7763	2.7094	Ave		2.771 6				2.6		20.0			
sec-Butylbenzene	3.4820 3.3763	3.4174 3.4112	3.6235	3.4743	3.3895	Ave		3.453 5				2.5		20.0			
1,3-Dichlorobenzene	1.5196 1.4752	1.5457 1.5040	1.5950	1.5325	1.4802	Ave		1.521 8			0.6000	2.7		20.0			
p-Isopropyltoluene	2.9520 2.9374	3.0087 2.9748	3.1925	2.9847	2.9468	Ave		2.999 5				3.0		20.0			
1,4-Dichlorobenzene	1.5720 1.4942	1.5904 1.5102	1.6124	1.5600	1.5127	Ave		1.550 3			0.5000	2.9		20.0			
1,2,3-Trimethylbenzene	1.3165 1.1680	1.2574 1.1806	1.2686	1.2341	1.1796	Ave		1.229 3				4.5		20.0			
Benzyl chloride	0.2641 0.2717	0.2595 0.2754	0.2913	0.2698	0.2713	Ave		0.271 9				3.7		20.0			
n-Butylbenzene	1.5804 1.5475	1.6196 1.5630	1.6848	1.5860	1.5416	Ave		1.589 n				3.1		20.0			
1,2-Dichlorobenzene	1.4023 1.3754	1.4491 1.3831	1.5174	1.4370	1.3753	Ave		1.419 9			0.4000	3.7		20.0			
1,2-Dibromo-3-Chloropropane	0.0866 0.0921	0.0907 0.0929	0.1005	0.0897	0.0887	Ave		0.091 6			0.0500	4.9		20.0			
1,3,5-Trichlorobenzene	1.3005 1.2452	1.3075 1.2589	1.3317	1.2404	1.2438	Ave		1.275 4				2.9		20.0			
1,2,4-Trichlorobenzene	1.1627 1.1438	1.2549 1.1466	1.2199	1.1628	1.1368	Ave		1.175 4			0.2000	3.8		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.: 410-214590-1 Analy Batch No.: 70996
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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	0.5964 0.5566	0.6122 0.5730	0.5894	0.5543	0.5576	Ave		0.577 1				3.9		20.0			
Naphthalene	2.1901 2.0588	2.1833 2.0314	2.2888	2.1532	2.0650	Ave		2.138 7				4.3		20.0			
1,2,3-Trichlorobenzene	1.0554 1.0003	1.1043 0.9938	1.0851	1.0287	0.9943	Ave		1.037 4				4.4		20.0			
Dibromofluoromethane (Surr)	0.2387 0.2412	0.2434 0.2414	0.2438	0.2429	0.2428	Ave		0.242 0				0.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0510 0.0517	0.0510 0.0520	0.0519	0.0518	0.0511	Ave		0.051 5				0.9		20.0			
Toluene-d8 (Surr)	1.3449 1.3317	1.3345 1.3197	1.3349	1.3314	1.3421	Ave		1.334 2				0.6		20.0			
4-Bromofluorobenzene (Surr)	0.5151 0.5069	0.5107 0.5026	0.5115	0.5101	0.5089	Ave		0.509 4				0.8		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-70996/9	GN30I07.D
Level 2	IC 410-70996/8	GN30I06.D
Level 3	IC 410-70996/7	GN30I05.D
Level 4	IC 410-70996/6	GN30I04.D
Level 5	IC 410-70996/5	GN30I03.D
Level 6	ICIS 410-70996/4	GN30I02.D
Level 7	IC 410-70996/3	GN30I01.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	10440 575013	29137 1495396	59213	119710	285502	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	17041 746607	40943 1849975	78349	154159	368365	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	21243 762788	51097 1847653	94809	172137	400995	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	13930 653889	33758 1645533	65380	134133	322069	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	10477 437020	23952 1090646	46006	92413	221448	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	8907 391559	20672 966420	38699	81099	196409	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	22123 849408	46525 2101552	85751	177022	427842	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	14649 758912	38530 1955497	73951	160183	385200	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	8950 442210	22931 1114451	46571	93021	218165	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	13355 587407	31854 1496120	65601	124813	302034	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd1 0	Ave	71856 3539158	182229 8876973	365629	734398	1726399	10.0 500	25.0 1250	50.0	100	250
1,1-Dichloroethene	FB	Ave	9428 447046	23861 1129827	48163	90732	226327	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 113	FB	Ave	6407 464025	21323 1213458	49604	97294	243555	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd1 0	Ave	23541 823027	50222 2047683	99654	173204	406309	2.00 100	5.00 250	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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	16625 856231	43500 2146588	90654	173875	426388	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl bromide	FB	Ave	7681 392528	21157 986182	41519	81572	200380	0.200 10.00	0.500 25.0	1.000	2.00	5.00
Carbon disulfide	FB	Ave	33137 1696280	84062 4255752	178461	343343	845631	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd1 0	Ave	6751 244232	12966 690648	29330	58429	130819	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	18885 870096	50604 2189679	96698	183197	443750	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	10502 521426	26198 1311628	55096	108056	260868	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd1 0	Ave	12558 646096	37272 1538645	78250	140629	325105	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd1 0	Ave	10931 582252	32066 1463905	65434	120047	296709	1.00 50.0	2.50 125	5.00	10.0	25.0
Methyl tertiary butyl ether	FB	Ave	29258 1431718	73272 3592103	157517	295684	716859	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	10478 522420	26963 1312619	55706	108056	258856	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	12643 770889	35728 2081061	82931	166559	411619	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	18828 989205	48509 2486421	105511	198755	485770	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	39957 1979657	99922 4941744	213671	403335	980101	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	17821 880335	44458 2218551	95428	180575	441551	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	36262 1808949	92089 4516790	193019	363795	903460	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone	TBAd1 0	Ave	34375 1655912	89142 4135516	186432	341451	828352	2.00 100	5.00 250	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	11304 593244	30199 1486697	63650	120745	293028	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	16476 809643	41487 2061512	86568	166142	407651	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.: 410-214590-1

Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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	14908 833953	45761 2056391	97449	174294	406595	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd10	Ave	32580 1544674	77275 3857032	167335	317768	766425	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	5366 257416	13722 651451	28011	52433	130627	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd10	Ave	8871 433079	21854 1074451	48944	89573	215770	2.00 100	5.00 250	10.0	20.0	50.0
Chloroform	FB	Ave	18700 935084	47732 2347914	100689	191526	467191	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	16224 795686	41257 2022017	85584	162606	396057	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	15080 934696	45968 2456493	101123	196628	485144	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	13772 699045	34456 1796395	75097	141008	346656	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	15173 750119	37534 1929345	79831	155596	375317	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	FB	Ave	14998 587299	29644 1475056	67984	121267	292232	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	44170 2218035	111347 5622443	241164	455295	1100869	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	14128 588167	32618 1510198	65819	122885	295549	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	31976 1588018	79984 3974346	172887	324674	788786	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	14986 879279	40450 2384149	90836	181073	463712	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butanol	TBAd10	Ave	26057 1169293	62965 2867258	125899	248576	586370	20.0 1000	50.0 2500	100	200	500
Trichloroethene	FB	Ave	11723 566426	28664 1428934	59598	116383	278479	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	15769 888517	45474 2337109	91381	182602	457689	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	12189 594461	30117 1481659	64320	119367	292517	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.: 410-214590-1

Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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 methacrylate	TBA01	Ave	6248 314713	16301 793834	34214	64887	157779	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBA01	Ave	1248 116348	5456 280447	11572	26270	57308	10.0 500	25.0 1250	50.0	100	250
Dibromomethane	FB	Ave	5716 275323	13777 696745	29475	55304	135590	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	13698 706255	33392 1793553	73464	140150	343988	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBA01	Ave	18191 899063	44863 2280829	96897	180791	446843	2.00 100	5.00 250	10.0	20.0	50.0
1-Bromo-2-chloroethane	FB	Ave	12526 632658	32732 1613118	67155	130329	323185	0.200 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,3-Dichloropropene	FB	Ave	17452 901197	44710 2324073	95377	181945	449091	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone	TBA01	Ave	86421 4346527	222955 10637772	478190	887415	2154238	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd5	Ave	27572 1376073	69853 3492002	146327	278591	683495	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd5	Ave	14156 765518	37093 1963134	76563	150936	378649	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd5	Ave	13470 683673	32351 1698291	70532	137503	332561	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2-Trichloroethane	CBZd5	Ave	7932 398053	20860 1011153	43259	81260	197601	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd5	Ave	11458 602059	30689 1545623	62720	121696	298979	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd5	Ave	14652 720295	36850 1831199	77242	145956	358460	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBA01	Ave	62169 3134600	157747 7771959	334821	645054	1570233	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd5	Ave	8808 497877	22656 1288980	50339	97381	243007	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane	CBZd5	Ave	7804 396354	19536 1013188	42028	80460	196846	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd5	Ave	18485 791218	43401 2021466	86809	162251	396805	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.: 410-214590-1

Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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	30598 1541301	78284 3902651	161371	310565	760248	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd5	Ave	10378 561469	26540 1430192	57609	111642	275804	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd5	Ave	56042 2703437	136856 6849934	288772	548965	1345750	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd5	Ave	39788 2069783	102766 5259805	219481	418534	1025168	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd5	Ave	20593 1022577	51651 2612526	105945	203530	504969	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Styrene	CBZd5	Ave	34193 1745400	86978 4437047	183091	354894	861952	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd5	Ave	4668 304248	12931 799958	28046	57245	146803	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd5	Ave	53210 2679183	132190 6784295	280719	542248	1331001	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd4	Ave	10124 553642	27699 1384788	56804	111748	273837	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd4	Ave	12894 654760	32482 1663078	69470	132263	320859	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBA d1 0	Ave	23186 1457770	63627 3738276	139562	278293	701899	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd4	Ave	2519 138980	7254 345318	15377	28491	67388	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd4	Ave	65333 3236978	165110 8111815	338497	661944	1623321	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd4	Ave	12758 635163	31485 1636772	68023	130139	316960	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd4	Ave	43880 2319655	115372 5889002	240788	466416	1154535	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd4	Ave	12838 665842	34713 1693778	71097	133168	329404	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd4	Ave	9709 490248	25251 1265966	50184	97199	244744	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Pentachloroethane	DCBd4	Ave	7836 427979	21266 1117481	43066	85685	213871	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd4	Ave	47673 2411281	119721 6115025	250956	482620	1190575	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd4	Ave	59733	147266	311759	603955	1489422	0.200	0.500	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.: 410-214590-1

Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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
			2999448	7647756				10.0	25.0			
1,3-Dichlorobenzene	DCBd4	Ave	26068 1310582	66610 3371982	137230	266406	650429	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd4	Ave	50640 2609529	129655 6669275	274677	518846	1294886	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd4	Ave	26967 1327411	68535 3385890	138733	271182	664687	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd4	Ave	22584 1037654	54187 2646951	109147	214525	518339	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd4	Ave	4530 241370	11182 617345	25065	46895	119235	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd4	Ave	27112 1374780	69796 3504248	144959	275706	677396	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd4	Ave	24056 1221855	62448 3100816	130553	249800	604314	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	1486 81816	3908 208192	8650	15596	38959	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd4	Ave	22309 1106187	56346 2822323	114581	215623	546533	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trichlorobenzene	DCBd4	Ave	19946 1016153	54078 2570710	104962	202142	499550	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd4	Ave	10231 494492	26381 1284715	50715	96356	245031	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd4	Ave	37571 1828996	94086 4554237	196928	374308	907383	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd4	Ave	18105 888658	47589 2227961	93358	178820	436916	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	526196 541882	532962 543100	539150	536748	540338	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	112511 116084	111685 117092	114722	114415	113626	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd5	Ave	2122568 2179039	2121912 2188553	2136211	2136446	2162628	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	812877 829357	812090 833577	818561	818494	820021	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.: 410-214590-1 Analy Batch No.: 70996
Environment Testing, LLC

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-70996/9	GN30I07.D
Level 2	IC 410-70996/8	GN30I06.D
Level 3	IC 410-70996/7	GN30I05.D
Level 4	IC 410-70996/6	GN30I04.D
Level 5	IC 410-70996/5	GN30I03.D
Level 6	ICIS 410-70996/4	GN30I02.D
Level 7	IC 410-70996/3	GN30I01.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	-8.9 2.3	2.4	3.0	4.2	-1.3	-1.5	50 30	30	30	30	30	30
Chloromethane	10.2 -6.3	6.6	1.0	-0.6	-5.6	-5.3	50 30	30	30	30	30	30
1,3-Butadiene	20.6 -17.7	16.9	7.4	-2.5	-9.8	-15.0	50 30	30	30	30	30	30
Vinyl chloride	5.5 -2.3	3.0	-1.3	1.3	-3.4	-2.8	50 30	30	30	30	30	30
Bromomethane	13.8 -7.1	4.8	-0.3	0.2	-4.6	-6.8	50 30	30	30	30	30	30
Chloroethane	11.2 -5.4	3.9	-3.7	1.0	-2.9	-4.1	50 30	30	30	30	30	30
Dichlorofluoromethane	23.2 -8.3	4.3	-4.8	-1.7	-5.6	-7.2	50 30	30	30	30	30	30
Trichlorofluoromethane	-3.6 0.9	2.1	-3.0	5.1	0.4	-2.0	50 30	30	30	30	30	30
Ethyl ether	-0.3 -2.6	2.9	3.5	3.4	-3.7	-3.3	50 30	30	30	30	30	30
Freon 123a	7.5 -5.6	3.3	5.3	0.2	-3.6	-7.2	50 30	30	30	30	30	30
Acrolein	2.5 5.2	-1.9	-4.2	-0.9	-0.8	0.2	50 30	30	30	30	30	30
1,1-Dichloroethene	2.6 -3.6	4.6	4.6	-1.5	-2.4	-4.5	50 30	30	30	30	30	30
Freon 113	-28.7 5.9	-4.4	10.1	8.1	7.5	1.4	50 30	30	30	30	30	30
Acetone	29.9 -6.2	4.5	0.9	-9.6	-9.7	-9.9	50 30	30	30	30	30	30
Methyl iodide	-3.1 -1.9	2.1	5.4	1.1	-1.5	-2.0	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
Environment Testing, LLC

Job No.: 410-214590-1

Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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	-4.0 -3.4	6.5	3.5	1.7	-0.7	-3.7	50 30	30	30	30	30	30
Carbon disulfide	-2.1 -1.5	0.0	5.1	1.2	-1.0	-1.7	50 30	30	30	30	30	30
Methyl acetate	23.0 4.6	-10.8	-1.9	0.7	-3.9	-11.6	50 30	30	30	30	30	30
Allyl chloride	2.8 -6.6	10.9	4.9	-0.6	-4.3	-7.1	50 30	30	30	30	30	30
Methylene Chloride	-0.2 -2.3	0.3	4.4	2.4	-1.8	-2.8	50 30	30	30	30	30	30
t-Butyl alcohol	-5.5 -3.8	5.9	8.1	0.1	-1.4	-3.5	50 30	30	30	30	30	30
Acrylonitrile	-6.8 3.7	3.2	2.5	-3.2	2.0	-1.4	50 30	30	30	30	30	30
Methyl tertiary butyl ether	0.2 -3.5	1.1	7.6	1.0	-2.7	-3.7	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-0.9 -2.7	2.7	5.0	1.9	-3.0	-3.0	50 30	30	30	30	30	30
n-Hexane	-18.0 5.8	-6.7	7.2	7.8	5.8	-1.9	50 30	30	30	30	30	30
1,1-Dichloroethane	-4.1 -0.7	-0.4	7.2	1.0	-1.9	-1.1	50 30	30	30	30	30	30
di-Isopropyl ether	0.1 -3.0	0.8	6.7	0.8	-2.7	-2.7	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-0.2 -2.6	0.3	6.6	0.9	-2.0	-3.2	50 30	30	30	30	30	30
Ethyl t-butyl ether	-0.4 -2.7	1.9	5.7	-0.3	-1.7	-2.5	50 30	30	30	30	30	30
2-Butanone	2.3 2.3	0.1	1.9	-3.9	-0.6	-2.1	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-4.8 -1.8	2.5	6.9	1.4	-2.2	-1.9	50 30	30	30	30	30	30
2,2-Dichloropropane	0.1 -1.8	1.5	4.9	0.7	-1.9	-3.5	50 30	30	30	30	30	30
Propionitrile	-10.5 2.6	3.7	7.4	-1.0	-1.6	-0.6	50 30	30	30	30	30	30
Methacrylonitrile	5.5 3.8	-5.6	-0.5	-2.7	0.0	-0.7	50 30	30	30	30	30	30
Bromochloromethane	1.4 -3.5	4.4	5.5	-1.2	-2.2	-4.5	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.: 410-214590-1 Analy Batch No.: 70996
Environment Testing, LLC

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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
Tetrahydrofuran	2.1 2.8	-5.1	3.5	-2.5	0.1	-1.0	50 30	30	30	30	30	30
Chloroform	-1.1 -2.7	1.7	6.2	1.0	-2.1	-2.9	50 30	30	30	30	30	30
1,1,1-Trichloroethane	0.2 -2.1	2.7	5.4	0.2	-3.0	-3.5	50 30	30	30	30	30	30
Cyclohexane	-18.9 3.5	-0.4	8.4	5.5	3.4	-1.4	50 30	30	30	30	30	30
Carbon tetrachloride	-1.9 0.3	-1.1	6.7	0.2	-2.1	-2.2	50 30	30	30	30	30	30
1,1-Dichloropropene	-0.2 -0.5	-0.6	4.7	2.1	-2.2	-3.2	50 30	30	30	30	30	30
Isobutyl alcohol	20.3 -7.2	-4.2	8.7	-3.0	-7.1	-7.5	50 30	30	30	30	30	30
Benzene	-1.5 -1.7	0.1	7.3	1.3	-2.7	-2.9	50 30	30	30	30	30	30
1,2-Dichloroethane	12.7 -5.6	4.8	4.7	-2.2	-6.6	-7.9	50 30	30	30	30	30	30
t-Amyl methyl ether	-0.4 -2.9	0.4	7.4	0.9	-2.6	-2.9	50 30	30	30	30	30	30
n-Heptane	-13.9 7.4	-6.3	4.1	3.8	5.6	-0.8	50 30	30	30	30	30	30
n-Butanol	9.1 -0.2	-0.5	-3.2	-1.5	-1.0	-2.8	50 30	30	30	30	30	30
Trichloroethene	2.4 -2.1	0.9	3.8	1.4	-3.6	-2.9	50 30	30	30	30	30	30
Methylcyclohexane	-11.3 3.1	3.1	2.5	2.5	2.0	-1.9	50 30	30	30	30	30	30
1,2-Dichloropropane	1.7 -3.1	1.2	7.0	-0.7	-3.3	-2.7	50 30	30	30	30	30	30
Methyl methacrylate	-0.6 4.9	-2.2	-0.1	-2.4	1.1	-0.6	50 30	30	30	30	30	30
1,4-Dioxane	-41.2 9.7	-3.1	0.1	17.0	8.8	8.8	50 30	30	30	30	30	30
Dibromomethane	2.9 -1.7	-0.1	5.8	-0.7	-3.3	-2.8	50 30	30	30	30	30	30
Bromodichloromethane	-1.5 1.1	-3.3	5.3	0.6	-2.0	-0.3	50 30	30	30	30	30	30
2-Nitropropane	2.0 6.3	-5.1	-0.2	-4.1	1.0	0.1	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1 Analy Batch No.: 70996
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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	-2.5 -1.6	2.6	4.2	1.2	-0.4	-3.4	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-3.3 0.9	-0.2	5.4	0.6	-1.4	-2.0	50 30	30	30	30	30	30
4-Methyl-2-pentanone	0.2 2.5	-2.5	1.8	-2.7	0.7	0.0	50 30	30	30	30	30	30
Toluene	0.8 -2.8	1.4	5.5	0.2	-2.1	-3.0	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-4.1 1.2	-0.3	2.3	0.5	0.4	0.0	50 30	30	30	30	30	30
Ethyl methacrylate	1.5 -2.6	-3.2	4.8	1.9	-1.8	-0.6	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-0.6 -3.5	3.8	6.9	0.2	-3.0	-3.8	50 30	30	30	30	30	30
Tetrachloroethene	-3.5 -0.9	2.7	4.2	0.9	-1.3	-2.1	50 30	30	30	30	30	30
1,3-Dichloropropane	1.8 -3.1	1.7	5.9	-0.3	-2.4	-3.5	50 30	30	30	30	30	30
2-Hexanone	0.2 4.1	-4.1	-0.9	-1.7	2.0	0.3	50 30	30	30	30	30	30
Dibromochloromethane	-6.9 3.7	-5.0	4.9	1.2	0.6	1.5	50 30	30	30	30	30	30
1,2-Dibromoethane	-0.4 -1.5	-1.0	5.8	1.0	-1.6	-2.4	50 30	30	30	30	30	30
1-Chlorohexane	12.5 -6.3	4.9	4.2	-2.9	-5.4	-7.1	50 30	30	30	30	30	30
Chlorobenzene	0.4 -2.5	2.0	4.5	0.3	-2.2	-2.4	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-4.1 0.6	-2.7	5.0	1.4	-0.2	0.0	50 30	30	30	30	30	30
Ethylbenzene	3.7 -3.5	0.5	5.4	-0.1	-2.5	-3.5	50 30	30	30	30	30	30
m&p-Xylene	-2.3 -1.7	0.2	6.3	1.0	-1.4	-2.0	50 30	30	30	30	30	30
o-Xylene	1.9 -1.5	1.5	3.4	-0.9	-2.1	-2.4	50 30	30	30	30	30	30
Styrene	-0.7 -1.9	0.3	4.9	1.4	-1.9	-2.2	50 30	30	30	30	30	30
Bromoform	-15.5 10.2	-7.1	0.1	1.9	4.1	6.2	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
Environment Testing, LLC

Job No.: 410-214590-1

Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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	0.7 -2.3	-0.7	4.8	0.9	-1.3	-2.2	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-6.1 -1.7	2.3	5.0	2.3	-0.9	-0.9	50 30	30	30	30	30	30
Bromobenzene	-0.4 -1.7	-0.1	7.0	0.8	-3.2	-2.3	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-13.4 16.0	-10.3	-4.3	-1.7	5.7	8.1	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-8.4 -3.9	5.1	11.5	2.3	-4.3	-2.4	50 30	30	30	30	30	30
N-Propylbenzene	1.2 -3.8	1.8	4.6	1.2	-1.8	-3.2	50 30	30	30	30	30	30
2-Chlorotoluene	0.5 -1.3	-1.3	6.8	1.2	-2.5	-3.4	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-3.6 -1.0	0.9	5.4	1.1	-1.0	-1.6	50 30	30	30	30	30	30
4-Chlorotoluene	-3.0 -2.1	4.4	7.1	-0.7	-2.8	-2.9	50 30	30	30	30	30	30
tert-Butylbenzene	-0.2 -0.4	3.4	2.9	-1.4	-1.7	-2.6	50 30	30	30	30	30	30
Pentachloroethane	-6.2 2.3	1.3	2.7	1.2	-0.1	-1.1	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	0.3 -1.6	0.2	5.2	0.2	-2.2	-2.1	50 30	30	30	30	30	30
sec-Butylbenzene	0.8 -1.2	-1.0	4.9	0.6	-1.9	-2.2	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-0.1 -1.2	1.6	4.8	0.7	-2.7	-3.1	50 30	30	30	30	30	30
p-Isopropyltoluene	-1.6 -0.8	0.3	6.4	-0.5	-1.8	-2.1	50 30	30	30	30	30	30
1,4-Dichlorobenzene	1.4 -2.6	2.6	4.0	0.6	-2.4	-3.6	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	7.1 -4.0	2.3	3.2	0.4	-4.0	-5.0	50 30	30	30	30	30	30
Benzyl chloride	-2.9 1.3	-4.6	7.2	-0.8	-0.2	-0.1	50 30	30	30	30	30	30
n-Butylbenzene	-0.5 -1.6	1.9	6.0	-0.2	-3.0	-2.6	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-1.2 -2.6	2.1	6.9	1.2	-3.1	-3.1	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1 Analy Batch No.: 70996
Environment Testing, LLC

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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	-5.4 1.4	-1.0	9.8	-2.1	-3.2	0.5	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	2.0 -1.3	2.5	4.4	-2.7	-2.5	-2.4	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-1.1 -2.4	6.8	3.8	-1.1	-3.3	-2.7	50 30	30	30	30	30	30
Hexachlorobutadiene	3.3 -0.7	6.1	2.1	-3.9	-3.4	-3.5	50 30	30	30	30	30	30
Naphthalene	2.4 -5.0	2.1	7.0	0.7	-3.4	-3.7	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	1.7 -4.2	6.5	4.6	-0.8	-4.2	-3.6	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-1.4 -0.3	0.6	0.7	0.3	0.3	-0.3	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-0.9 1.1	-0.9	0.7	0.5	-0.9	0.3	50 30	30	30	30	30	30
Toluene-d8 (Surr)	0.8 -1.1	0.0	0.1	-0.2	0.6	-0.2	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	1.1 -1.3	0.3	0.4	0.1	-0.1	-0.5	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I01.D
 Lims ID: IC std7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 30-Nov-2020 12:50:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0016641-003
 Misc. Info.: IC STD7
 Operator ID: DVV10203 Instrument ID: 16334
 Sublist: chrom-MSV_16334_25mL*sub4
 Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Dec-2020 18:56:56 Calib Date: 30-Nov-2020 18:23:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1610

First Level Reviewer: virayd

Date: 01-Dec-2020 11:39:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.940	1.953	-0.013	99	1495396	25.0	25.6	
5 Chloromethane	50	2.142	2.148	-0.006	99	1849975	25.0	23.4	
6 Butadiene	39	2.251	2.264	-0.013	96	1847653	25.0	20.6	
7 Vinyl chloride	62	2.257	2.270	-0.013	98	1645533	25.0	24.4	
9 Bromomethane	94	2.574	2.593	-0.019	91	1090646	25.0	23.2	
10 Chloroethane	64	2.654	2.666	-0.012	100	966420	25.0	23.6	
11 Dichlorofluoromethane	67	2.891	2.904	-0.013	97	2101552	25.0	22.9	
13 Trichlorofluoromethane	101	2.965	2.977	-0.012	97	1955497	25.0	25.2	
15 Ethyl ether	59	3.196	3.208	-0.012	94	1114451	25.0	24.3	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.288	3.300	-0.012	93	1496120	25.0	23.6	
18 Acrolein	56	3.373	3.385	-0.012	99	8876973	1250.0	1314.9	
19 1,1-Dichloroethene	96	3.507	3.519	-0.012	97	1129827	25.0	24.1	
21 112TCTFE	101	3.544	3.556	-0.012	92	1213458	25.0	26.5	
20 Acetone	43	3.544	3.562	-0.018	100	2047683	250.0	234.6	
22 Iodomethane	142	3.696	3.714	-0.018	98	2146588	25.0	24.5	
23 Isopropyl alcohol	45	3.721	3.727	-0.007	48	773552	500.0	433.4	
24 Ethyl bromide	108	3.727	3.739	-0.012	98	986182	25.0	24.2	
25 Carbon disulfide	76	3.800	3.812	-0.012	99	4255752	25.0	24.6	
26 Methyl acetate	43	3.952	3.971	-0.018	98	690648	25.0	26.1	M
27 3-Chloro-1-propene	41	3.977	3.989	-0.012	93	2189679	25.0	23.3	
28 Methylene Chloride	84	4.166	4.178	-0.012	94	1311628	25.0	24.4	
* 29 t-Butyl alcohol-d10 (IS)	65	4.196	4.202	-0.006	0	177877	50.0	50.0	
30 2-Methyl-2-propanol	59	4.318	4.336	-0.018	100	1538645	500.0	481.1	
31 Acrylonitrile	53	4.513	4.525	-0.012	98	1463905	125.0	129.7	
32 Methyl tert-butyl ether	73	4.568	4.580	-0.012	96	3592103	25.0	24.1	
33 trans-1,2-Dichloroethene	96	4.568	4.586	-0.018	98	1312619	25.0	24.3	
34 Hexane	57	4.995	5.007	-0.012	94	2081061	25.0	26.4	
36 1,1-Dichloroethane	63	5.239	5.251	-0.013	96	2486421	25.0	24.8	
37 Isopropyl ether	45	5.299	5.306	-0.007	96	4941744	25.0	24.3	
38 2-Chloro-1,3-butadiene	53	5.348	5.360	-0.012	91	2218551	25.0	24.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.836	5.836	0.000	99	4516790	25.0	24.3	
40 2-Butanone (MEK)	43	6.043	6.049	-0.006	100	4135516	250.0	255.7	
41 cis-1,2-Dichloroethene	96	6.074	6.086	-0.012	83	1486697	25.0	24.5	
42 2,2-Dichloropropane	77	6.092	6.092	0.000	88	2061512	25.0	24.5	
44 Propionitrile	54	6.147	6.147	0.000	99	2056391	500.0	512.9	
S 49 1,2-Dichloroethene, Total	100				0			48.9	
46 Methacrylonitrile	67	6.360	6.360	0.000	94	3857032	250.0	259.5	
48 Chlorobromomethane	128	6.409	6.409	0.000	96	651451	25.0	24.1	
47 Tetrahydrofuran	71	6.415	6.409	0.006	93	1074451	250.0	257.0	
50 Chloroform	83	6.561	6.561	0.000	93	2347914	25.0	24.3	
\$ 52 Dibromofluoromethane (Surr)	113	6.775	6.781	-0.006	94	543100	10.0	9.97	
51 1,1,1-Trichloroethane	97	6.781	6.787	-0.006	98	2022017	25.0	24.5	
53 Cyclohexane	56	6.872	6.878	-0.006	92	2456493	25.0	25.9	
56 Carbon tetrachloride	117	6.988	7.000	-0.012	95	1796395	25.0	25.1	
55 1,1-Dichloropropene	75	6.994	7.000	-0.006	98	1929345	25.0	24.9	
57 Isobutyl alcohol	41	7.165	7.165	0.000	95	1475056	1250.0	1159.5	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.232	7.232	0.000	0	117092	10.0	10.1	
59 Benzene	78	7.263	7.263	-0.001	97	5622443	25.0	24.6	
60 1,2-Dichloroethane	62	7.330	7.336	-0.006	97	1510198	25.0	23.6	M
62 Tert-amyl methyl ether	73	7.451	7.458	-0.007	98	3974346	25.0	24.3	
* 63 Fluorobenzene (IS)	96	7.665	7.671	-0.006	98	2249974	10.0	10.0	
64 n-Heptane	43	7.671	7.677	-0.006	94	2384149	25.0	26.9	
65 n-Butanol	56	8.043	8.049	-0.006	89	2867258	2500.0	2494.7	
67 Trichloroethene	95	8.140	8.147	-0.007	99	1428934	25.0	24.5	
68 Methylcyclohexane	83	8.445	8.451	-0.006	94	2337109	25.0	25.8	
69 1,2-Dichloropropane	63	8.476	8.482	-0.006	86	1481659	25.0	24.2	
70 2-ethoxy-2-methyl butane	87	8.488	8.488	0.000	91	2213829	25.0	24.7	
72 1,4-Dioxane	88	8.567	8.567	0.000	33	280447	1250.0	1371.5	
71 Methyl methacrylate	69	8.567	8.567	0.000	92	793834	25.0	26.2	
73 Dibromomethane	93	8.585	8.585	0.000	96	696745	25.0	24.6	
75 Dichlorobromomethane	83	8.823	8.823	0.000	100	1793553	25.0	25.3	
76 2-Nitropropane	41	9.110	9.110	0.000	97	2280829	250.0	265.7	
79 1-Bromo-2-chloroethane	63	9.213	9.219	-0.006	98	1613118	25.0	24.6	
80 cis-1,3-Dichloropropene	75	9.378	9.378	0.000	95	2324073	25.0	25.2	
81 4-Methyl-2-pentanone (MIBK)	43	9.555	9.561	-0.006	97	10637772	250.0	256.2	
\$ 82 Toluene-d8 (Surr)	98	9.689	9.689	0.000	94	2188553	10.0	9.89	
83 Toluene	92	9.762	9.762	0.000	98	3492002	25.0	24.3	
84 trans-1,3-Dichloropropene	75	10.024	10.024	0.000	93	1963134	25.0	25.3	
S 87 1,3-Dichloropropene, Total	100				0			50.5	
85 Ethyl methacrylate	69	10.085	10.085	0.000	91	1698291	25.0	24.4	
86 1,1,2-Trichloroethane	97	10.225	10.231	-0.006	90	1011153	25.0	24.1	
88 Tetrachloroethene	166	10.311	10.311	0.000	98	1545623	25.0	24.8	
89 1,3-Dichloropropane	76	10.390	10.396	-0.006	92	1831199	25.0	24.2	
91 2-Hexanone	43	10.445	10.451	-0.006	98	7771959	250.0	260.2	
93 Chlorodibromomethane	129	10.603	10.603	0.000	90	1288980	25.0	25.9	
94 Ethylene Dibromide	107	10.713	10.713	0.000	99	1013188	25.0	24.6	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	86	1658425	10.0	10.0	
96 1-Chlorohexane	91	11.158	11.158	0.000	98	2021466	25.0	23.4	
97 Chlorobenzene	112	11.170	11.176	-0.006	95	3902651	25.0	24.4	
S 101 Xylenes, Total	106				0			73.8	
98 1,1,1,2-Tetrachloroethane	131	11.256	11.256	0.000	96	1430192	25.0	25.1	
99 Ethylbenzene	91	11.262	11.262	0.000	99	6849934	25.0	24.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.378	11.378	0.000	98	5259805	50.0	49.1	
102 o-Xylene	106	11.707	11.707	0.000	97	2612526	25.0	24.6	
103 Styrene	104	11.719	11.719	0.000	95	4437047	25.0	24.5	
104 Bromoform	173	11.877	11.877	0.000	97	799958	25.0	27.6	
105 Isopropylbenzene	105	12.005	12.006	-0.001	96	6784295	25.0	24.4	
\$ 108 4-Bromofluorobenzene (Surr)	95	12.146	12.152	-0.006	89	833577	10.0	9.87	
109 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	92	1384788	25.0	24.6	
110 Bromobenzene	156	12.268	12.268	0.000	95	1663078	25.0	24.6	
111 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	91	3738276	250.0	290.0	
112 1,2,3-Trichloropropane	110	12.298	12.304	-0.006	79	345318	25.0	24.0	
113 N-Propylbenzene	91	12.335	12.335	0.000	99	8111815	25.0	24.0	
114 2-Chlorotoluene	126	12.414	12.414	0.000	97	1636772	25.0	24.7	
115 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	5889002	25.0	24.7	
116 4-Chlorotoluene	126	12.505	12.505	0.000	97	1693778	25.0	24.5	
118 tert-Butylbenzene	134	12.713	12.713	0.000	93	1265966	25.0	24.9	
120 Pentachloroethane	167	12.743	12.743	0.000	95	1117481	25.0	25.6	
119 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	6115025	25.0	24.6	
121 sec-Butylbenzene	105	12.877	12.877	0.000	94	7647756	25.0	24.7	
122 1,3-Dichlorobenzene	146	12.975	12.975	0.000	98	3371982	25.0	24.7	
123 4-Isopropyltoluene	119	12.981	12.981	0.000	97	6669275	25.0	24.8	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	93	896780	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.048	13.048	0.000	94	3385890	25.0	24.4	
126 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	99	2646951	25.0	24.0	
127 Benzyl chloride	126	13.127	13.127	0.000	99	617345	25.0	25.3	
129 p-Diethylbenzene	119	13.182	13.182	0.000	92	4022632	25.0	24.6	
130 n-Butylbenzene	92	13.274	13.274	0.000	98	3504248	25.0	24.6	
131 1,2-Dichlorobenzene	146	13.310	13.310	0.000	98	3100816	25.0	24.4	
134 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	94	208192	25.0	25.3	
135 1,3,5-Trichlorobenzene	180	13.975	13.975	0.000	98	2822323	25.0	24.7	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	2570710	25.0	24.4	
137 Hexachlorobutadiene	225	14.481	14.481	0.000	96	1284715	25.0	24.8	
138 Naphthalene	128	14.578	14.578	0.000	97	4554237	25.0	23.7	
139 1,2,3-Trichlorobenzene	180	14.718	14.718	0.000	96	2227961	25.0	23.9	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	92	3104331	25.0	22.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00031

Amount Added: 25.00

Units: uL

MSV_RV4GAS826_00097

Amount Added: 25.00

Units: uL

MSV_RV4_826_00035

Amount Added: 25.00

Units: uL

MSV_29_826ISS_00013

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I01.D

Injection Date: 30-Nov-2020 12:50:30

Instrument ID: 16334

Operator ID: DVV10203

Lims ID: IC std7

Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

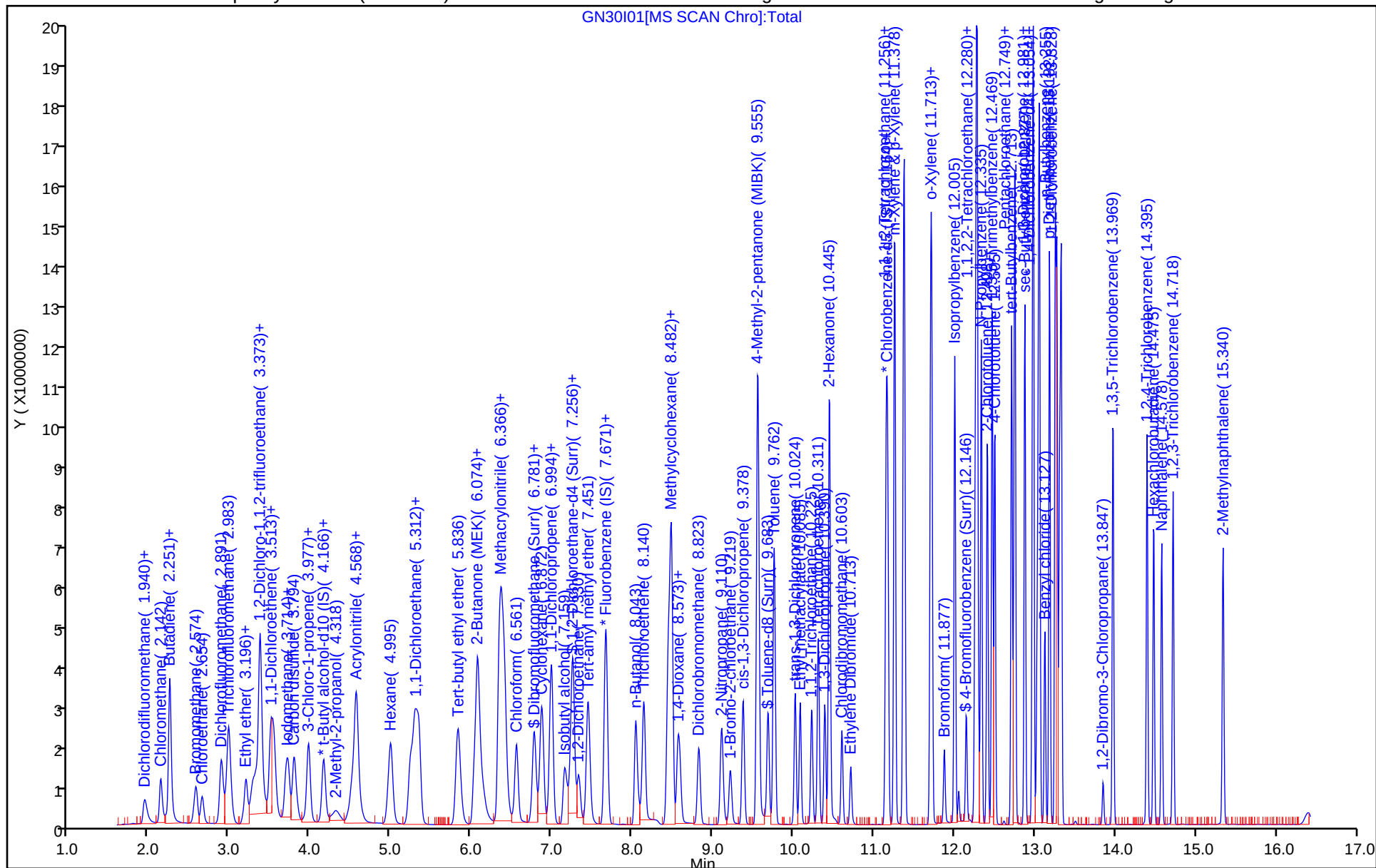
ALS Bottle#: 2

Method: MSV_16334_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 Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I01.D

Injection Date: 30-Nov-2020 12:50:30

Instrument ID: 16334

Lims ID: IC std7

Client ID:

Operator ID: DVV10203

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

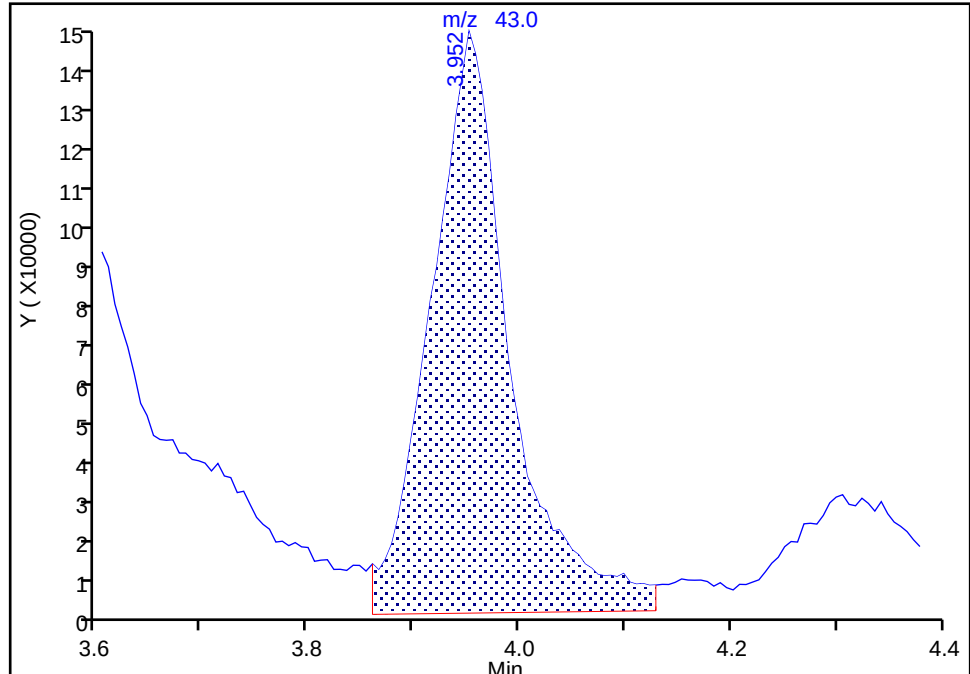
MS Quad

26 Methyl acetate, CAS: 79-20-9

Signal: 1

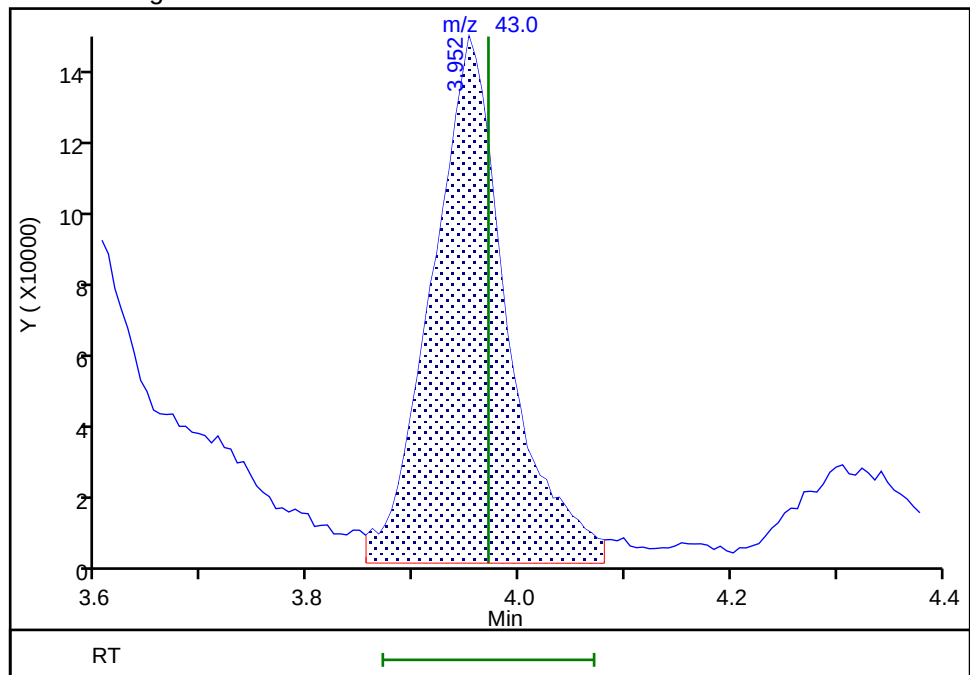
RT: 3.95
Area: 749074
Amount: 27.913187
Amount Units: ug/l

Processing Integration Results



RT: 3.95
Area: 690648
Amount: 26.140420
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:38:22

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I01.D

Injection Date: 30-Nov-2020 12:50:30

Instrument ID: 16334

Lims ID: IC std7

Client ID:

Operator ID: DVV10203

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

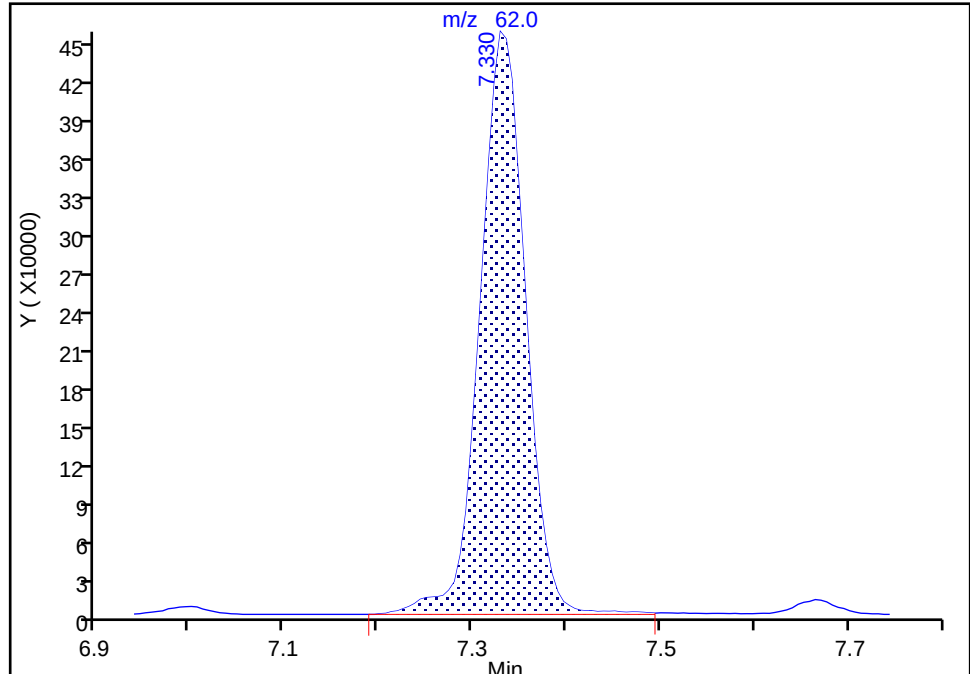
MS Quad

60 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

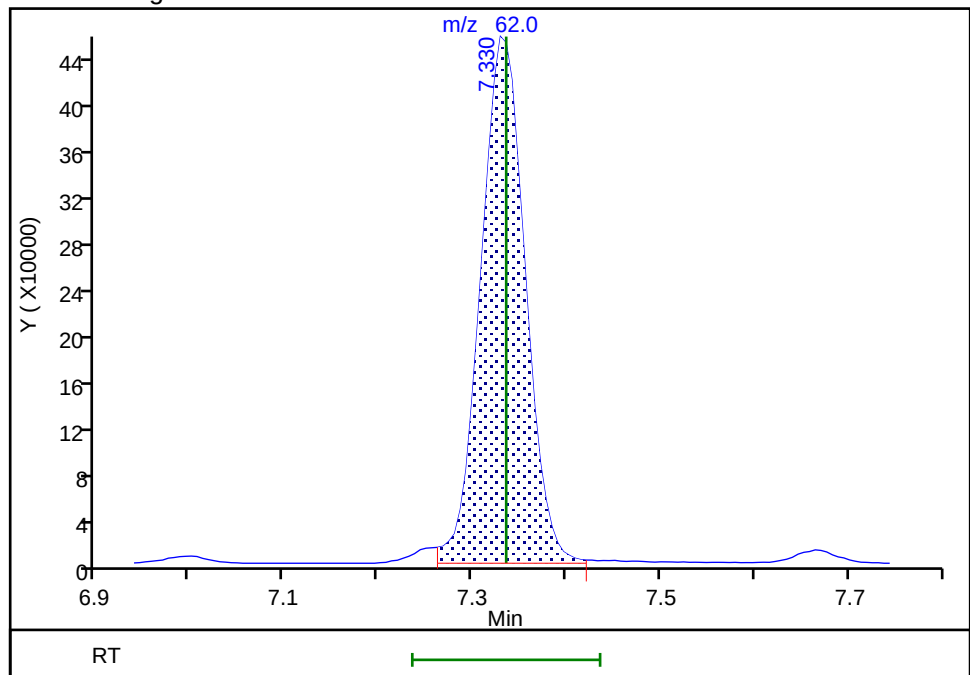
RT: 7.33
Area: 1541889
Amount: 23.957758
Amount Units: ug/l

Processing Integration Results



RT: 7.33
Area: 1510198
Amount: 23.611228
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:38:44

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I02.D
 Lims ID: ICIS std6
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 30-Nov-2020 13:12:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0016641-004
 Misc. Info.: ICIS STD6
 Operator ID: DVV10203 Instrument ID: 16334
 Sublist: chrom-MSV_16334_25mL*sub4
 Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Dec-2020 18:57:10 Calib Date: 30-Nov-2020 18:23:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1610

First Level Reviewer: virayd

Date: 01-Dec-2020 11:46:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.952	1.952	0.000	99	575013	10.0	9.85	
5 Chloromethane	50	2.148	2.148	0.000	99	746607	10.0	9.47	
6 Butadiene	39	2.257	2.257	0.000	95	762788	10.0	8.50	
7 Vinyl chloride	62	2.257	2.257	0.000	98	653889	10.0	9.72	
9 Bromomethane	94	2.580	2.580	0.000	90	437020	10.0	9.32	
10 Chloroethane	64	2.660	2.660	0.000	100	391559	10.0	9.59	
11 Dichlorofluoromethane	67	2.897	2.897	0.000	97	849408	10.0	9.28	
13 Trichlorofluoromethane	101	2.971	2.971	0.000	97	758912	10.0	9.80	
15 Ethyl ether	59	3.208	3.208	0.000	93	442210	10.0	9.67	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.294	3.294	0.000	94	587407	10.0	9.28	
18 Acrolein	56	3.379	3.379	0.000	99	3539158	500.0	501.1	
19 1,1-Dichloroethene	96	3.513	3.513	0.000	97	447046	10.0	9.55	
21 112TCTFE	101	3.550	3.550	0.000	93	464025	10.0	10.1	
20 Acetone	43	3.550	3.550	0.000	100	823027	100.0	90.1	
22 Iodomethane	142	3.702	3.702	0.000	98	856231	10.0	9.80	
23 Isopropyl alcohol	45	3.727	3.727	0.000	47	310668	200.0	174.3	
24 Ethyl bromide	108	3.733	3.733	0.000	98	392528	10.0	9.63	
25 Carbon disulfide	76	3.806	3.806	0.000	99	1696280	10.0	9.83	
26 Methyl acetate	43	3.964	3.964	0.000	99	244232	10.0	8.84	
27 3-Chloro-1-propene	41	3.989	3.989	0.000	93	870096	10.0	9.29	
28 Methylene Chloride	84	4.172	4.172	0.000	94	521426	10.0	9.72	
* 29 t-Butyl alcohol-d10 (IS)	65	4.208	4.208	0.000	0	186094	50.0	50.0	
30 2-Methyl-2-propanol	59	4.318	4.318	0.000	100	646096	200.0	193.1	
31 Acrylonitrile	53	4.519	4.519	0.000	98	582252	50.0	49.3	
32 Methyl tert-butyl ether	73	4.574	4.574	0.000	96	1431718	10.0	9.63	
33 trans-1,2-Dichloroethene	96	4.580	4.580	0.000	97	522420	10.0	9.70	
34 Hexane	57	5.007	5.007	0.000	94	770889	10.0	9.81	
36 1,1-Dichloroethane	63	5.245	5.245	0.000	96	989205	10.0	9.89	
37 Isopropyl ether	45	5.299	5.299	0.000	96	1979657	10.0	9.73	
38 2-Chloro-1,3-butadiene	53	5.354	5.354	0.000	91	880335	10.0	9.68	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.836	5.836	0.000	99	1808949	10.0	9.75	
40 2-Butanone (MEK)	43	6.043	6.043	0.000	100	1655912	100.0	97.9	
41 cis-1,2-Dichloroethene	96	6.080	6.080	0.000	83	593244	10.0	9.81	
42 2,2-Dichloropropane	77	6.092	6.092	0.000	87	809643	10.0	9.65	
44 Propionitrile	54	6.147	6.147	0.000	99	833953	200.0	198.8	
46 Methacrylonitrile	67	6.354	6.354	0.000	94	1544674	100.0	99.3	
48 Chlorobromomethane	128	6.409	6.409	0.000	96	257416	10.0	9.55	
47 Tetrahydrofuran	71	6.421	6.421	0.000	82	433079	100.0	99.0	
50 Chloroform	83	6.561	6.561	0.000	93	935084	10.0	9.71	
\$ 52 Dibromofluoromethane (Surr)	113	6.781	6.781	0.000	94	541882	10.0	9.97	
51 1,1,1-Trichloroethane	97	6.787	6.787	0.000	98	795686	10.0	9.65	
53 Cyclohexane	56	6.878	6.878	0.000	92	934696	10.0	9.86	
56 Carbon tetrachloride	117	6.988	6.988	0.000	96	699045	10.0	9.78	
55 1,1-Dichloropropene	75	7.000	7.000	0.000	95	750119	10.0	9.68	
57 Isobutyl alcohol	41	7.159	7.159	0.000	95	587299	500.0	462.4	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.238	7.238	0.000	0	116084	10.0	10.0	
59 Benzene	78	7.262	7.262	0.000	98	2218035	10.0	9.71	
60 1,2-Dichloroethane	62	7.336	7.336	0.000	97	588167	10.0	9.21	
62 Tert-amyl methyl ether	73	7.451	7.451	0.000	98	1588018	10.0	9.71	
* 63 Fluorobenzene (IS)	96	7.671	7.671	0.000	98	2246480	10.0	10.0	
64 n-Heptane	43	7.677	7.677	0.000	93	879279	10.0	9.92	
65 n-Butanol	56	8.043	8.043	0.000	90	1169293	1000.0	972.4	
67 Trichloroethene	95	8.146	8.146	0.000	99	566426	10.0	9.71	
68 Methylcyclohexane	83	8.451	8.451	0.000	94	888517	10.0	9.81	
69 1,2-Dichloropropane	63	8.482	8.482	0.000	98	594461	10.0	9.73	
70 2-ethoxy-2-methyl butane	87	8.488	8.488	0.000	91	881887	10.0	9.87	
72 1,4-Dioxane	88	8.561	8.561	0.000	33	116348	500.0	543.9	M
71 Methyl methacrylate	69	8.567	8.567	0.000	92	314713	10.0	9.94	
73 Dibromomethane	93	8.591	8.591	0.000	96	275323	10.0	9.72	
75 Dichlorobromomethane	83	8.829	8.829	0.000	100	706255	10.0	9.97	
76 2-Nitropropane	41	9.110	9.110	0.000	98	899063	100.0	100.1	
79 1-Bromo-2-chloroethane	63	9.219	9.219	0.000	99	632658	10.0	9.66	
80 cis-1,3-Dichloropropene	75	9.378	9.378	0.000	95	901197	10.0	9.80	
81 4-Methyl-2-pentanone (MIBK)	43	9.561	9.561	0.000	97	4346527	100.0	100.0	
\$ 82 Toluene-d8 (Surr)	98	9.689	9.689	0.000	94	2179039	10.0	9.98	
83 Toluene	92	9.762	9.762	0.000	97	1376073	10.0	9.70	
84 trans-1,3-Dichloropropene	75	10.024	10.024	0.000	94	765518	10.0	10.0	
85 Ethyl methacrylate	69	10.085	10.085	0.000	91	683673	10.0	9.94	
86 1,1,2-Trichloroethane	97	10.231	10.231	0.000	90	398053	10.0	9.62	
88 Tetrachloroethene	166	10.311	10.311	0.000	98	602059	10.0	9.79	
89 1,3-Dichloropropane	76	10.390	10.390	0.000	92	720295	10.0	9.65	
91 2-Hexanone	43	10.451	10.451	0.000	98	3134600	100.0	100.3	
93 Chlorodibromomethane	129	10.603	10.603	0.000	90	497877	10.0	10.1	
94 Ethylene Dibromide	107	10.713	10.713	0.000	98	396354	10.0	9.76	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	87	1636269	10.0	10.0	
96 1-Chlorohexane	91	11.158	11.158	0.000	98	791218	10.0	9.29	
97 Chlorobenzene	112	11.176	11.176	0.000	94	1541301	10.0	9.76	
98 1,1,1,2-Tetrachloroethane	131	11.256	11.256	0.000	95	561469	10.0	10.0	
99 Ethylbenzene	91	11.262	11.262	0.000	99	2703437	10.0	9.65	
100 m-Xylene & p-Xylene	106	11.377	11.377	0.000	97	2069783	20.0	19.6	
102 o-Xylene	106	11.707	11.707	0.000	97	1022577	10.0	9.76	
103 Styrene	104	11.719	11.719	0.000	95	1745400	10.0	9.78	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Bromoform	173	11.877	11.877	0.000	97	304248	10.0	10.6	
105 Isopropylbenzene	105	12.005	12.005	0.000	96	2679183	10.0	9.78	
\$ 108 4-Bromofluorobenzene (Surr)	95	12.146	12.146	0.000	89	829357	10.0	9.95	
109 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	92	553642	10.0	9.91	
110 Bromobenzene	156	12.268	12.268	0.000	95	654760	10.0	9.77	
111 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	92	1457770	100.0	108.1	
112 1,2,3-Trichloropropane	110	12.298	12.298	0.000	80	138980	10.0	9.76	
113 N-Propylbenzene	91	12.335	12.335	0.000	99	3236978	10.0	9.68	
114 2-Chlorotoluene	126	12.414	12.414	0.000	96	635163	10.0	9.66	
115 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	2319655	10.0	9.84	
116 4-Chlorotoluene	126	12.505	12.505	0.000	98	665842	10.0	9.71	
118 tert-Butylbenzene	134	12.713	12.713	0.000	93	490248	10.0	9.74	
120 Pentachloroethane	167	12.743	12.743	0.000	92	427979	10.0	9.89	
119 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	2411281	10.0	9.79	
121 sec-Butylbenzene	105	12.877	12.877	0.000	94	2999448	10.0	9.78	
122 1,3-Dichlorobenzene	146	12.975	12.975	0.000	98	1310582	10.0	9.69	
123 4-Isopropyltoluene	119	12.981	12.981	0.000	97	2609529	10.0	9.79	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	94	888382	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.048	13.048	0.000	94	1327411	10.0	9.64	
126 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	1037654	10.0	9.50	
127 Benzyl chloride	126	13.127	13.127	0.000	99	241370	10.0	10.0	
129 p-Diethylbenzene	119	13.182	13.182	0.000	92	1562547	10.0	9.65	
130 n-Butylbenzene	92	13.273	13.273	0.000	98	1374780	10.0	9.74	
131 1,2-Dichlorobenzene	146	13.310	13.310	0.000	98	1221855	10.0	9.69	
134 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	87	81816	10.0	10.1	
135 1,3,5-Trichlorobenzene	180	13.975	13.975	0.000	98	1106187	10.0	9.76	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	1016153	10.0	9.73	
137 Hexachlorobutadiene	225	14.481	14.481	0.000	96	494492	10.0	9.65	
138 Naphthalene	128	14.578	14.578	0.000	97	1828996	10.0	9.63	
139 1,2,3-Trichlorobenzene	180	14.718	14.718	0.000	96	888658	10.0	9.64	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	92	1290648	10.0	9.50	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00031

Amount Added: 10.00

Units: uL

MSV_RV4GAS826_00097

Amount Added: 10.00

Units: uL

MSV_RV4_826_00035

Amount Added: 10.00

Units: uL

MSV_29_826ISS_00013

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I02.D

Injection Date: 30-Nov-2020 13:12:30

Instrument ID: 16334

Operator ID: DVV10203

Lims ID: ICIS std6

Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

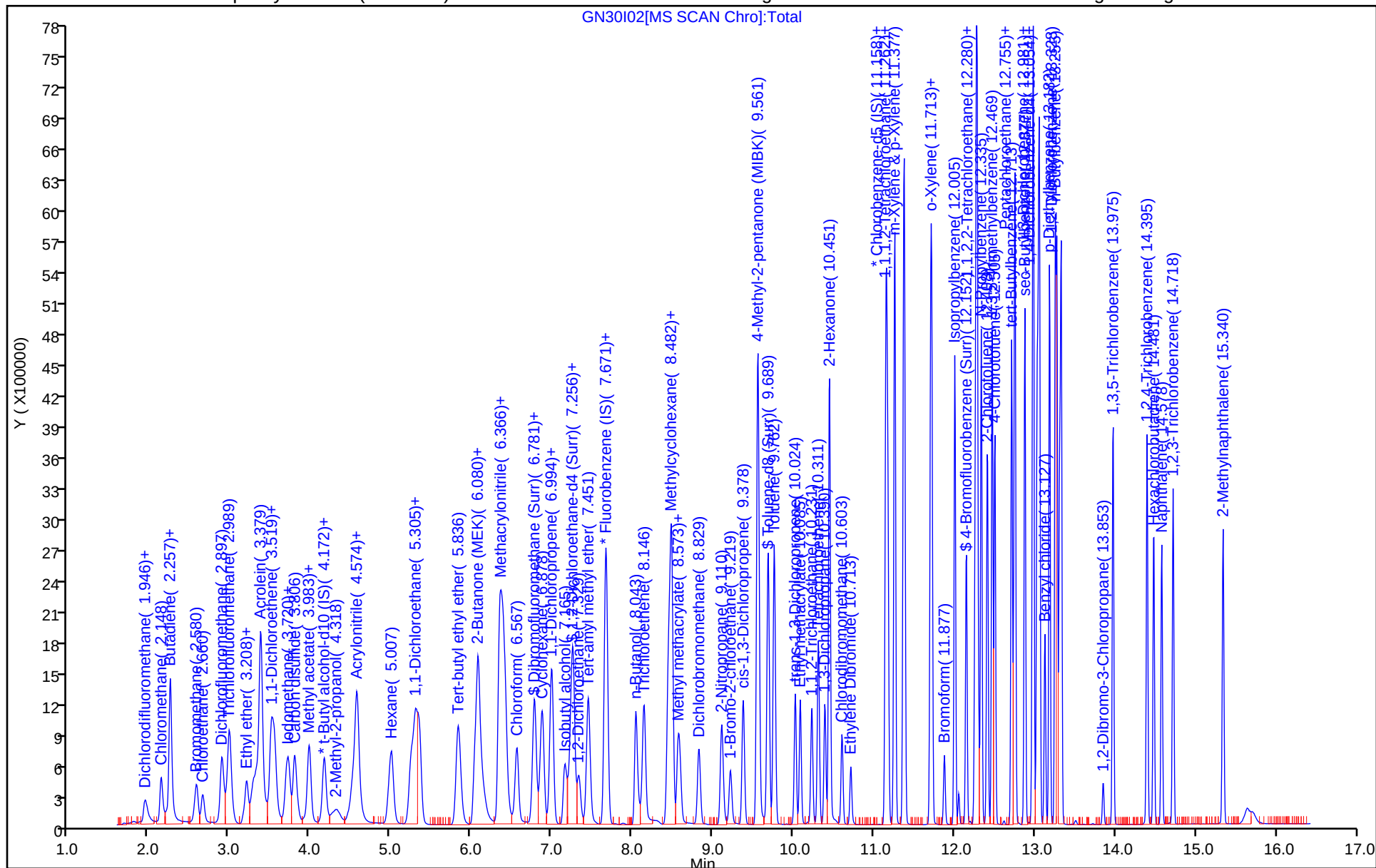
ALS Bottle#: 3

Method: MSV_16334_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 Env, LLC

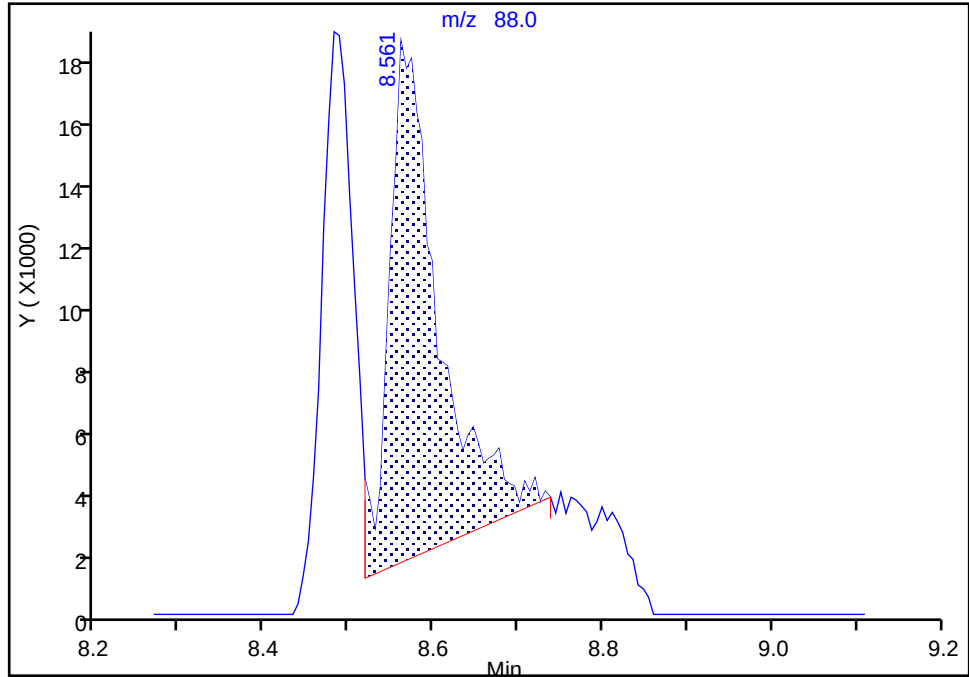
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Injection Date: 30-Nov-2020 13:12:30 Instrument ID: 16334
Lims ID: ICIS std6
Client ID:
Operator ID: DVV10203 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

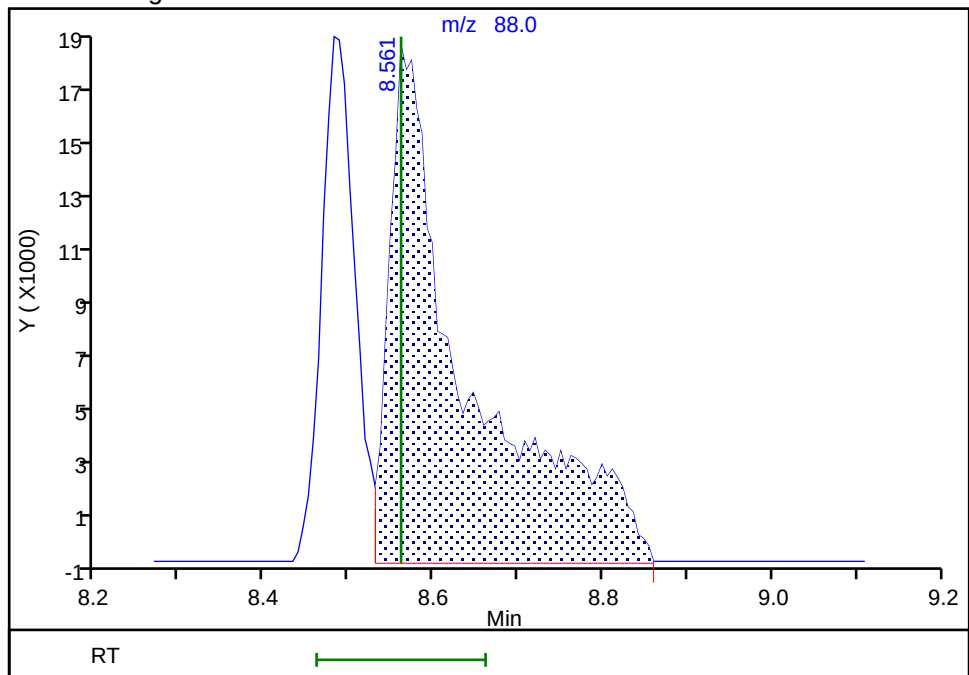
RT: 8.56
Area: 66720
Amount: 408.4380
Amount Units: ug/l

Processing Integration Results



RT: 8.56
Area: 116348
Amount: 543.8519
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:45:41
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I03.D
 Lims ID: IC std5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 30-Nov-2020 13:34:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0016641-005
 Misc. Info.: IC STD5
 Operator ID: DVV10203 Instrument ID: 16334
 Sublist: chrom-MSV_16334_25mL*sub4
 Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Dec-2020 18:57:21 Calib Date: 30-Nov-2020 18:23:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1610

First Level Reviewer: virayd

Date: 01-Dec-2020 11:48:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.941	1.952	-0.011	99	285502	5.00	4.93	
5 Chloromethane	50	2.136	2.148	-0.012	99	368365	5.00	4.72	
6 Butadiene	39	2.245	2.257	-0.012	96	400995	5.00	4.51	
7 Vinyl chloride	62	2.251	2.257	-0.006	97	322069	5.00	4.83	
9 Bromomethane	94	2.575	2.580	-0.005	90	221448	5.00	4.77	
10 Chloroethane	64	2.654	2.660	-0.006	100	196409	5.00	4.86	
11 Dichlorofluoromethane	67	2.892	2.897	-0.005	97	427842	5.00	4.72	
13 Trichlorofluoromethane	101	2.965	2.971	-0.006	97	385200	5.00	5.02	
15 Ethyl ether	59	3.202	3.208	-0.006	95	218165	5.00	4.82	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.294	3.294	0.000	94	302034	5.00	4.82	
18 Acrolein	56	3.373	3.379	-0.006	99	1726399	250.0	248.1	
19 1,1-Dichloroethene	96	3.507	3.513	-0.006	98	226327	5.00	4.88	
21 112TCTFE	101	3.544	3.550	-0.006	92	243555	5.00	5.37	
20 Acetone	43	3.544	3.550	-0.006	100	406309	50.0	45.2	
22 Iodomethane	142	3.696	3.702	-0.006	98	426388	5.00	4.92	
23 Isopropyl alcohol	45	3.715	3.727	-0.012	96	158997	100.0	90.1	
24 Ethyl bromide	108	3.727	3.733	-0.006	98	200380	5.00	4.96	
25 Carbon disulfide	76	3.794	3.806	-0.012	99	845631	5.00	4.95	
26 Methyl acetate	43	3.958	3.964	-0.006	98	130819	5.00	4.80	
27 3-Chloro-1-propene	41	3.977	3.989	-0.012	93	443750	5.00	4.78	
28 Methylene Chloride	84	4.166	4.172	-0.006	94	260868	5.00	4.91	
* 29 t-Butyl alcohol-d10 (IS)	65	4.178	4.208	-0.030	0	183343	50.0	50.0	
30 2-Methyl-2-propanol	59	4.306	4.318	-0.012	100	325105	100.0	98.6	M
31 Acrylonitrile	53	4.513	4.519	-0.006	98	296709	25.0	25.5	
32 Methyl tert-butyl ether	73	4.562	4.574	-0.012	95	716859	5.00	4.87	
33 trans-1,2-Dichloroethene	96	4.568	4.580	-0.012	97	258856	5.00	4.85	
34 Hexane	57	5.001	5.007	-0.006	94	411619	5.00	5.29	
36 1,1-Dichloroethane	63	5.239	5.245	-0.006	96	485770	5.00	4.90	
37 Isopropyl ether	45	5.294	5.299	-0.005	96	980101	5.00	4.86	
38 2-Chloro-1,3-butadiene	53	5.342	5.354	-0.012	91	441551	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
39 Tert-butyl ethyl ether	59	5.830	5.836	-0.006	99	903460	5.00	4.92	
40 2-Butanone (MEK)	43	6.037	6.043	-0.006	100	828352	50.0	49.7	
41 cis-1,2-Dichloroethene	96	6.080	6.080	0.000	83	293028	5.00	4.89	
42 2,2-Dichloropropane	77	6.086	6.092	-0.006	88	407651	5.00	4.91	
44 Propionitrile	54	6.147	6.147	0.000	99	406595	100.0	98.4	
S 49 1,2-Dichloroethene, Total	100				0			9.74	
46 Methacrylonitrile	67	6.348	6.354	-0.006	94	766425	50.0	50.0	
48 Chlorobromomethane	128	6.403	6.409	-0.006	69	130627	5.00	4.89	
47 Tetrahydrofuran	71	6.403	6.421	-0.018	82	215770	50.0	50.1	
50 Chloroform	83	6.556	6.561	-0.005	93	467191	5.00	4.89	
\$ 52 Dibromofluoromethane (Surr)	113	6.775	6.781	-0.006	94	540338	10.0	10.0	
51 1,1,1-Trichloroethane	97	6.781	6.787	-0.006	98	396057	5.00	4.85	
53 Cyclohexane	56	6.879	6.878	0.001	92	485144	5.00	5.17	
56 Carbon tetrachloride	117	6.988	6.988	0.000	97	346656	5.00	4.89	
55 1,1-Dichloropropene	75	6.994	7.000	-0.006	97	375317	5.00	4.89	
57 Isobutyl alcohol	41	7.153	7.159	-0.006	95	292232	250.0	232.2	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.226	7.238	-0.012	0	113626	10.0	9.91	
59 Benzene	78	7.263	7.262	0.001	97	1100869	5.00	4.87	
60 1,2-Dichloroethane	62	7.330	7.336	-0.006	97	295549	5.00	4.67	M
62 Tert-amyl methyl ether	73	7.446	7.451	-0.005	98	788786	5.00	4.87	
* 63 Fluorobenzene (IS)	96	7.665	7.671	-0.006	98	2225560	10.0	10.0	
64 n-Heptane	43	7.671	7.677	-0.006	94	463712	5.00	5.28	
65 n-Butanol	56	8.043	8.043	0.000	89	586370	500.0	495.0	
67 Trichloroethene	95	8.141	8.146	-0.005	99	278479	5.00	4.82	
68 Methylcyclohexane	83	8.445	8.451	-0.006	94	457689	5.00	5.10	
69 1,2-Dichloropropane	63	8.476	8.482	-0.006	97	292517	5.00	4.83	
70 2-ethoxy-2-methyl butane	87	8.482	8.488	-0.006	91	435122	5.00	4.92	
72 1,4-Dioxane	88	8.573	8.561	0.012	33	57308	250.0	271.9	M
71 Methyl methacrylate	69	8.567	8.567	0.000	92	157779	5.00	5.06	
73 Dibromomethane	93	8.586	8.591	-0.005	96	135590	5.00	4.83	
75 Dichlorobromomethane	83	8.823	8.829	-0.006	100	343988	5.00	4.90	
76 2-Nitropropane	41	9.110	9.110	0.000	97	446843	50.0	50.5	
79 1-Bromo-2-chloroethane	63	9.214	9.219	-0.005	98	323185	5.00	4.98	
80 cis-1,3-Dichloropropene	75	9.372	9.378	-0.006	95	449091	5.00	4.93	
81 4-Methyl-2-pentanone (MIBK)	43	9.555	9.561	-0.006	97	2154238	50.0	50.3	
\$ 82 Toluene-d8 (Surr)	98	9.683	9.689	-0.006	94	2162628	10.0	10.1	
83 Toluene	92	9.762	9.762	0.000	98	683495	5.00	4.89	
84 trans-1,3-Dichloropropene	75	10.024	10.024	0.000	94	378649	5.00	5.02	
S 87 1,3-Dichloropropene, Total	100				0			9.95	
85 Ethyl methacrylate	69	10.085	10.085	0.000	91	332561	5.00	4.91	
86 1,1,2-Trichloroethane	97	10.232	10.231	0.001	90	197601	5.00	4.85	
88 Tetrachloroethene	166	10.311	10.311	0.000	97	298979	5.00	4.93	
89 1,3-Dichloropropane	76	10.390	10.390	0.000	92	358460	5.00	4.88	
91 2-Hexanone	43	10.445	10.451	-0.006	98	1570233	50.0	51.0	
93 Chlorodibromomethane	129	10.603	10.603	0.000	91	243007	5.00	5.03	
94 Ethylene Dibromide	107	10.713	10.713	0.000	98	196846	5.00	4.92	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	86	1611346	10.0	10.0	
96 1-Chlorohexane	91	11.158	11.158	0.000	98	396805	5.00	4.73	
97 Chlorobenzene	112	11.170	11.176	-0.006	94	760248	5.00	4.89	
S 101 Xylenes, Total	106				0			14.8	
98 1,1,1,2-Tetrachloroethane	131	11.256	11.256	0.000	96	275804	5.00	4.99	
99 Ethylbenzene	91	11.262	11.262	0.000	99	1345750	5.00	4.88	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.372	11.377	-0.005	97	1025168	10.0	9.86	
102 o-Xylene	106	11.707	11.707	0.000	97	504969	5.00	4.90	
103 Styrene	104	11.719	11.719	0.000	94	861952	5.00	4.90	
104 Bromoform	173	11.878	11.877	0.001	97	146803	5.00	5.20	
105 Isopropylbenzene	105	12.006	12.005	0.001	96	1331001	5.00	4.93	
\$ 108 4-Bromofluorobenzene (Surr)	95	12.146	12.146	0.000	89	820021	10.0	10.0	
109 1,1,2,2-Tetrachloroethane	83	12.256	12.255	0.001	91	273837	5.00	4.96	
110 Bromobenzene	156	12.268	12.268	0.000	95	320859	5.00	4.84	
111 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	91	701899	50.0	52.8	
112 1,2,3-Trichloropropane	110	12.298	12.298	0.000	79	67388	5.00	4.79	
113 N-Propylbenzene	91	12.335	12.335	0.000	99	1623321	5.00	4.91	
114 2-Chlorotoluene	126	12.408	12.414	-0.006	96	316960	5.00	4.87	
115 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	1154535	5.00	4.95	
116 4-Chlorotoluene	126	12.506	12.505	0.001	98	329404	5.00	4.86	
118 tert-Butylbenzene	134	12.713	12.713	0.000	93	244744	5.00	4.91	
120 Pentachloroethane	167	12.743	12.743	0.000	90	213871	5.00	4.99	
119 1,2,4-Trimethylbenzene	105	12.756	12.755	0.001	97	1190575	5.00	4.89	
121 sec-Butylbenzene	105	12.877	12.877	0.000	94	1489422	5.00	4.91	
122 1,3-Dichlorobenzene	146	12.975	12.975	0.000	98	650429	5.00	4.86	
123 4-Isopropyltoluene	119	12.981	12.981	0.000	97	1294886	5.00	4.91	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	95	878834	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.048	13.048	0.000	94	664687	5.00	4.88	
126 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	99	518339	5.00	4.80	
127 Benzyl chloride	126	13.127	13.127	0.000	98	119235	5.00	4.99	
129 p-Diethylbenzene	119	13.182	13.182	0.000	92	785877	5.00	4.91	
130 n-Butylbenzene	92	13.274	13.273	0.001	96	677396	5.00	4.85	
131 1,2-Dichlorobenzene	146	13.310	13.310	0.000	98	604314	5.00	4.84	
134 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	85	38959	5.00	4.84	
135 1,3,5-Trichlorobenzene	180	13.975	13.975	0.000	98	546533	5.00	4.88	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	499550	5.00	4.84	
137 Hexachlorobutadiene	225	14.481	14.481	0.000	97	245031	5.00	4.83	
138 Naphthalene	128	14.578	14.578	0.000	97	907383	5.00	4.83	
139 1,2,3-Trichlorobenzene	180	14.719	14.718	0.001	95	436916	5.00	4.79	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	92	648031	5.00	4.82	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00031
 MSV_RV4GAS826_00097
 MSV_RV4_826_00035
 MSV_29_826ISS_00013

Amount Added: 5.00
 Amount Added: 5.00
 Amount Added: 5.00
 Amount Added: 1.00

Units: uL
 Units: uL
 Units: uL
 Units: uL

Run Reagent

Report Date: 01-Dec-2020 18:57:23

Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I03.D

Injection Date: 30-Nov-2020 13:34:30

Instrument ID: 16334

Operator ID: DVV10203

Lims ID: IC std5

Worklist Smp#: 5

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

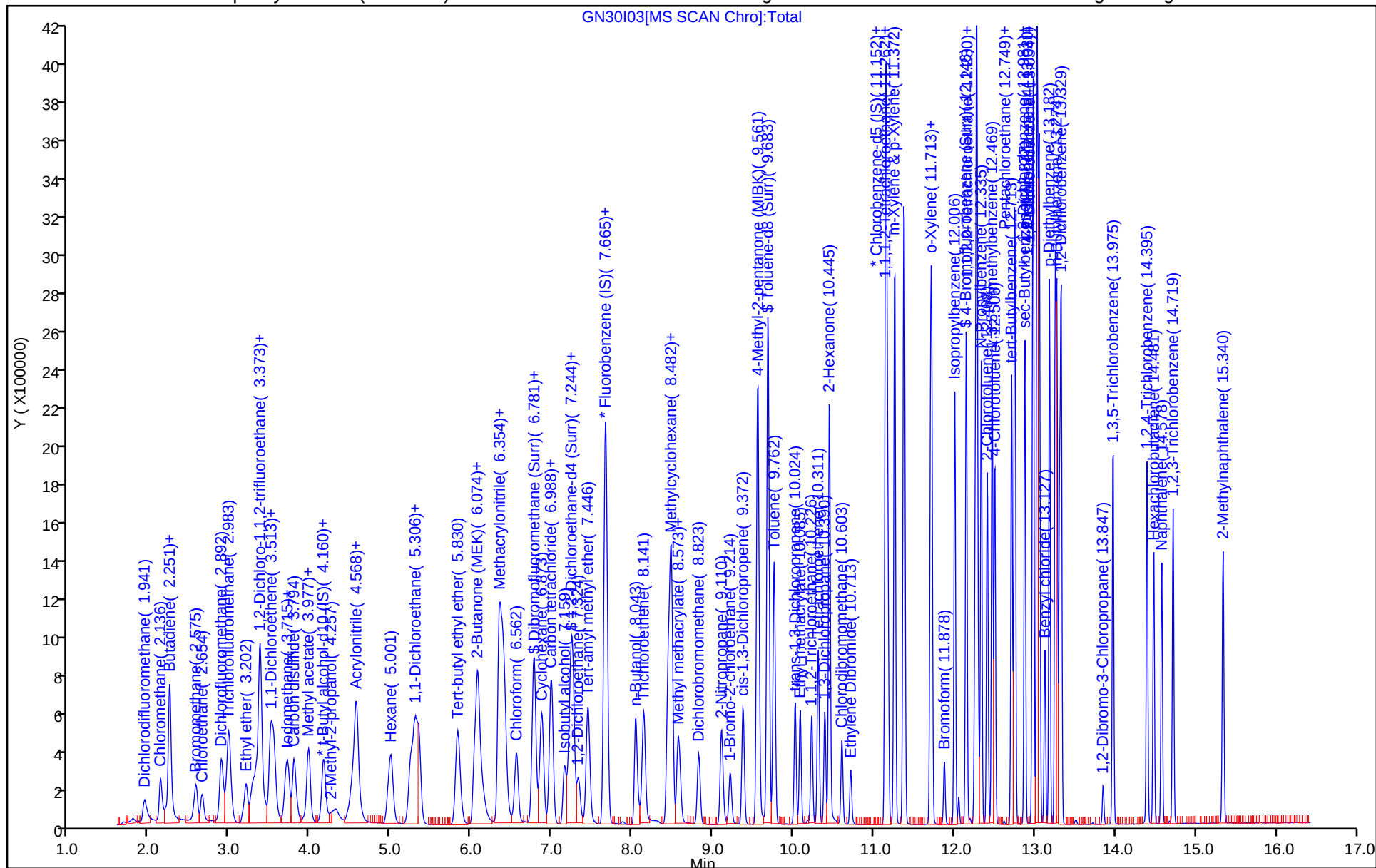
ALS Bottle#: 4

Method: MSV_16334_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 Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I03.D

Injection Date: 30-Nov-2020 13:34:30

Instrument ID: 16334

Lims ID: IC std5

Client ID:

Operator ID: DVV10203

ALS Bottle#:

4

Worklist Smp#: 5

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

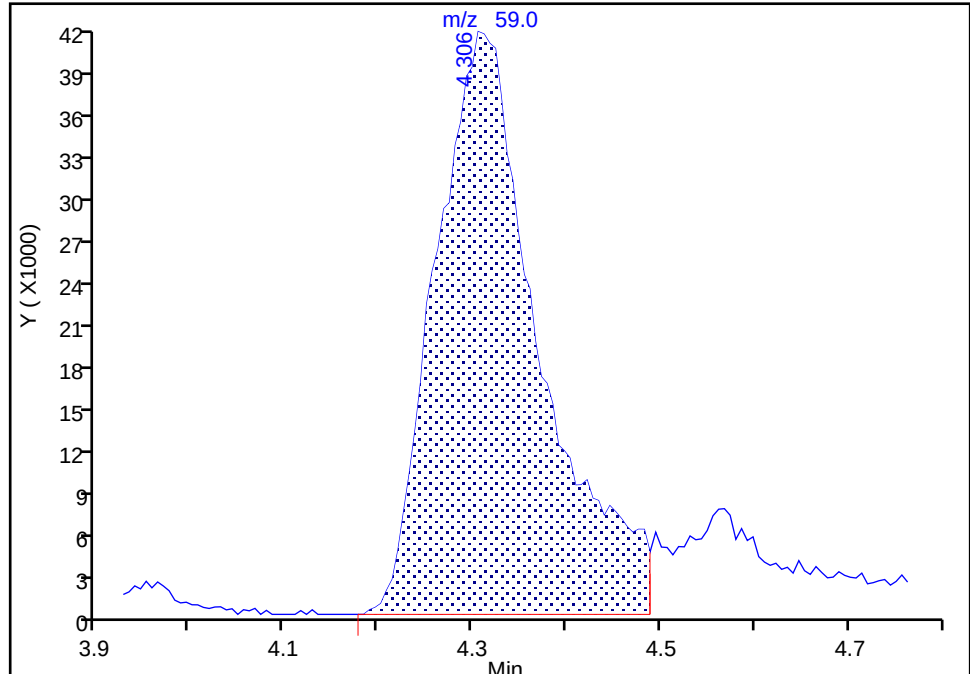
MS Quad

30 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

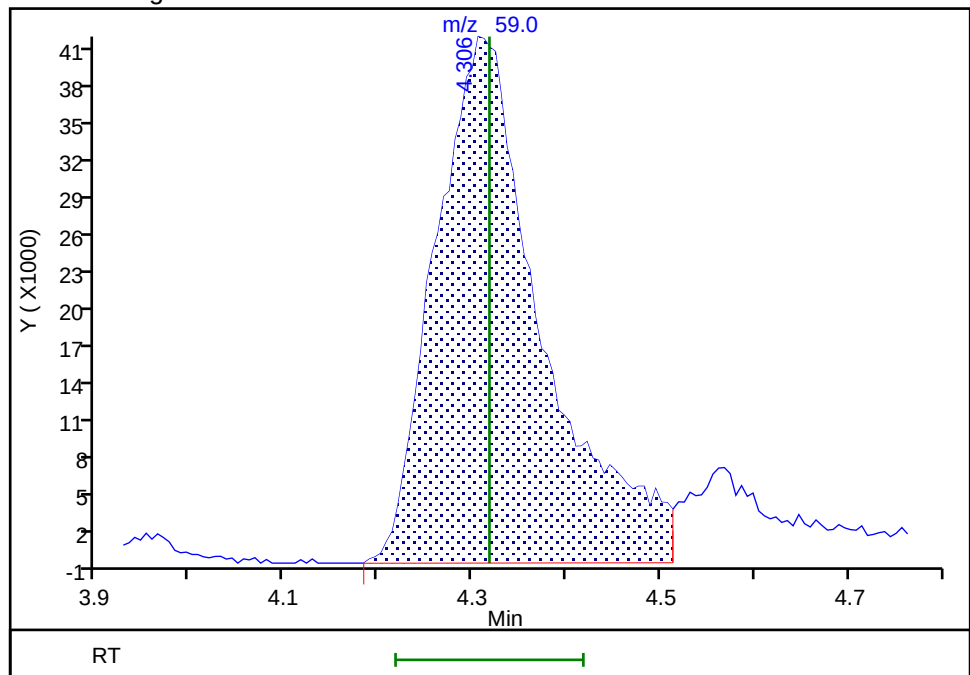
RT: 4.31
Area: 318169
Amount: 99.986734
Amount Units: ug/l

Processing Integration Results



RT: 4.31
Area: 325105
Amount: 98.618521
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:47:24

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

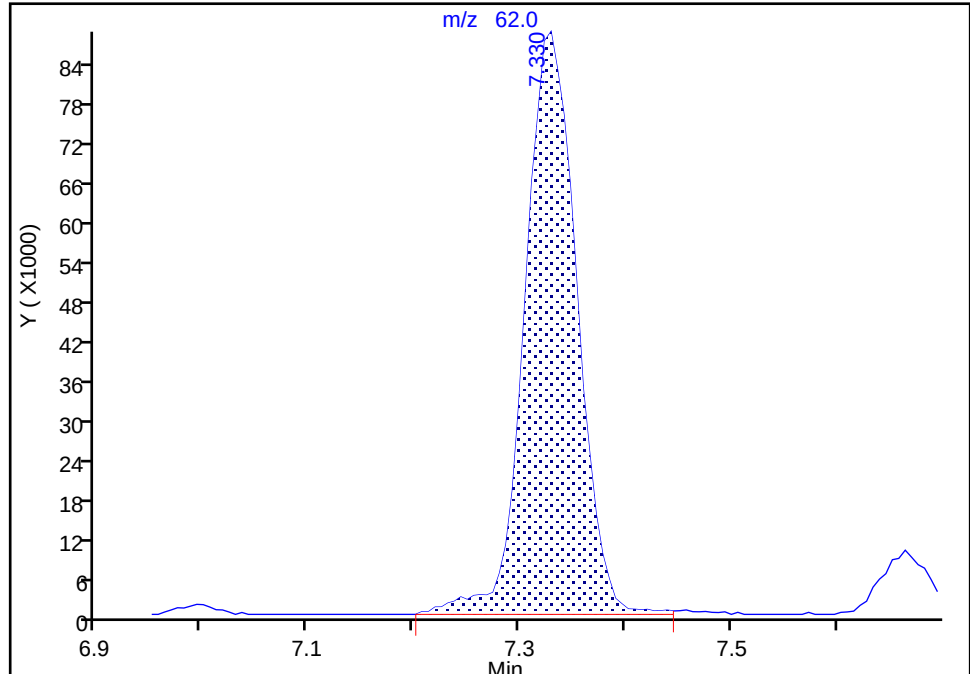
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Injection Date: 30-Nov-2020 13:34:30 Instrument ID: 16334
Lims ID: IC std5
Client ID:
Operator ID: DVV10203 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

60 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

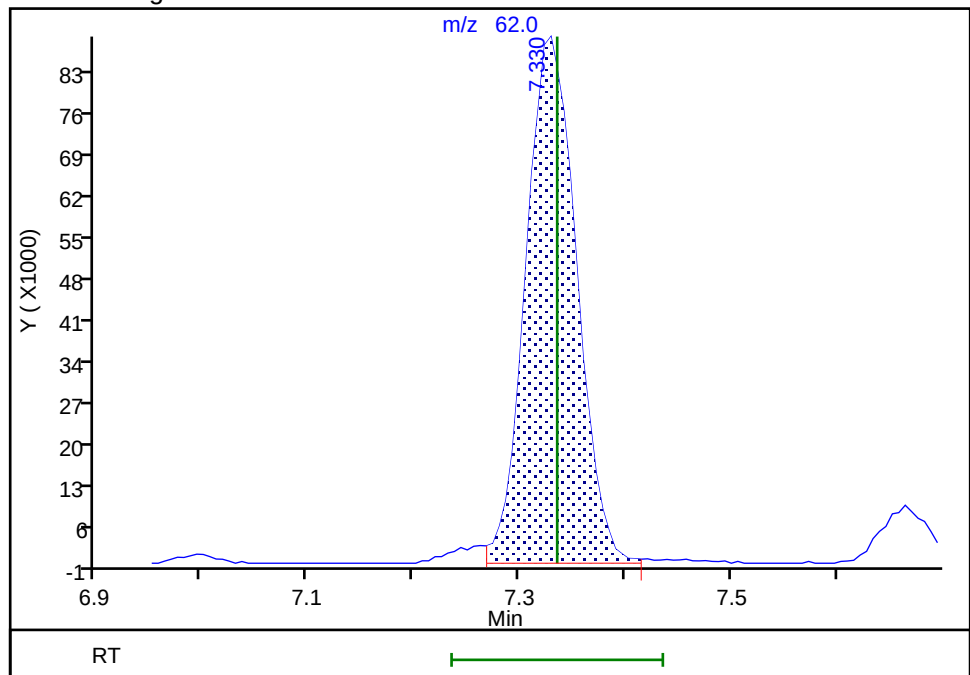
RT: 7.33
Area: 303046
Amount: 4.773793
Amount Units: ug/l

Processing Integration Results



RT: 7.33
Area: 295549
Amount: 4.671457
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:47:41
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

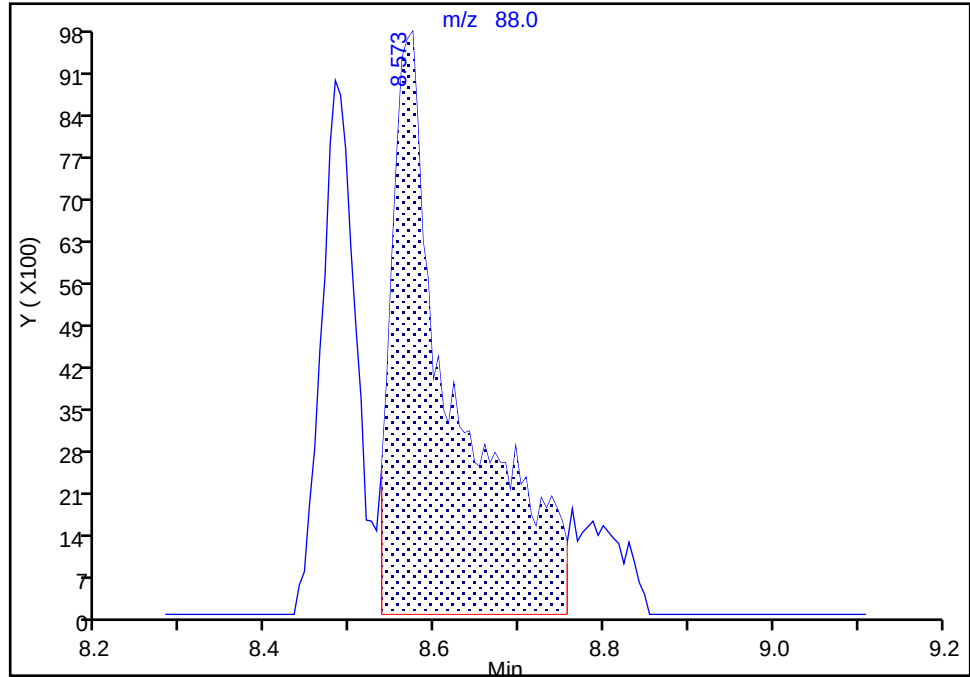
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I03.D
Injection Date: 30-Nov-2020 13:34:30 Instrument ID: 16334
Lims ID: IC std5
Client ID:
Operator ID: DVV10203 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

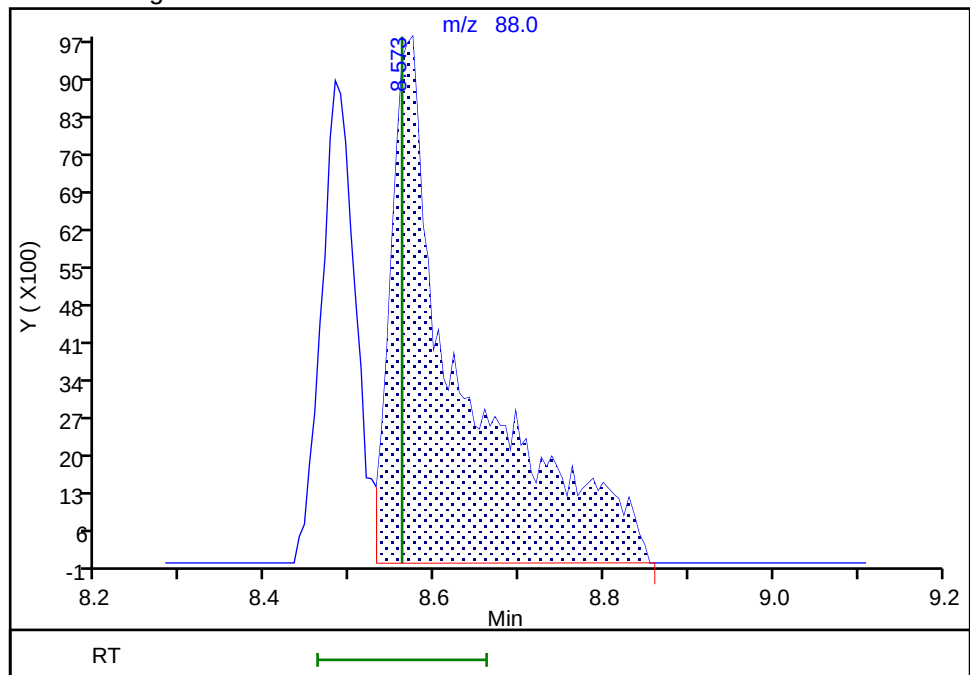
RT: 8.57
Area: 50236
Amount: 287.2121
Amount Units: ug/l

Processing Integration Results



RT: 8.57
Area: 57308
Amount: 271.8974
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:47:52
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I04.D
 Lims ID: IC std4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 30-Nov-2020 13:56:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0016641-006
 Misc. Info.: IC STD4
 Operator ID: DVV10203 Instrument ID: 16334
 Sublist: chrom-MSV_16334_25mL*sub4
 Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Dec-2020 18:57:32 Calib Date: 30-Nov-2020 18:23:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1610

First Level Reviewer: virayd

Date: 01-Dec-2020 11:50:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.953	1.953	0.000	99	119710	2.00	2.08	
5 Chloromethane	50	2.148	2.148	0.000	99	154159	2.00	1.99	
6 Butadiene	39	2.264	2.264	0.000	95	172137	2.00	1.95	
7 Vinyl chloride	62	2.270	2.270	0.000	98	134133	2.00	2.03	
9 Bromomethane	94	2.593	2.593	0.000	90	92413	2.00	2.00	
10 Chloroethane	64	2.666	2.666	0.000	99	81099	2.00	2.02	
11 Dichlorofluoromethane	67	2.904	2.904	0.000	97	177022	2.00	1.97	
13 Trichlorofluoromethane	101	2.977	2.977	0.000	97	160183	2.00	2.10	
15 Ethyl ether	59	3.208	3.208	0.000	94	93021	2.00	2.07	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.300	3.300	0.000	95	124813	2.00	2.00	
18 Acrolein	56	3.385	3.385	0.000	99	734398	100.0	99.1	
19 1,1-Dichloroethene	96	3.519	3.519	0.000	97	90732	2.00	1.97	
21 112TCTFE	101	3.556	3.556	0.000	92	97294	2.00	2.16	
20 Acetone	43	3.562	3.562	0.000	99	173204	20.0	18.1	
22 Iodomethane	142	3.714	3.714	0.000	98	173875	2.00	2.02	
23 Isopropyl alcohol	45	3.727	3.727	0.000	45	68119	40.0	38.9	
24 Ethyl bromide	108	3.739	3.739	0.000	98	81572	2.00	2.03	
25 Carbon disulfide	76	3.812	3.812	0.000	99	343343	2.00	2.02	
26 Methyl acetate	43	3.971	3.971	0.000	99	58429	2.00	2.01	M
27 3-Chloro-1-propene	41	3.989	3.989	0.000	93	183197	2.00	1.99	
28 Methylene Chloride	84	4.178	4.178	0.000	94	108056	2.00	2.05	
* 29 t-Butyl alcohol-d10 (IS)	65	4.214	4.214	0.000	0	195329	50.0	50.0	
30 2-Methyl-2-propanol	59	4.336	4.336	0.000	100	140629	40.0	40.0	M
31 Acrylonitrile	53	4.525	4.525	0.000	98	120047	10.0	9.68	
32 Methyl tert-butyl ether	73	4.580	4.580	0.000	96	295684	2.00	2.02	
33 trans-1,2-Dichloroethene	96	4.586	4.586	0.000	97	108056	2.00	2.04	
34 Hexane	57	5.007	5.007	0.000	94	166559	2.00	2.16	
36 1,1-Dichloroethane	63	5.251	5.251	0.000	96	198755	2.00	2.02	
37 Isopropyl ether	45	5.306	5.306	0.000	96	403335	2.00	2.02	
38 2-Chloro-1,3-butadiene	53	5.360	5.360	0.000	91	180575	2.00	2.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.836	5.836	0.000	98	363795	2.00	1.99	
40 2-Butanone (MEK)	43	6.049	6.049	0.000	100	341451	20.0	19.2	
41 cis-1,2-Dichloroethene	96	6.086	6.086	0.000	83	120745	2.00	2.03	
42 2,2-Dichloropropane	77	6.092	6.092	0.000	87	166142	2.00	2.01	
44 Propionitrile	54	6.147	6.147	0.000	99	174294	40.0	39.6	
S 49 1,2-Dichloroethene, Total	100				0			4.07	
46 Methacrylonitrile	67	6.360	6.360	0.000	94	317768	20.0	19.5	
48 Chlorobromomethane	128	6.409	6.409	0.000	68	52433	2.00	1.98	
47 Tetrahydrofuran	71	6.409	6.409	0.000	89	89573	20.0	19.5	
50 Chloroform	83	6.561	6.561	0.000	93	191526	2.00	2.02	
\$ 52 Dibromofluoromethane (Surr)	113	6.781	6.781	0.000	94	536748	10.0	10.0	
51 1,1,1-Trichloroethane	97	6.787	6.787	0.000	97	162606	2.00	2.00	
53 Cyclohexane	56	6.878	6.878	0.000	93	196628	2.00	2.11	
56 Carbon tetrachloride	117	7.000	7.000	0.000	86	141008	2.00	2.00	
55 1,1-Dichloropropene	75	7.000	7.000	0.000	95	155596	2.00	2.04	
57 Isobutyl alcohol	41	7.165	7.165	0.000	95	121267	100.0	97.0	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.232	7.232	0.000	0	114415	10.0	10.1	
59 Benzene	78	7.263	7.263	0.000	95	455295	2.00	2.03	
60 1,2-Dichloroethane	62	7.336	7.336	0.000	97	122885	2.00	1.96	
62 Tert-amyl methyl ether	73	7.458	7.458	0.000	98	324674	2.00	2.02	
* 63 Fluorobenzene (IS)	96	7.671	7.671	0.000	98	2210035	10.0	10.0	
64 n-Heptane	43	7.677	7.677	0.000	93	181073	2.00	2.08	
65 n-Butanol	56	8.049	8.049	0.000	90	248576	200.0	196.9	
67 Trichloroethene	95	8.147	8.147	0.000	99	116383	2.00	2.03	
68 Methylcyclohexane	83	8.451	8.451	0.000	93	182602	2.00	2.05	
69 1,2-Dichloropropane	63	8.482	8.482	0.000	94	119367	2.00	1.99	
70 2-ethoxy-2-methyl butane	87	8.488	8.488	0.000	89	176797	2.00	2.01	
72 1,4-Dioxane	88	8.567	8.567	0.000	33	26270	100.0	117.0	M
71 Methyl methacrylate	69	8.567	8.567	0.000	94	64887	2.00	1.95	
73 Dibromomethane	93	8.585	8.585	0.000	95	55304	2.00	1.99	
75 Dichlorobromomethane	83	8.823	8.823	0.000	100	140150	2.00	2.01	
76 2-Nitropropane	41	9.110	9.110	0.000	98	180791	20.0	19.2	
79 1-Bromo-2-chloroethane	63	9.219	9.219	0.000	99	130329	2.00	2.02	
80 cis-1,3-Dichloropropene	75	9.378	9.378	0.000	95	181945	2.00	2.01	
81 4-Methyl-2-pentanone (MIBK)	43	9.561	9.561	0.000	98	887415	20.0	19.5	
\$ 82 Toluene-d8 (Surr)	98	9.689	9.689	0.000	94	2136446	10.0	9.98	
83 Toluene	92	9.762	9.762	0.000	98	278591	2.00	2.00	
84 trans-1,3-Dichloropropene	75	10.024	10.024	0.000	94	150936	2.00	2.01	
S 87 1,3-Dichloropropene, Total	100				0			4.02	
85 Ethyl methacrylate	69	10.085	10.085	0.000	91	137503	2.00	2.04	
86 1,1,2-Trichloroethane	97	10.231	10.231	0.000	90	81260	2.00	2.00	
88 Tetrachloroethene	166	10.311	10.311	0.000	98	121696	2.00	2.02	
89 1,3-Dichloropropane	76	10.396	10.396	0.000	92	145956	2.00	1.99	
91 2-Hexanone	43	10.451	10.451	0.000	98	645054	20.0	19.7	
93 Chlorodibromomethane	129	10.603	10.603	0.000	90	97381	2.00	2.02	
94 Ethylene Dibromide	107	10.713	10.713	0.000	98	80460	2.00	2.02	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	87	1604620	10.0	10.0	
96 1-Chlorohexane	91	11.158	11.158	0.000	97	162251	2.00	1.94	
97 Chlorobenzene	112	11.176	11.176	0.000	95	310565	2.00	2.01	
S 101 Xylenes, Total	106				0			6.02	
98 1,1,1,2-Tetrachloroethane	131	11.256	11.256	0.000	95	111642	2.00	2.03	
99 Ethylbenzene	91	11.262	11.262	0.000	99	548965	2.00	2.00	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.378	11.378	0.000	97	418534	4.00	4.04	
102 o-Xylene	106	11.707	11.707	0.000	97	203530	2.00	1.98	
103 Styrene	104	11.719	11.719	0.000	95	354894	2.00	2.03	
104 Bromoform	173	11.877	11.877	0.000	97	57245	2.00	2.04	
105 Isopropylbenzene	105	12.006	12.006	0.000	96	542248	2.00	2.02	
\$ 108 4-Bromofluorobenzene (Surr)	95	12.152	12.152	0.000	90	818494	10.0	10.0	
109 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	92	111748	2.00	2.05	
110 Bromobenzene	156	12.268	12.268	0.000	96	132263	2.00	2.02	
111 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	92	278293	20.0	19.7	
112 1,2,3-Trichloropropane	110	12.304	12.304	0.000	83	28491	2.00	2.05	
113 N-Propylbenzene	91	12.335	12.335	0.000	99	661944	2.00	2.02	
114 2-Chlorotoluene	126	12.414	12.414	0.000	96	130139	2.00	2.02	
115 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	466416	2.00	2.02	
116 4-Chlorotoluene	126	12.505	12.505	0.000	98	133168	2.00	1.99	
118 tert-Butylbenzene	134	12.713	12.713	0.000	93	97199	2.00	1.97	
120 Pentachloroethane	167	12.743	12.743	0.000	92	85685	2.00	2.02	
119 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	482620	2.00	2.00	
121 sec-Butylbenzene	105	12.877	12.877	0.000	94	603955	2.00	2.01	
122 1,3-Dichlorobenzene	146	12.975	12.975	0.000	98	266406	2.00	2.01	
123 4-Isopropyltoluene	119	12.981	12.981	0.000	97	518846	2.00	1.99	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	96	869181	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.048	13.048	0.000	96	271182	2.00	2.01	
126 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	99	214525	2.00	2.01	
127 Benzyl chloride	126	13.127	13.127	0.000	99	46895	2.00	1.98	
129 p-Diethylbenzene	119	13.182	13.182	0.000	92	319745	2.00	2.02	
130 n-Butylbenzene	92	13.274	13.274	0.000	97	275706	2.00	2.00	
131 1,2-Dichlorobenzene	146	13.310	13.310	0.000	98	249800	2.00	2.02	
134 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	79	15596	2.00	1.96	
135 1,3,5-Trichlorobenzene	180	13.975	13.975	0.000	98	215623	2.00	1.95	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	202142	2.00	1.98	
137 Hexachlorobutadiene	225	14.481	14.481	0.000	97	96356	2.00	1.92	
138 Naphthalene	128	14.578	14.578	0.000	97	374308	2.00	2.01	
139 1,2,3-Trichlorobenzene	180	14.718	14.718	0.000	95	178820	2.00	1.98	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	92	267358	2.00	2.01	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00031
 MSV_RV4GAS826_00097
 MSV_RV4_826_00035
 MSV_29_826ISS_00013

Amount Added: 2.00
 Amount Added: 2.00
 Amount Added: 2.00
 Amount Added: 1.00

Units: uL
 Units: uL
 Units: uL
 Units: uL

Run Reagent

Report Date: 01-Dec-2020 18:57:34

Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I04.D

Injection Date: 30-Nov-2020 13:56:30

Instrument ID: 16334

Operator ID: DVV10203

Lims ID: IC std4

Worklist Smp#: 6

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

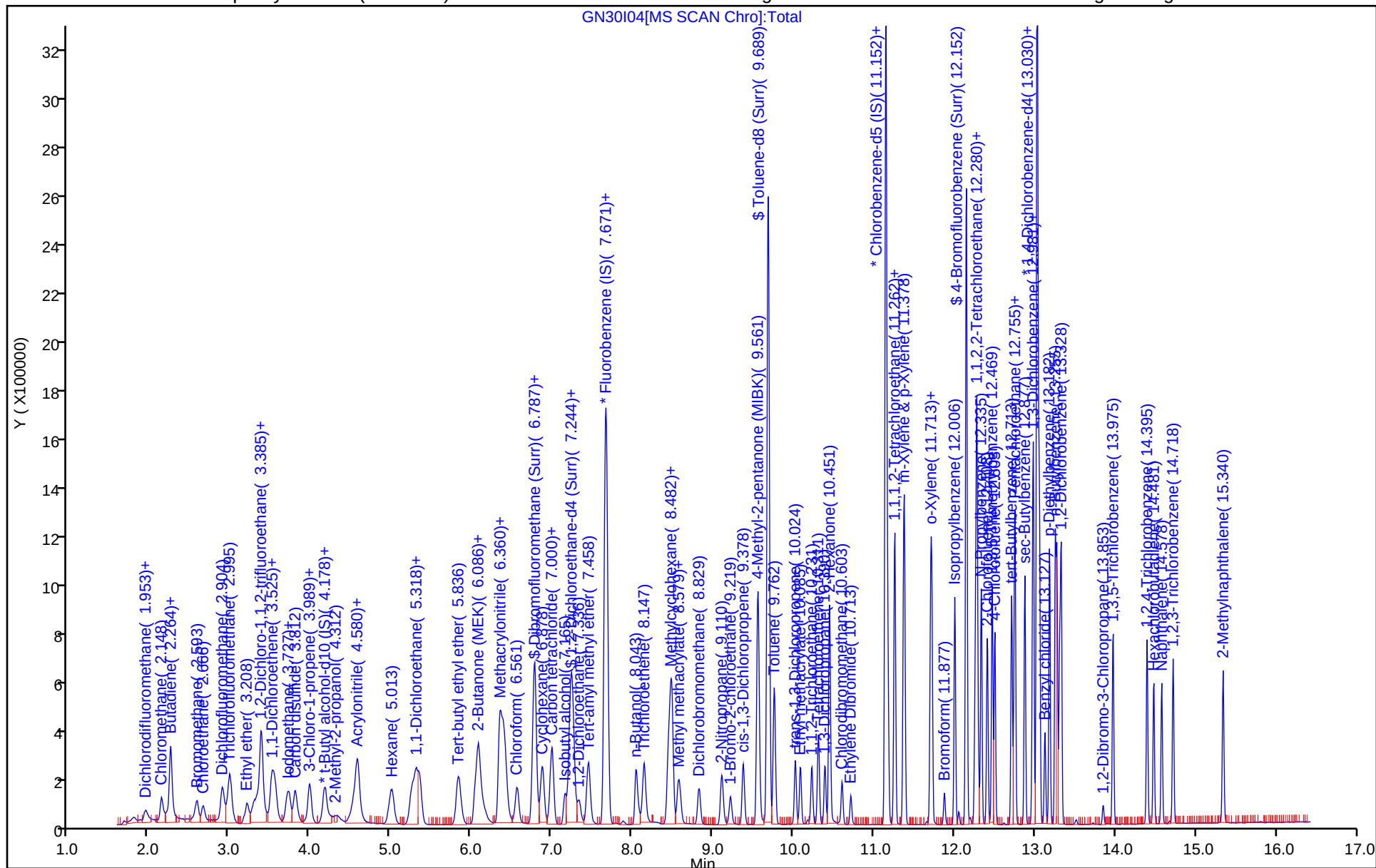
ALS Bottle#: 5

Method: MSV_16334_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 Env, LLC

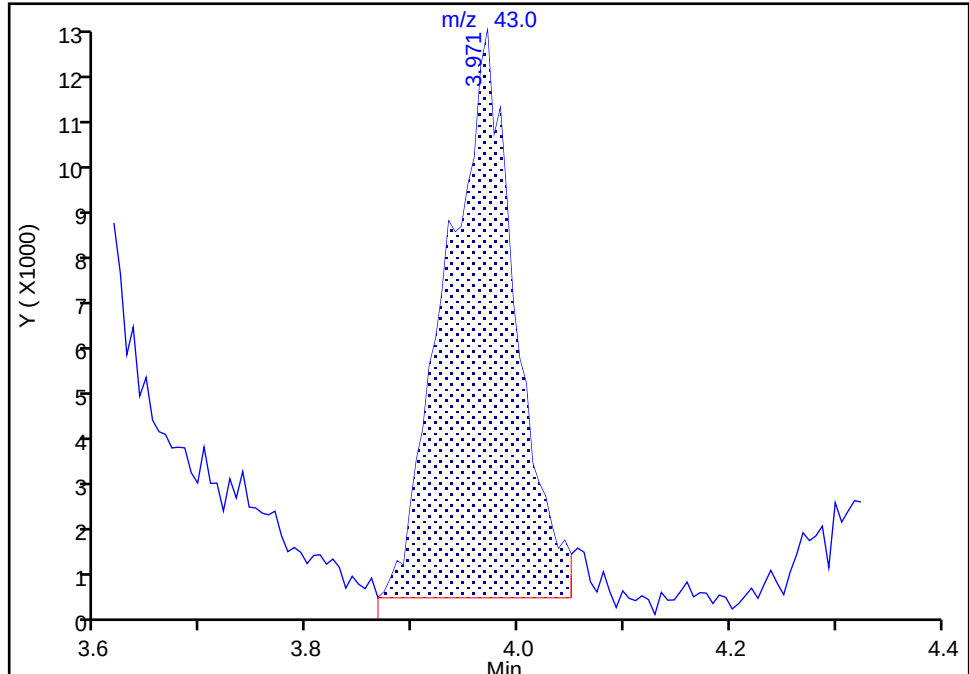
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Injection Date: 30-Nov-2020 13:56:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: DVV10203 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

26 Methyl acetate, CAS: 79-20-9

Signal: 1

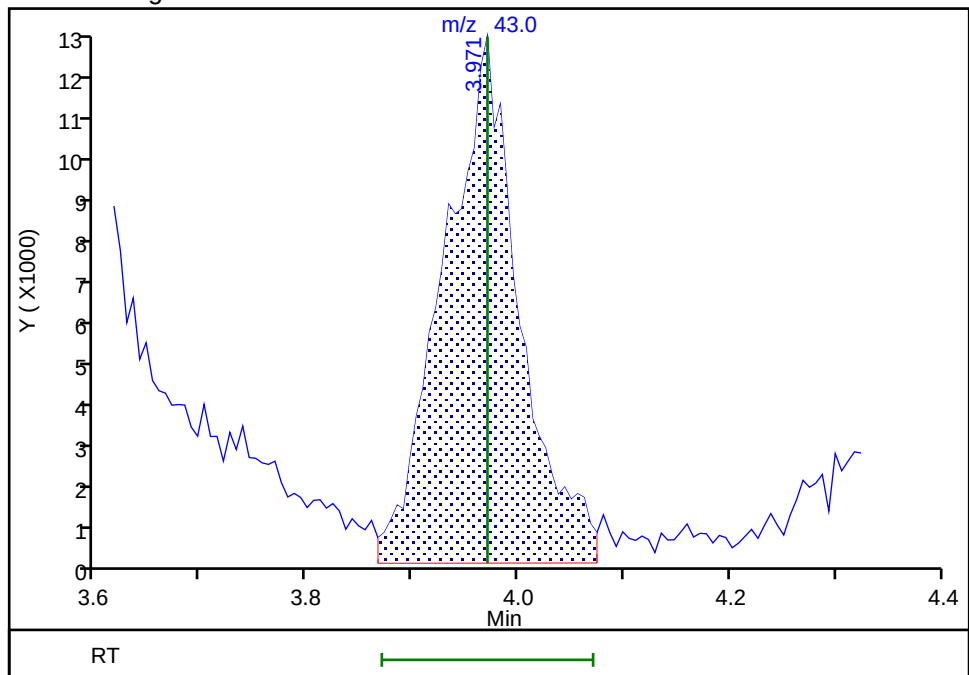
RT: 3.97
Area: 50433
Amount: 2.026094
Amount Units: ug/l

Processing Integration Results



RT: 3.97
Area: 58429
Amount: 2.013897
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:49:22
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

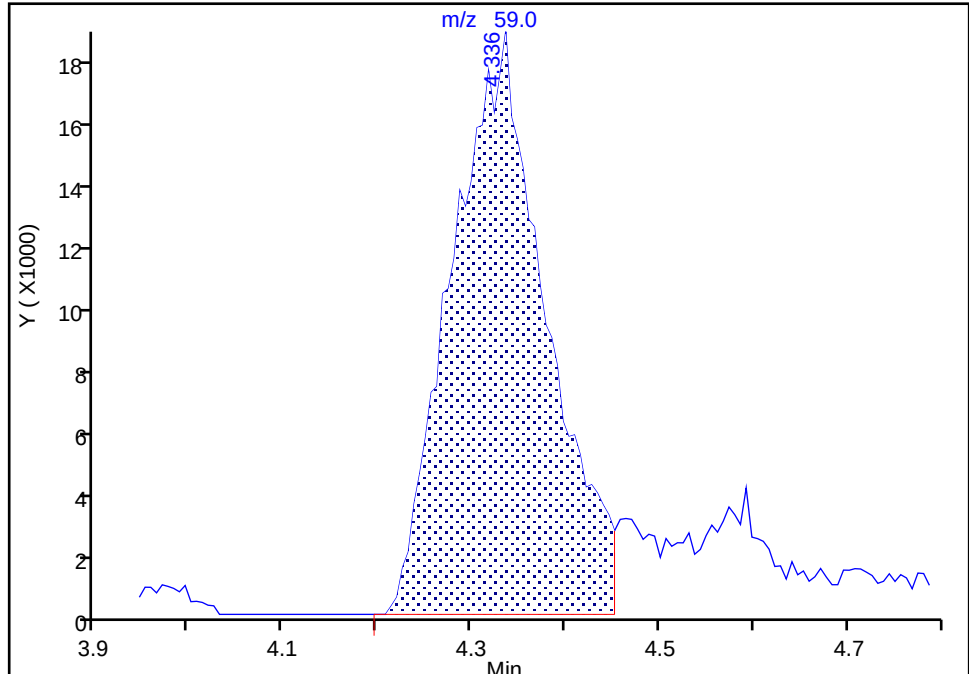
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Injection Date: 30-Nov-2020 13:56:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: DVV10203 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

30 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

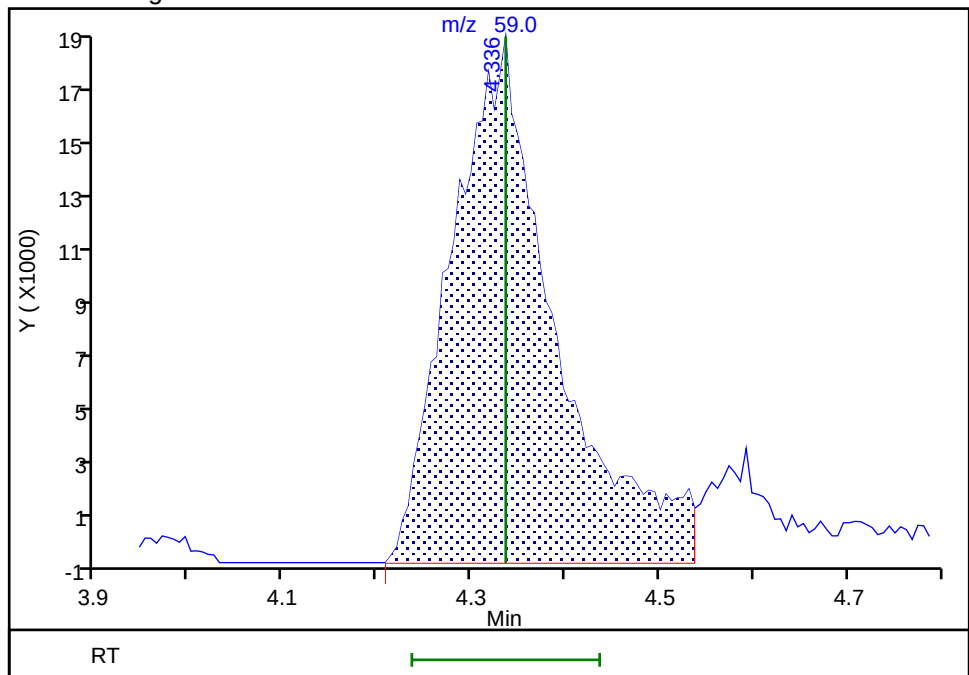
RT: 4.34
Area: 127704
Amount: 37.552288
Amount Units: ug/l

Processing Integration Results



RT: 4.34
Area: 140629
Amount: 40.041223
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:49:37
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

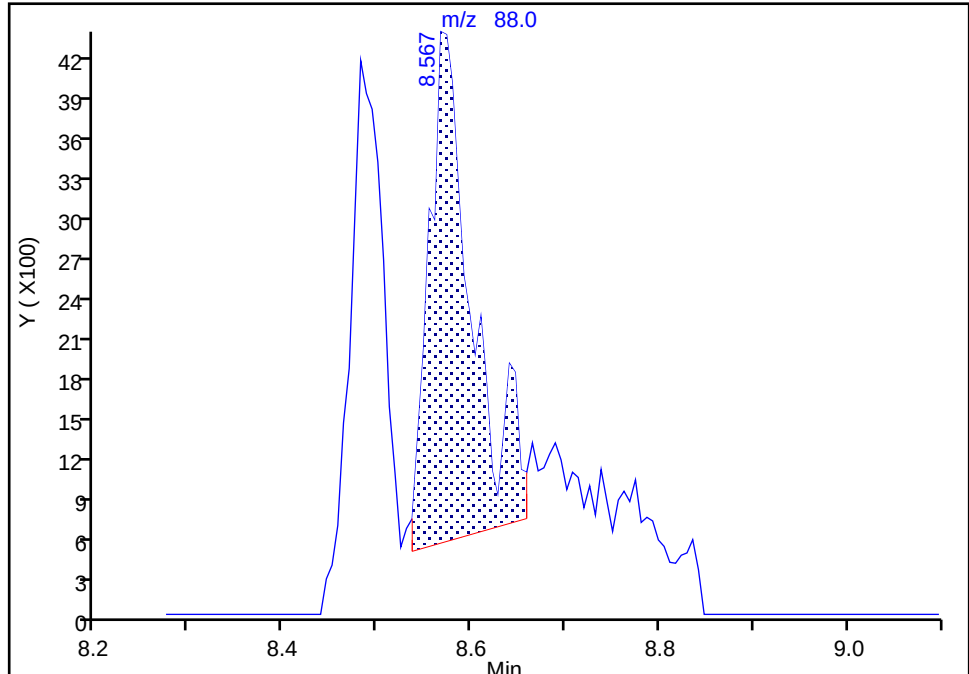
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Injection Date: 30-Nov-2020 13:56:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: DVV10203 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

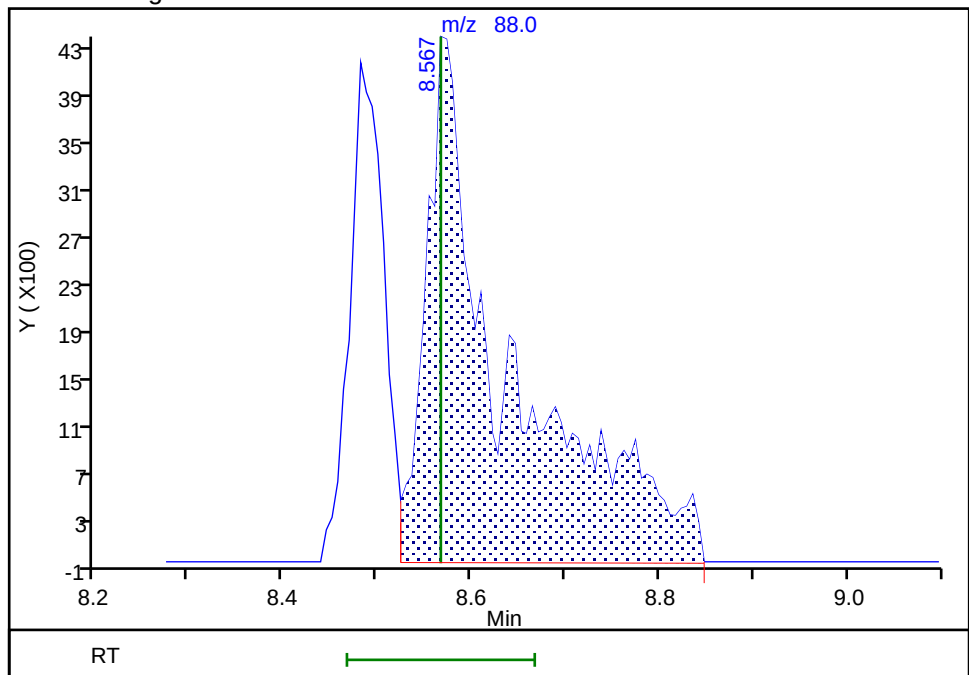
RT: 8.57
Area: 12148
Amount: 63.719188
Amount Units: ug/l

Processing Integration Results



RT: 8.57
Area: 26270
Amount: 116.9896
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:49:57
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I05.D
 Lims ID: IC std3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 30-Nov-2020 14:19:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0016641-007
 Misc. Info.: IC STD3
 Operator ID: DVV10203 Instrument ID: 16334
 Sublist: chrom-MSV_16334_25mL*sub4
 Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Dec-2020 18:57:44 Calib Date: 30-Nov-2020 18:23:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1610

First Level Reviewer: virayd

Date: 01-Dec-2020 11:52:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.953	1.953	0.000	98	59213	1.00	1.03	
5 Chloromethane	50	2.148	2.148	0.000	98	78349	1.00	1.01	
6 Butadiene	39	2.257	2.264	-0.007	96	94809	1.00	1.07	
7 Vinyl chloride	62	2.270	2.270	0.000	79	65380	1.00	0.9872	
9 Bromomethane	94	2.593	2.593	0.000	91	46006	1.00	1.00	
10 Chloroethane	64	2.672	2.666	0.006	99	38699	1.00	0.9631	
11 Dichlorofluoromethane	67	2.910	2.904	0.006	97	85751	1.00	0.9520	
13 Trichlorofluoromethane	101	2.977	2.977	0.000	95	73951	1.00	0.9702	
15 Ethyl ether	59	3.215	3.208	0.007	93	46571	1.00	1.04	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.306	3.300	0.006	93	65601	1.00	1.05	
18 Acrolein	56	3.385	3.385	0.000	99	365629	50.0	47.9	
19 1,1-Dichloroethene	96	3.519	3.519	0.000	97	48163	1.00	1.05	
21 112TCTFE	101	3.550	3.556	-0.006	88	49604	1.00	1.10	
20 Acetone	43	3.562	3.562	0.000	99	99654	10.0	10.1	
22 Iodomethane	142	3.714	3.714	0.000	99	90654	1.00	1.05	
23 Isopropyl alcohol	45	3.727	3.727	0.000	34	39390	20.0	22.5	
24 Ethyl bromide	108	3.745	3.739	0.006	98	41519	1.00	1.03	
25 Carbon disulfide	76	3.812	3.812	0.000	99	178461	1.00	1.05	
26 Methyl acetate	43	3.971	3.971	0.001	96	29330	1.00	0.9814	M
27 3-Chloro-1-propene	41	3.989	3.989	0.000	93	96698	1.00	1.05	
28 Methylene Chloride	84	4.178	4.178	0.000	93	55096	1.00	1.04	
* 29 t-Butyl alcohol-d10 (IS)	65	4.202	4.214	-0.012	0	201206	50.0	50.0	
30 2-Methyl-2-propanol	59	4.312	4.336	-0.024	99	78250	20.0	21.6	
31 Acrylonitrile	53	4.531	4.525	0.006	97	65434	5.00	5.12	
32 Methyl tert-butyl ether	73	4.580	4.580	0.000	91	157517	1.00	1.08	
33 trans-1,2-Dichloroethene	96	4.580	4.586	-0.006	98	55706	1.00	1.05	
34 Hexane	57	5.007	5.007	0.000	95	82931	1.00	1.07	
36 1,1-Dichloroethane	63	5.245	5.251	-0.006	95	105511	1.00	1.07	
37 Isopropyl ether	45	5.300	5.306	-0.006	98	213671	1.00	1.07	
38 2-Chloro-1,3-butadiene	53	5.361	5.360	0.001	91	95428	1.00	1.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.836	5.836	0.000	99	193019	1.00	1.06	
40 2-Butanone (MEK)	43	6.043	6.049	-0.006	99	186432	10.0	10.2	
41 cis-1,2-Dichloroethene	96	6.086	6.086	0.000	83	63650	1.00	1.07	
42 2,2-Dichloropropane	77	6.098	6.092	0.006	86	86568	1.00	1.05	
44 Propionitrile	54	6.159	6.147	0.012	99	97449	20.0	21.5	
S 49 1,2-Dichloroethene, Total	100				0			2.12	
46 Methacrylonitrile	67	6.360	6.360	0.000	94	167335	10.0	9.95	
48 Chlorobromomethane	128	6.409	6.409	0.000	71	28011	1.00	1.06	
47 Tetrahydrofuran	71	6.415	6.409	0.006	80	48944	10.0	10.3	
50 Chloroform	83	6.568	6.561	0.007	94	100689	1.00	1.06	
\$ 52 Dibromofluoromethane (Surr)	113	6.781	6.781	0.000	94	539150	10.0	10.1	
51 1,1,1-Trichloroethane	97	6.793	6.787	0.006	98	85584	1.00	1.05	
53 Cyclohexane	56	6.879	6.878	0.000	92	101123	1.00	1.08	
56 Carbon tetrachloride	117	6.994	7.000	-0.006	87	75097	1.00	1.07	
55 1,1-Dichloropropene	75	7.000	7.000	0.000	95	79831	1.00	1.05	
57 Isobutyl alcohol	41	7.165	7.165	0.000	95	67984	50.0	54.4	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.238	7.232	0.006	0	114722	10.0	10.1	
59 Benzene	78	7.263	7.263	0.000	92	241164	1.00	1.07	
60 1,2-Dichloroethane	62	7.336	7.336	0.000	97	65819	1.00	1.05	
62 Tert-amyl methyl ether	73	7.452	7.458	-0.006	98	172887	1.00	1.07	
* 63 Fluorobenzene (IS)	96	7.671	7.671	0.000	99	2211412	10.0	10.0	
64 n-Heptane	43	7.677	7.677	0.000	72	90836	1.00	1.04	
65 n-Butanol	56	8.049	8.049	0.000	89	125899	100.0	96.8	M
67 Trichloroethene	95	8.147	8.147	0.000	98	59598	1.00	1.04	
68 Methylcyclohexane	83	8.451	8.451	0.000	92	91381	1.00	1.03	
69 1,2-Dichloropropane	63	8.482	8.482	0.000	93	64320	1.00	1.07	
70 2-ethoxy-2-methyl butane	87	8.494	8.488	0.006	92	93157	1.00	1.06	
72 1,4-Dioxane	88	8.573	8.567	0.006	35	11572	50.0	50.0	M
71 Methyl methacrylate	69	8.567	8.567	0.000	94	34214	1.00	1.00	
73 Dibromomethane	93	8.585	8.585	0.000	96	29475	1.00	1.06	
75 Dichlorobromomethane	83	8.823	8.823	0.000	99	73464	1.00	1.05	
76 2-Nitropropane	41	9.110	9.110	0.000	99	96897	10.0	9.98	
79 1-Bromo-2-chloroethane	63	9.220	9.219	0.001	98	67155	1.00	1.04	
80 cis-1,3-Dichloropropene	75	9.372	9.378	-0.006	95	95377	1.00	1.05	
81 4-Methyl-2-pentanone (MIBK)	43	9.561	9.561	0.000	97	478190	10.0	10.2	
\$ 82 Toluene-d8 (Surr)	98	9.689	9.689	0.000	94	2136211	10.0	10.0	
83 Toluene	92	9.762	9.762	0.000	98	146327	1.00	1.06	
84 trans-1,3-Dichloropropene	75	10.024	10.024	0.000	94	76563	1.00	1.02	
S 87 1,3-Dichloropropene, Total	100				0			2.08	
85 Ethyl methacrylate	69	10.091	10.085	0.006	91	70532	1.00	1.05	
86 1,1,2-Trichloroethane	97	10.232	10.231	0.001	90	43259	1.00	1.07	
88 Tetrachloroethene	166	10.311	10.311	0.000	98	62720	1.00	1.04	
89 1,3-Dichloropropane	76	10.390	10.396	-0.006	91	77242	1.00	1.06	
91 2-Hexanone	43	10.451	10.451	0.000	98	334821	10.0	9.91	
93 Chlorodibromomethane	129	10.603	10.603	0.000	90	50339	1.00	1.05	
94 Ethylene Dibromide	107	10.713	10.713	0.000	99	42028	1.00	1.06	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	86	1600264	10.0	10.0	
96 1-Chlorohexane	91	11.158	11.158	0.000	96	86809	1.00	1.04	
97 Chlorobenzene	112	11.176	11.176	0.000	94	161371	1.00	1.04	
S 101 Xylenes, Total	106				0			3.16	
98 1,1,1,2-Tetrachloroethane	131	11.256	11.256	0.000	95	57609	1.00	1.05	
99 Ethylbenzene	91	11.262	11.262	0.000	98	288772	1.00	1.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.378	11.378	0.000	97	219481	2.00	2.13	
102 o-Xylene	106	11.707	11.707	0.000	97	105945	1.00	1.03	
103 Styrene	104	11.719	11.719	0.000	95	183091	1.00	1.05	
104 Bromoform	173	11.878	11.877	0.001	96	28046	1.00	1.00	
105 Isopropylbenzene	105	12.006	12.006	0.000	96	280719	1.00	1.05	
\$ 108 4-Bromofluorobenzene (Surr)	95	12.152	12.152	0.000	90	818561	10.0	10.0	
109 1,1,2,2-Tetrachloroethane	83	12.256	12.255	0.001	92	56804	1.00	1.05	
110 Bromobenzene	156	12.268	12.268	0.000	96	69470	1.00	1.07	
111 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	92	139562	10.0	9.57	
112 1,2,3-Trichloropropane	110	12.298	12.304	-0.006	79	15377	1.00	1.12	
113 N-Propylbenzene	91	12.335	12.335	0.000	99	338497	1.00	1.05	
114 2-Chlorotoluene	126	12.408	12.414	-0.006	96	68023	1.00	1.07	
115 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	240788	1.00	1.05	
116 4-Chlorotoluene	126	12.505	12.505	0.000	97	71097	1.00	1.07	
118 tert-Butylbenzene	134	12.713	12.713	0.000	94	50184	1.00	1.03	
120 Pentachloroethane	167	12.743	12.743	0.000	90	43066	1.00	1.03	
119 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	250956	1.00	1.05	
121 sec-Butylbenzene	105	12.877	12.877	0.000	94	311759	1.00	1.05	
122 1,3-Dichlorobenzene	146	12.975	12.975	0.000	98	137230	1.00	1.05	
123 4-Isopropyltoluene	119	12.981	12.981	0.000	98	274677	1.00	1.06	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	95	860391	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.048	13.048	0.000	94	138733	1.00	1.04	
126 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	99	109147	1.00	1.03	
127 Benzyl chloride	126	13.127	13.127	0.000	99	25065	1.00	1.07	
129 p-Diethylbenzene	119	13.182	13.182	0.000	93	165650	1.00	1.06	
130 n-Butylbenzene	92	13.274	13.274	0.000	98	144959	1.00	1.06	
131 1,2-Dichlorobenzene	146	13.310	13.310	0.000	98	130553	1.00	1.07	
134 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	87	8650	1.00	1.10	
135 1,3,5-Trichlorobenzene	180	13.975	13.975	0.000	98	114581	1.00	1.04	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	104962	1.00	1.04	
137 Hexachlorobutadiene	225	14.481	14.481	0.000	97	50715	1.00	1.02	
138 Naphthalene	128	14.578	14.578	0.000	97	196928	1.00	1.07	
139 1,2,3-Trichlorobenzene	180	14.718	14.718	0.000	95	93358	1.00	1.05	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	92	137772	1.00	1.05	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00031
 MSV_RV4GAS826_00097
 MSV_RV4_826_00035
 MSV_29_826ISS_00013

Amount Added: 2.00
 Amount Added: 2.00
 Amount Added: 2.00
 Amount Added: 1.00

Units: uL
 Units: uL
 Units: uL
 Units: uL

Run Reagent

Report Date: 01-Dec-2020 18:57:45

Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I05.D

Injection Date: 30-Nov-2020 14:19:30

Instrument ID: 16334

Operator ID: DVV10203

Lims ID: IC std3

Worklist Smp#: 7

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

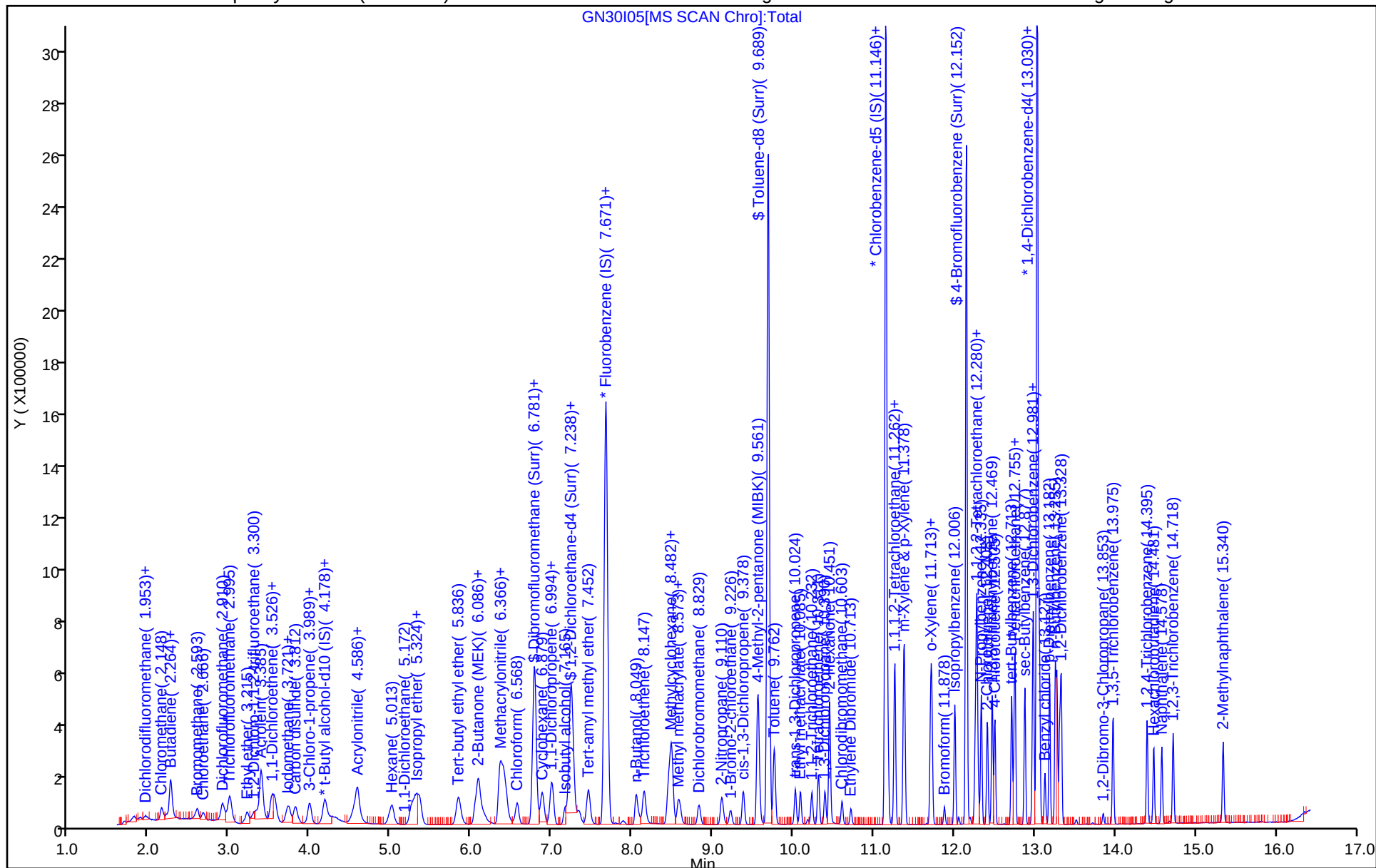
ALS Bottle#: 6

Method: MSV_16334_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 Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I05.D

Injection Date: 30-Nov-2020 14:19:30

Instrument ID: 16334

Lims ID: IC std3

Client ID:

Operator ID: DVV10203

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

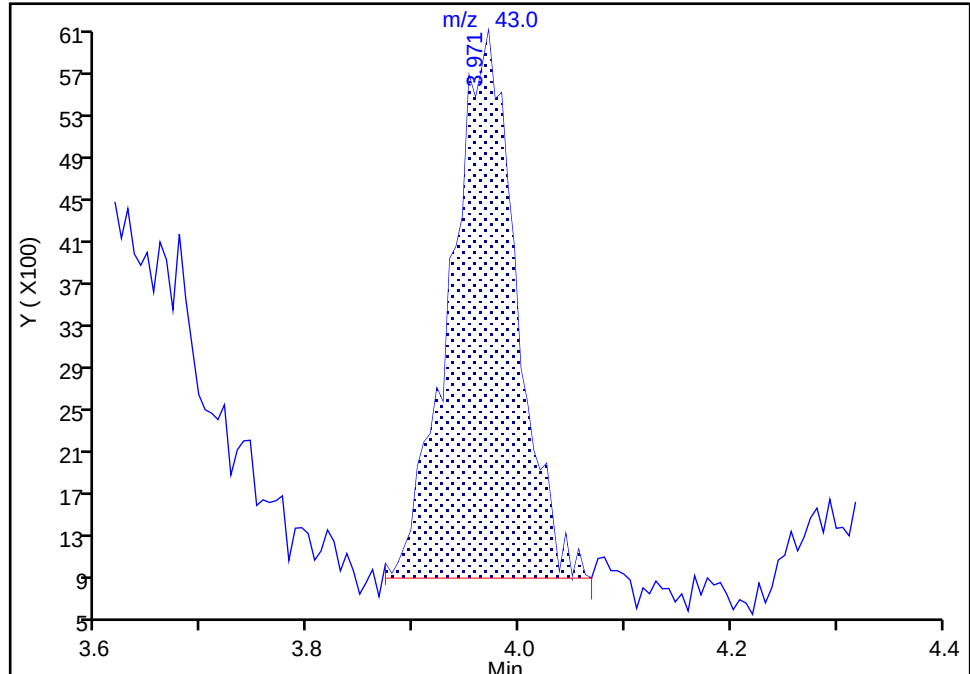
MS Quad

26 Methyl acetate, CAS: 79-20-9

Signal: 1

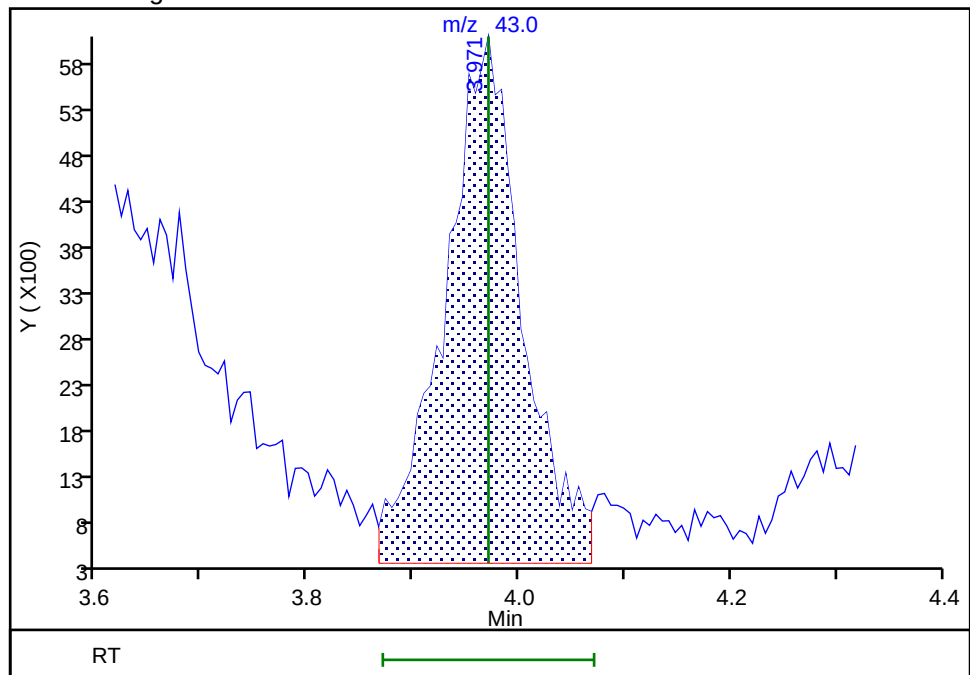
RT: 3.97
Area: 22428
Amount: 0.855084
Amount Units: ug/l

Processing Integration Results



RT: 3.97
Area: 29330
Amount: 0.981402
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:51:24

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I05.D

Injection Date: 30-Nov-2020 14:19:30

Instrument ID: 16334

Lims ID: IC std3

Client ID:

Operator ID: DVV10203

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

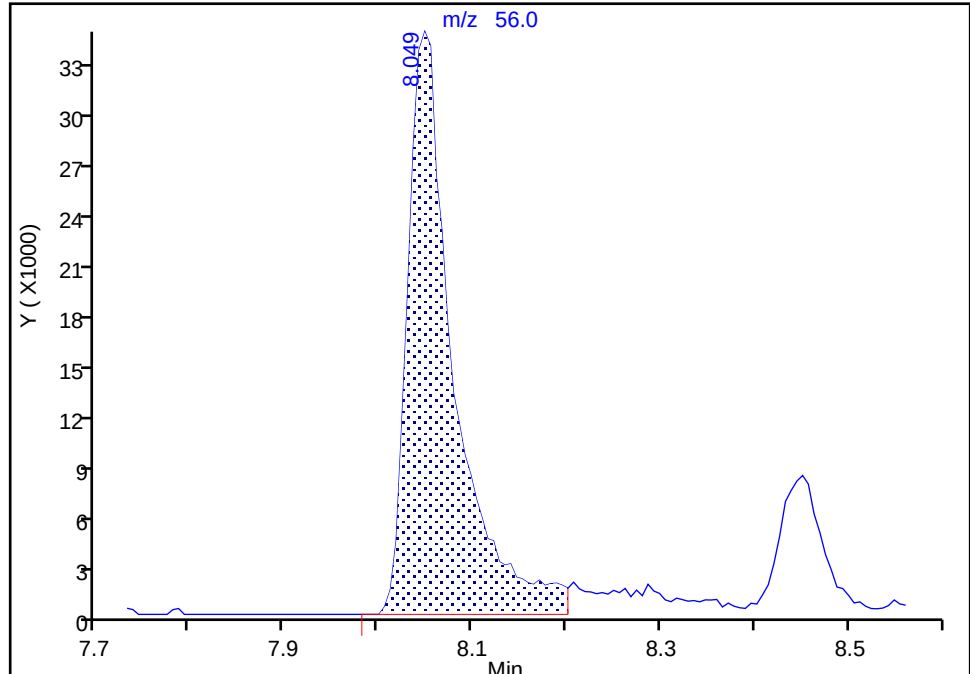
MS Quad

65 n-Butanol, CAS: 71-36-3

Signal: 1

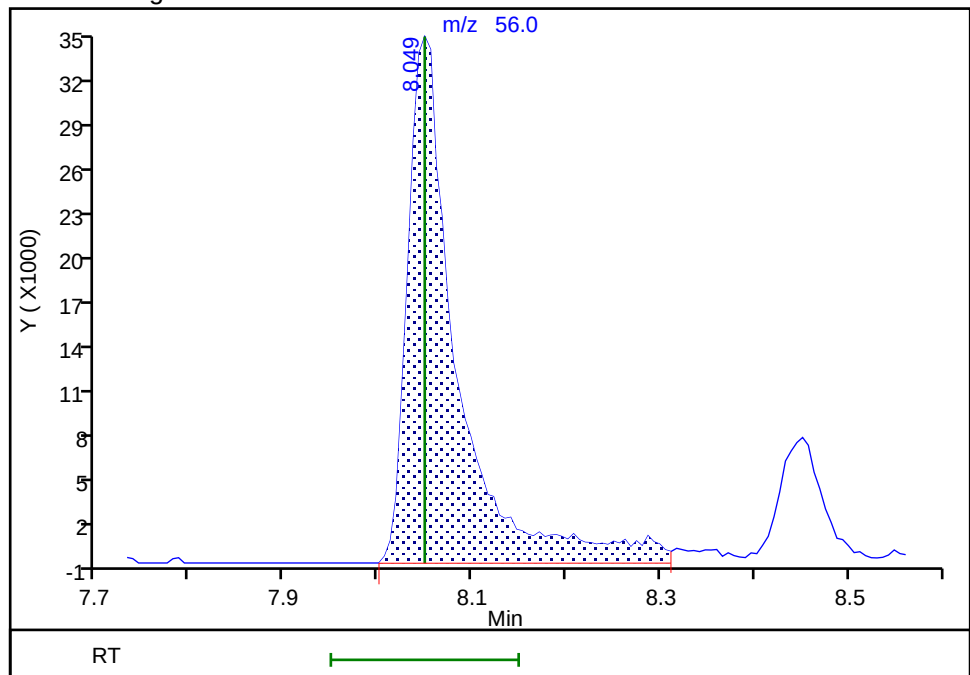
RT: 8.05
Area: 117068
Amount: 90.927496
Amount Units: ug/l

Processing Integration Results



RT: 8.05
Area: 125899
Amount: 96.837708
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:51:57

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

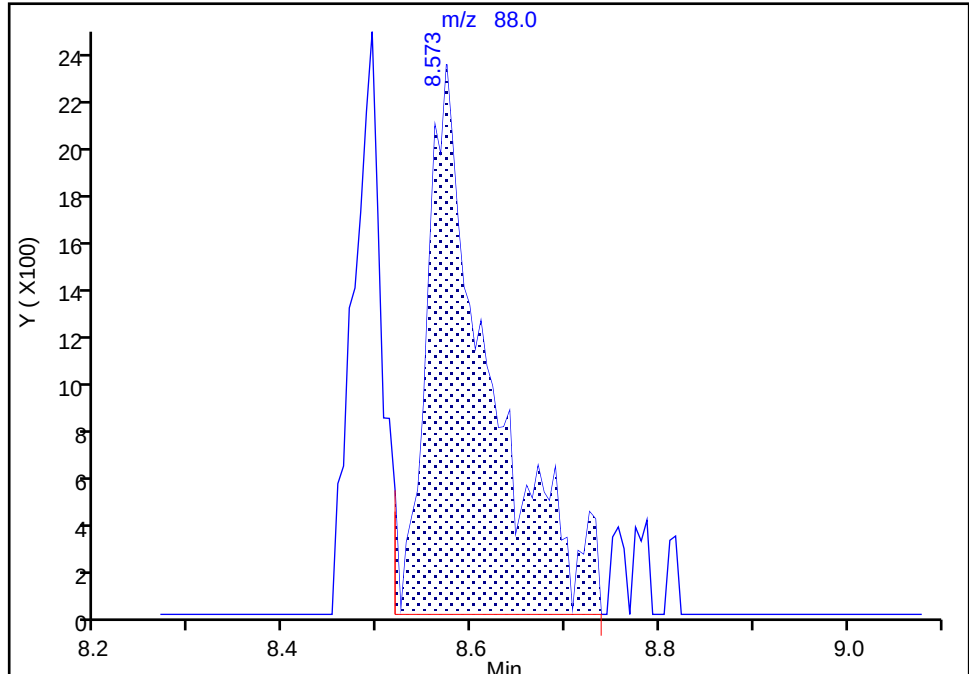
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I05.D
Injection Date: 30-Nov-2020 14:19:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: DVV10203 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

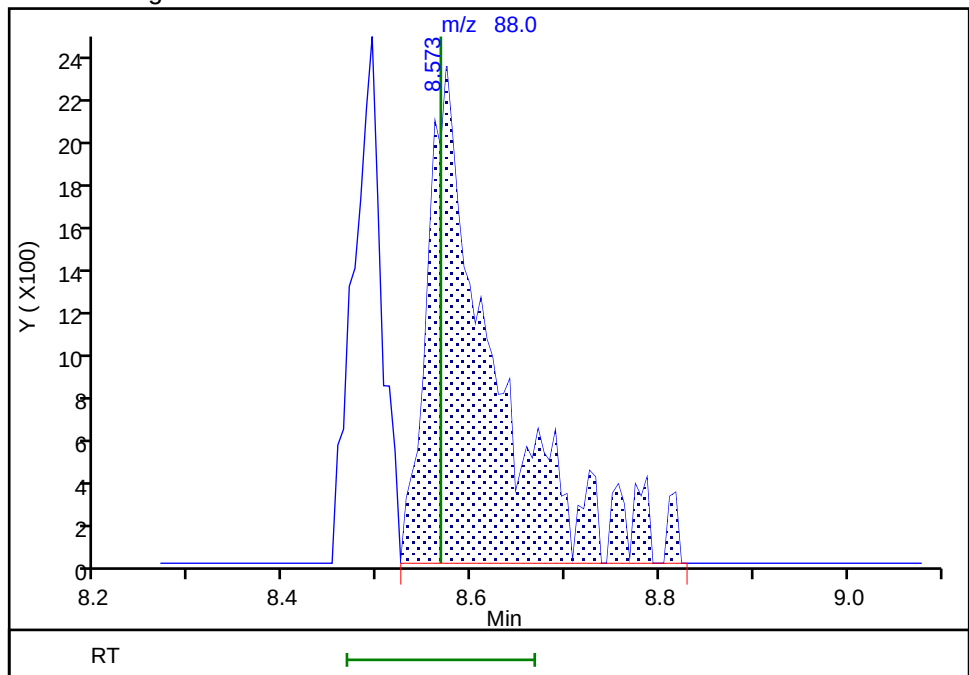
RT: 8.57
Area: 10783
Amount: 49.653151
Amount Units: ug/l

Processing Integration Results



RT: 8.57
Area: 11572
Amount: 50.028974
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:52:12
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D
 Lims ID: IC std2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 30-Nov-2020 14:41:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0016641-008
 Misc. Info.: IC STD2
 Operator ID: DVV10203 Instrument ID: 16334
 Sublist: chrom-MSV_16334_25mL*sub4
 Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Dec-2020 18:57:55 Calib Date: 30-Nov-2020 18:23:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1610

First Level Reviewer: virayd

Date: 01-Dec-2020 11:55:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.959	1.953	0.006	98	29137	0.5000	0.5119	M
5 Chloromethane	50	2.148	2.148	0.000	98	40943	0.5000	0.5331	
6 Butadiene	39	2.257	2.264	-0.007	94	51097	0.5000	0.5845	M
7 Vinyl chloride	62	2.257	2.270	-0.013	81	33758	0.5000	0.5149	
9 Bromomethane	94	2.593	2.593	0.000	88	23952	0.5000	0.5242	M
10 Chloroethane	64	2.654	2.666	-0.012	99	20672	0.5000	0.5197	
11 Dichlorofluoromethane	67	2.904	2.904	0.000	97	46525	0.5000	0.5217	M
13 Trichlorofluoromethane	101	2.977	2.977	0.000	97	38530	0.5000	0.5106	
15 Ethyl ether	59	3.208	3.208	0.000	95	22931	0.5001	0.5148	M
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.312	3.300	0.012	95	31854	0.5000	0.5165	
18 Acrolein	56	3.385	3.385	0.000	99	182229	25.0	24.5	
19 1,1-Dichloroethene	96	3.519	3.519	0.000	98	23861	0.5000	0.5232	
21 112TCTFE	101	3.556	3.556	0.000	93	21323	0.5000	0.4782	
20 Acetone	43	3.550	3.562	-0.012	99	50222	5.00	5.23	M
22 Iodomethane	142	3.708	3.714	-0.006	98	43500	0.5000	0.5107	Ma
23 Isopropyl alcohol	45	3.733	3.727	0.006	33	20534	10.0	11.8	M
24 Ethyl bromide	108	3.739	3.739	0.000	97	21157	0.5000	0.5326	
25 Carbon disulfide	76	3.806	3.812	-0.006	98	84062	0.5000	0.5001	
26 Methyl acetate	43	3.977	3.971	0.007	29	12966	0.5000	0.4458	
27 3-Chloro-1-propene	41	3.983	3.989	-0.006	92	50604	0.5000	0.5546	
28 Methylene Chloride	84	4.172	4.178	-0.006	93	26198	0.5000	0.5013	
* 29 t-Butyl alcohol-d10 (IS)	65	4.196	4.214	-0.018	0	195834	50.0	50.0	
30 2-Methyl-2-propanol	59	4.342	4.336	0.006	98	37272	10.0	10.6	M
31 Acrylonitrile	53	4.531	4.525	0.006	99	32066	2.50	2.58	
32 Methyl tert-butyl ether	73	4.574	4.580	-0.006	95	73272	0.5000	0.5055	
33 trans-1,2-Dichloroethene	96	4.574	4.586	-0.012	98	26963	0.5000	0.5135	
34 Hexane	57	5.001	5.007	-0.006	94	35728	0.5000	0.4667	
36 1,1-Dichloroethane	63	5.257	5.251	0.006	95	48509	0.5000	0.4978	
37 Isopropyl ether	45	5.300	5.306	-0.006	96	99922	0.5000	0.5041	
38 2-Chloro-1,3-butadiene	53	5.354	5.360	-0.006	91	44458	0.5000	0.5017	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.836	5.836	0.000	98	92089	0.5000	0.5095	
40 2-Butanone (MEK)	43	6.049	6.049	0.000	99	89142	5.00	5.01	
41 cis-1,2-Dichloroethene	96	6.092	6.086	0.006	83	30199	0.5000	0.5123	
42 2,2-Dichloropropane	77	6.098	6.092	0.006	64	41487	0.5000	0.5076	M
44 Propionitrile	54	6.147	6.147	0.000	98	45761	10.0	10.4	
S 49 1,2-Dichloroethene, Total	100				0			1.03	
46 Methacrylonitrile	67	6.360	6.360	0.000	93	77275	5.00	4.72	
48 Chlorobromomethane	128	6.409	6.409	0.000	74	13722	0.5000	0.5222	
47 Tetrahydrofuran	71	6.415	6.409	0.006	94	21854	5.00	4.75	
50 Chloroform	83	6.561	6.561	0.000	93	47732	0.5000	0.5083	
\$ 52 Dibromofluoromethane (Surr)	113	6.781	6.781	0.000	94	532962	10.0	10.1	
51 1,1,1-Trichloroethane	97	6.793	6.787	0.006	59	41257	0.5000	0.5134	
53 Cyclohexane	56	6.878	6.878	0.000	92	45968	0.5000	0.4978	
56 Carbon tetrachloride	117	6.988	7.000	-0.012	83	34456	0.5000	0.4945	M
55 1,1-Dichloropropene	75	7.006	7.000	0.006	95	37534	0.5000	0.4971	
57 Isobutyl alcohol	41	7.159	7.165	-0.006	93	29644	25.0	23.9	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.232	7.232	0.000	0	111685	10.0	9.91	
59 Benzene	78	7.263	7.263	0.000	93	111347	0.5000	0.5003	
60 1,2-Dichloroethane	62	7.330	7.336	-0.006	97	32618	0.5000	0.5241	
62 Tert-amyl methyl ether	73	7.452	7.458	-0.006	98	79984	0.5000	0.5020	
* 63 Fluorobenzene (IS)	96	7.671	7.671	0.000	98	2189287	10.0	10.0	
64 n-Heptane	43	7.677	7.677	0.000	37	40450	0.5000	0.4683	
65 n-Butanol	56	8.049	8.049	0.000	91	62965	50.0	49.8	
67 Trichloroethene	95	8.140	8.147	-0.007	97	28664	0.5000	0.5044	
68 Methylcyclohexane	83	8.445	8.451	-0.006	90	45474	0.5000	0.5153	
69 1,2-Dichloropropane	63	8.482	8.482	0.000	73	30117	0.5000	0.5059	
70 2-ethoxy-2-methyl butane	87	8.482	8.488	-0.006	89	42888	0.5000	0.4926	
72 1,4-Dioxane	88	8.567	8.567	0.000	37	5456	25.0	24.2	M
71 Methyl methacrylate	69	8.573	8.567	0.006	92	16301	0.5000	0.4890	
73 Dibromomethane	93	8.579	8.585	-0.006	68	13777	0.5000	0.4993	M
75 Dichlorobromomethane	83	8.829	8.823	0.006	98	33392	0.5000	0.4837	
76 2-Nitropropane	41	9.110	9.110	0.000	98	44863	5.00	4.75	
79 1-Bromo-2-chloroethane	63	9.219	9.219	0.000	98	32732	0.5000	0.5129	
80 cis-1,3-Dichloropropene	75	9.378	9.378	0.000	95	44710	0.5000	0.4990	
81 4-Methyl-2-pentanone (MIBK)	43	9.561	9.561	0.000	98	222955	5.00	4.88	
\$ 82 Toluene-d8 (Surr)	98	9.689	9.689	0.000	94	2121912	10.0	10.0	
83 Toluene	92	9.762	9.762	0.000	98	69853	0.5000	0.5070	
84 trans-1,3-Dichloropropene	75	10.018	10.024	-0.006	94	37093	0.5000	0.4986	
S 87 1,3-Dichloropropene, Total	100				0			1.00	
85 Ethyl methacrylate	69	10.085	10.085	0.000	91	32351	0.5000	0.4839	
86 1,1,2-Trichloroethane	97	10.231	10.231	0.000	89	20860	0.5000	0.5190	
88 Tetrachloroethene	166	10.311	10.311	0.000	98	30689	0.5000	0.5133	
89 1,3-Dichloropropane	76	10.390	10.396	-0.006	91	36850	0.5000	0.5083	
91 2-Hexanone	43	10.451	10.451	0.000	98	157747	5.00	4.80	
93 Chlorodibromomethane	129	10.603	10.603	0.000	91	22656	0.5000	0.4752	
94 Ethylene Dibromide	107	10.713	10.713	0.000	97	19536	0.5000	0.4951	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	87	1589997	10.0	10.0	
96 1-Chlorohexane	91	11.158	11.158	0.000	97	43401	0.5000	0.5245	
97 Chlorobenzene	112	11.176	11.176	0.000	95	78284	0.5000	0.5101	
S 101 Xylenes, Total	106				0			1.51	
98 1,1,1,2-Tetrachloroethane	131	11.256	11.256	0.000	96	26540	0.5000	0.4867	
99 Ethylbenzene	91	11.262	11.262	0.000	99	136856	0.5000	0.5026	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.378	11.378	0.000	97	102766	1.00	1.00	
102 o-Xylene	106	11.707	11.707	0.000	97	51651	0.5000	0.5076	
103 Styrene	104	11.719	11.719	0.000	95	86978	0.5000	0.5016	
104 Bromoform	173	11.877	11.877	0.000	96	12931	0.5000	0.4646	
105 Isopropylbenzene	105	12.006	12.006	0.000	96	132190	0.5000	0.4966	
\$ 108 4-Bromofluorobenzene (Surr)	95	12.146	12.152	-0.006	89	812090	10.0	10.0	
109 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	93	27699	0.5000	0.5113	
110 Bromobenzene	156	12.268	12.268	0.000	93	32482	0.5000	0.4994	
111 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	95	63627	5.00	4.48	
112 1,2,3-Trichloropropane	110	12.298	12.304	-0.006	75	7254	0.5000	0.5253	
113 N-Propylbenzene	91	12.335	12.335	0.000	99	165110	0.5000	0.5091	
114 2-Chlorotoluene	126	12.414	12.414	0.000	96	31485	0.5000	0.4937	
115 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	115372	0.5000	0.5043	
116 4-Chlorotoluene	126	12.505	12.505	0.000	97	34713	0.5000	0.5220	
118 tert-Butylbenzene	134	12.713	12.713	0.000	93	25251	0.5000	0.5169	
120 Pentachloroethane	167	12.743	12.743	0.000	88	21266	0.5000	0.5064	
119 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	119721	0.5000	0.5012	
121 sec-Butylbenzene	105	12.877	12.877	0.000	94	147266	0.5000	0.4948	
122 1,3-Dichlorobenzene	146	12.975	12.975	0.000	98	66610	0.5000	0.5079	
123 4-Isopropyltoluene	119	12.981	12.981	0.000	97	129655	0.5000	0.5015	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	96	861870	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.048	13.048	0.000	95	68535	0.5000	0.5129	
126 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	54187	0.5000	0.5115	
127 Benzyl chloride	126	13.127	13.127	0.000	99	11182	0.5000	0.4772	
129 p-Diethylbenzene	119	13.182	13.182	0.000	91	79964	0.5000	0.5091	
130 n-Butylbenzene	92	13.274	13.274	0.000	97	69796	0.5000	0.5096	
131 1,2-Dichlorobenzene	146	13.310	13.310	0.000	98	62448	0.5000	0.5103	
134 1,2-Dibromo-3-Chloropropane	155	13.847	13.853	-0.006	85	3908	0.5000	0.4950	
135 1,3,5-Trichlorobenzene	180	13.975	13.975	0.000	97	56346	0.5000	0.5126	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	93	54078	0.5000	0.5338	
137 Hexachlorobutadiene	225	14.481	14.481	0.000	97	26381	0.5000	0.5304	
138 Naphthalene	128	14.578	14.578	0.000	97	94086	0.5000	0.5104	
139 1,2,3-Trichlorobenzene	180	14.718	14.718	0.000	95	47589	0.5000	0.5323	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	93	71187	0.5000	0.5401	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_RV1_826_00031

Amount Added: 2.00

Units: uL

MSV_RV4GAS826_00097

Amount Added: 2.00

Units: uL

MSV_RV4_826_00035

Amount Added: 2.00

Units: uL

MSV_29_826ISS_00013

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D

Injection Date: 30-Nov-2020 14:41:30

Instrument ID: 16334

Operator ID: DVV10203

Lims ID: IC std2

Worklist Smp#: 8

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

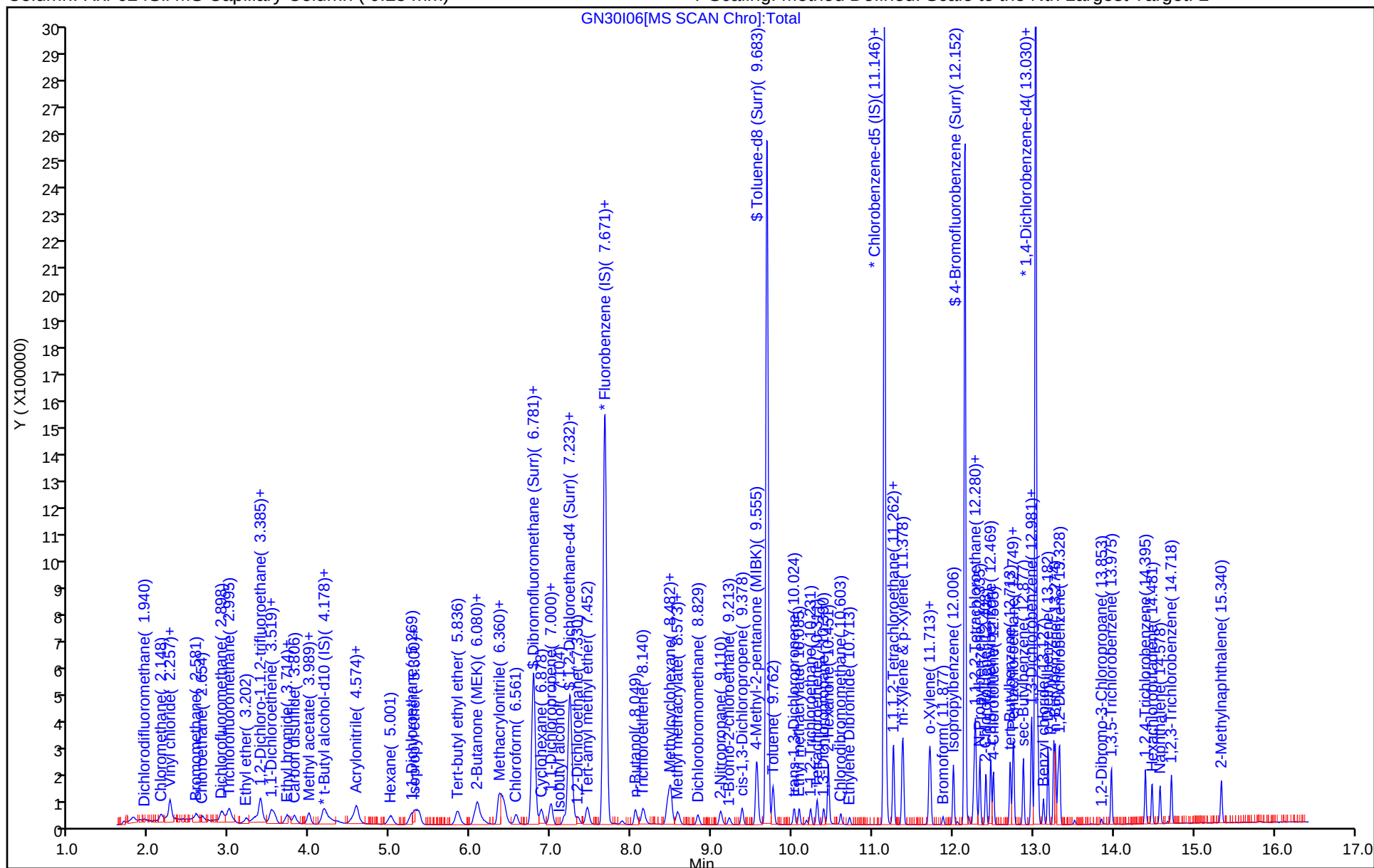
ALS Bottle#: 7

Method: MSV_16334_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 Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D

Injection Date: 30-Nov-2020 14:41:30

Instrument ID: 16334

Lims ID: IC std2

Client ID:

Operator ID: DVV10203

ALS Bottle#:

7

Worklist Smp#: 8

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

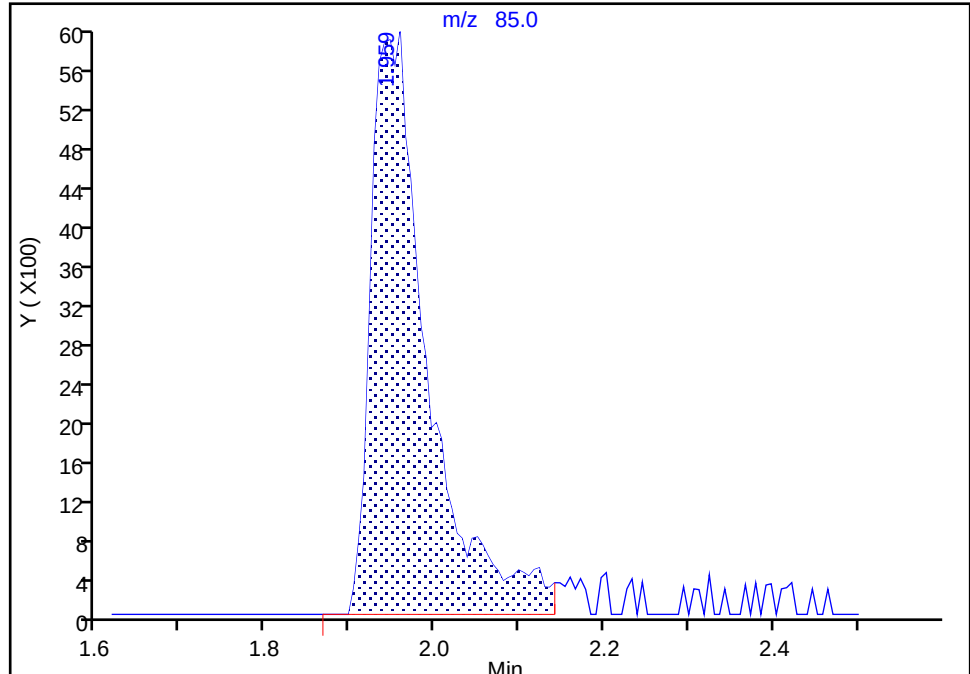
MS Quad

1 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

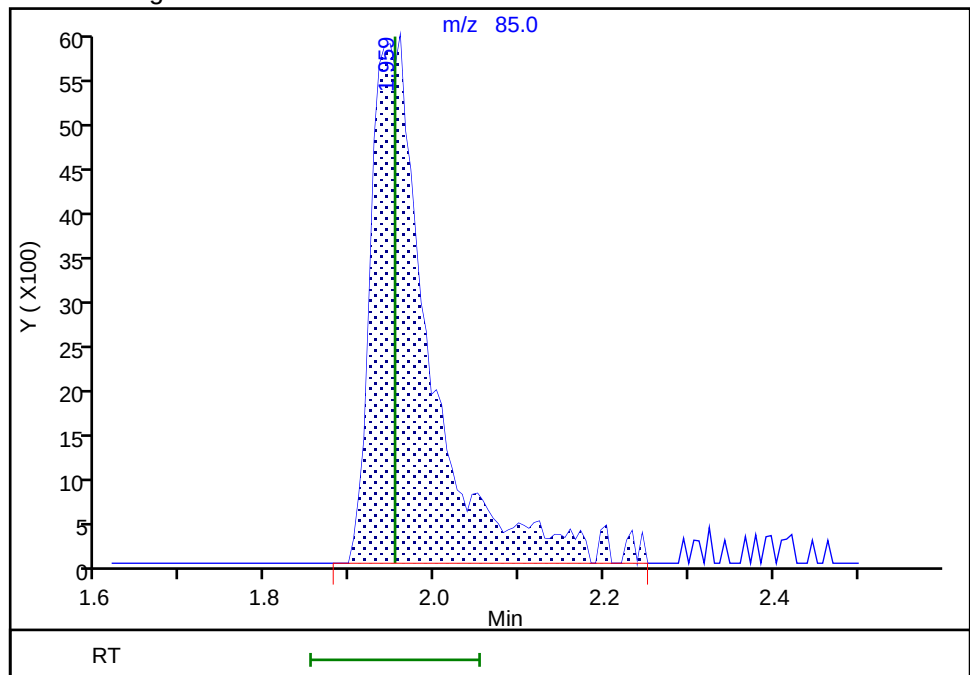
RT: 1.96
Area: 27810
Amount: 0.491868
Amount Units: ug/l

Processing Integration Results



RT: 1.96
Area: 29137
Amount: 0.511905
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:53:12

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

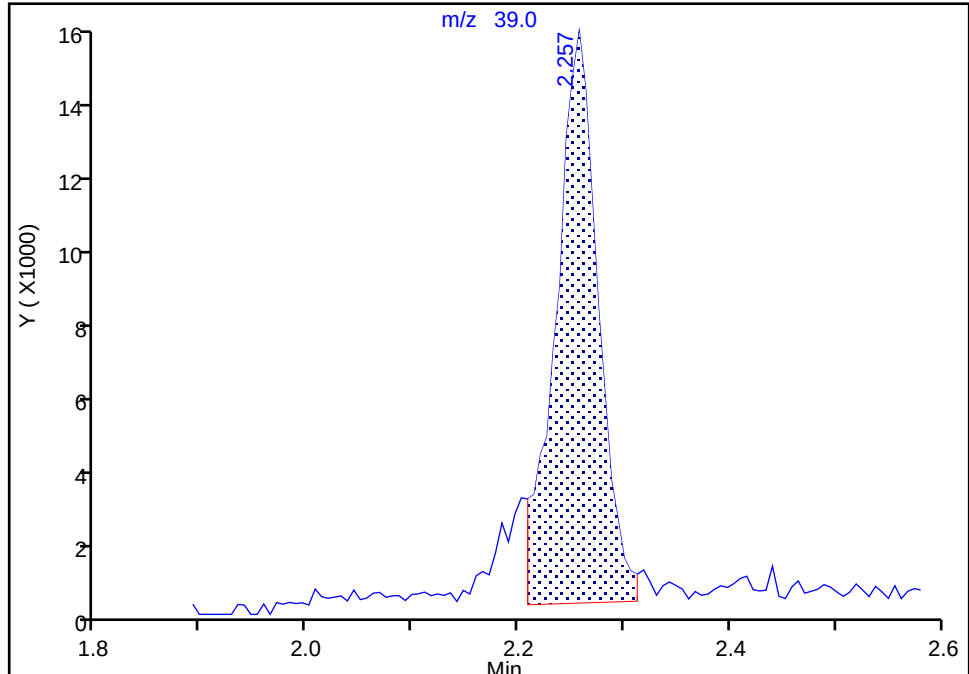
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D
Injection Date: 30-Nov-2020 14:41:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: DVV10203 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

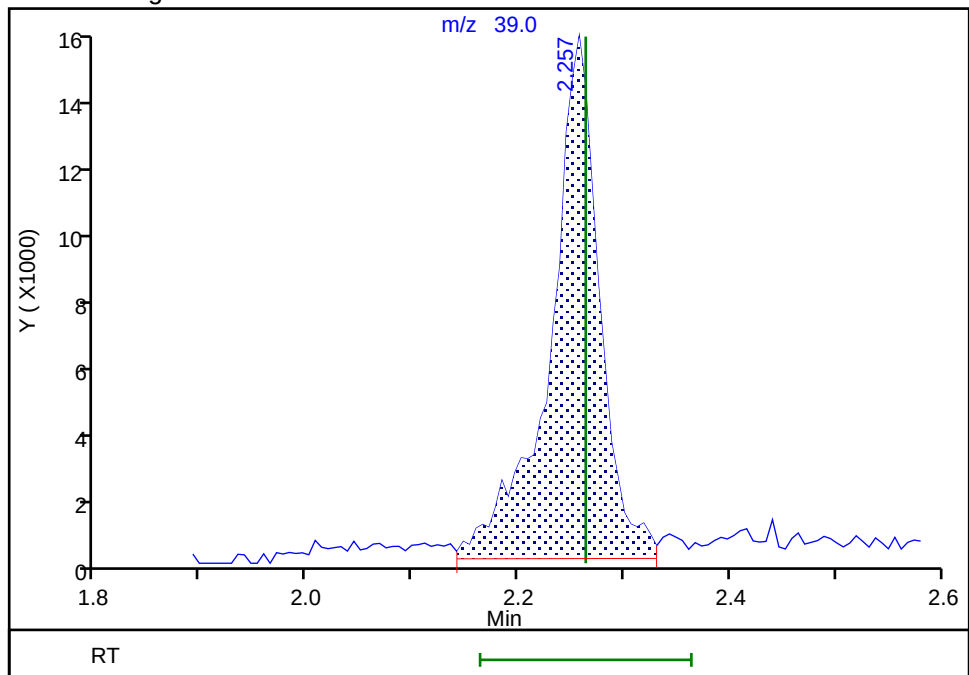
RT: 2.26
Area: 43591
Amount: 0.531353
Amount Units: ug/l

Processing Integration Results



RT: 2.26
Area: 51097
Amount: 0.584513
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:53:23
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

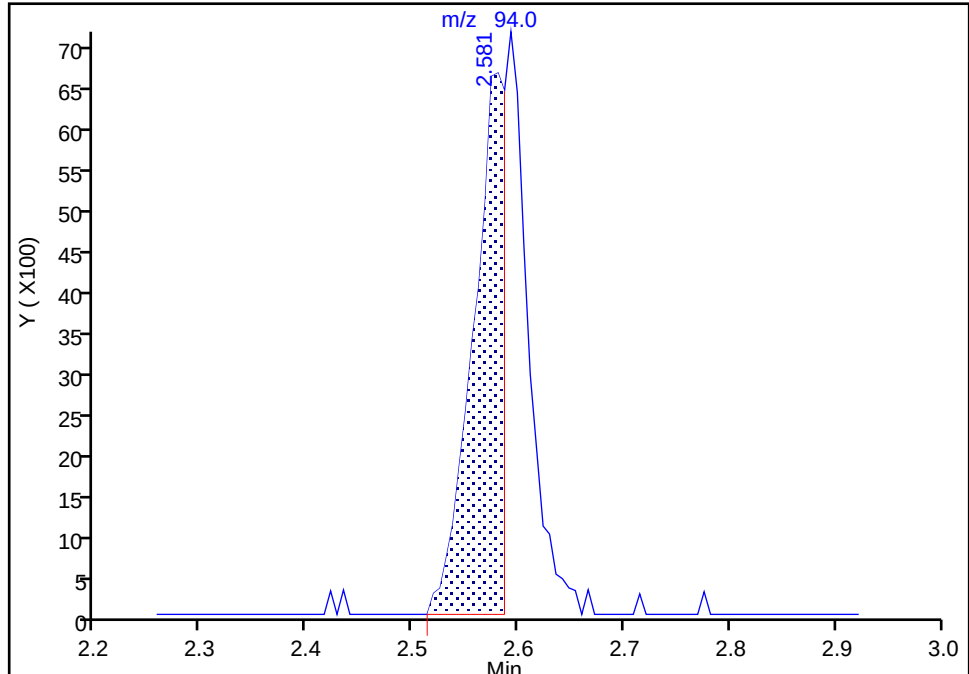
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D
Injection Date: 30-Nov-2020 14:41:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: DVV10203 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

9 Bromomethane, CAS: 74-83-9

Signal: 1

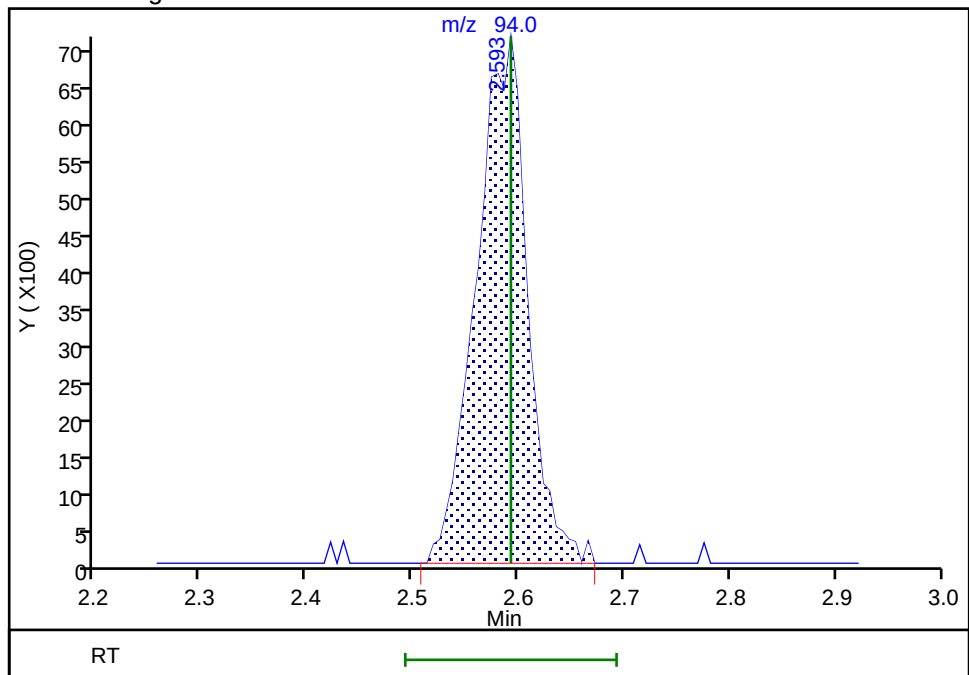
RT: 2.58
Area: 14139
Amount: 0.329668
Amount Units: ug/l

Processing Integration Results



RT: 2.59
Area: 23952
Amount: 0.524202
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:53:33
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D

Injection Date: 30-Nov-2020 14:41:30

Instrument ID: 16334

Lims ID: IC std2

Client ID:

Operator ID: DVV10203

ALS Bottle#:

7

Worklist Smp#: 8

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

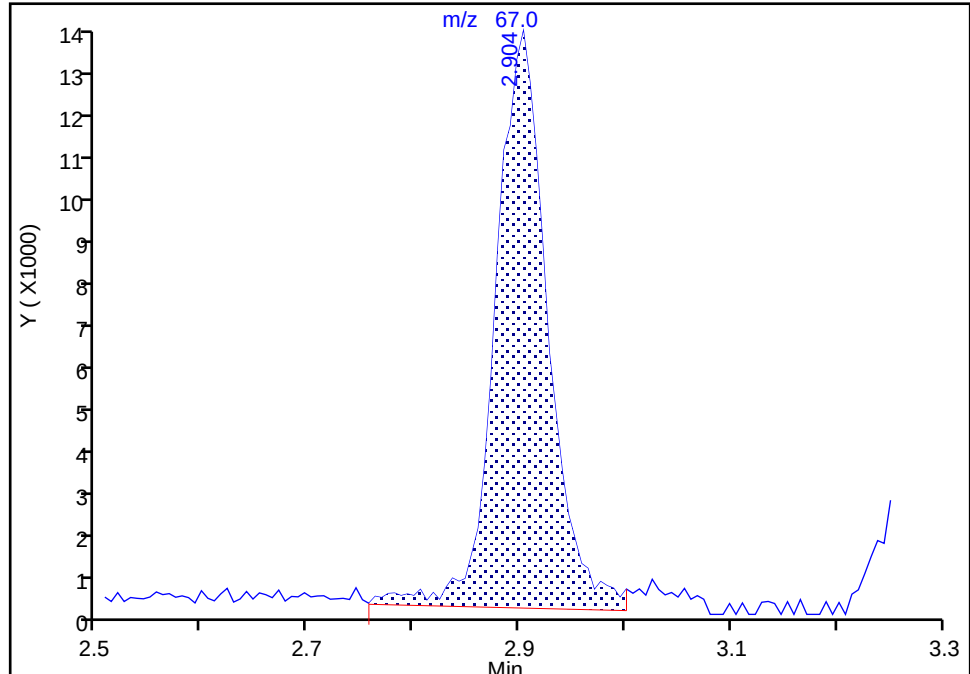
MS Quad

11 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

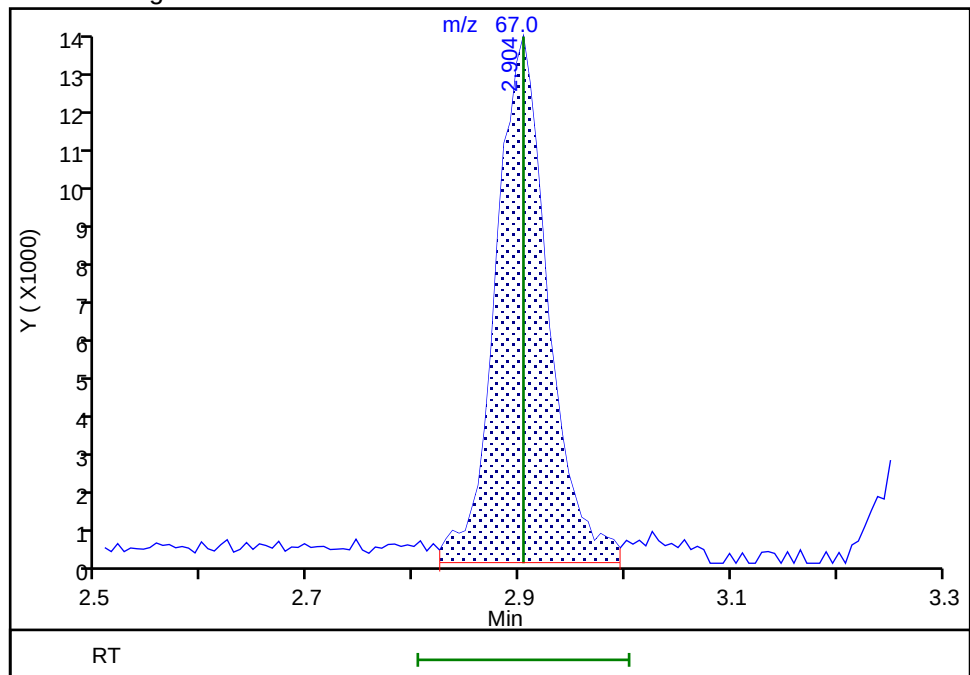
RT: 2.90
Area: 46241
Amount: 0.521398
Amount Units: ug/l

Processing Integration Results



RT: 2.90
Area: 46525
Amount: 0.521740
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:53:45

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

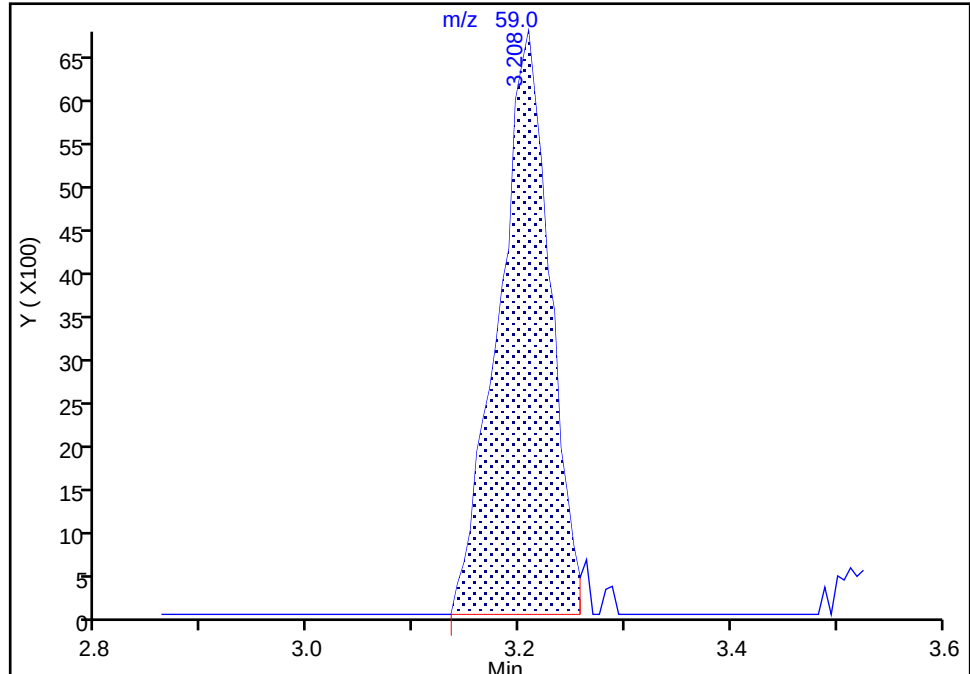
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D
Injection Date: 30-Nov-2020 14:41:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: DVV10203 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

15 Ethyl ether, CAS: 60-29-7

Signal: 1

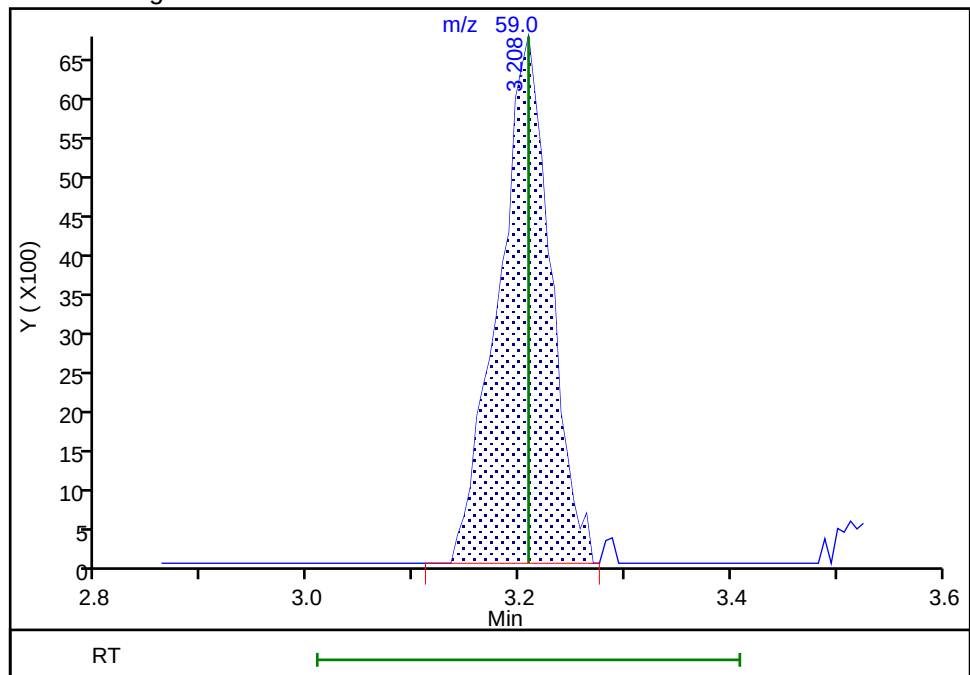
RT: 3.21
Area: 22702
Amount: 0.541226
Amount Units: ug/l

Processing Integration Results



RT: 3.21
Area: 22931
Amount: 0.514803
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:53:52
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D

Injection Date: 30-Nov-2020 14:41:30

Instrument ID: 16334

Lims ID: IC std2

Client ID:

Operator ID: DVV10203

ALS Bottle#:

7

Worklist Smp#: 8

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

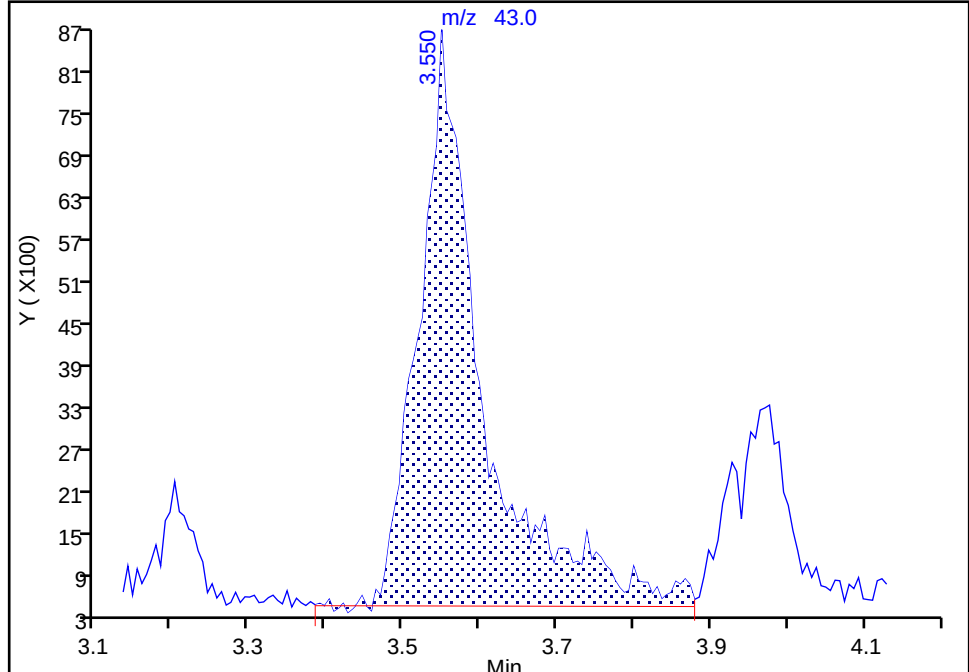
MS Quad

20 Acetone, CAS: 67-64-1

Signal: 1

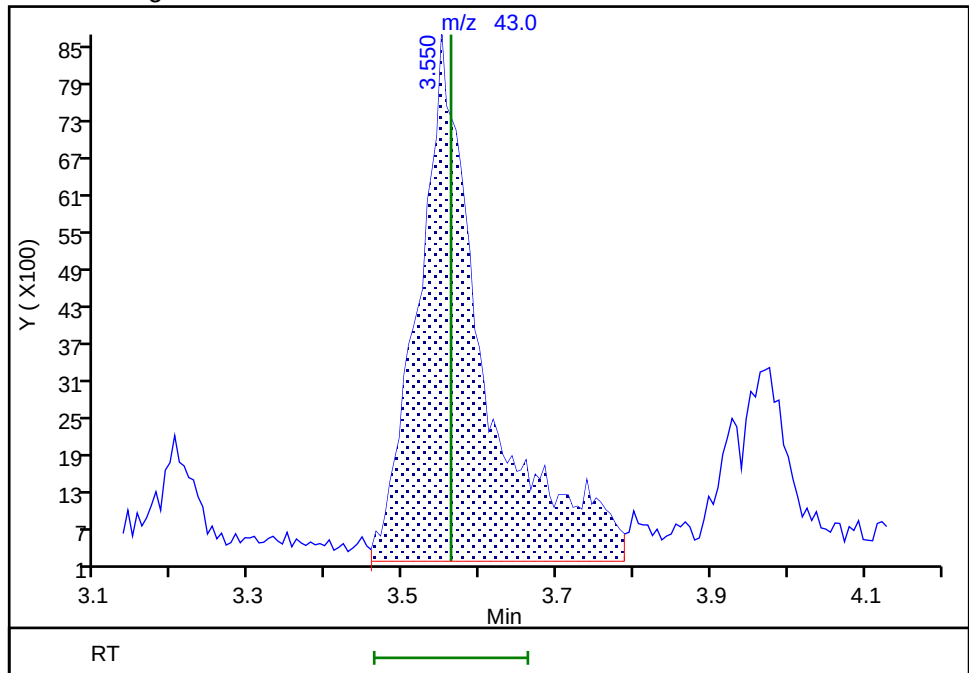
RT: 3.55
Area: 46876
Amount: 5.077360
Amount Units: ug/l

Processing Integration Results



RT: 3.55
Area: 50222
Amount: 5.226580
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:54:03

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D

Injection Date: 30-Nov-2020 14:41:30

Instrument ID: 16334

Lims ID: IC std2

Client ID:

Operator ID: DVV10203

ALS Bottle#:

7

Worklist Smp#: 8

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

MS Quad

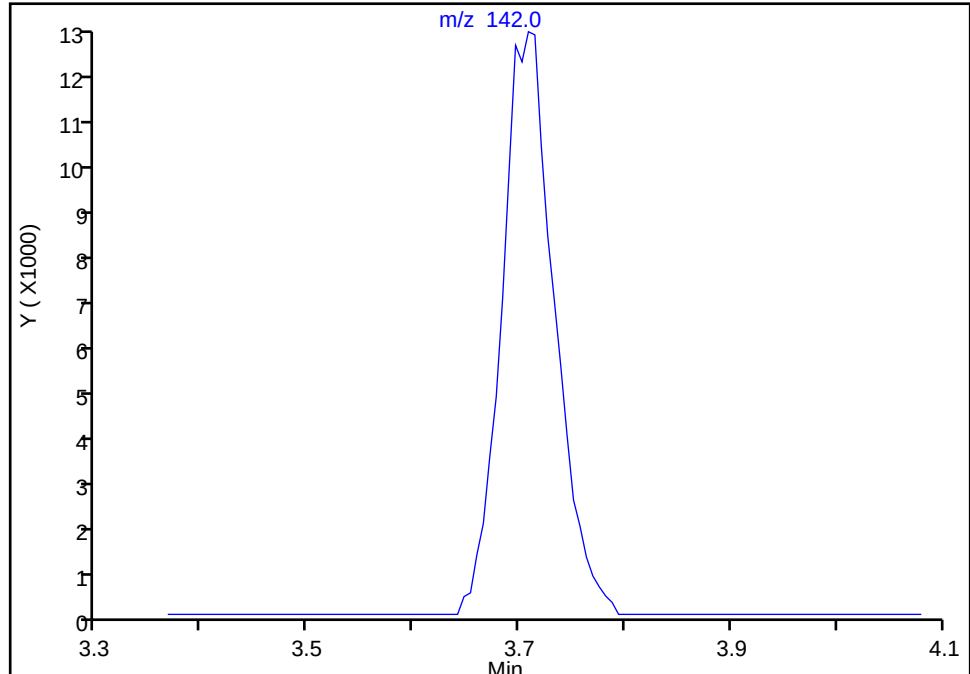
22 Iodomethane, CAS: 74-88-4

Signal: 1

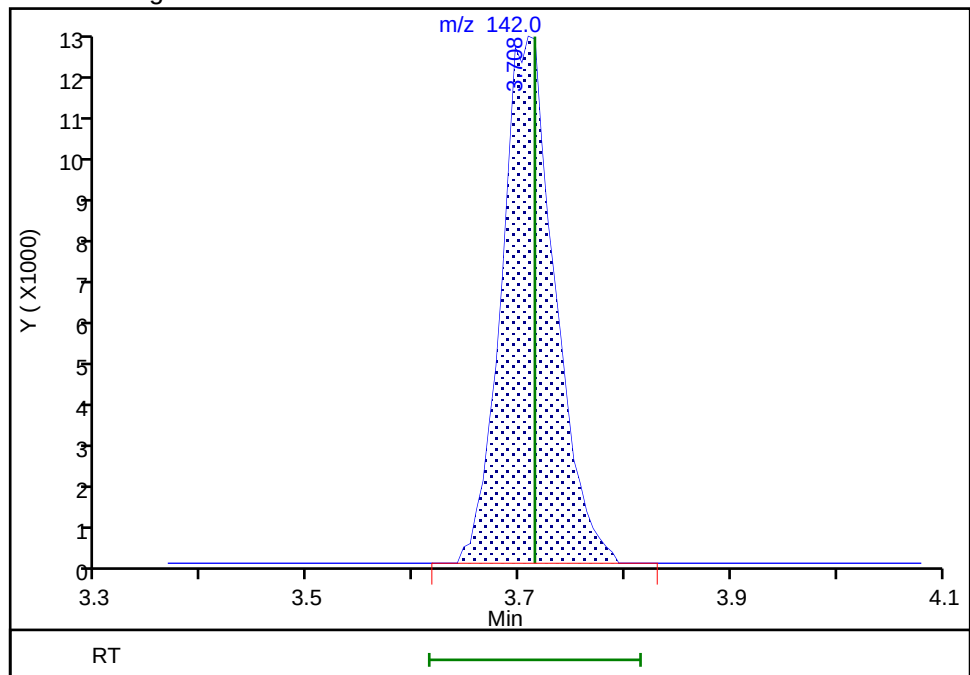
Not Detected

Expected RT: 3.71

Processing Integration Results



Manual Integration Results



RT: 3.71

Area: 43500

Amount: 0.510659

Amount Units: ug/l

Reviewer: virayd, 01-Dec-2020 11:54:17

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D

Injection Date: 30-Nov-2020 14:41:30

Instrument ID: 16334

Lims ID: IC std2

Client ID:

Operator ID: DVV10203

ALS Bottle#:

7

Worklist Smp#: 8

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

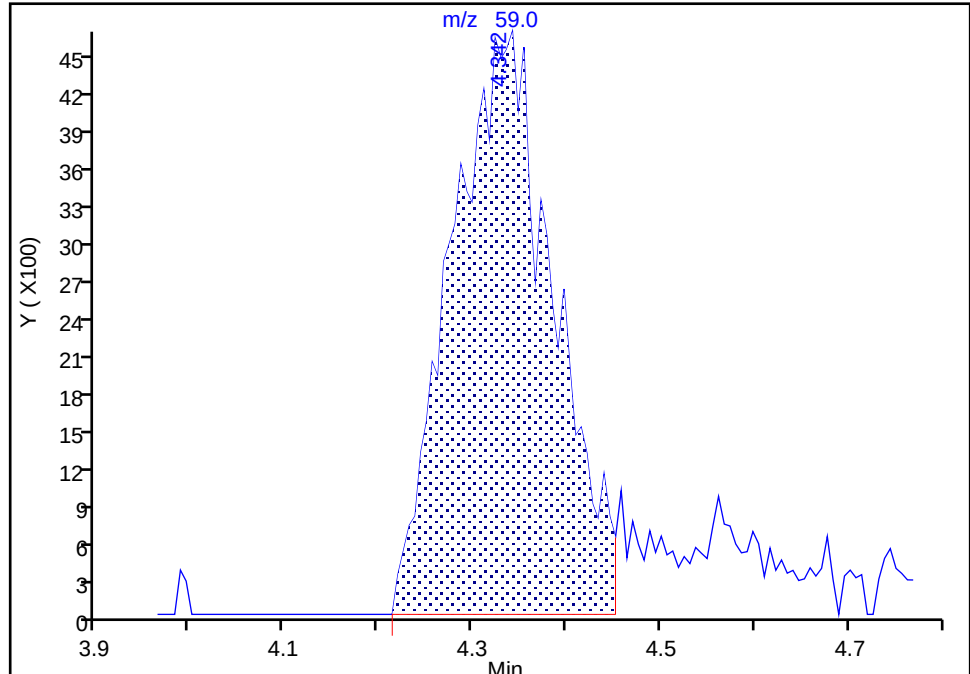
MS Quad

30 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

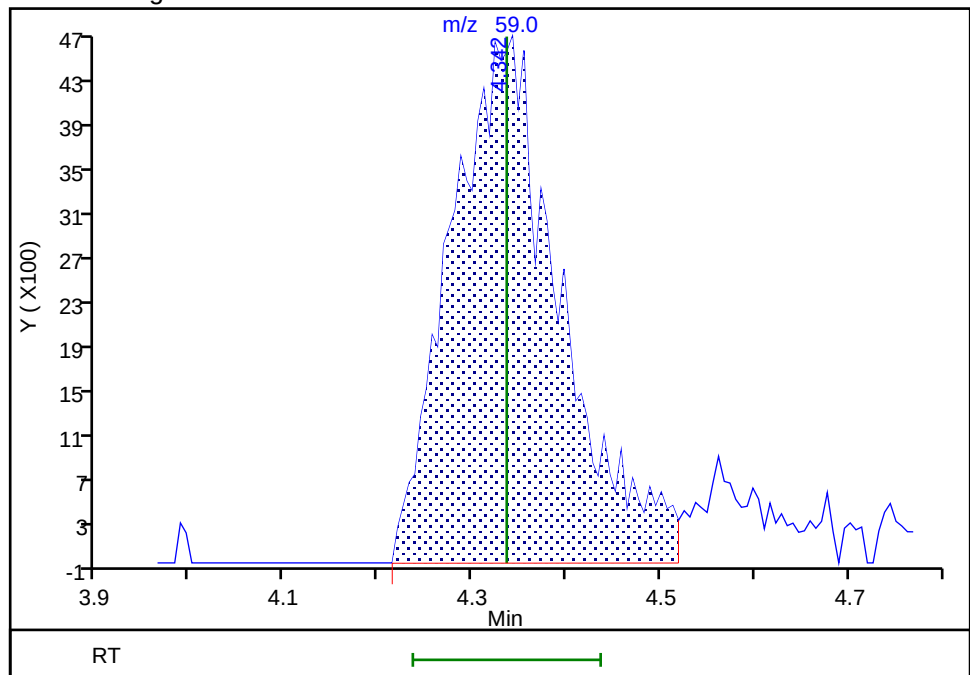
RT: 4.34
Area: 34943
Amount: 10.111494
Amount Units: ug/l

Processing Integration Results



RT: 4.34
Area: 37272
Amount: 10.585071
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:54:40

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

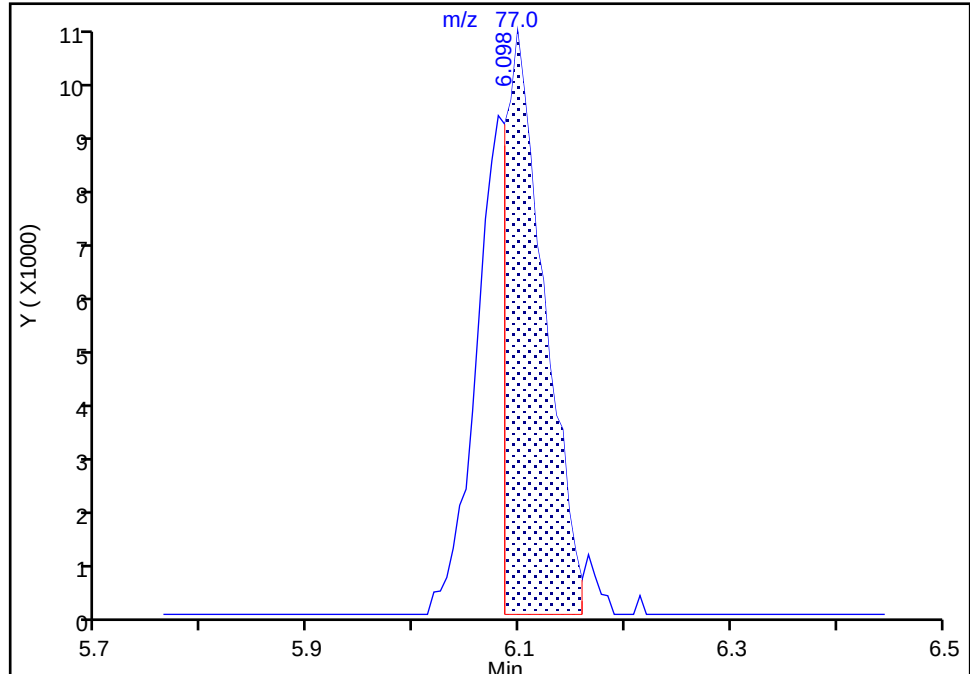
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D
Injection Date: 30-Nov-2020 14:41:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: DVV10203 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

42 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

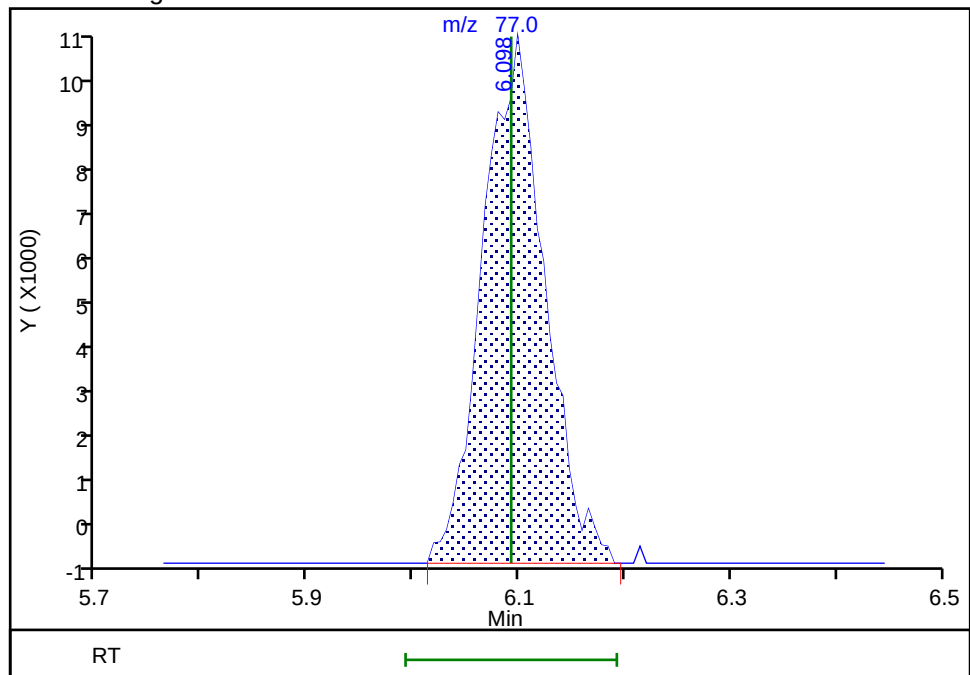
RT: 6.10
Area: 26319
Amount: 0.397289
Amount Units: ug/l

Processing Integration Results



RT: 6.10
Area: 41487
Amount: 0.507611
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:54:54
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

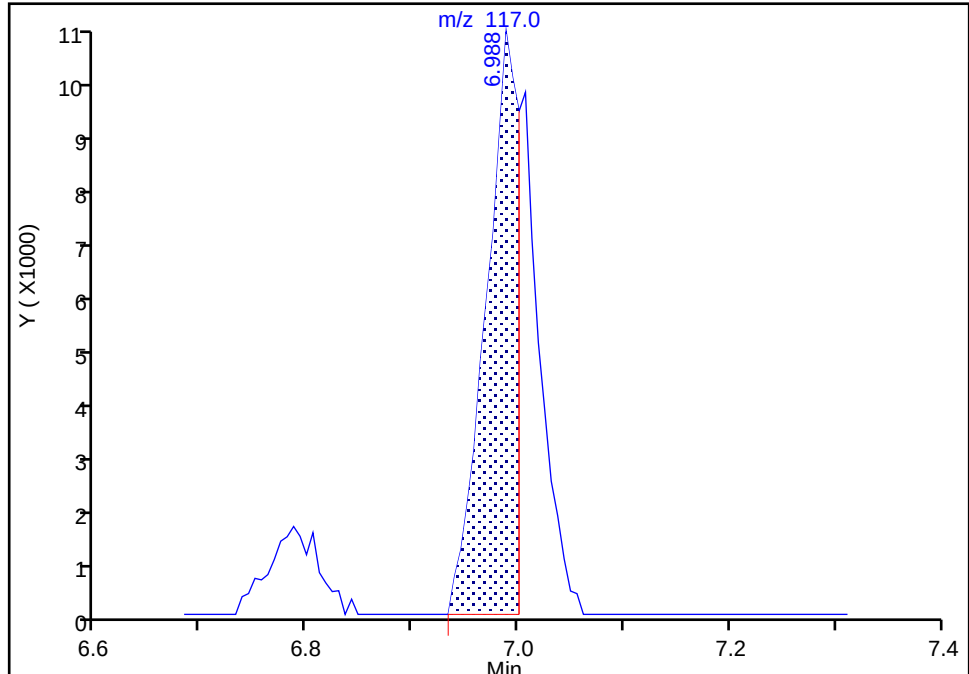
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D
Injection Date: 30-Nov-2020 14:41:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: DVV10203 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

56 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

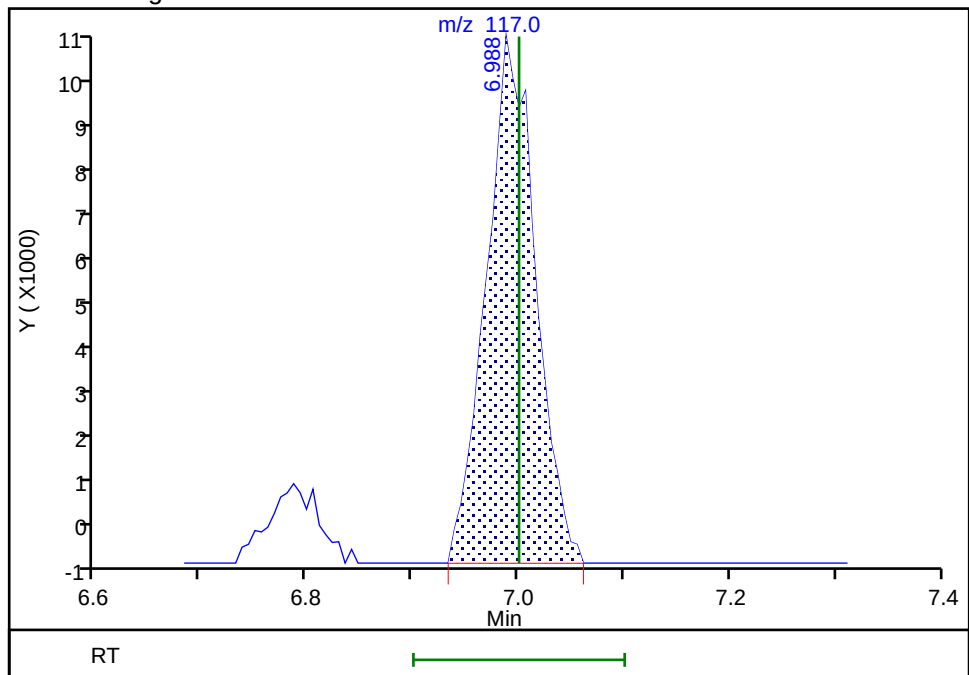
RT: 6.99
Area: 23019
Amount: 0.365200
Amount Units: ug/l

Processing Integration Results



RT: 6.99
Area: 34456
Amount: 0.494529
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:55:06
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

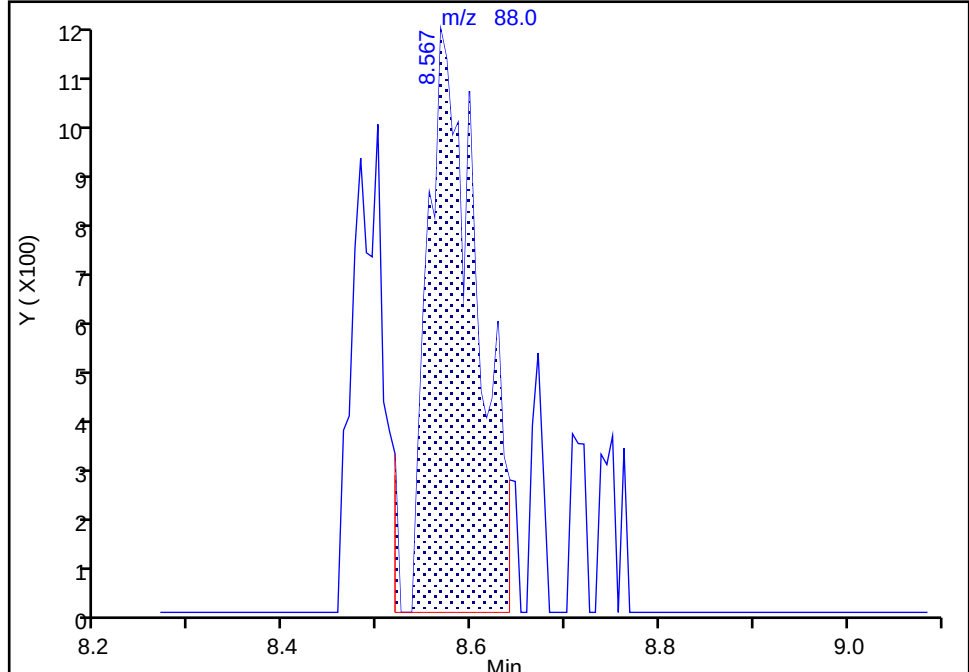
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D
Injection Date: 30-Nov-2020 14:41:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: DVV10203 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

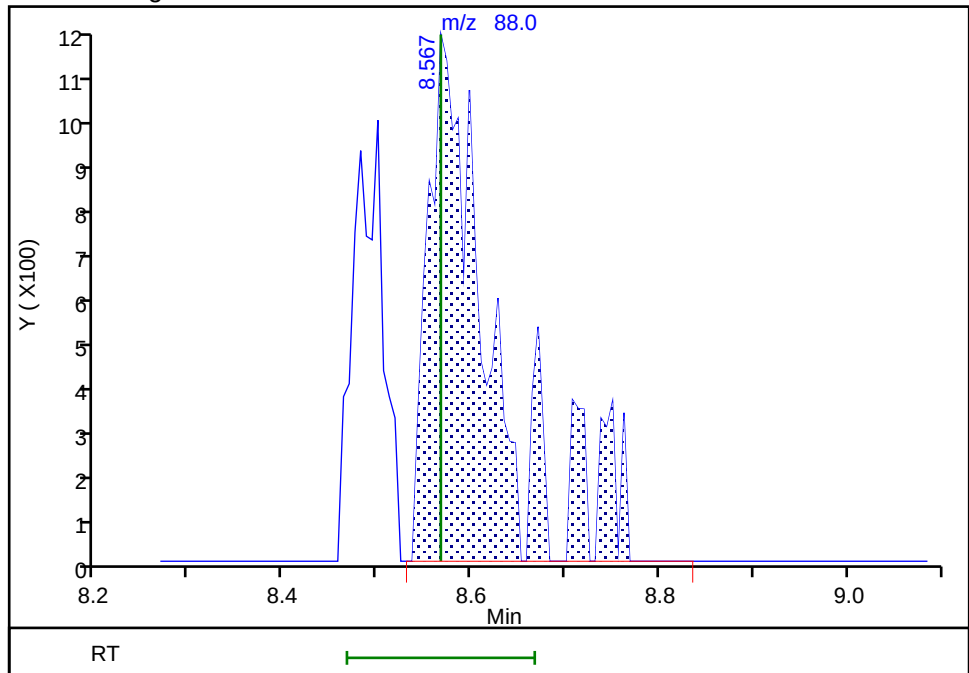
RT: 8.57
Area: 4232
Amount: 19.816218
Amount Units: ug/l

Processing Integration Results



RT: 8.57
Area: 5456
Amount: 24.234851
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:55:21
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D

Injection Date: 30-Nov-2020 14:41:30

Instrument ID: 16334

Lims ID: IC std2

Client ID:

Operator ID: DVV10203

ALS Bottle#:

7

Worklist Smp#: 8

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

MS Quad

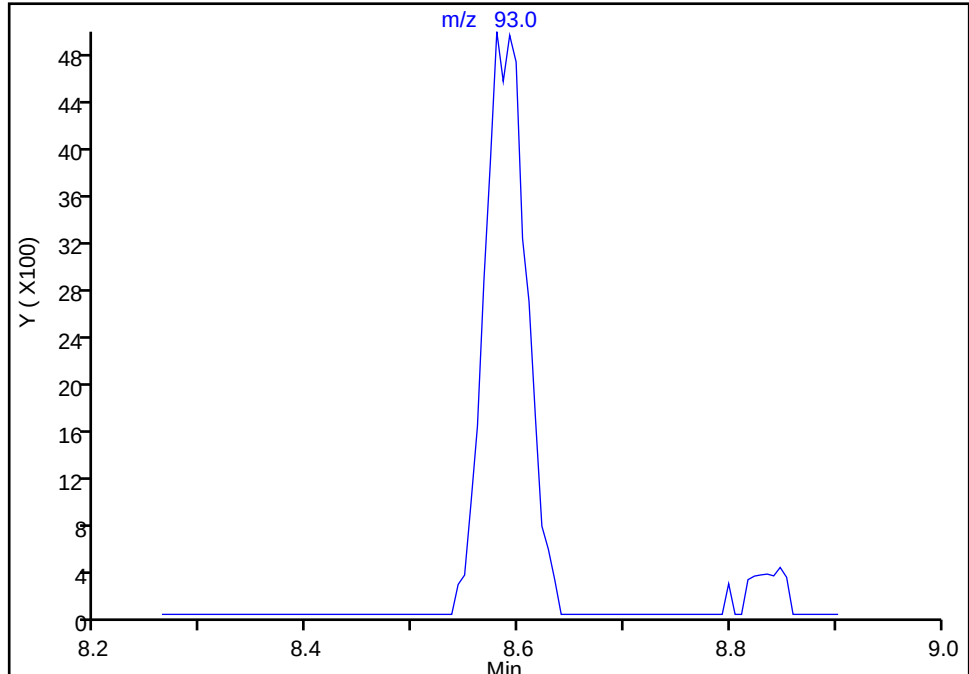
73 Dibromomethane, CAS: 74-95-3

Signal: 1

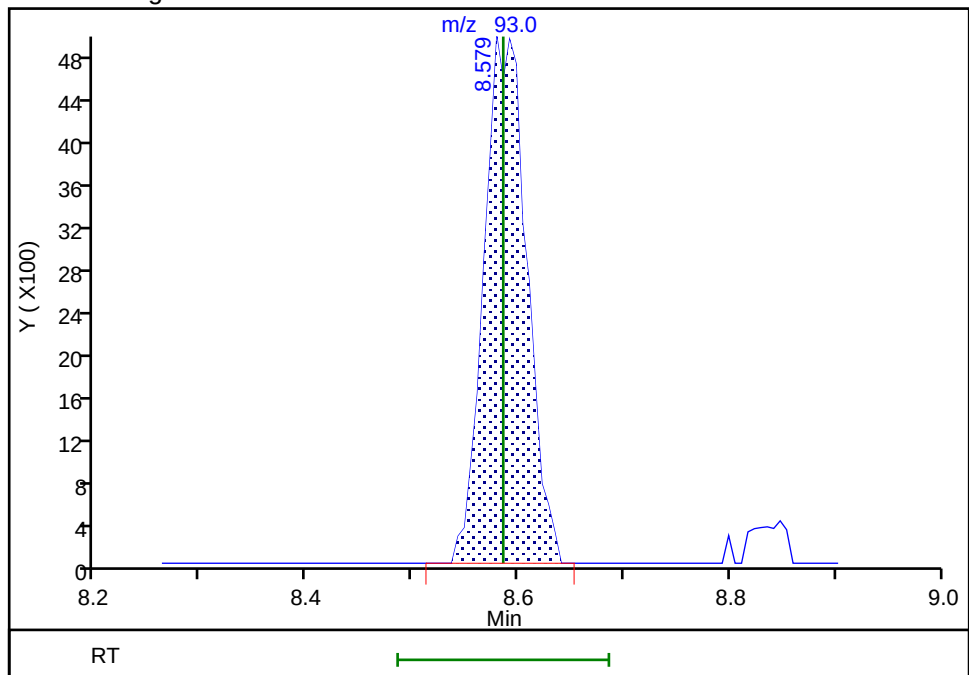
Not Detected

Expected RT: 8.59

Processing Integration Results



Manual Integration Results



RT: 8.58

Area: 13777

Amount: 0.499344

Amount Units: ug/l

Reviewer: virayd, 01-Dec-2020 11:55:26

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D
 Lims ID: IC std1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 30-Nov-2020 15:03:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0016641-009
 Misc. Info.: IC STD1
 Operator ID: DVV10203 Instrument ID: 16334
 Sublist: chrom-MSV_16334_25mL*sub4
 Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Dec-2020 18:58:07 Calib Date: 30-Nov-2020 18:23:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1610

First Level Reviewer: virayd

Date: 01-Dec-2020 12:00:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.940	1.953	-0.013	86	10440	0.2000	0.1821	
5 Chloromethane	50	2.129	2.148	-0.019	99	17041	0.2000	0.2203	
6 Butadiene	39	2.245	2.264	-0.019	93	21243	0.2000	0.2413	M
7 Vinyl chloride	62	2.251	2.270	-0.019	86	13930	0.2000	0.2110	M
9 Bromomethane	94	2.581	2.593	-0.012	89	10477	0.2000	0.2277	
10 Chloroethane	64	2.654	2.666	-0.012	97	8907	0.2000	0.2223	
11 Dichlorofluoromethane	67	2.898	2.904	-0.006	96	22123	0.2000	0.2464	M
13 Trichlorofluoromethane	101	2.959	2.977	-0.019	95	14649	0.2000	0.1928	M
15 Ethyl ether	59	3.202	3.208	-0.006	97	8950	0.2000	0.1995	M
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.294	3.300	-0.006	89	13355	0.2000	0.2150	
18 Acrolein	56	3.373	3.385	-0.012	99	71856	10.0	10.2	M
19 1,1-Dichloroethene	96	3.507	3.519	-0.012	96	9428	0.2000	0.2053	
21 112TCTFE	101	3.544	3.556	-0.012	79	6407	0.2000	0.1427	
20 Acetone	43	3.538	3.562	-0.024	98	23541	2.00	2.60	M
22 Iodomethane	142	3.696	3.714	-0.018	99	16625	0.2000	0.1938	
23 Isopropyl alcohol	45	3.721	3.727	-0.006	51	7582	4.00	4.34	
24 Ethyl bromide	108	3.721	3.739	-0.018	95	7681	0.2000	0.1920	
25 Carbon disulfide	76	3.800	3.812	-0.012	99	33137	0.2000	0.1957	
26 Methyl acetate	43	3.958	3.971	-0.012	21	6751	0.2000	0.2460	M
27 3-Chloro-1-propene	41	3.977	3.989	-0.012	92	18885	0.2000	0.2055	M
28 Methylene Chloride	84	4.159	4.178	-0.019	92	10502	0.2000	0.1996	M
* 29 t-Butyl alcohol-d10 (IS)	65	4.190	4.214	-0.024	0	184731	50.0	50.0	
30 2-Methyl-2-propanol	59	4.324	4.336	-0.012	57	12558	4.00	3.78	M
31 Acrylonitrile	53	4.507	4.525	-0.018	87	10931	1.00	0.9322	
32 Methyl tert-butyl ether	73	4.556	4.580	-0.024	88	29258	0.2000	0.2004	
33 trans-1,2-Dichloroethene	96	4.574	4.586	-0.012	97	10478	0.2000	0.1982	
34 Hexane	57	5.007	5.007	0.000	91	12643	0.2000	0.1640	
36 1,1-Dichloroethane	63	5.232	5.251	-0.019	95	18828	0.2000	0.1919	
37 Isopropyl ether	45	5.300	5.306	-0.006	95	39957	0.2000	0.2002	
38 2-Chloro-1,3-butadiene	53	5.342	5.360	-0.018	90	17821	0.2000	0.1997	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.824	5.836	-0.012	99	36262	0.2000	0.1992	
40 2-Butanone (MEK)	43	6.043	6.049	-0.006	100	34375	2.00	2.05	
41 cis-1,2-Dichloroethene	96	6.074	6.086	-0.012	85	11304	0.2000	0.1904	
42 2,2-Dichloropropane	77	6.080	6.092	-0.012	65	16476	0.2000	0.2002	M
44 Propionitrile	54	6.135	6.147	-0.012	97	14908	4.00	3.58	
S 49 1,2-Dichloroethene, Total	100				0			0.3886	
46 Methacrylonitrile	67	6.354	6.360	-0.006	94	32580	2.00	2.11	M
48 Chlorobromomethane	128	6.409	6.409	0.000	85	5366	0.2000	0.2028	
47 Tetrahydrofuran	71	6.415	6.409	0.006	82	8871	2.00	2.04	
50 Chloroform	83	6.555	6.561	-0.006	93	18700	0.2000	0.1978	
\$ 52 Dibromofluoromethane (Surr)	113	6.769	6.781	-0.012	94	526196	10.0	9.86	
51 1,1,1-Trichloroethane	97	6.793	6.787	0.006	12	16224	0.2000	0.2005	M
53 Cyclohexane	56	6.866	6.878	-0.012	92	15080	0.2000	0.1621	M
56 Carbon tetrachloride	117	6.994	7.000	-0.006	94	13772	0.2000	0.1963	M
55 1,1-Dichloropropene	75	7.000	7.000	0.000	90	15173	0.2000	0.1995	
57 Isobutyl alcohol	41	7.165	7.165	0.000	85	14998	10.0	12.0	M
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.232	-0.012	0	112511	10.0	9.91	
59 Benzene	78	7.250	7.263	-0.013	95	44170	0.2000	0.1971	
60 1,2-Dichloroethane	62	7.330	7.336	-0.006	95	14128	0.2000	0.2254	
62 Tert-amyl methyl ether	73	7.445	7.458	-0.013	98	31976	0.2000	0.1993	
* 63 Fluorobenzene (IS)	96	7.665	7.671	-0.006	98	2204755	10.0	10.0	
64 n-Heptane	43	7.671	7.677	-0.006	36	14986	0.2000	0.1723	
65 n-Butanol	56	8.049	8.049	0.000	89	26057	20.0	21.8	
67 Trichloroethene	95	8.140	8.147	-0.007	73	11723	0.2000	0.2048	M
68 Methylcyclohexane	83	8.451	8.451	0.000	92	15769	0.2000	0.1774	
69 1,2-Dichloropropane	63	8.482	8.482	0.000	89	12189	0.2000	0.2033	
70 2-ethoxy-2-methyl butane	87	8.488	8.488	0.000	91	17353	0.2000	0.1979	
72 1,4-Dioxane	88	8.567	8.567	0.000	36	1248	10.0	5.88	M
71 Methyl methacrylate	69	8.561	8.567	-0.006	94	6248	0.2000	0.1987	M
73 Dibromomethane	93	8.579	8.585	-0.006	97	5716	0.2000	0.2057	
75 Dichlorobromomethane	83	8.817	8.823	-0.006	98	13698	0.2000	0.1970	
76 2-Nitropropane	41	9.110	9.110	0.000	96	18191	2.00	2.04	
79 1-Bromo-2-chloroethane	63	9.213	9.219	-0.006	97	12526	0.2000	0.1949	
80 cis-1,3-Dichloropropene	75	9.372	9.378	-0.006	94	17452	0.2000	0.1934	
81 4-Methyl-2-pentanone (MIBK)	43	9.561	9.561	0.000	98	86421	2.00	2.00	
\$ 82 Toluene-d8 (Surr)	98	9.683	9.689	-0.006	94	2122568	10.0	10.1	
83 Toluene	92	9.762	9.762	0.000	97	27572	0.2000	0.2016	
84 trans-1,3-Dichloropropene	75	10.024	10.024	0.000	94	14156	0.2000	0.1917	
S 87 1,3-Dichloropropene, Total	100				0			0.3851	
85 Ethyl methacrylate	69	10.091	10.085	0.006	88	13470	0.2000	0.2030	
86 1,1,2-Trichloroethane	97	10.225	10.231	-0.006	87	7932	0.2000	0.1988	
88 Tetrachloroethene	166	10.311	10.311	0.000	95	11458	0.2000	0.1931	
89 1,3-Dichloropropane	76	10.396	10.396	0.000	91	14652	0.2000	0.2036	
91 2-Hexanone	43	10.445	10.451	-0.006	98	62169	2.00	2.00	
93 Chlorodibromomethane	129	10.603	10.603	0.000	89	8808	0.2000	0.1861	
94 Ethylene Dibromide	107	10.713	10.713	0.000	99	7804	0.2000	0.1992	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	87	1578236	10.0	10.0	
96 1-Chlorohexane	91	11.158	11.158	0.000	91	18485	0.2000	0.2250	
97 Chlorobenzene	112	11.176	11.176	0.000	96	30598	0.2000	0.2008	
S 101 Xylenes, Total	106				0			0.5945	
98 1,1,1,2-Tetrachloroethane	131	11.256	11.256	0.000	95	10378	0.2000	0.1917	
99 Ethylbenzene	91	11.262	11.262	0.000	99	56042	0.2000	0.2074	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.371	11.378	-0.007	96	39788	0.4000	0.3906	
102 o-Xylene	106	11.707	11.707	0.000	96	20593	0.2000	0.2039	
103 Styrene	104	11.719	11.719	0.000	95	34193	0.2000	0.1987	
104 Bromoform	173	11.877	11.877	0.000	94	4668	0.2000	0.1690	
105 Isopropylbenzene	105	12.006	12.006	0.000	96	53210	0.2000	0.2014	
\$ 108 4-Bromofluorobenzene (Surr)	95	12.146	12.152	-0.006	89	812877	10.0	10.1	
109 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	93	10124	0.2000	0.1878	
110 Bromobenzene	156	12.268	12.268	0.000	95	12894	0.2000	0.1992	
111 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	95	23186	2.00	1.73	
112 1,2,3-Trichloropropane	110	12.298	12.304	-0.006	78	2519	0.2000	0.1833	
113 N-Propylbenzene	91	12.335	12.335	0.000	98	65333	0.2000	0.2024	
114 2-Chlorotoluene	126	12.408	12.414	-0.006	96	12758	0.2000	0.2010	
115 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	93	43880	0.2000	0.1927	
116 4-Chlorotoluene	126	12.505	12.505	0.000	97	12838	0.2000	0.1940	
118 tert-Butylbenzene	134	12.713	12.713	0.000	94	9709	0.2000	0.1997	
120 Pentachloroethane	167	12.743	12.743	0.000	82	7836	0.2000	0.1875	
119 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	47673	0.2000	0.2005	
121 sec-Butylbenzene	105	12.877	12.877	0.000	94	59733	0.2000	0.2017	
122 1,3-Dichlorobenzene	146	12.975	12.975	0.000	98	26068	0.2000	0.1997	
123 4-Isopropyltoluene	119	12.981	12.981	0.000	97	50640	0.2000	0.1968	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	96	857732	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.042	13.048	-0.006	93	26967	0.2000	0.2028	
126 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	97	22584	0.2000	0.2142	
127 Benzyl chloride	126	13.127	13.127	0.000	98	4530	0.2000	0.1943	
129 p-Diethylbenzene	119	13.182	13.182	0.000	91	30785	0.2000	0.1970	
130 n-Butylbenzene	92	13.274	13.274	0.000	97	27112	0.2000	0.1989	
131 1,2-Dichlorobenzene	146	13.310	13.310	0.000	97	24056	0.2000	0.1975	
134 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	84	1486	0.2000	0.1891	
135 1,3,5-Trichlorobenzene	180	13.975	13.975	0.000	97	22309	0.2000	0.2039	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	19946	0.2000	0.1978	
137 Hexachlorobutadiene	225	14.481	14.481	0.000	95	10231	0.2000	0.2067	
138 Naphthalene	128	14.578	14.578	0.000	97	37571	0.2000	0.2048	
139 1,2,3-Trichlorobenzene	180	14.718	14.718	0.000	96	18105	0.2000	0.2035	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	91	27463	0.2000	0.2094	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00031

Amount Added: 2.00

Units: uL

MSV_RV4GAS826_00097

Amount Added: 2.00

Units: uL

MSV_RV4_826_00035

Amount Added: 2.00

Units: uL

MSV_29_826ISS_00013

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Operator ID: DVV10203

Lims ID: IC std1

Worklist Smp#: 9

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

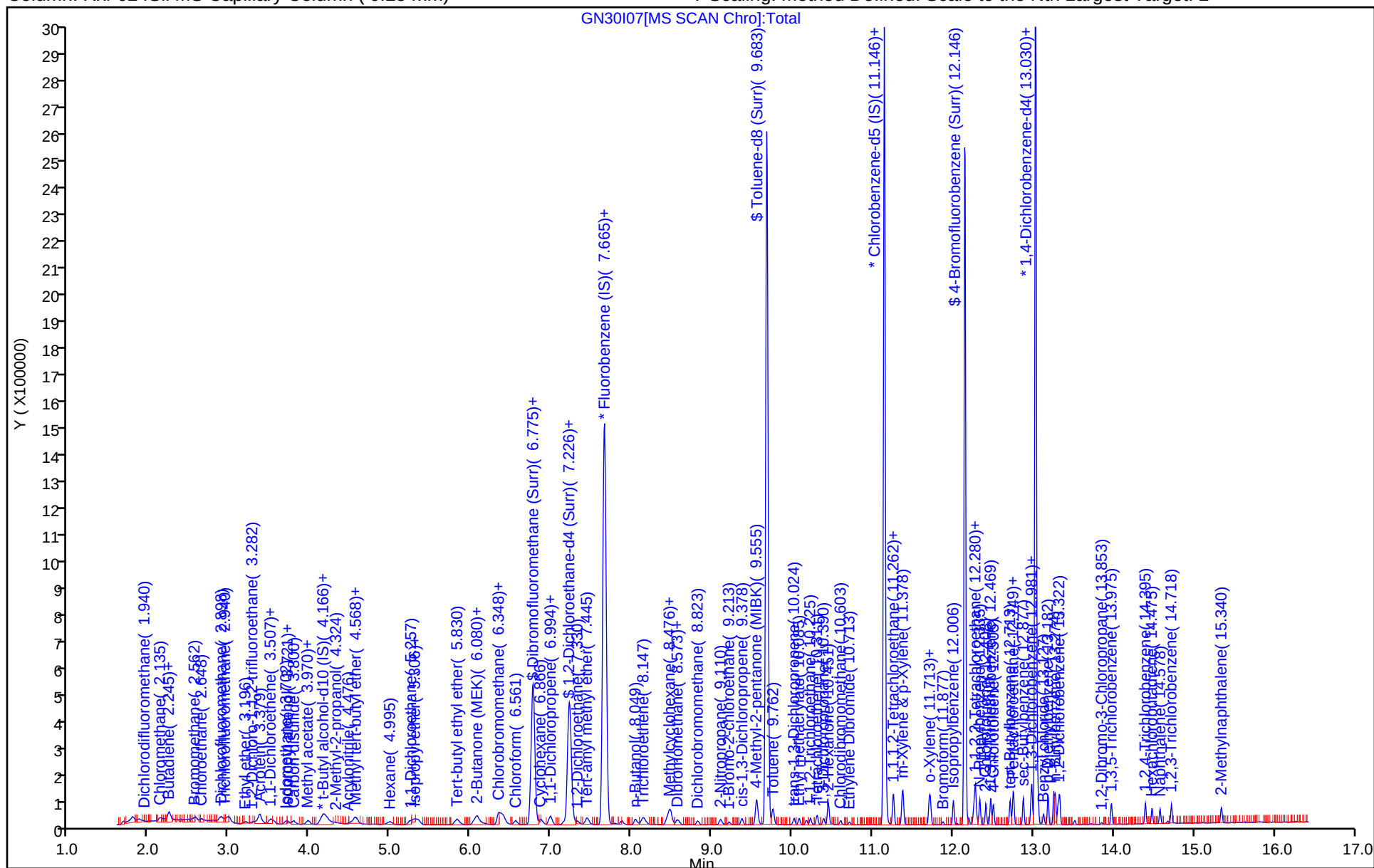
ALS Bottle#: 8

Method: MSV_16334_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 Env, LLC

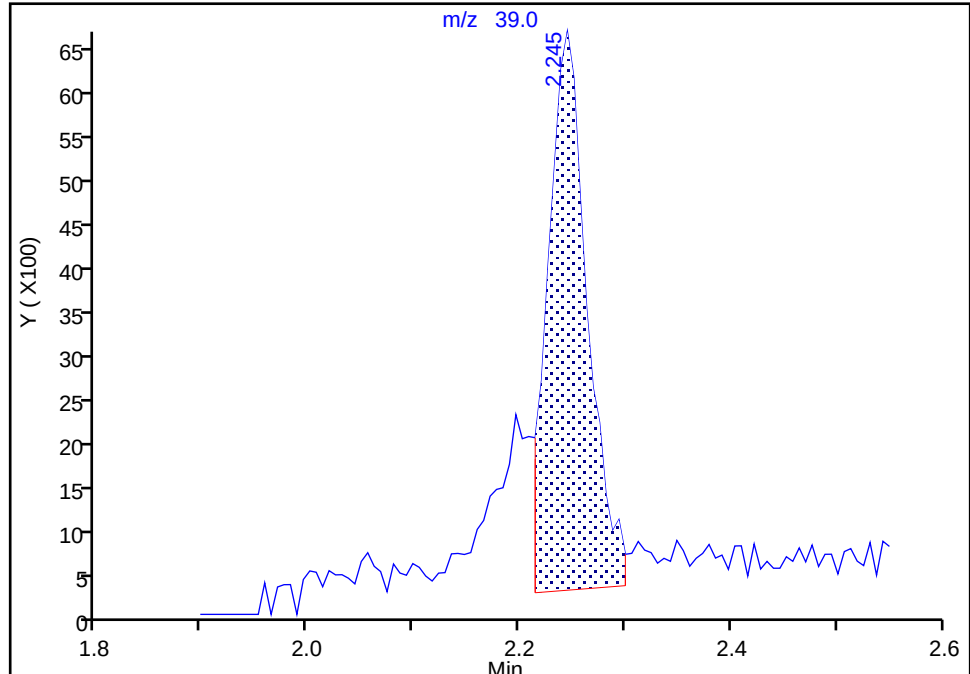
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D
Injection Date: 30-Nov-2020 15:03:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: DVV10203 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

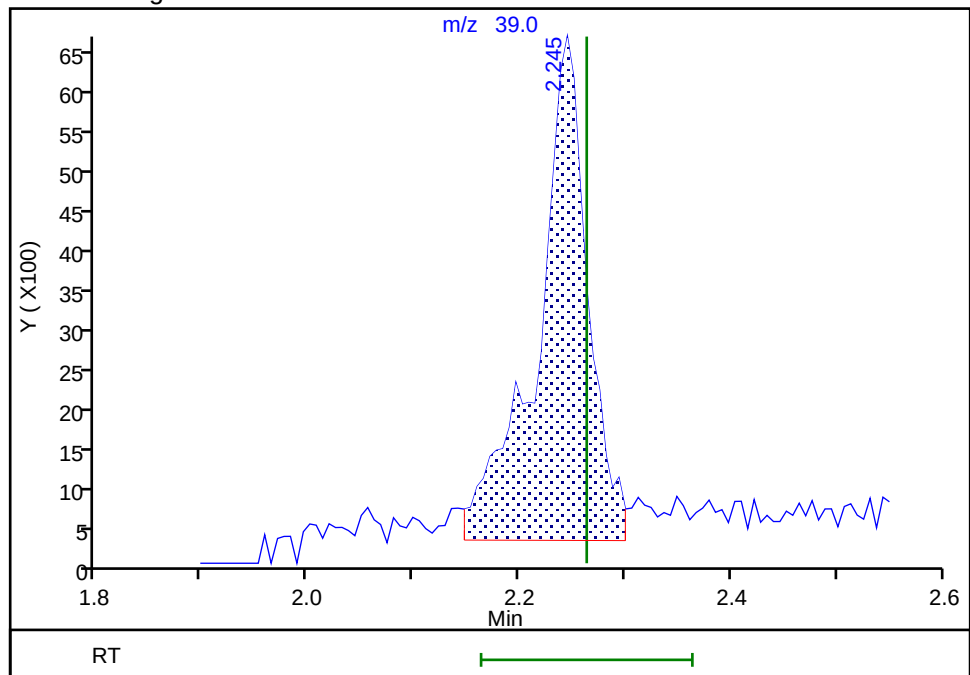
RT: 2.25
Area: 16681
Amount: 0.196763
Amount Units: ug/l

Processing Integration Results



RT: 2.25
Area: 21243
Amount: 0.241300
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:56:19
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Lims ID: IC std1

Client ID:

Operator ID: DVV10203

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

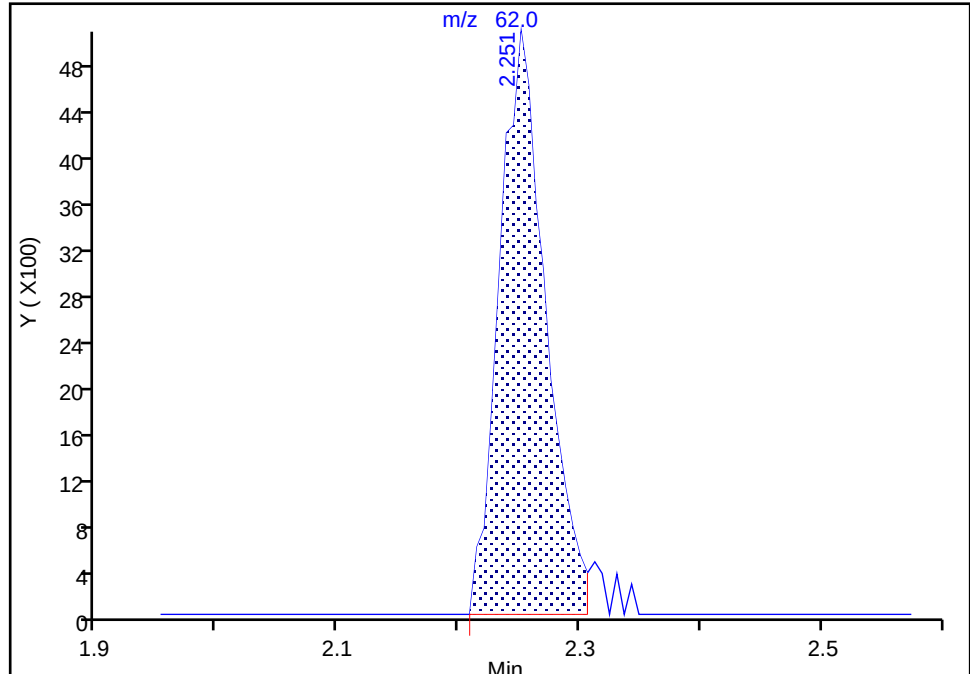
MS Quad

7 Vinyl chloride, CAS: 75-01-4

Signal: 1

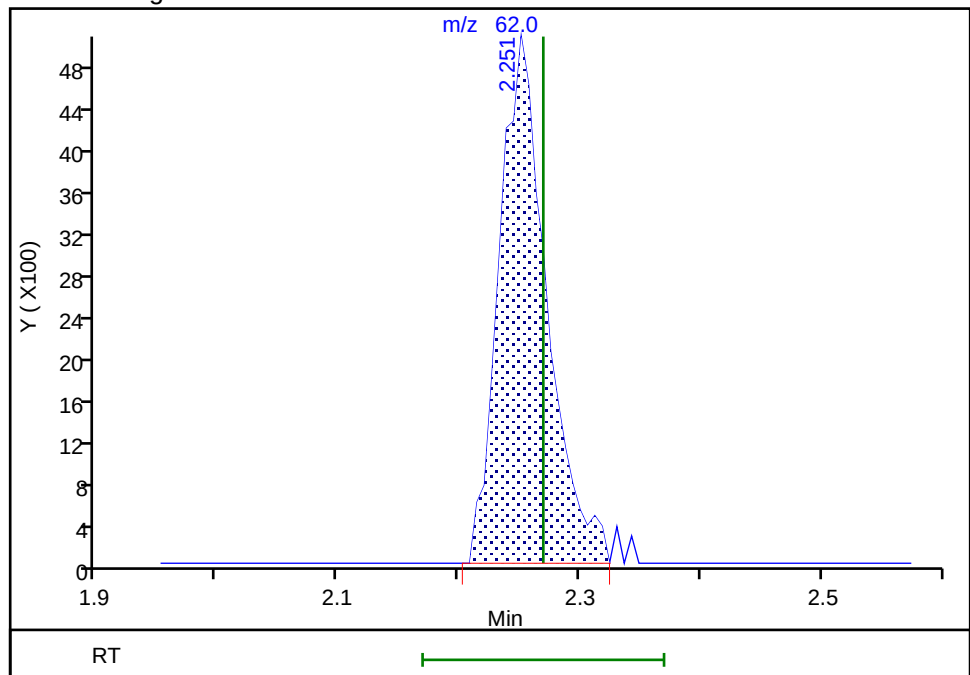
RT: 2.25
Area: 13633
Amount: 0.207129
Amount Units: ug/l

Processing Integration Results



RT: 2.25
Area: 13930
Amount: 0.210962
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:57:02

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Lims ID: IC std1

Client ID:

Operator ID: DVV10203

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

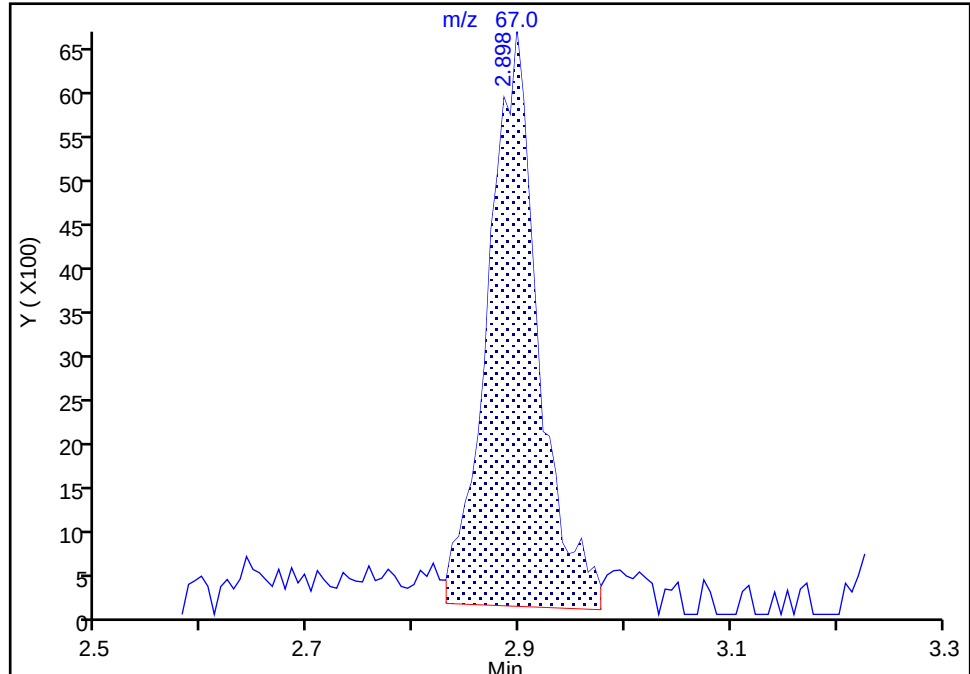
MS Quad

11 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

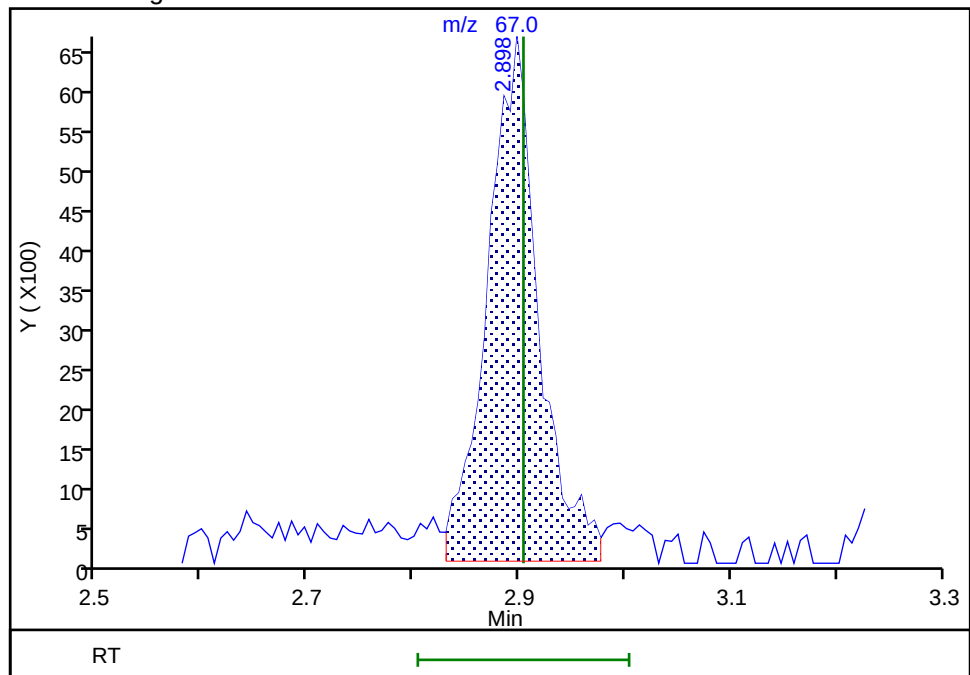
RT: 2.90
Area: 21552
Amount: 0.241088
Amount Units: ug/l

Processing Integration Results



RT: 2.90
Area: 22123
Amount: 0.246351
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:57:16

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Lims ID: IC std1

Client ID:

Operator ID: DVV10203

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

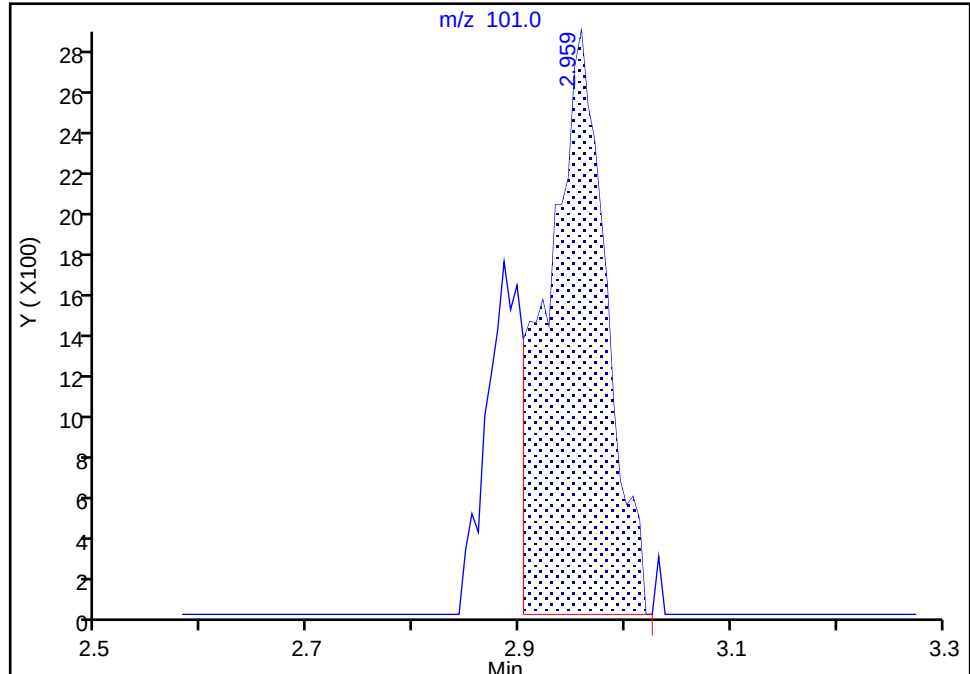
MS Quad

13 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

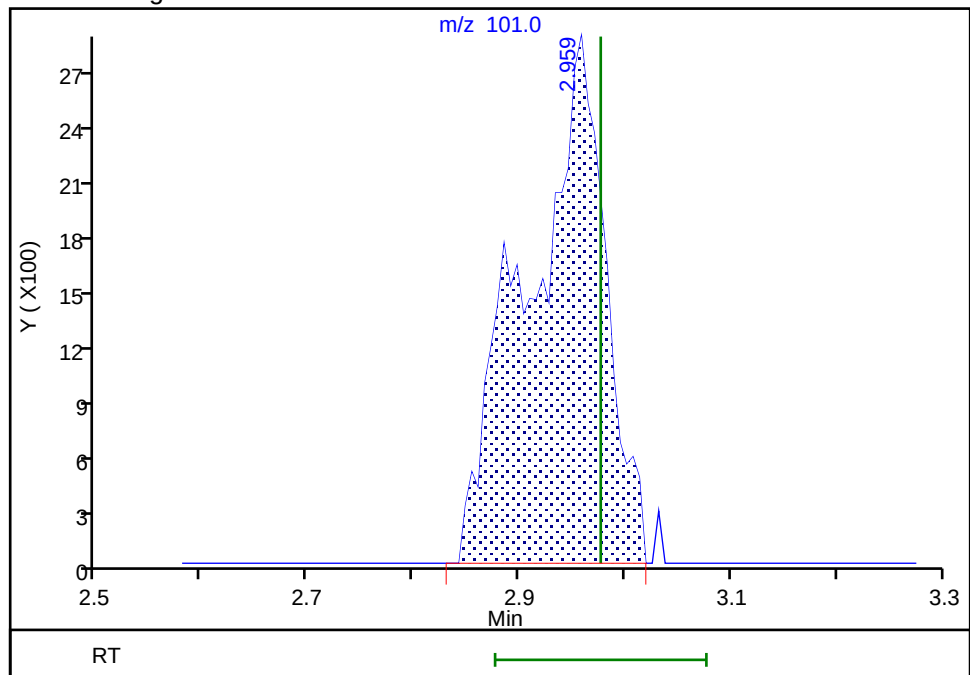
RT: 2.96
Area: 11144
Amount: 0.151648
Amount Units: ug/l

Processing Integration Results



RT: 2.96
Area: 14649
Amount: 0.192776
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:57:22

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Lims ID: IC std1

Client ID:

Operator ID: DVV10203

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

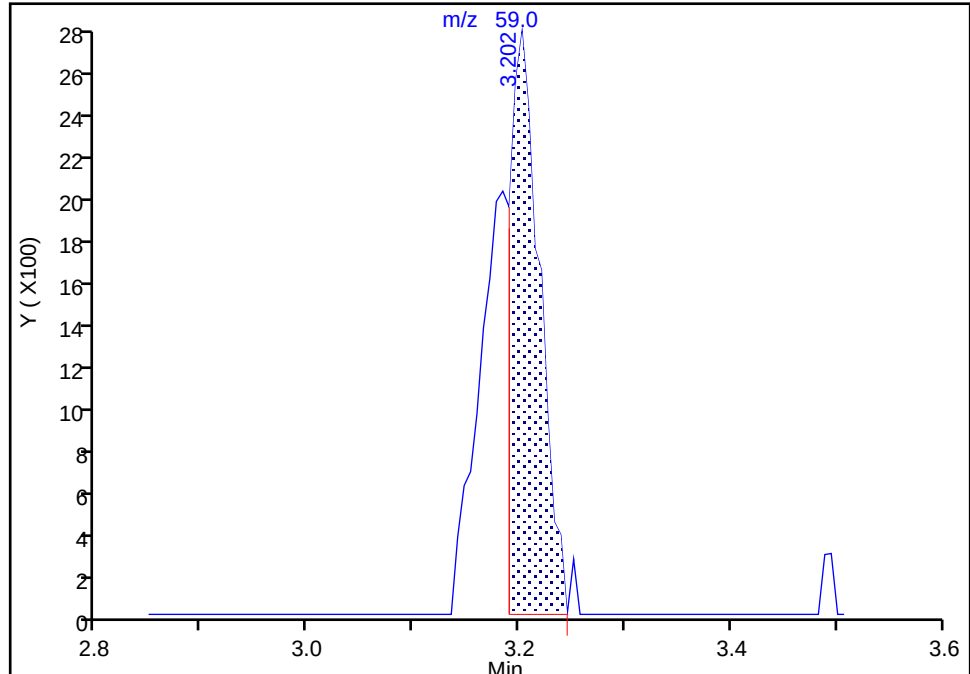
MS Quad

15 Ethyl ether, CAS: 60-29-7

Signal: 1

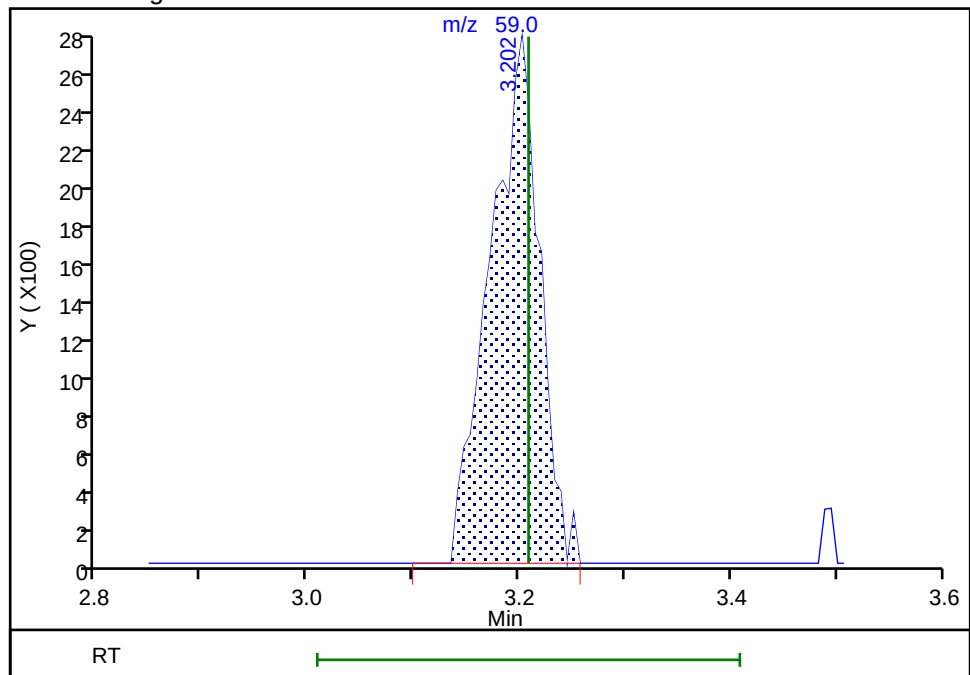
RT: 3.20
Area: 5379
Amount: 0.127140
Amount Units: ug/l

Processing Integration Results



RT: 3.20
Area: 8950
Amount: 0.199519
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:57:29

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Lims ID: IC std1

Client ID:

Operator ID: DVV10203

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

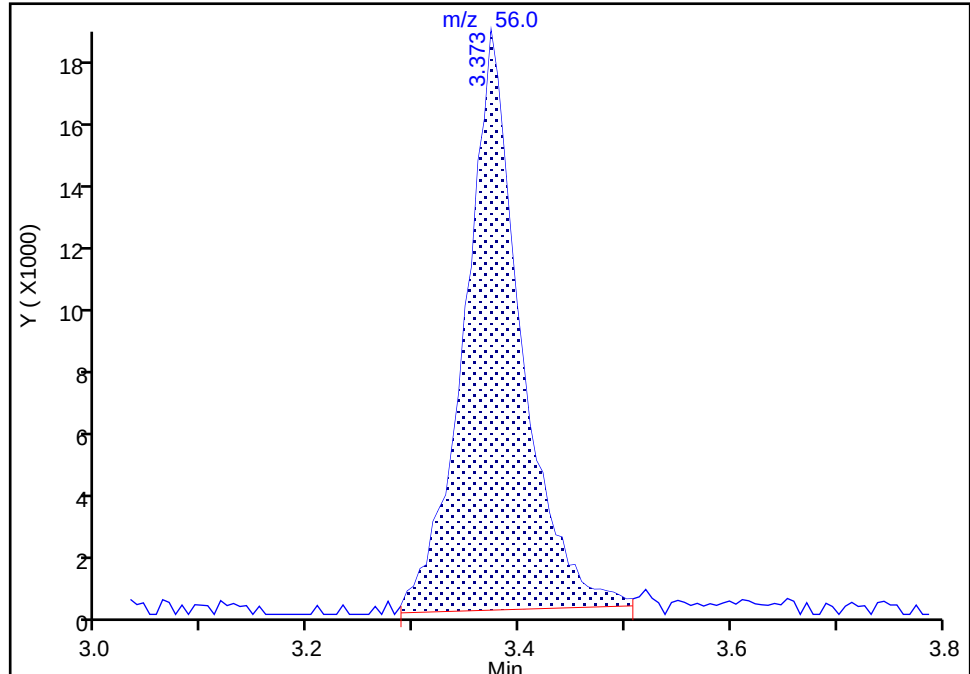
MS Quad

18 Acrolein, CAS: 107-02-8

Signal: 1

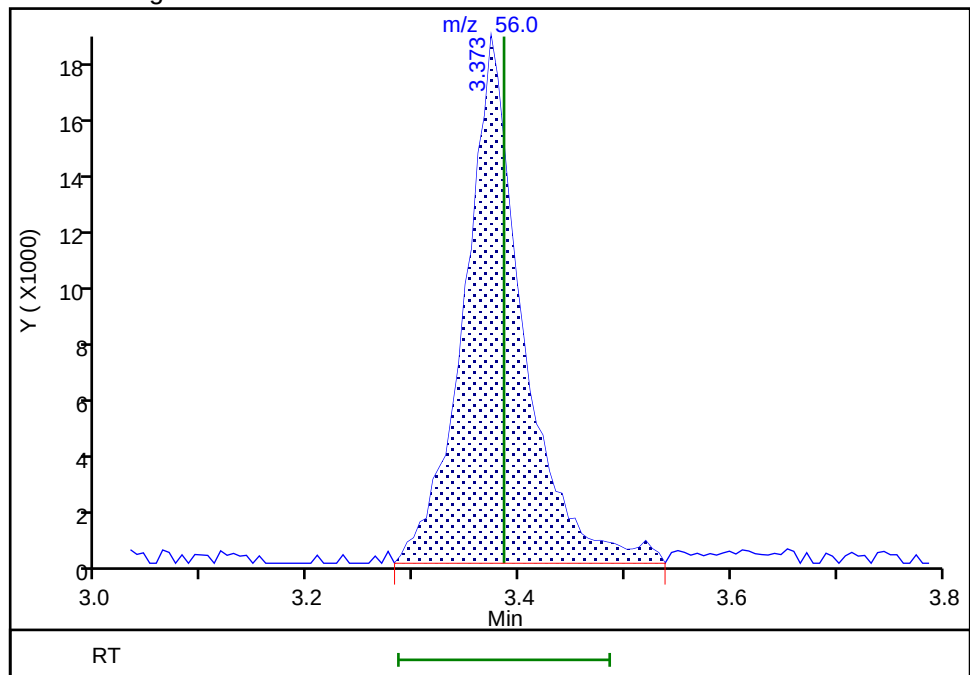
RT: 3.37
Area: 68852
Amount: 9.880650
Amount Units: ug/l

Processing Integration Results



RT: 3.37
Area: 71856
Amount: 10.248628
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:57:49

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Lims ID: IC std1

Client ID:

Operator ID: DVV10203

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

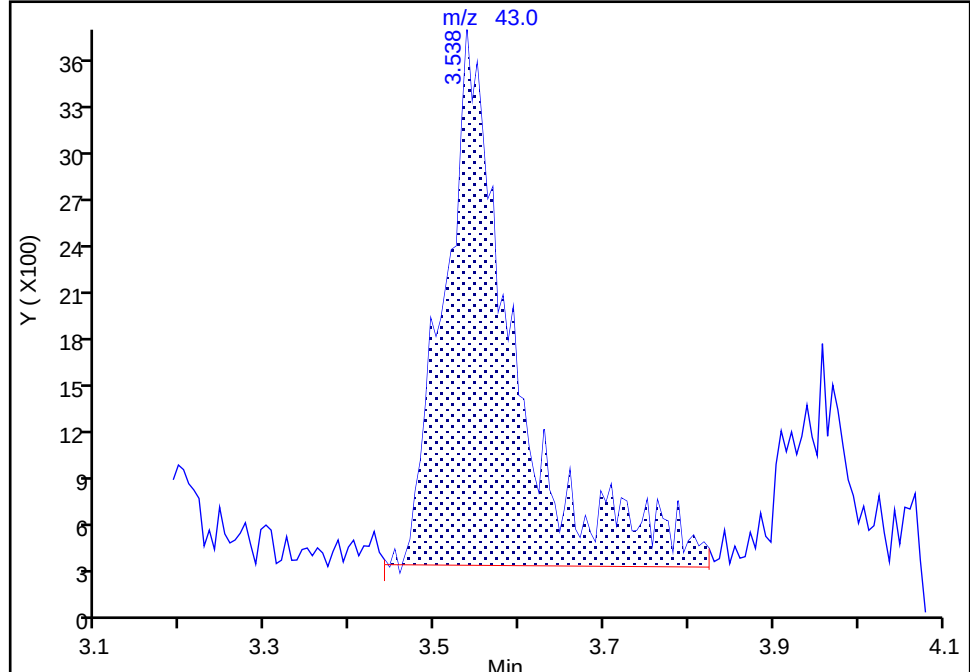
MS Quad

20 Acetone, CAS: 67-64-1

Signal: 1

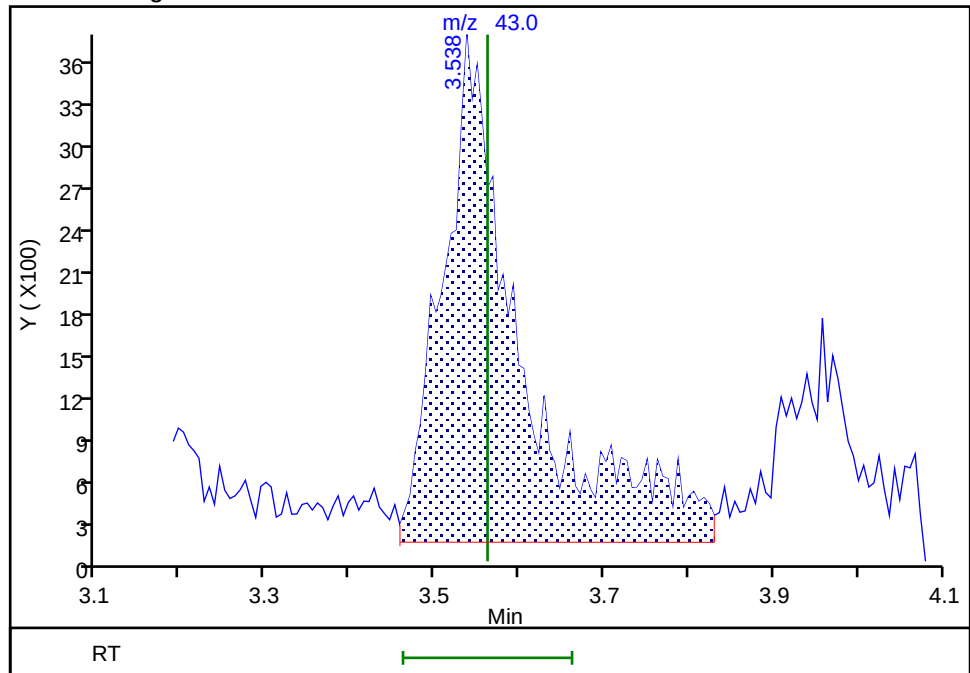
RT: 3.54
Area: 19830
Amount: 2.253640
Amount Units: ug/l

Processing Integration Results



RT: 3.54
Area: 23541
Amount: 2.597149
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:58:09

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Lims ID: IC std1

Client ID:

Operator ID: DVV10203

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

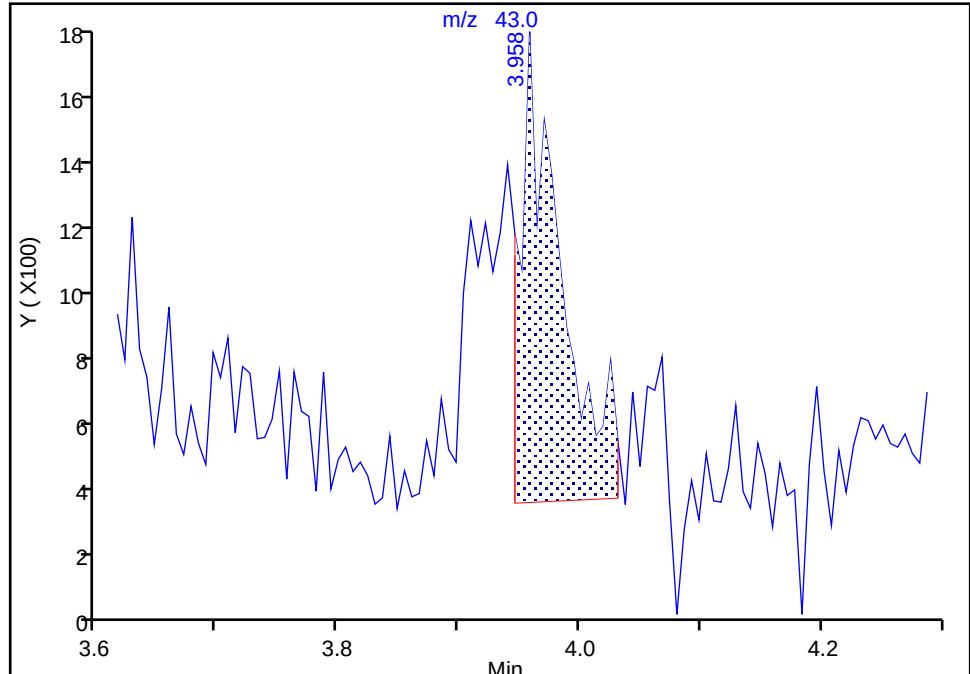
MS Quad

26 Methyl acetate, CAS: 79-20-9

Signal: 1

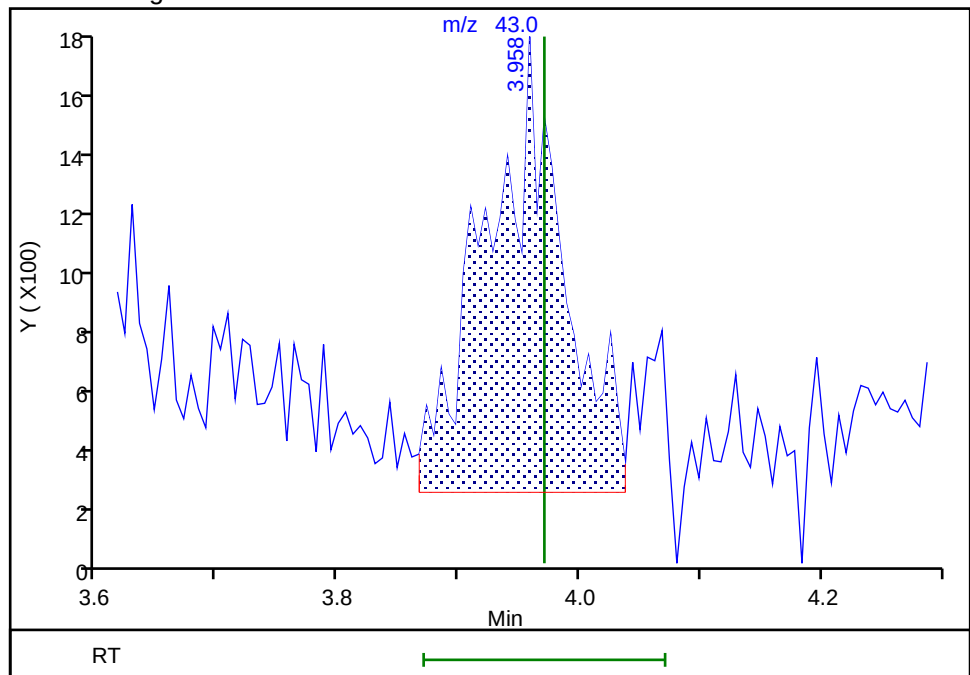
RT: 3.96
Area: 3318
Amount: 0.132791
Amount Units: ug/l

Processing Integration Results



RT: 3.96
Area: 6751
Amount: 0.246039
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:58:21

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Lims ID: IC std1

Client ID:

Operator ID: DVV10203

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

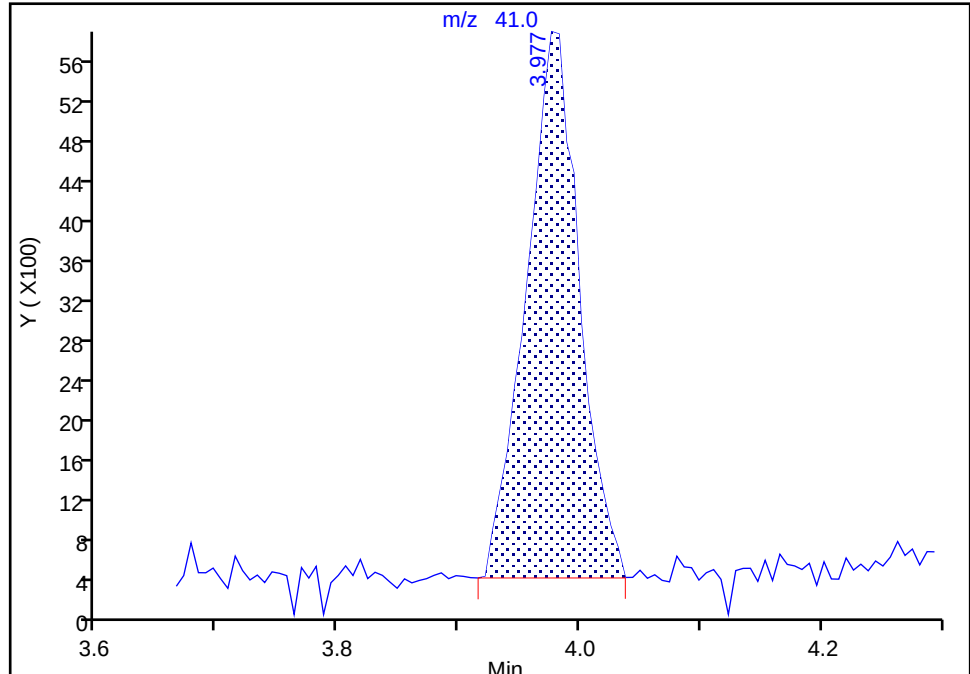
MS Quad

27 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

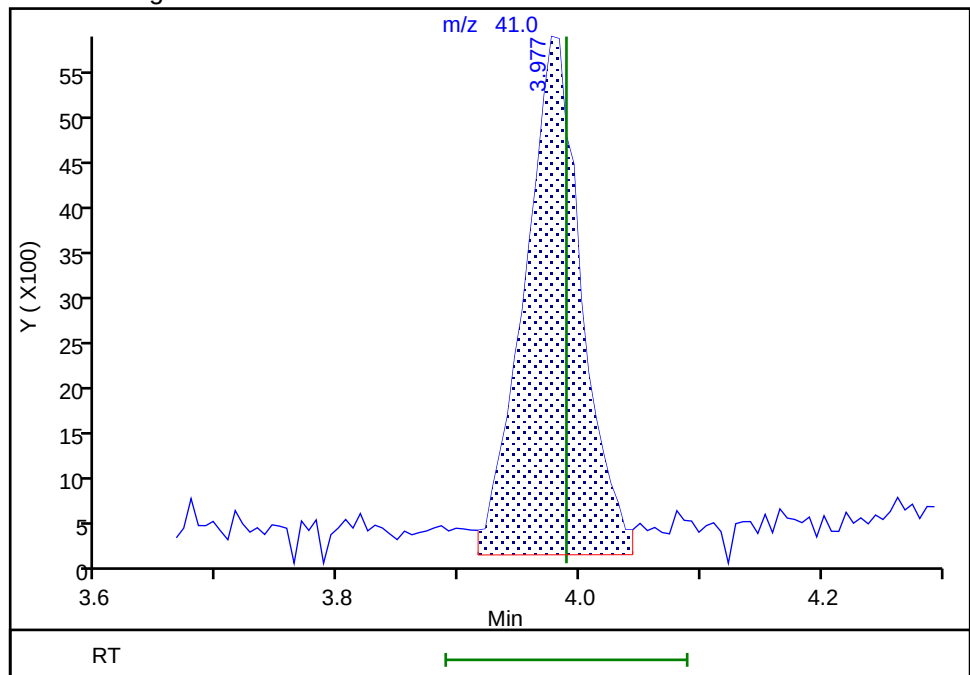
RT: 3.98
Area: 16697
Amount: 0.184837
Amount Units: ug/l

Processing Integration Results



RT: 3.98
Area: 18885
Amount: 0.205503
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:58:29

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Lims ID: IC std1

Client ID:

Operator ID: DVV10203

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

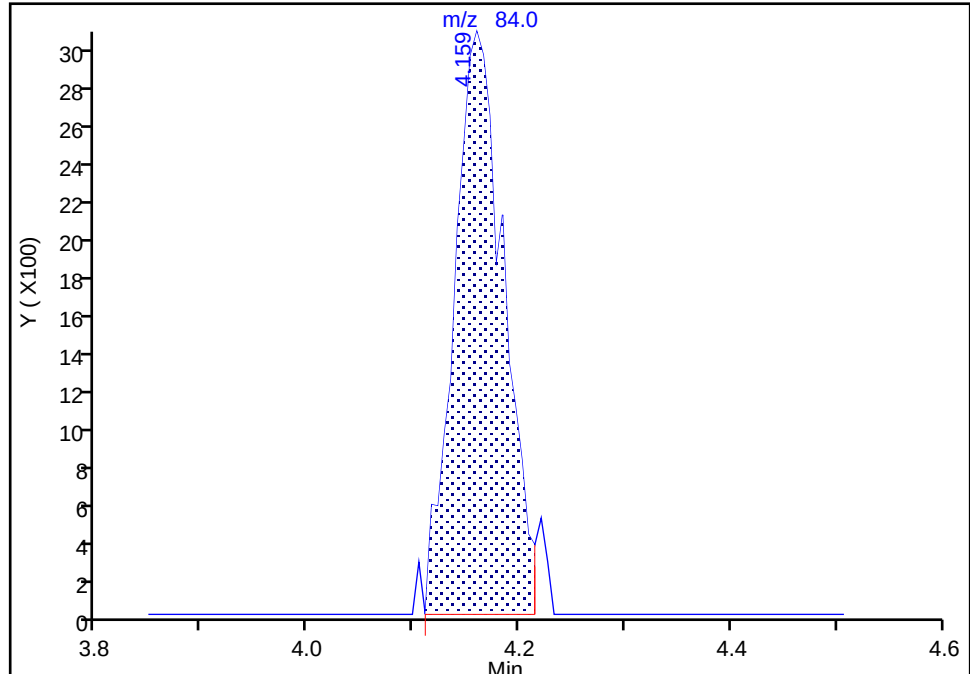
MS Quad

28 Methylene Chloride, CAS: 75-09-2

Signal: 1

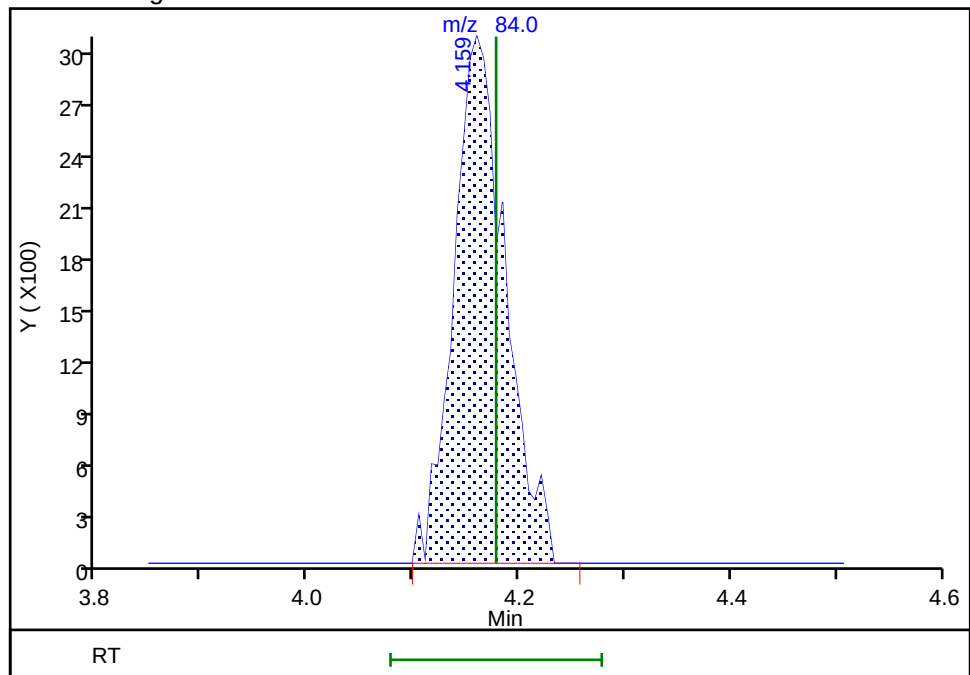
RT: 4.16
Area: 10112
Amount: 0.193174
Amount Units: ug/l

Processing Integration Results



RT: 4.16
Area: 10502
Amount: 0.199562
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:58:35

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

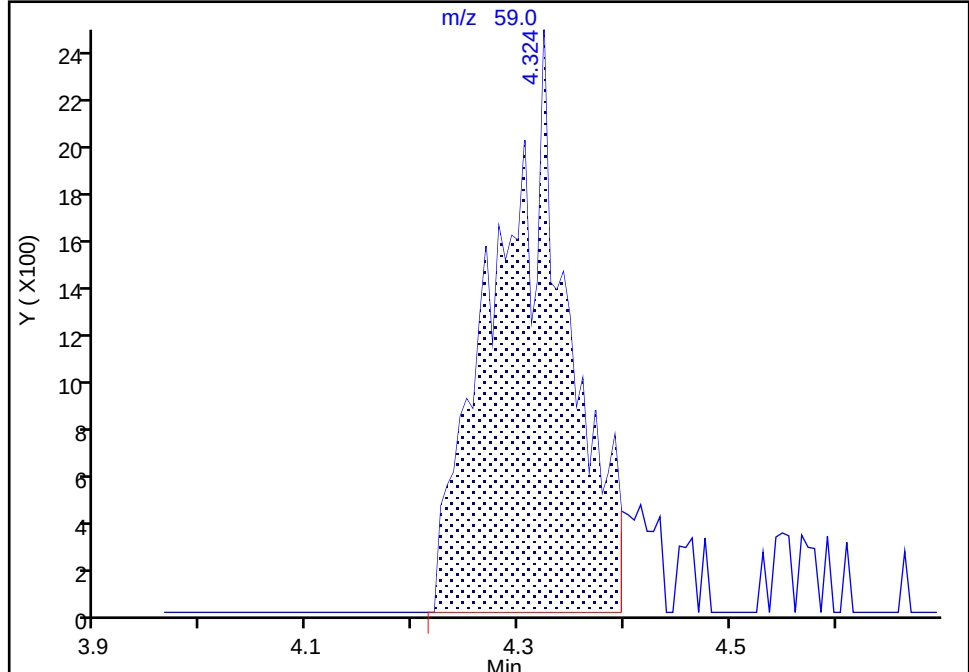
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D
Injection Date: 30-Nov-2020 15:03:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: DVV10203 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

30 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

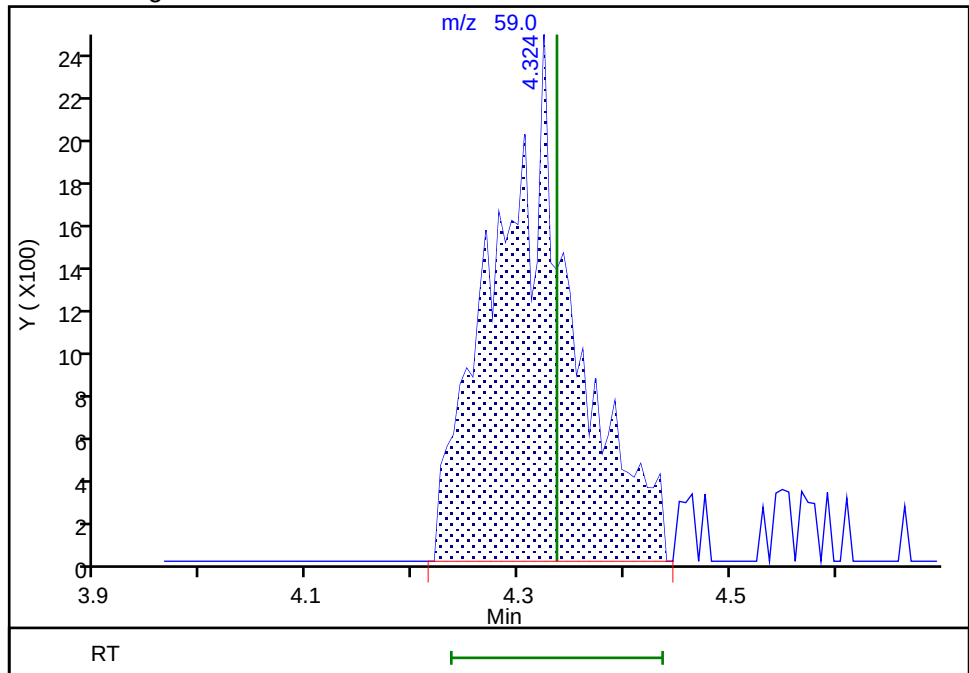
RT: 4.32
Area: 11709
Amount: 3.557640
Amount Units: ug/l

Processing Integration Results



RT: 4.32
Area: 12558
Amount: 3.780767
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:58:41
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Lims ID: IC std1

Client ID:

Operator ID: DVV10203

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

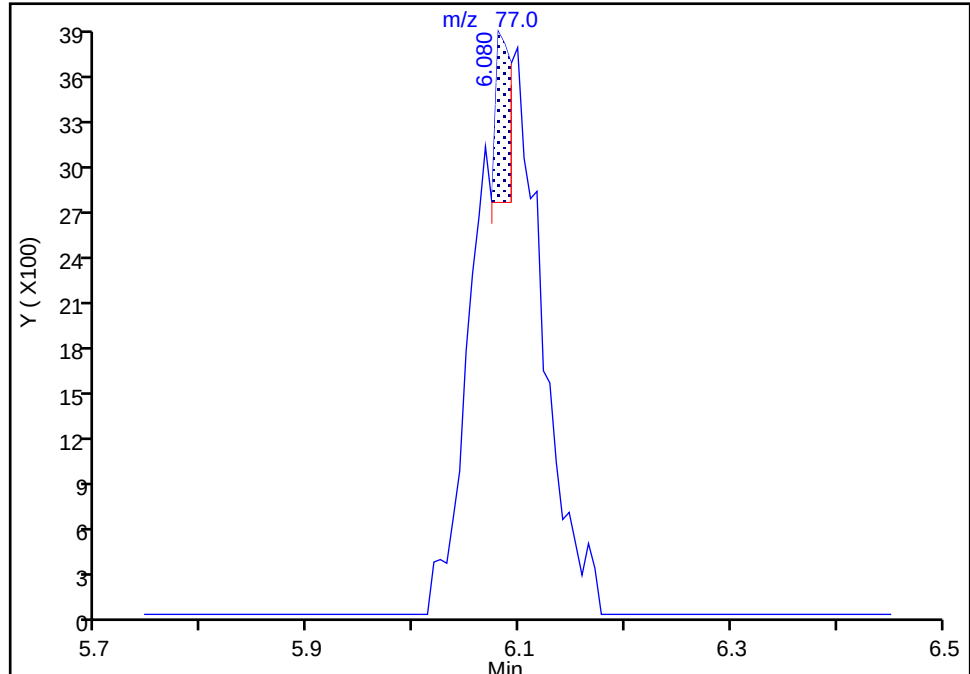
MS Quad

42 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

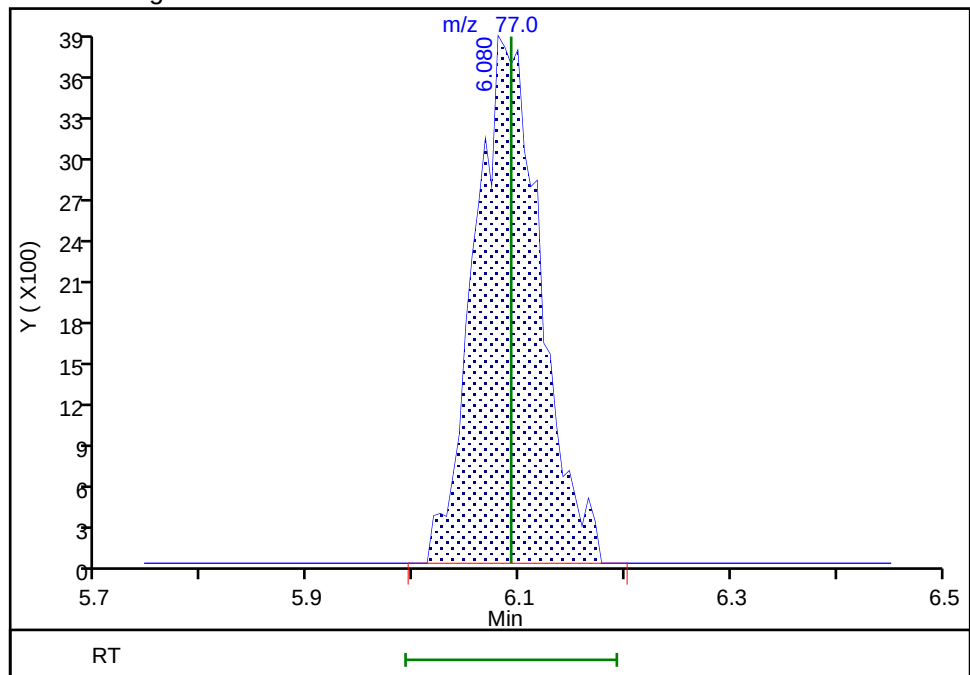
RT: 6.08
Area: 1118
Amount: 0.042823
Amount Units: ug/l

Processing Integration Results



RT: 6.08
Area: 16476
Amount: 0.200176
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:58:50

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Lims ID: IC std1

Client ID:

Operator ID: DVV10203

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

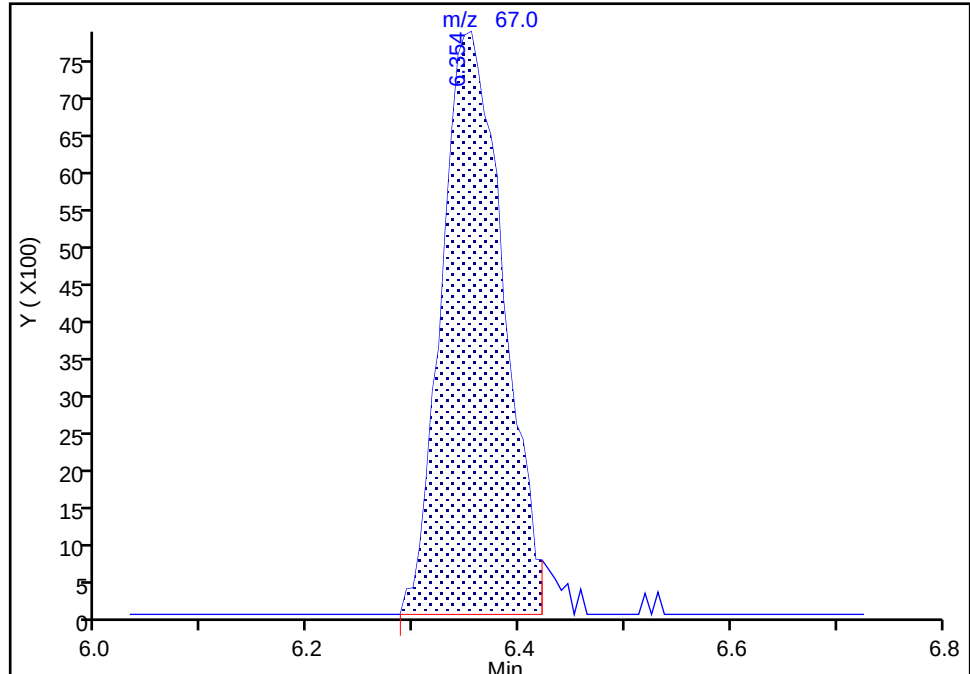
MS Quad

46 Methacrylonitrile, CAS: 126-98-7

Signal: 1

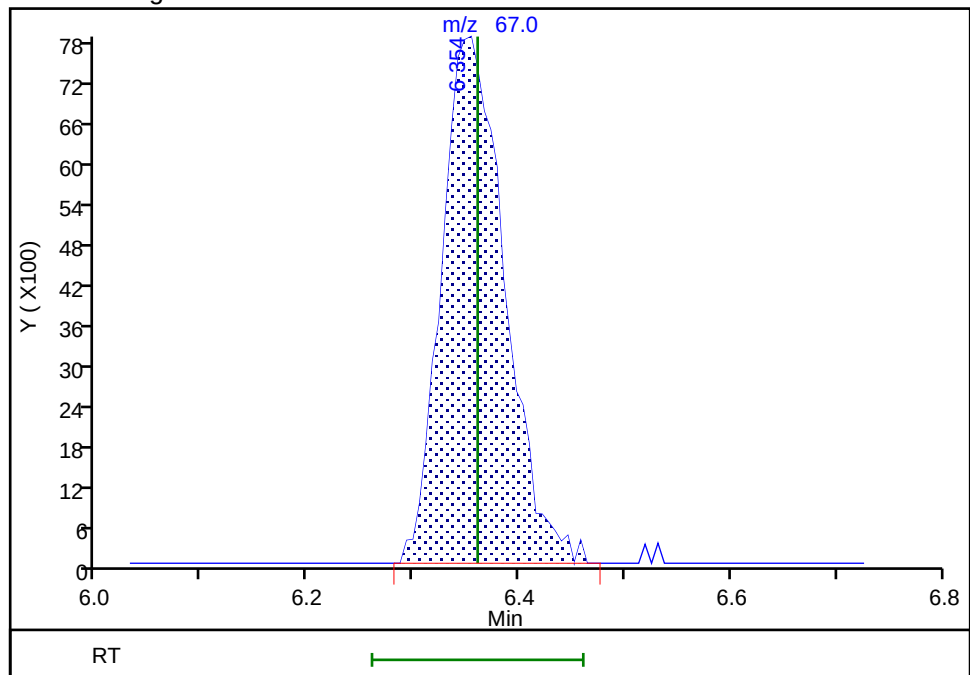
RT: 6.35
Area: 31788
Amount: 2.066779
Amount Units: ug/l

Processing Integration Results



RT: 6.35
Area: 32580
Amount: 2.110510
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:58:58

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Lims ID: IC std1

Client ID:

Operator ID: DVV10203

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

MS Quad

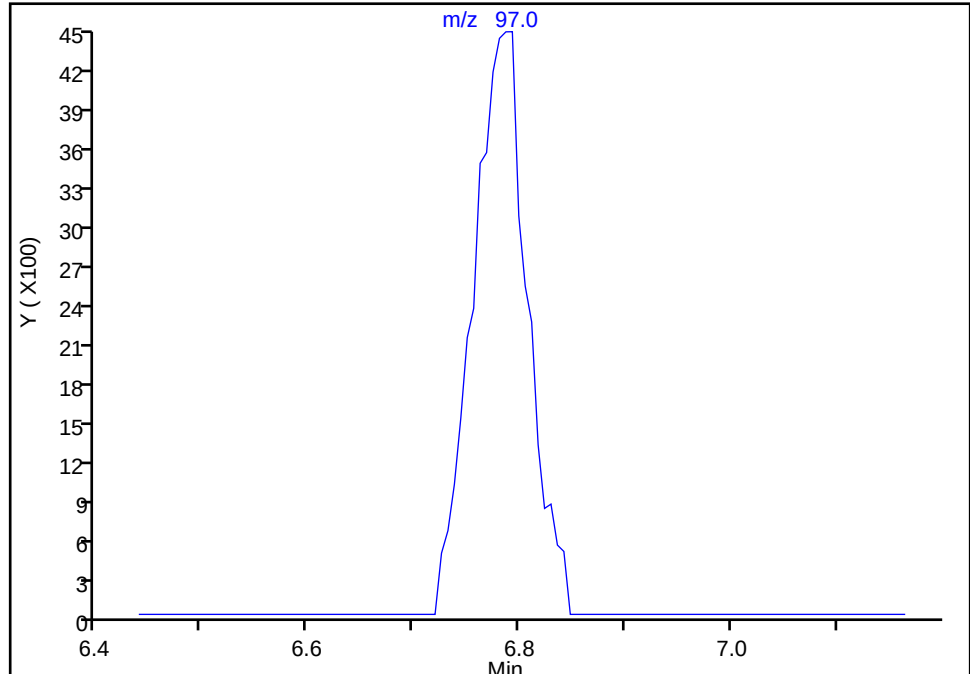
51 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

Not Detected

Expected RT: 6.79

Processing Integration Results



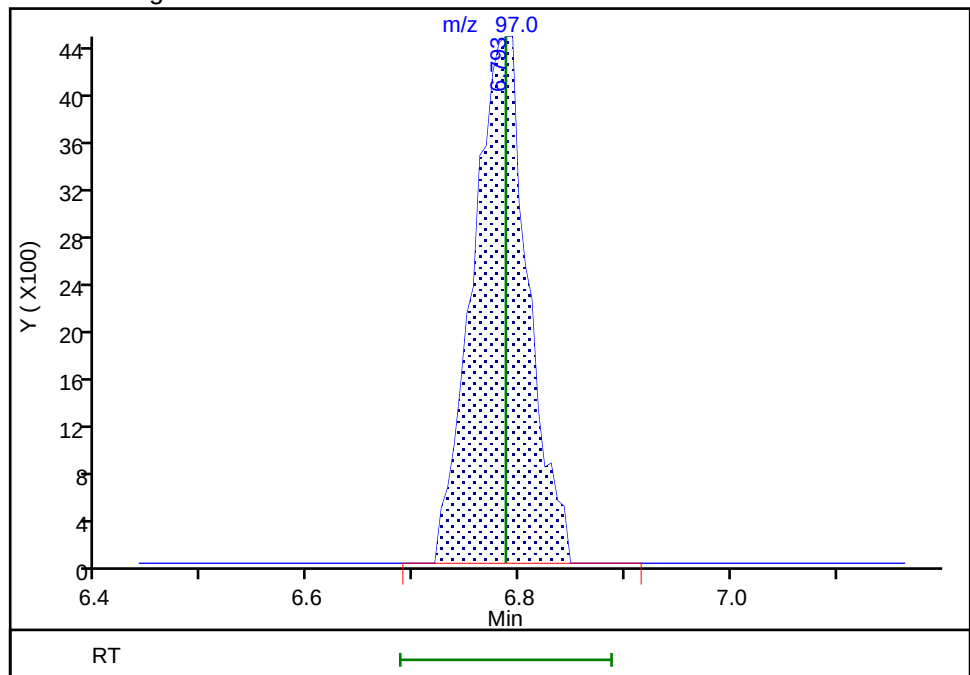
RT: 6.79

Area: 16224

Amount: 0.200484

Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:59:05

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Lims ID: IC std1

Client ID:

Operator ID: DVV10203

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

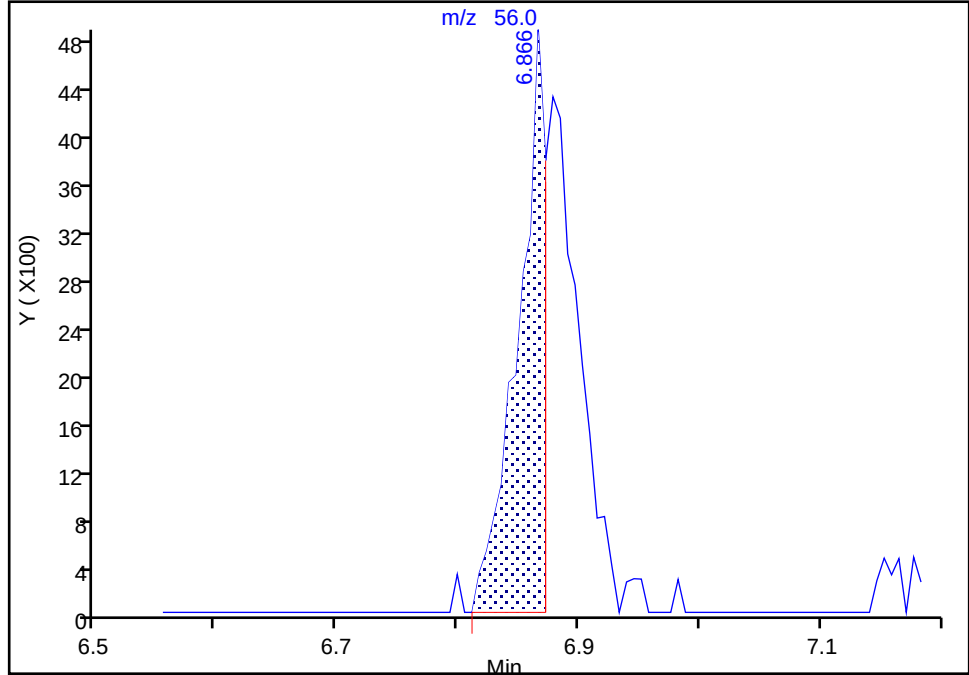
MS Quad

53 Cyclohexane, CAS: 110-82-7

Signal: 1

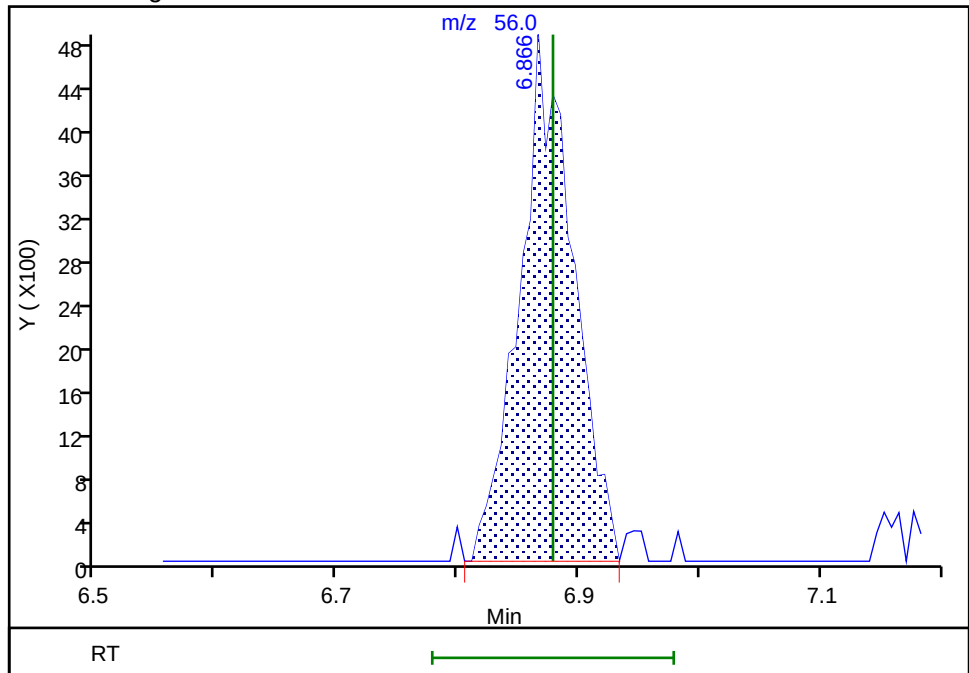
RT: 6.87
Area: 7828
Amount: 0.140707
Amount Units: ug/l

Processing Integration Results



RT: 6.87
Area: 15080
Amount: 0.162145
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:59:11

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Lims ID: IC std1

Client ID:

Operator ID: DVV10203

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

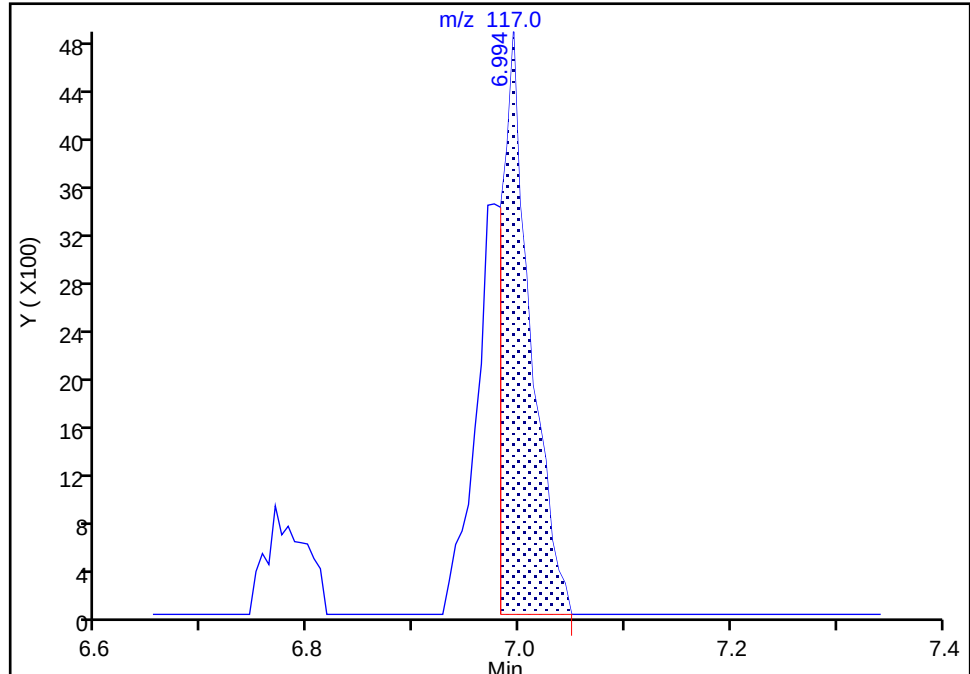
MS Quad

56 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

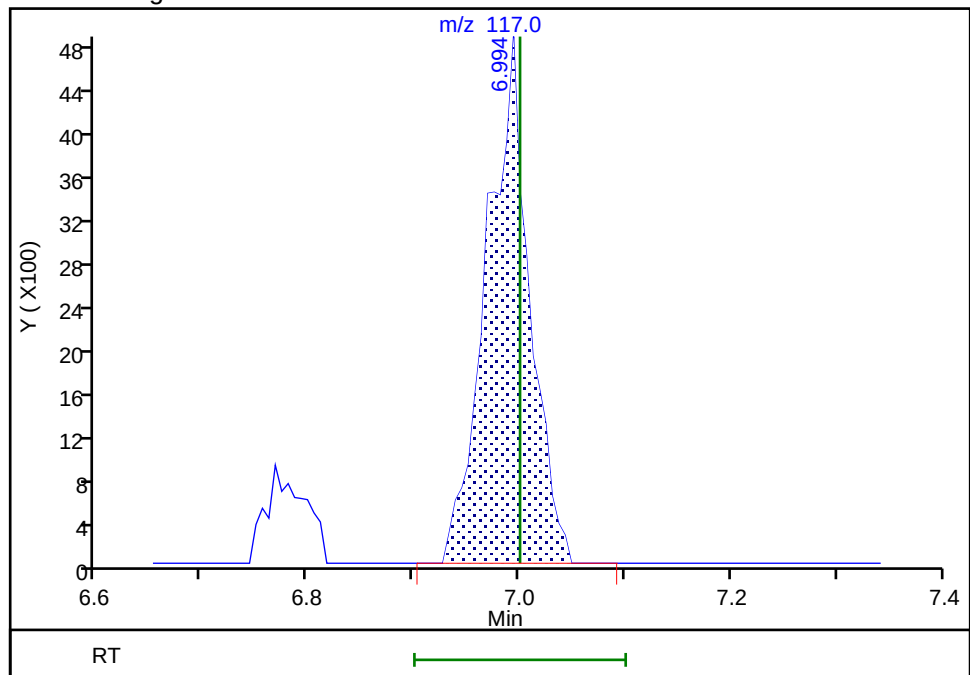
RT: 6.99
Area: 9013
Amount: 0.134991
Amount Units: ug/l

Processing Integration Results



RT: 6.99
Area: 13772
Amount: 0.196276
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:59:15

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Lims ID: IC std1

Client ID:

Operator ID: DVV10203

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

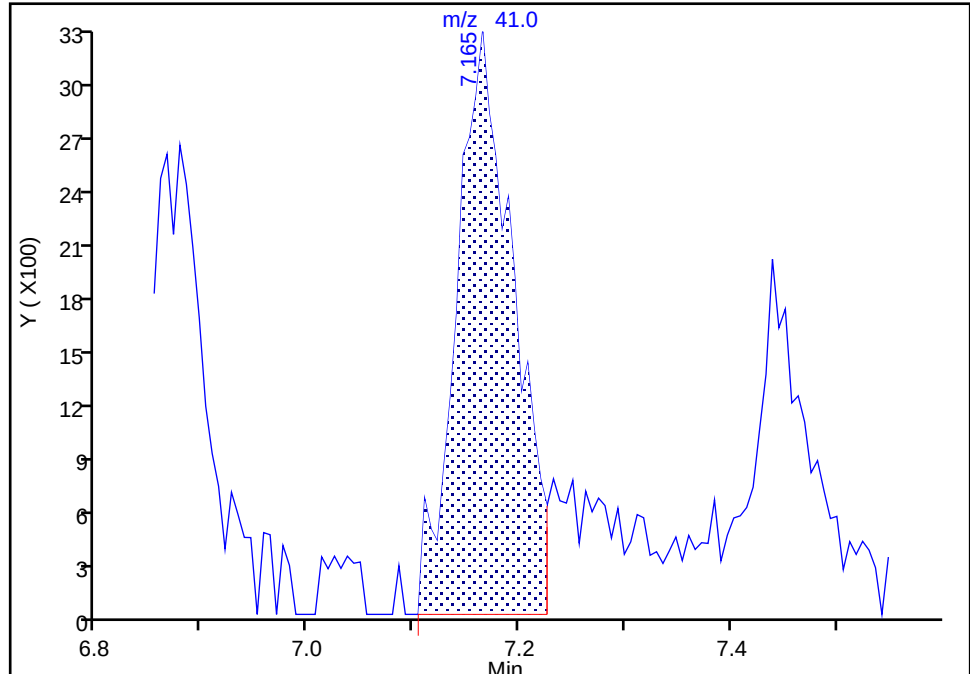
MS Quad

57 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

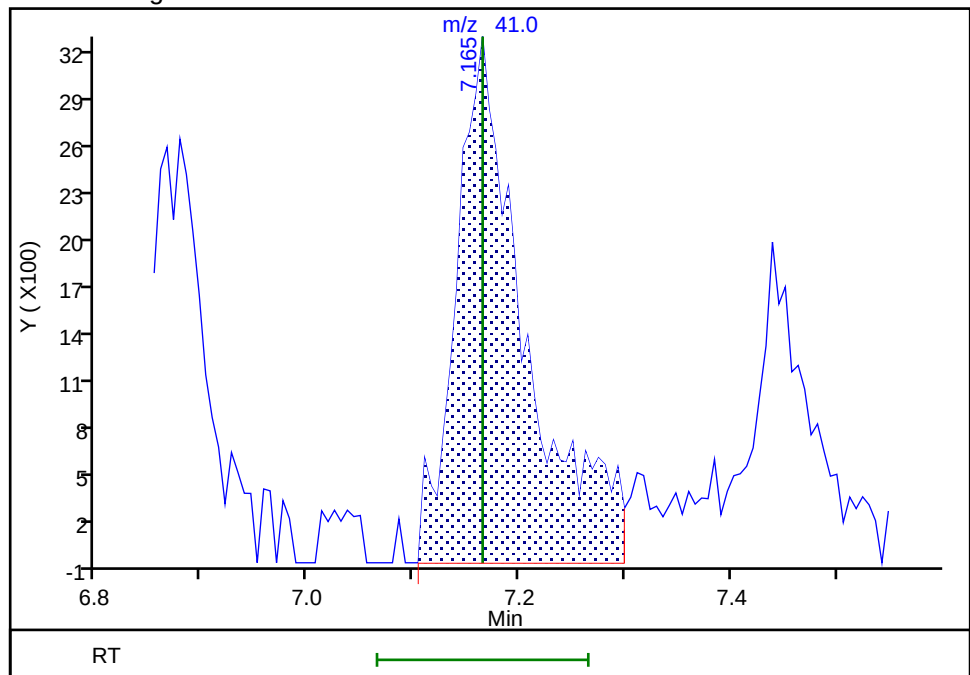
RT: 7.16
Area: 12358
Amount: 10.222385
Amount Units: ug/l

Processing Integration Results



RT: 7.16
Area: 14998
Amount: 12.030837
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:59:26

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date: 30-Nov-2020 15:03:30

Instrument ID: 16334

Lims ID: IC std1

Client ID:

Operator ID: DVV10203

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

MS Quad

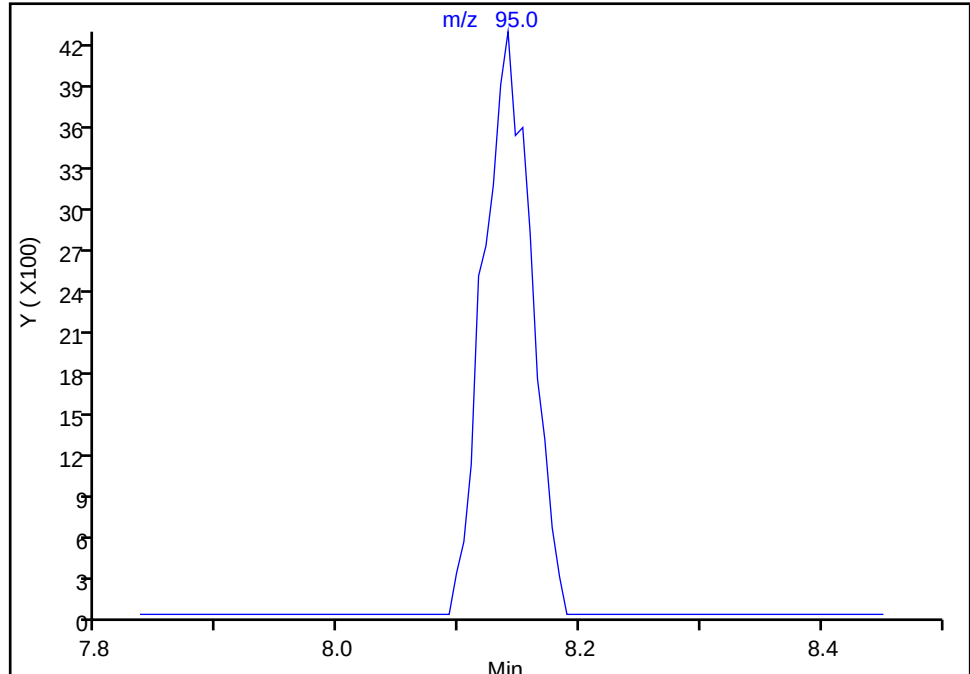
67 Trichloroethene, CAS: 79-01-6

Signal: 1

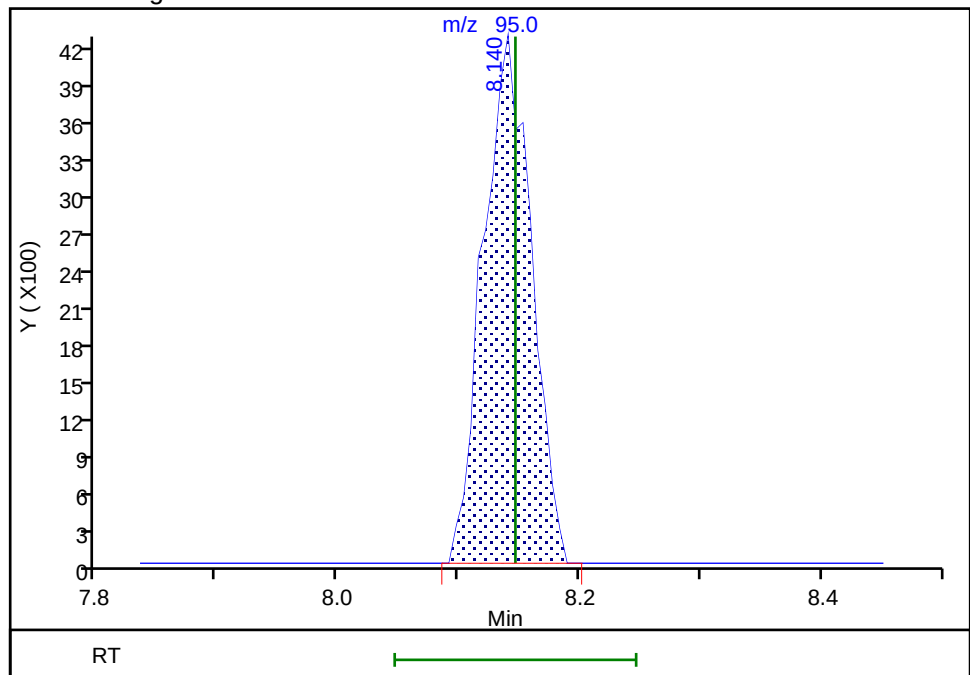
Not Detected

Expected RT: 8.15

Processing Integration Results



Manual Integration Results



RT: 8.14

Area: 11723

Amount: 0.204849

Amount Units: ug/l

Reviewer: virayd, 01-Dec-2020 11:59:36

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

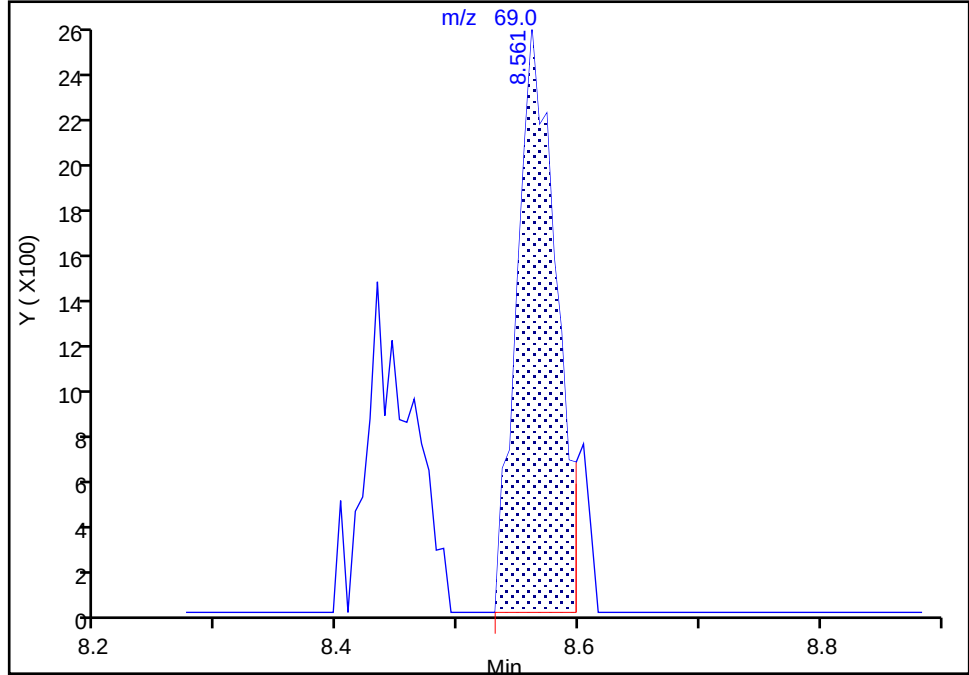
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D
Injection Date: 30-Nov-2020 15:03:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: DVV10203 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

71 Methyl methacrylate, CAS: 80-62-6

Signal: 1

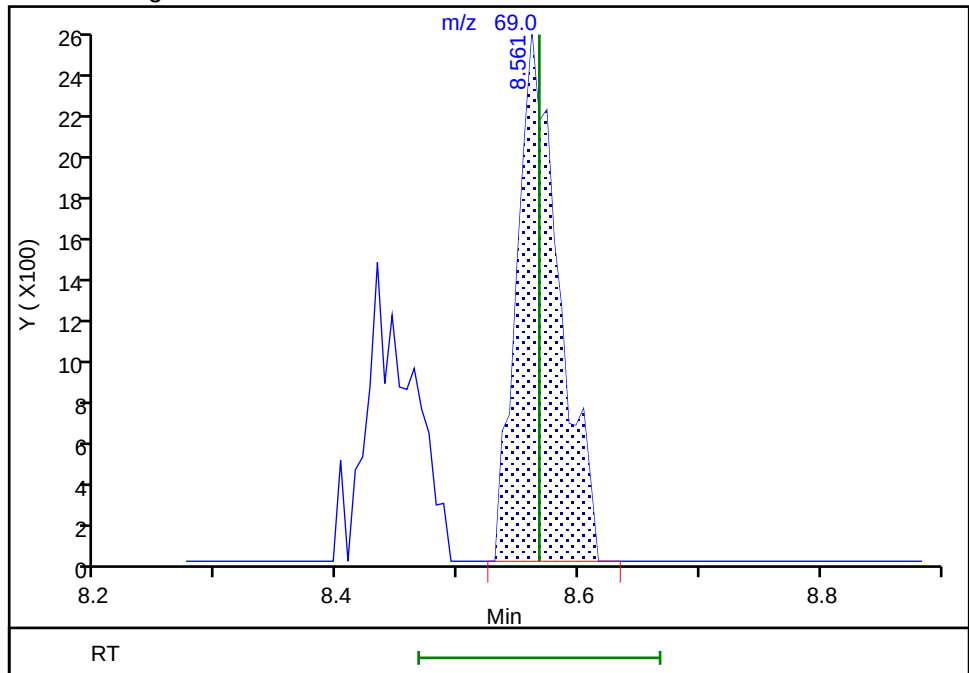
RT: 8.56
Area: 5837
Amount: 0.187386
Amount Units: ug/l

Processing Integration Results



RT: 8.56
Area: 6248
Amount: 0.198708
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:59:42
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

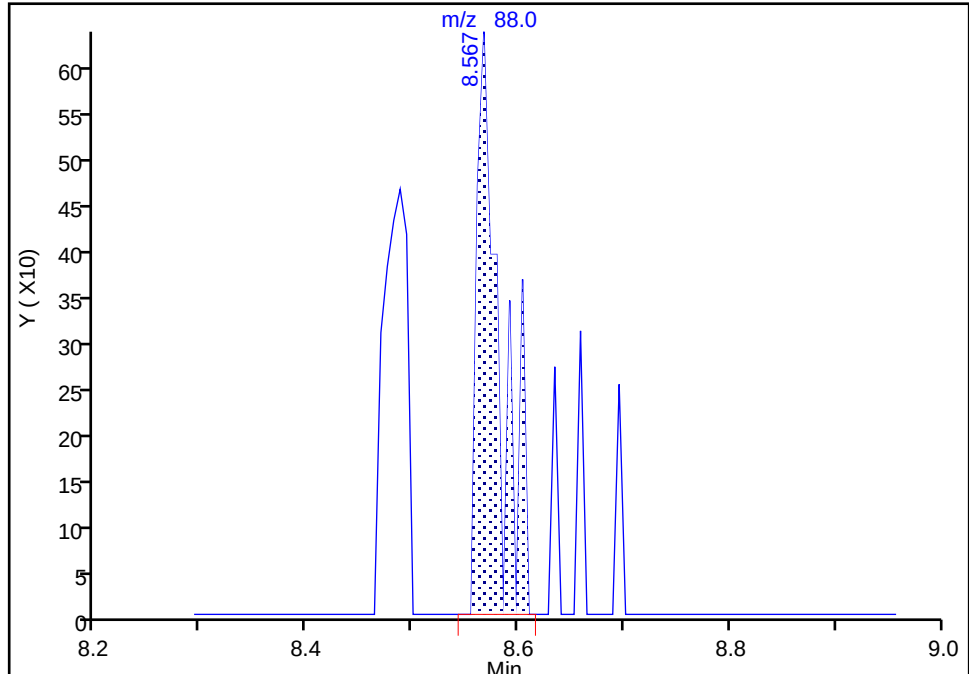
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D
Injection Date: 30-Nov-2020 15:03:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: DVV10203 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

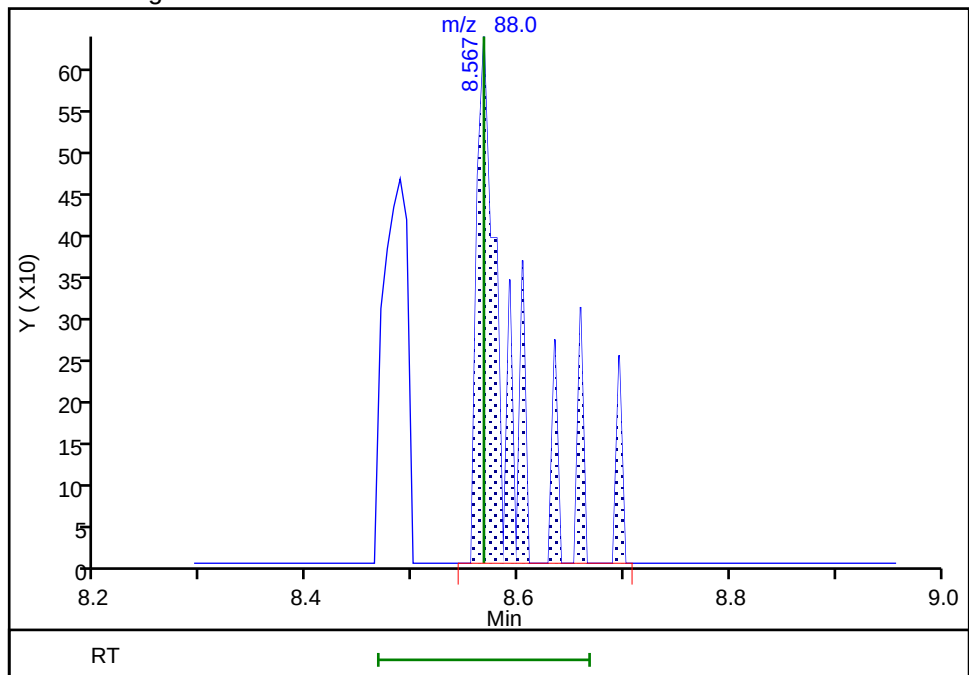
RT: 8.57
Area: 946
Amount: 4.546939
Amount Units: ug/l

Processing Integration Results



RT: 8.57
Area: 1248
Amount: 5.876637
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:59:46
Audit Action: Manually Integrated

Audit Reason: Other

Calibration

/ Dichlorodifluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

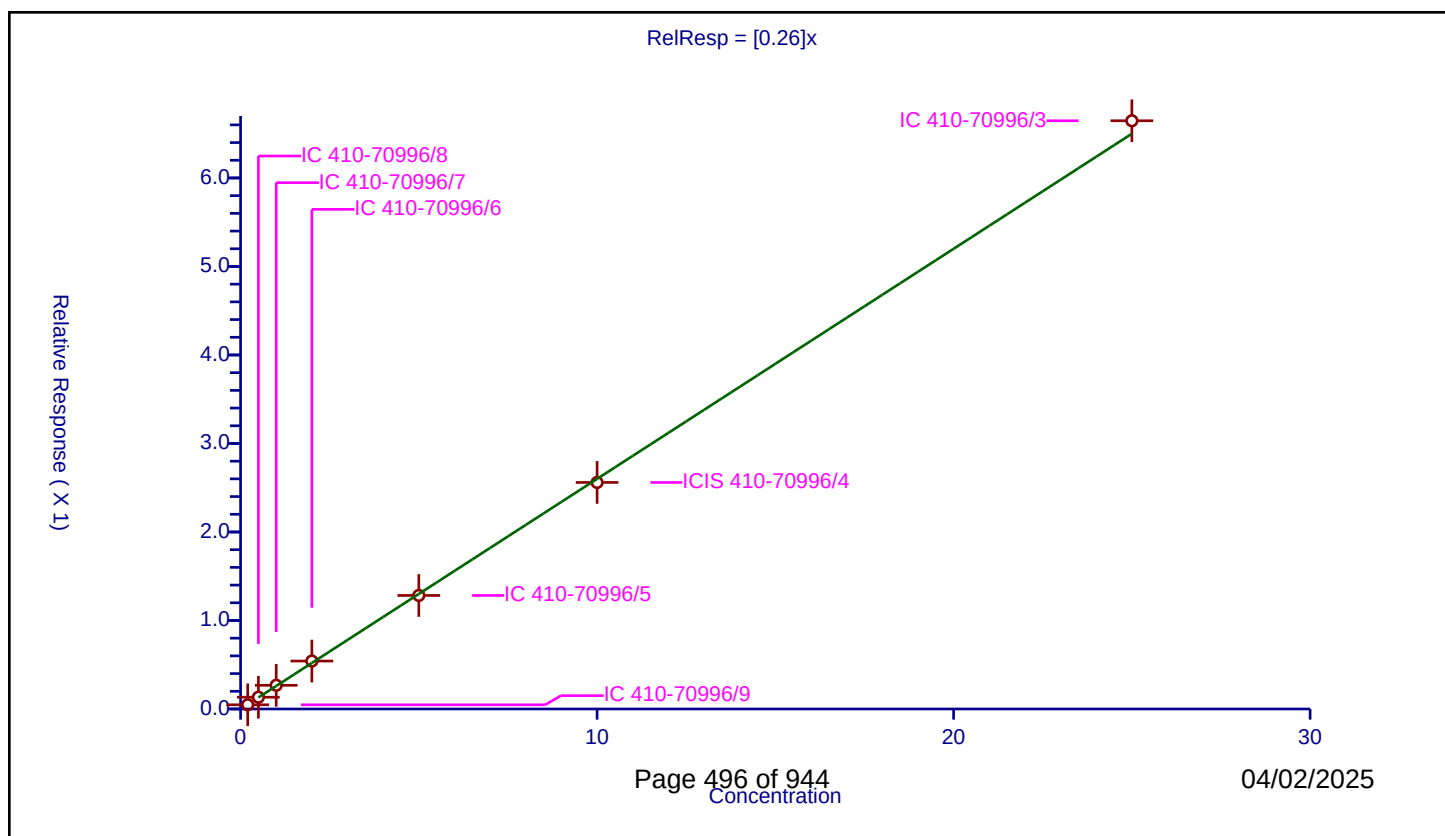
Curve Coefficients

Intercept: 0
Slope: 0.26

Error Coefficients

Standard Error: 667000
Relative Standard Error: 4.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.047352	10.0	2204755.0	0.236761	Y
2	IC 410-70996/8	0.5	0.133089	10.0	2189287.0	0.266178	Y
3	IC 410-70996/7	1.0	0.267761	10.0	2211412.0	0.267761	Y
4	IC 410-70996/6	2.0	0.541666	10.0	2210035.0	0.270833	Y
5	IC 410-70996/5	5.0	1.282832	10.0	2225560.0	0.256566	Y
6	ICIS 410-70996/4	10.0	2.559618	10.0	2246480.0	0.255962	Y
7	IC 410-70996/3	25.0	6.646281	10.0	2249974.0	0.265851	Y



Calibration

/ Chloromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

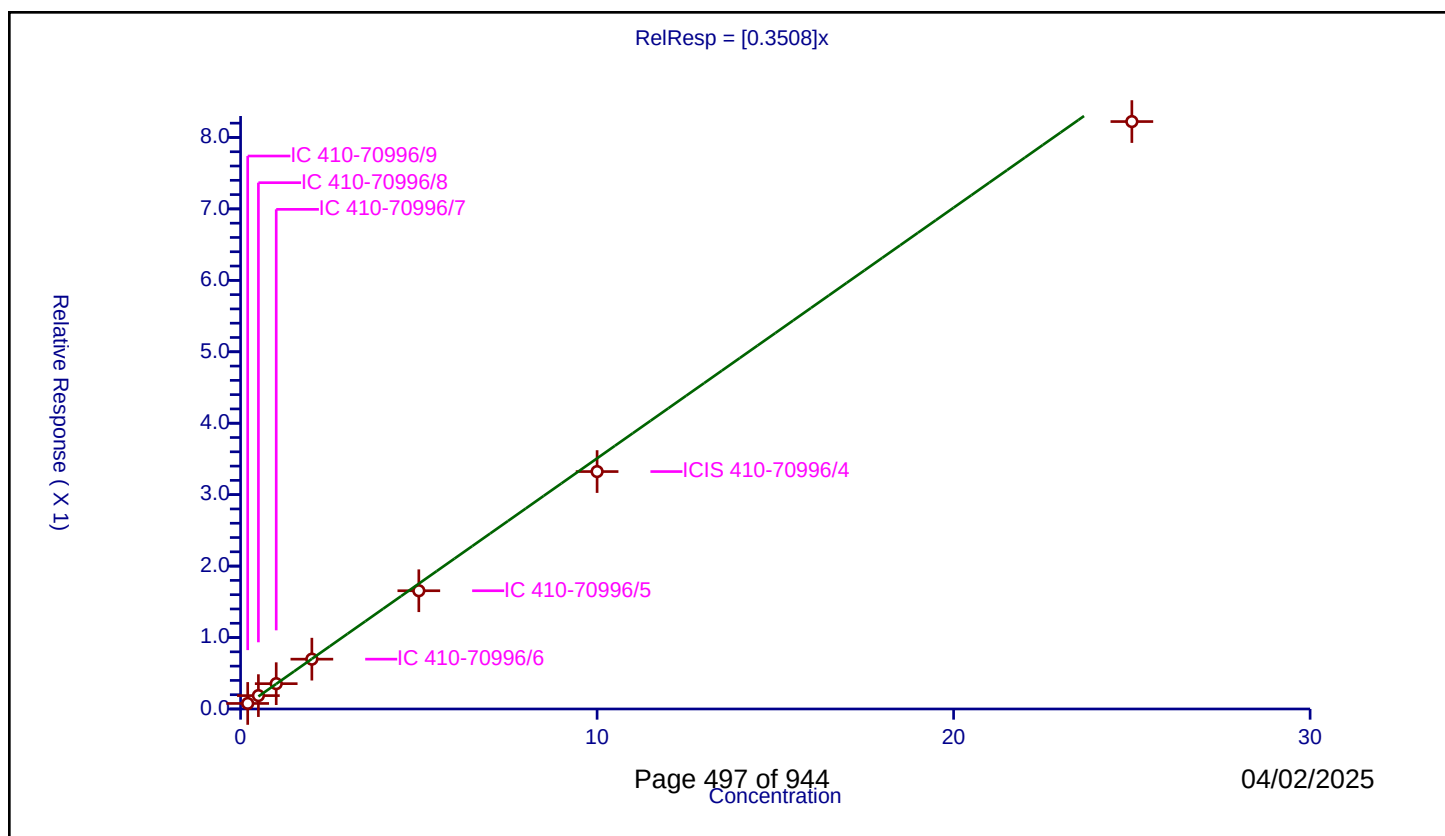
Curve Coefficients

Intercept: 0
 Slope: 0.3508

Error Coefficients

Standard Error: 831000
 Relative Standard Error: 6.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.077292	10.0	2204755.0	0.38646	Y
2	IC 410-70996/8	0.5	0.187015	10.0	2189287.0	0.37403	Y
3	IC 410-70996/7	1.0	0.354294	10.0	2211412.0	0.354294	Y
4	IC 410-70996/6	2.0	0.697541	10.0	2210035.0	0.34877	Y
5	IC 410-70996/5	5.0	1.655156	10.0	2225560.0	0.331031	Y
6	ICIS 410-70996/4	10.0	3.323453	10.0	2246480.0	0.332345	Y
7	IC 410-70996/3	25.0	8.222206	10.0	2249974.0	0.328888	Y



Calibration

/ Butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

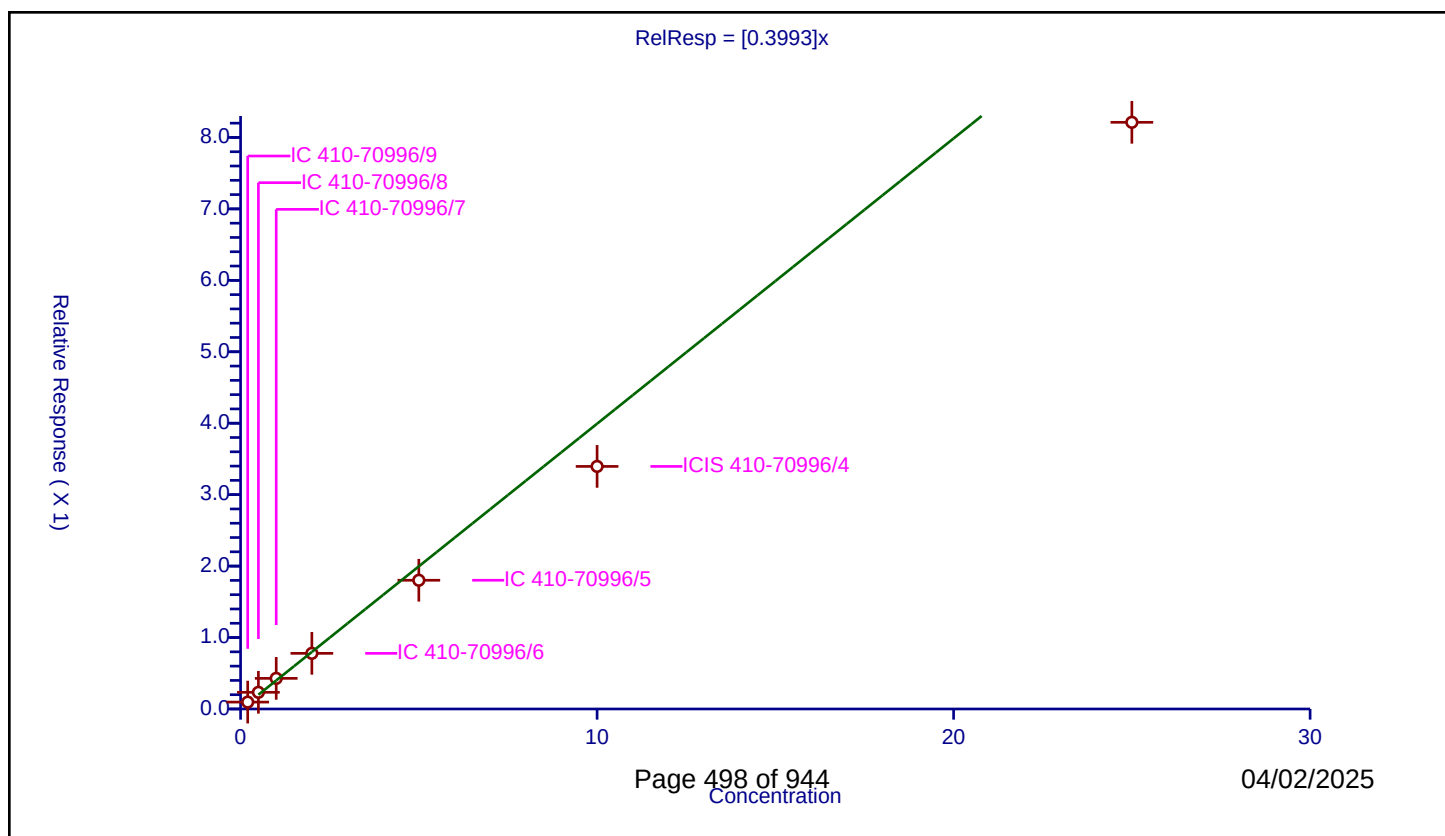
Curve Coefficients

Intercept: 0
Slope: 0.3993

Error Coefficients

Standard Error: 836000
Relative Standard Error: 15.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.962

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.096351	10.0	2204755.0	0.481754	Y
2	IC 410-70996/8	0.5	0.233396	10.0	2189287.0	0.466791	Y
3	IC 410-70996/7	1.0	0.428726	10.0	2211412.0	0.428726	Y
4	IC 410-70996/6	2.0	0.778888	10.0	2210035.0	0.389444	Y
5	IC 410-70996/5	5.0	1.801771	10.0	2225560.0	0.360354	Y
6	ICIS 410-70996/4	10.0	3.395481	10.0	2246480.0	0.339548	Y
7	IC 410-70996/3	25.0	8.211886	10.0	2249974.0	0.328475	Y



Calibration

/ Vinyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

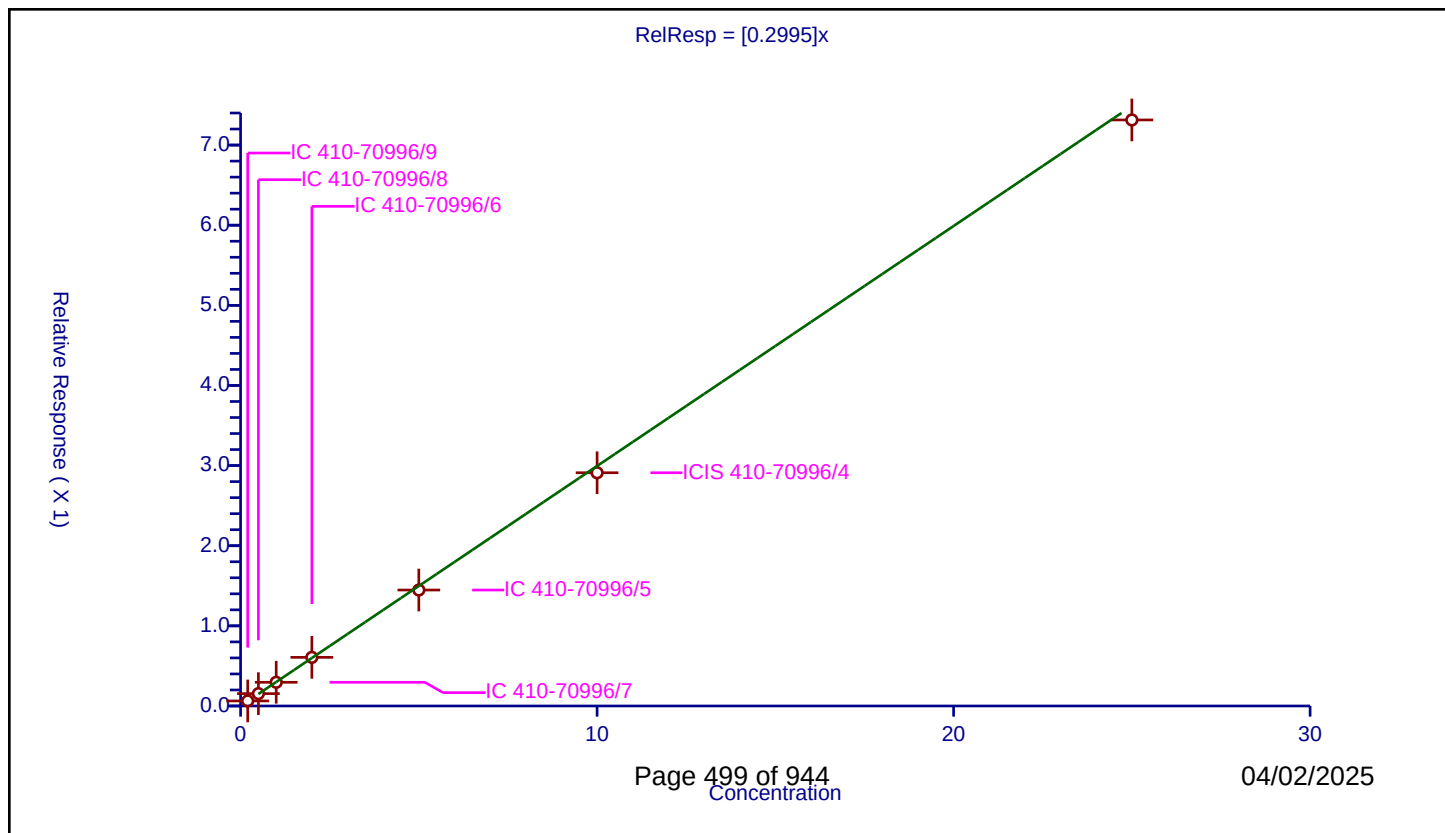
Curve Coefficients

Intercept: 0
Slope: 0.2995

Error Coefficients

Standard Error: 737000
Relative Standard Error: 3.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.063182	10.0	2204755.0	0.315908	Y
2	IC 410-70996/8	0.5	0.154196	10.0	2189287.0	0.308393	Y
3	IC 410-70996/7	1.0	0.295648	10.0	2211412.0	0.295648	Y
4	IC 410-70996/6	2.0	0.606927	10.0	2210035.0	0.303464	Y
5	IC 410-70996/5	5.0	1.447137	10.0	2225560.0	0.289427	Y
6	ICIS 410-70996/4	10.0	2.910727	10.0	2246480.0	0.291073	Y
7	IC 410-70996/3	25.0	7.313565	10.0	2249974.0	0.292543	Y



Calibration

/ Bromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

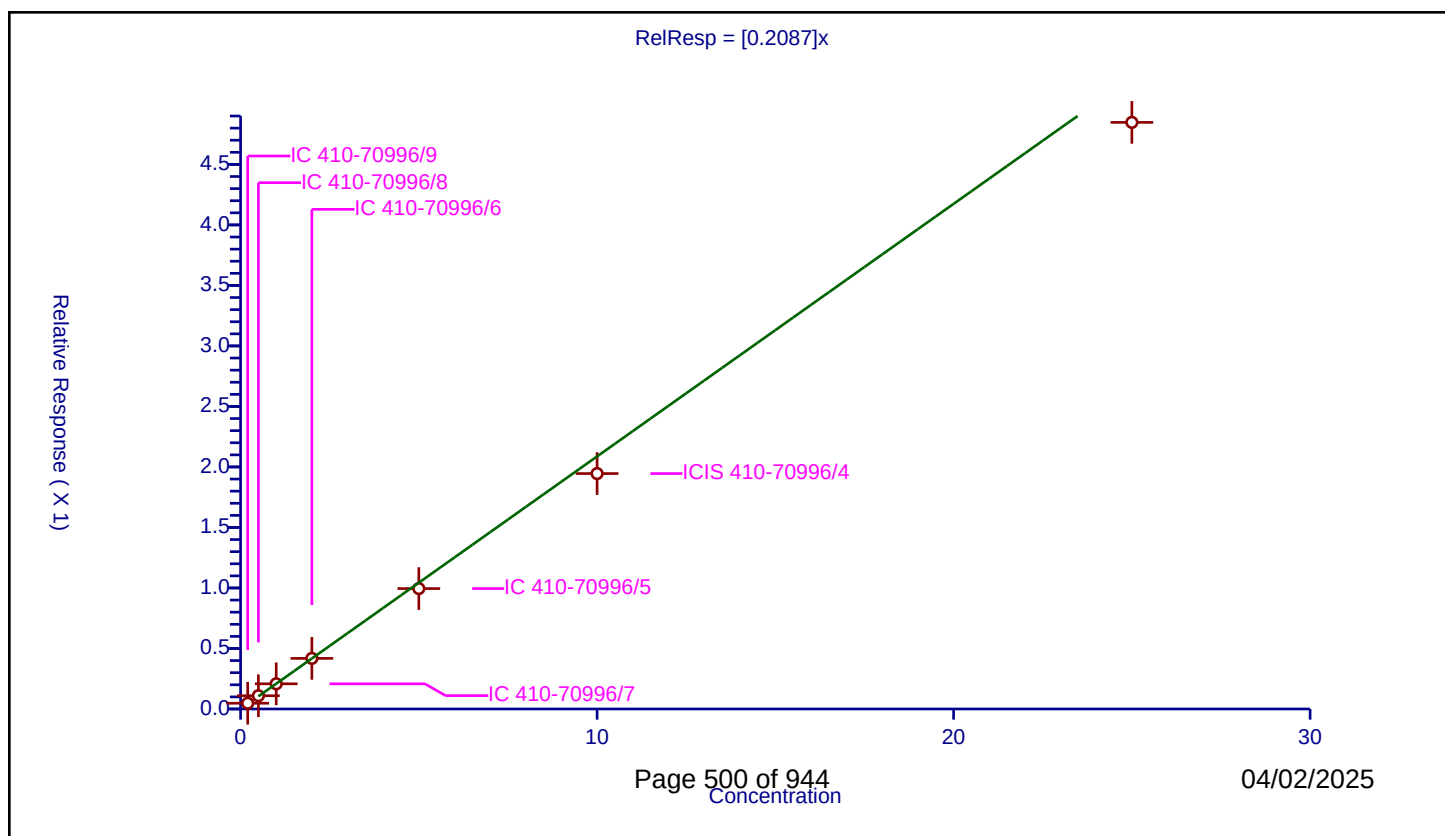
Curve Coefficients

Intercept: 0
 Slope: 0.2087

Error Coefficients

Standard Error: 490000
 Relative Standard Error: 7.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.04752	10.0	2204755.0	0.2376	Y
2	IC 410-70996/8	0.5	0.109405	10.0	2189287.0	0.218811	Y
3	IC 410-70996/7	1.0	0.208039	10.0	2211412.0	0.208039	Y
4	IC 410-70996/6	2.0	0.418152	10.0	2210035.0	0.209076	Y
5	IC 410-70996/5	5.0	0.995021	10.0	2225560.0	0.199004	Y
6	ICIS 410-70996/4	10.0	1.945355	10.0	2246480.0	0.194535	Y
7	IC 410-70996/3	25.0	4.847372	10.0	2249974.0	0.193895	Y



Calibration

/ Chloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

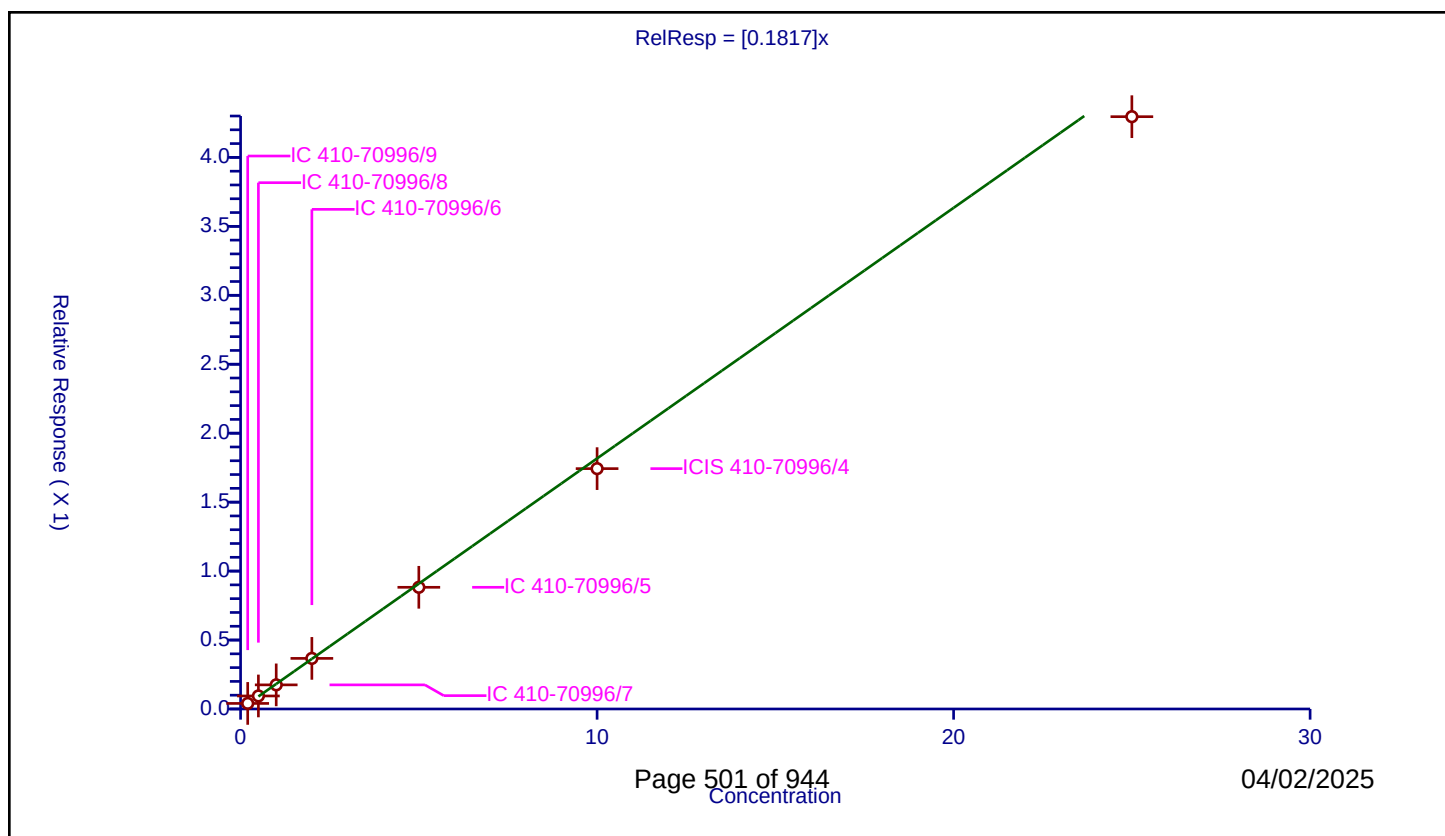
Curve Coefficients

Intercept: 0
Slope: 0.1817

Error Coefficients

Standard Error: 435000
Relative Standard Error: 5.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.040399	10.0	2204755.0	0.201995	Y
2	IC 410-70996/8	0.5	0.094423	10.0	2189287.0	0.188847	Y
3	IC 410-70996/7	1.0	0.174997	10.0	2211412.0	0.174997	Y
4	IC 410-70996/6	2.0	0.366958	10.0	2210035.0	0.183479	Y
5	IC 410-70996/5	5.0	0.882515	10.0	2225560.0	0.176503	Y
6	ICIS 410-70996/4	10.0	1.742989	10.0	2246480.0	0.174299	Y
7	IC 410-70996/3	25.0	4.29525	10.0	2249974.0	0.17181	Y



Calibration

/ Dichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

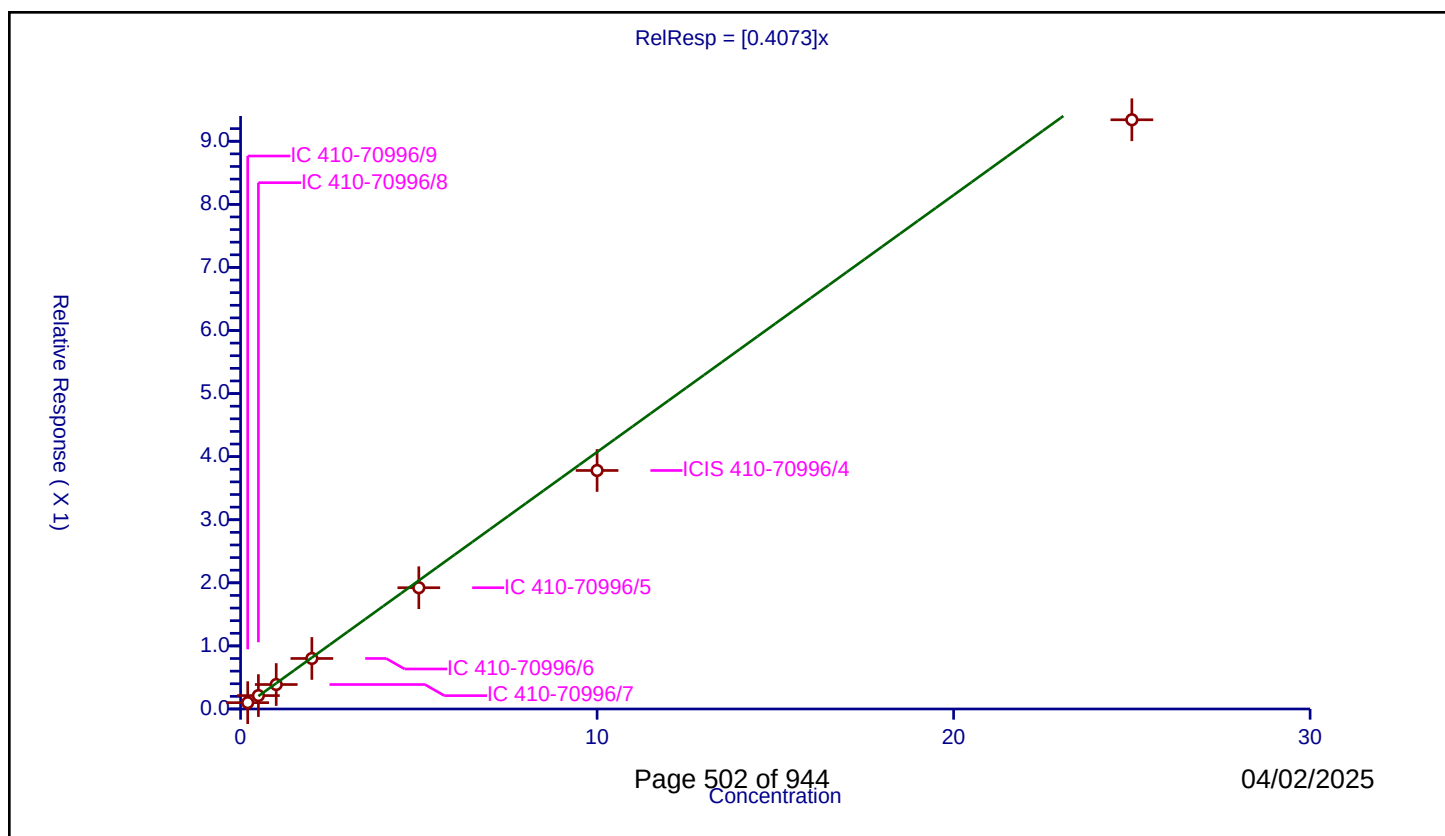
Curve Coefficients

Intercept: 0
Slope: 0.4073

Error Coefficients

Standard Error: 945000
Relative Standard Error: 11.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.100342	10.0	2204755.0	0.501711	Y
2	IC 410-70996/8	0.5	0.212512	10.0	2189287.0	0.425024	Y
3	IC 410-70996/7	1.0	0.387766	10.0	2211412.0	0.387766	Y
4	IC 410-70996/6	2.0	0.800992	10.0	2210035.0	0.400496	Y
5	IC 410-70996/5	5.0	1.922402	10.0	2225560.0	0.38448	Y
6	ICIS 410-70996/4	10.0	3.781062	10.0	2246480.0	0.378106	Y
7	IC 410-70996/3	25.0	9.340339	10.0	2249974.0	0.373614	Y



Calibration

/ Trichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

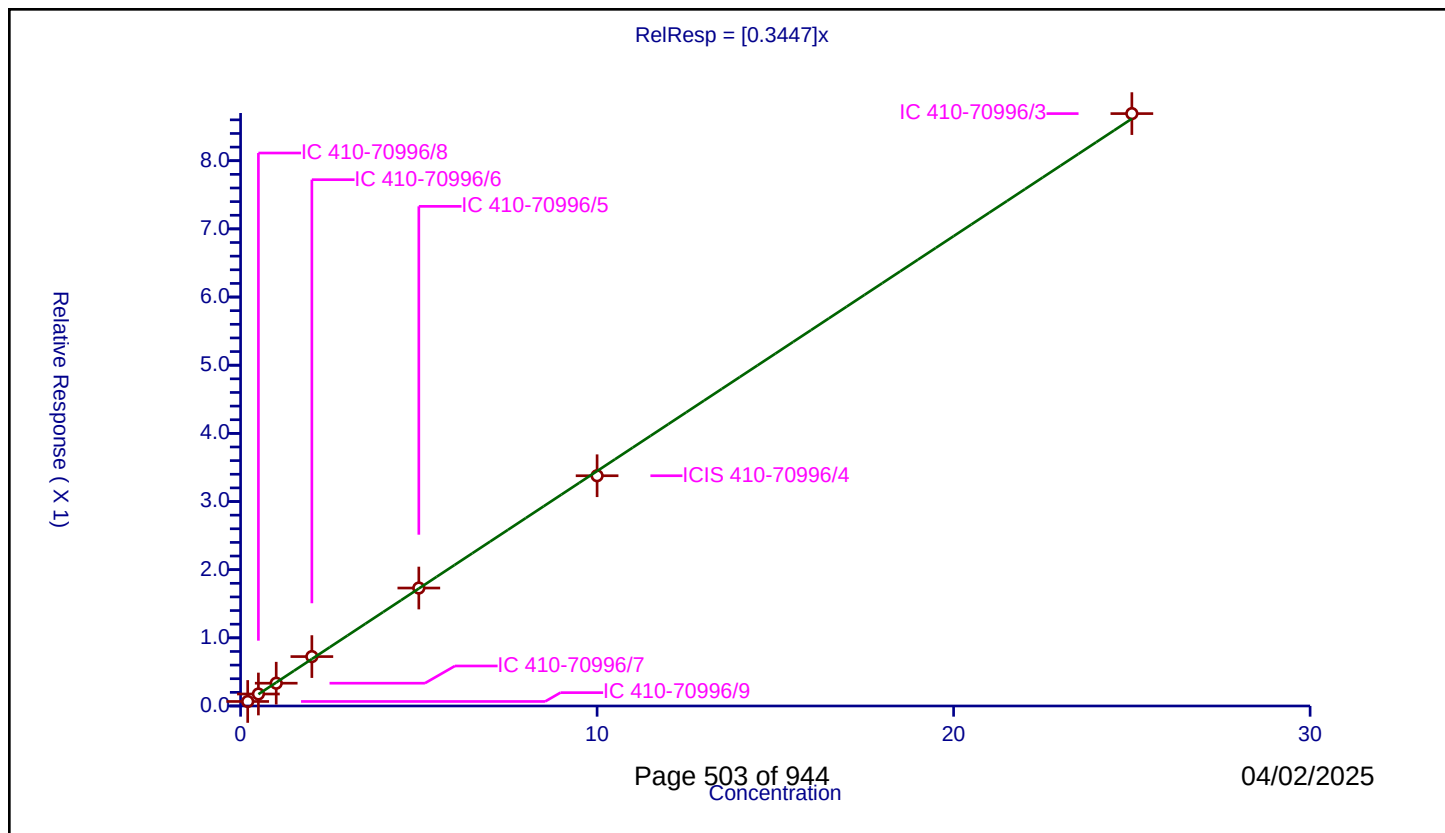
Curve Coefficients

Intercept: 0
Slope: 0.3447

Error Coefficients

Standard Error: 874000
Relative Standard Error: 3.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.066443	10.0	2204755.0	0.332214	Y
2	IC 410-70996/8	0.5	0.175993	10.0	2189287.0	0.351987	Y
3	IC 410-70996/7	1.0	0.334406	10.0	2211412.0	0.334406	Y
4	IC 410-70996/6	2.0	0.724798	10.0	2210035.0	0.362399	Y
5	IC 410-70996/5	5.0	1.7308	10.0	2225560.0	0.34616	Y
6	ICIS 410-70996/4	10.0	3.378227	10.0	2246480.0	0.337823	Y
7	IC 410-70996/3	25.0	8.691198	10.0	2249974.0	0.347648	Y



Calibration

/ Ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

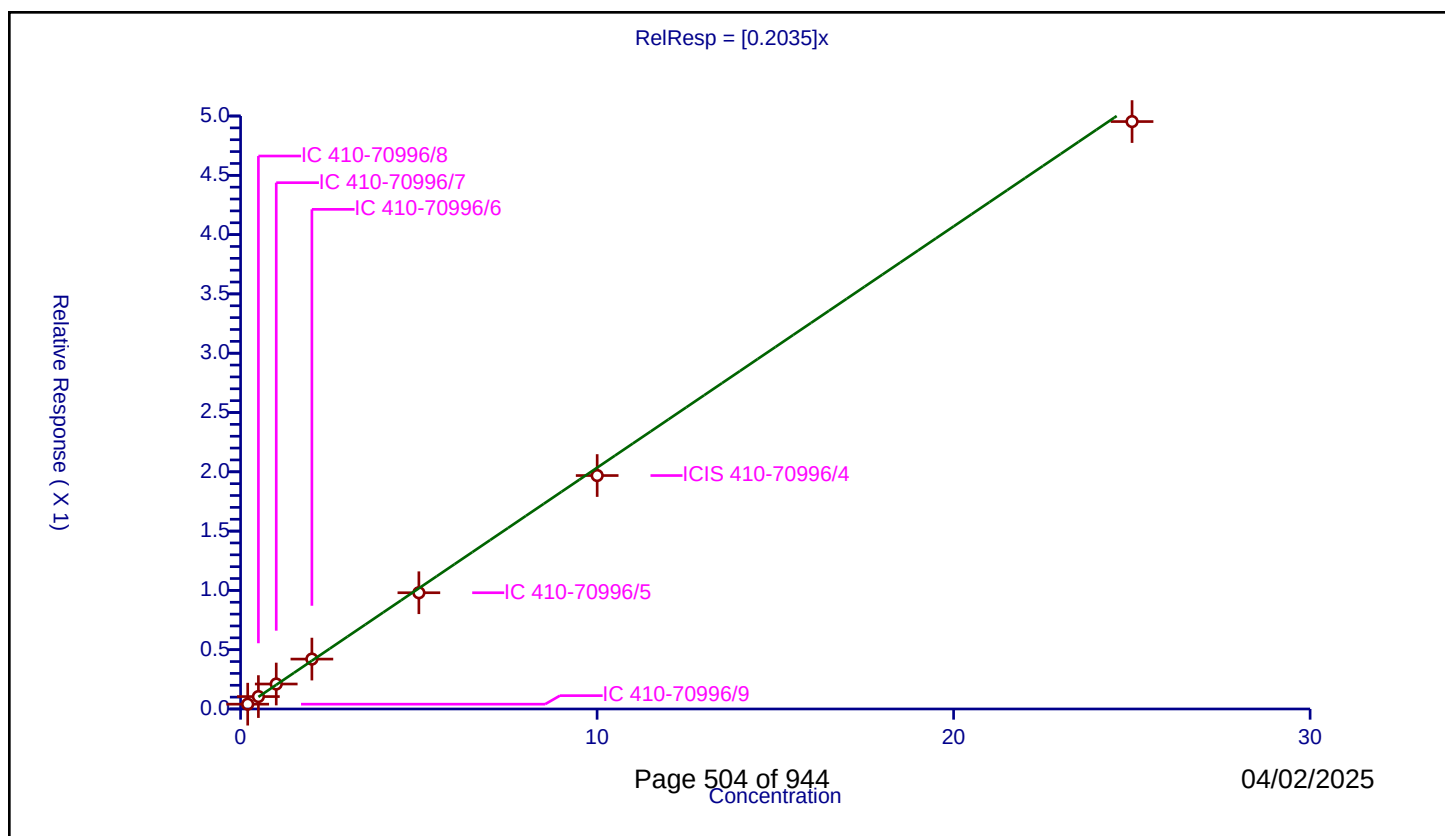
Curve Coefficients

Intercept: 0
Slope: 0.2035

Error Coefficients

Standard Error: 499000
Relative Standard Error: 3.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.200043	0.040594	10.0	2204755.0	0.202927	Y
2	IC 410-70996/8	0.500108	0.104742	10.0	2189287.0	0.209439	Y
3	IC 410-70996/7	1.000215	0.210594	10.0	2211412.0	0.210549	Y
4	IC 410-70996/6	2.00043	0.420903	10.0	2210035.0	0.210406	Y
5	IC 410-70996/5	5.001075	0.98027	10.0	2225560.0	0.196012	Y
6	ICIS 410-70996/4	10.00215	1.968457	10.0	2246480.0	0.196803	Y
7	IC 410-70996/3	25.005375	4.953173	10.0	2249974.0	0.198084	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

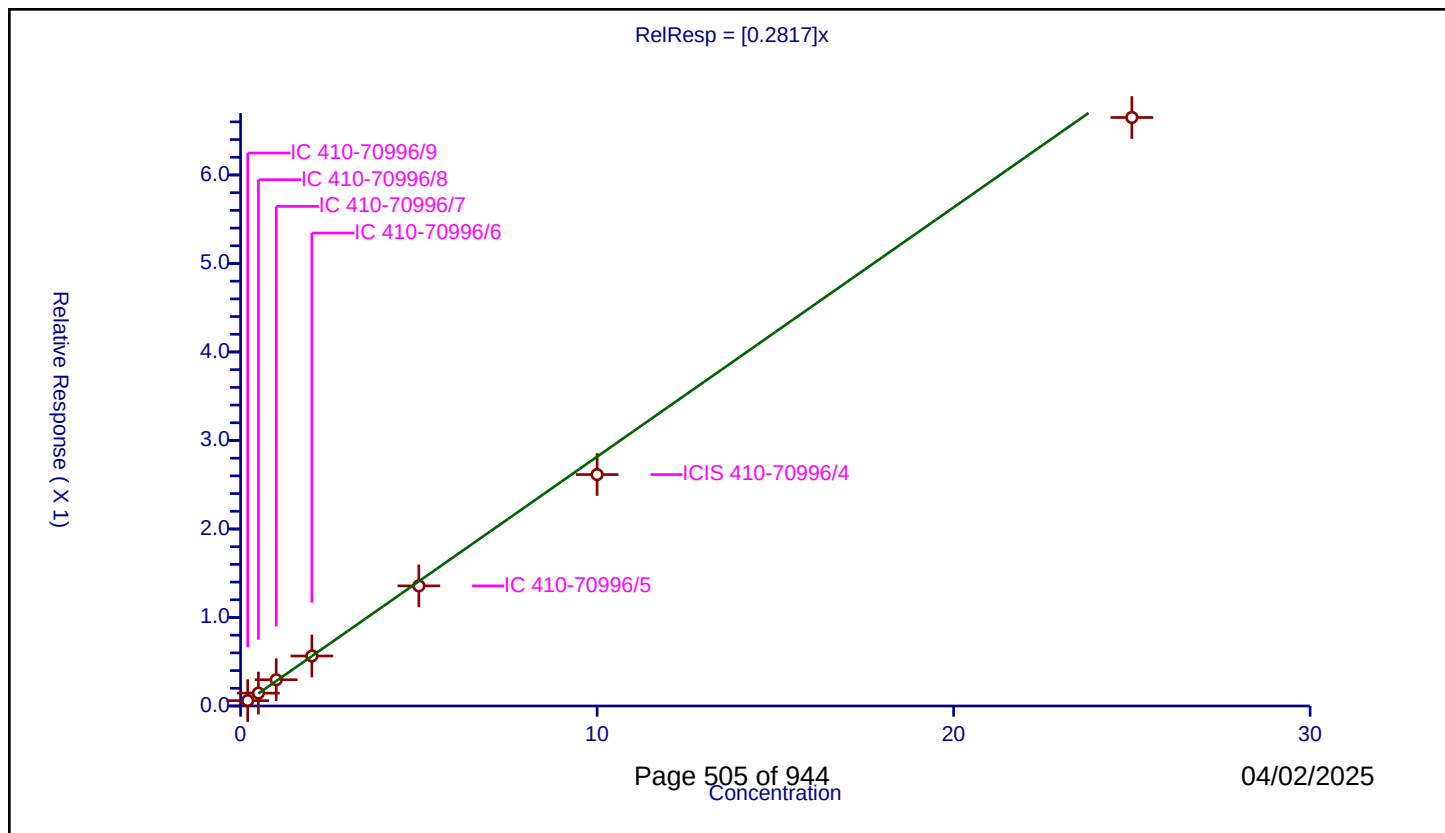
Curve Coefficients

Intercept: 0
 Slope: 0.2817

Error Coefficients

Standard Error: 670000
 Relative Standard Error: 5.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.060574	10.0	2204755.0	0.302868	Y
2	IC 410-70996/8	0.5	0.145499	10.0	2189287.0	0.290999	Y
3	IC 410-70996/7	1.0	0.296648	10.0	2211412.0	0.296648	Y
4	IC 410-70996/6	2.0	0.564756	10.0	2210035.0	0.282378	Y
5	IC 410-70996/5	5.0	1.357115	10.0	2225560.0	0.271423	Y
6	ICIS 410-70996/4	10.0	2.614788	10.0	2246480.0	0.261479	Y
7	IC 410-70996/3	25.0	6.649499	10.0	2249974.0	0.26598	Y



Calibration

/ Acrolein

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

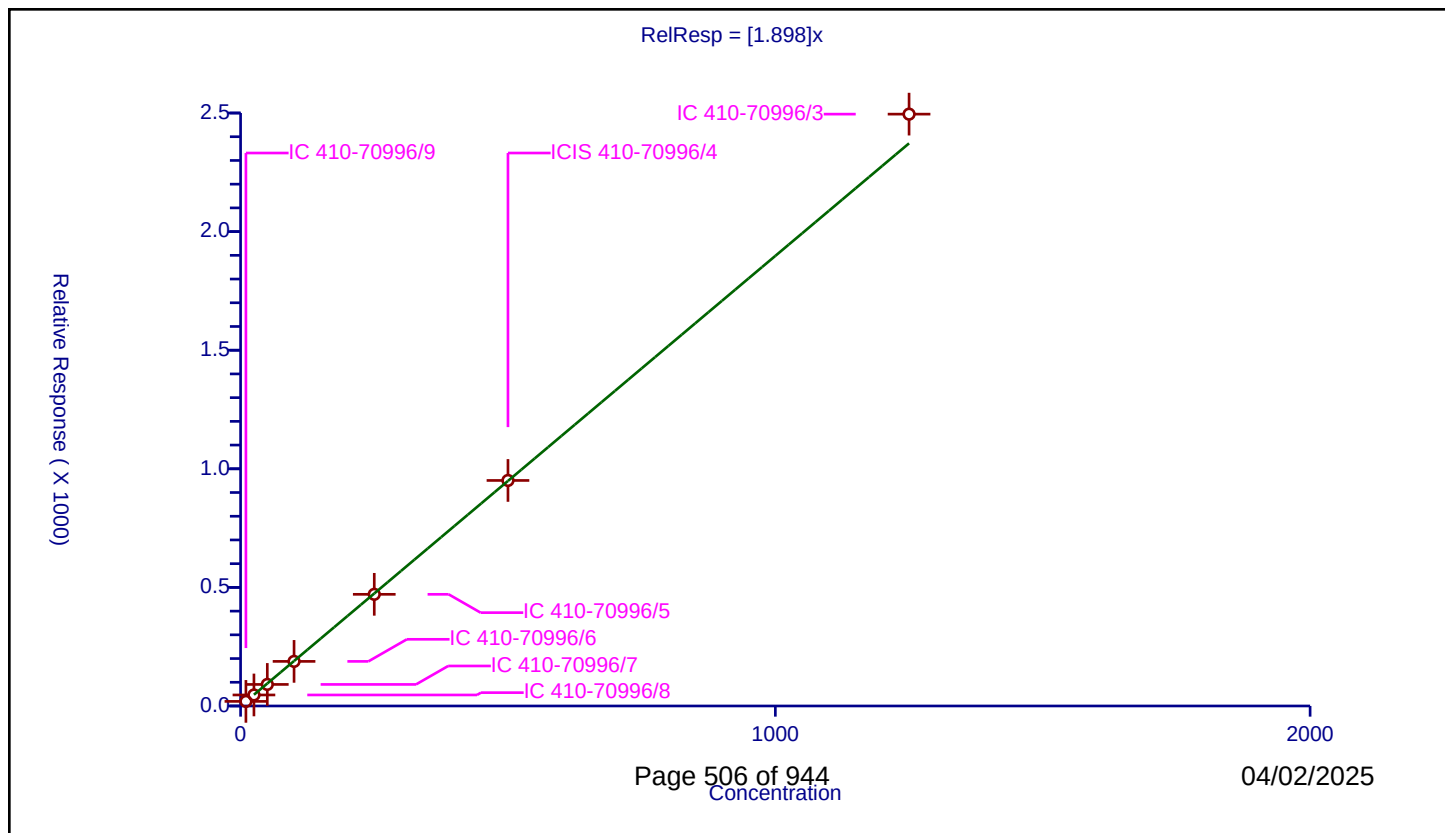
Curve Coefficients

Intercept: 0
Slope: 1.898

Error Coefficients

Standard Error: 3980000
Relative Standard Error: 3.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	10.000292	19.44882	50.0	184731.0	1.944825	Y
2	IC 410-70996/8	25.000729	46.526395	50.0	195834.0	1.861002	Y
3	IC 410-70996/7	50.001458	90.859368	50.0	201206.0	1.817134	Y
4	IC 410-70996/6	100.002917	187.990007	50.0	195329.0	1.879845	Y
5	IC 410-70996/5	250.007292	470.811266	50.0	183343.0	1.88319	Y
6	ICIS 410-70996/4	500.014585	950.905994	50.0	186094.0	1.901757	Y
7	IC 410-70996/3	1250.036462	2495.255991	50.0	177877.0	1.996147	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

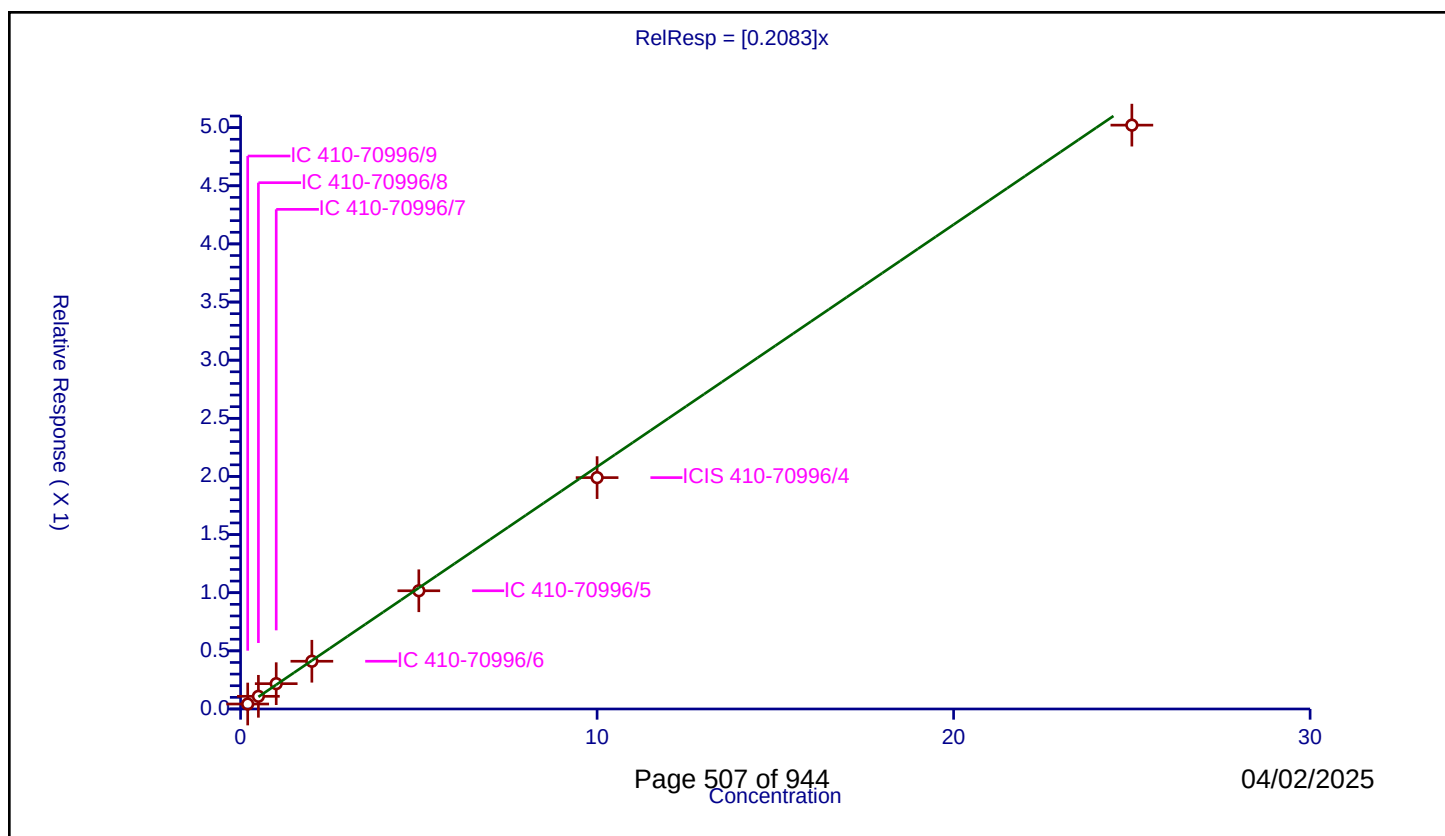
Curve Coefficients

Intercept: 0
 Slope: 0.2083

Error Coefficients

Standard Error: 506000
 Relative Standard Error: 3.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.042762	10.0	2204755.0	0.213811	Y
2	IC 410-70996/8	0.5	0.10899	10.0	2189287.0	0.21798	Y
3	IC 410-70996/7	1.0	0.217793	10.0	2211412.0	0.217793	Y
4	IC 410-70996/6	2.0	0.410546	10.0	2210035.0	0.205273	Y
5	IC 410-70996/5	5.0	1.016944	10.0	2225560.0	0.203389	Y
6	ICIS 410-70996/4	10.0	1.989984	10.0	2246480.0	0.198998	Y
7	IC 410-70996/3	25.0	5.021511	10.0	2249974.0	0.20086	Y



Calibration

/ Acetone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

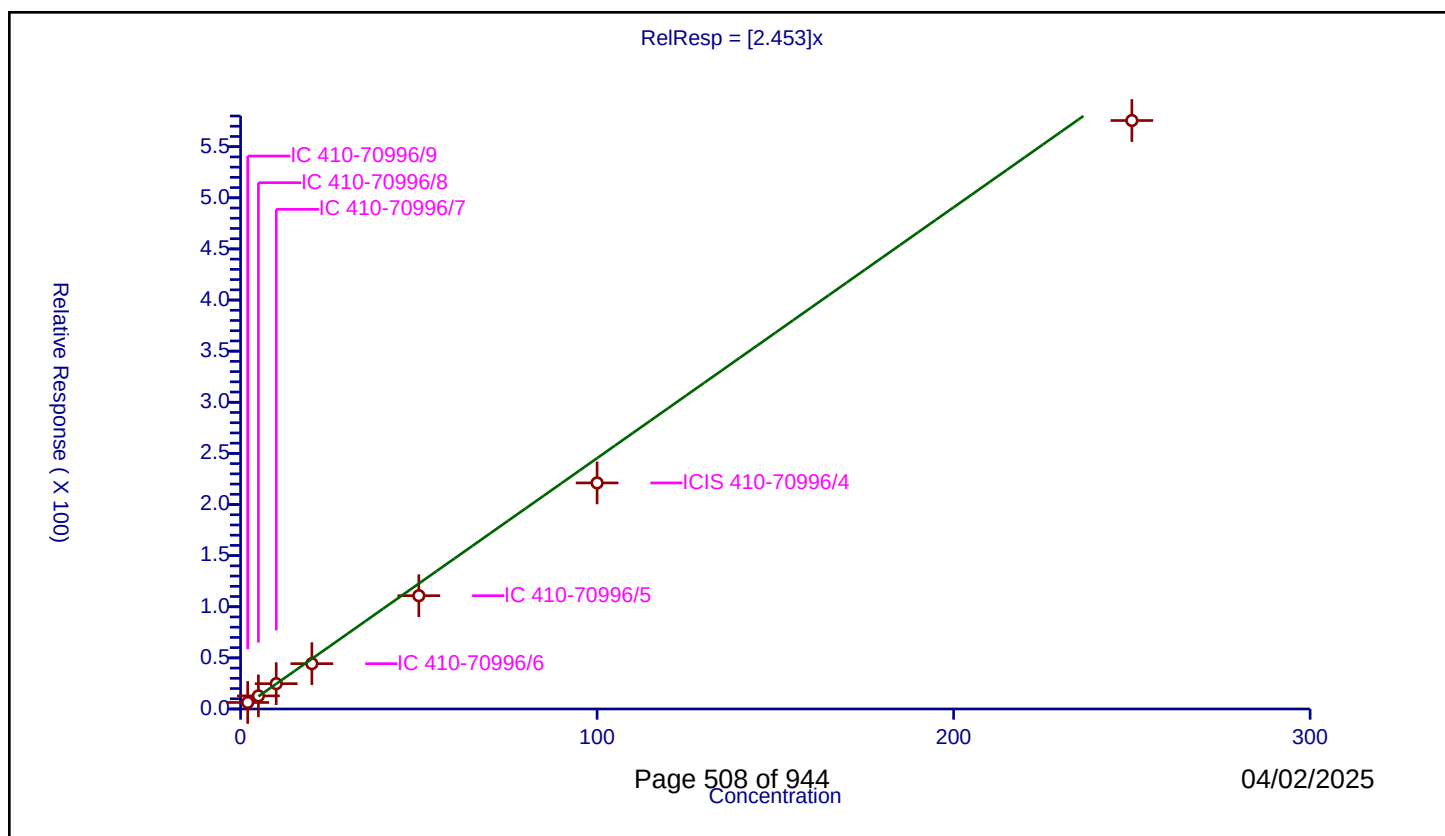
Curve Coefficients

Intercept: 0
Slope: 2.453

Error Coefficients

Standard Error: 920000
Relative Standard Error: 14.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	2.0	6.371697	50.0	184731.0	3.185849	Y
2	IC 410-70996/8	5.0	12.822595	50.0	195834.0	2.564519	Y
3	IC 410-70996/7	10.0	24.764172	50.0	201206.0	2.476417	Y
4	IC 410-70996/6	20.0	44.336478	50.0	195329.0	2.216824	Y
5	IC 410-70996/5	50.0	110.805703	50.0	183343.0	2.216114	Y
6	ICIS 410-70996/4	100.0	221.132062	50.0	186094.0	2.211321	Y
7	IC 410-70996/3	250.0	575.589593	50.0	177877.0	2.302358	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

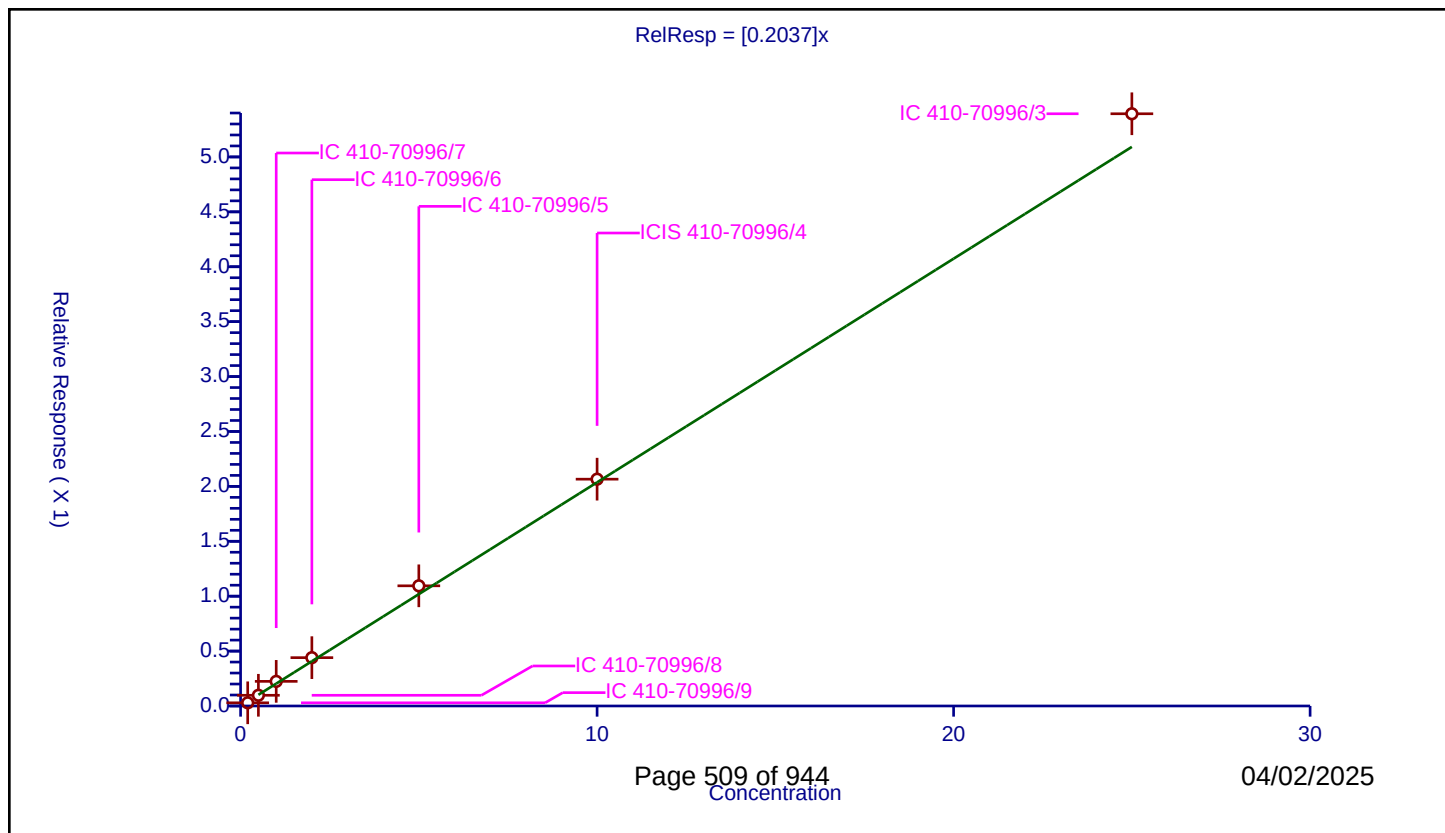
Curve Coefficients

Intercept: 0
Slope: 0.2037

Error Coefficients

Standard Error: 542000
Relative Standard Error: 13.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.02906	10.0	2204755.0	0.1453	Y
2	IC 410-70996/8	0.5	0.097397	10.0	2189287.0	0.194794	Y
3	IC 410-70996/7	1.0	0.224309	10.0	2211412.0	0.224309	Y
4	IC 410-70996/6	2.0	0.440237	10.0	2210035.0	0.220119	Y
5	IC 410-70996/5	5.0	1.094354	10.0	2225560.0	0.218871	Y
6	ICIS 410-70996/4	10.0	2.065565	10.0	2246480.0	0.206556	Y
7	IC 410-70996/3	25.0	5.393209	10.0	2249974.0	0.215728	Y



Calibration

/ Iodomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

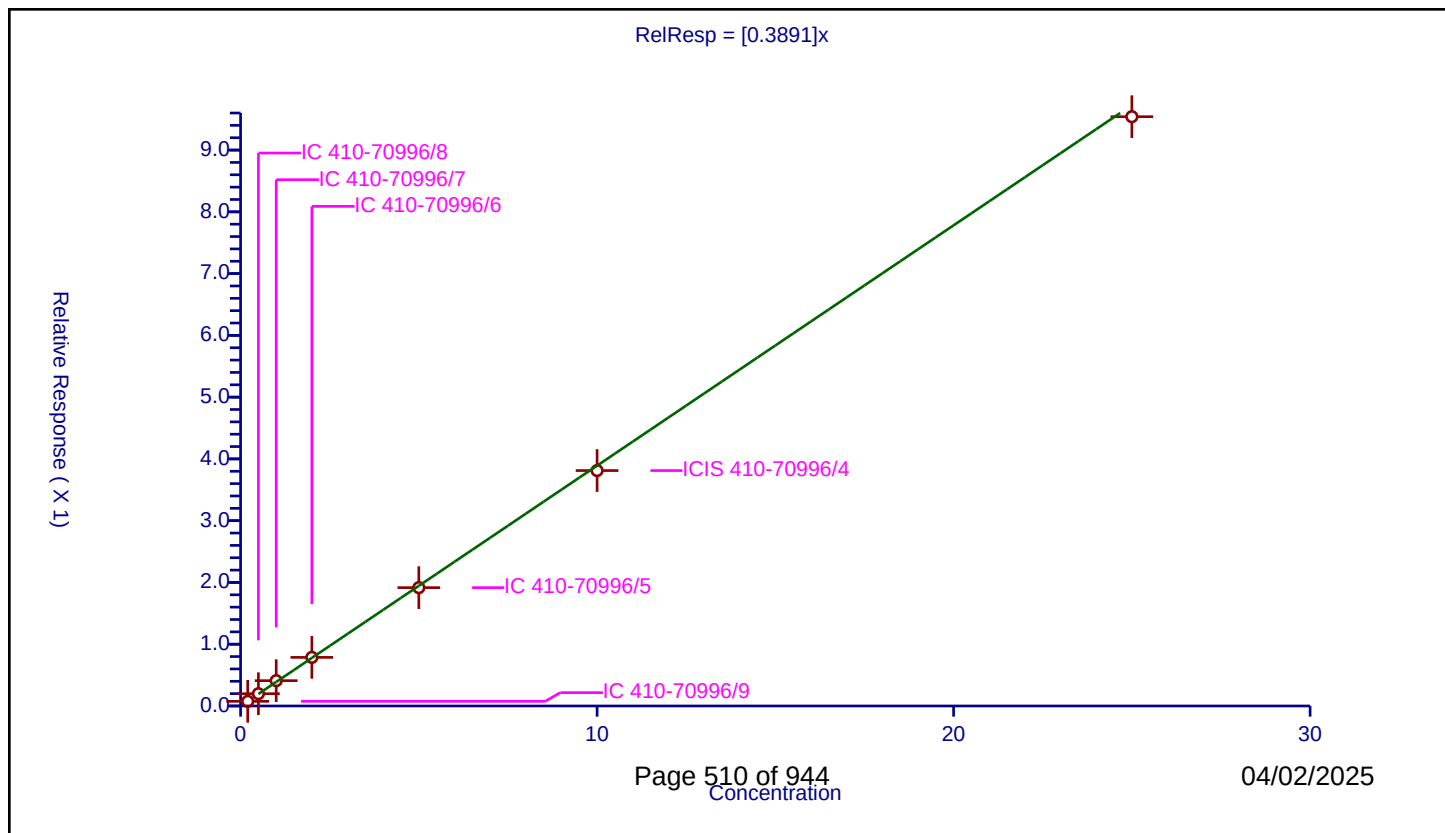
Curve Coefficients

Intercept: 0
Slope: 0.3891

Error Coefficients

Standard Error: 963000
Relative Standard Error: 3.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.075405	10.0	2204755.0	0.377026	Y
2	IC 410-70996/8	0.5	0.198695	10.0	2189287.0	0.39739	Y
3	IC 410-70996/7	1.0	0.409937	10.0	2211412.0	0.409937	Y
4	IC 410-70996/6	2.0	0.786752	10.0	2210035.0	0.393376	Y
5	IC 410-70996/5	5.0	1.915868	10.0	2225560.0	0.383174	Y
6	ICIS 410-70996/4	10.0	3.811434	10.0	2246480.0	0.381143	Y
7	IC 410-70996/3	25.0	9.540501	10.0	2249974.0	0.38162	Y



Calibration

/ Ethyl bromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

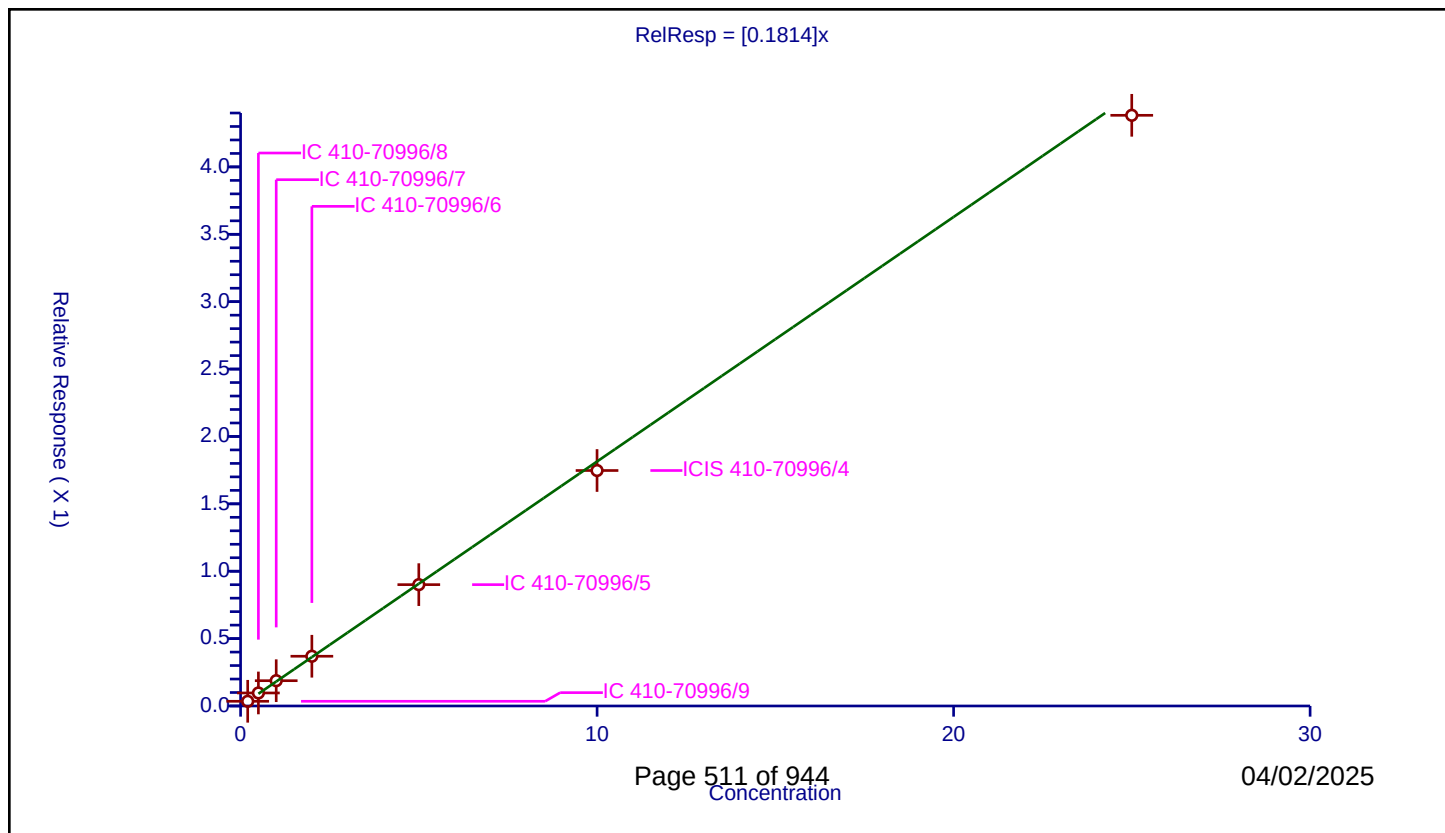
Curve Coefficients

Intercept: 0
Slope: 0.1814

Error Coefficients

Standard Error: 443000
Relative Standard Error: 4.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.19998	0.034838	10.0	2204755.0	0.174209	Y
2	IC 410-70996/8	0.49995	0.096639	10.0	2189287.0	0.193297	Y
3	IC 410-70996/7	0.9999	0.187749	10.0	2211412.0	0.187768	Y
4	IC 410-70996/6	1.9998	0.369098	10.0	2210035.0	0.184568	Y
5	IC 410-70996/5	4.9995	0.900358	10.0	2225560.0	0.18009	Y
6	ICIS 410-70996/4	9.999	1.747302	10.0	2246480.0	0.174748	Y
7	IC 410-70996/3	24.9975	4.383082	10.0	2249974.0	0.175341	Y



Calibration

/ Carbon disulfide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

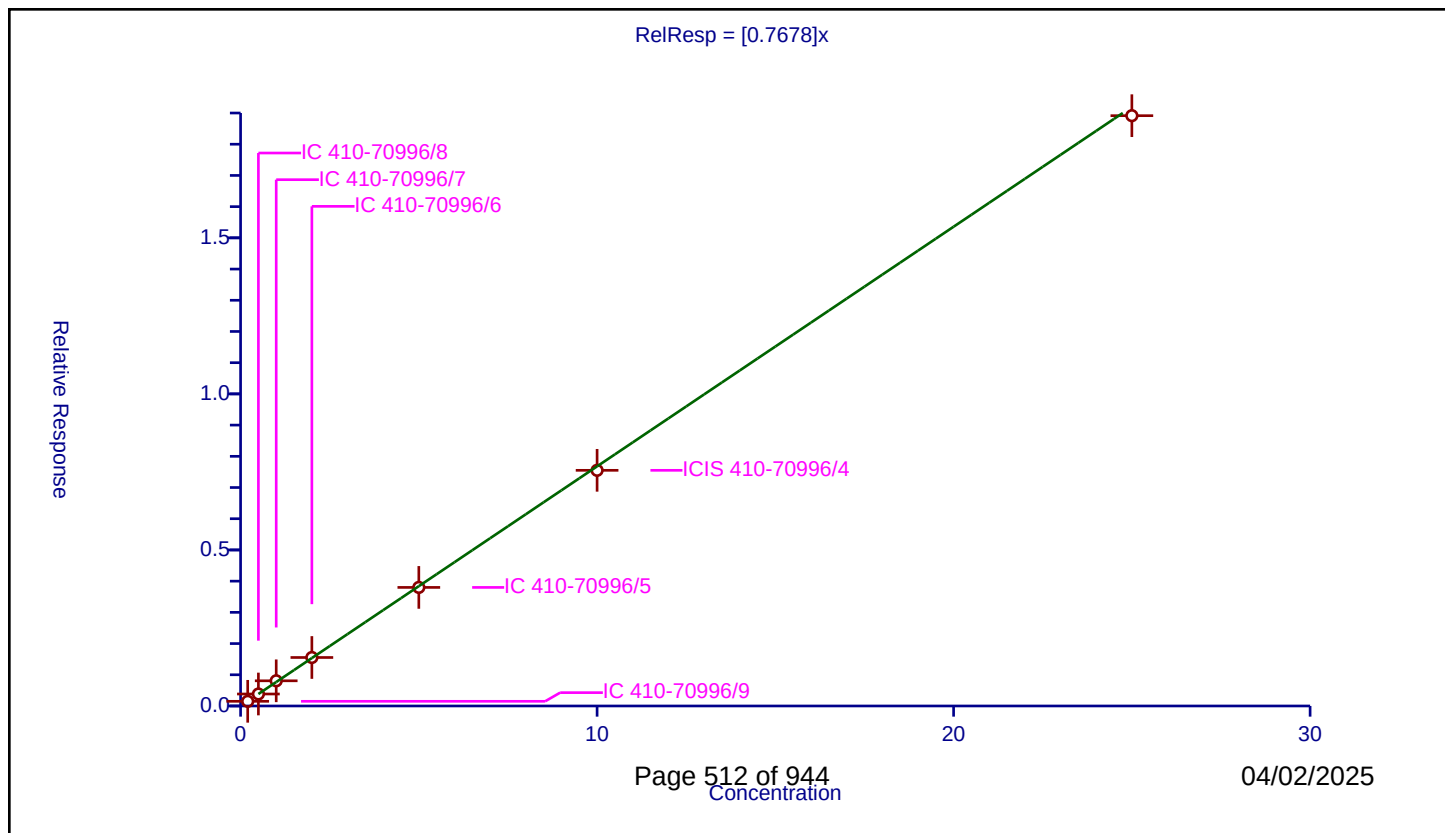
Curve Coefficients

Intercept: 0
Slope: 0.7678

Error Coefficients

Standard Error: 1910000
Relative Standard Error: 2.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.150298	10.0	2204755.0	0.751489	Y
2	IC 410-70996/8	0.5	0.38397	10.0	2189287.0	0.76794	Y
3	IC 410-70996/7	1.0	0.807	10.0	2211412.0	0.807	Y
4	IC 410-70996/6	2.0	1.553564	10.0	2210035.0	0.776782	Y
5	IC 410-70996/5	5.0	3.799632	10.0	2225560.0	0.759926	Y
6	ICIS 410-70996/4	10.0	7.550835	10.0	2246480.0	0.755084	Y
7	IC 410-70996/3	25.0	18.914672	10.0	2249974.0	0.756587	Y



Calibration

/ Methyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

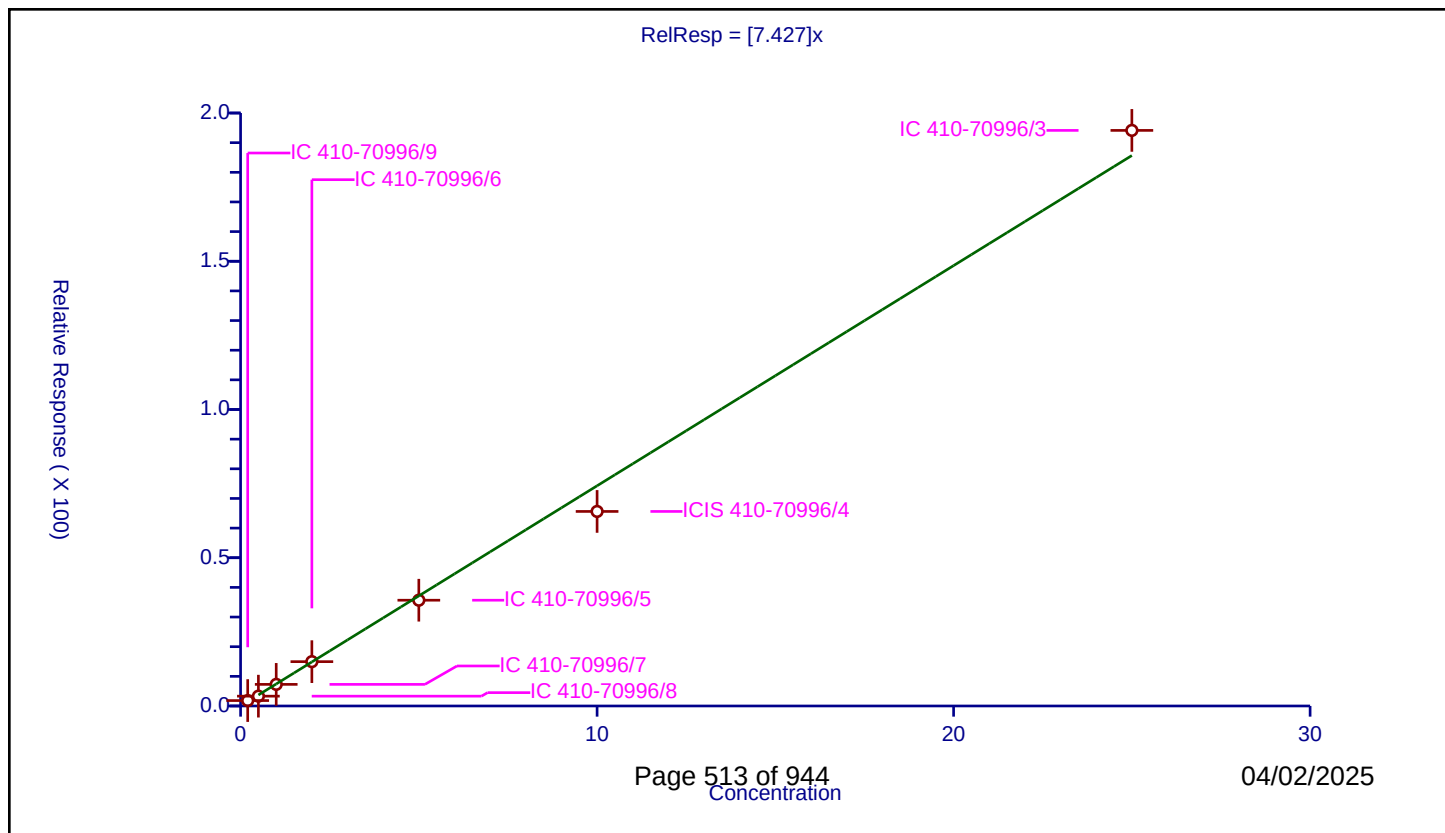
Curve Coefficients

Intercept: 0
Slope: 7.427

Error Coefficients

Standard Error: 305000
Relative Standard Error: 11.7
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	1.827252	50.0	184731.0	9.136258	Y
2	IC 410-70996/8	0.5	3.310457	50.0	195834.0	6.620914	Y
3	IC 410-70996/7	1.0	7.28855	50.0	201206.0	7.28855	Y
4	IC 410-70996/6	2.0	14.95656	50.0	195329.0	7.47828	Y
5	IC 410-70996/5	5.0	35.676028	50.0	183343.0	7.135206	Y
6	ICIS 410-70996/4	10.0	65.6206	50.0	186094.0	6.56206	Y
7	IC 410-70996/3	25.0	194.136398	50.0	177877.0	7.765456	Y



Calibration

/ 3-Chloro-1-propene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

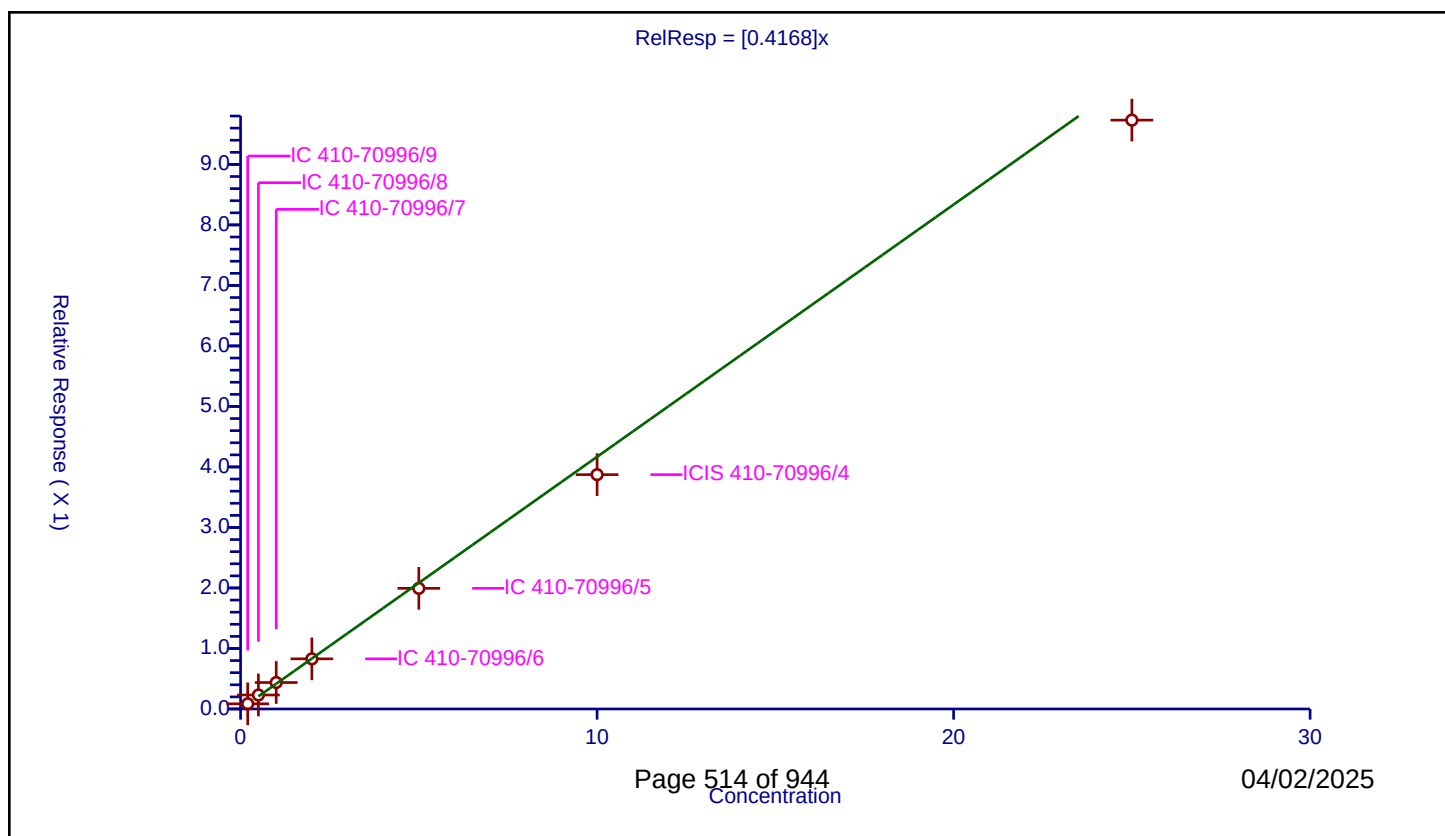
Curve Coefficients

Intercept: 0
Slope: 0.4168

Error Coefficients

Standard Error: 983000
Relative Standard Error: 6.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.085656	10.0	2204755.0	0.428279	Y
2	IC 410-70996/8	0.5	0.231144	10.0	2189287.0	0.462287	Y
3	IC 410-70996/7	1.0	0.437268	10.0	2211412.0	0.437268	Y
4	IC 410-70996/6	2.0	0.828933	10.0	2210035.0	0.414466	Y
5	IC 410-70996/5	5.0	1.99388	10.0	2225560.0	0.398776	Y
6	ICIS 410-70996/4	10.0	3.873153	10.0	2246480.0	0.387315	Y
7	IC 410-70996/3	25.0	9.732019	10.0	2249974.0	0.389281	Y



Calibration

/ Methylene Chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

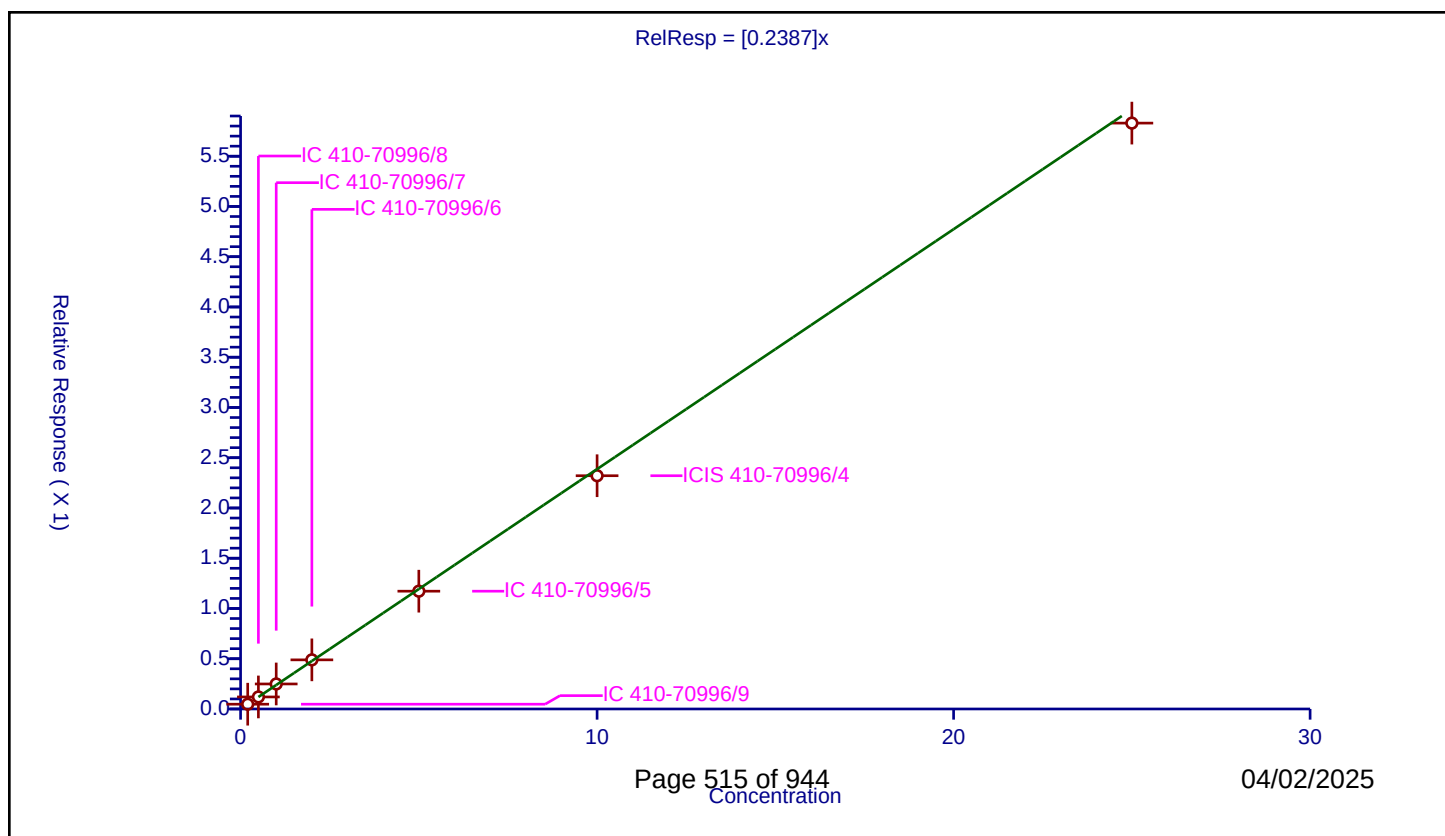
Curve Coefficients

Intercept: 0
Slope: 0.2387

Error Coefficients

Standard Error: 588000
Relative Standard Error: 2.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.047633	10.0	2204755.0	0.238167	Y
2	IC 410-70996/8	0.5	0.119665	10.0	2189287.0	0.239329	Y
3	IC 410-70996/7	1.0	0.249144	10.0	2211412.0	0.249144	Y
4	IC 410-70996/6	2.0	0.488933	10.0	2210035.0	0.244467	Y
5	IC 410-70996/5	5.0	1.172145	10.0	2225560.0	0.234429	Y
6	ICIS 410-70996/4	10.0	2.32108	10.0	2246480.0	0.232108	Y
7	IC 410-70996/3	25.0	5.829525	10.0	2249974.0	0.233181	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

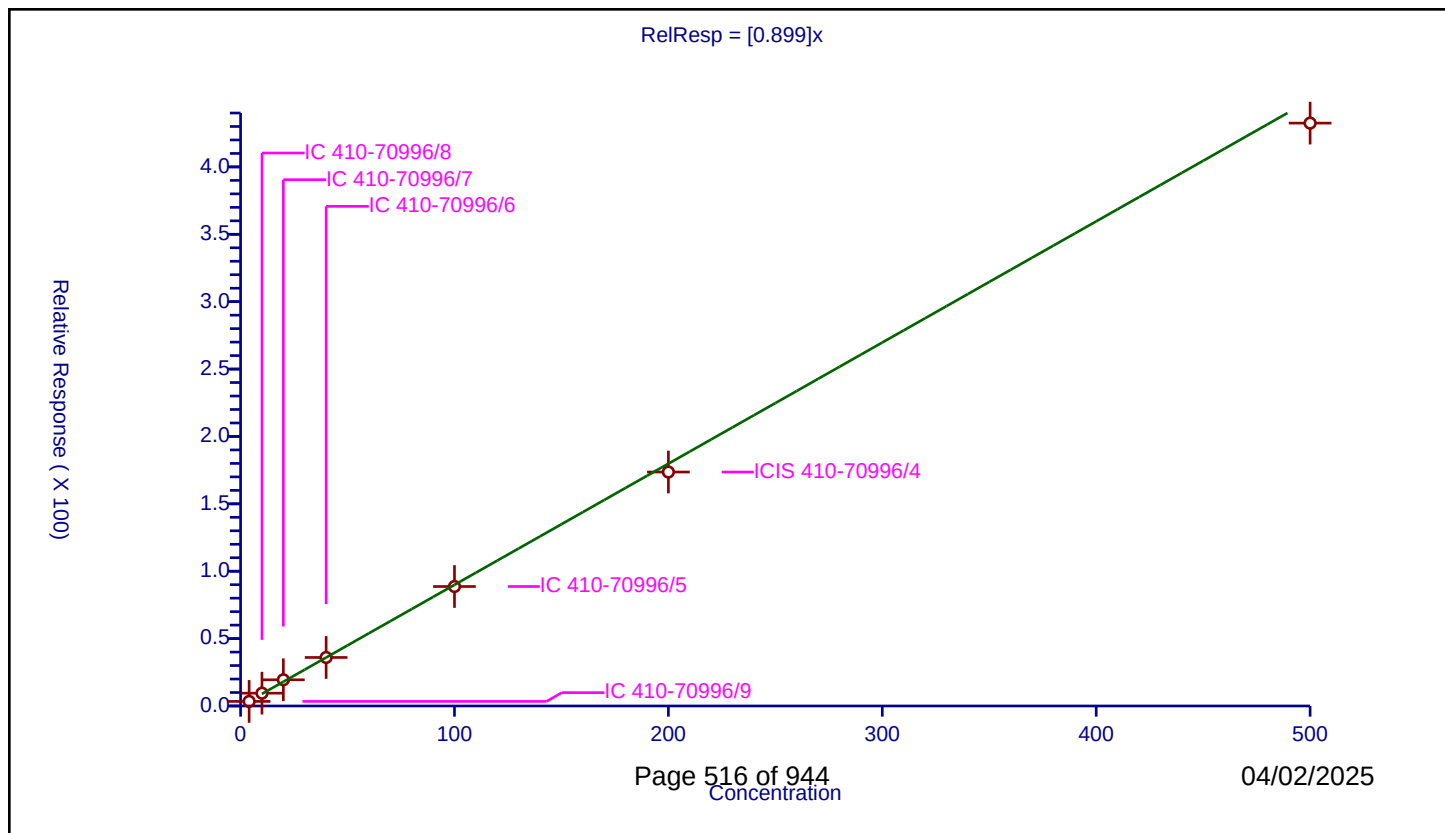
Curve Coefficients

Intercept: 0
Slope: 0.899

Error Coefficients

Standard Error: 697000
Relative Standard Error: 5.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	4.0	3.398996	50.0	184731.0	0.849749	Y
2	IC 410-70996/8	10.0	9.516223	50.0	195834.0	0.951622	Y
3	IC 410-70996/7	20.0	19.445245	50.0	201206.0	0.972262	Y
4	IC 410-70996/6	40.0	35.997983	50.0	195329.0	0.89995	Y
5	IC 410-70996/5	100.0	88.660325	50.0	183343.0	0.886603	Y
6	ICIS 410-70996/4	200.0	173.59399	50.0	186094.0	0.86797	Y
7	IC 410-70996/3	500.0	432.502516	50.0	177877.0	0.865005	Y



Calibration

/ Acrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

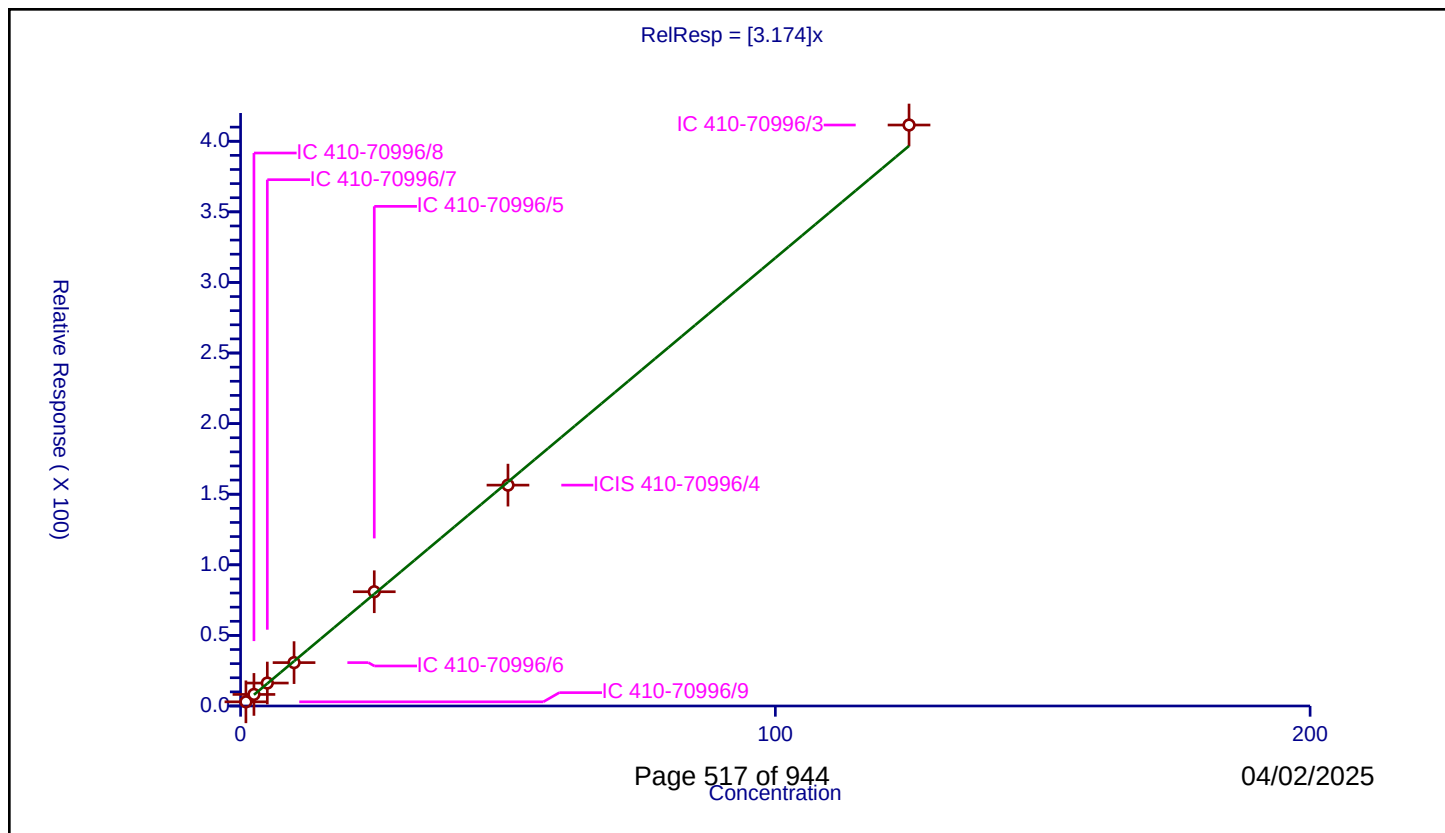
Curve Coefficients

Intercept: 0
Slope: 3.174

Error Coefficients

Standard Error: 657000
Relative Standard Error: 3.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	1.0	2.958626	50.0	184731.0	2.958626	Y
2	IC 410-70996/8	2.5	8.187036	50.0	195834.0	3.274814	Y
3	IC 410-70996/7	5.0	16.260449	50.0	201206.0	3.25209	Y
4	IC 410-70996/6	10.0	30.729436	50.0	195329.0	3.072944	Y
5	IC 410-70996/5	25.0	80.91637	50.0	183343.0	3.236655	Y
6	ICIS 410-70996/4	50.0	156.440294	50.0	186094.0	3.128806	Y
7	IC 410-70996/3	125.0	411.493616	50.0	177877.0	3.291949	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

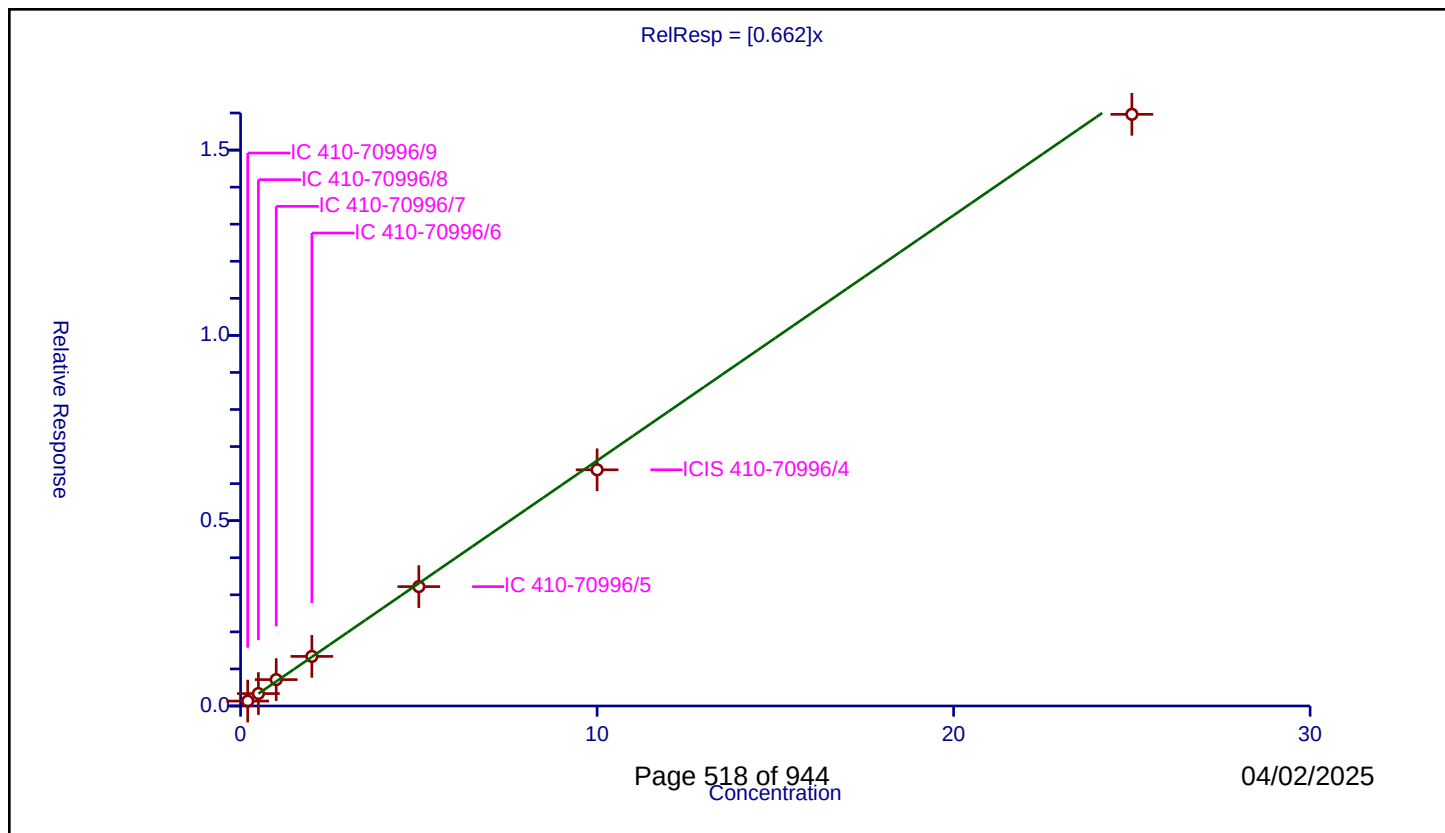
Curve Coefficients

Intercept: 0
Slope: 0.662

Error Coefficients

Standard Error: 1610000
Relative Standard Error: 4.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.132704	10.0	2204755.0	0.66352	Y
2	IC 410-70996/8	0.5	0.334684	10.0	2189287.0	0.669369	Y
3	IC 410-70996/7	1.0	0.712292	10.0	2211412.0	0.712292	Y
4	IC 410-70996/6	2.0	1.337915	10.0	2210035.0	0.668958	Y
5	IC 410-70996/5	5.0	3.221028	10.0	2225560.0	0.644206	Y
6	ICIS 410-70996/4	10.0	6.373162	10.0	2246480.0	0.637316	Y
7	IC 410-70996/3	25.0	15.965087	10.0	2249974.0	0.638603	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

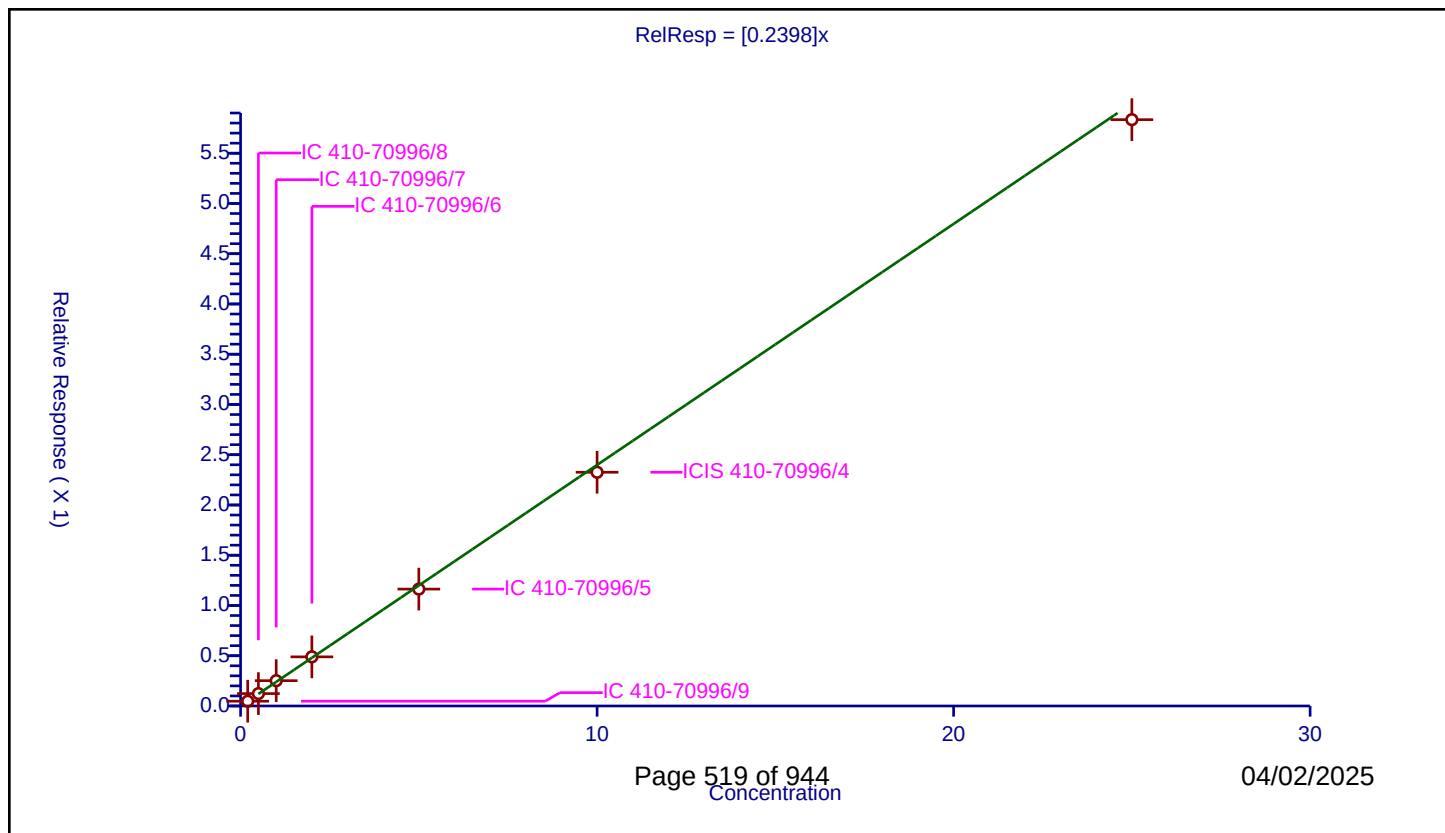
Curve Coefficients

Intercept: 0
 Slope: 0.2398

Error Coefficients

Standard Error: 589000
 Relative Standard Error: 3.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.047525	10.0	2204755.0	0.237623	Y
2	IC 410-70996/8	0.5	0.123159	10.0	2189287.0	0.246318	Y
3	IC 410-70996/7	1.0	0.251902	10.0	2211412.0	0.251902	Y
4	IC 410-70996/6	2.0	0.488933	10.0	2210035.0	0.244467	Y
5	IC 410-70996/5	5.0	1.163105	10.0	2225560.0	0.232621	Y
6	ICIS 410-70996/4	10.0	2.325505	10.0	2246480.0	0.23255	Y
7	IC 410-70996/3	25.0	5.83393	10.0	2249974.0	0.233357	Y



Calibration

/ Hexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

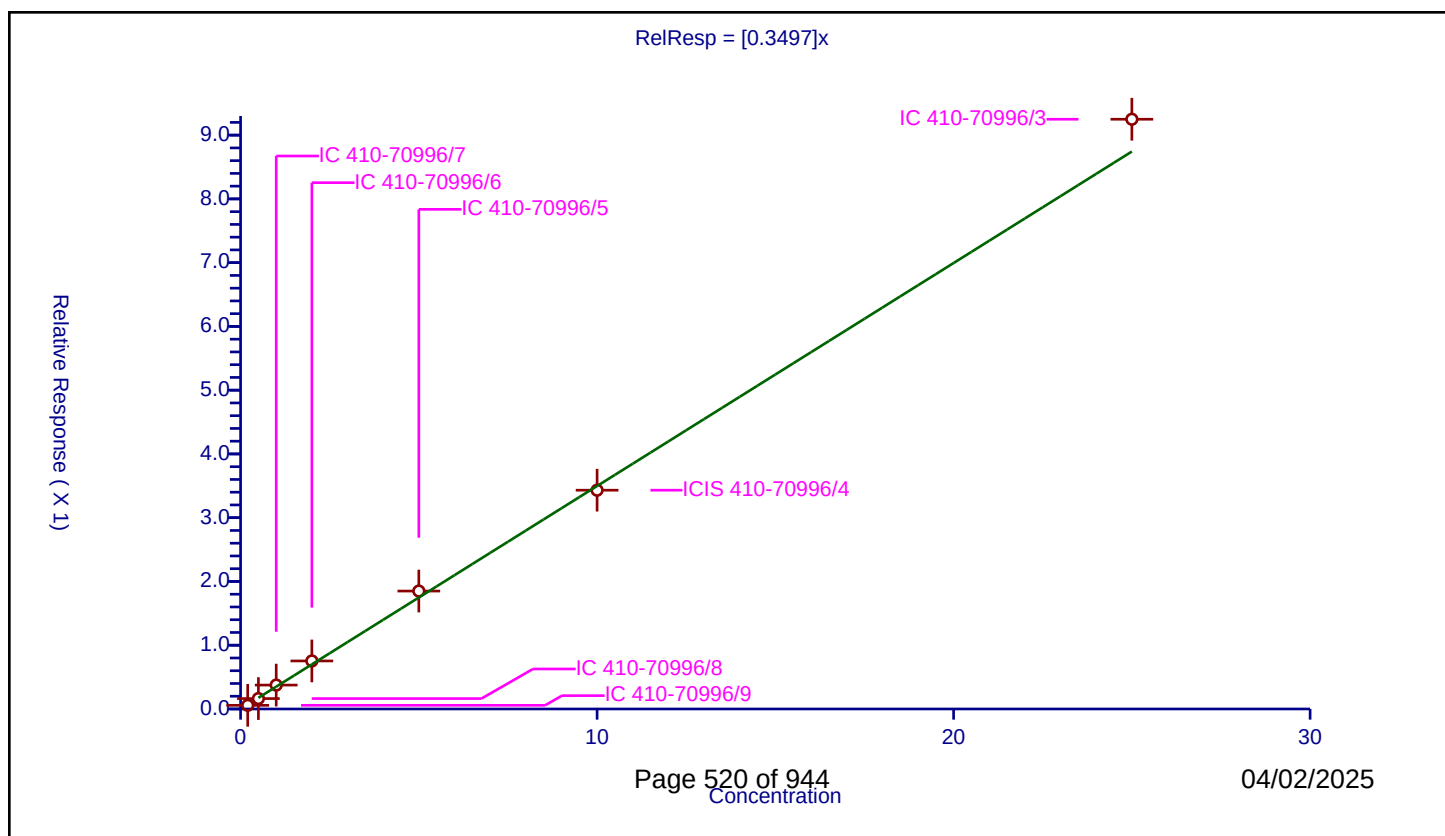
Curve Coefficients

Intercept: 0
 Slope: 0.3497

Error Coefficients

Standard Error: 925000
 Relative Standard Error: 9.6
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.057344	10.0	2204755.0	0.286721	Y
2	IC 410-70996/8	0.5	0.163195	10.0	2189287.0	0.326389	Y
3	IC 410-70996/7	1.0	0.375014	10.0	2211412.0	0.375014	Y
4	IC 410-70996/6	2.0	0.753649	10.0	2210035.0	0.376824	Y
5	IC 410-70996/5	5.0	1.849508	10.0	2225560.0	0.369902	Y
6	ICIS 410-70996/4	10.0	3.431542	10.0	2246480.0	0.343154	Y
7	IC 410-70996/3	25.0	9.249267	10.0	2249974.0	0.369971	Y



Calibration

/ 1,1-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

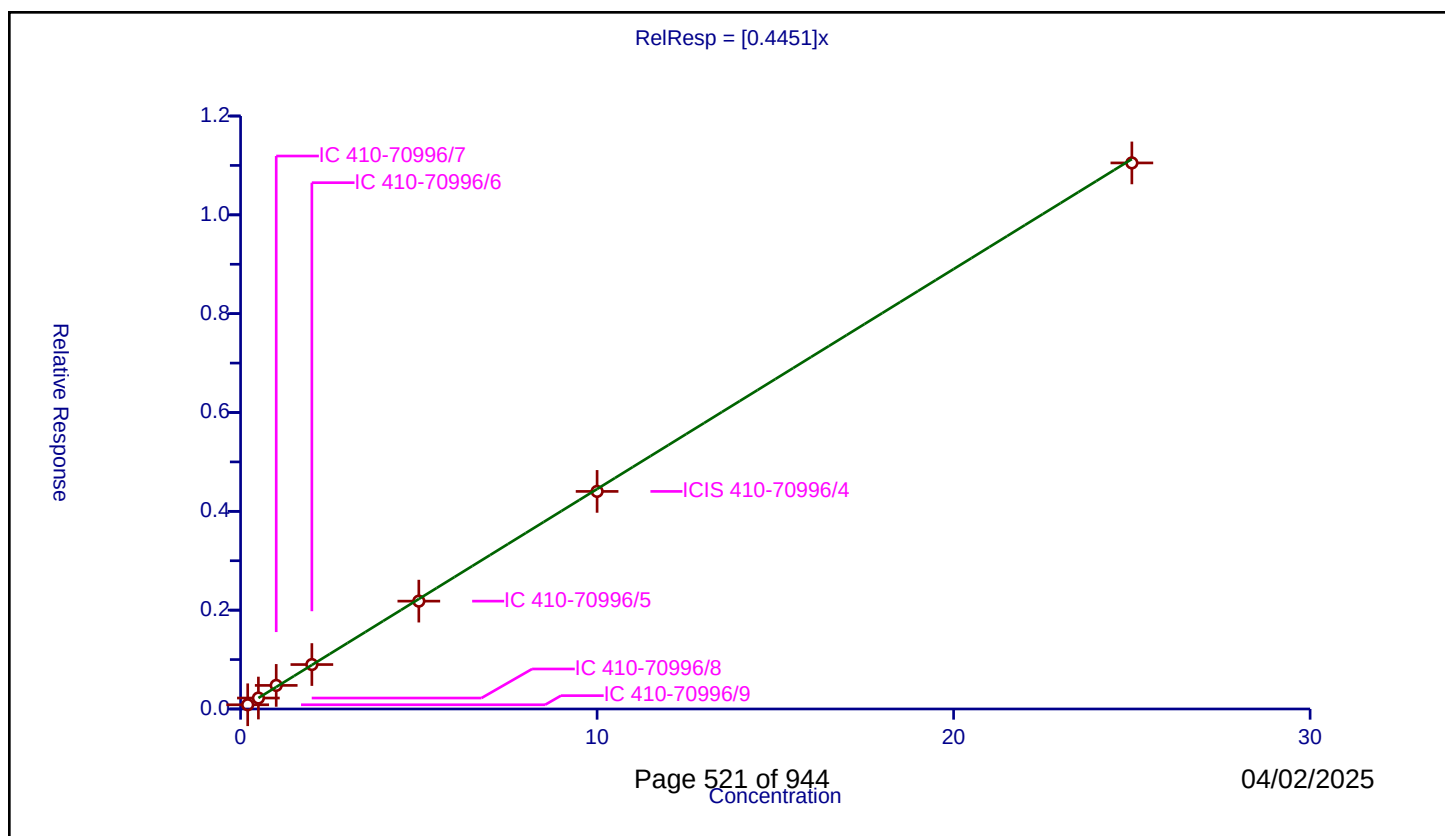
Curve Coefficients

Intercept: 0
Slope: 0.4451

Error Coefficients

Standard Error: 1110000
Relative Standard Error: 3.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.085397	10.0	2204755.0	0.426986	Y
2	IC 410-70996/8	0.5	0.221574	10.0	2189287.0	0.443149	Y
3	IC 410-70996/7	1.0	0.477121	10.0	2211412.0	0.477121	Y
4	IC 410-70996/6	2.0	0.89933	10.0	2210035.0	0.449665	Y
5	IC 410-70996/5	5.0	2.182687	10.0	2225560.0	0.436537	Y
6	ICIS 410-70996/4	10.0	4.403355	10.0	2246480.0	0.440336	Y
7	IC 410-70996/3	25.0	11.050888	10.0	2249974.0	0.442036	Y



Calibration

/ Isopropyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

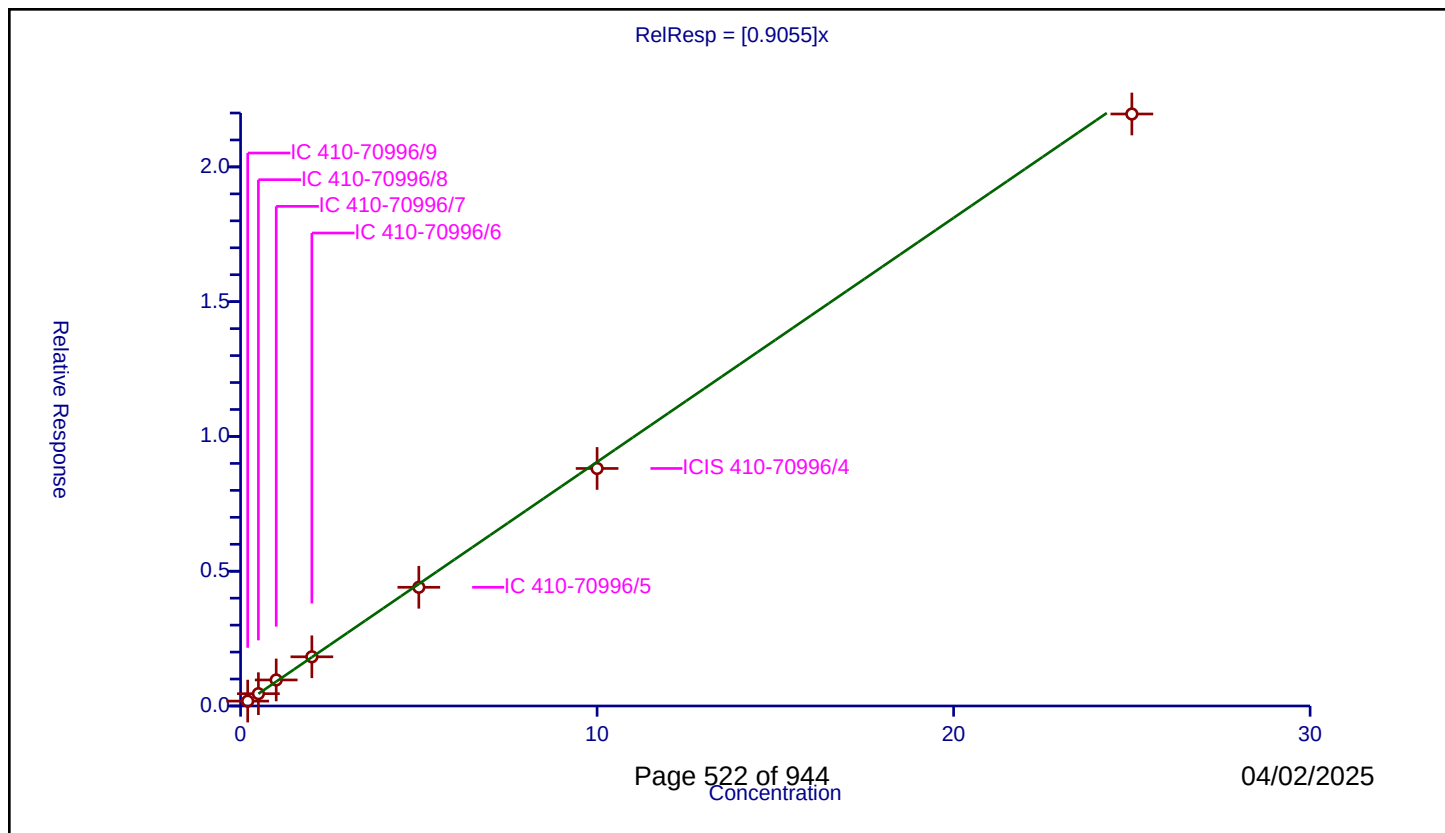
Curve Coefficients

Intercept: 0
 Slope: 0.9055

Error Coefficients

Standard Error: 2220000
 Relative Standard Error: 3.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.181231	10.0	2204755.0	0.906155	Y
2	IC 410-70996/8	0.5	0.456413	10.0	2189287.0	0.912827	Y
3	IC 410-70996/7	1.0	0.96622	10.0	2211412.0	0.96622	Y
4	IC 410-70996/6	2.0	1.825016	10.0	2210035.0	0.912508	Y
5	IC 410-70996/5	5.0	4.40384	10.0	2225560.0	0.880768	Y
6	ICIS 410-70996/4	10.0	8.812262	10.0	2246480.0	0.881226	Y
7	IC 410-70996/3	25.0	21.96356	10.0	2249974.0	0.878542	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

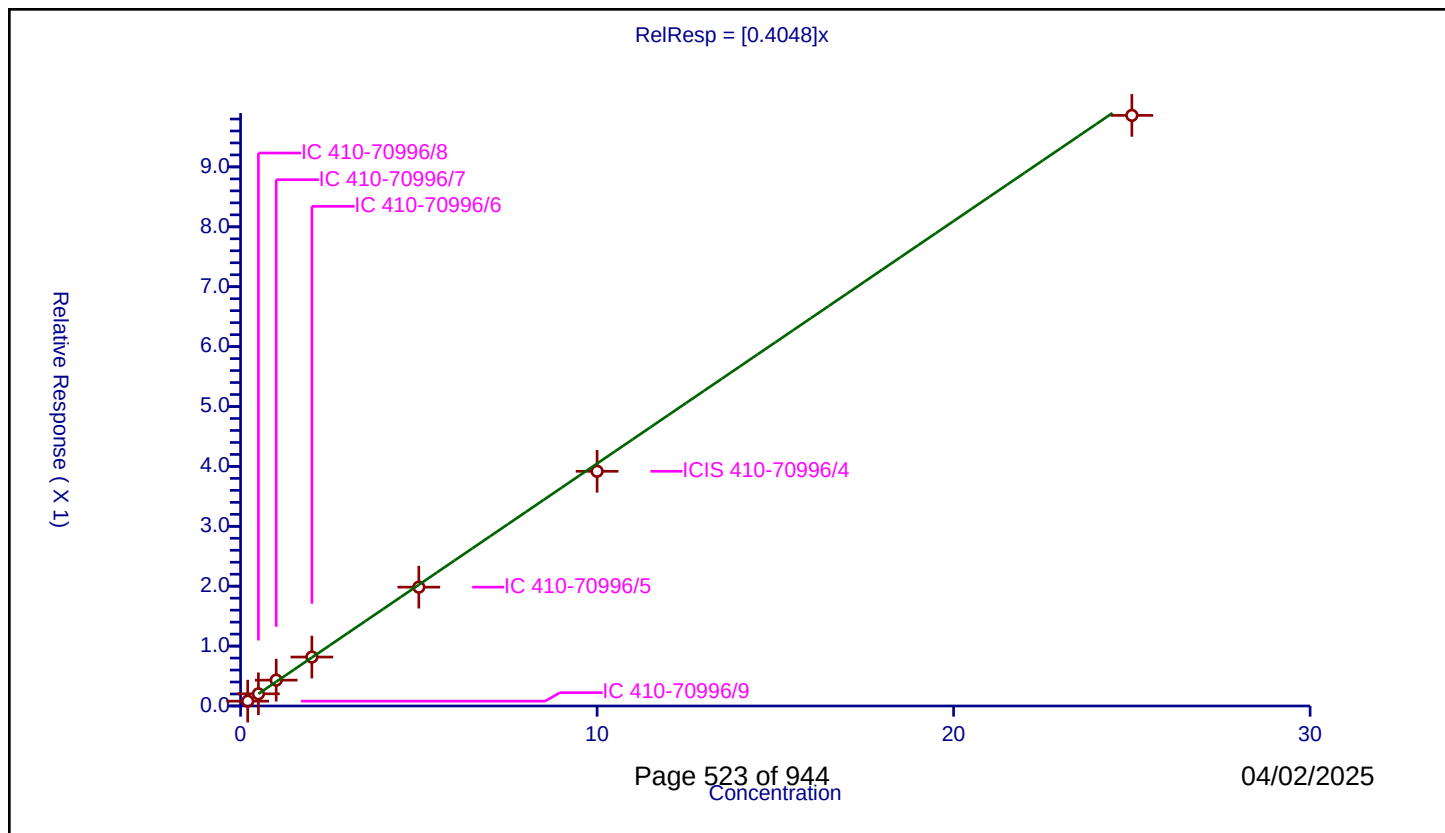
Curve Coefficients

Intercept: 0
 Slope: 0.4048

Error Coefficients

Standard Error: 995000
 Relative Standard Error: 3.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.08083	10.0	2204755.0	0.404149	Y
2	IC 410-70996/8	0.5	0.203071	10.0	2189287.0	0.406141	Y
3	IC 410-70996/7	1.0	0.431525	10.0	2211412.0	0.431525	Y
4	IC 410-70996/6	2.0	0.817069	10.0	2210035.0	0.408534	Y
5	IC 410-70996/5	5.0	1.984	10.0	2225560.0	0.3968	Y
6	ICIS 410-70996/4	10.0	3.918731	10.0	2246480.0	0.391873	Y
7	IC 410-70996/3	25.0	9.860341	10.0	2249974.0	0.394414	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

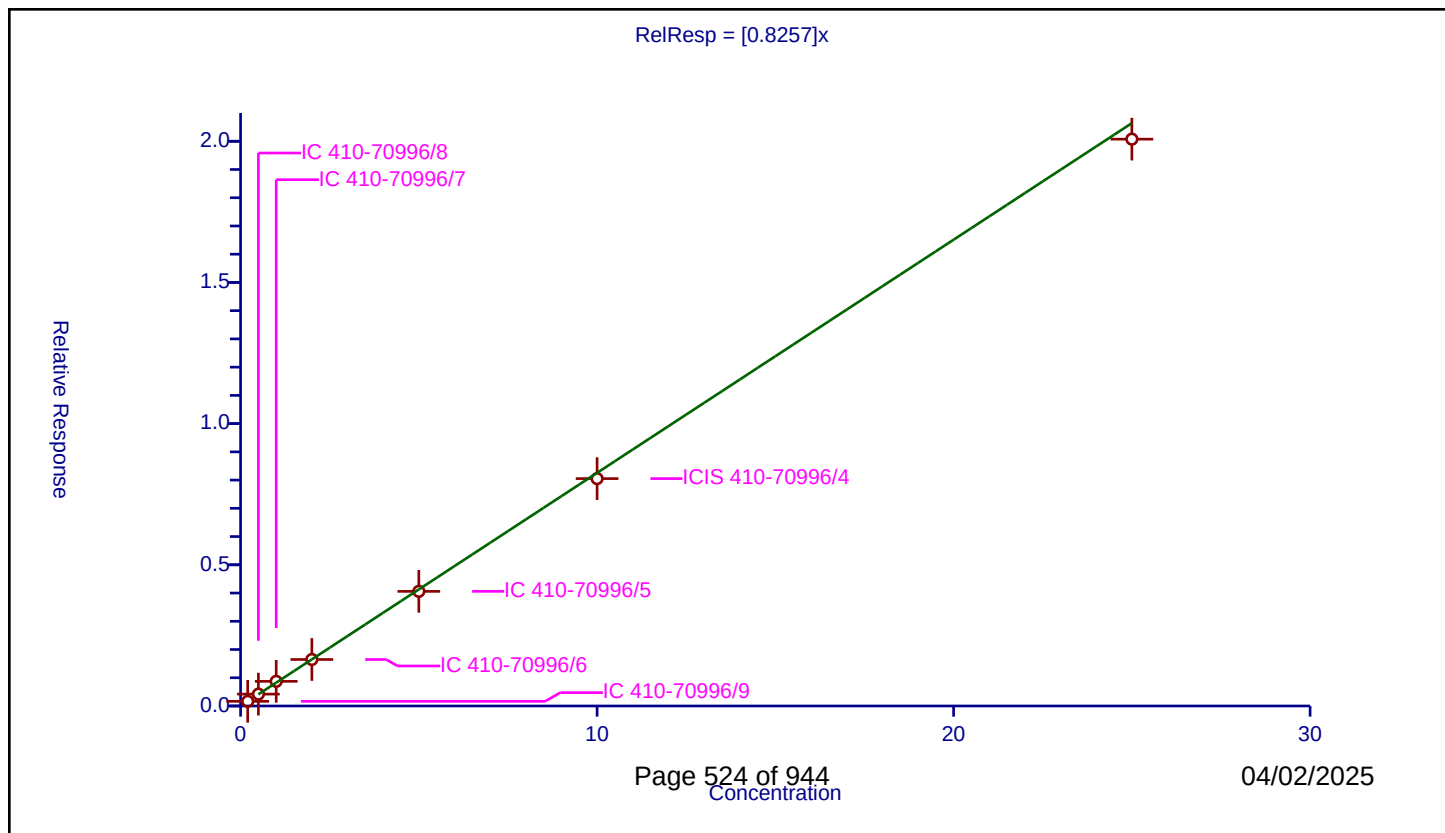
Curve Coefficients

Intercept: 0
 Slope: 0.8257

Error Coefficients

Standard Error: 2030000
 Relative Standard Error: 3.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.164472	10.0	2204755.0	0.822359	Y
2	IC 410-70996/8	0.5	0.420635	10.0	2189287.0	0.841269	Y
3	IC 410-70996/7	1.0	0.872831	10.0	2211412.0	0.872831	Y
4	IC 410-70996/6	2.0	1.646105	10.0	2210035.0	0.823053	Y
5	IC 410-70996/5	5.0	4.059473	10.0	2225560.0	0.811895	Y
6	ICIS 410-70996/4	10.0	8.052371	10.0	2246480.0	0.805237	Y
7	IC 410-70996/3	25.0	20.074854	10.0	2249974.0	0.802994	Y



Calibration

/ 2-Butanone (MEK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

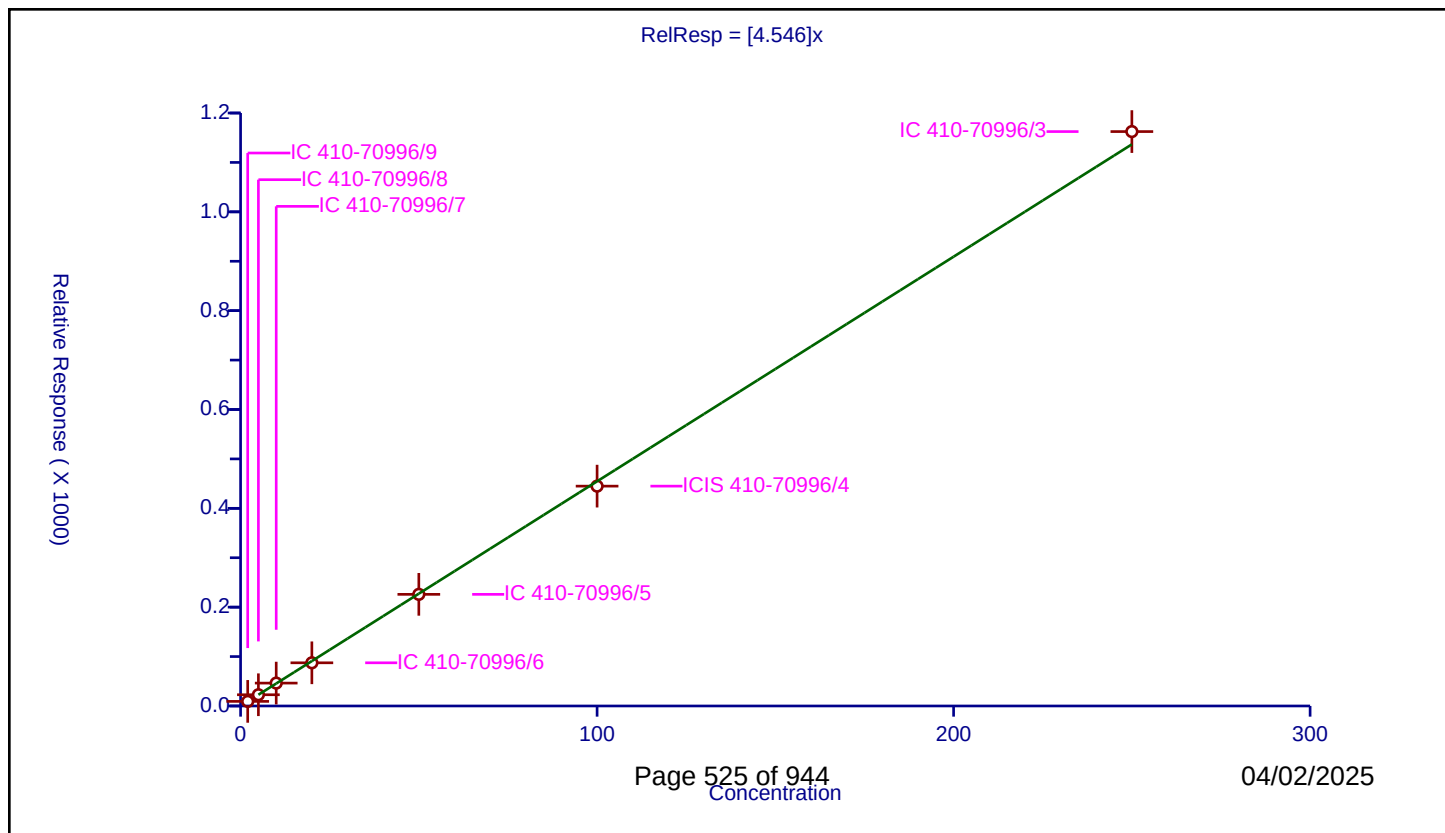
Curve Coefficients

Intercept: 0
 Slope: 4.546

Error Coefficients

Standard Error: 1860000
 Relative Standard Error: 2.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	2.0	9.304069	50.0	184731.0	4.652035	Y
2	IC 410-70996/8	5.0	22.759582	50.0	195834.0	4.551916	Y
3	IC 410-70996/7	10.0	46.328638	50.0	201206.0	4.632864	Y
4	IC 410-70996/6	20.0	87.404072	50.0	195329.0	4.370204	Y
5	IC 410-70996/5	50.0	225.902271	50.0	183343.0	4.518045	Y
6	ICIS 410-70996/4	100.0	444.912786	50.0	186094.0	4.449128	Y
7	IC 410-70996/3	250.0	1162.465074	50.0	177877.0	4.64986	Y



Calibration

/ cis-1,2-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

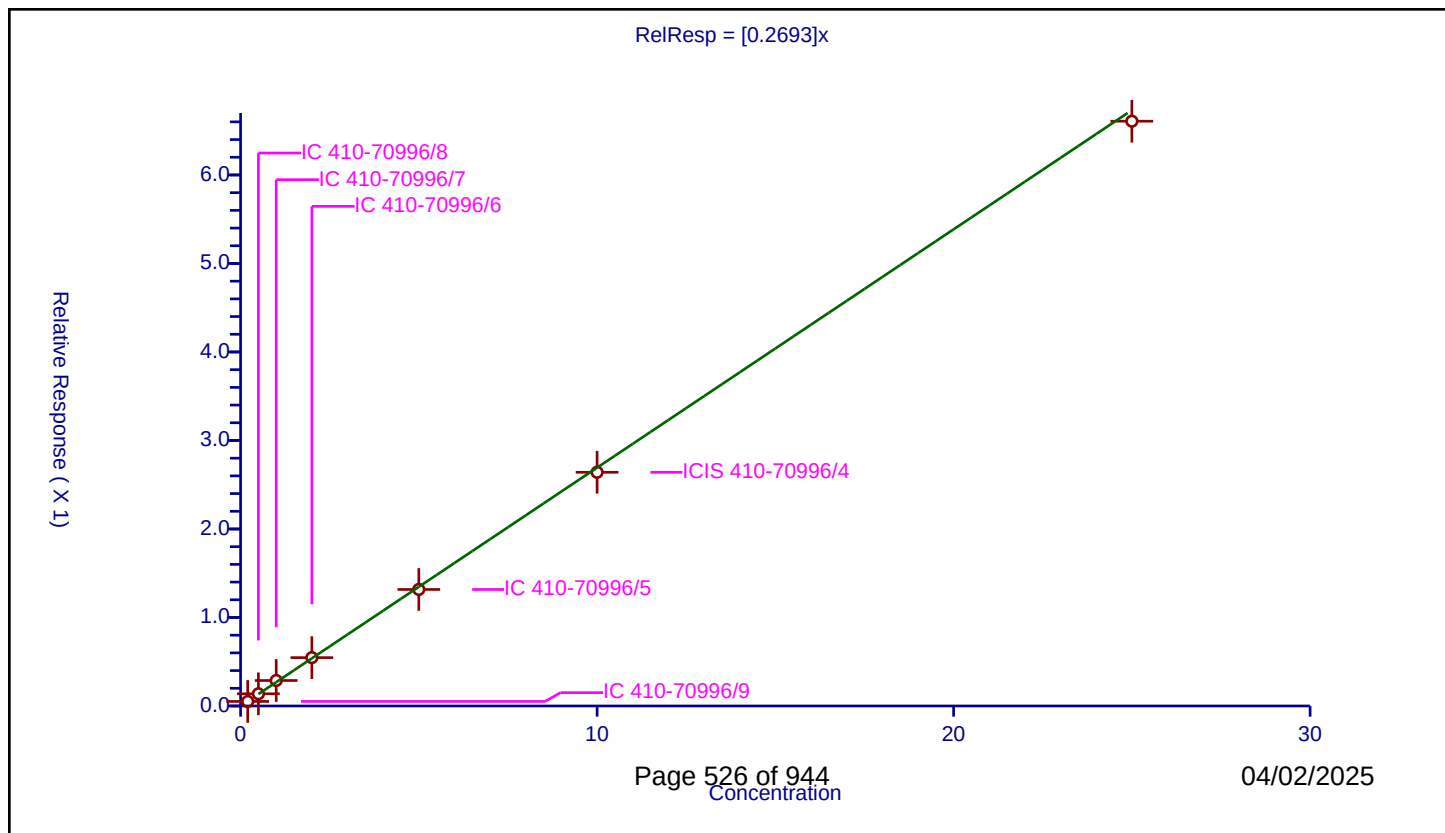
Curve Coefficients

Intercept: 0
Slope: 0.2693

Error Coefficients

Standard Error: 667000
Relative Standard Error: 3.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.051271	10.0	2204755.0	0.256355	Y
2	IC 410-70996/8	0.5	0.13794	10.0	2189287.0	0.27588	Y
3	IC 410-70996/7	1.0	0.287825	10.0	2211412.0	0.287825	Y
4	IC 410-70996/6	2.0	0.546349	10.0	2210035.0	0.273174	Y
5	IC 410-70996/5	5.0	1.316648	10.0	2225560.0	0.26333	Y
6	ICIS 410-70996/4	10.0	2.640771	10.0	2246480.0	0.264077	Y
7	IC 410-70996/3	25.0	6.607619	10.0	2249974.0	0.264305	Y



Calibration

/ 2,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

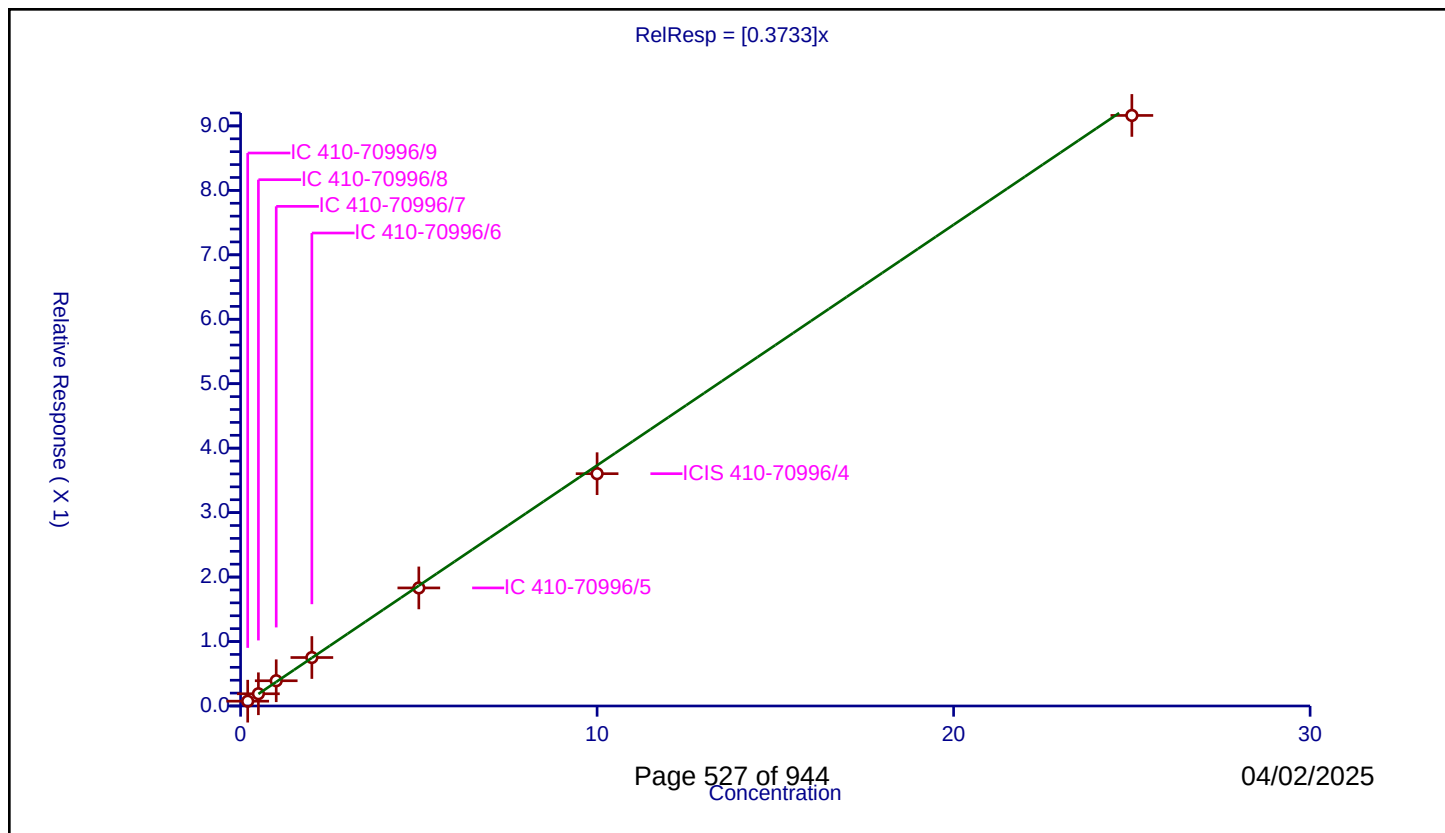
Curve Coefficients

Intercept: 0
Slope: 0.3733

Error Coefficients

Standard Error: 923000
Relative Standard Error: 2.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.074729	10.0	2204755.0	0.373647	Y
2	IC 410-70996/8	0.5	0.1895	10.0	2189287.0	0.379	Y
3	IC 410-70996/7	1.0	0.39146	10.0	2211412.0	0.39146	Y
4	IC 410-70996/6	2.0	0.751762	10.0	2210035.0	0.375881	Y
5	IC 410-70996/5	5.0	1.831678	10.0	2225560.0	0.366336	Y
6	ICIS 410-70996/4	10.0	3.604052	10.0	2246480.0	0.360405	Y
7	IC 410-70996/3	25.0	9.162381	10.0	2249974.0	0.366495	Y



Calibration

/ Propionitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

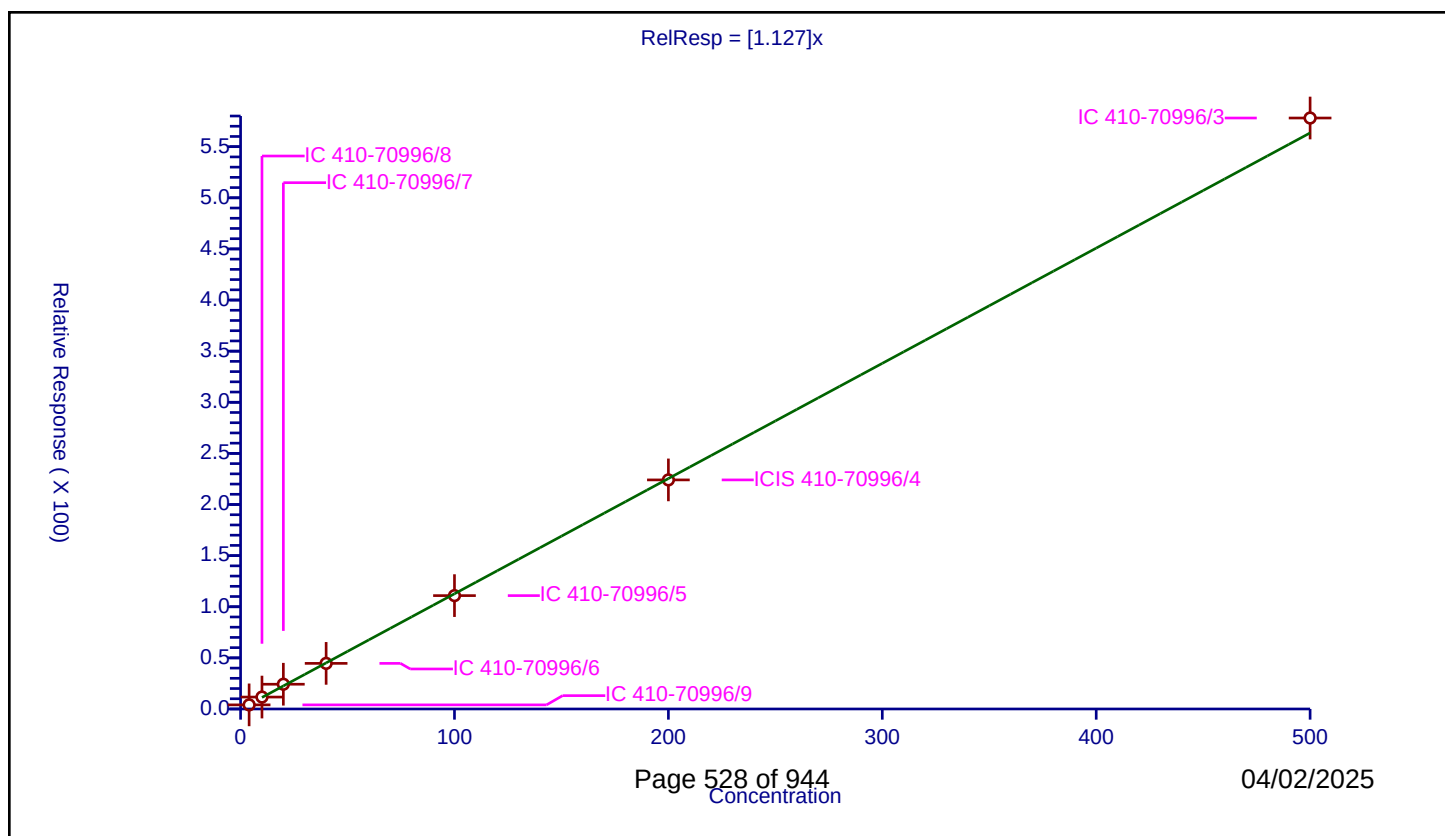
Curve Coefficients

Intercept: 0
Slope: 1.127

Error Coefficients

Standard Error: 925000
Relative Standard Error: 5.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

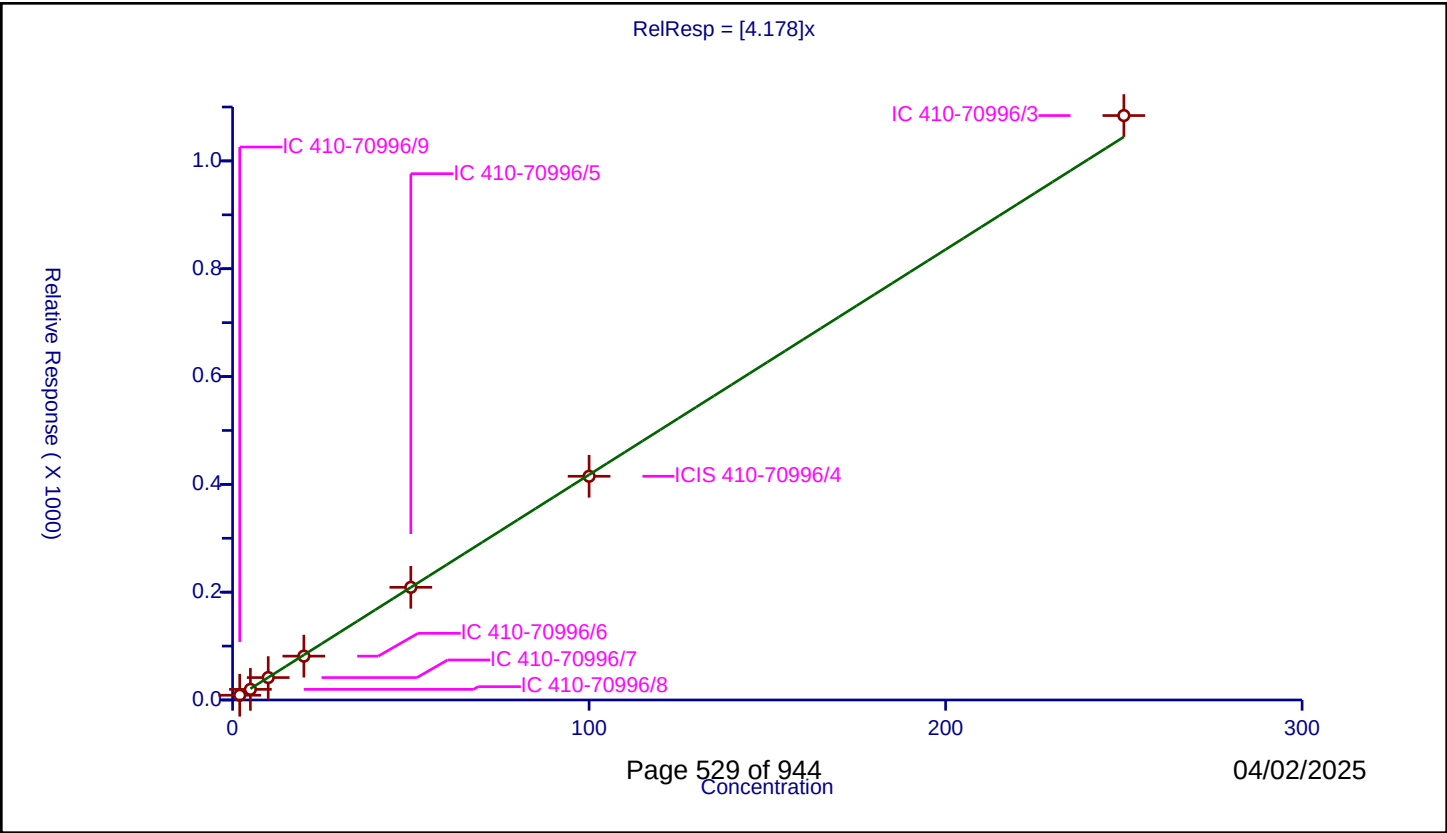
ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	4.0	4.035056	50.0	184731.0	1.008764	Y
2	IC 410-70996/8	10.0	11.68362	50.0	195834.0	1.168362	Y
3	IC 410-70996/7	20.0	24.216226	50.0	201206.0	1.210811	Y
4	IC 410-70996/6	40.0	44.615495	50.0	195329.0	1.115387	Y
5	IC 410-70996/5	100.0	110.883699	50.0	183343.0	1.108837	Y
6	ICIS 410-70996/4	200.0	224.067675	50.0	186094.0	1.120338	Y
7	IC 410-70996/3	500.0	578.037352	50.0	177877.0	1.156075	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:	4.178
Error Coefficients	
Standard Error:	1730000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	2.0	8.818228	50.0	184731.0	4.409114	Y
2	IC 410-70996/8	5.0	19.72972	50.0	195834.0	3.945944	Y
3	IC 410-70996/7	10.0	41.583004	50.0	201206.0	4.1583	Y
4	IC 410-70996/6	20.0	81.341736	50.0	195329.0	4.067087	Y
5	IC 410-70996/5	50.0	209.013979	50.0	183343.0	4.18028	Y
6	ICIS 410-70996/4	100.0	415.025202	50.0	186094.0	4.150252	Y
7	IC 410-70996/3	250.0	1084.185139	50.0	177877.0	4.336741	Y



Calibration

/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

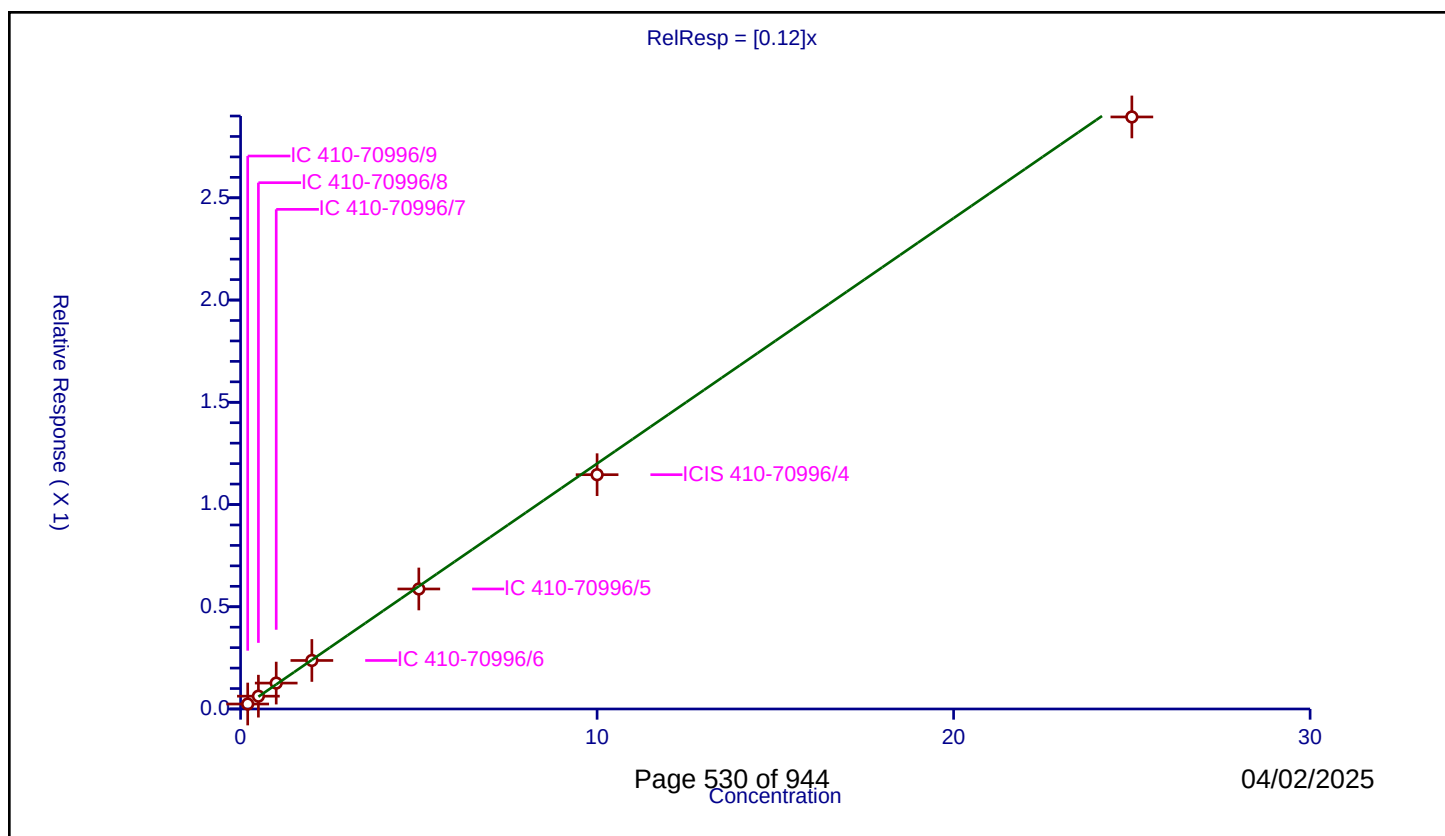
Curve Coefficients

Intercept: 0
Slope: 0.12

Error Coefficients

Standard Error: 292000
Relative Standard Error: 3.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.024338	10.0	2204755.0	0.121692	Y
2	IC 410-70996/8	0.5	0.062678	10.0	2189287.0	0.125356	Y
3	IC 410-70996/7	1.0	0.126666	10.0	2211412.0	0.126666	Y
4	IC 410-70996/6	2.0	0.23725	10.0	2210035.0	0.118625	Y
5	IC 410-70996/5	5.0	0.58694	10.0	2225560.0	0.117388	Y
6	ICIS 410-70996/4	10.0	1.145864	10.0	2246480.0	0.114586	Y
7	IC 410-70996/3	25.0	2.895371	10.0	2249974.0	0.115815	Y



Calibration

/ Tetrahydrofuran

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

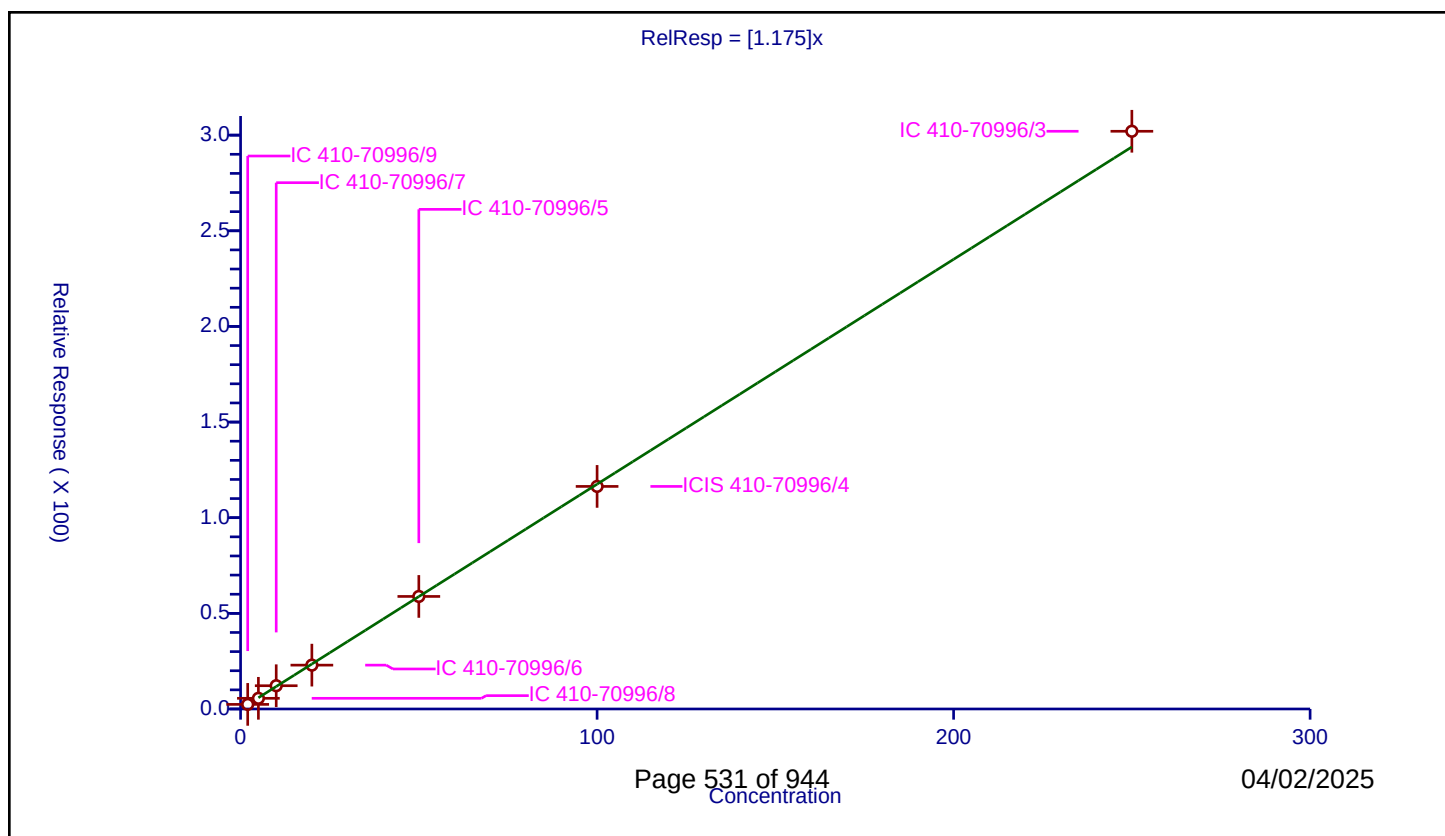
Curve Coefficients

Intercept: 0
Slope: 1.175

Error Coefficients

Standard Error: 483000
Relative Standard Error: 3.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	2.0	2.401059	50.0	184731.0	1.200529	Y
2	IC 410-70996/8	5.0	5.579726	50.0	195834.0	1.115945	Y
3	IC 410-70996/7	10.0	12.162659	50.0	201206.0	1.216266	Y
4	IC 410-70996/6	20.0	22.928751	50.0	195329.0	1.146438	Y
5	IC 410-70996/5	50.0	58.843261	50.0	183343.0	1.176865	Y
6	ICIS 410-70996/4	100.0	116.36028	50.0	186094.0	1.163603	Y
7	IC 410-70996/3	250.0	302.020778	50.0	177877.0	1.208083	Y



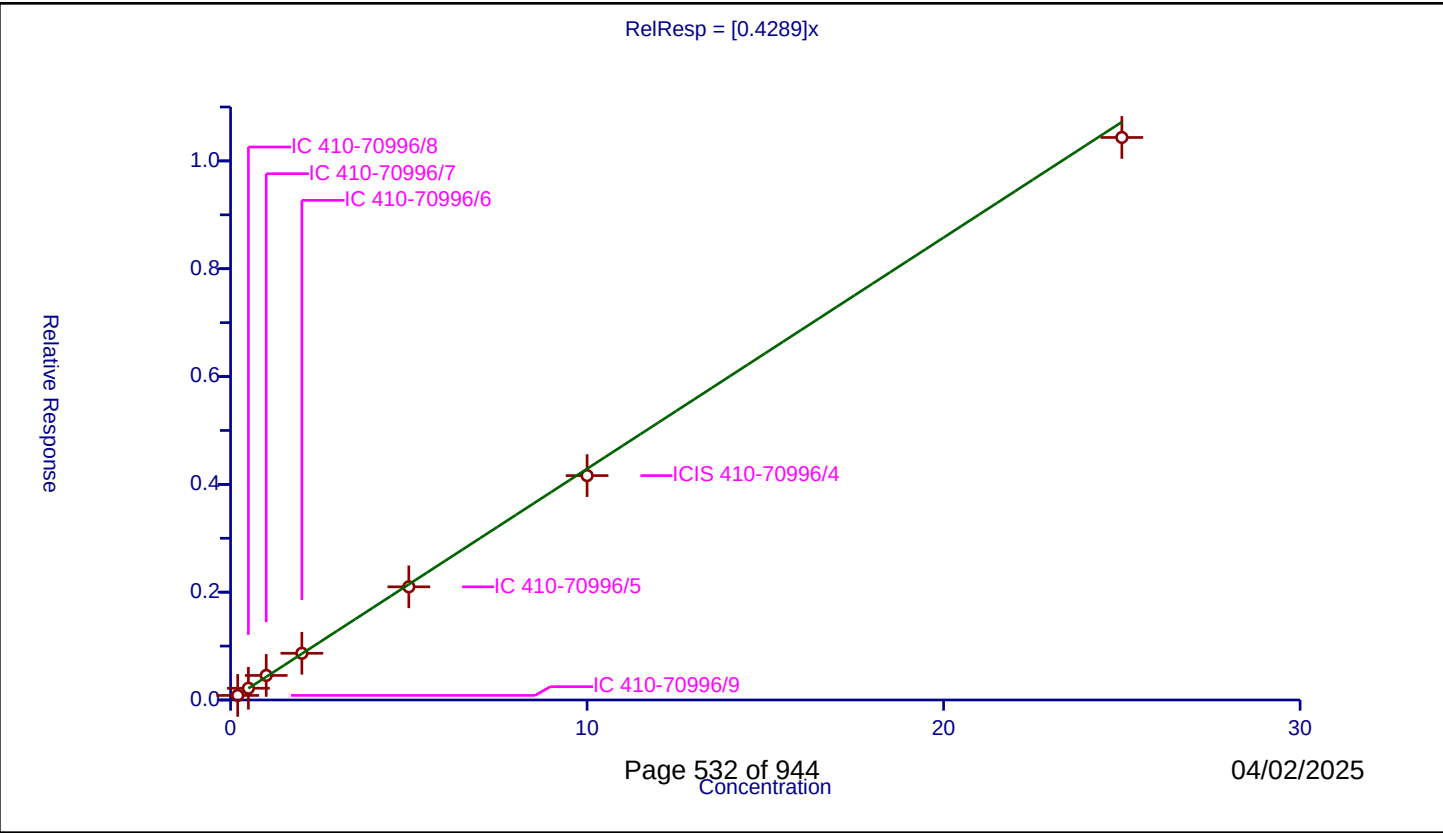
Calibration

/ 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:	0.4289
Error Coefficients	
Standard Error:	1050000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.084817	10.0	2204755.0	0.424083	Y
2	IC 410-70996/8	0.5	0.218025	10.0	2189287.0	0.436051	Y
3	IC 410-70996/7	1.0	0.455315	10.0	2211412.0	0.455315	Y
4	IC 410-70996/6	2.0	0.86662	10.0	2210035.0	0.43331	Y
5	IC 410-70996/5	5.0	2.099206	10.0	2225560.0	0.419841	Y
6	ICIS 410-70996/4	10.0	4.162441	10.0	2246480.0	0.416244	Y
7	IC 410-70996/3	25.0	10.435294	10.0	2249974.0	0.417412	Y



Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

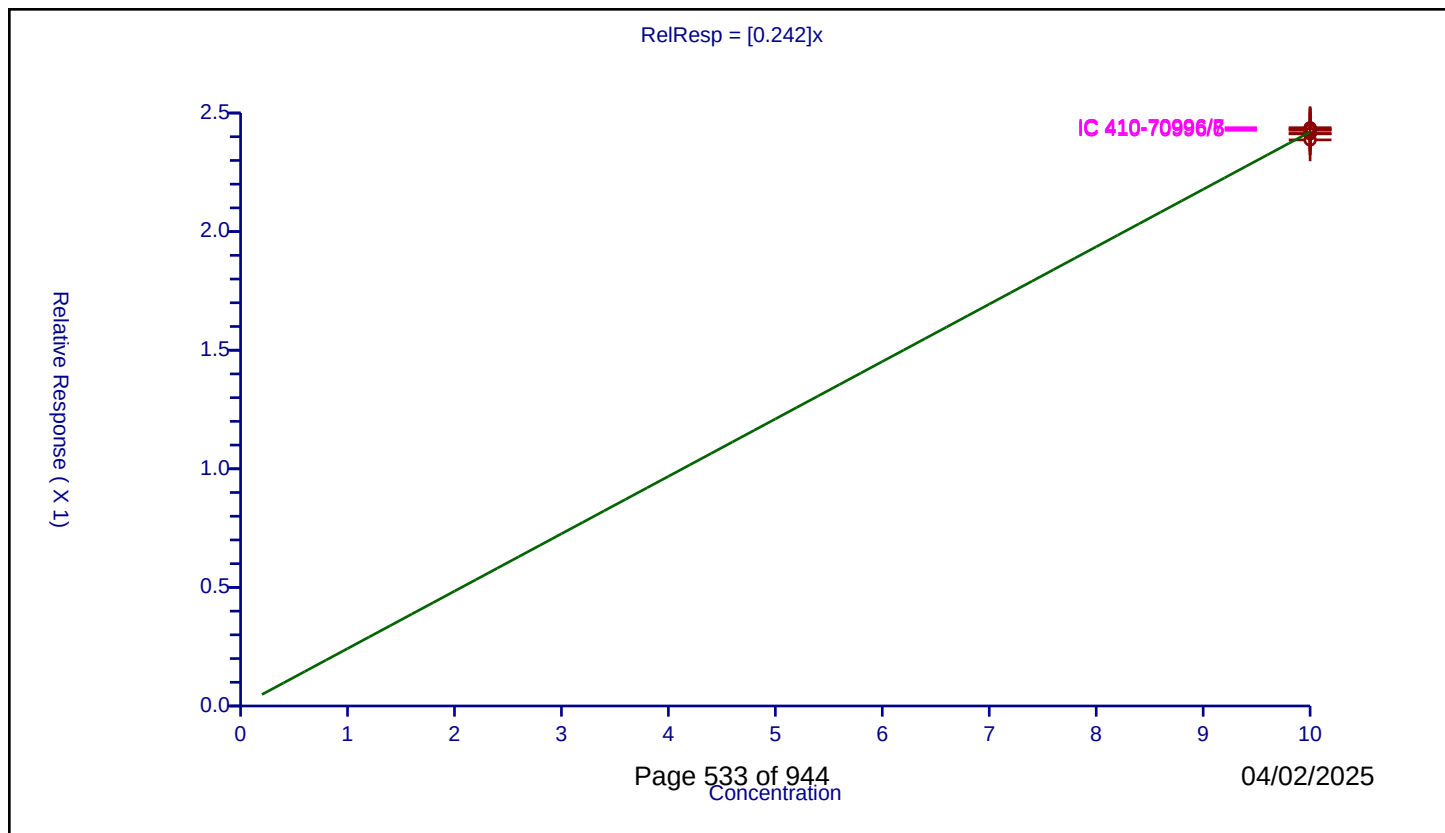
Curve Coefficients

Intercept: 0
 Slope: 0.242

Error Coefficients

Standard Error: 580000
 Relative Standard Error: 0.7
 Correlation Coefficient: NA
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/3	10.0	2.413806	10.0	2249974.0	0.241381	Y
2	ICIS 410-70996/4	10.0	2.412138	10.0	2246480.0	0.241214	Y
3	IC 410-70996/5	10.0	2.427874	10.0	2225560.0	0.242787	Y
4	IC 410-70996/6	10.0	2.428686	10.0	2210035.0	0.242869	Y
5	IC 410-70996/7	10.0	2.438035	10.0	2211412.0	0.243804	Y
6	IC 410-70996/8	10.0	2.434409	10.0	2189287.0	0.243441	Y
7	IC 410-70996/9	10.0	2.386642	10.0	2204755.0	0.238664	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

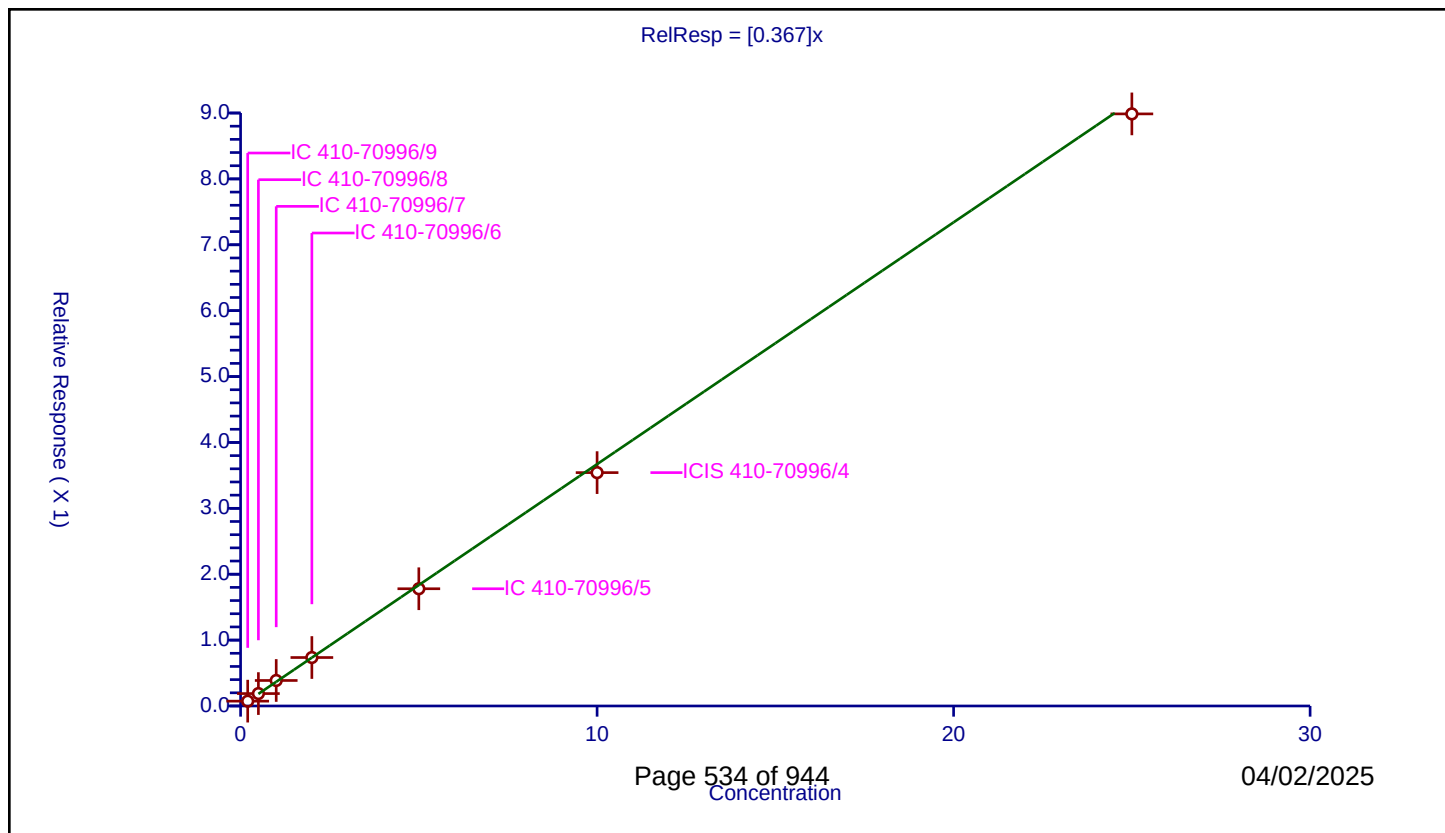
Curve Coefficients

Intercept: 0
Slope: 0.367

Error Coefficients

Standard Error: 905000
Relative Standard Error: 3.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.073586	10.0	2204755.0	0.367932	Y
2	IC 410-70996/8	0.5	0.188449	10.0	2189287.0	0.376899	Y
3	IC 410-70996/7	1.0	0.387011	10.0	2211412.0	0.387011	Y
4	IC 410-70996/6	2.0	0.735762	10.0	2210035.0	0.367881	Y
5	IC 410-70996/5	5.0	1.779584	10.0	2225560.0	0.355917	Y
6	ICIS 410-70996/4	10.0	3.541923	10.0	2246480.0	0.354192	Y
7	IC 410-70996/3	25.0	8.986846	10.0	2249974.0	0.359474	Y



Calibration

/ Cyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

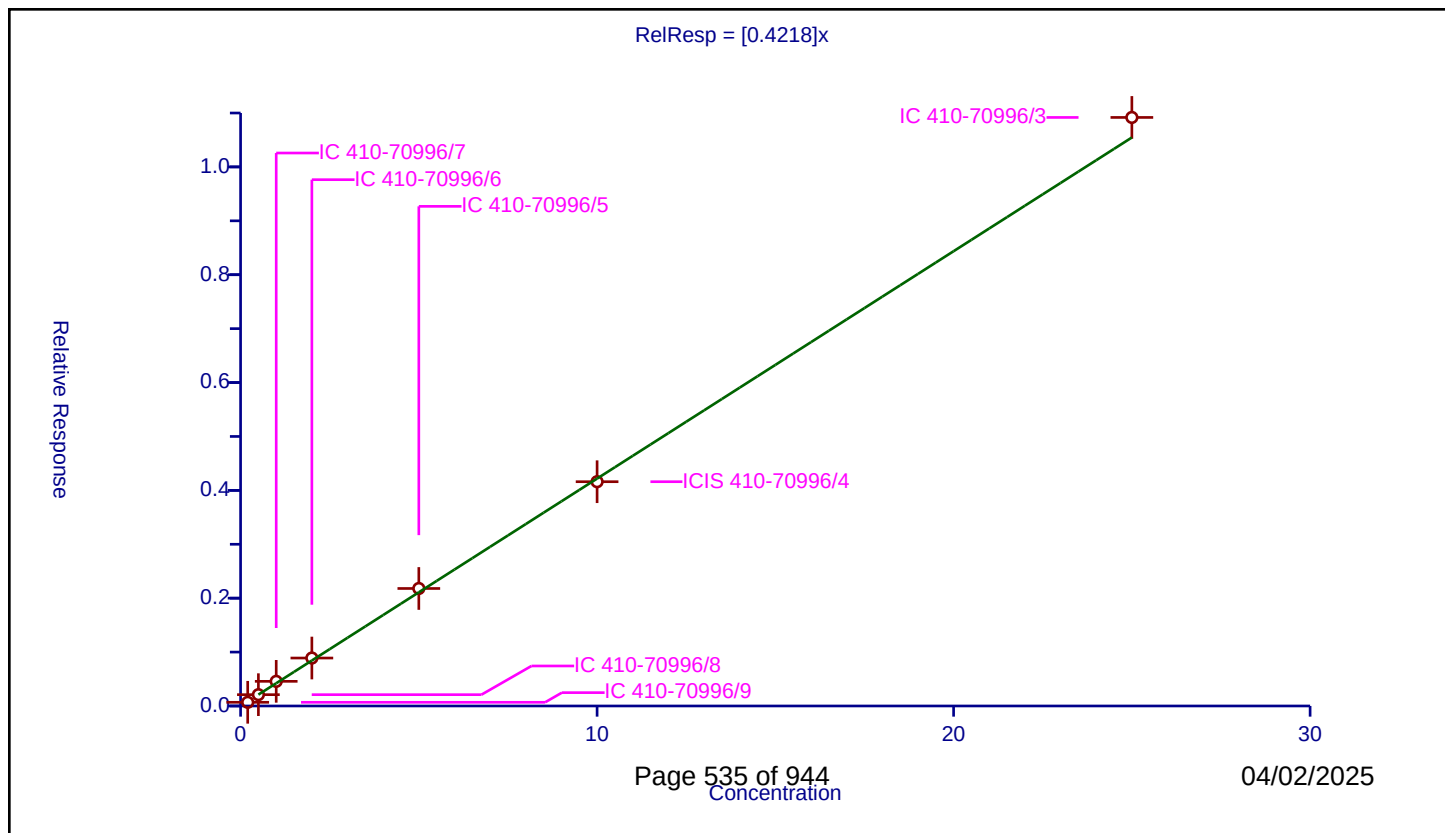
Curve Coefficients

Intercept: 0
Slope: 0.4218

Error Coefficients

Standard Error: 1100000
Relative Standard Error: 9.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.068398	10.0	2204755.0	0.341988	Y
2	IC 410-70996/8	0.5	0.209968	10.0	2189287.0	0.419936	Y
3	IC 410-70996/7	1.0	0.457278	10.0	2211412.0	0.457278	Y
4	IC 410-70996/6	2.0	0.889705	10.0	2210035.0	0.444853	Y
5	IC 410-70996/5	5.0	2.179874	10.0	2225560.0	0.435975	Y
6	ICIS 410-70996/4	10.0	4.160714	10.0	2246480.0	0.416071	Y
7	IC 410-70996/3	25.0	10.917873	10.0	2249974.0	0.436715	Y



Calibration

/ Carbon tetrachloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

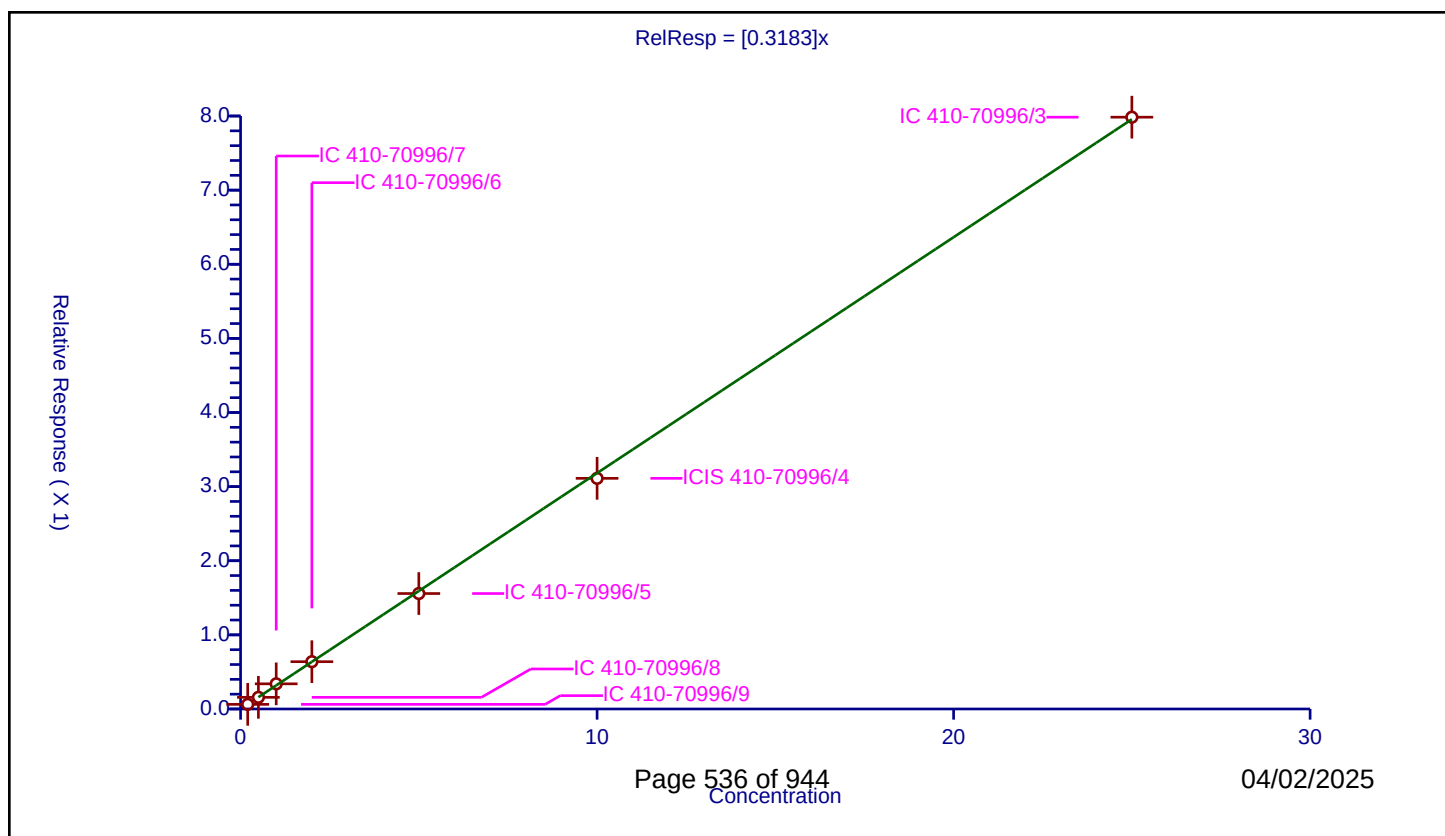
Curve Coefficients

Intercept: 0
 Slope: 0.3183

Error Coefficients

Standard Error: 802000
 Relative Standard Error: 3.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.062465	10.0	2204755.0	0.312325	Y
2	IC 410-70996/8	0.5	0.157385	10.0	2189287.0	0.314769	Y
3	IC 410-70996/7	1.0	0.339588	10.0	2211412.0	0.339588	Y
4	IC 410-70996/6	2.0	0.638035	10.0	2210035.0	0.319018	Y
5	IC 410-70996/5	5.0	1.557612	10.0	2225560.0	0.311522	Y
6	ICIS 410-70996/4	10.0	3.111735	10.0	2246480.0	0.311173	Y
7	IC 410-70996/3	25.0	7.98407	10.0	2249974.0	0.319363	Y



Calibration

/ 1,1-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

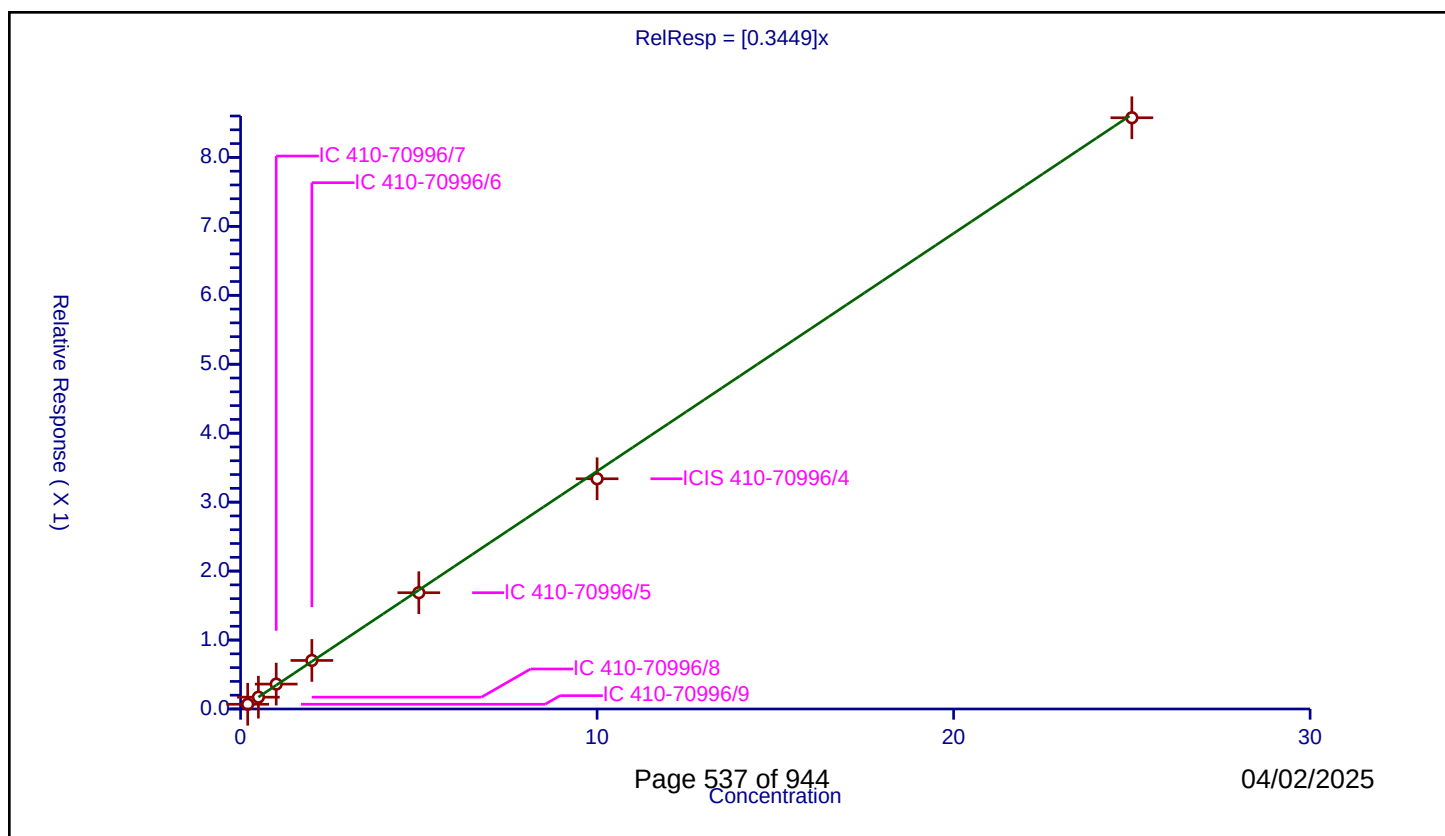
Curve Coefficients

Intercept: 0
Slope: 0.3449

Error Coefficients

Standard Error: 862000
Relative Standard Error: 2.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.068819	10.0	2204755.0	0.344097	Y
2	IC 410-70996/8	0.5	0.171444	10.0	2189287.0	0.342888	Y
3	IC 410-70996/7	1.0	0.360996	10.0	2211412.0	0.360996	Y
4	IC 410-70996/6	2.0	0.704043	10.0	2210035.0	0.352022	Y
5	IC 410-70996/5	5.0	1.686394	10.0	2225560.0	0.337279	Y
6	ICIS 410-70996/4	10.0	3.339086	10.0	2246480.0	0.333909	Y
7	IC 410-70996/3	25.0	8.574966	10.0	2249974.0	0.342999	Y



Calibration

/ Isobutyl alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

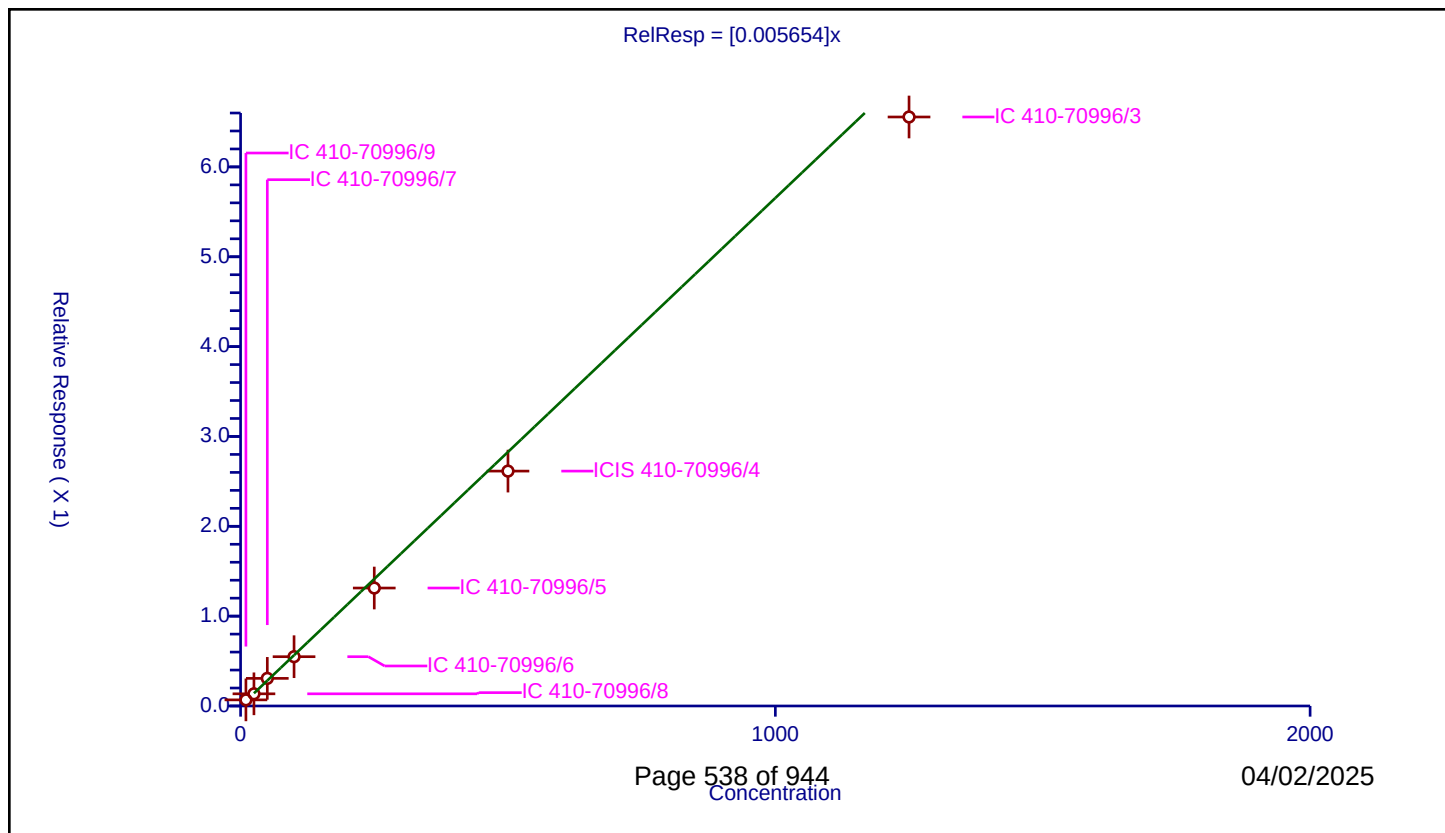
Curve Coefficients

Intercept: 0
Slope: 0.005654

Error Coefficients

Standard Error: 662000
Relative Standard Error: 10.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	10.0	0.068026	10.0	2204755.0	0.006803	Y
2	IC 410-70996/8	25.0	0.135405	10.0	2189287.0	0.005416	Y
3	IC 410-70996/7	50.0	0.307423	10.0	2211412.0	0.006148	Y
4	IC 410-70996/6	100.0	0.548711	10.0	2210035.0	0.005487	Y
5	IC 410-70996/5	250.0	1.313072	10.0	2225560.0	0.005252	Y
6	ICIS 410-70996/4	500.0	2.614308	10.0	2246480.0	0.005229	Y
7	IC 410-70996/3	1250.0	6.55588	10.0	2249974.0	0.005245	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

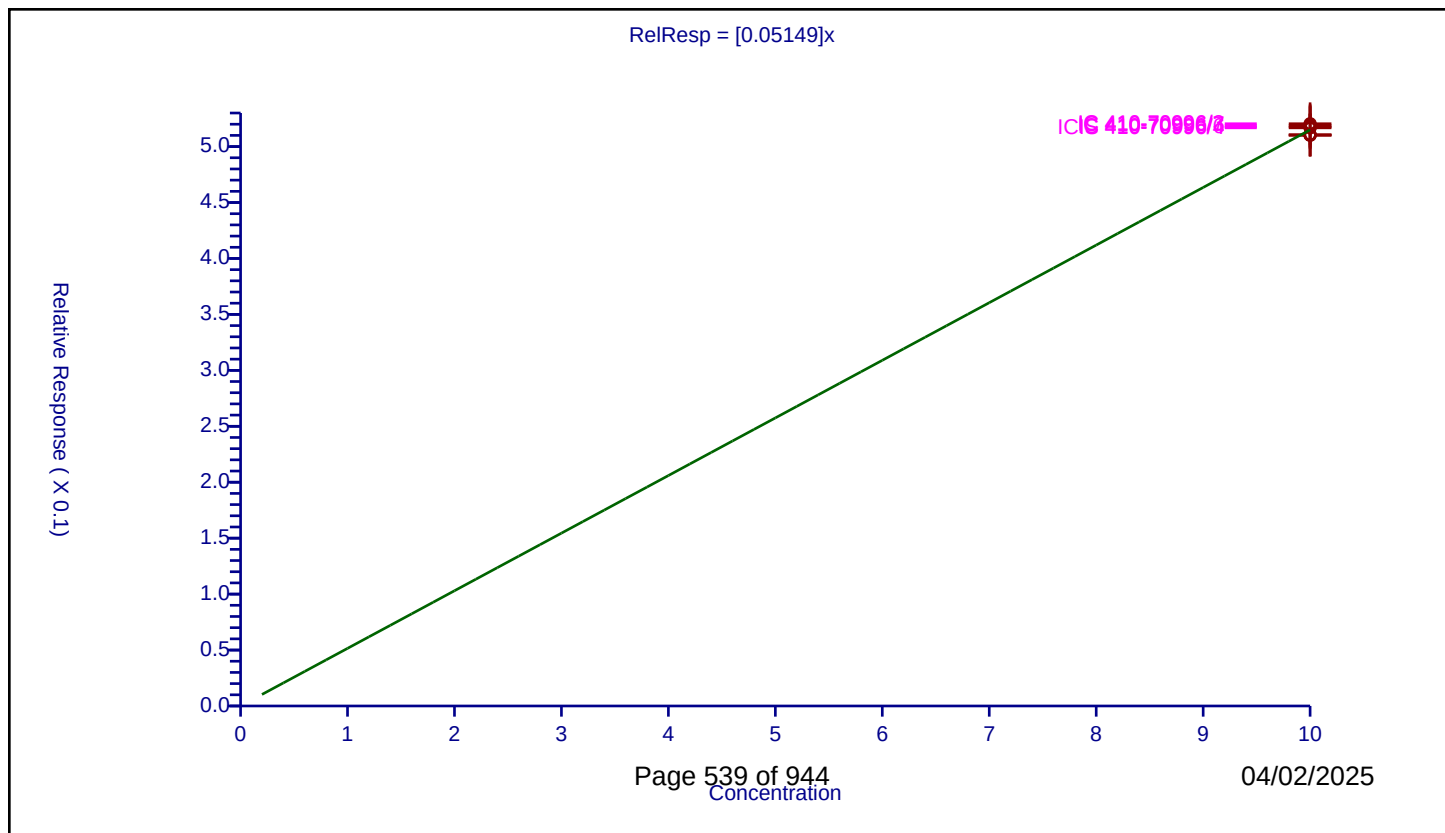
Curve Coefficients

Intercept: 0
 Slope: 0.05149

Error Coefficients

Standard Error: 123000
 Relative Standard Error: 0.9
 Correlation Coefficient: NA
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/3	10.0	0.520415	10.0	2249974.0	0.052041	Y
2	ICIS 410-70996/4	10.0	0.516737	10.0	2246480.0	0.051674	Y
3	IC 410-70996/5	10.0	0.51055	10.0	2225560.0	0.051055	Y
4	IC 410-70996/6	10.0	0.517707	10.0	2210035.0	0.051771	Y
5	IC 410-70996/7	10.0	0.518773	10.0	2211412.0	0.051877	Y
6	IC 410-70996/8	10.0	0.510143	10.0	2189287.0	0.051014	Y
7	IC 410-70996/9	10.0	0.510311	10.0	2204755.0	0.051031	Y



Calibration

/ Benzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

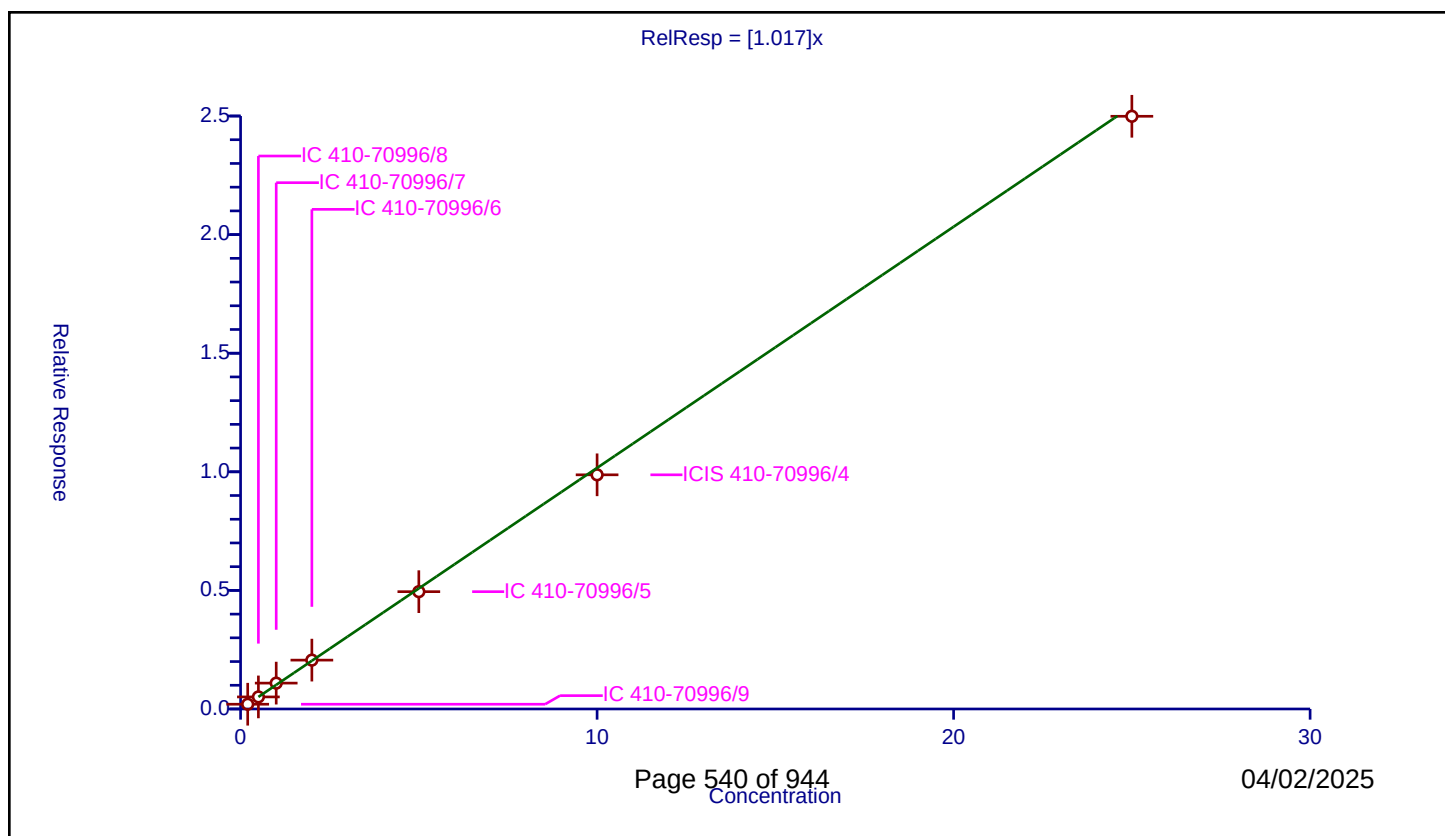
Curve Coefficients

Intercept: 0
Slope: 1.017

Error Coefficients

Standard Error: 2520000
Relative Standard Error: 3.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.20034	10.0	2204755.0	1.001699	Y
2	IC 410-70996/8	0.5	0.508599	10.0	2189287.0	1.017199	Y
3	IC 410-70996/7	1.0	1.090543	10.0	2211412.0	1.090543	Y
4	IC 410-70996/6	2.0	2.060126	10.0	2210035.0	1.030063	Y
5	IC 410-70996/5	5.0	4.946481	10.0	2225560.0	0.989296	Y
6	ICIS 410-70996/4	10.0	9.87338	10.0	2246480.0	0.987338	Y
7	IC 410-70996/3	25.0	24.988924	10.0	2249974.0	0.999557	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

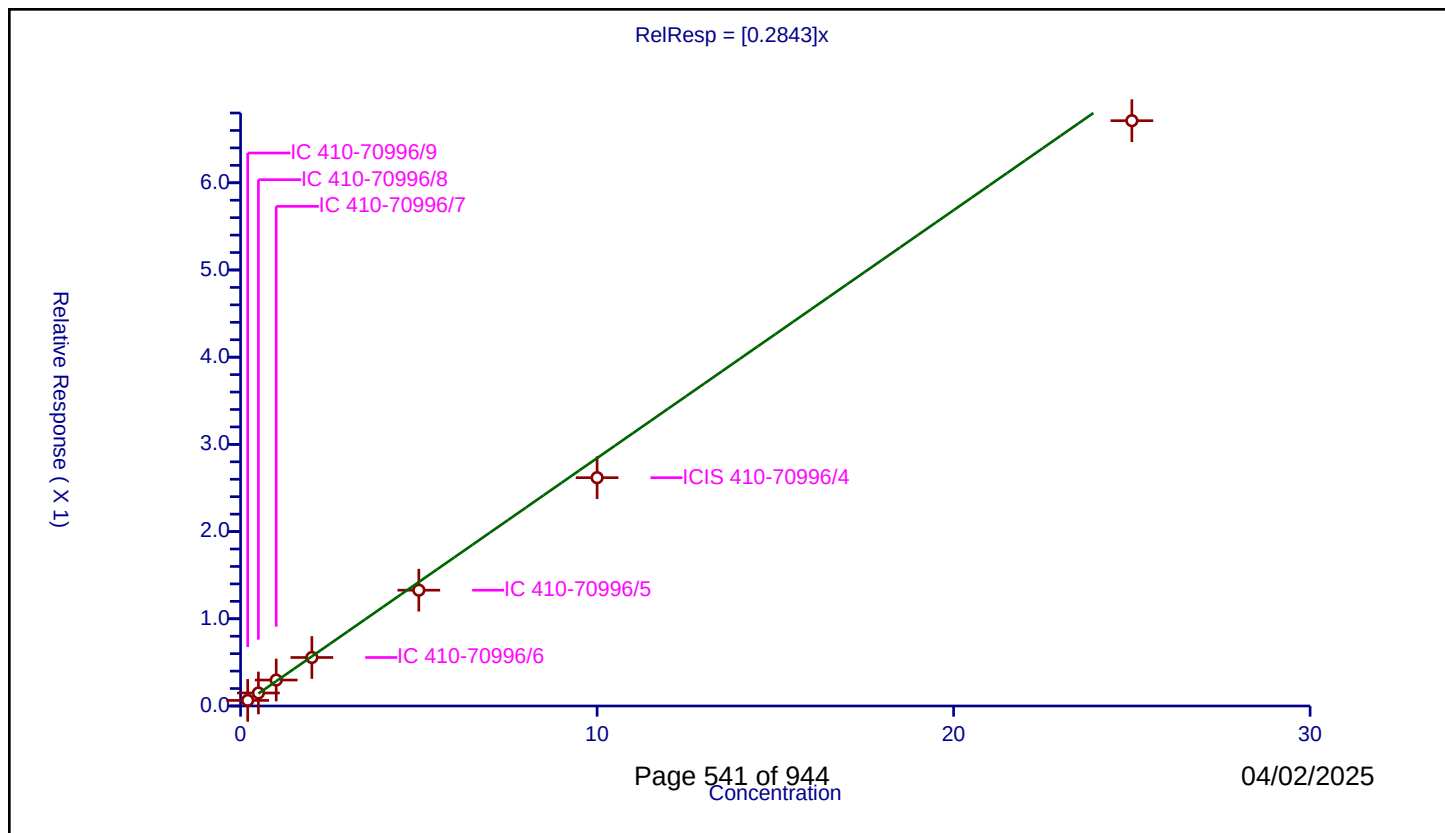
Curve Coefficients

Intercept: 0
 Slope: 0.2843

Error Coefficients

Standard Error: 675000
 Relative Standard Error: 7.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.06408	10.0	2204755.0	0.320398	Y
2	IC 410-70996/8	0.5	0.148989	10.0	2189287.0	0.297978	Y
3	IC 410-70996/7	1.0	0.297633	10.0	2211412.0	0.297633	Y
4	IC 410-70996/6	2.0	0.556032	10.0	2210035.0	0.278016	Y
5	IC 410-70996/5	5.0	1.327976	10.0	2225560.0	0.265595	Y
6	ICIS 410-70996/4	10.0	2.618172	10.0	2246480.0	0.261817	Y
7	IC 410-70996/3	25.0	6.712069	10.0	2249974.0	0.268483	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

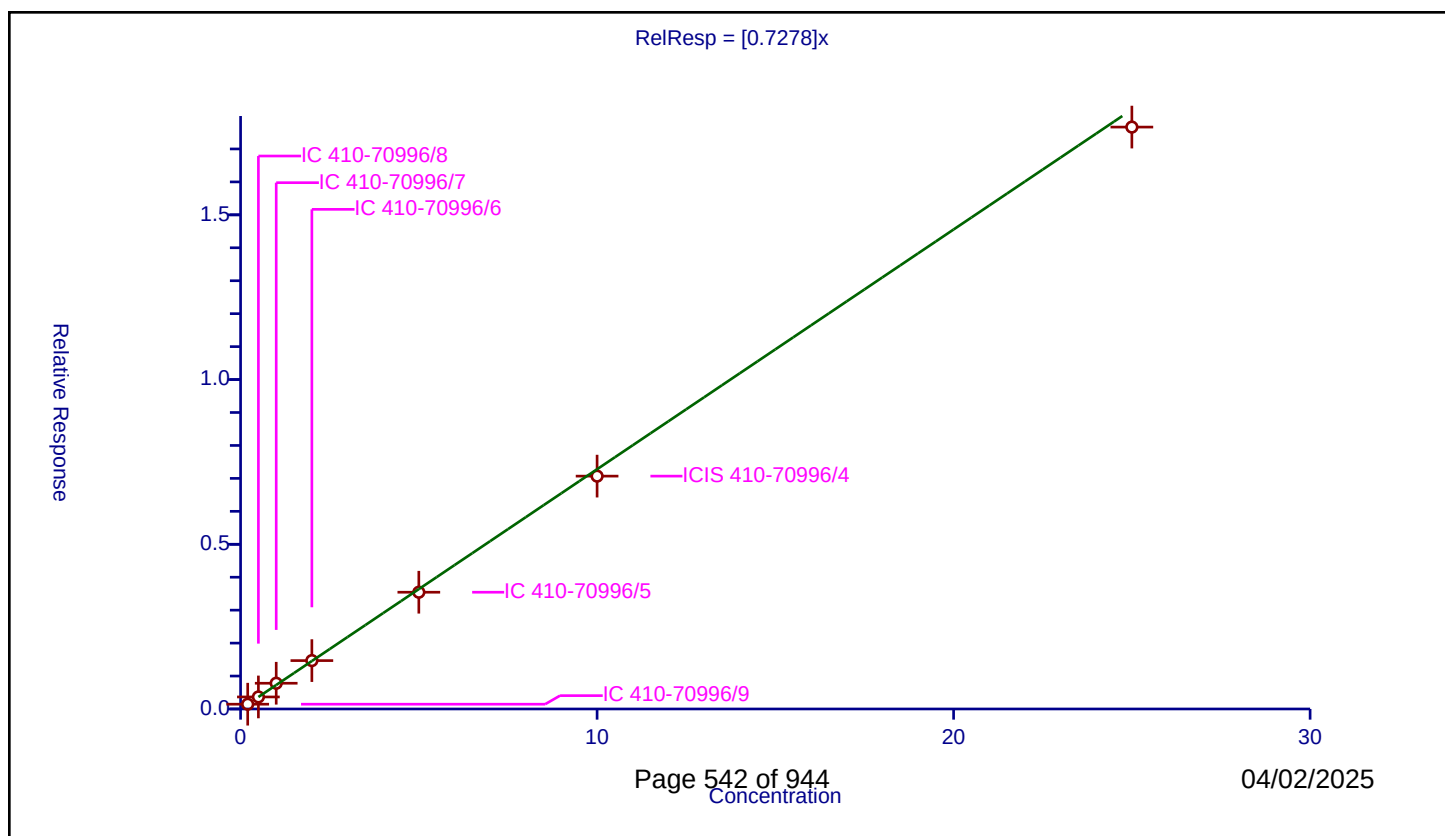
Curve Coefficients

Intercept: 0
Slope: 0.7278

Error Coefficients

Standard Error: 1780000
Relative Standard Error: 3.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.145032	10.0	2204755.0	0.72516	Y
2	IC 410-70996/8	0.5	0.365343	10.0	2189287.0	0.730685	Y
3	IC 410-70996/7	1.0	0.781795	10.0	2211412.0	0.781795	Y
4	IC 410-70996/6	2.0	1.46909	10.0	2210035.0	0.734545	Y
5	IC 410-70996/5	5.0	3.544214	10.0	2225560.0	0.708843	Y
6	ICIS 410-70996/4	10.0	7.068917	10.0	2246480.0	0.706892	Y
7	IC 410-70996/3	25.0	17.663964	10.0	2249974.0	0.706559	Y



Calibration

/ n-Heptane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

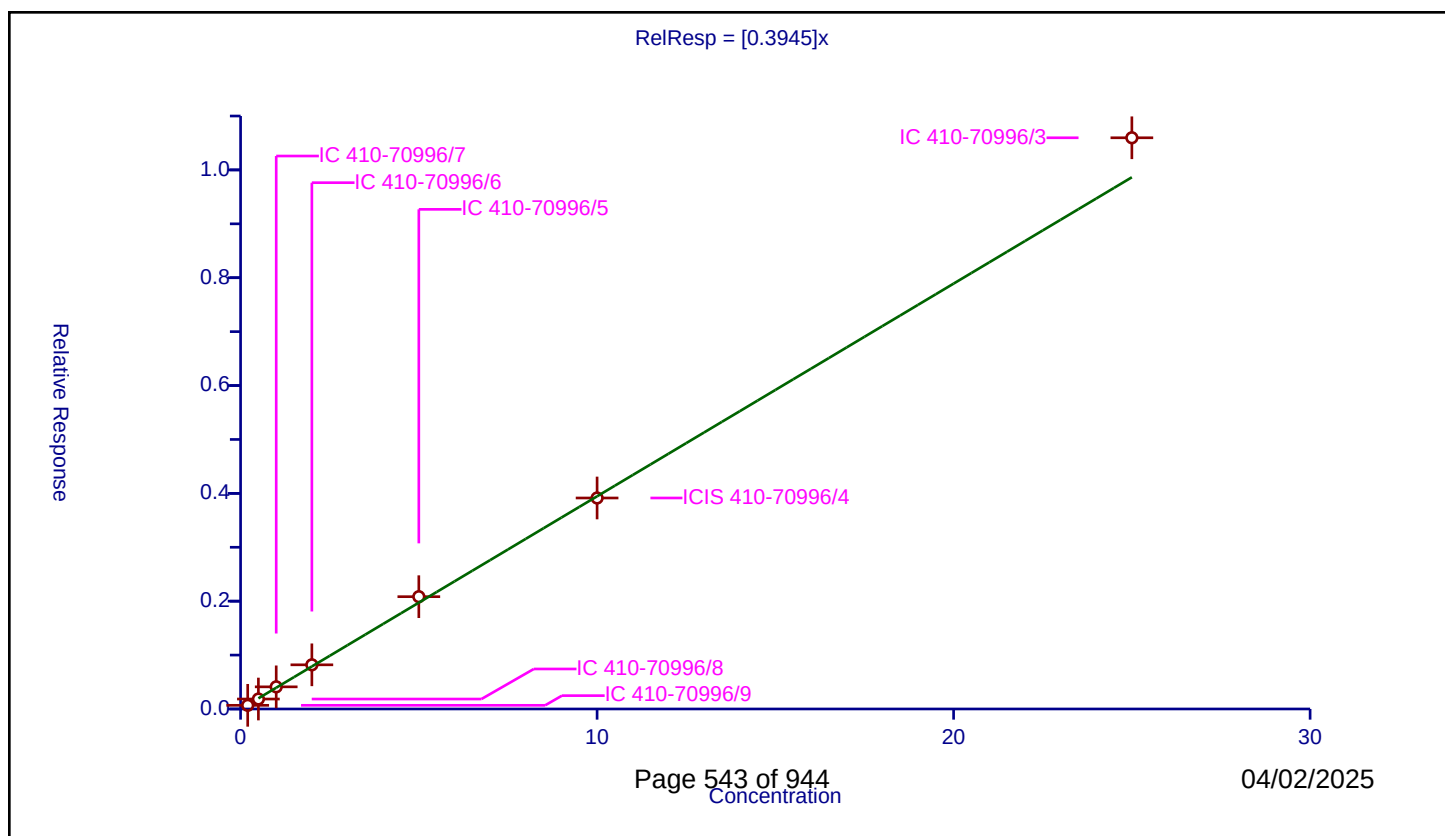
Curve Coefficients

Intercept: 0
Slope: 0.3945

Error Coefficients

Standard Error: 1060000
Relative Standard Error: 7.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.067971	10.0	2204755.0	0.339856	Y
2	IC 410-70996/8	0.5	0.184763	10.0	2189287.0	0.369527	Y
3	IC 410-70996/7	1.0	0.41076	10.0	2211412.0	0.41076	Y
4	IC 410-70996/6	2.0	0.819322	10.0	2210035.0	0.409661	Y
5	IC 410-70996/5	5.0	2.083574	10.0	2225560.0	0.416715	Y
6	ICIS 410-70996/4	10.0	3.91403	10.0	2246480.0	0.391403	Y
7	IC 410-70996/3	25.0	10.59634	10.0	2249974.0	0.423854	Y



Calibration

/ n-Butanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

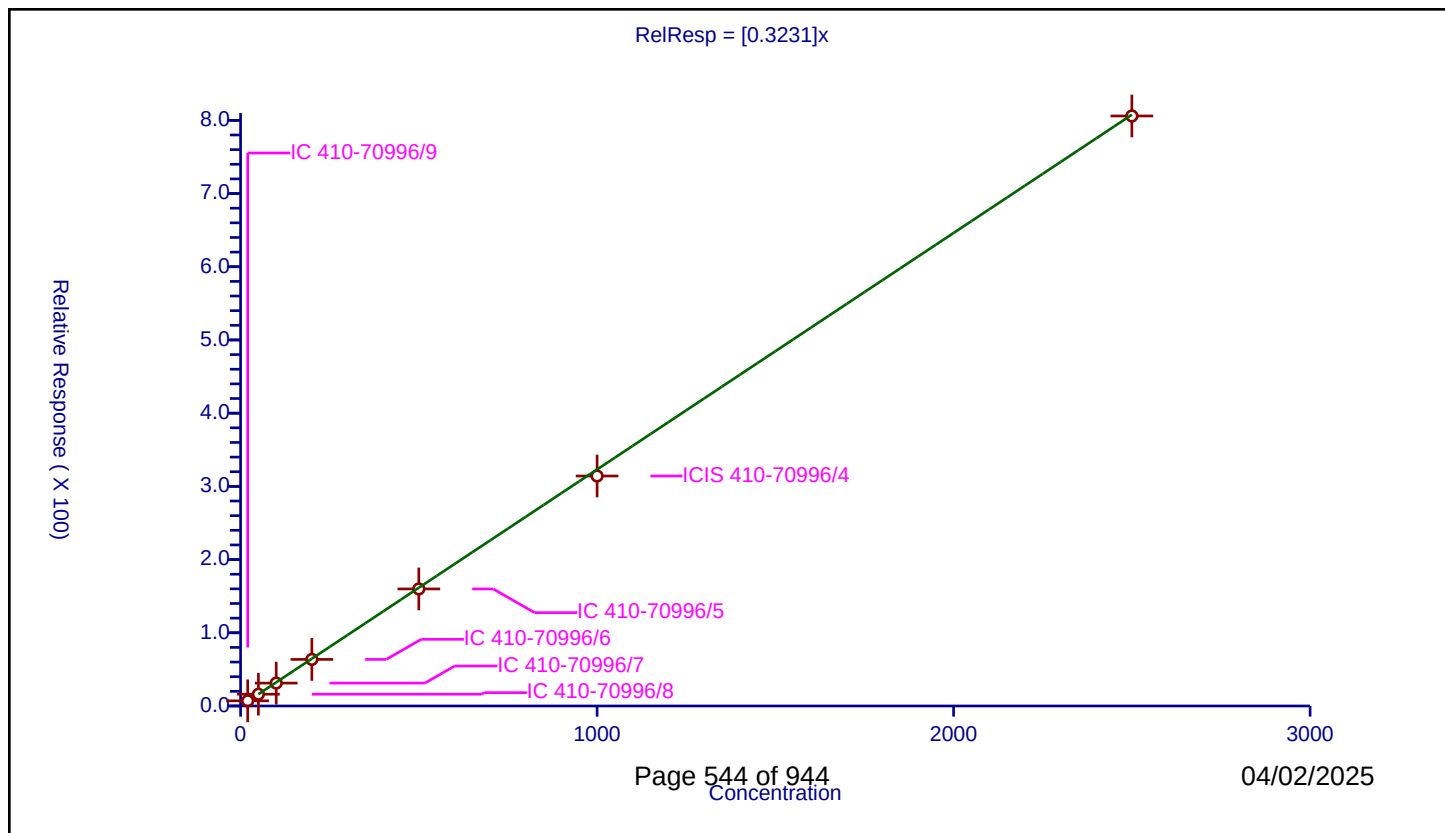
Curve Coefficients

Intercept: 0
Slope: 0.3231

Error Coefficients

Standard Error: 1290000
Relative Standard Error: 4.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	20.0	7.052687	50.0	184731.0	0.352634	Y
2	IC 410-70996/8	50.0	16.076115	50.0	195834.0	0.321522	Y
3	IC 410-70996/7	100.0	31.286095	50.0	201206.0	0.312861	Y
4	IC 410-70996/6	200.0	63.630081	50.0	195329.0	0.31815	Y
5	IC 410-70996/5	500.0	159.910659	50.0	183343.0	0.319821	Y
6	ICIS 410-70996/4	1000.0	314.167303	50.0	186094.0	0.314167	Y
7	IC 410-70996/3	2500.0	805.966482	50.0	177877.0	0.322387	Y



Calibration

/ Trichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

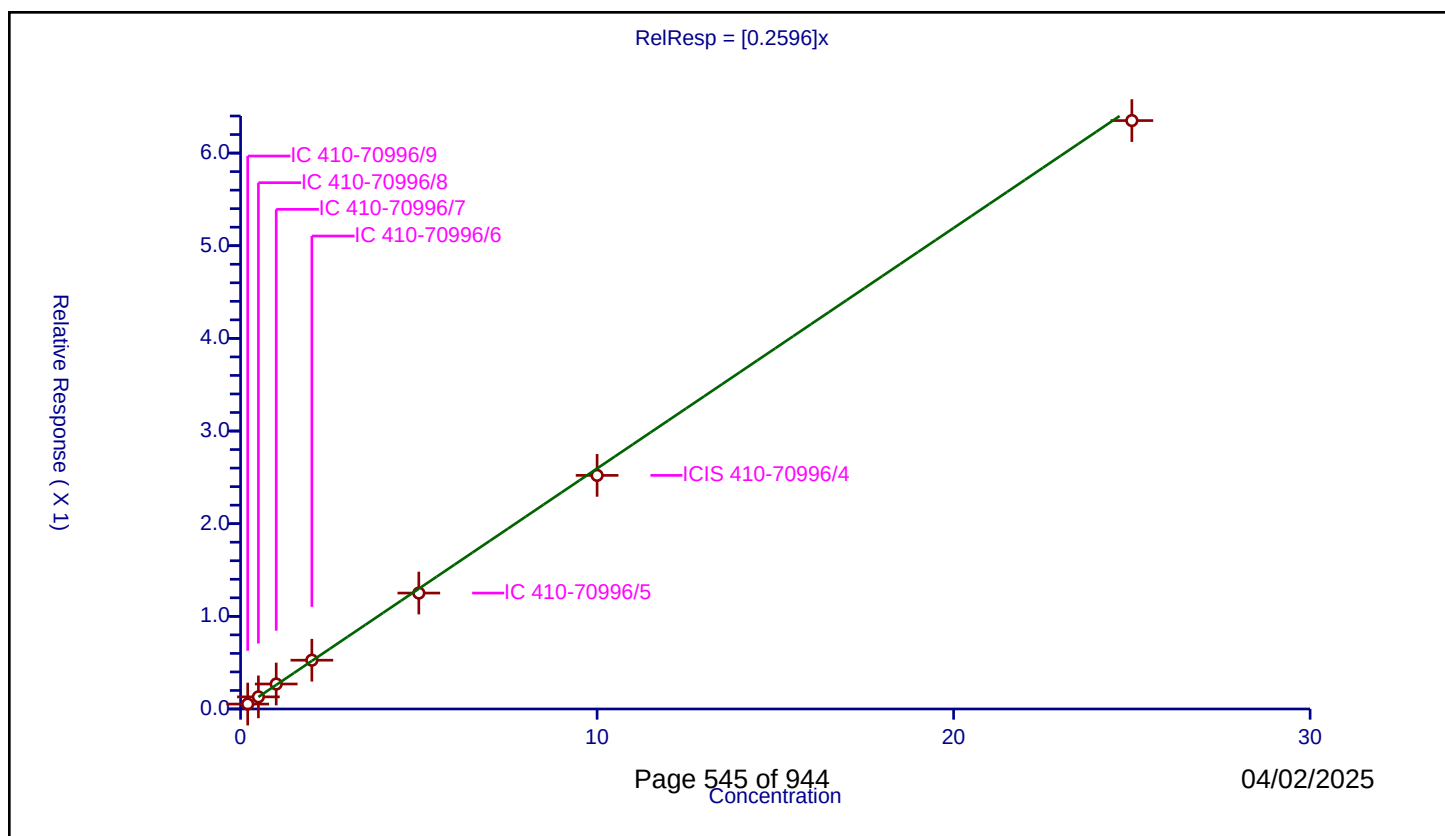
Curve Coefficients

Intercept: 0
Slope: 0.2596

Error Coefficients

Standard Error: 640000
Relative Standard Error: 2.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.053171	10.0	2204755.0	0.265857	Y
2	IC 410-70996/8	0.5	0.130928	10.0	2189287.0	0.261857	Y
3	IC 410-70996/7	1.0	0.269502	10.0	2211412.0	0.269502	Y
4	IC 410-70996/6	2.0	0.526612	10.0	2210035.0	0.263306	Y
5	IC 410-70996/5	5.0	1.251276	10.0	2225560.0	0.250255	Y
6	ICIS 410-70996/4	10.0	2.521393	10.0	2246480.0	0.252139	Y
7	IC 410-70996/3	25.0	6.350891	10.0	2249974.0	0.254036	Y



Calibration

/ Methylcyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

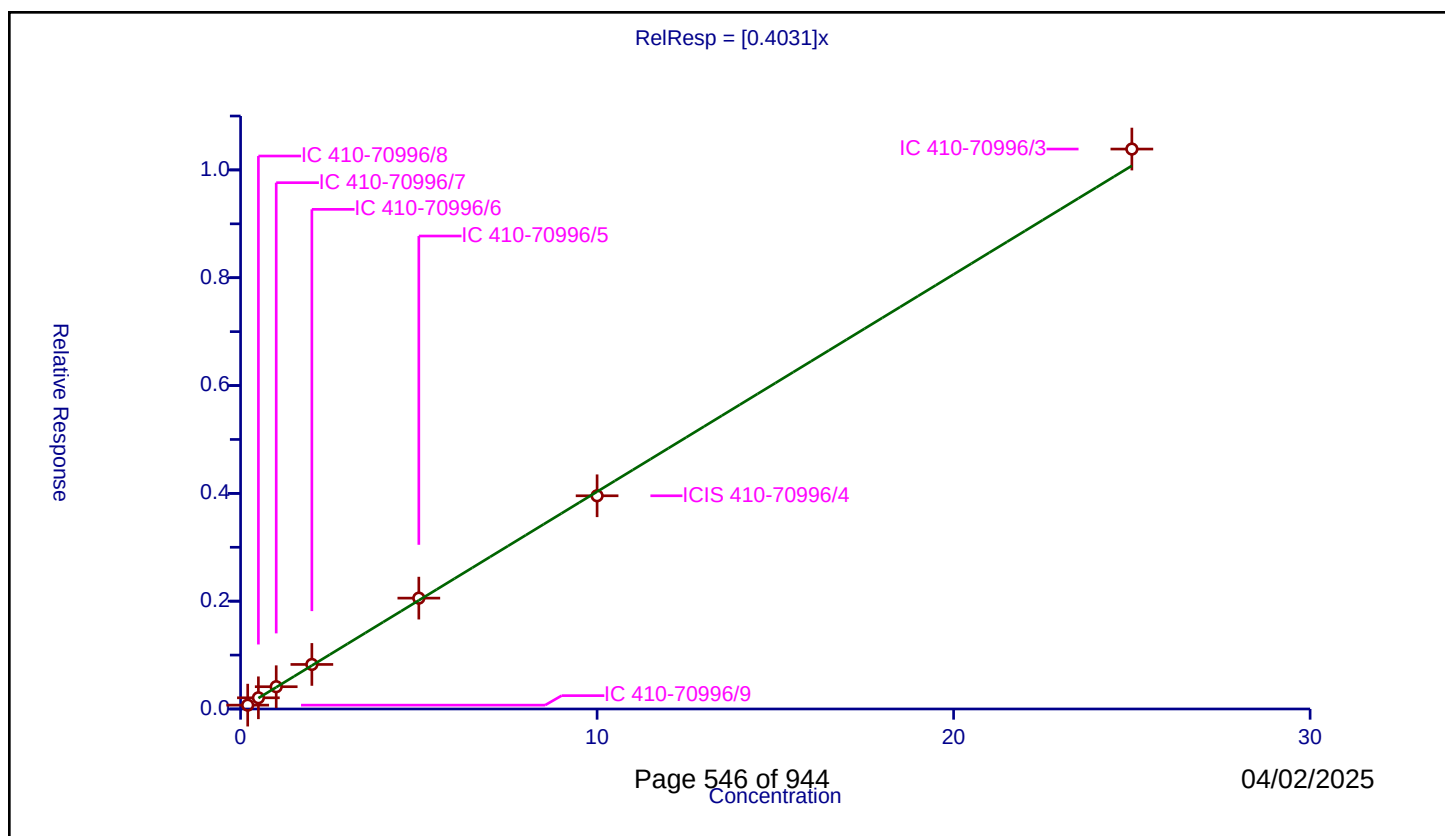
Curve Coefficients

Intercept: 0
Slope: 0.4031

Error Coefficients

Standard Error: 1040000
Relative Standard Error: 5.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.071523	10.0	2204755.0	0.357613	Y
2	IC 410-70996/8	0.5	0.207711	10.0	2189287.0	0.415423	Y
3	IC 410-70996/7	1.0	0.413225	10.0	2211412.0	0.413225	Y
4	IC 410-70996/6	2.0	0.82624	10.0	2210035.0	0.41312	Y
5	IC 410-70996/5	5.0	2.056512	10.0	2225560.0	0.411302	Y
6	ICIS 410-70996/4	10.0	3.955152	10.0	2246480.0	0.395515	Y
7	IC 410-70996/3	25.0	10.387271	10.0	2249974.0	0.415491	Y



Calibration

/ 1,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

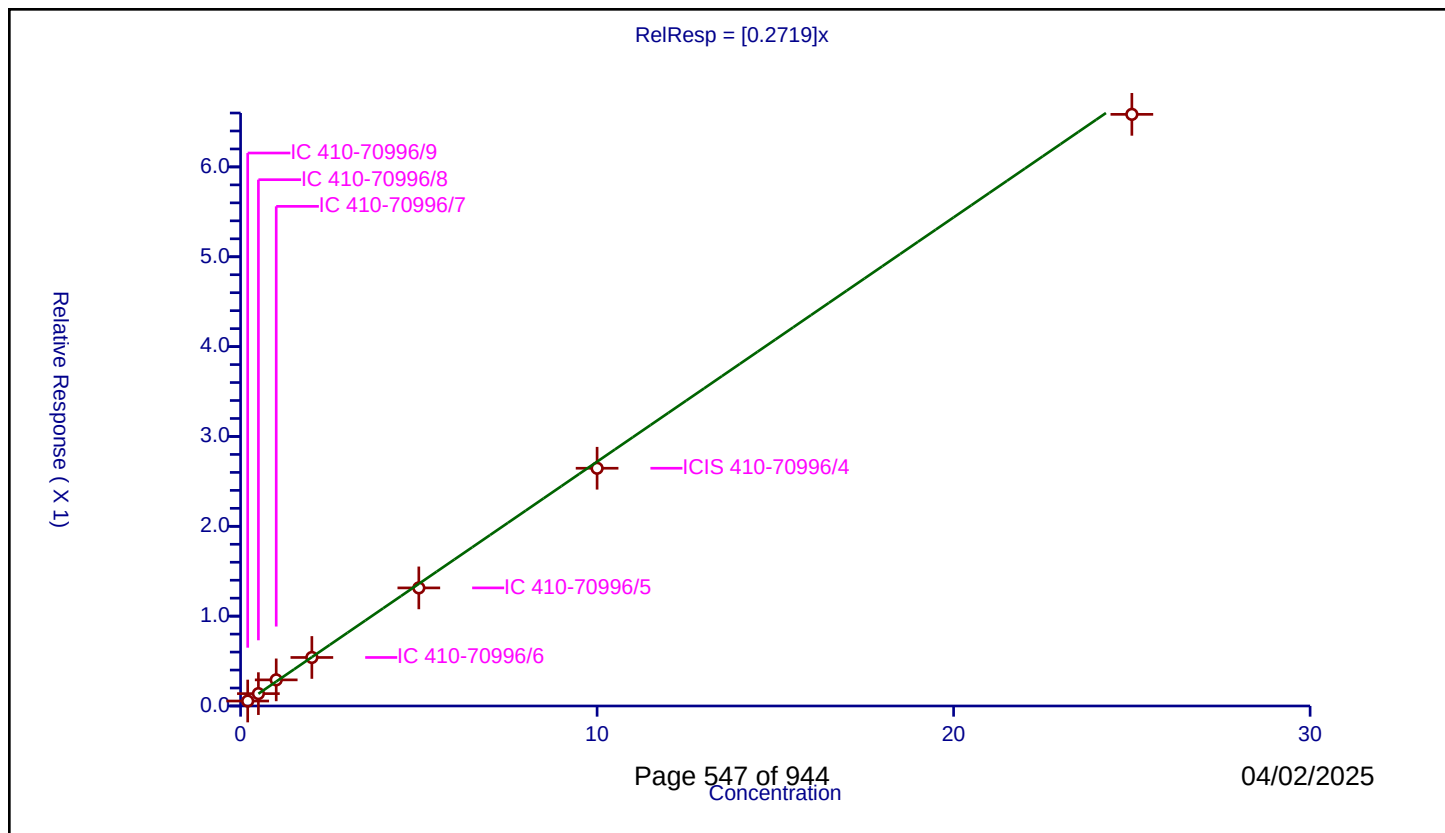
Curve Coefficients

Intercept: 0
Slope: 0.2719

Error Coefficients

Standard Error: 665000
Relative Standard Error: 3.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.055285	10.0	2204755.0	0.276425	Y
2	IC 410-70996/8	0.5	0.137565	10.0	2189287.0	0.275131	Y
3	IC 410-70996/7	1.0	0.290855	10.0	2211412.0	0.290855	Y
4	IC 410-70996/6	2.0	0.540114	10.0	2210035.0	0.270057	Y
5	IC 410-70996/5	5.0	1.314352	10.0	2225560.0	0.26287	Y
6	ICIS 410-70996/4	10.0	2.646189	10.0	2246480.0	0.264619	Y
7	IC 410-70996/3	25.0	6.585227	10.0	2249974.0	0.263409	Y



Calibration

/ 1,4-Dioxane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

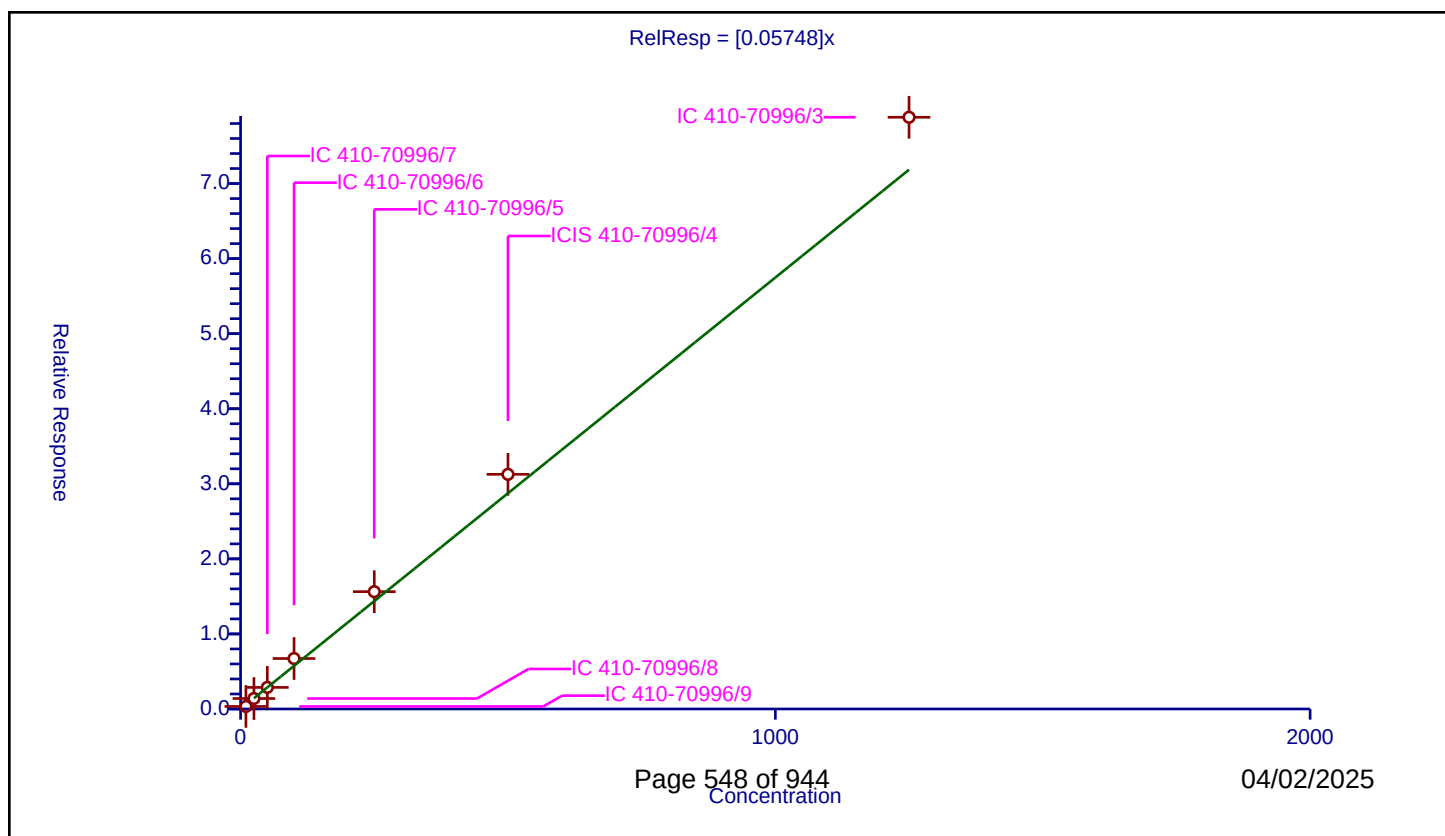
Curve Coefficients

Intercept: 0
Slope: 0.05748

Error Coefficients

Standard Error: 127000
Relative Standard Error: 19.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.960

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	10.0	0.337788	50.0	184731.0	0.033779	Y
2	IC 410-70996/8	25.0	1.393017	50.0	195834.0	0.055721	Y
3	IC 410-70996/7	50.0	2.87566	50.0	201206.0	0.057513	Y
4	IC 410-70996/6	100.0	6.724552	50.0	195329.0	0.067246	Y
5	IC 410-70996/5	250.0	15.62863	50.0	183343.0	0.062515	Y
6	ICIS 410-70996/4	500.0	31.260546	50.0	186094.0	0.062521	Y
7	IC 410-70996/3	1250.0	78.831721	50.0	177877.0	0.063065	Y



Calibration

/ Methyl methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

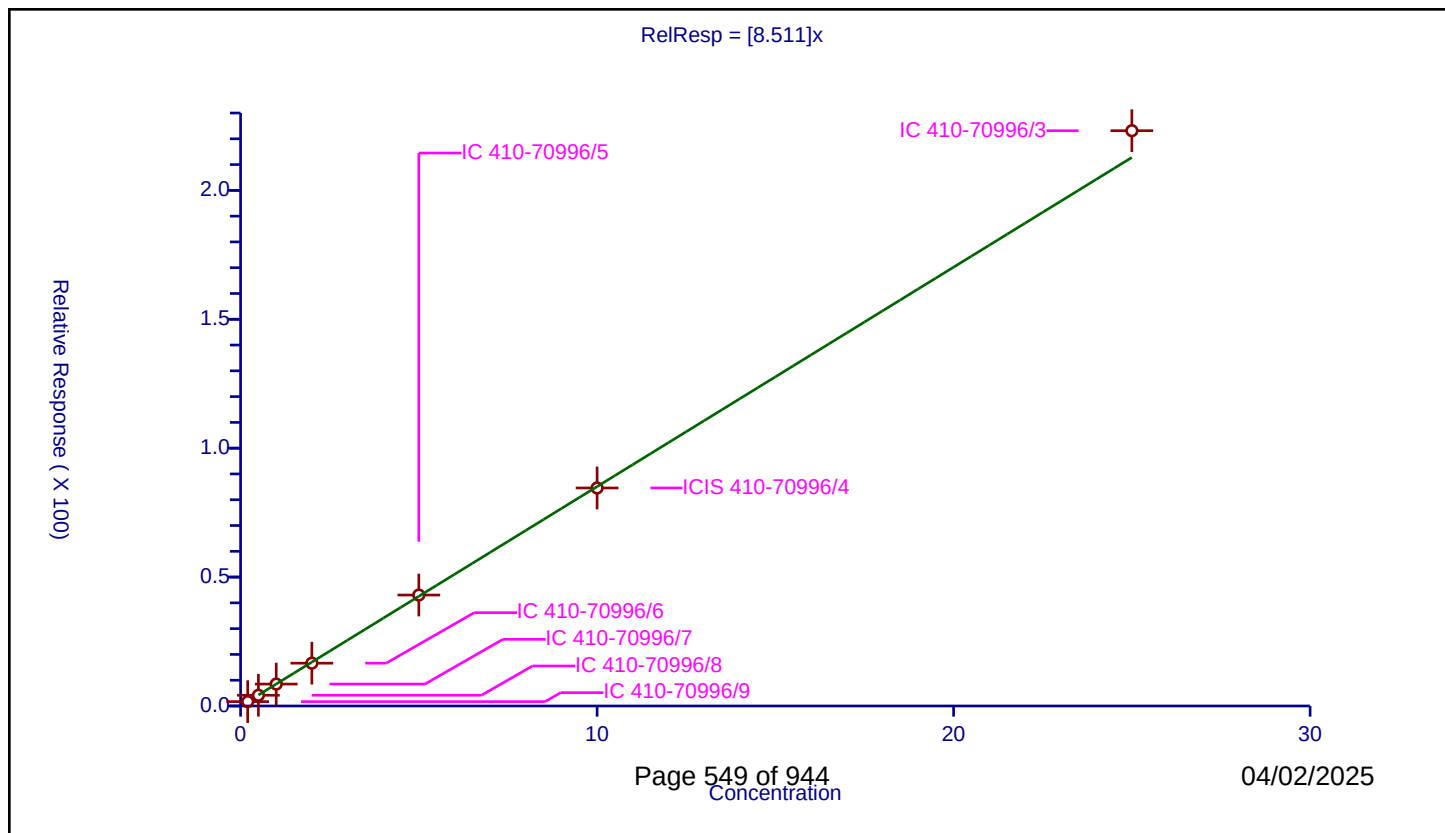
Curve Coefficients

Intercept: 0
 Slope: 8.511

Error Coefficients

Standard Error: 356000
 Relative Standard Error: 2.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	1.691108	50.0	184731.0	8.455538	Y
2	IC 410-70996/8	0.5	4.161943	50.0	195834.0	8.323887	Y
3	IC 410-70996/7	1.0	8.502232	50.0	201206.0	8.502232	Y
4	IC 410-70996/6	2.0	16.609669	50.0	195329.0	8.304834	Y
5	IC 410-70996/5	5.0	43.028368	50.0	183343.0	8.605674	Y
6	ICIS 410-70996/4	10.0	84.557535	50.0	186094.0	8.455754	Y
7	IC 410-70996/3	25.0	223.141272	50.0	177877.0	8.925651	Y



Calibration

/ Dibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

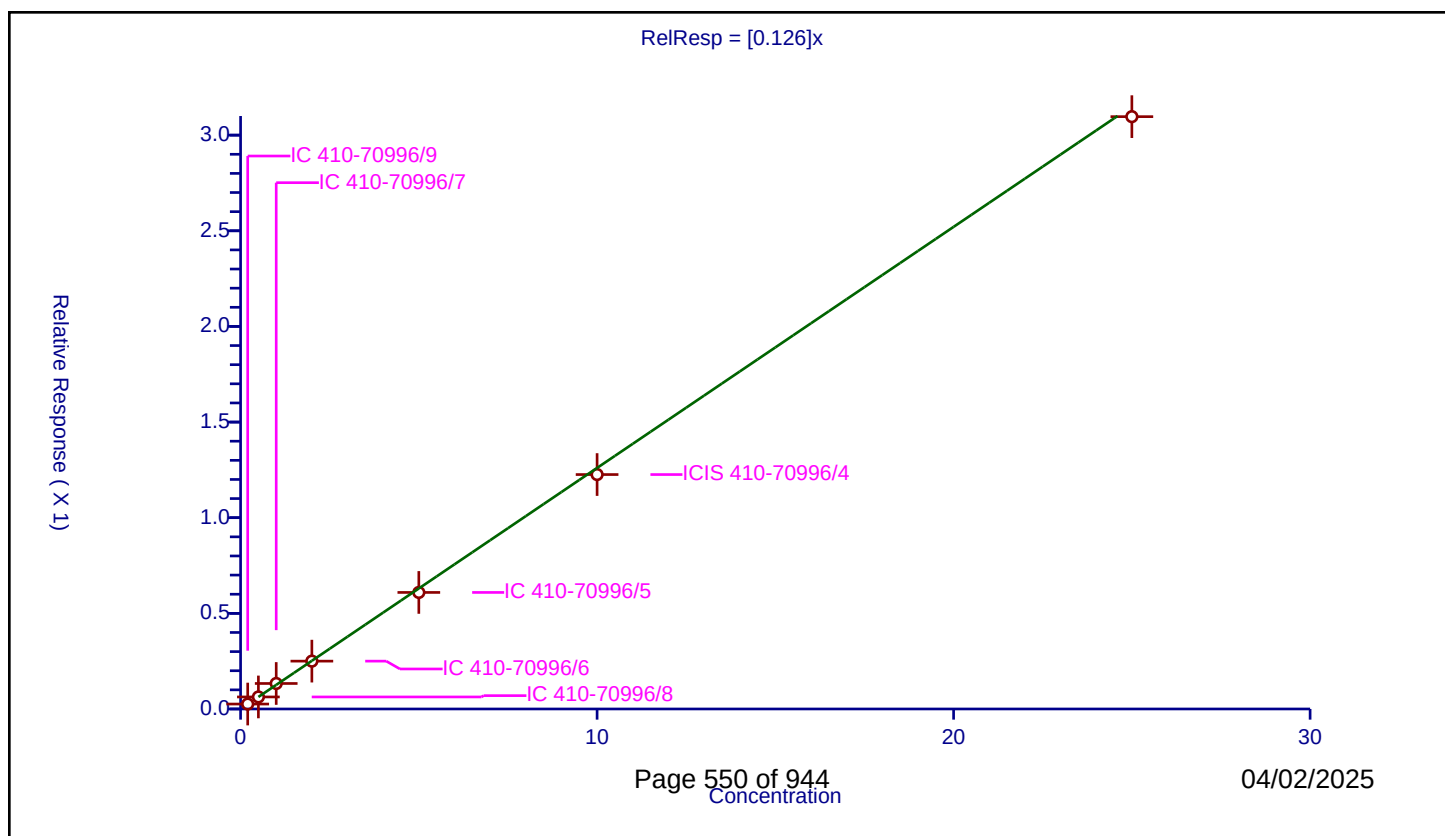
Curve Coefficients

Intercept: 0
Slope: 0.126

Error Coefficients

Standard Error: 312000
Relative Standard Error: 3.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.025926	10.0	2204755.0	0.129629	Y
2	IC 410-70996/8	0.5	0.062929	10.0	2189287.0	0.125858	Y
3	IC 410-70996/7	1.0	0.133286	10.0	2211412.0	0.133286	Y
4	IC 410-70996/6	2.0	0.25024	10.0	2210035.0	0.12512	Y
5	IC 410-70996/5	5.0	0.60924	10.0	2225560.0	0.121848	Y
6	ICIS 410-70996/4	10.0	1.225575	10.0	2246480.0	0.122558	Y
7	IC 410-70996/3	25.0	3.09668	10.0	2249974.0	0.123867	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

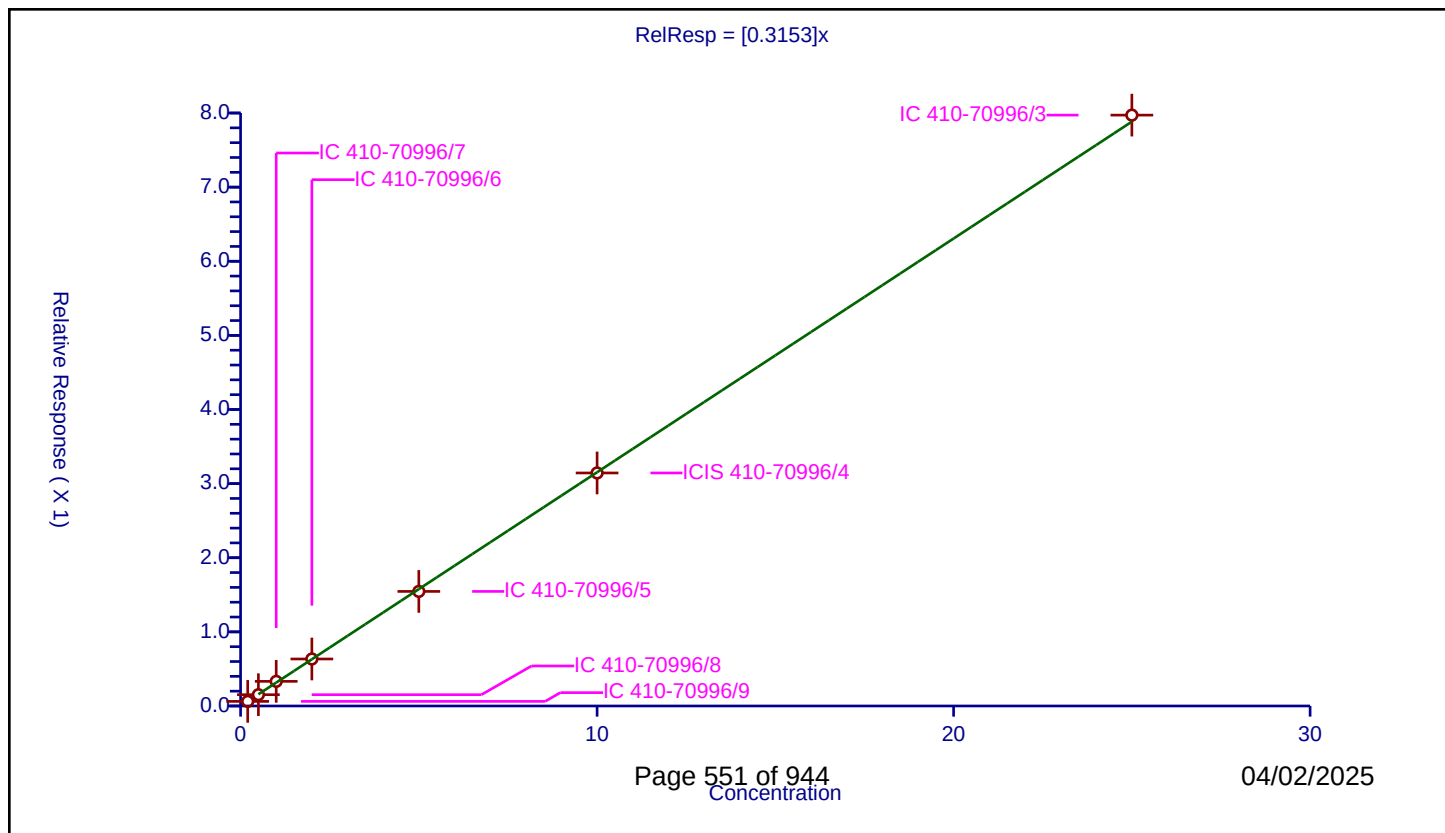
Curve Coefficients

Intercept: 0
 Slope: 0.3153

Error Coefficients

Standard Error: 802000
 Relative Standard Error: 2.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.062129	10.0	2204755.0	0.310647	Y
2	IC 410-70996/8	0.5	0.152525	10.0	2189287.0	0.305049	Y
3	IC 410-70996/7	1.0	0.332204	10.0	2211412.0	0.332204	Y
4	IC 410-70996/6	2.0	0.634153	10.0	2210035.0	0.317076	Y
5	IC 410-70996/5	5.0	1.545624	10.0	2225560.0	0.309125	Y
6	ICIS 410-70996/4	10.0	3.143829	10.0	2246480.0	0.314383	Y
7	IC 410-70996/3	25.0	7.971439	10.0	2249974.0	0.318858	Y



Calibration

/ 2-Nitropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

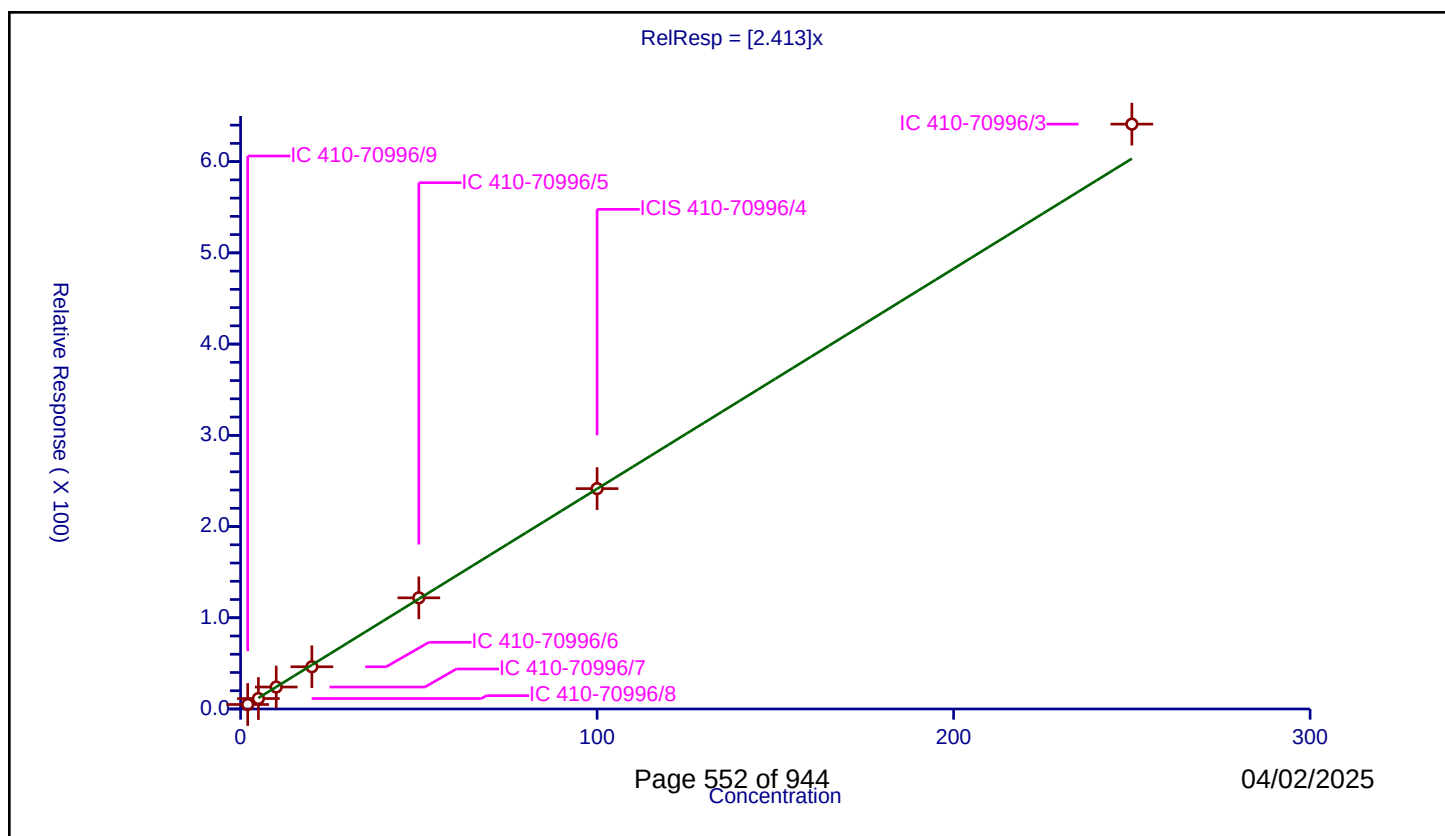
Curve Coefficients

Intercept: 0
Slope: 2.413

Error Coefficients

Standard Error: 1020000
Relative Standard Error: 3.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	2.0	4.923646	50.0	184731.0	2.461823	Y
2	IC 410-70996/8	5.0	11.454344	50.0	195834.0	2.290869	Y
3	IC 410-70996/7	10.0	24.079053	50.0	201206.0	2.407905	Y
4	IC 410-70996/6	20.0	46.278586	50.0	195329.0	2.313929	Y
5	IC 410-70996/5	50.0	121.859847	50.0	183343.0	2.437197	Y
6	ICIS 410-70996/4	100.0	241.561523	50.0	186094.0	2.415615	Y
7	IC 410-70996/3	250.0	641.125328	50.0	177877.0	2.564501	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

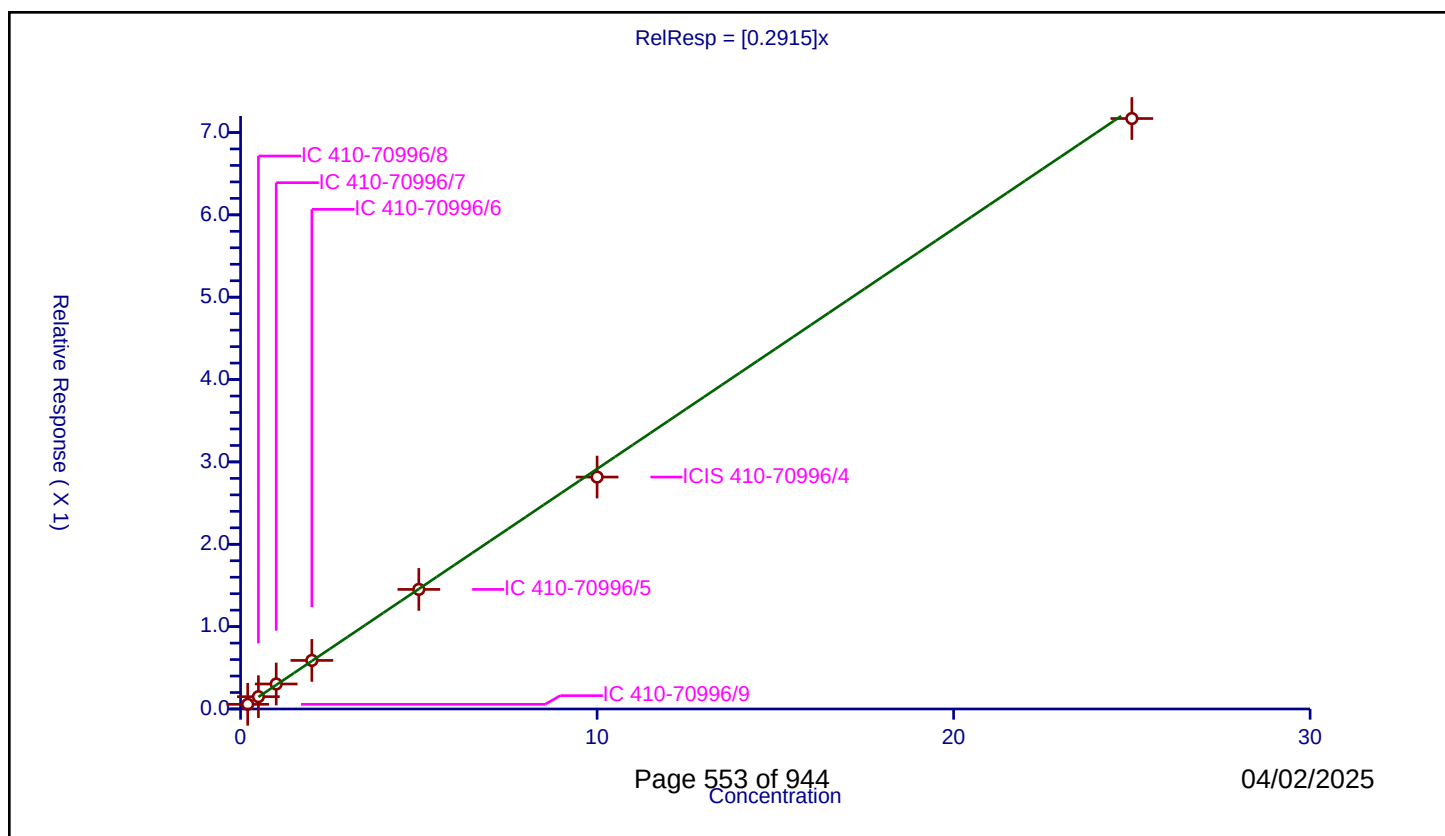
Curve Coefficients

Intercept: 0
 Slope: 0.2915

Error Coefficients

Standard Error: 722000
 Relative Standard Error: 2.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.056814	10.0	2204755.0	0.284068	Y
2	IC 410-70996/8	0.5	0.14951	10.0	2189287.0	0.29902	Y
3	IC 410-70996/7	1.0	0.303675	10.0	2211412.0	0.303675	Y
4	IC 410-70996/6	2.0	0.589715	10.0	2210035.0	0.294857	Y
5	IC 410-70996/5	5.0	1.452151	10.0	2225560.0	0.29043	Y
6	ICIS 410-70996/4	10.0	2.816219	10.0	2246480.0	0.281622	Y
7	IC 410-70996/3	25.0	7.169496	10.0	2249974.0	0.28678	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

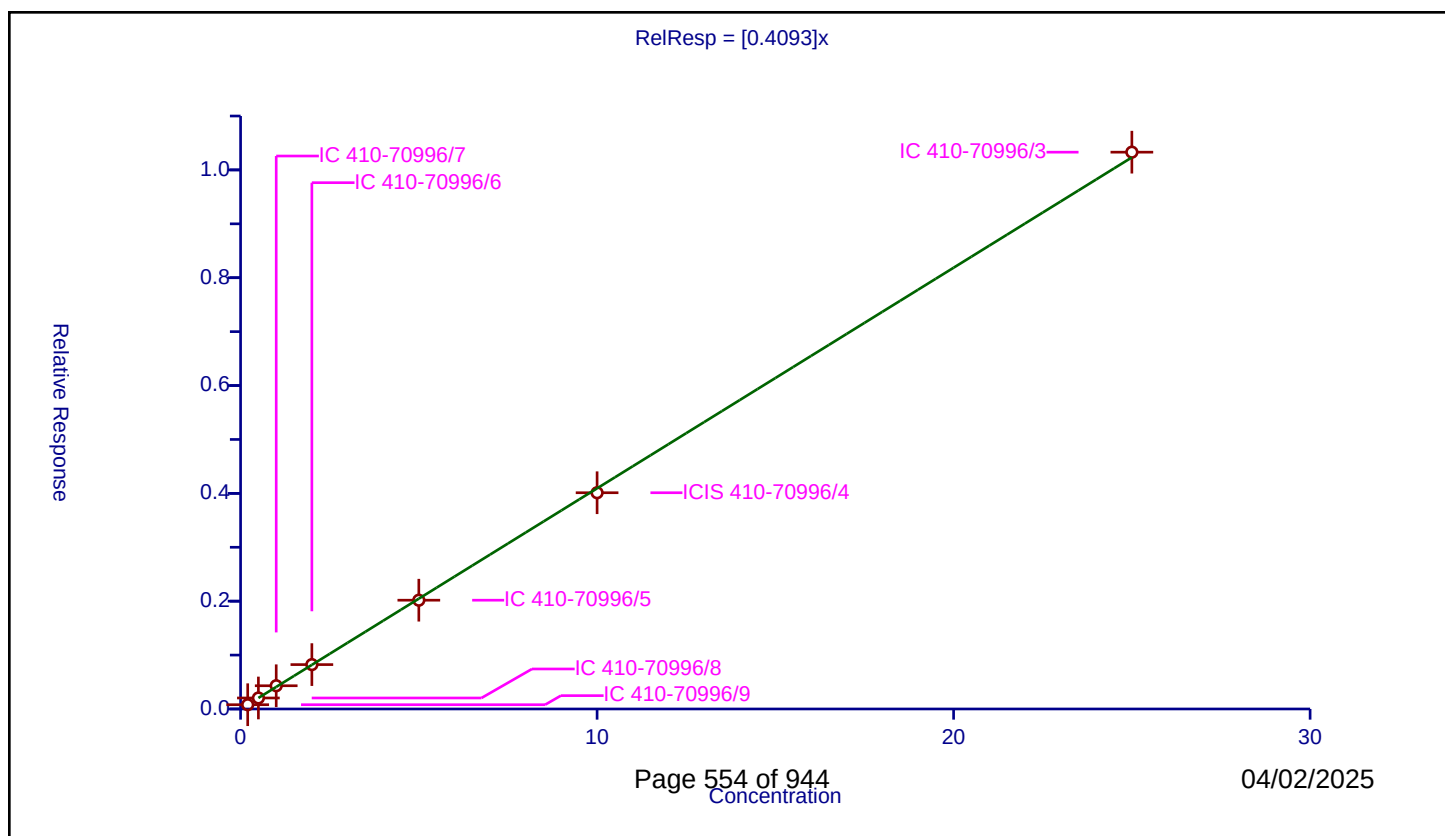
Curve Coefficients

Intercept: 0
Slope: 0.4093

Error Coefficients

Standard Error: 1040000
Relative Standard Error: 2.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.079156	10.0	2204755.0	0.395781	Y
2	IC 410-70996/8	0.5	0.204222	10.0	2189287.0	0.408443	Y
3	IC 410-70996/7	1.0	0.431295	10.0	2211412.0	0.431295	Y
4	IC 410-70996/6	2.0	0.823268	10.0	2210035.0	0.411634	Y
5	IC 410-70996/5	5.0	2.017879	10.0	2225560.0	0.403576	Y
6	ICIS 410-70996/4	10.0	4.011596	10.0	2246480.0	0.40116	Y
7	IC 410-70996/3	25.0	10.329333	10.0	2249974.0	0.413173	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

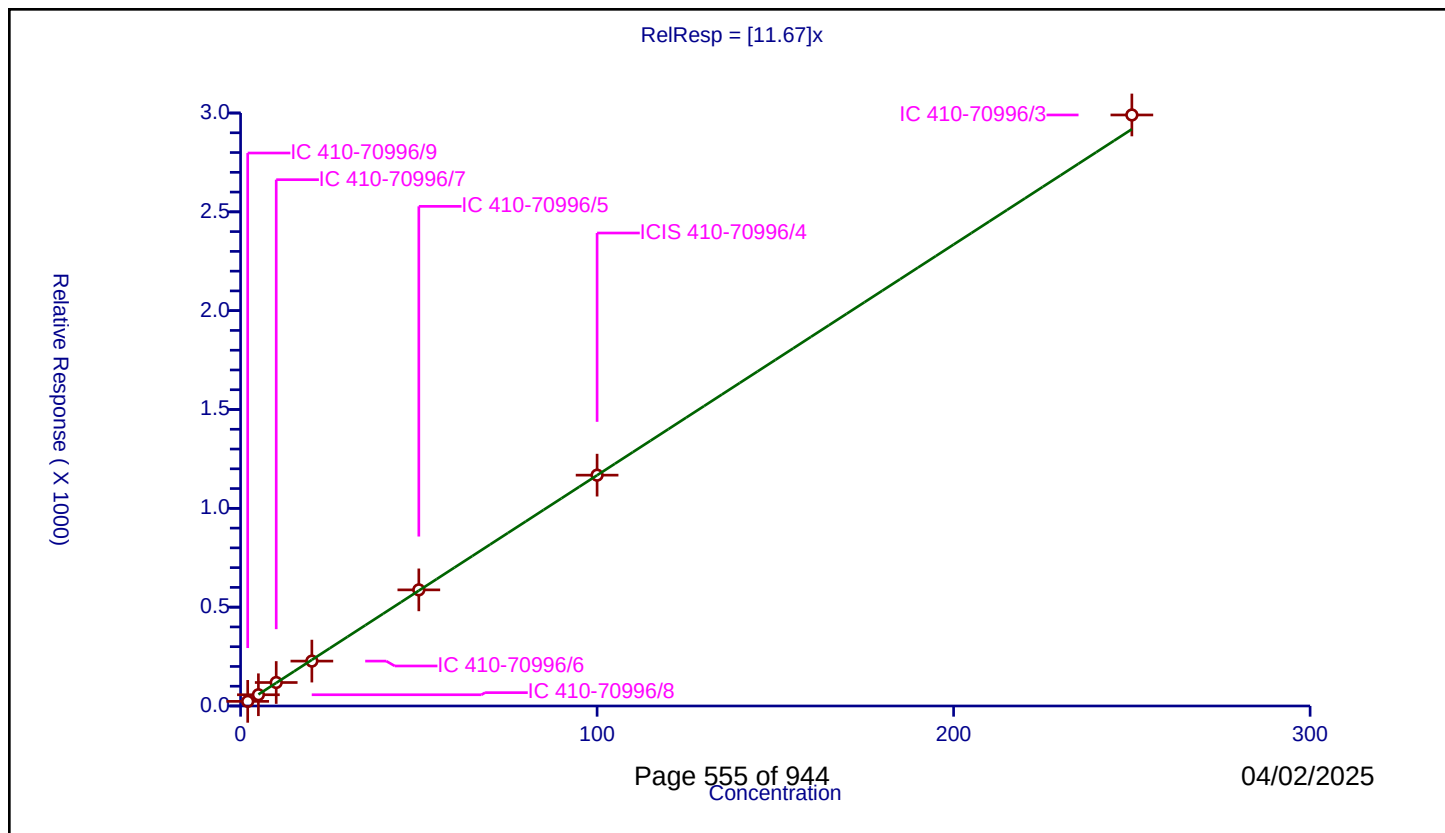
Curve Coefficients

Intercept: 0
 Slope: 11.67

Error Coefficients

Standard Error: 4790000
 Relative Standard Error: 2.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	2.0	23.391039	50.0	184731.0	11.695519	Y
2	IC 410-70996/8	5.0	56.924487	50.0	195834.0	11.384897	Y
3	IC 410-70996/7	10.0	118.830949	50.0	201206.0	11.883095	Y
4	IC 410-70996/6	20.0	227.15905	50.0	195329.0	11.357952	Y
5	IC 410-70996/5	50.0	587.488478	50.0	183343.0	11.74977	Y
6	ICIS 410-70996/4	100.0	1167.831042	50.0	186094.0	11.67831	Y
7	IC 410-70996/3	250.0	2990.204467	50.0	177877.0	11.960818	Y



Calibration

/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

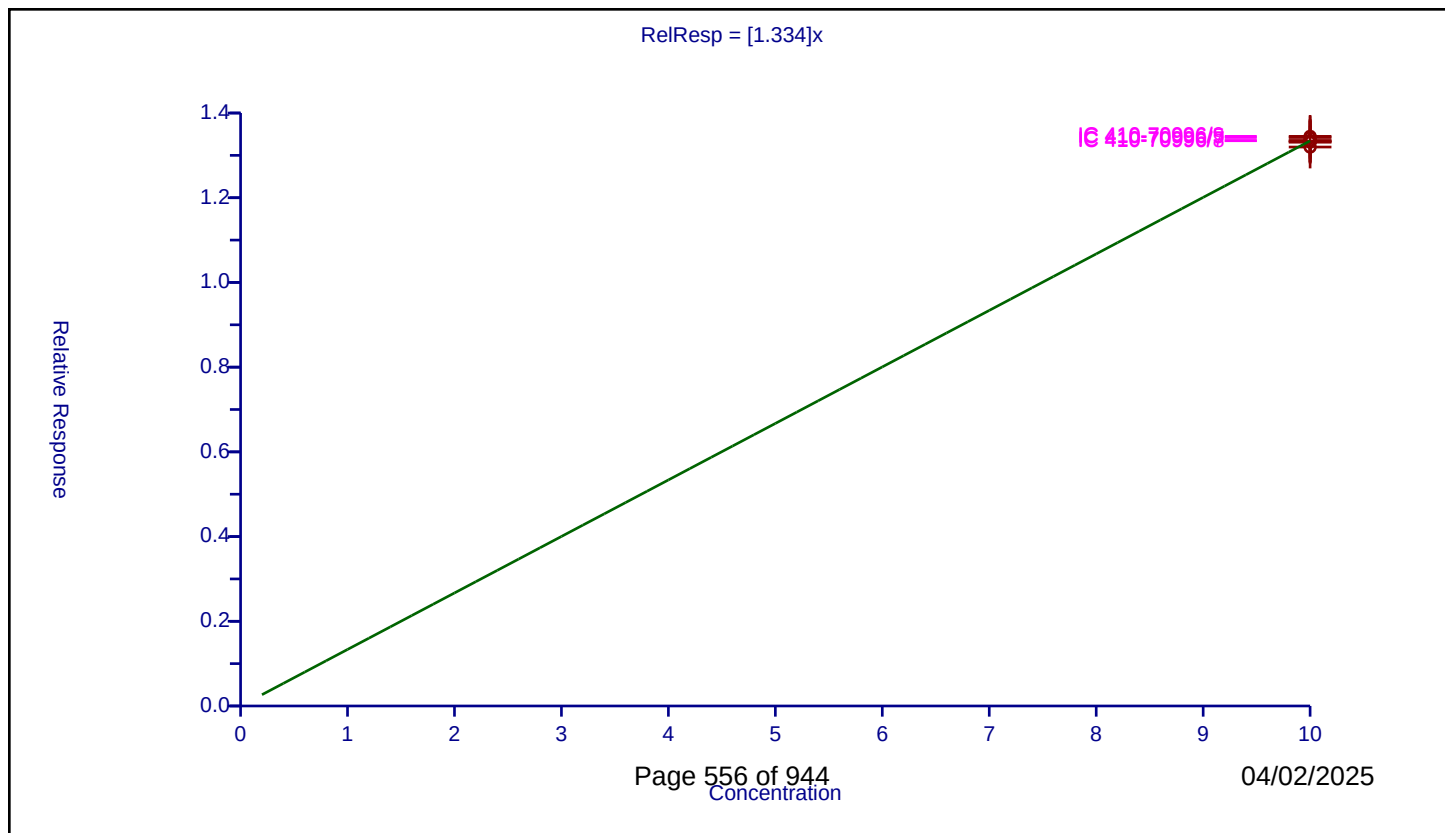
Curve Coefficients

Intercept: 0
 Slope: 1.334

Error Coefficients

Standard Error: 2320000
 Relative Standard Error: 0.6
 Correlation Coefficient: 0.00000000000000000000
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/3	10.0	13.196575	10.0	1658425.0	1.319658	Y
2	ICIS 410-70996/4	10.0	13.31712	10.0	1636269.0	1.331712	Y
3	IC 410-70996/5	10.0	13.421252	10.0	1611346.0	1.342125	Y
4	IC 410-70996/6	10.0	13.314342	10.0	1604620.0	1.331434	Y
5	IC 410-70996/7	10.0	13.349116	10.0	1600264.0	1.334912	Y
6	IC 410-70996/8	10.0	13.345384	10.0	1589997.0	1.334538	Y
7	IC 410-70996/9	10.0	13.44899	10.0	1578236.0	1.344899	Y



Calibration

/ Toluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

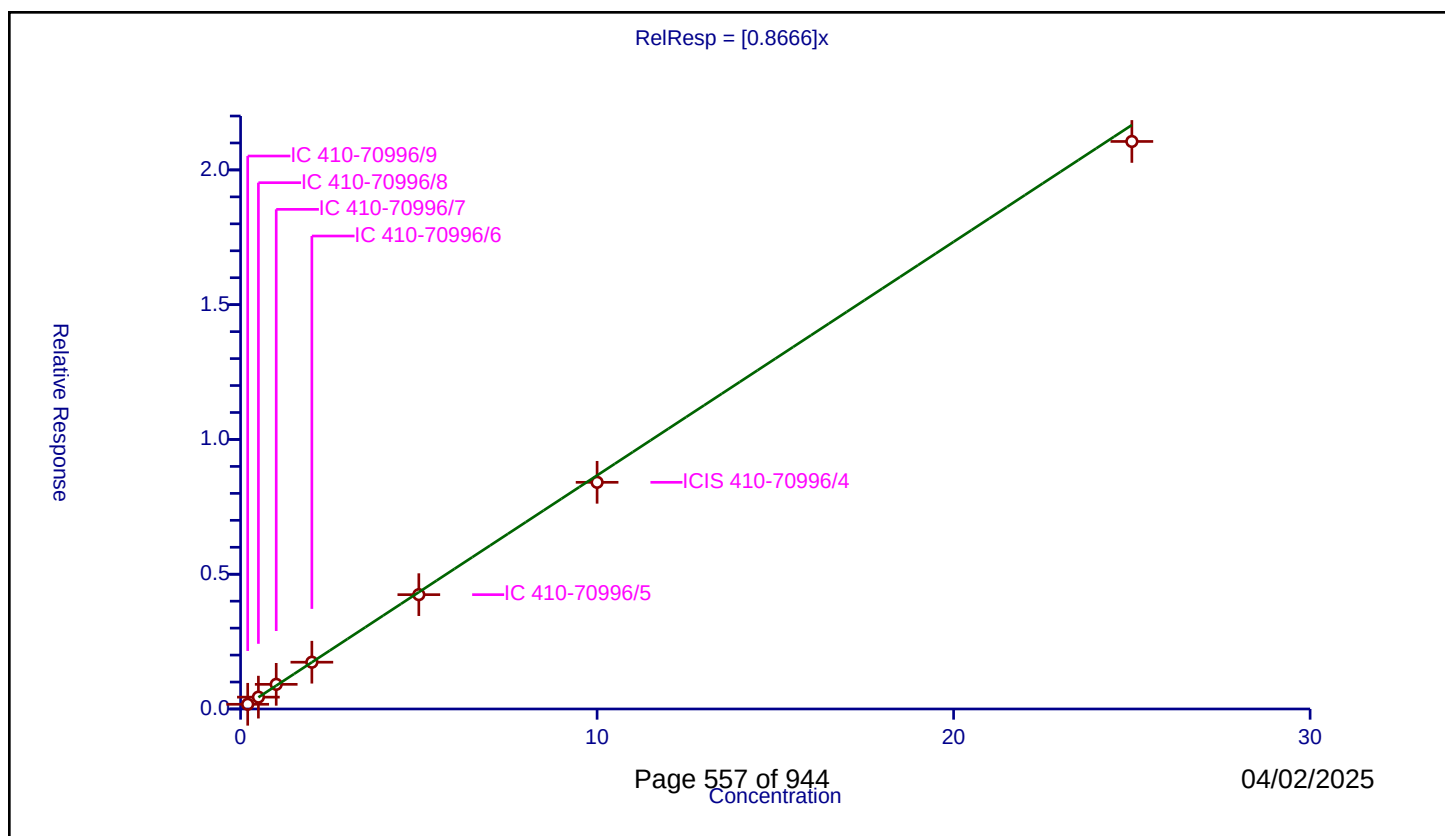
Curve Coefficients

Intercept: 0
 Slope: 0.8666

Error Coefficients

Standard Error: 1560000
 Relative Standard Error: 3.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.174701	10.0	1578236.0	0.873507	Y
2	IC 410-70996/8	0.5	0.439328	10.0	1589997.0	0.878656	Y
3	IC 410-70996/7	1.0	0.914393	10.0	1600264.0	0.914393	Y
4	IC 410-70996/6	2.0	1.736181	10.0	1604620.0	0.86809	Y
5	IC 410-70996/5	5.0	4.241764	10.0	1611346.0	0.848353	Y
6	ICIS 410-70996/4	10.0	8.409821	10.0	1636269.0	0.840982	Y
7	IC 410-70996/3	25.0	21.056135	10.0	1658425.0	0.842245	Y



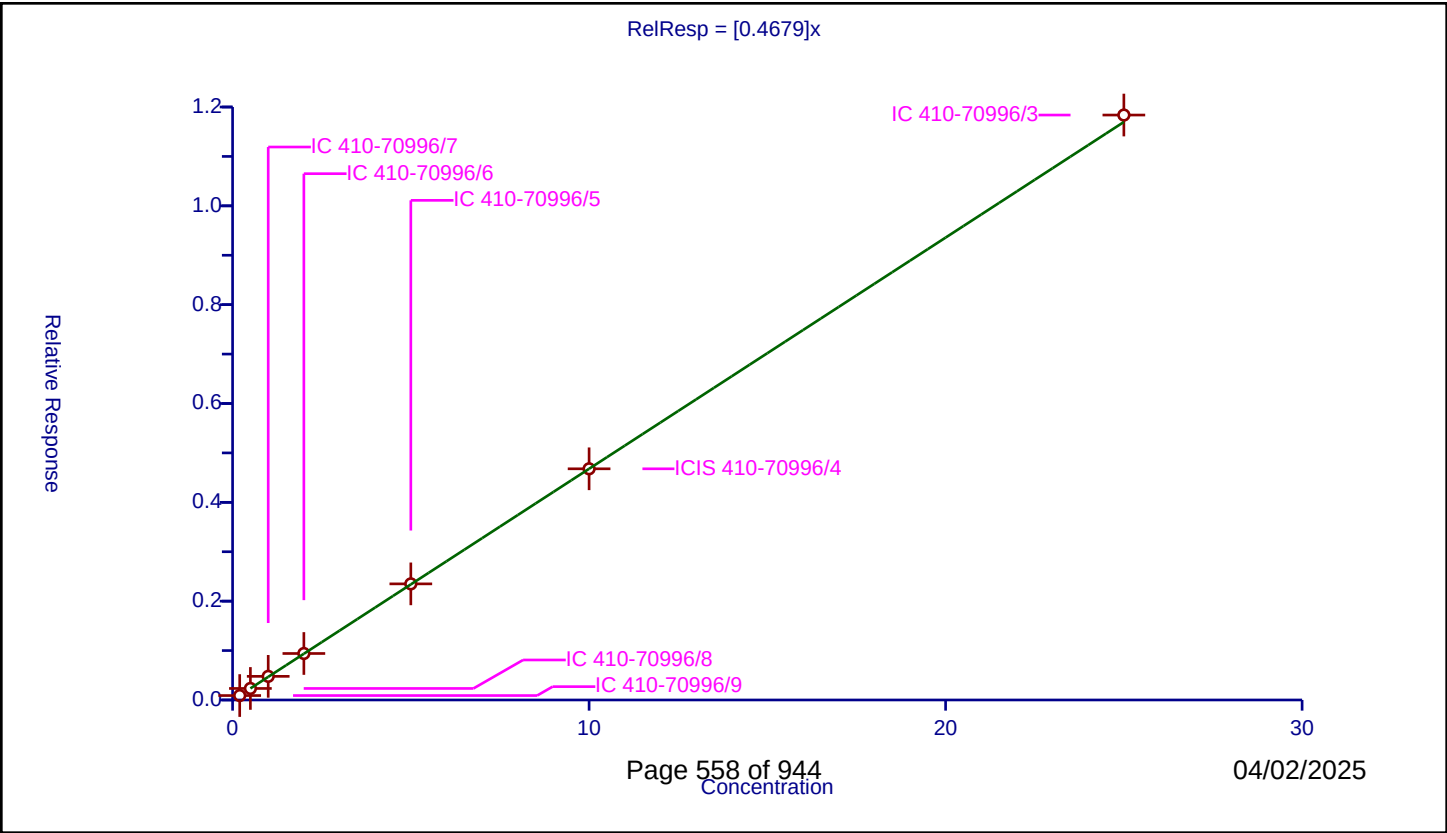
Calibration

/ 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:	0.4679
Error Coefficients	
Standard Error:	877000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.089695	10.0	1578236.0	0.448475	Y
2	IC 410-70996/8	0.5	0.23329	10.0	1589997.0	0.466579	Y
3	IC 410-70996/7	1.0	0.47844	10.0	1600264.0	0.47844	Y
4	IC 410-70996/6	2.0	0.940634	10.0	1604620.0	0.470317	Y
5	IC 410-70996/5	5.0	2.349893	10.0	1611346.0	0.469979	Y
6	ICIS 410-70996/4	10.0	4.678436	10.0	1636269.0	0.467844	Y
7	IC 410-70996/3	25.0	11.83734	10.0	1658425.0	0.473494	Y



Calibration

/ Ethyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

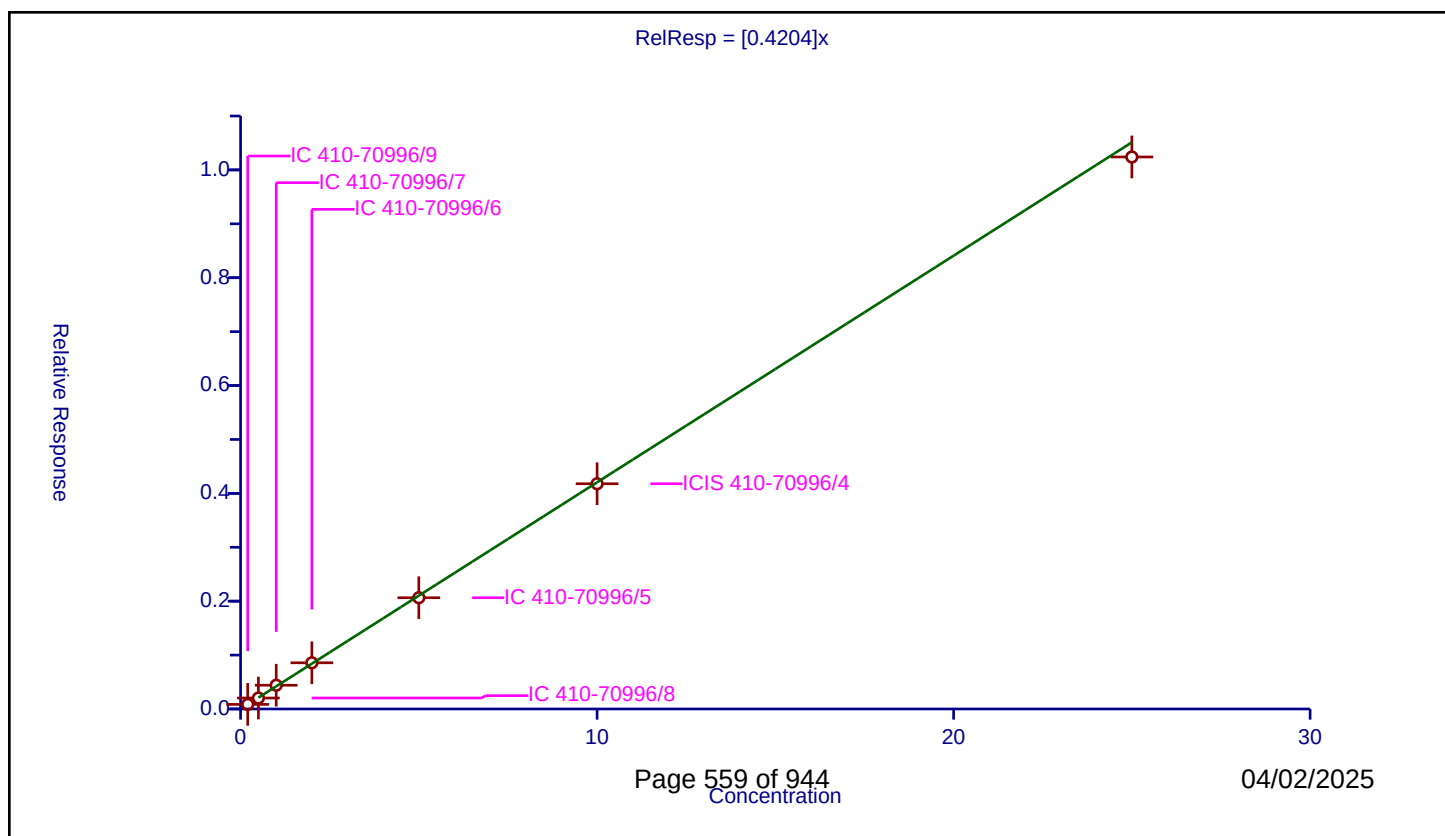
Curve Coefficients

Intercept: 0
Slope: 0.4204

Error Coefficients

Standard Error: 762000
Relative Standard Error: 2.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.085348	10.0	1578236.0	0.426742	Y
2	IC 410-70996/8	0.5	0.203466	10.0	1589997.0	0.406932	Y
3	IC 410-70996/7	1.0	0.440752	10.0	1600264.0	0.440752	Y
4	IC 410-70996/6	2.0	0.856919	10.0	1604620.0	0.42846	Y
5	IC 410-70996/5	5.0	2.063871	10.0	1611346.0	0.412774	Y
6	ICIS 410-70996/4	10.0	4.178243	10.0	1636269.0	0.417824	Y
7	IC 410-70996/3	25.0	10.240385	10.0	1658425.0	0.409615	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

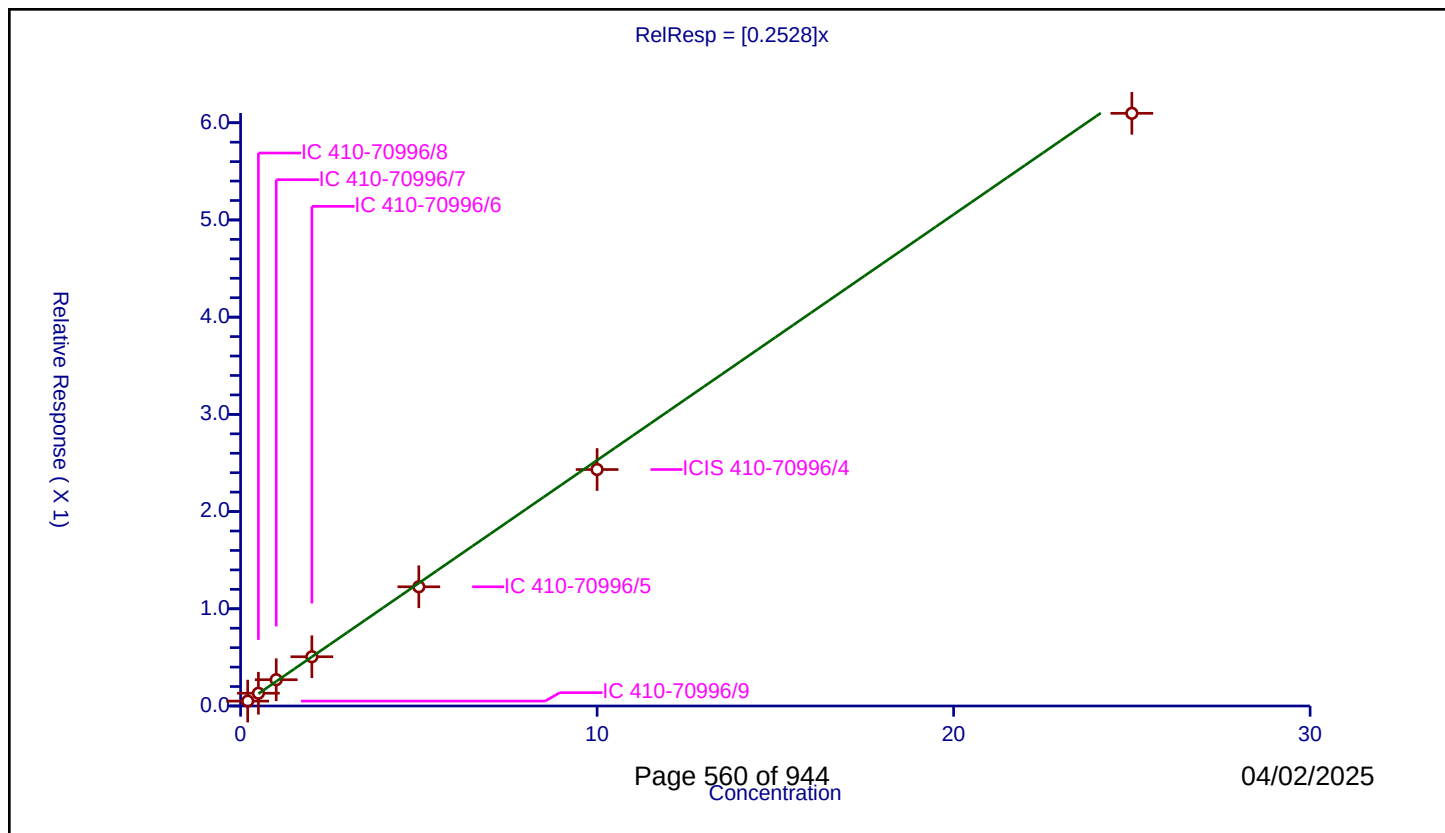
Curve Coefficients

Intercept: 0
Slope: 0.2528

Error Coefficients

Standard Error: 453000
Relative Standard Error: 4.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.050259	10.0	1578236.0	0.251293	Y
2	IC 410-70996/8	0.5	0.131195	10.0	1589997.0	0.26239	Y
3	IC 410-70996/7	1.0	0.270324	10.0	1600264.0	0.270324	Y
4	IC 410-70996/6	2.0	0.506413	10.0	1604620.0	0.253206	Y
5	IC 410-70996/5	5.0	1.22631	10.0	1611346.0	0.245262	Y
6	ICIS 410-70996/4	10.0	2.432687	10.0	1636269.0	0.243269	Y
7	IC 410-70996/3	25.0	6.097068	10.0	1658425.0	0.243883	Y



Calibration

/ Tetrachloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

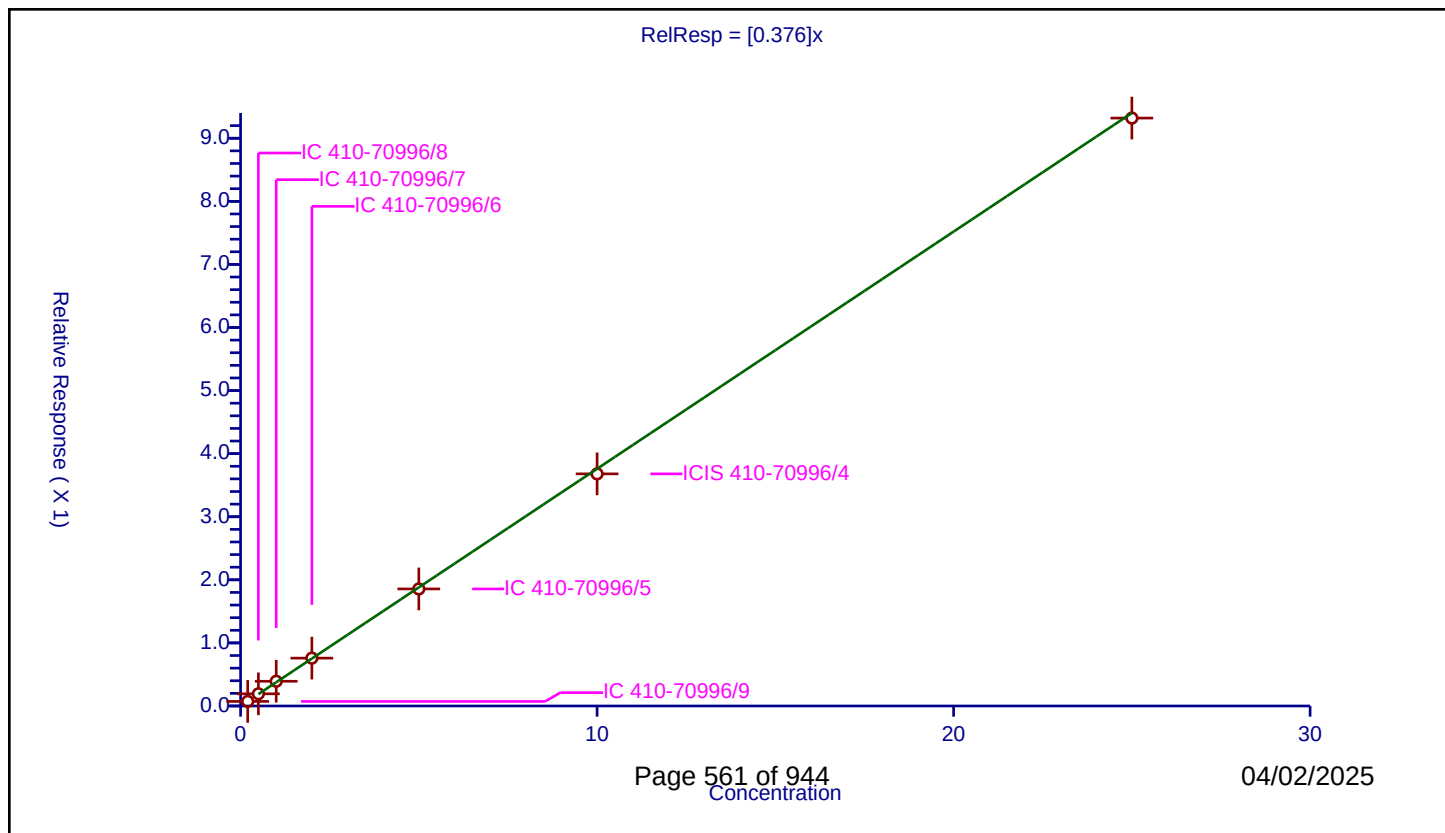
Curve Coefficients

Intercept: 0
Slope: 0.376

Error Coefficients

Standard Error: 690000
Relative Standard Error: 2.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.0726	10.0	1578236.0	0.363	Y
2	IC 410-70996/8	0.5	0.193013	10.0	1589997.0	0.386026	Y
3	IC 410-70996/7	1.0	0.391935	10.0	1600264.0	0.391935	Y
4	IC 410-70996/6	2.0	0.75841	10.0	1604620.0	0.379205	Y
5	IC 410-70996/5	5.0	1.855461	10.0	1611346.0	0.371092	Y
6	ICIS 410-70996/4	10.0	3.679462	10.0	1636269.0	0.367946	Y
7	IC 410-70996/3	25.0	9.319825	10.0	1658425.0	0.372793	Y



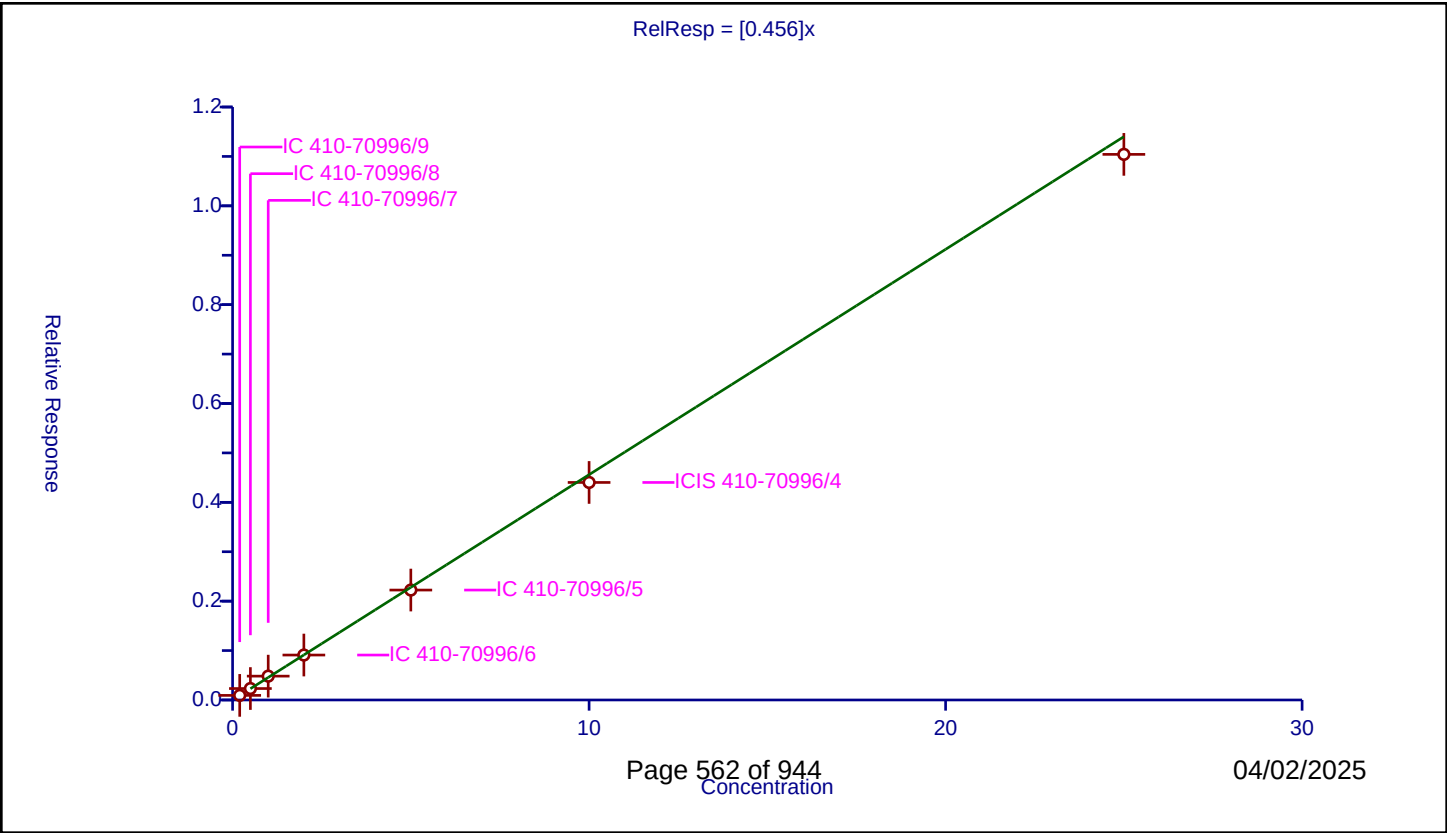
Calibration

/ 1,3-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.456
Error Coefficients	
Standard Error:	819000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.092838	10.0	1578236.0	0.464189	Y
2	IC 410-70996/8	0.5	0.231761	10.0	1589997.0	0.463523	Y
3	IC 410-70996/7	1.0	0.482683	10.0	1600264.0	0.482683	Y
4	IC 410-70996/6	2.0	0.909599	10.0	1604620.0	0.454799	Y
5	IC 410-70996/5	5.0	2.2246	10.0	1611346.0	0.44492	Y
6	ICIS 410-70996/4	10.0	4.402057	10.0	1636269.0	0.440206	Y
7	IC 410-70996/3	25.0	11.041796	10.0	1658425.0	0.441672	Y



Calibration

/ 2-Hexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

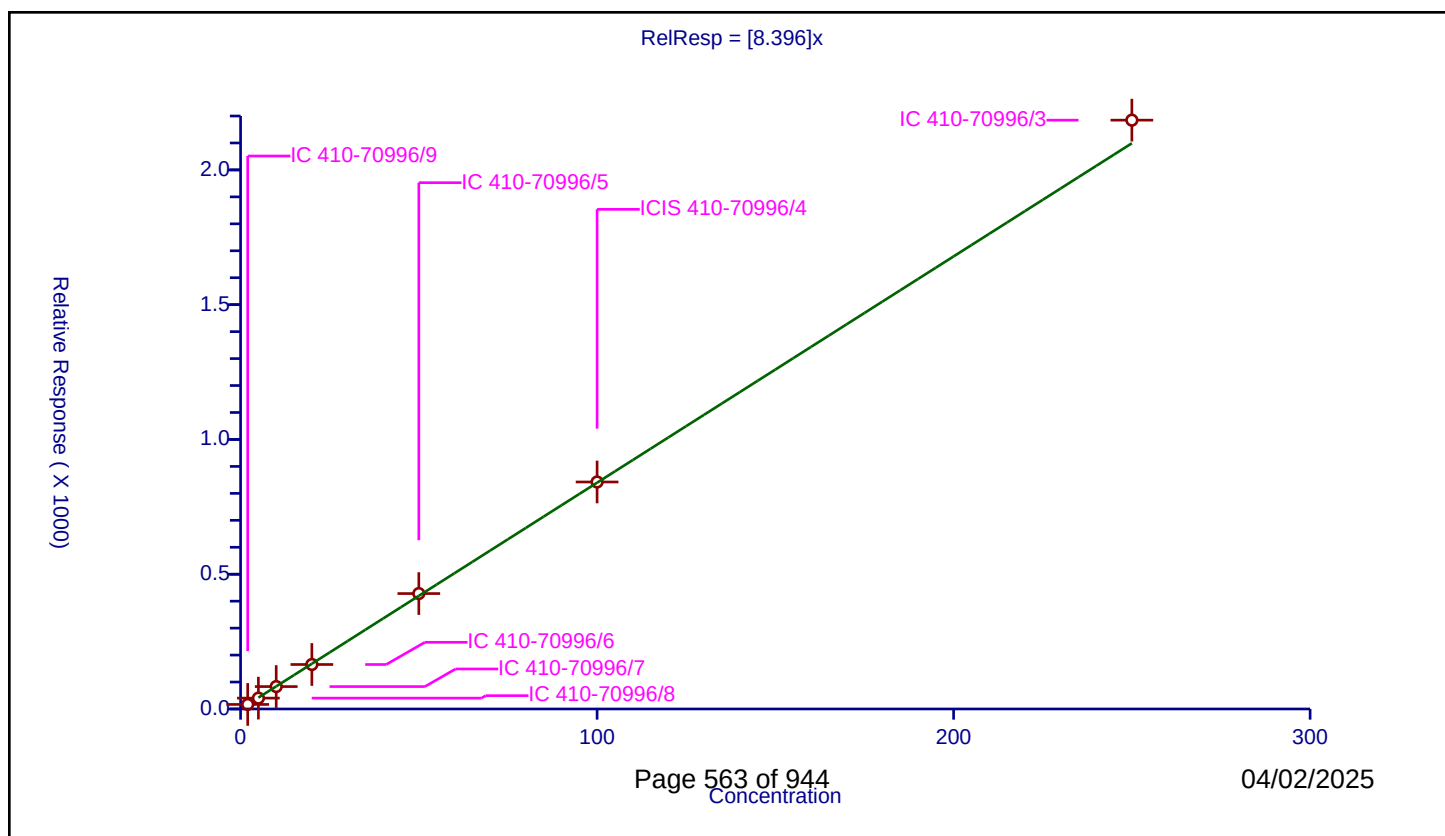
Curve Coefficients

Intercept: 0
Slope: 8.396

Error Coefficients

Standard Error: 3490000
Relative Standard Error: 2.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	2.0	16.8269	50.0	184731.0	8.41345	Y
2	IC 410-70996/8	5.0	40.275693	50.0	195834.0	8.055139	Y
3	IC 410-70996/7	10.0	83.203533	50.0	201206.0	8.320353	Y
4	IC 410-70996/6	20.0	165.119875	50.0	195329.0	8.255994	Y
5	IC 410-70996/5	50.0	428.222785	50.0	183343.0	8.564456	Y
6	ICIS 410-70996/4	100.0	842.208776	50.0	186094.0	8.422088	Y
7	IC 410-70996/3	250.0	2184.644164	50.0	177877.0	8.738577	Y



Calibration

/ Chlorodibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

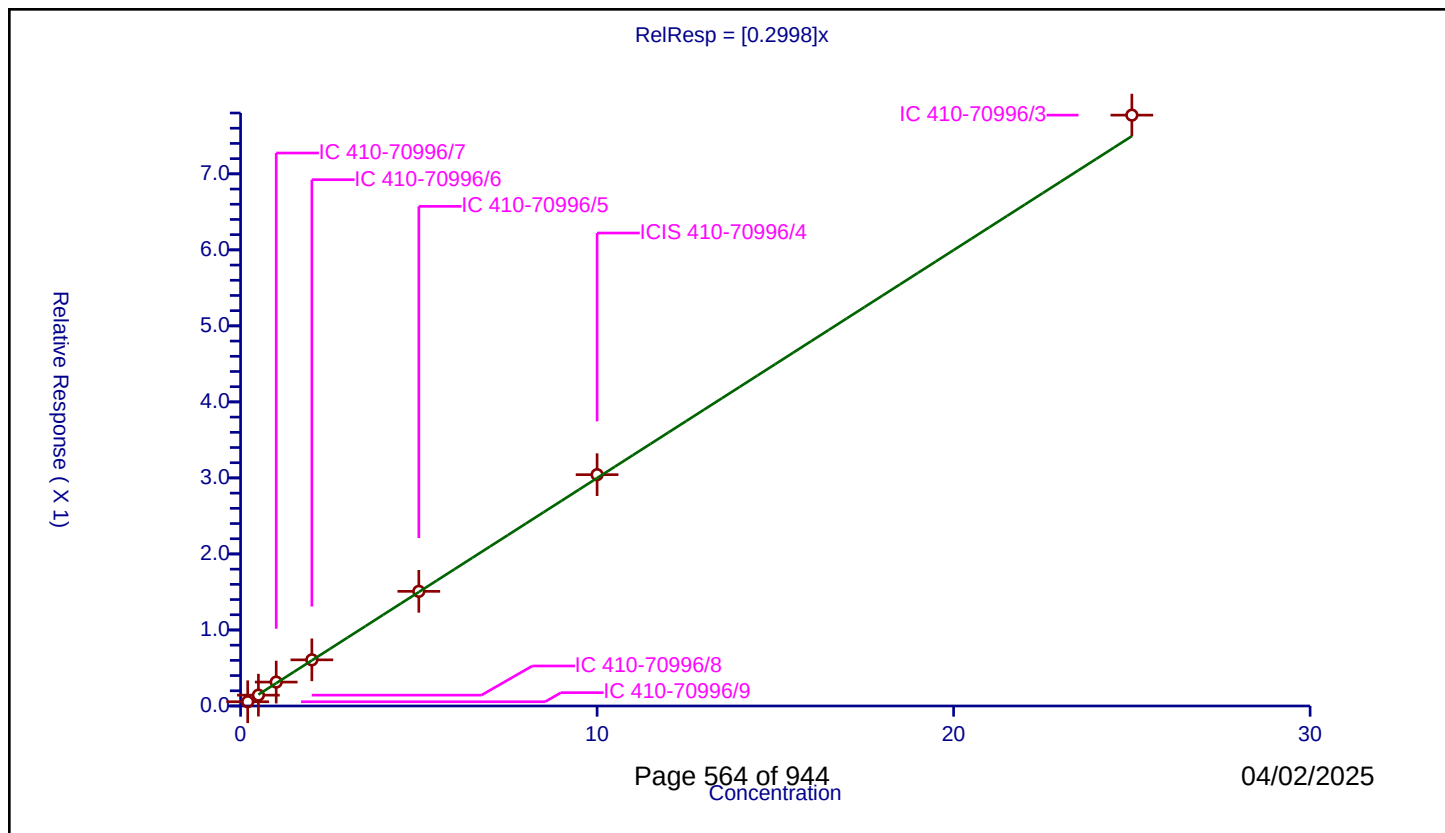
Curve Coefficients

Intercept: 0
 Slope: 0.2998

Error Coefficients

Standard Error: 575000
 Relative Standard Error: 4.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.055809	10.0	1578236.0	0.279046	Y
2	IC 410-70996/8	0.5	0.142491	10.0	1589997.0	0.284982	Y
3	IC 410-70996/7	1.0	0.314567	10.0	1600264.0	0.314567	Y
4	IC 410-70996/6	2.0	0.606879	10.0	1604620.0	0.303439	Y
5	IC 410-70996/5	5.0	1.508099	10.0	1611346.0	0.30162	Y
6	ICIS 410-70996/4	10.0	3.042758	10.0	1636269.0	0.304276	Y
7	IC 410-70996/3	25.0	7.772314	10.0	1658425.0	0.310893	Y



Calibration

/ Ethylene Dibromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

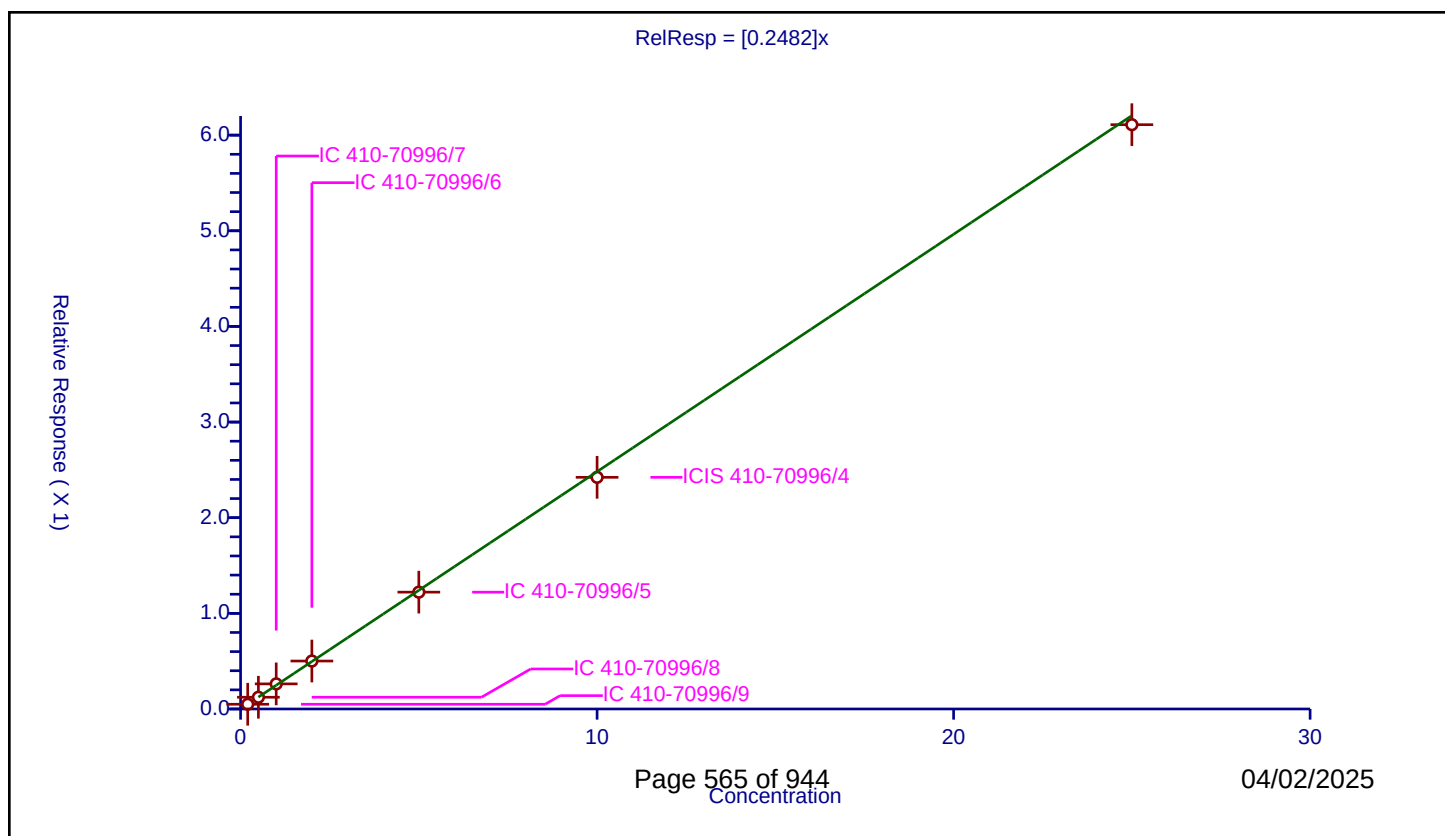
Curve Coefficients

Intercept: 0
Slope: 0.2482

Error Coefficients

Standard Error: 453000
Relative Standard Error: 2.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.049448	10.0	1578236.0	0.247238	Y
2	IC 410-70996/8	0.5	0.122868	10.0	1589997.0	0.245736	Y
3	IC 410-70996/7	1.0	0.262632	10.0	1600264.0	0.262632	Y
4	IC 410-70996/6	2.0	0.501427	10.0	1604620.0	0.250714	Y
5	IC 410-70996/5	5.0	1.221625	10.0	1611346.0	0.244325	Y
6	ICIS 410-70996/4	10.0	2.422303	10.0	1636269.0	0.24223	Y
7	IC 410-70996/3	25.0	6.109339	10.0	1658425.0	0.244374	Y



Calibration

/ 1-Chlorohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

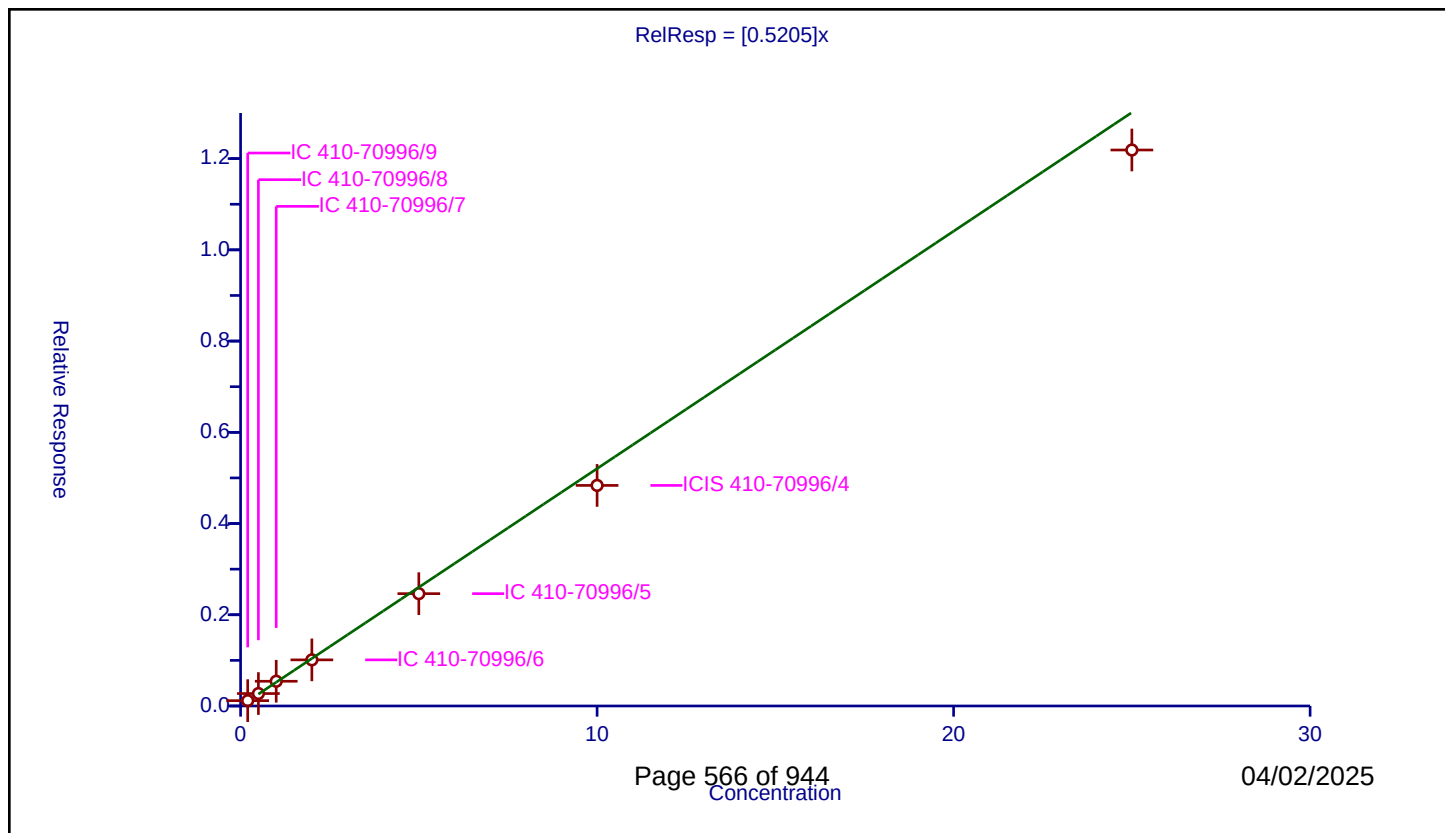
Curve Coefficients

Intercept: 0
 Slope: 0.5205

Error Coefficients

Standard Error: 904000
 Relative Standard Error: 7.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.117124	10.0	1578236.0	0.585622	Y
2	IC 410-70996/8	0.5	0.272963	10.0	1589997.0	0.545926	Y
3	IC 410-70996/7	1.0	0.542467	10.0	1600264.0	0.542467	Y
4	IC 410-70996/6	2.0	1.011149	10.0	1604620.0	0.505575	Y
5	IC 410-70996/5	5.0	2.462569	10.0	1611346.0	0.492514	Y
6	ICIS 410-70996/4	10.0	4.835501	10.0	1636269.0	0.48355	Y
7	IC 410-70996/3	25.0	12.189071	10.0	1658425.0	0.487563	Y



Calibration

/ Chlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

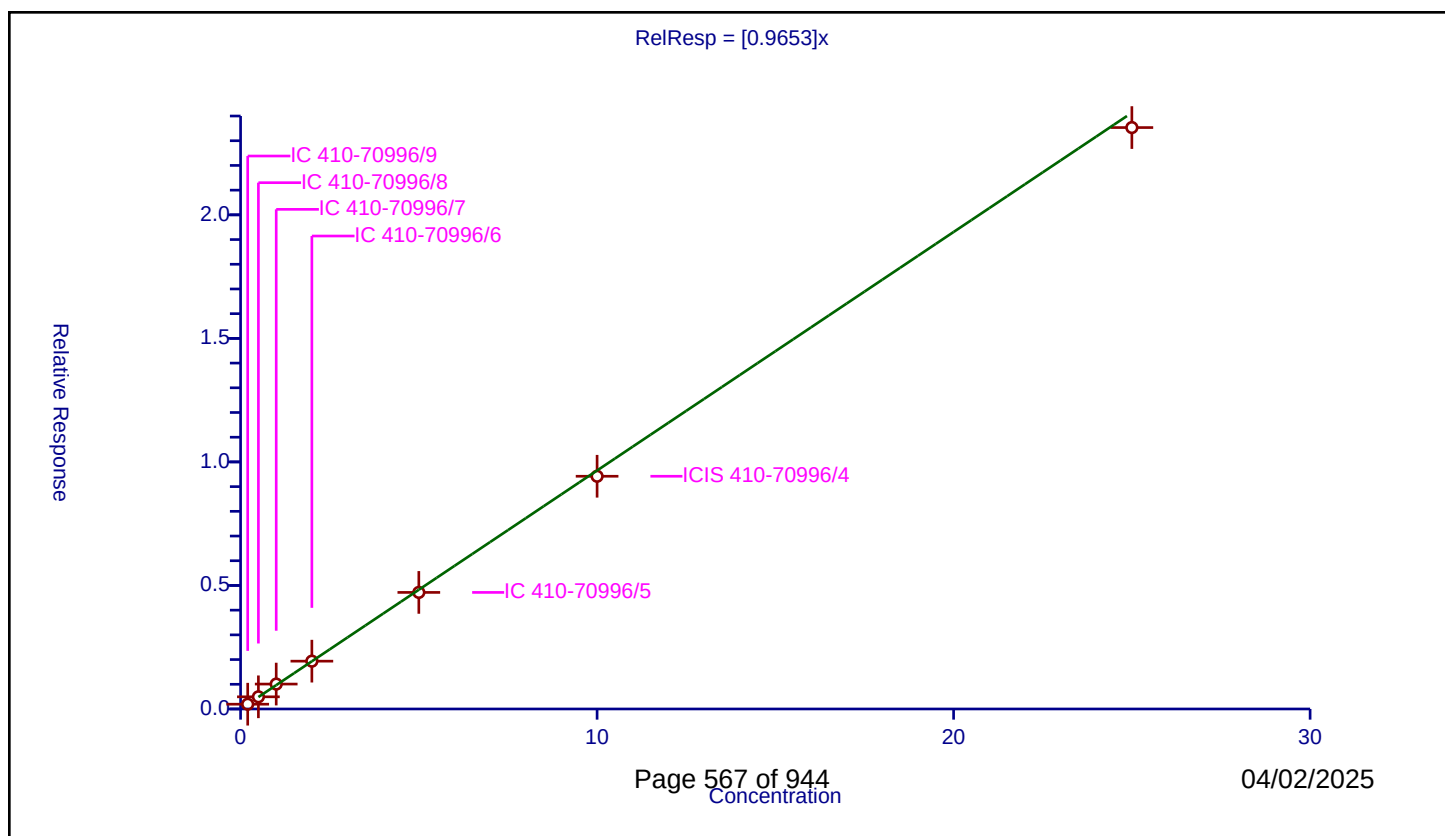
Curve Coefficients

Intercept: 0
Slope: 0.9653

Error Coefficients

Standard Error: 1750000
Relative Standard Error: 2.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.193875	10.0	1578236.0	0.969373	Y
2	IC 410-70996/8	0.5	0.492353	10.0	1589997.0	0.984706	Y
3	IC 410-70996/7	1.0	1.008402	10.0	1600264.0	1.008402	Y
4	IC 410-70996/6	2.0	1.935443	10.0	1604620.0	0.967721	Y
5	IC 410-70996/5	5.0	4.718093	10.0	1611346.0	0.943619	Y
6	ICIS 410-70996/4	10.0	9.419606	10.0	1636269.0	0.941961	Y
7	IC 410-70996/3	25.0	23.532273	10.0	1658425.0	0.941291	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

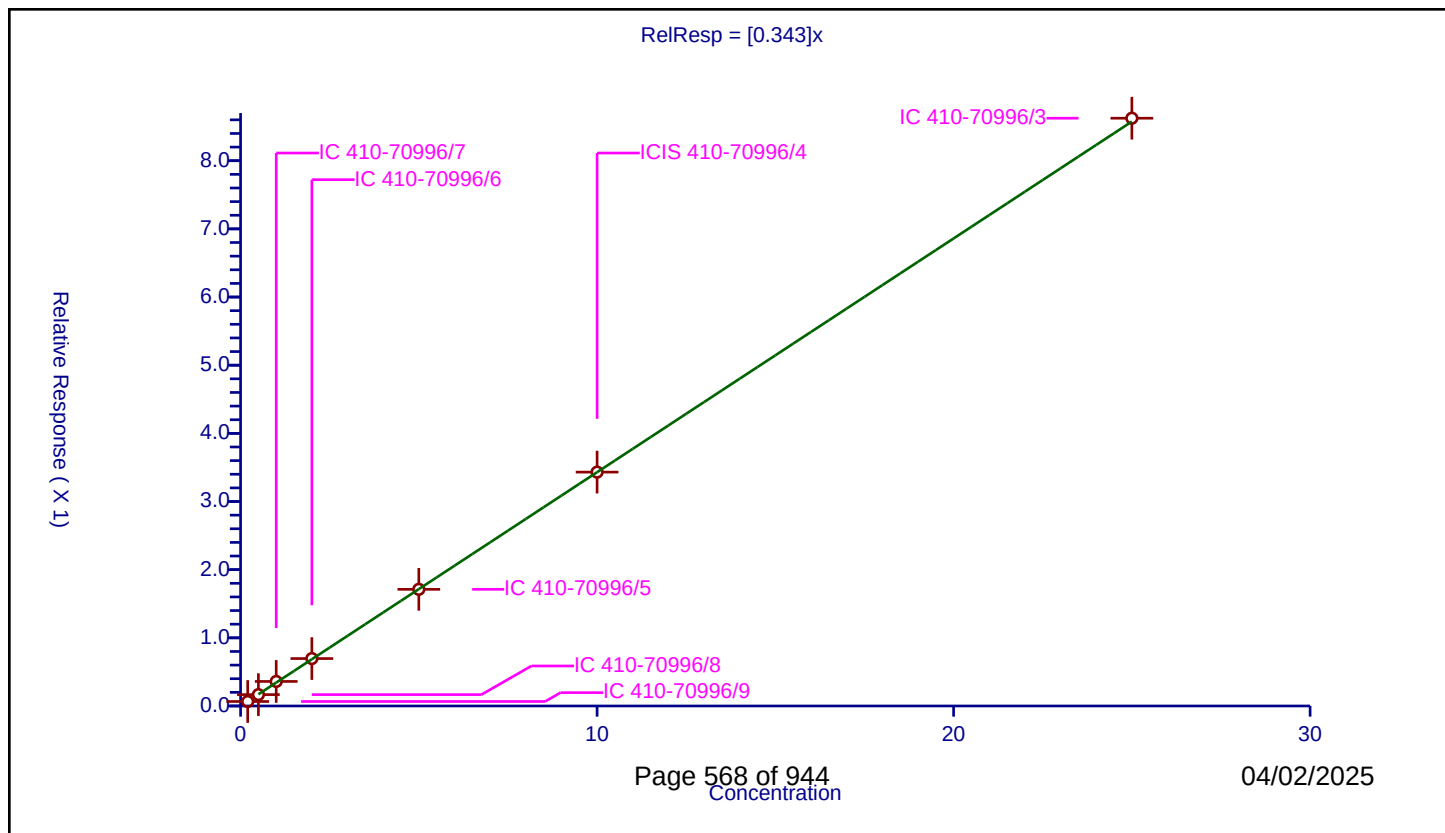
Curve Coefficients

Intercept: 0
Slope: 0.343

Error Coefficients

Standard Error: 639000
Relative Standard Error: 2.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.065757	10.0	1578236.0	0.328785	Y
2	IC 410-70996/8	0.5	0.166919	10.0	1589997.0	0.333837	Y
3	IC 410-70996/7	1.0	0.359997	10.0	1600264.0	0.359997	Y
4	IC 410-70996/6	2.0	0.695754	10.0	1604620.0	0.347877	Y
5	IC 410-70996/5	5.0	1.711637	10.0	1611346.0	0.342327	Y
6	ICIS 410-70996/4	10.0	3.431398	10.0	1636269.0	0.34314	Y
7	IC 410-70996/3	25.0	8.623797	10.0	1658425.0	0.344952	Y



Calibration

/ Ethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

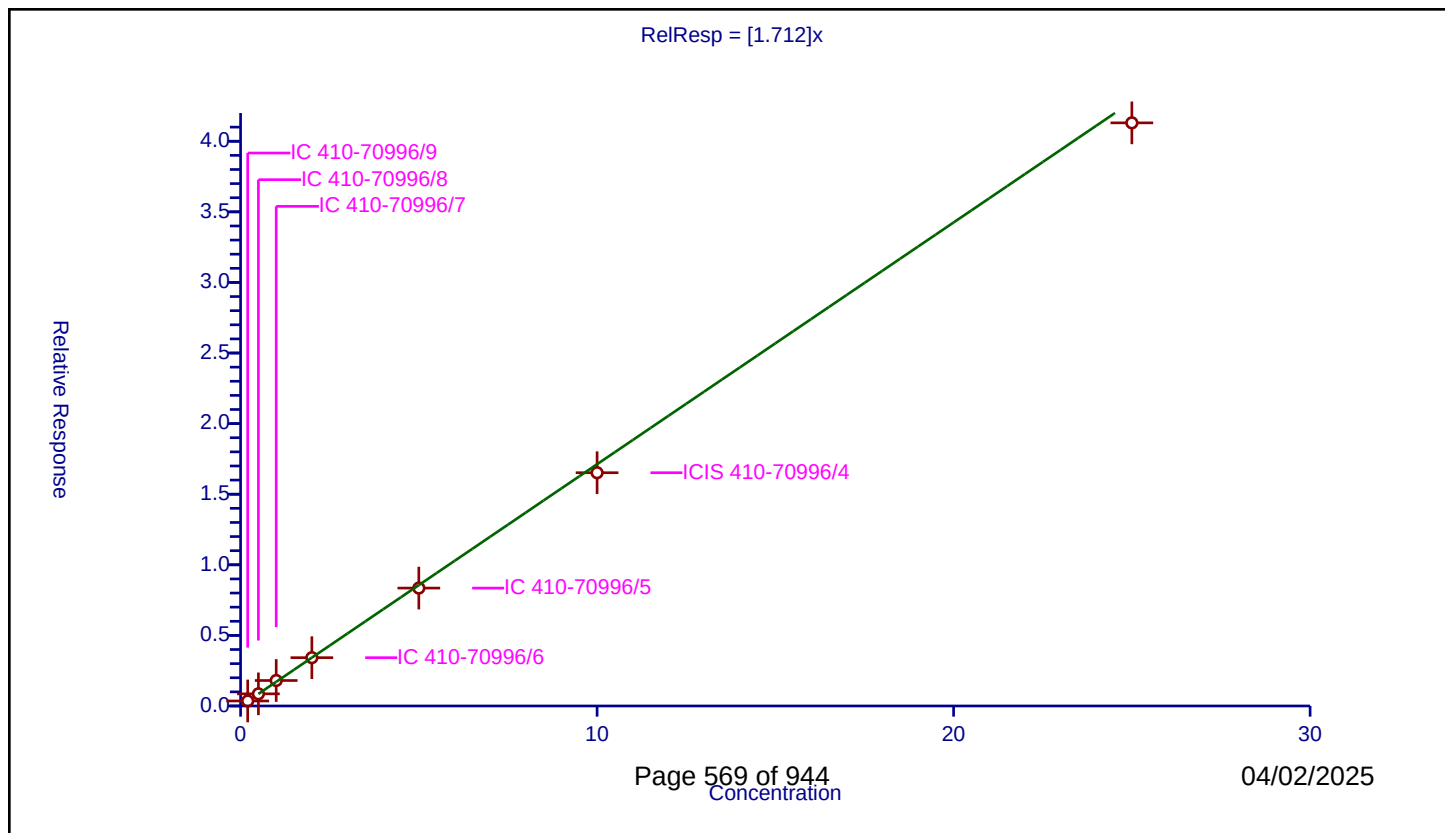
Curve Coefficients

Intercept: 0
Slope: 1.712

Error Coefficients

Standard Error: 3070000
Relative Standard Error: 3.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.355093	10.0	1578236.0	1.775463	Y
2	IC 410-70996/8	0.5	0.860731	10.0	1589997.0	1.721462	Y
3	IC 410-70996/7	1.0	1.804527	10.0	1600264.0	1.804527	Y
4	IC 410-70996/6	2.0	3.421153	10.0	1604620.0	1.710576	Y
5	IC 410-70996/5	5.0	8.351713	10.0	1611346.0	1.670343	Y
6	ICIS 410-70996/4	10.0	16.521959	10.0	1636269.0	1.652196	Y
7	IC 410-70996/3	25.0	41.303852	10.0	1658425.0	1.652154	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

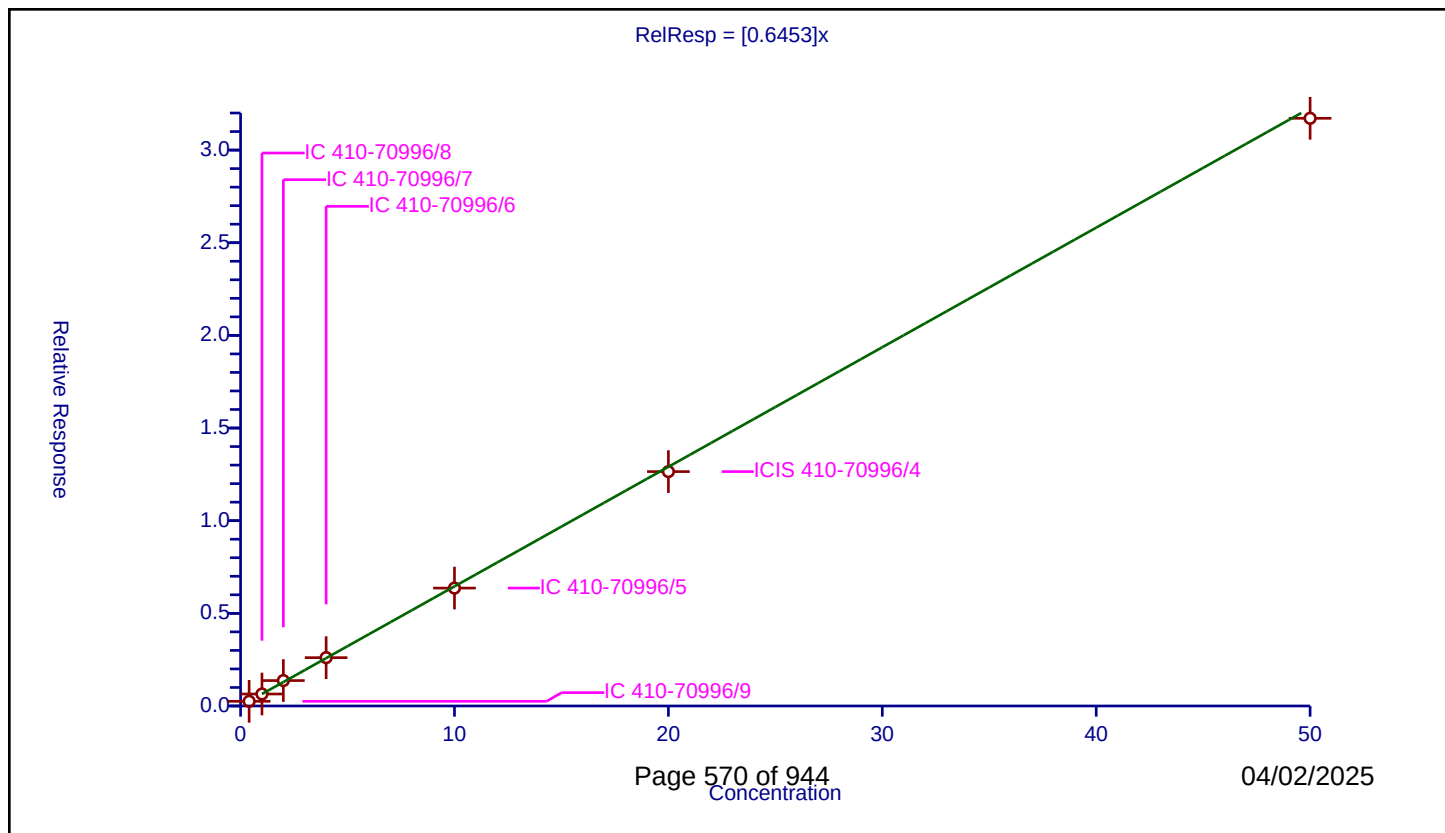
Curve Coefficients

Intercept: 0
 Slope: 0.6453

Error Coefficients

Standard Error: 2350000
 Relative Standard Error: 3.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.4	0.252104	10.0	1578236.0	0.630261	Y
2	IC 410-70996/8	1.0	0.646328	10.0	1589997.0	0.646328	Y
3	IC 410-70996/7	2.0	1.37153	10.0	1600264.0	0.685765	Y
4	IC 410-70996/6	4.0	2.608306	10.0	1604620.0	0.652077	Y
5	IC 410-70996/5	10.0	6.362184	10.0	1611346.0	0.636218	Y
6	ICIS 410-70996/4	20.0	12.649405	10.0	1636269.0	0.63247	Y
7	IC 410-70996/3	50.0	31.715664	10.0	1658425.0	0.634313	Y



Calibration

/ o-Xylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

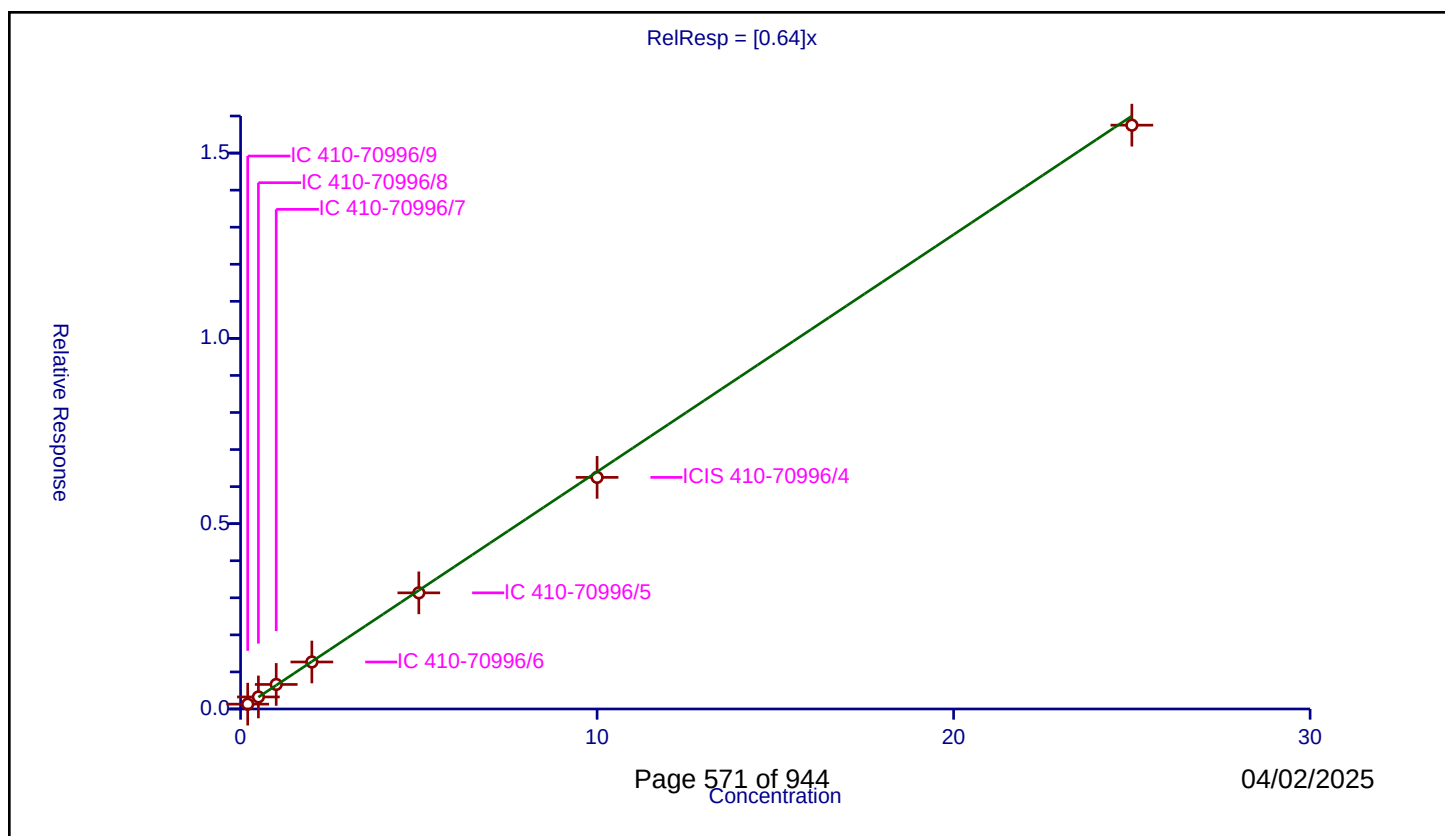
Curve Coefficients

Intercept: 0
Slope: 0.64

Error Coefficients

Standard Error: 1170000
Relative Standard Error: 2.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.130481	10.0	1578236.0	0.652406	Y
2	IC 410-70996/8	0.5	0.32485	10.0	1589997.0	0.649699	Y
3	IC 410-70996/7	1.0	0.662047	10.0	1600264.0	0.662047	Y
4	IC 410-70996/6	2.0	1.2684	10.0	1604620.0	0.6342	Y
5	IC 410-70996/5	5.0	3.133833	10.0	1611346.0	0.626767	Y
6	ICIS 410-70996/4	10.0	6.249443	10.0	1636269.0	0.624944	Y
7	IC 410-70996/3	25.0	15.753055	10.0	1658425.0	0.630122	Y



Calibration

/ Styrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

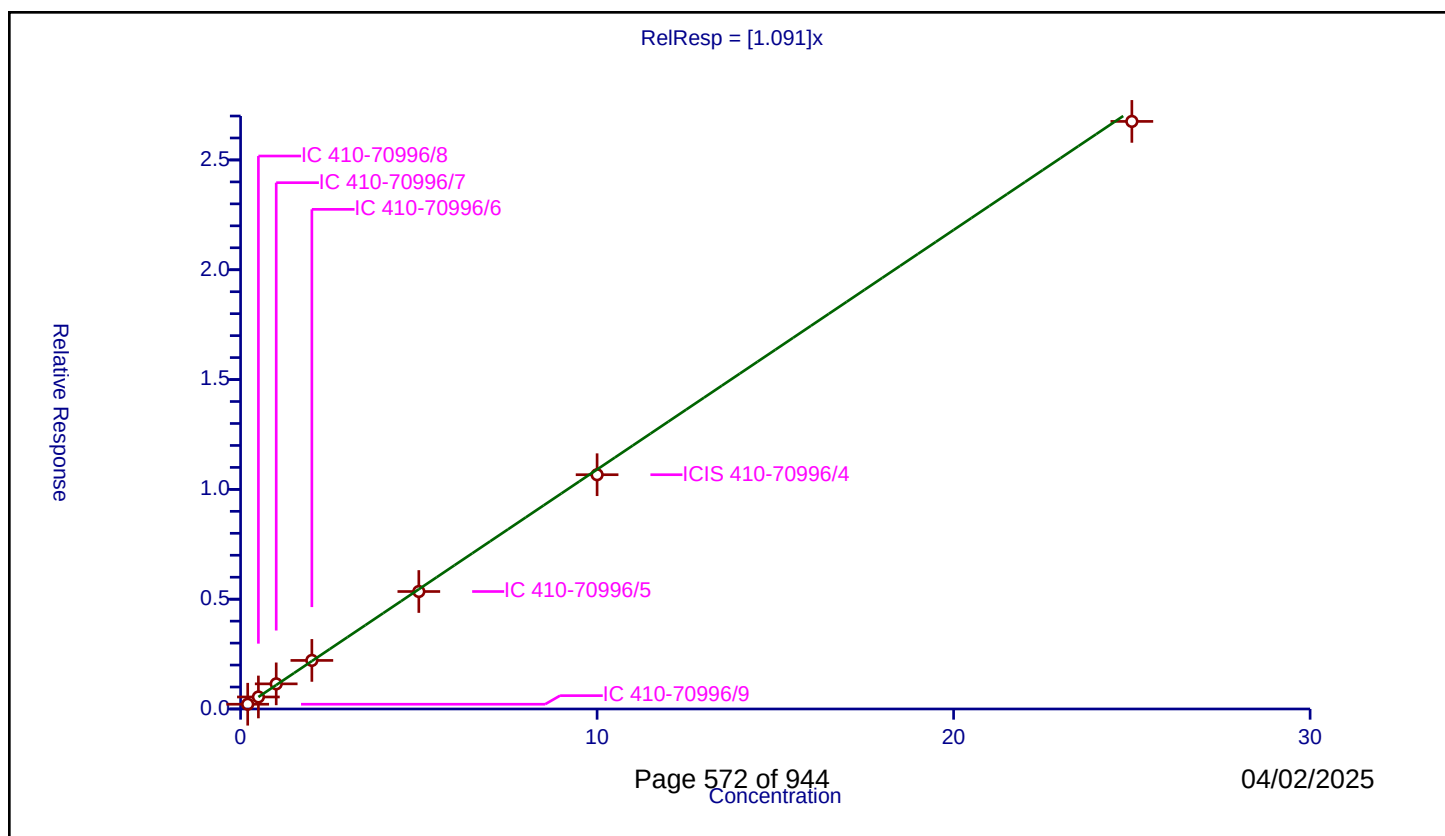
Curve Coefficients

Intercept: 0
Slope: 1.091

Error Coefficients

Standard Error: 1990000
Relative Standard Error: 2.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.216653	10.0	1578236.0	1.083266	Y
2	IC 410-70996/8	0.5	0.547032	10.0	1589997.0	1.094065	Y
3	IC 410-70996/7	1.0	1.14413	10.0	1600264.0	1.14413	Y
4	IC 410-70996/6	2.0	2.211701	10.0	1604620.0	1.105851	Y
5	IC 410-70996/5	5.0	5.349267	10.0	1611346.0	1.069853	Y
6	ICIS 410-70996/4	10.0	10.66695	10.0	1636269.0	1.066695	Y
7	IC 410-70996/3	25.0	26.754583	10.0	1658425.0	1.070183	Y



Calibration

/ Bromoform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

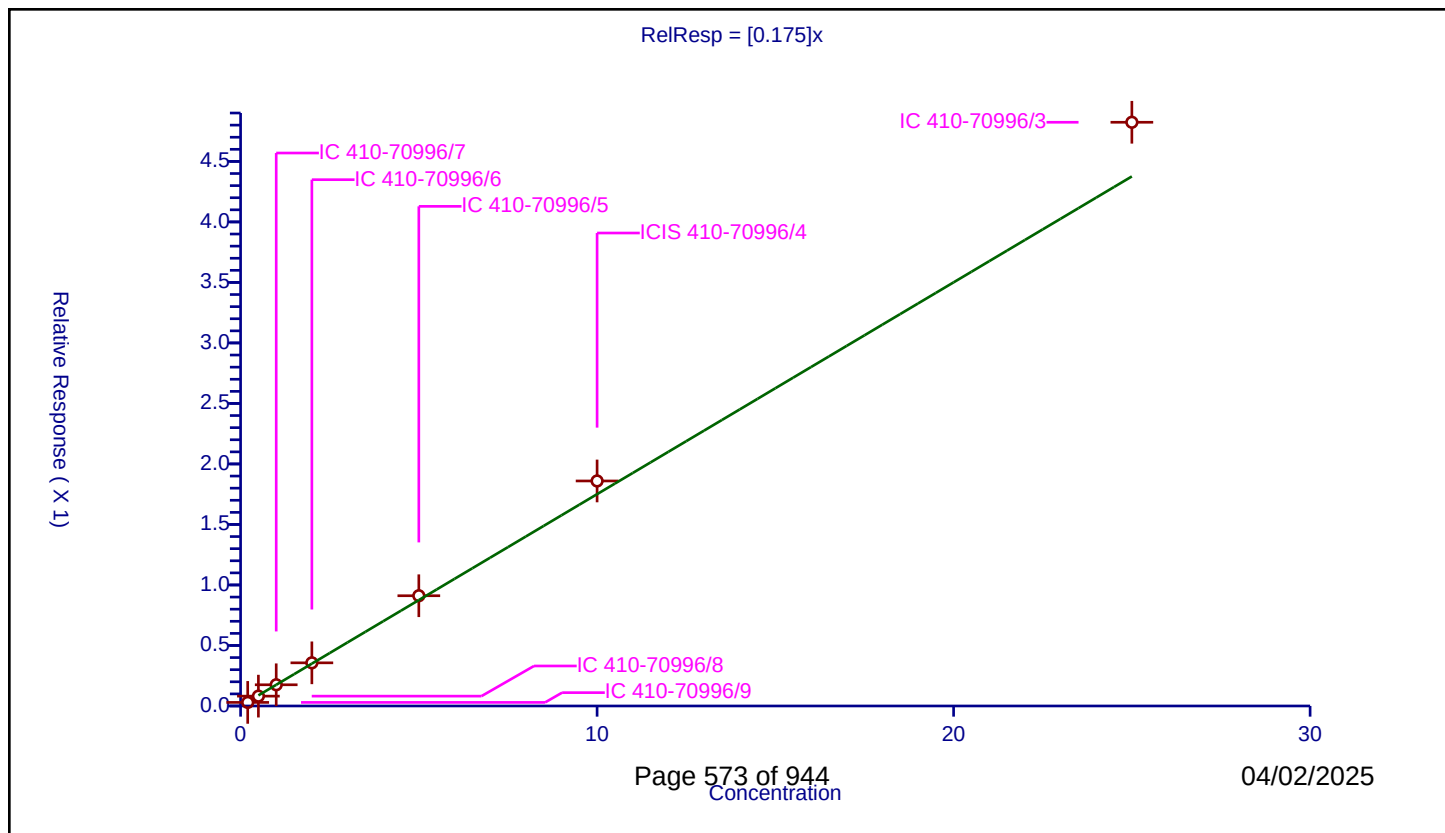
Curve Coefficients

Intercept: 0
Slope: 0.175

Error Coefficients

Standard Error: 356000
Relative Standard Error: 8.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.029577	10.0	1578236.0	0.147887	Y
2	IC 410-70996/8	0.5	0.081327	10.0	1589997.0	0.162654	Y
3	IC 410-70996/7	1.0	0.175259	10.0	1600264.0	0.175259	Y
4	IC 410-70996/6	2.0	0.356751	10.0	1604620.0	0.178376	Y
5	IC 410-70996/5	5.0	0.911058	10.0	1611346.0	0.182212	Y
6	ICIS 410-70996/4	10.0	1.859401	10.0	1636269.0	0.18594	Y
7	IC 410-70996/3	25.0	4.823601	10.0	1658425.0	0.192944	Y



Calibration

/ Isopropylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

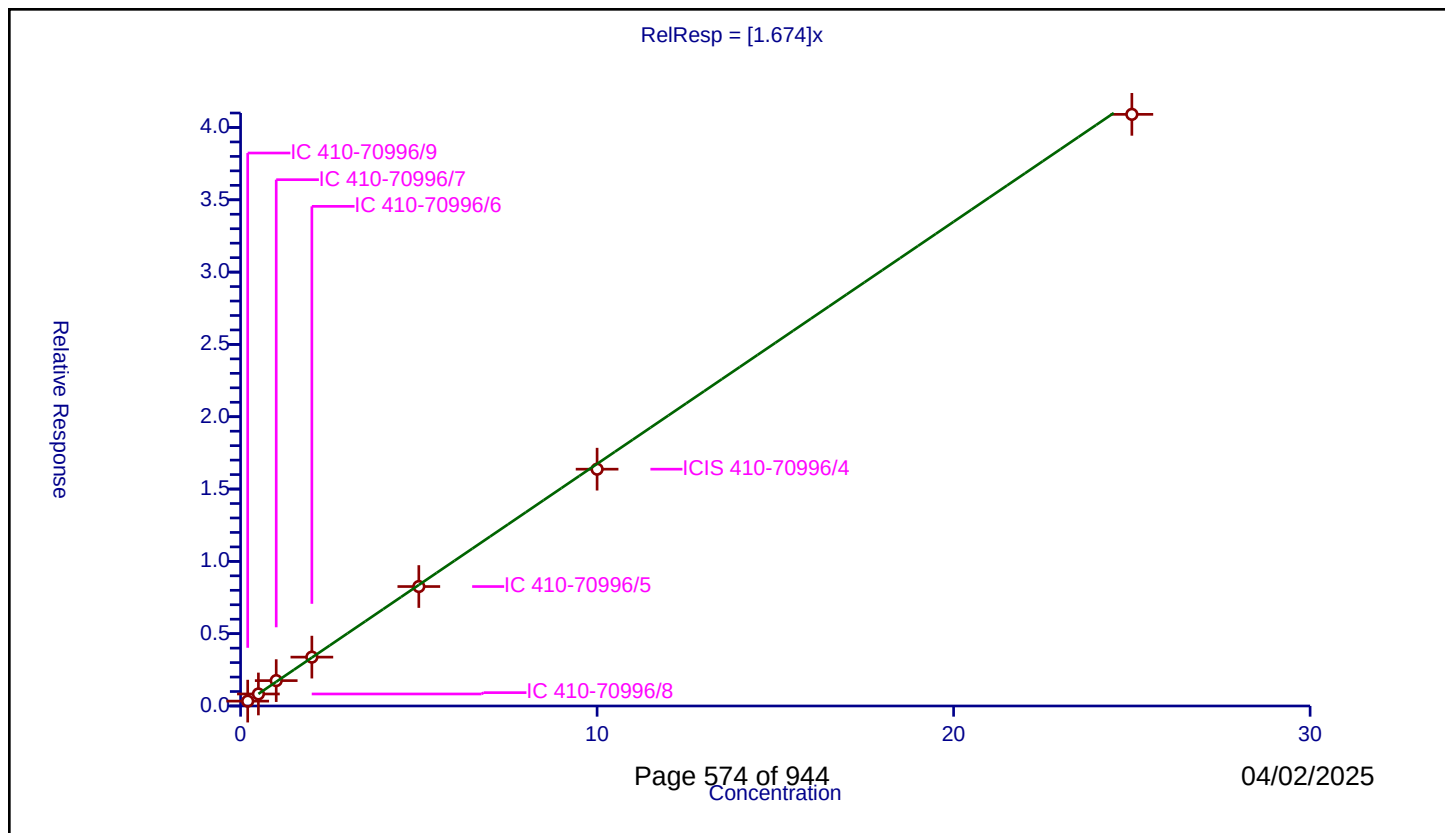
Curve Coefficients

Intercept: 0
 Slope: 1.674

Error Coefficients

Standard Error: 3040000
 Relative Standard Error: 2.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.337149	10.0	1578236.0	1.685743	Y
2	IC 410-70996/8	0.5	0.831385	10.0	1589997.0	1.66277	Y
3	IC 410-70996/7	1.0	1.754204	10.0	1600264.0	1.754204	Y
4	IC 410-70996/6	2.0	3.379292	10.0	1604620.0	1.689646	Y
5	IC 410-70996/5	5.0	8.260181	10.0	1611346.0	1.652036	Y
6	ICIS 410-70996/4	10.0	16.373732	10.0	1636269.0	1.637373	Y
7	IC 410-70996/3	25.0	40.90806	10.0	1658425.0	1.636322	Y



Calibration

/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

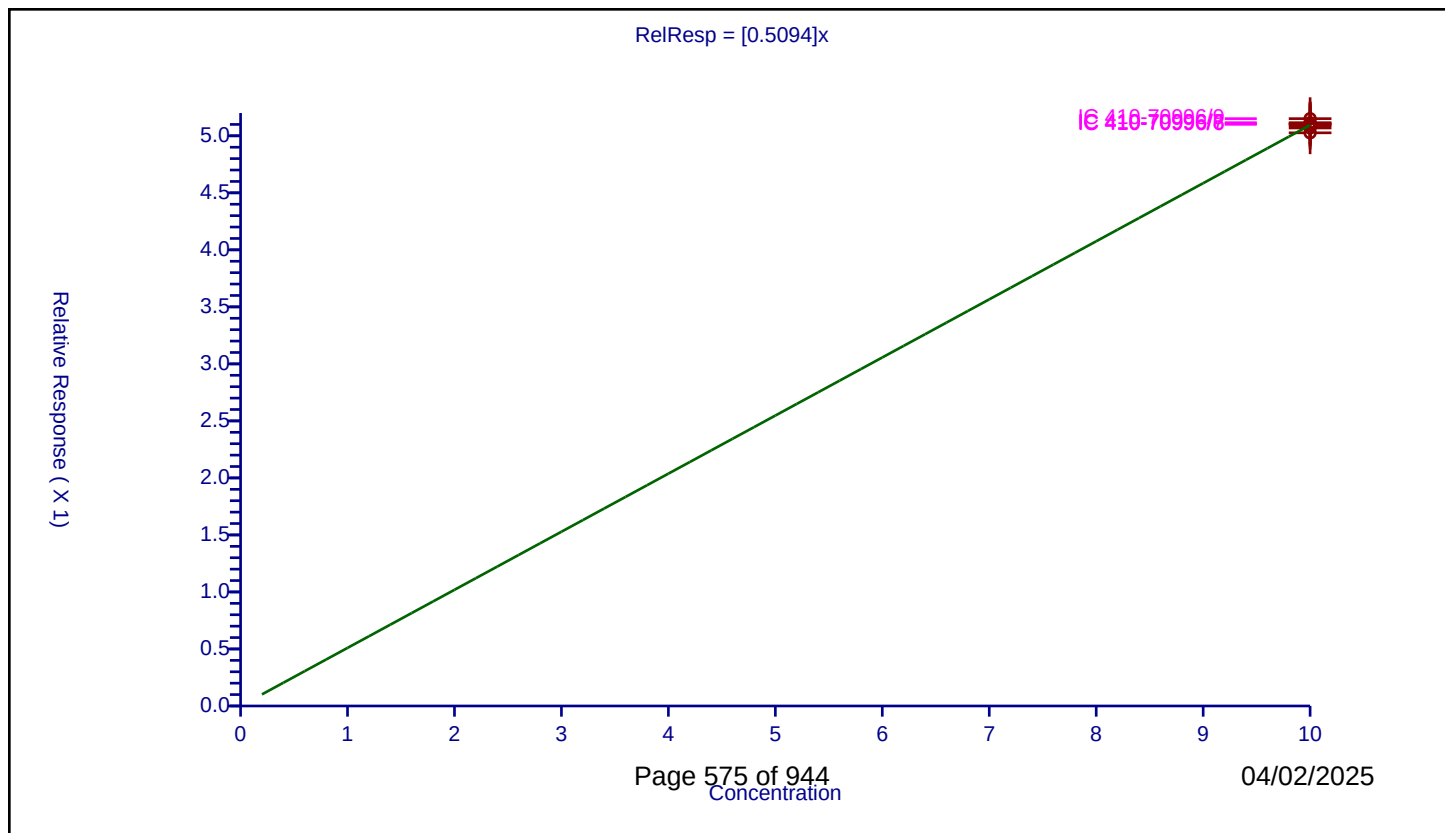
Curve Coefficients

Intercept: 0
 Slope: 0.5094

Error Coefficients

Standard Error: 886000
 Relative Standard Error: 0.8
 Correlation Coefficient: 0
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/3	10.0	5.026317	10.0	1658425.0	0.502632	Y
2	ICIS 410-70996/4	10.0	5.068586	10.0	1636269.0	0.506859	Y
3	IC 410-70996/5	10.0	5.089044	10.0	1611346.0	0.508904	Y
4	IC 410-70996/6	10.0	5.100859	10.0	1604620.0	0.510086	Y
5	IC 410-70996/7	10.0	5.115162	10.0	1600264.0	0.511516	Y
6	IC 410-70996/8	10.0	5.107494	10.0	1589997.0	0.510749	Y
7	IC 410-70996/9	10.0	5.150541	10.0	1578236.0	0.515054	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

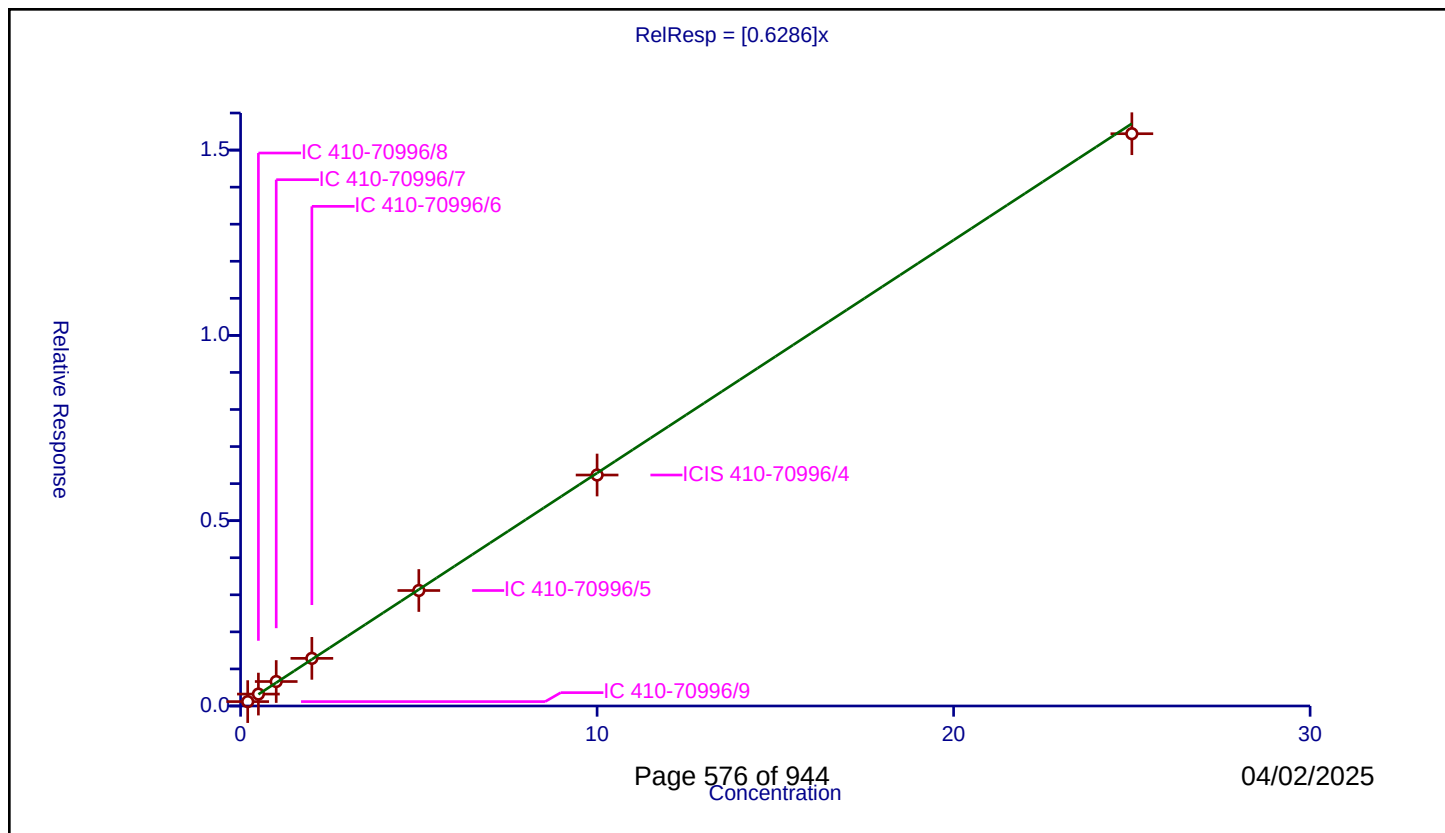
Curve Coefficients

Intercept: 0
Slope: 0.6286

Error Coefficients

Standard Error: 621000
Relative Standard Error: 3.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.118032	10.0	857732.0	0.590161	Y
2	IC 410-70996/8	0.5	0.321383	10.0	861870.0	0.642765	Y
3	IC 410-70996/7	1.0	0.660211	10.0	860391.0	0.660211	Y
4	IC 410-70996/6	2.0	1.28567	10.0	869181.0	0.642835	Y
5	IC 410-70996/5	5.0	3.115913	10.0	878834.0	0.623183	Y
6	ICIS 410-70996/4	10.0	6.232026	10.0	888382.0	0.623203	Y
7	IC 410-70996/3	25.0	15.441781	10.0	896780.0	0.617671	Y



Calibration

/ Bromobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

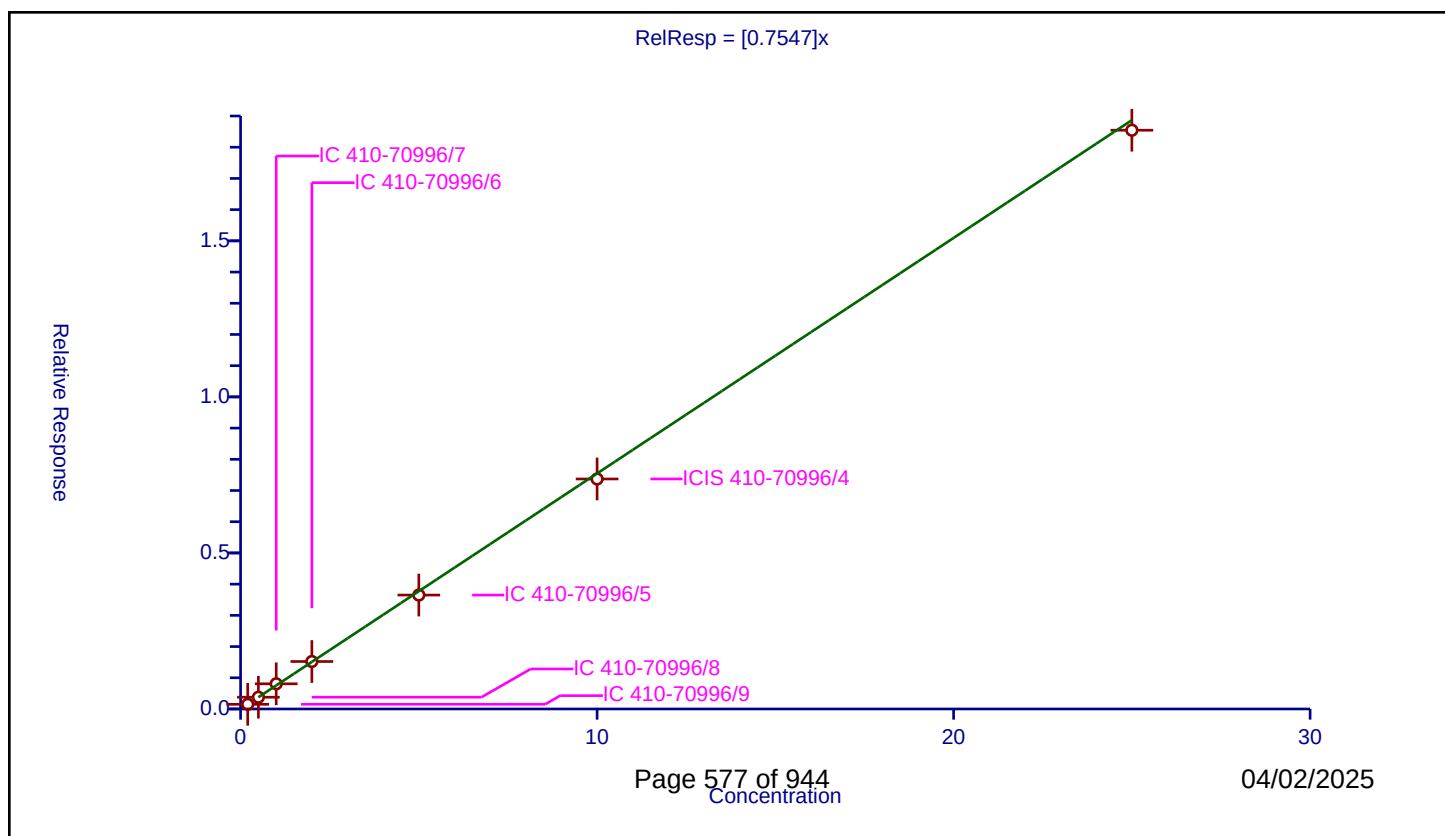
Curve Coefficients

Intercept: 0
Slope: 0.7547

Error Coefficients

Standard Error: 744000
Relative Standard Error: 3.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.150327	10.0	857732.0	0.751633	Y
2	IC 410-70996/8	0.5	0.376878	10.0	861870.0	0.753756	Y
3	IC 410-70996/7	1.0	0.807424	10.0	860391.0	0.807424	Y
4	IC 410-70996/6	2.0	1.521697	10.0	869181.0	0.760848	Y
5	IC 410-70996/5	5.0	3.650963	10.0	878834.0	0.730193	Y
6	ICIS 410-70996/4	10.0	7.370253	10.0	888382.0	0.737025	Y
7	IC 410-70996/3	25.0	18.544994	10.0	896780.0	0.7418	Y



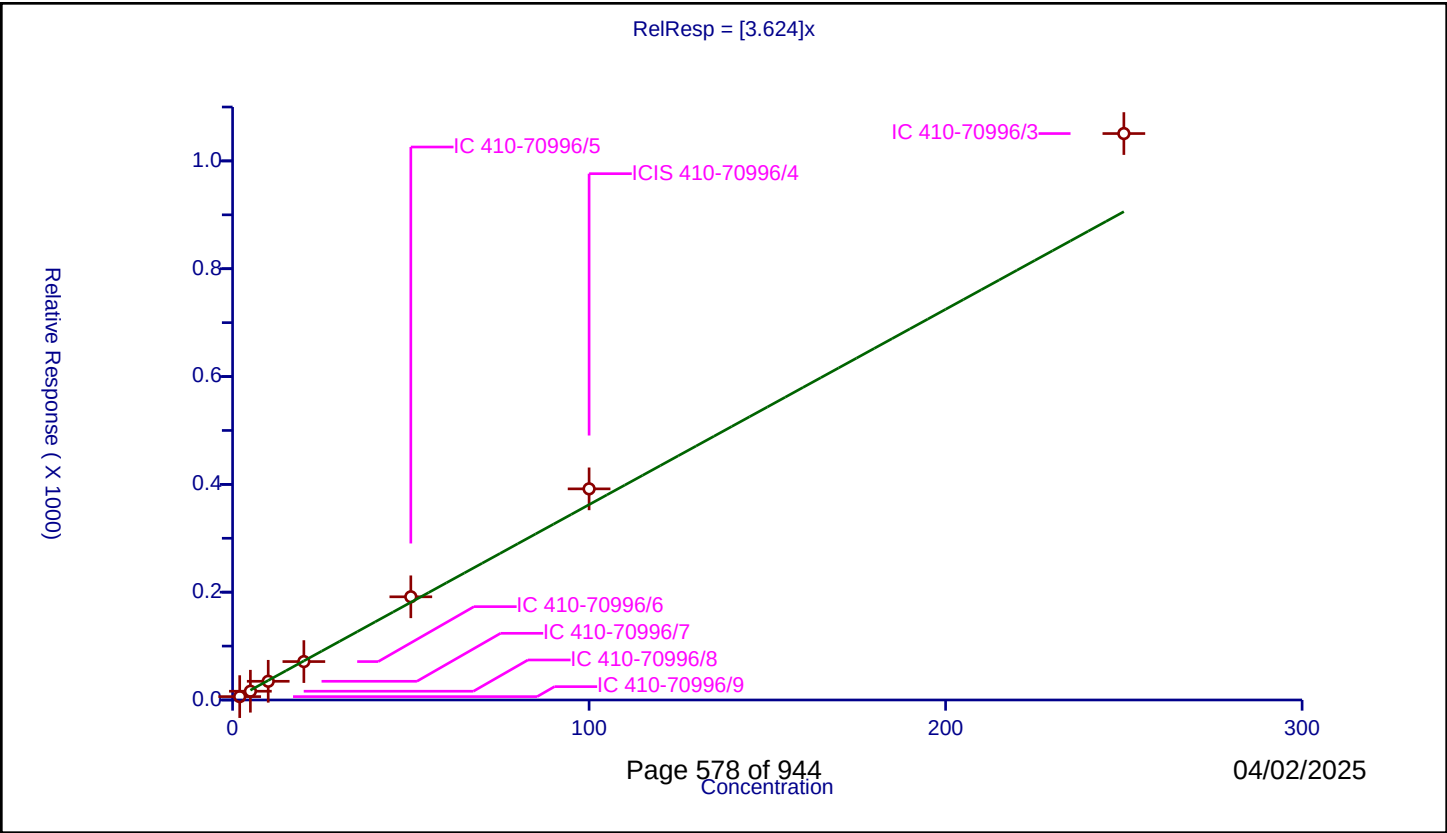
Calibration

/ 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:	3.624
Error Coefficients	
Standard Error:	1670000
Relative Standard Error:	10.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	2.0	6.275612	50.0	184731.0	3.137806	Y
2	IC 410-70996/8	5.0	16.245136	50.0	195834.0	3.249027	Y
3	IC 410-70996/7	10.0	34.681371	50.0	201206.0	3.468137	Y
4	IC 410-70996/6	20.0	71.23699	50.0	195329.0	3.561849	Y
5	IC 410-70996/5	50.0	191.416907	50.0	183343.0	3.828338	Y
6	ICIS 410-70996/4	100.0	391.675712	50.0	186094.0	3.916757	Y
7	IC 410-70996/3	250.0	1050.803645	50.0	177877.0	4.203215	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

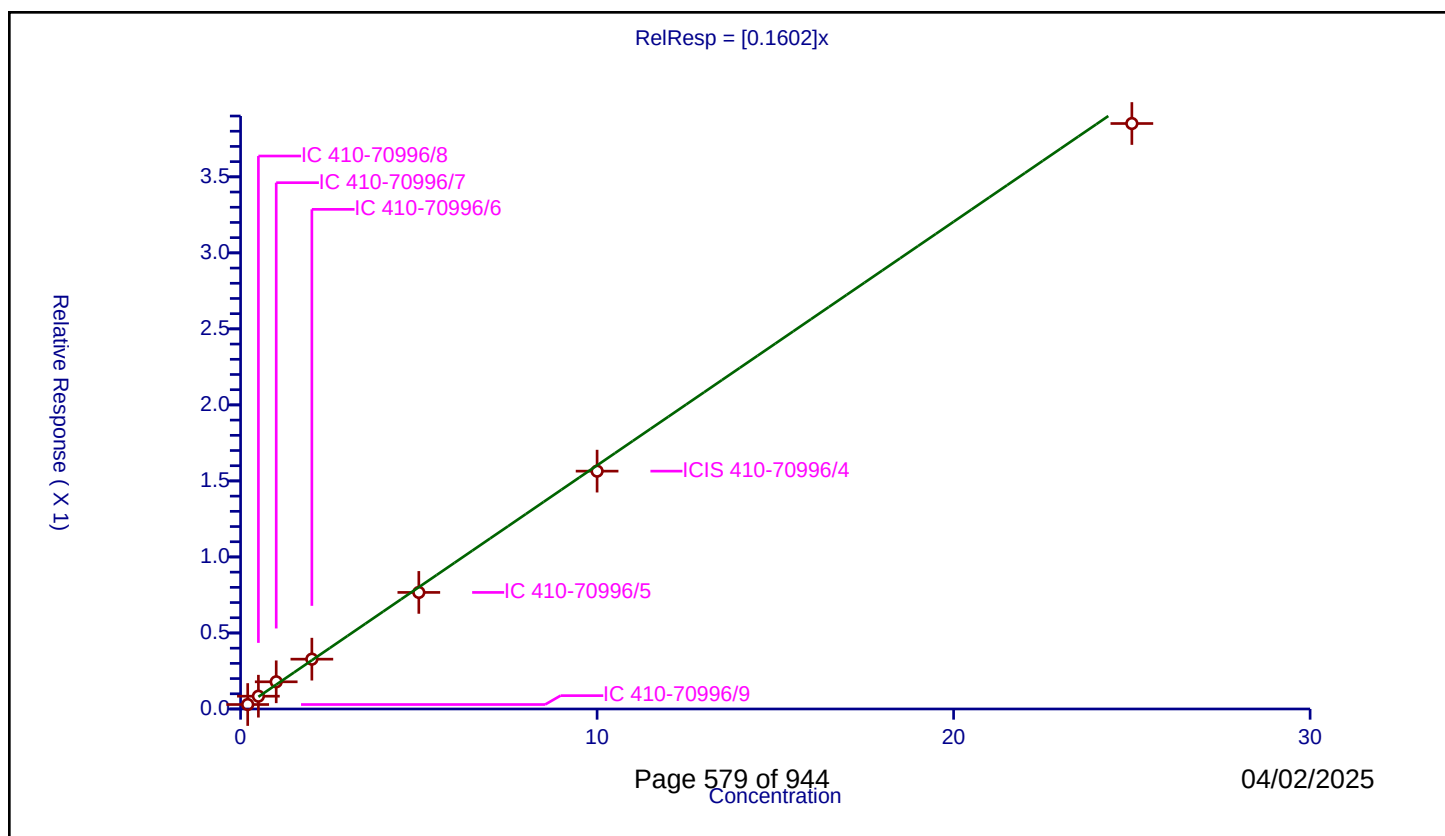
Curve Coefficients

Intercept: 0
Slope: 0.1602

Error Coefficients

Standard Error: 155000
Relative Standard Error: 6.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.029368	10.0	857732.0	0.146841	Y
2	IC 410-70996/8	0.5	0.084166	10.0	861870.0	0.168332	Y
3	IC 410-70996/7	1.0	0.178721	10.0	860391.0	0.178721	Y
4	IC 410-70996/6	2.0	0.327791	10.0	869181.0	0.163896	Y
5	IC 410-70996/5	5.0	0.766789	10.0	878834.0	0.153358	Y
6	ICIS 410-70996/4	10.0	1.564417	10.0	888382.0	0.156442	Y
7	IC 410-70996/3	25.0	3.850643	10.0	896780.0	0.154026	Y



Calibration

/ N-Propylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

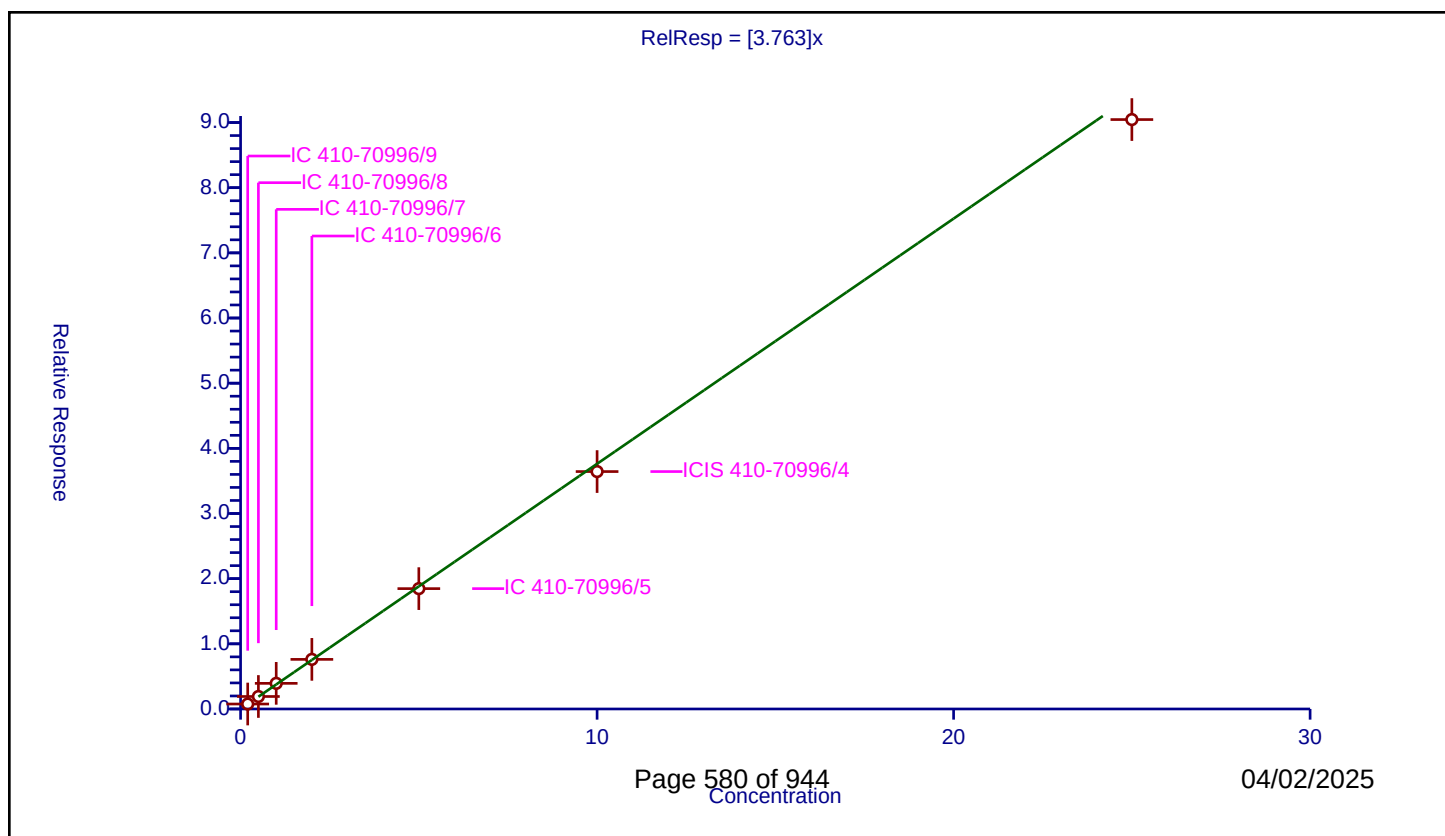
Curve Coefficients

Intercept: 0
Slope: 3.763

Error Coefficients

Standard Error: 3640000
Relative Standard Error: 3.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.761695	10.0	857732.0	3.808474	Y
2	IC 410-70996/8	0.5	1.915718	10.0	861870.0	3.831436	Y
3	IC 410-70996/7	1.0	3.934223	10.0	860391.0	3.934223	Y
4	IC 410-70996/6	2.0	7.615721	10.0	869181.0	3.807861	Y
5	IC 410-70996/5	5.0	18.471304	10.0	878834.0	3.694261	Y
6	ICIS 410-70996/4	10.0	36.436781	10.0	888382.0	3.643678	Y
7	IC 410-70996/3	25.0	90.454905	10.0	896780.0	3.618196	Y



Calibration

/ 2-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

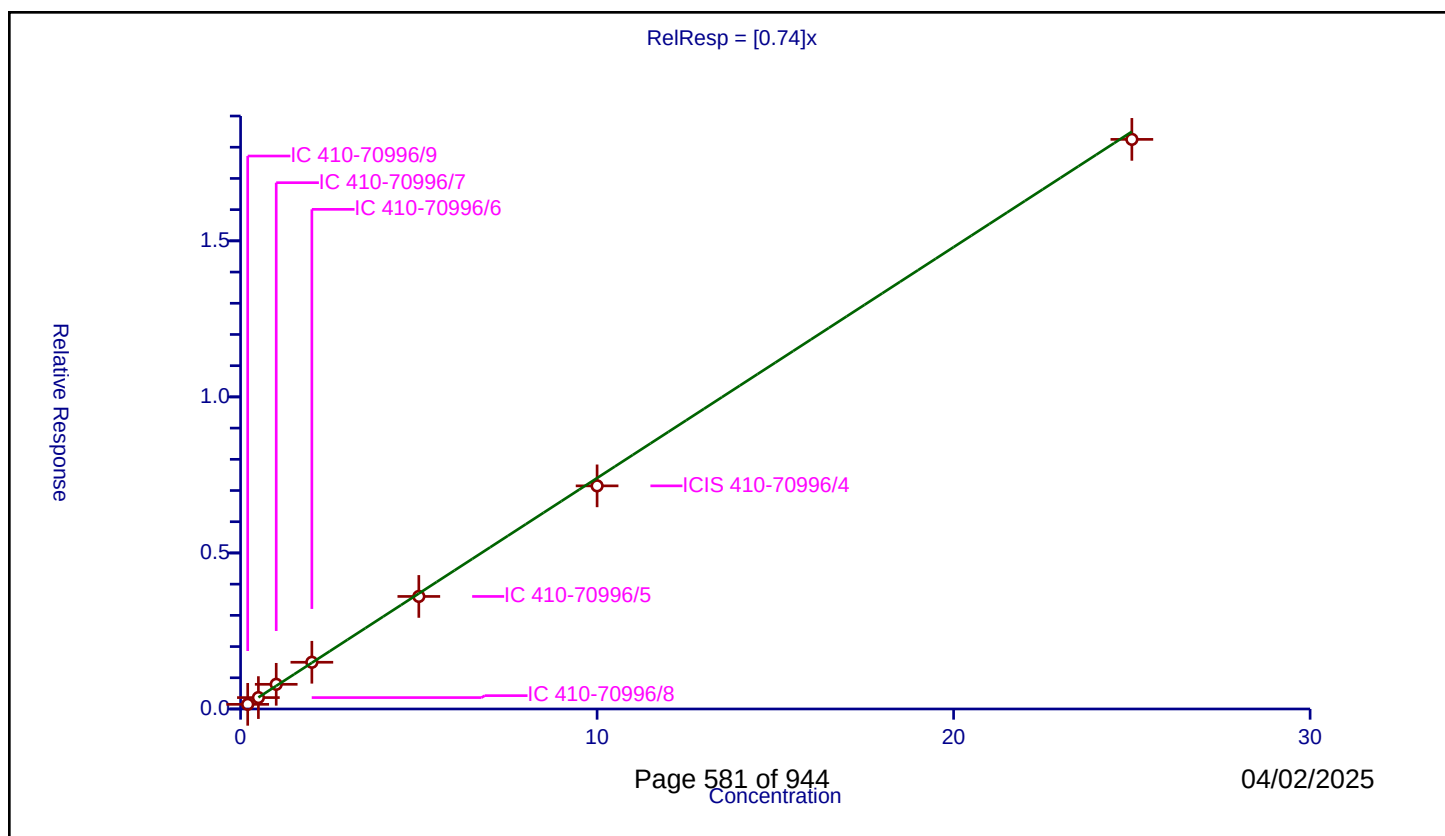
Curve Coefficients

Intercept: 0
Slope: 0.74

Error Coefficients

Standard Error: 731000
Relative Standard Error: 3.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.148741	10.0	857732.0	0.743705	Y
2	IC 410-70996/8	0.5	0.36531	10.0	861870.0	0.730621	Y
3	IC 410-70996/7	1.0	0.790606	10.0	860391.0	0.790606	Y
4	IC 410-70996/6	2.0	1.49726	10.0	869181.0	0.74863	Y
5	IC 410-70996/5	5.0	3.606597	10.0	878834.0	0.721319	Y
6	ICIS 410-70996/4	10.0	7.149661	10.0	888382.0	0.714966	Y
7	IC 410-70996/3	25.0	18.251656	10.0	896780.0	0.730066	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

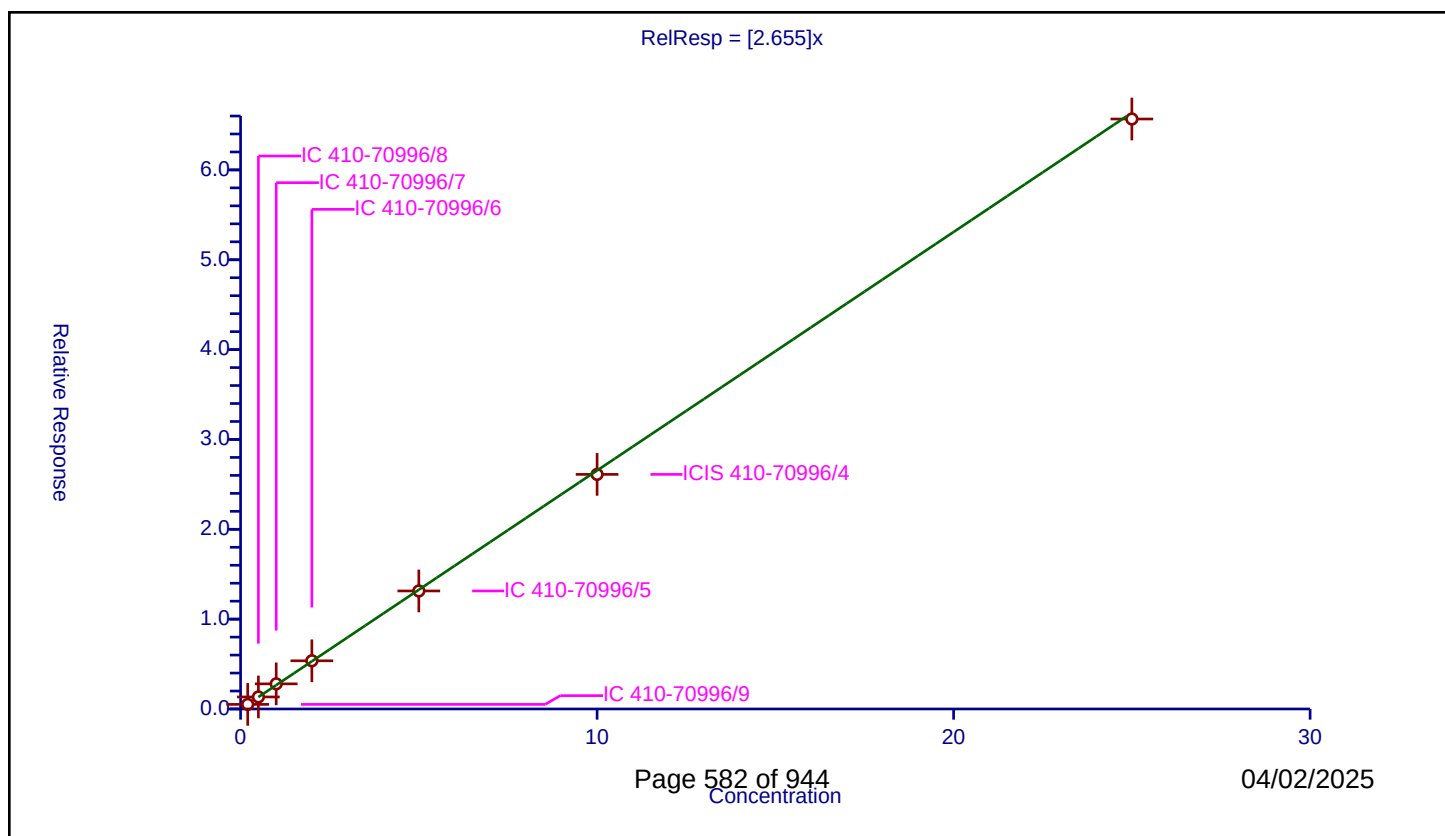
Curve Coefficients

Intercept: 0
Slope: 2.655

Error Coefficients

Standard Error: 2640000
Relative Standard Error: 2.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.511582	10.0	857732.0	2.557909	Y
2	IC 410-70996/8	0.5	1.338624	10.0	861870.0	2.677248	Y
3	IC 410-70996/7	1.0	2.798588	10.0	860391.0	2.798588	Y
4	IC 410-70996/6	2.0	5.366155	10.0	869181.0	2.683078	Y
5	IC 410-70996/5	5.0	13.137123	10.0	878834.0	2.627425	Y
6	ICIS 410-70996/4	10.0	26.111009	10.0	888382.0	2.611101	Y
7	IC 410-70996/3	25.0	65.668302	10.0	896780.0	2.626732	Y



Calibration

/ 4-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

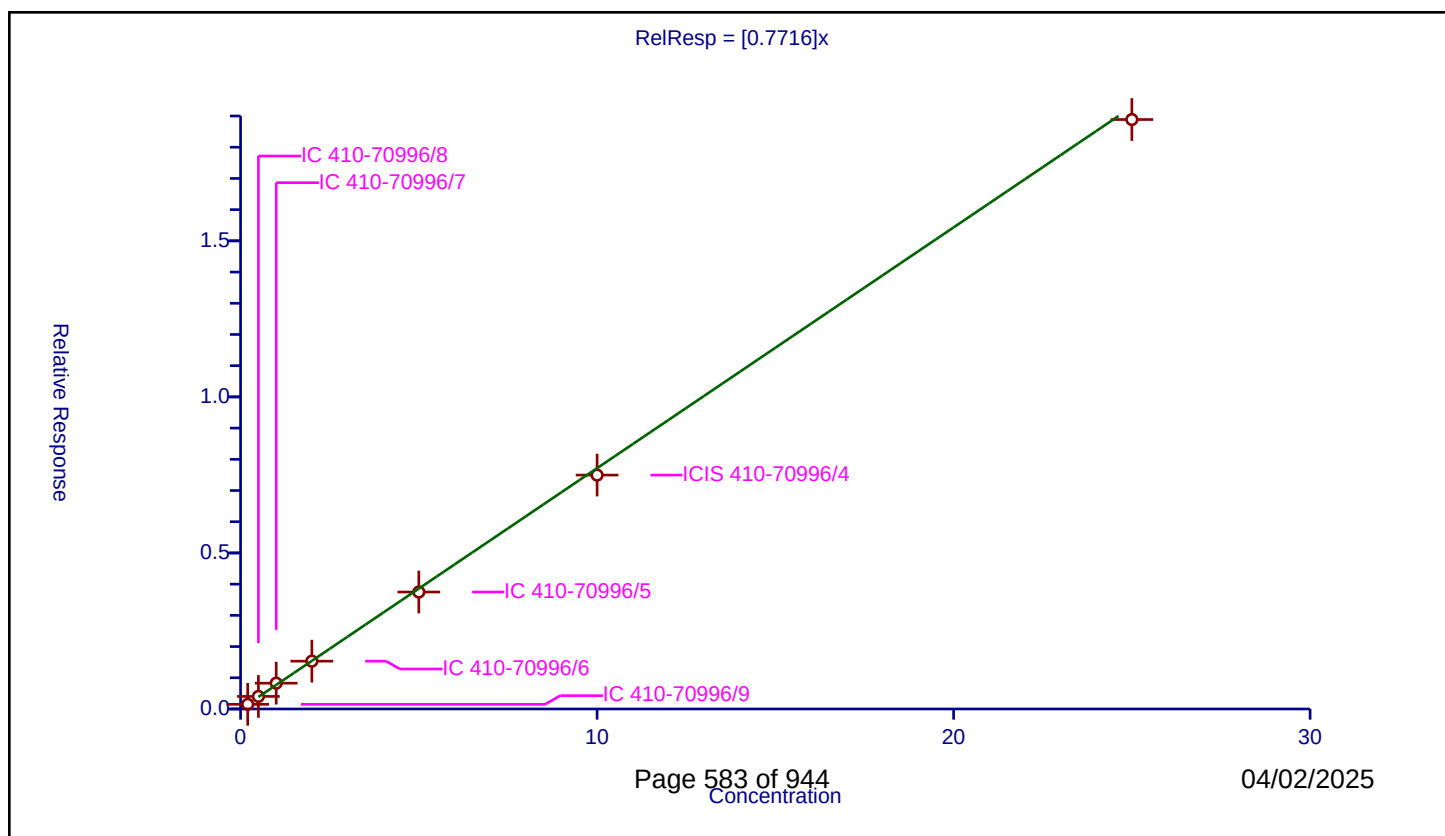
Curve Coefficients

Intercept: 0
Slope: 0.7716

Error Coefficients

Standard Error: 758000
Relative Standard Error: 4.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.149674	10.0	857732.0	0.748369	Y
2	IC 410-70996/8	0.5	0.402764	10.0	861870.0	0.805528	Y
3	IC 410-70996/7	1.0	0.826334	10.0	860391.0	0.826334	Y
4	IC 410-70996/6	2.0	1.532109	10.0	869181.0	0.766054	Y
5	IC 410-70996/5	5.0	3.748194	10.0	878834.0	0.749639	Y
6	ICIS 410-70996/4	10.0	7.494997	10.0	888382.0	0.7495	Y
7	IC 410-70996/3	25.0	18.88733	10.0	896780.0	0.755493	Y



Calibration

/ tert-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

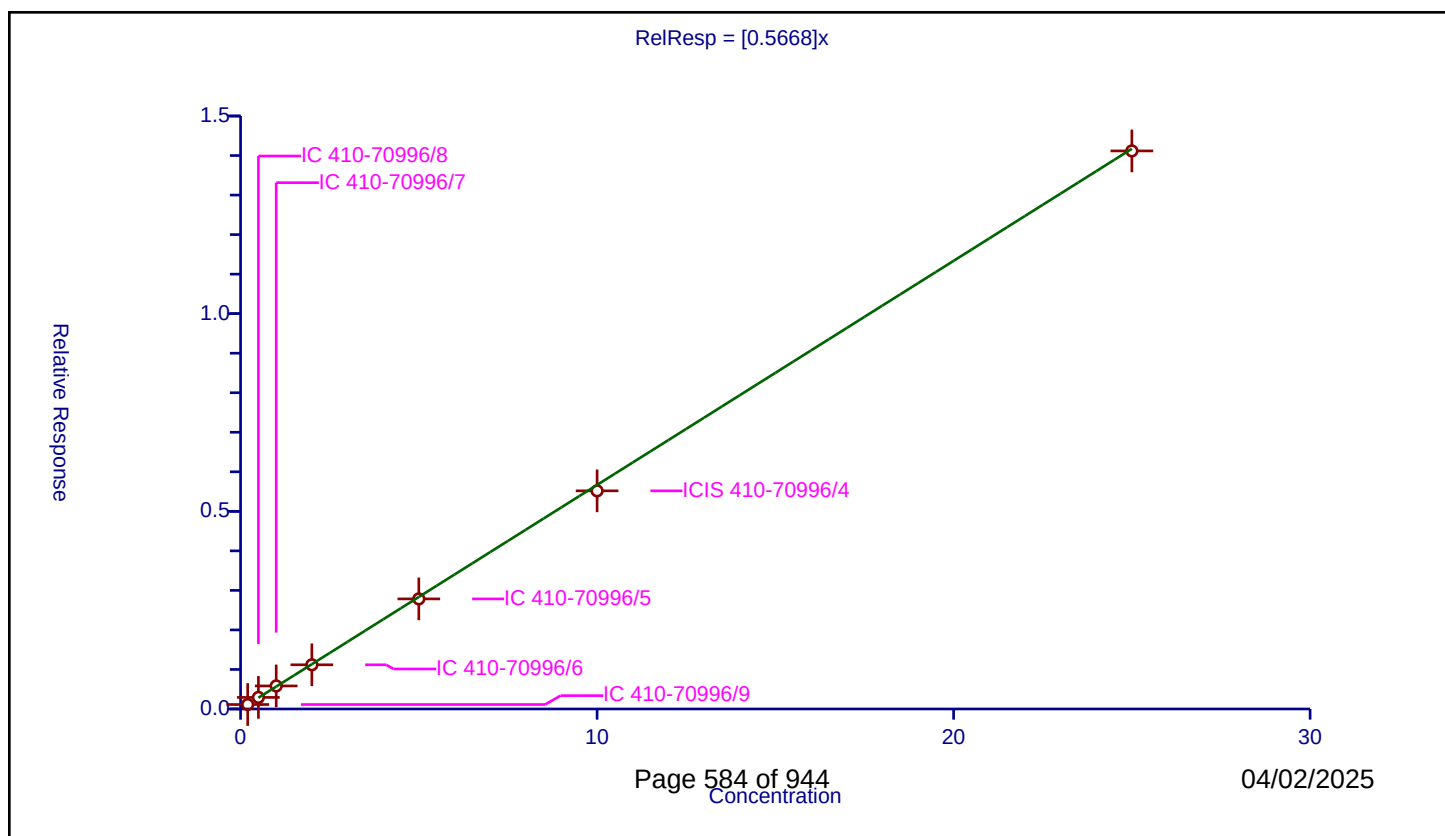
Curve Coefficients

Intercept: 0
Slope: 0.5668

Error Coefficients

Standard Error: 565000
Relative Standard Error: 2.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.113194	10.0	857732.0	0.565969	Y
2	IC 410-70996/8	0.5	0.292979	10.0	861870.0	0.585958	Y
3	IC 410-70996/7	1.0	0.58327	10.0	860391.0	0.58327	Y
4	IC 410-70996/6	2.0	1.118283	10.0	869181.0	0.559141	Y
5	IC 410-70996/5	5.0	2.784872	10.0	878834.0	0.556974	Y
6	ICIS 410-70996/4	10.0	5.518437	10.0	888382.0	0.551844	Y
7	IC 410-70996/3	25.0	14.116796	10.0	896780.0	0.564672	Y



Calibration

/ Pentachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

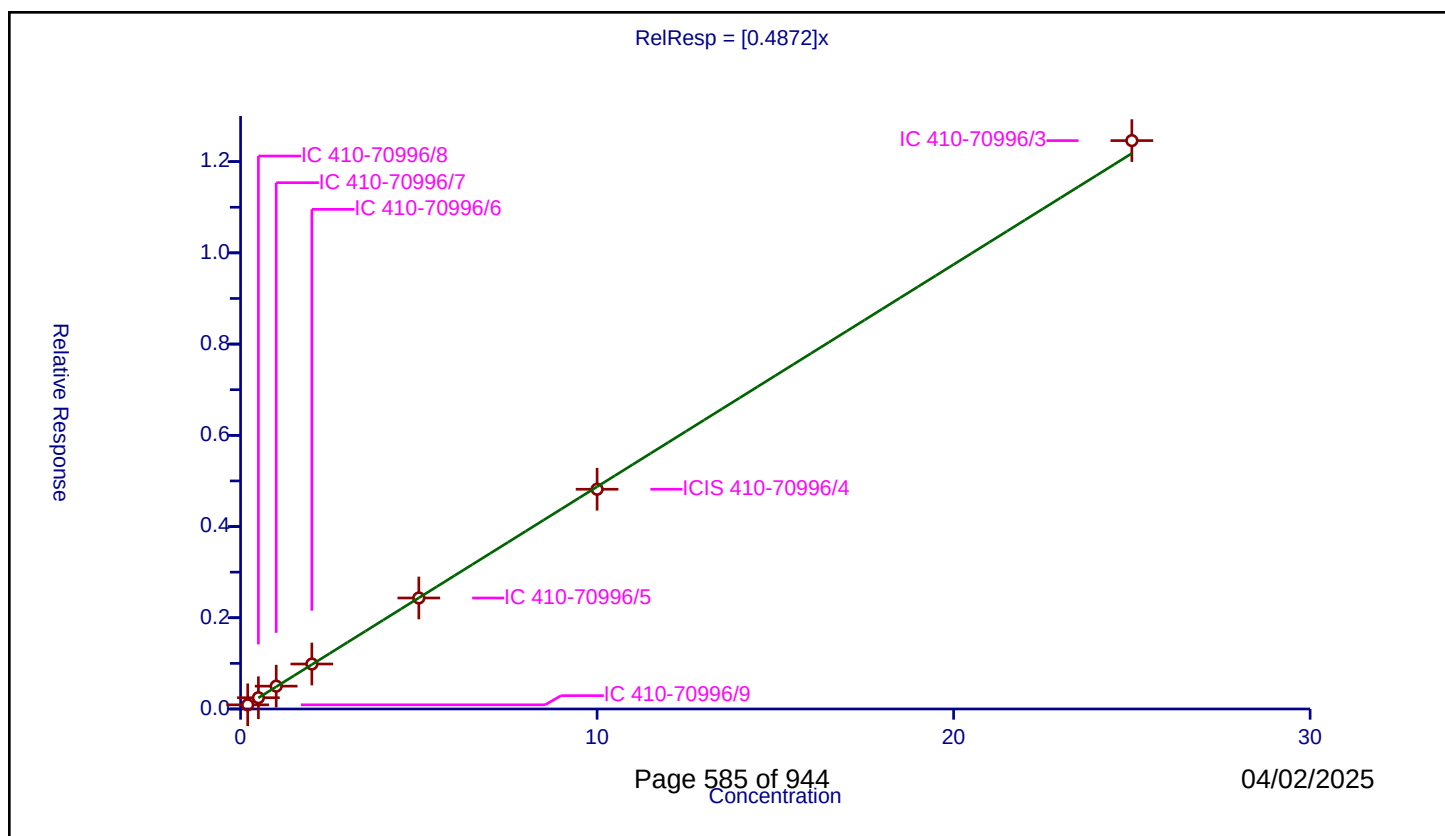
Curve Coefficients

Intercept: 0
Slope: 0.4872

Error Coefficients

Standard Error: 498000
Relative Standard Error: 3.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.091357	10.0	857732.0	0.456786	Y
2	IC 410-70996/8	0.5	0.246743	10.0	861870.0	0.493485	Y
3	IC 410-70996/7	1.0	0.50054	10.0	860391.0	0.50054	Y
4	IC 410-70996/6	2.0	0.985813	10.0	869181.0	0.492907	Y
5	IC 410-70996/5	5.0	2.433577	10.0	878834.0	0.486715	Y
6	ICIS 410-70996/4	10.0	4.817511	10.0	888382.0	0.481751	Y
7	IC 410-70996/3	25.0	12.461038	10.0	896780.0	0.498442	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

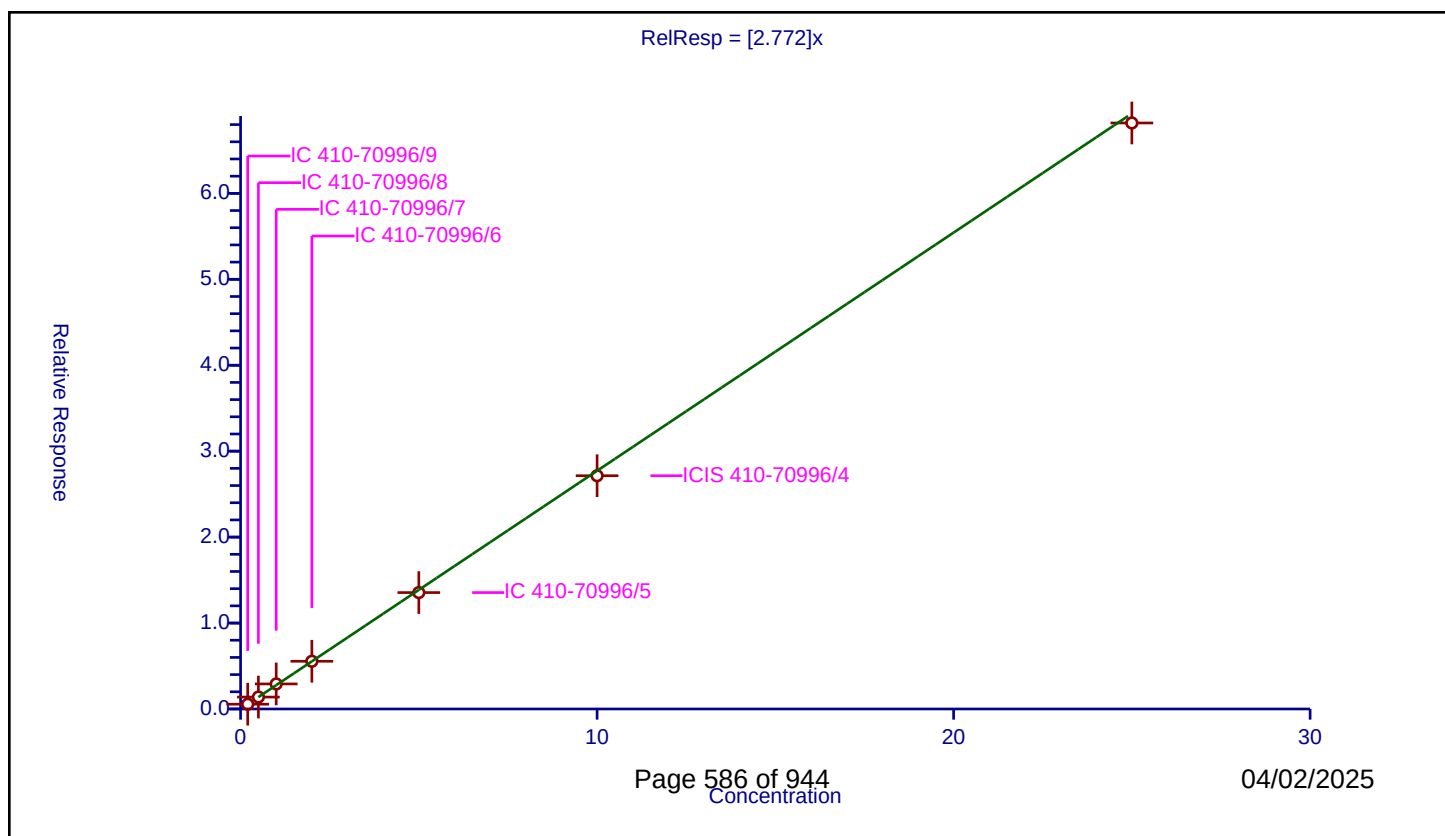
Curve Coefficients

Intercept: 0
 Slope: 2.772

Error Coefficients

Standard Error: 2740000
 Relative Standard Error: 2.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.555803	10.0	857732.0	2.779015	Y
2	IC 410-70996/8	0.5	1.389084	10.0	861870.0	2.778168	Y
3	IC 410-70996/7	1.0	2.916767	10.0	860391.0	2.916767	Y
4	IC 410-70996/6	2.0	5.552583	10.0	869181.0	2.776292	Y
5	IC 410-70996/5	5.0	13.547211	10.0	878834.0	2.709442	Y
6	ICIS 410-70996/4	10.0	27.142389	10.0	888382.0	2.714239	Y
7	IC 410-70996/3	25.0	68.188686	10.0	896780.0	2.727547	Y



Calibration

/ sec-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

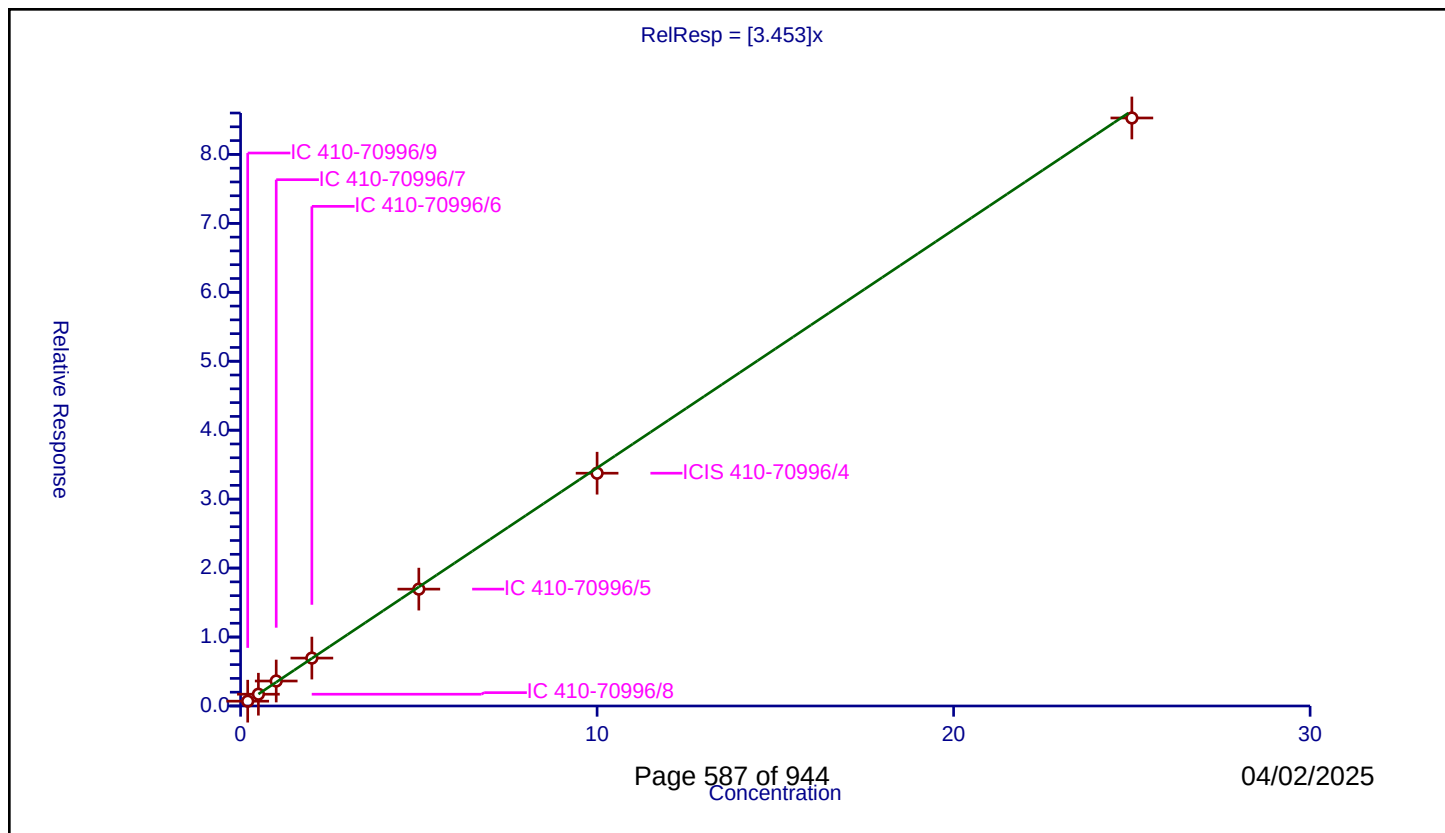
Curve Coefficients

Intercept: 0
Slope: 3.453

Error Coefficients

Standard Error: 3420000
Relative Standard Error: 2.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.696406	10.0	857732.0	3.482032	Y
2	IC 410-70996/8	0.5	1.70868	10.0	861870.0	3.41736	Y
3	IC 410-70996/7	1.0	3.623457	10.0	860391.0	3.623457	Y
4	IC 410-70996/6	2.0	6.948553	10.0	869181.0	3.474276	Y
5	IC 410-70996/5	5.0	16.947706	10.0	878834.0	3.389541	Y
6	ICIS 410-70996/4	10.0	33.763043	10.0	888382.0	3.376304	Y
7	IC 410-70996/3	25.0	85.28018	10.0	896780.0	3.411207	Y



Calibration

/ 1,3-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

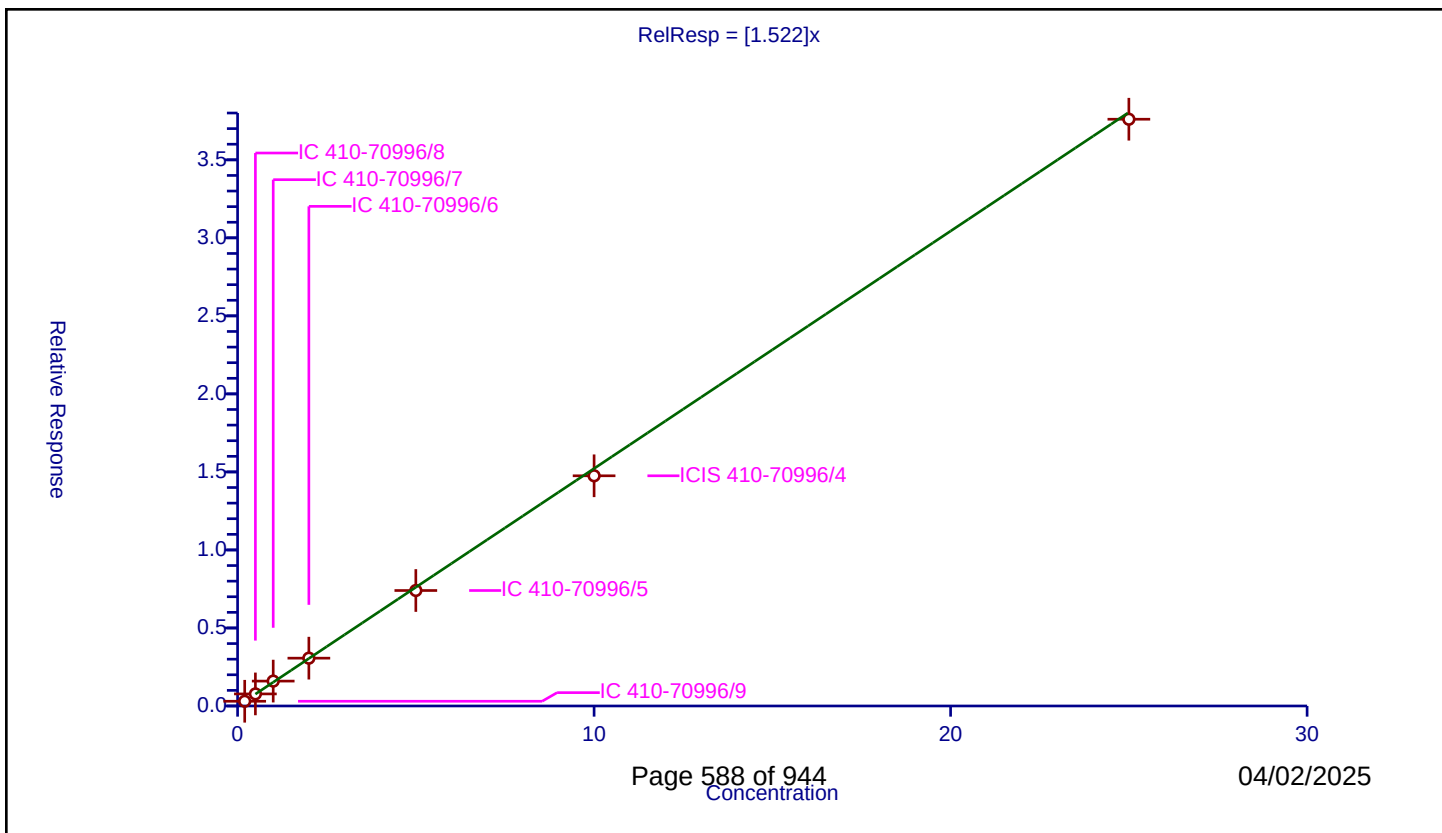
Curve Coefficients

Intercept: 0
 Slope: 1.522

Error Coefficients

Standard Error: 1510000
 Relative Standard Error: 2.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.303918	10.0	857732.0	1.519589	Y
2	IC 410-70996/8	0.5	0.772854	10.0	861870.0	1.545709	Y
3	IC 410-70996/7	1.0	1.594973	10.0	860391.0	1.594973	Y
4	IC 410-70996/6	2.0	3.065023	10.0	869181.0	1.532512	Y
5	IC 410-70996/5	5.0	7.401045	10.0	878834.0	1.480209	Y
6	ICIS 410-70996/4	10.0	14.75246	10.0	888382.0	1.475246	Y
7	IC 410-70996/3	25.0	37.600995	10.0	896780.0	1.50404	Y



Calibration

/ 4-Isopropyltoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

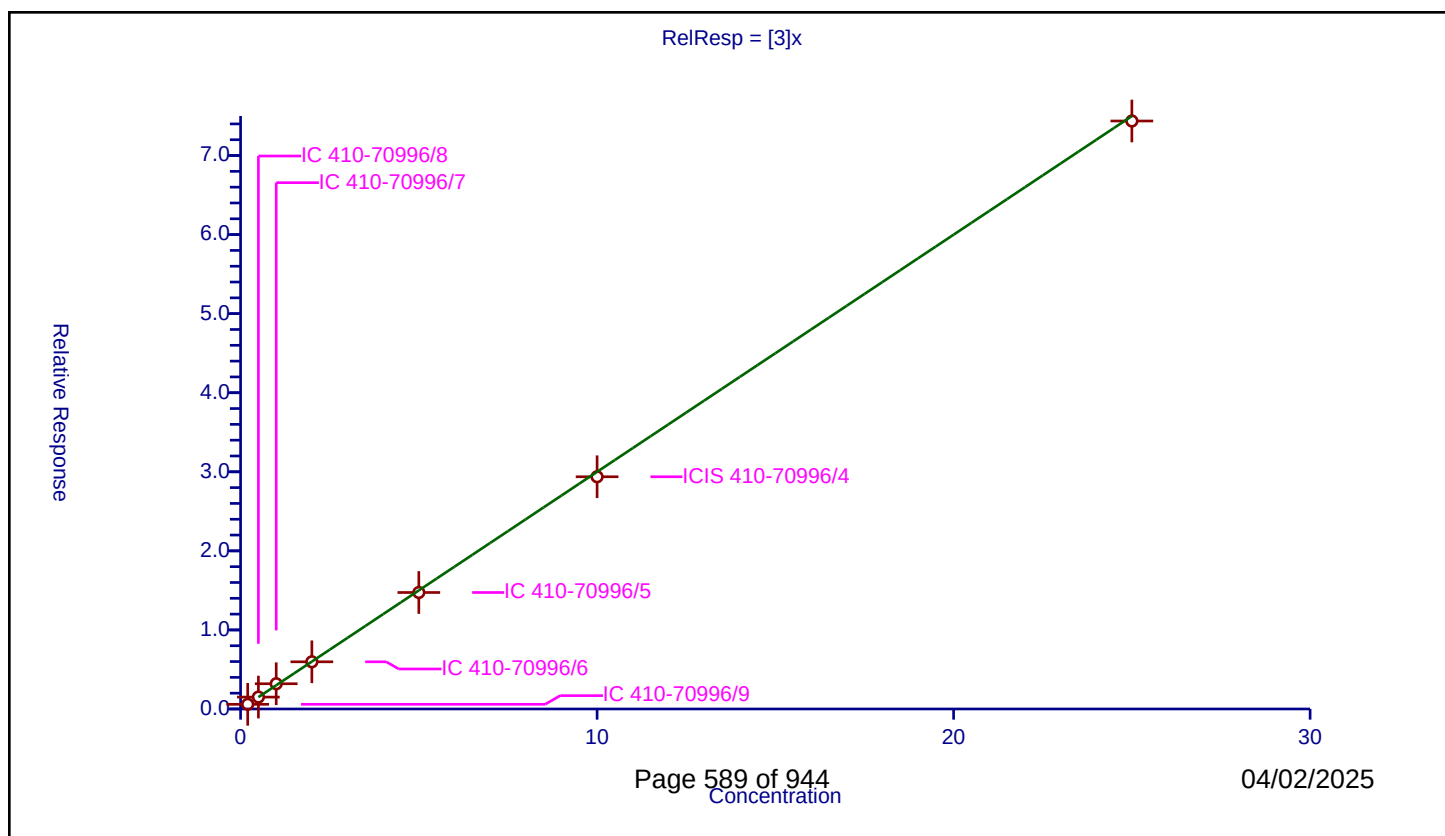
Curve Coefficients

Intercept: 0
 Slope: 3

Error Coefficients

Standard Error: 2980000
 Relative Standard Error: 3.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.590394	10.0	857732.0	2.951971	Y
2	IC 410-70996/8	0.5	1.504345	10.0	861870.0	3.00869	Y
3	IC 410-70996/7	1.0	3.192467	10.0	860391.0	3.192467	Y
4	IC 410-70996/6	2.0	5.969367	10.0	869181.0	2.984683	Y
5	IC 410-70996/5	5.0	14.734136	10.0	878834.0	2.946827	Y
6	ICIS 410-70996/4	10.0	29.373952	10.0	888382.0	2.937395	Y
7	IC 410-70996/3	25.0	74.369132	10.0	896780.0	2.974765	Y



Calibration

/ 1,4-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

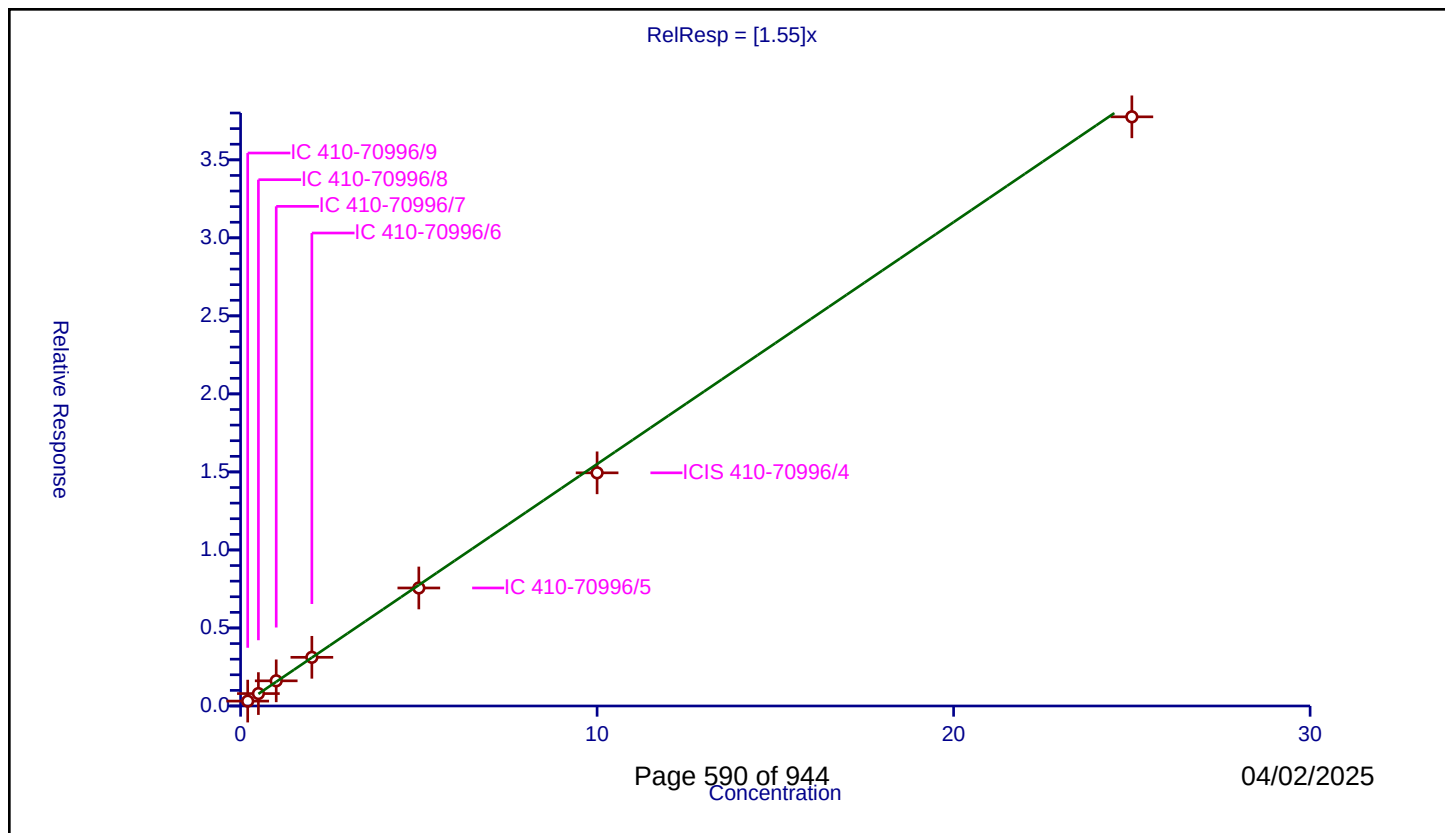
Curve Coefficients

Intercept: 0
Slope: 1.55

Error Coefficients

Standard Error: 1510000
Relative Standard Error: 2.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.314399	10.0	857732.0	1.571995	Y
2	IC 410-70996/8	0.5	0.79519	10.0	861870.0	1.590379	Y
3	IC 410-70996/7	1.0	1.612441	10.0	860391.0	1.612441	Y
4	IC 410-70996/6	2.0	3.119972	10.0	869181.0	1.559986	Y
5	IC 410-70996/5	5.0	7.563283	10.0	878834.0	1.512657	Y
6	ICIS 410-70996/4	10.0	14.941894	10.0	888382.0	1.494189	Y
7	IC 410-70996/3	25.0	37.756083	10.0	896780.0	1.510243	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

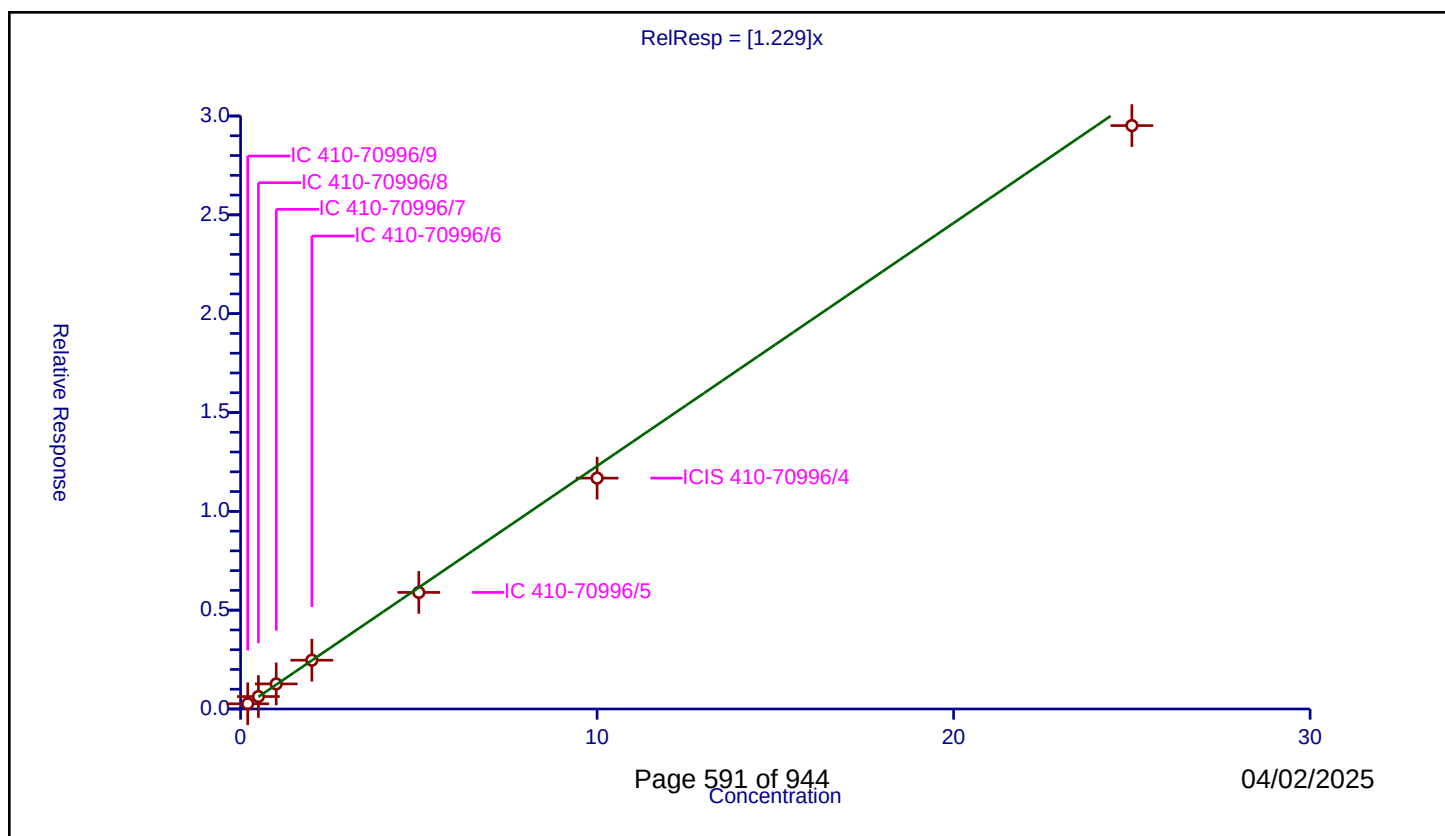
Curve Coefficients

Intercept: 0
 Slope: 1.229

Error Coefficients

Standard Error: 1180000
 Relative Standard Error: 4.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.263299	10.0	857732.0	1.316495	Y
2	IC 410-70996/8	0.5	0.628714	10.0	861870.0	1.257429	Y
3	IC 410-70996/7	1.0	1.268574	10.0	860391.0	1.268574	Y
4	IC 410-70996/6	2.0	2.468128	10.0	869181.0	1.234064	Y
5	IC 410-70996/5	5.0	5.898031	10.0	878834.0	1.179606	Y
6	ICIS 410-70996/4	10.0	11.680268	10.0	888382.0	1.168027	Y
7	IC 410-70996/3	25.0	29.516169	10.0	896780.0	1.180647	Y



Calibration

/ Benzyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

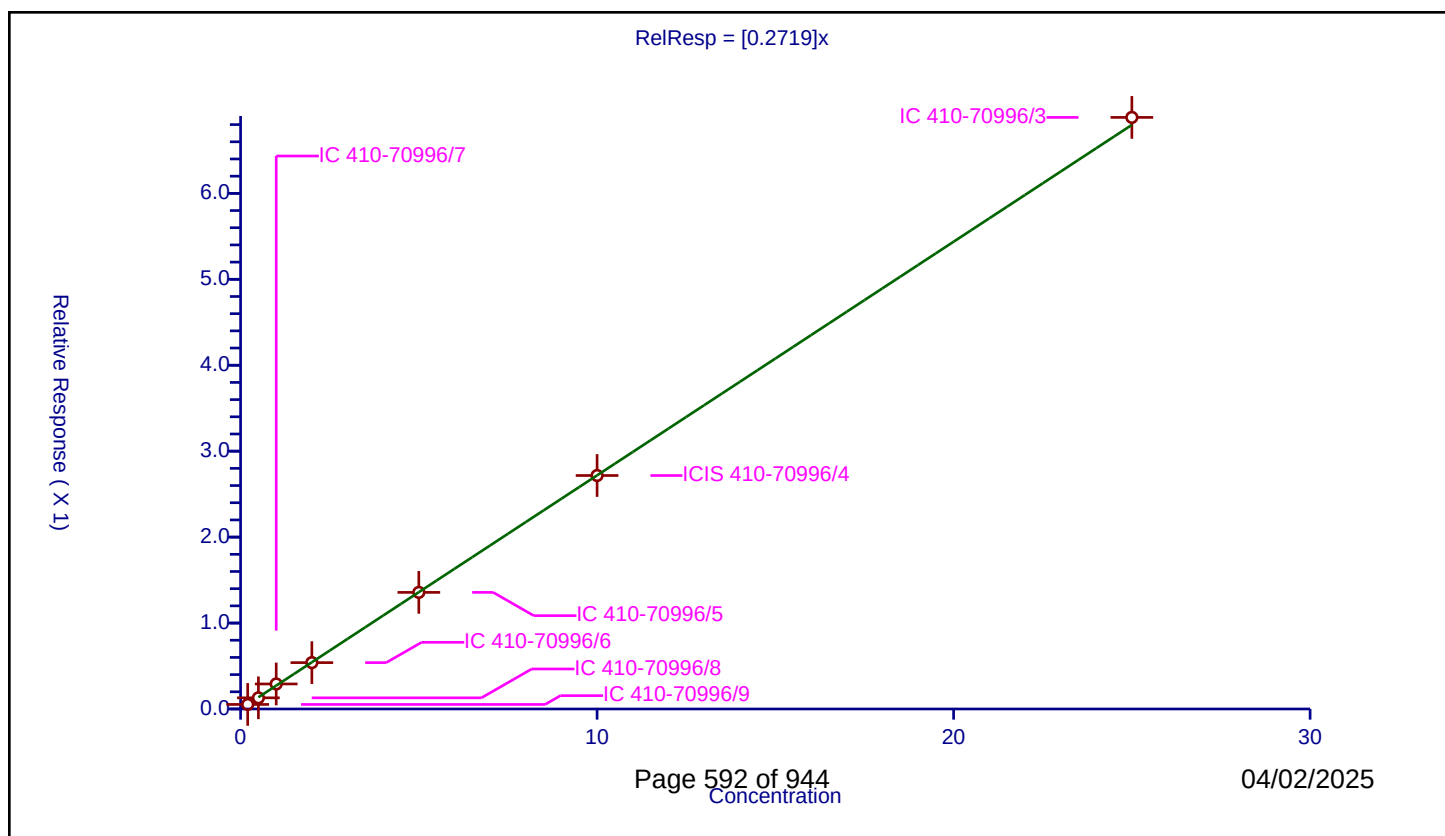
Curve Coefficients

Intercept: 0
Slope: 0.2719

Error Coefficients

Standard Error: 276000
Relative Standard Error: 3.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.052814	10.0	857732.0	0.264068	Y
2	IC 410-70996/8	0.5	0.129741	10.0	861870.0	0.259482	Y
3	IC 410-70996/7	1.0	0.291321	10.0	860391.0	0.291321	Y
4	IC 410-70996/6	2.0	0.539531	10.0	869181.0	0.269765	Y
5	IC 410-70996/5	5.0	1.356741	10.0	878834.0	0.271348	Y
6	ICIS 410-70996/4	10.0	2.716962	10.0	888382.0	0.271696	Y
7	IC 410-70996/3	25.0	6.884018	10.0	896780.0	0.275361	Y



Calibration

/ n-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

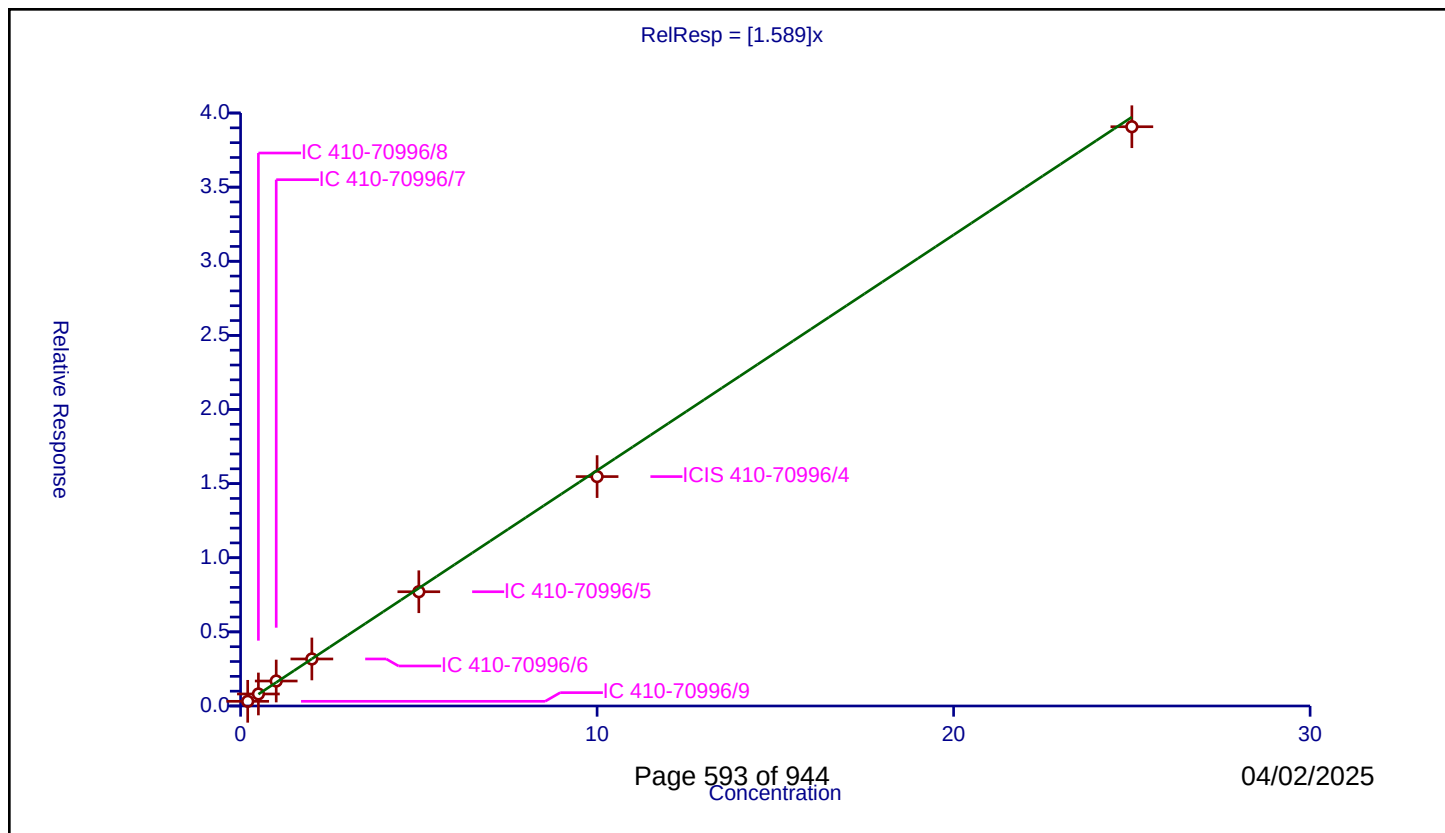
Curve Coefficients

Intercept: 0
Slope: 1.589

Error Coefficients

Standard Error: 1570000
Relative Standard Error: 3.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.316089	10.0	857732.0	1.580447	Y
2	IC 410-70996/8	0.5	0.809821	10.0	861870.0	1.619641	Y
3	IC 410-70996/7	1.0	1.684804	10.0	860391.0	1.684804	Y
4	IC 410-70996/6	2.0	3.172021	10.0	869181.0	1.58601	Y
5	IC 410-70996/5	5.0	7.707895	10.0	878834.0	1.541579	Y
6	ICIS 410-70996/4	10.0	15.4751	10.0	888382.0	1.54751	Y
7	IC 410-70996/3	25.0	39.075894	10.0	896780.0	1.563036	Y



Calibration

/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

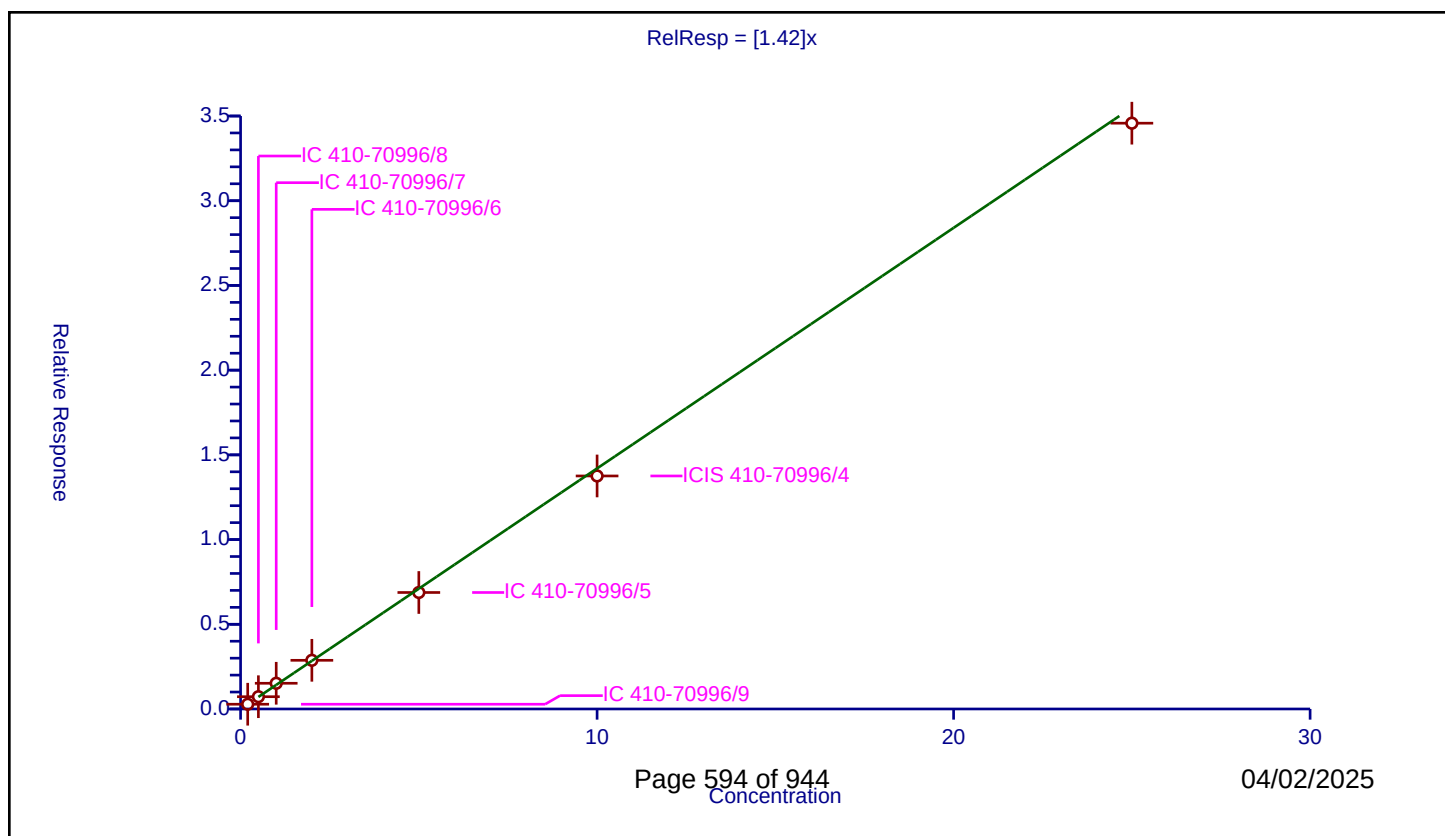
Curve Coefficients

Intercept: 0
Slope: 1.42

Error Coefficients

Standard Error: 1390000
Relative Standard Error: 3.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.280461	10.0	857732.0	1.402303	Y
2	IC 410-70996/8	0.5	0.724564	10.0	861870.0	1.449128	Y
3	IC 410-70996/7	1.0	1.517368	10.0	860391.0	1.517368	Y
4	IC 410-70996/6	2.0	2.87397	10.0	869181.0	1.436985	Y
5	IC 410-70996/5	5.0	6.876316	10.0	878834.0	1.375263	Y
6	ICIS 410-70996/4	10.0	13.753712	10.0	888382.0	1.375371	Y
7	IC 410-70996/3	25.0	34.577221	10.0	896780.0	1.383089	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

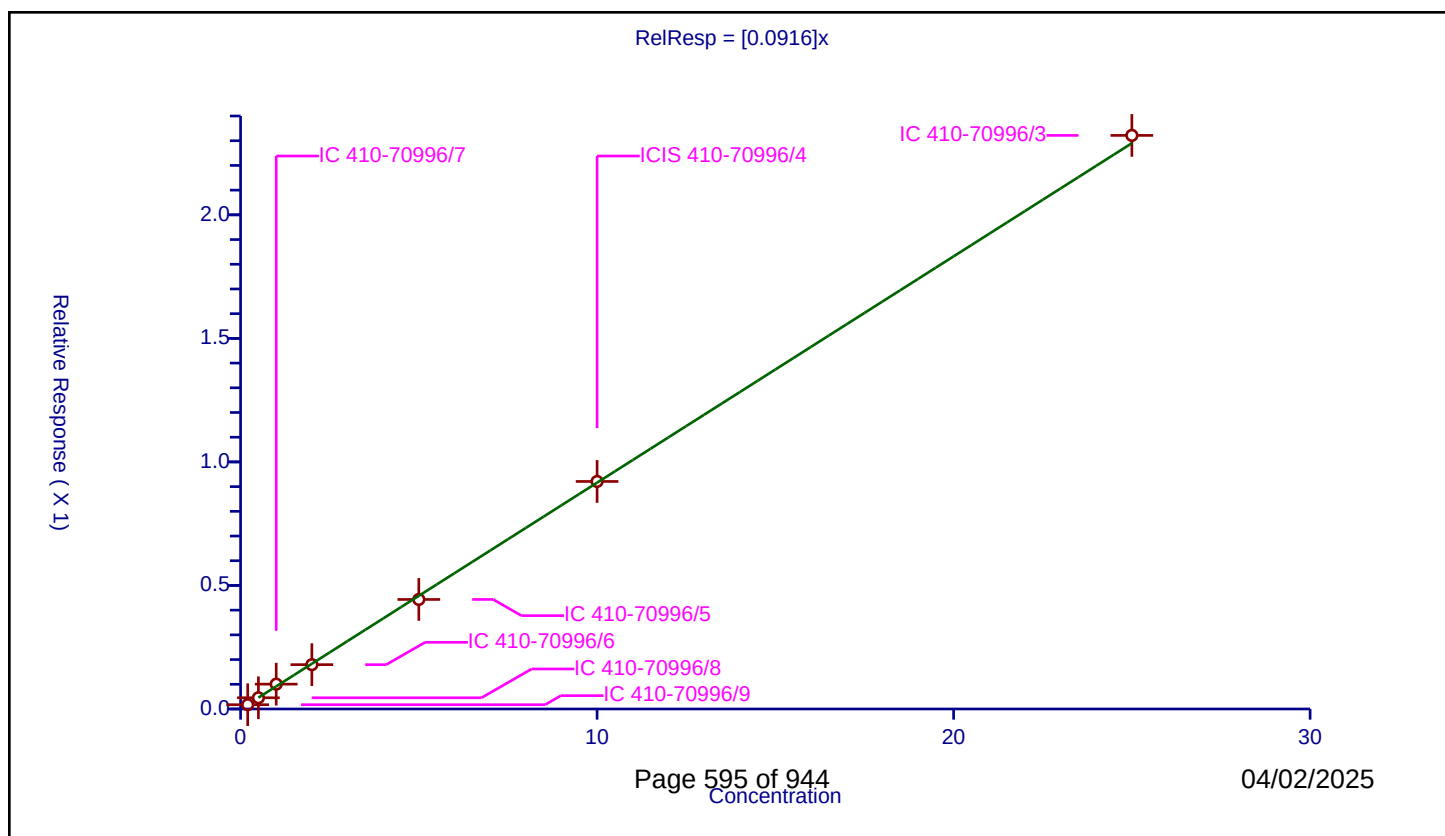
Curve Coefficients

Intercept: 0
Slope: 0.0916

Error Coefficients

Standard Error: 93000
Relative Standard Error: 4.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.017325	10.0	857732.0	0.086624	Y
2	IC 410-70996/8	0.5	0.045343	10.0	861870.0	0.090687	Y
3	IC 410-70996/7	1.0	0.100536	10.0	860391.0	0.100536	Y
4	IC 410-70996/6	2.0	0.179433	10.0	869181.0	0.089717	Y
5	IC 410-70996/5	5.0	0.443303	10.0	878834.0	0.088661	Y
6	ICIS 410-70996/4	10.0	0.920955	10.0	888382.0	0.092096	Y
7	IC 410-70996/3	25.0	2.32155	10.0	896780.0	0.092862	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

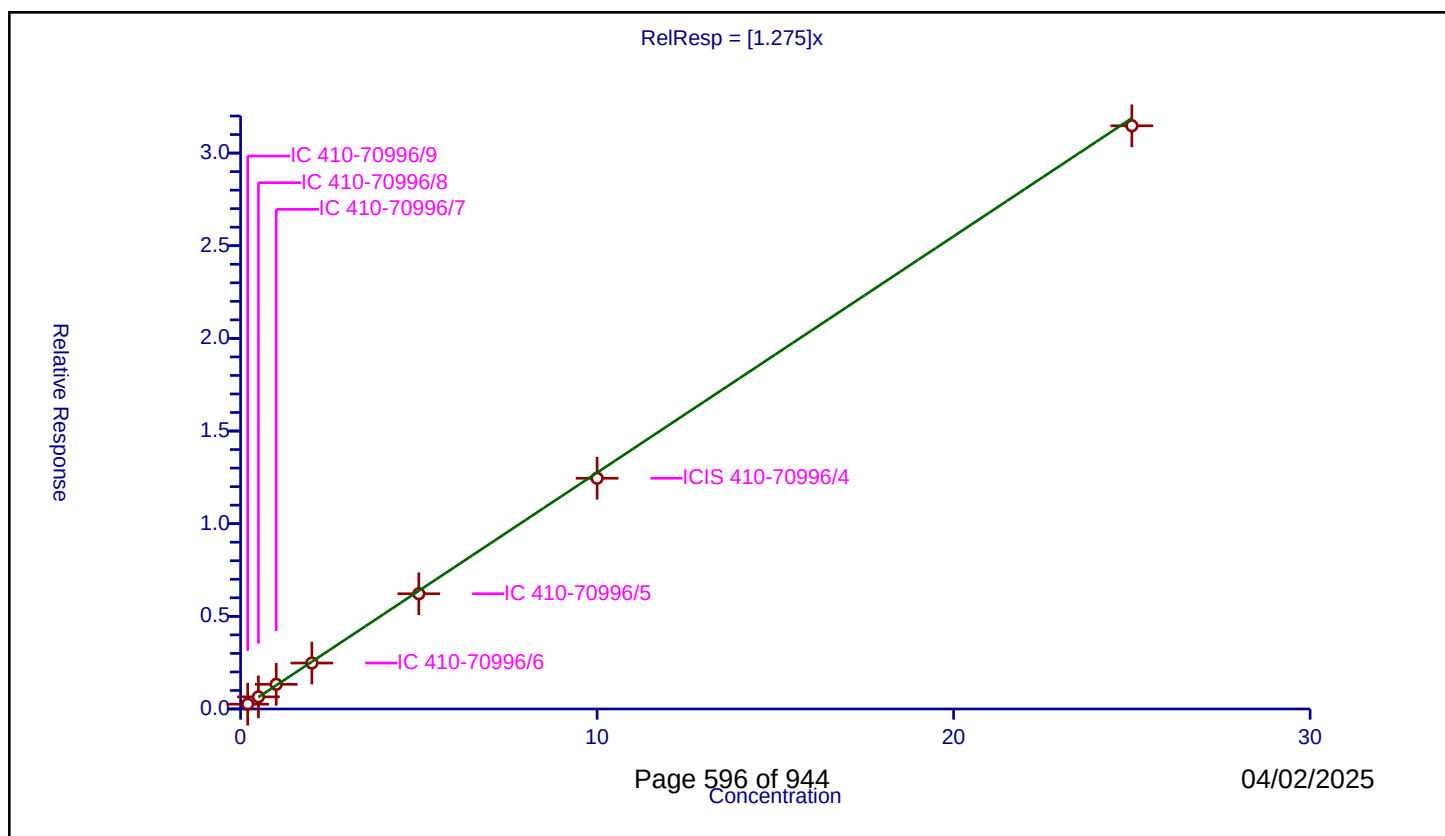
Curve Coefficients

Intercept: 0
 Slope: 1.275

Error Coefficients

Standard Error: 1260000
 Relative Standard Error: 2.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.260093	10.0	857732.0	1.300464	Y
2	IC 410-70996/8	0.5	0.653764	10.0	861870.0	1.307529	Y
3	IC 410-70996/7	1.0	1.331732	10.0	860391.0	1.331732	Y
4	IC 410-70996/6	2.0	2.480761	10.0	869181.0	1.24038	Y
5	IC 410-70996/5	5.0	6.218842	10.0	878834.0	1.243768	Y
6	ICIS 410-70996/4	10.0	12.451704	10.0	888382.0	1.24517	Y
7	IC 410-70996/3	25.0	31.471743	10.0	896780.0	1.25887	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

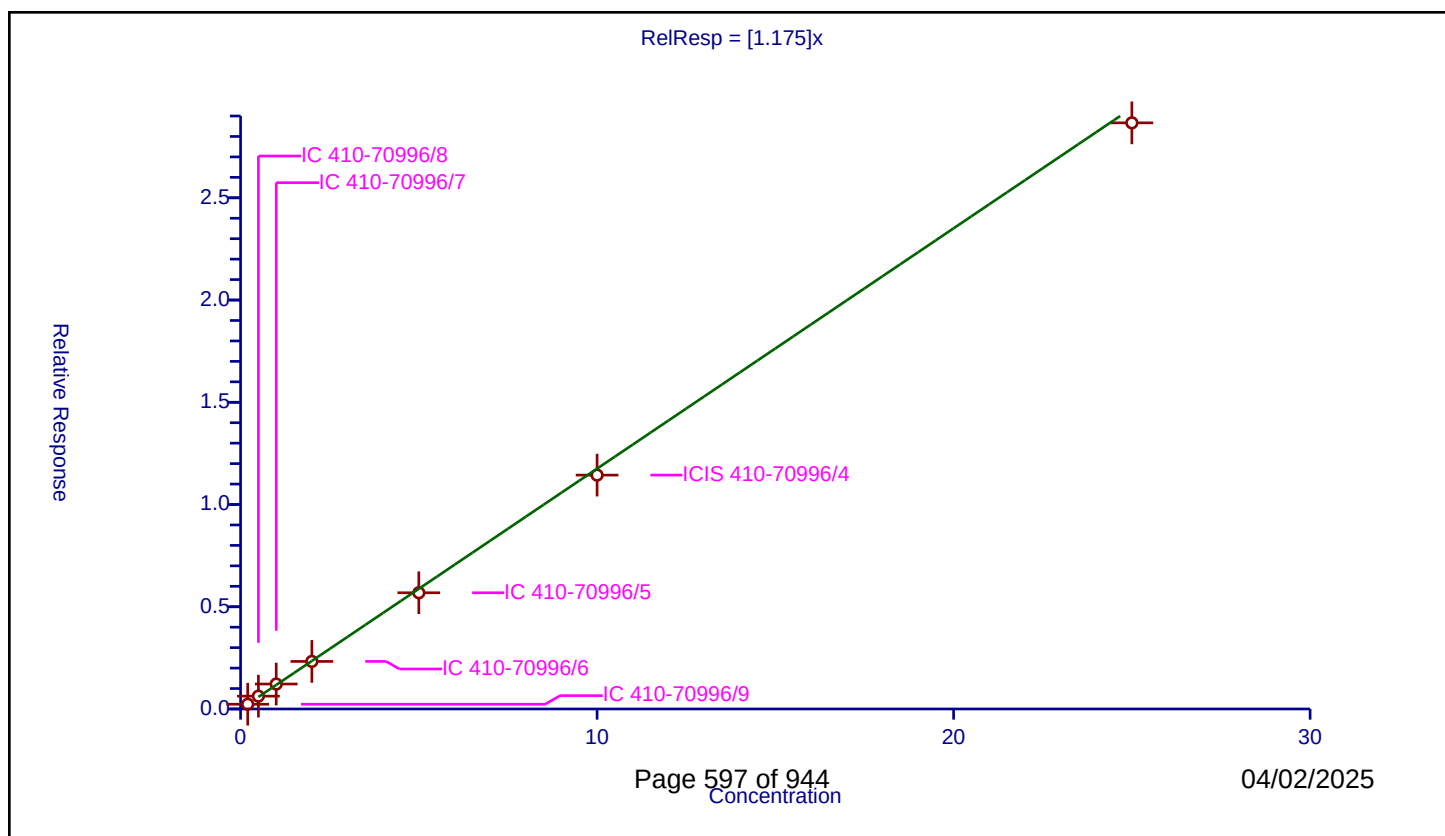
Curve Coefficients

Intercept: 0
 Slope: 1.175

Error Coefficients

Standard Error: 1150000
 Relative Standard Error: 3.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.232543	10.0	857732.0	1.162717	Y
2	IC 410-70996/8	0.5	0.62745	10.0	861870.0	1.254899	Y
3	IC 410-70996/7	1.0	1.219934	10.0	860391.0	1.219934	Y
4	IC 410-70996/6	2.0	2.325661	10.0	869181.0	1.16283	Y
5	IC 410-70996/5	5.0	5.684236	10.0	878834.0	1.136847	Y
6	ICIS 410-70996/4	10.0	11.438244	10.0	888382.0	1.143824	Y
7	IC 410-70996/3	25.0	28.666005	10.0	896780.0	1.14664	Y



Calibration

/ Hexachlorobutadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

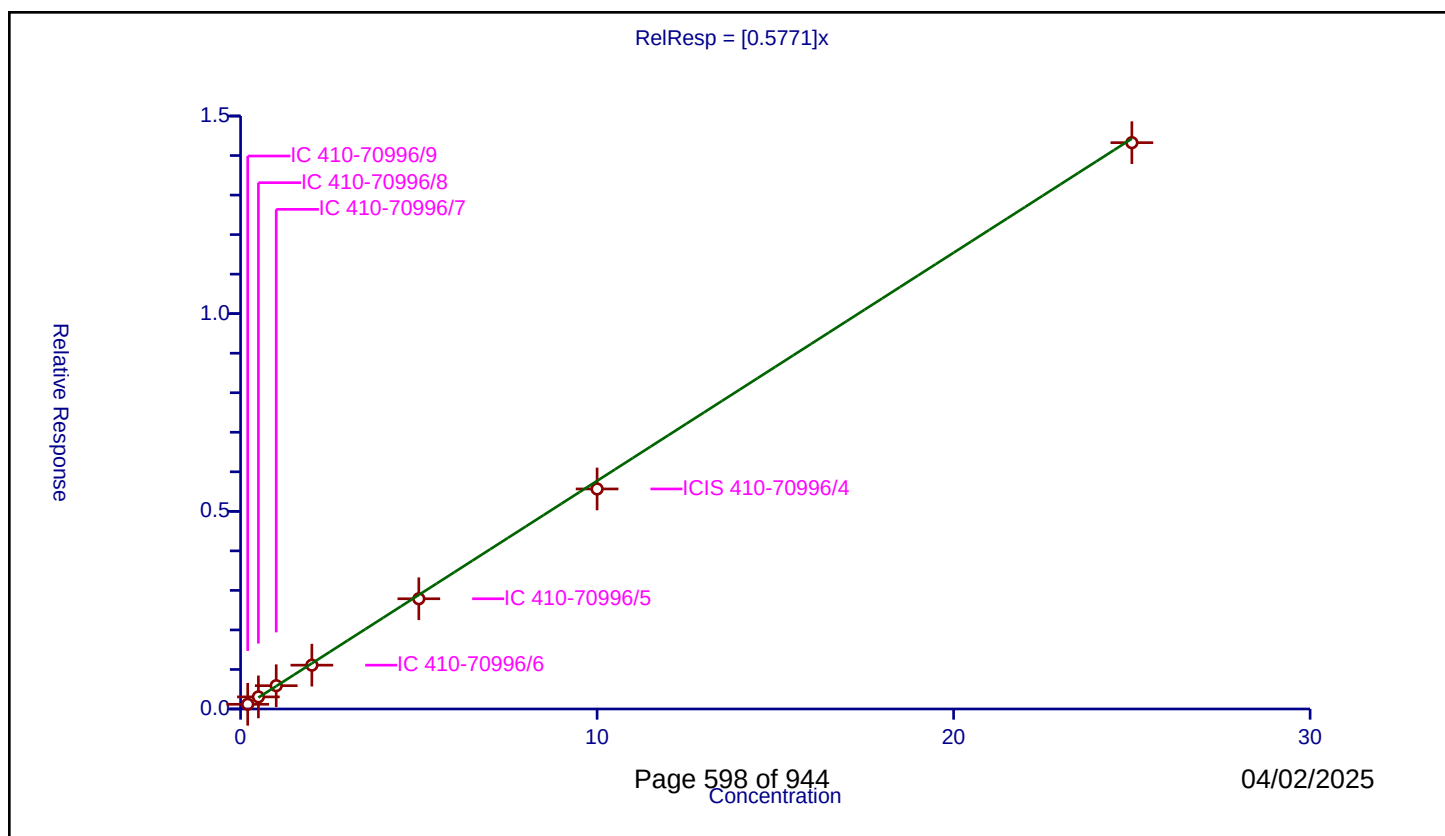
Curve Coefficients

Intercept: 0
 Slope: 0.5771

Error Coefficients

Standard Error: 573000
 Relative Standard Error: 3.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.11928	10.0	857732.0	0.596398	Y
2	IC 410-70996/8	0.5	0.30609	10.0	861870.0	0.61218	Y
3	IC 410-70996/7	1.0	0.589441	10.0	860391.0	0.589441	Y
4	IC 410-70996/6	2.0	1.108584	10.0	869181.0	0.554292	Y
5	IC 410-70996/5	5.0	2.788137	10.0	878834.0	0.557627	Y
6	ICIS 410-70996/4	10.0	5.566209	10.0	888382.0	0.556621	Y
7	IC 410-70996/3	25.0	14.325866	10.0	896780.0	0.573035	Y



Calibration

/ Naphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

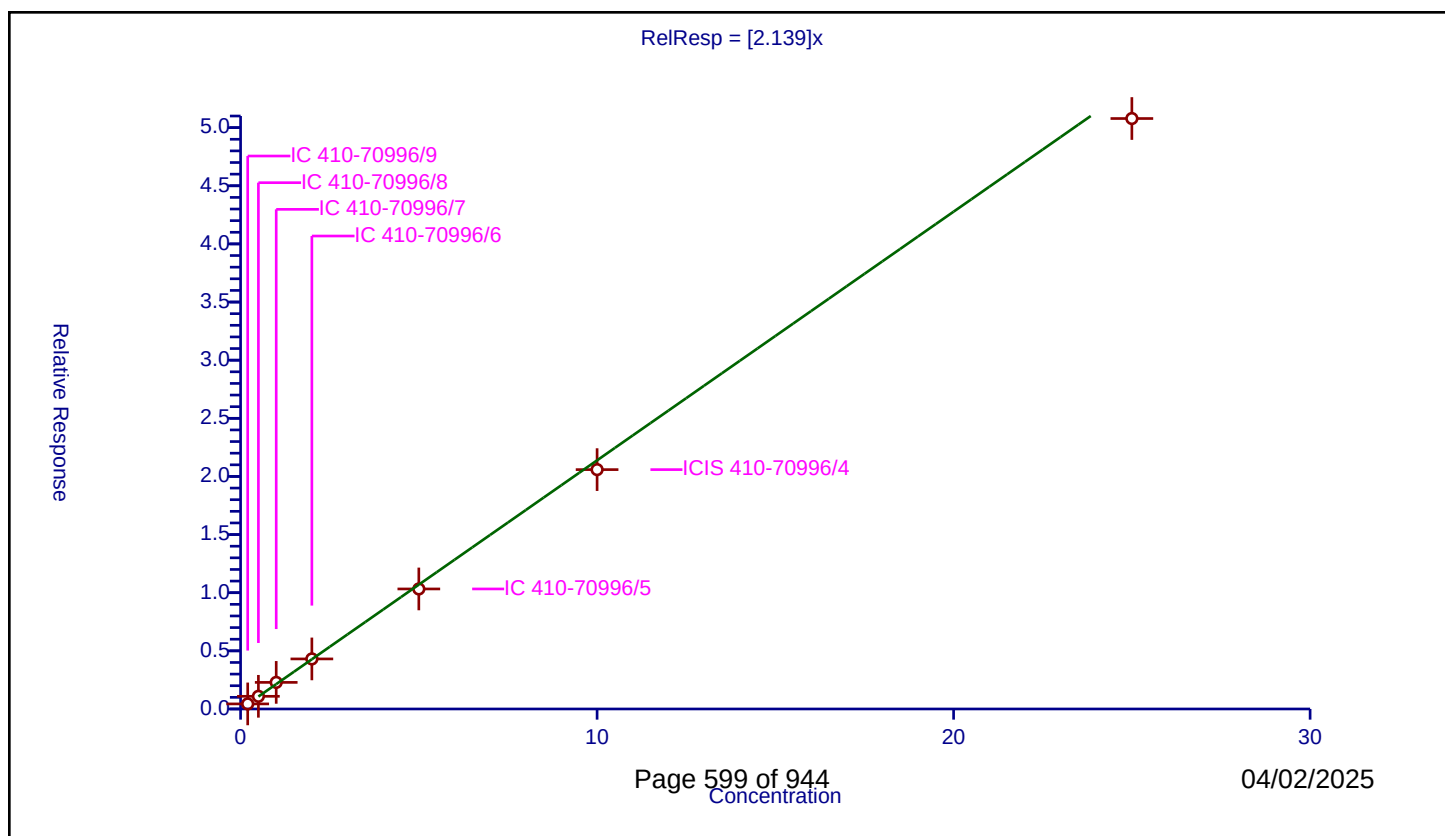
Curve Coefficients

Intercept: 0
Slope: 2.139

Error Coefficients

Standard Error: 2050000
Relative Standard Error: 4.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.438027	10.0	857732.0	2.190136	Y
2	IC 410-70996/8	0.5	1.09165	10.0	861870.0	2.183299	Y
3	IC 410-70996/7	1.0	2.28882	10.0	860391.0	2.28882	Y
4	IC 410-70996/6	2.0	4.306445	10.0	869181.0	2.153222	Y
5	IC 410-70996/5	5.0	10.324851	10.0	878834.0	2.06497	Y
6	ICIS 410-70996/4	10.0	20.587945	10.0	888382.0	2.058795	Y
7	IC 410-70996/3	25.0	50.784328	10.0	896780.0	2.031373	Y



Calibration

/ 1,2,3-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

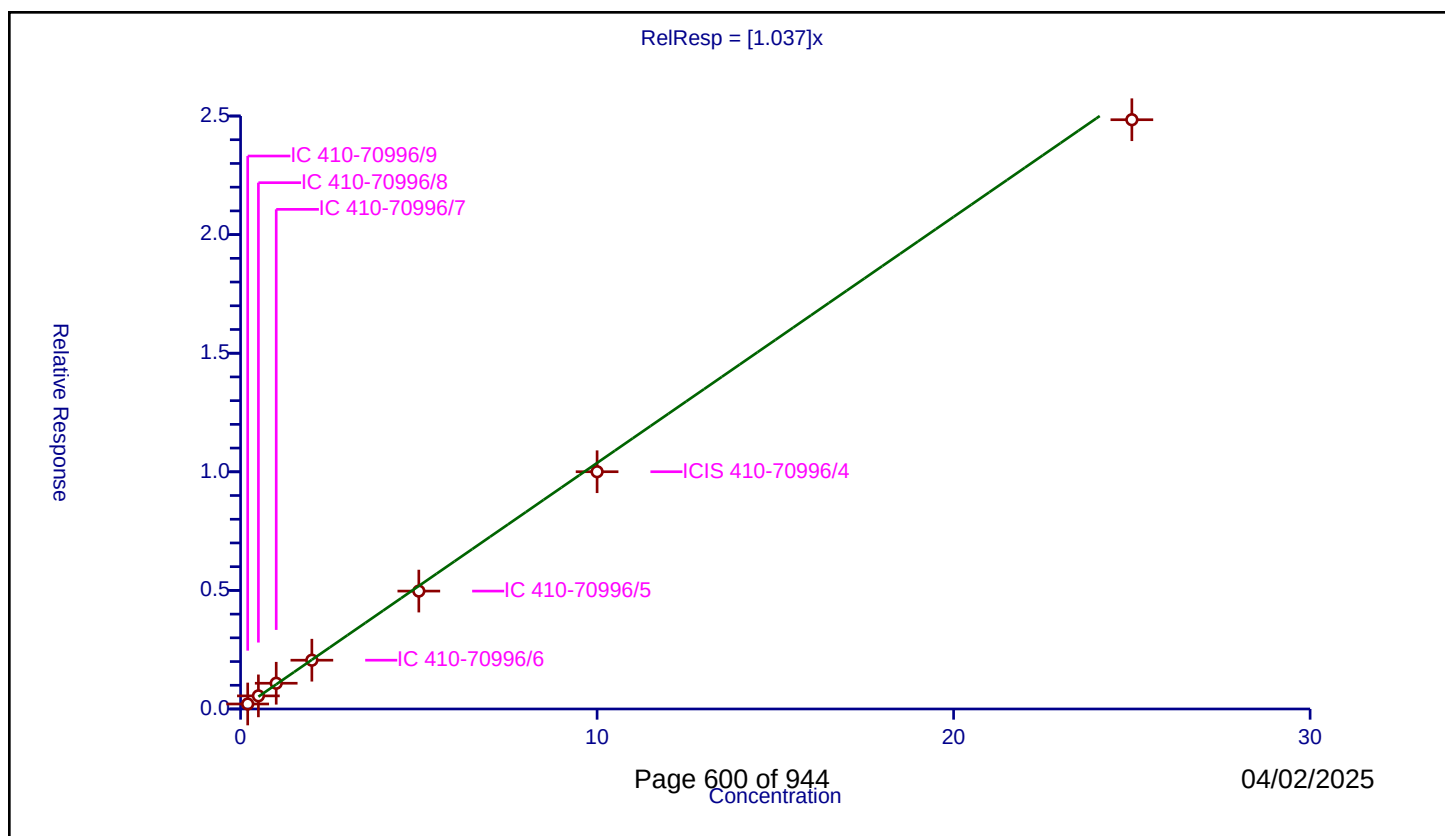
Curve Coefficients

Intercept: 0
 Slope: 1.037

Error Coefficients

Standard Error: 999000
 Relative Standard Error: 4.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.21108	10.0	857732.0	1.0554	Y
2	IC 410-70996/8	0.5	0.55216	10.0	861870.0	1.10432	Y
3	IC 410-70996/7	1.0	1.085065	10.0	860391.0	1.085065	Y
4	IC 410-70996/6	2.0	2.057339	10.0	869181.0	1.02867	Y
5	IC 410-70996/5	5.0	4.971542	10.0	878834.0	0.994308	Y
6	ICIS 410-70996/4	10.0	10.003107	10.0	888382.0	1.000311	Y
7	IC 410-70996/3	25.0	24.844009	10.0	896780.0	0.99376	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-581544/13	GD03X12.D
Level 2	IC 410-581544/14	GD03X13.D
Level 3	IC 410-581544/15	GD03X14.D
Level 4	IC 410-581544/16	GD03X15.D
Level 5	IC 410-581544/17	GD03X16.D
Level 6	ICIS 410-581544/18	GD03X17.D
Level 7	IC 410-581544/19	GD03X18.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 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Dichlorodifluoromethane	0.2529 0.3225	0.3107 0.3248	0.3414	0.3262	0.3609	Ave		0.319 9			0.1000	10.5		20.0			
Chloromethane	0.4619 0.3572	0.3742 0.3585	0.3754	0.3571	0.4021	Ave		0.383 8			0.1000	9.9		20.0			
1,3-Butadiene	0.3810 0.3412	0.3322 0.3430	0.3596	0.3336	0.3824	Ave		0.353 3				6.0		20.0			
Vinyl chloride	0.3536 0.3325	0.3467 0.3381	0.3505	0.3365	0.3753	Ave		0.347 6			0.1000	4.2		20.0			
Bromomethane	0.2645 0.2082	0.2219 0.2052	0.2322	0.2165	0.2340	Ave		0.226 1			0.1000	8.9		20.0			
Chloroethane	0.1934 0.1554	0.1812 0.1622	0.1880	0.1670	0.1817	Ave		0.175 6			0.1000	8.1		20.0			
Dichlorofluoromethane	0.5513 0.4539	0.4742 0.4709	0.5005	0.4644	0.5280	Ave		0.491 9			0.1000	7.4		20.0			
Trichlorofluoromethane	0.3602 0.3753	0.3719 0.3791	0.3982	0.3798	0.4306	Ave		0.385 0			0.1000	6.0		20.0			
Ethyl ether	0.1490 0.1357	0.1412 0.1376	0.1534	0.1313	0.1390	Ave		0.141 0				5.5		20.0			
Freon 123a	0.3243 0.2631	0.2865 0.2912	0.3023	0.2734	0.2913	Ave		0.290 3				6.8		20.0			
Acrolein	2.0629 2.2440	1.5575 2.5379	1.9922	1.6634	2.0930	Ave		2.021 5				16.5		20.0			
1,1-Dichloroethene	0.2390 0.2117	0.2203 0.2205	0.2475	0.1974	0.2424	Ave		0.225 5			0.1000	8.1		20.0			
Acetone	4.0158 2.4852	2.6324 2.4631	3.0625	2.4869	2.9365	Ave		2.868 9			0.1000	19.5		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.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

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	0.1978 0.2372	0.2130 0.2430	0.2751	0.2243	0.2713	Ave		0.237 4			0.1000	12.1		20.0			
Methyl iodide	0.4385 0.4213	0.4150 0.4399	0.4751	0.3907	0.4737	Ave		0.436 3				7.1		20.0			
Ethyl bromide	0.1977 0.1990	0.1898 0.1990	0.2146	0.1963	0.1945	Ave		0.198 7				3.9		20.0			
Carbon disulfide	0.7778 0.8065	0.7950 0.8335	0.9216	0.7461	0.9069	Ave		0.826 8			0.1000	7.9		20.0			
Methyl acetate	12.394 12.860	10.995 11.936	11.883	10.433	14.193	Ave		12.09 9			0.1000	10.2		20.0			
Allyl chloride	0.4137 0.3763	0.3782 0.3946	0.4180	0.3436	0.4188	Ave		0.391 9				7.1		20.0			
Methylene Chloride	0.2561 0.2372	0.2412 0.2473	0.2731	0.2217	0.2694	Ave		0.249 4			0.1000	7.3		20.0			
t-Butyl alcohol	0.5284 0.5585	0.6397 0.5598	0.6785	0.5356	0.6128	Ave		0.587 6				9.7		20.0			
Acrylonitrile	++++ 4.0119	++++ 4.0562	3.7097	3.3082	4.5604	Ave		3.929 3				11.8		20.0			
Methyl tert-butyl ether	0.4927 0.5052	0.4613 0.5341	0.5281	0.4463	0.5547	Ave		0.503 2			0.1000	7.8		20.0			
trans-1,2-Dichloroethene	0.2791 0.2545	0.2458 0.2677	0.2822	0.2357	0.2899	Ave		0.265 n			0.1000	7.6		20.0			
n-Hexane	0.2833 0.3613	0.2934 0.3663	0.3936	0.3222	0.4035	Ave		0.346 2				13.7		20.0			
1,1-Dichloroethane	0.4780 0.4654	0.4508 0.4881	0.5213	0.4326	0.5252	Ave		0.480 2			0.2000	7.2		20.0			
di-Isopropyl ether	0.7291 0.7551	0.6849 0.7996	0.8043	0.6704	0.8416	Ave		0.755 n				8.5		20.0			
2-Chloro-1,3-butadiene	0.3508 0.3745	0.3246 0.3936	0.3948	0.3258	0.4090	Ave		0.367 6				9.3		20.0			
Ethyl t-butyl ether	0.6311 0.6729	0.5905 0.7239	0.7116	0.5802	0.7444	Ave		0.664 9				9.9		20.0			
2-Butanone (MEK)	4.3804 5.0178	4.5702 5.0440	5.4142	4.2547	5.7319	Ave		4.916 2			0.1000	11.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

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	0.2884 0.2840	0.2718 0.2999	0.3120	0.2599	0.3136	Ave		0.289 9			0.1000	6.9		20.0			
2,2-Dichloropropane	0.4239 0.3913	0.3907 0.4100	0.4403	0.3650	0.4403	Ave		0.408 8				6.9		20.0			
Propionitrile	0.5831 1.4257	0.9122 1.4686	1.1348	1.0544	1.5623	Qua	-6.39 0	1.490 8	-0.000021						0.9990		0.9900
Methacrylonitrile	3.9593 5.7761	4.0765 5.8543	5.8503	4.9949	6.6030	Ave		5.302 1				18.7		20.0			
Bromochloromethane	0.0932 0.1103	0.0967 0.1150	0.1219	0.1013	0.1230	Ave		0.108 8				11.0		20.0			
Tetrahydrofuran	++++ 1.4819	0.9732 1.5090	1.5892	1.1910	1.6961	Ave		1.406 7				19.3		20.0			
Chloroform	0.4848 0.4552	0.4329 0.4747	0.5107	0.4198	0.5194	Ave		0.471 1			0.2000	8.0		20.0			
1,1,1-Trichloroethane	0.4395 0.3985	0.3882 0.4189	0.4535	0.3705	0.4504	Ave		0.417 1			0.1000	7.8		20.0			
Cyclohexane	0.3424 0.4292	0.3791 0.4417	0.4623	0.3811	0.4754	Ave		0.415 9			0.1000	11.8		20.0			
Carbon tetrachloride	0.3599 0.3477	0.3239 0.3647	0.3905	0.3182	0.3922	Ave		0.356 7			0.1000	8.2		20.0			
1,1-Dichloropropene	0.3804 0.3673	0.3331 0.3839	0.4053	0.3254	0.4091	Ave		0.372 1				8.8		20.0			
Isobutyl alcohol	0.0016 0.0019	0.0018 0.0021	0.0018	0.0015	0.0020	Ave		0.001 8				10.5		20.0			
Benzene	1.1474 1.0618	1.0463 1.1138	1.2340	0.9730	1.1943	Ave		1.110 1			0.5000	8.1		20.0			
1,2-Dichloroethane	0.2581 0.2452	0.2457 0.2571	0.2776	0.2233	0.2739	Ave		0.254 4			0.1000	7.3		20.0			
t-Amyl methyl ether	0.5209 0.5616	0.4954 0.6034	0.5739	0.4889	0.6178	Ave		0.551 7				9.3		20.0			
n-Heptane	0.3209 0.3476	0.2802 0.3394	0.3938	0.3185	0.3807	Ave		0.340 2				11.4		20.0			
n-Butanol	++++ 0.2003	0.0789 0.2289	0.1152	0.1171	0.2152	Qua	-7.42 2	0.202 2	0.0000137						0.9990		0.9900

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.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

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	0.2818 0.2793	0.2652 0.2939	0.3125	0.2524	0.3116	Ave		0.285 2			0.2000	7.9		20.0			
Methylcyclohexane	0.3557 0.4578	0.3722 0.4710	0.4881	0.4024	0.5067	Ave		0.436 3			0.1000	13.6		20.0			
1,2-Dichloropropane	0.2590 0.2636	0.2514 0.2785	0.2923	0.2394	0.2968	Ave		0.268 7			0.1000	7.9		20.0			
Dibromomethane	0.1092 0.1084	0.1032 0.1147	0.1199	0.0950	0.1214	Ave		0.110 2				8.5		20.0			
1,4-Dioxane	++++ 0.0681	++++ 0.0636	0.0433	0.0665	0.0781	Ave		0.063 9			0.0050	20.0		20.0			
Methyl methacrylate	++++ 10.810	8.2685 11.339	10.388	8.1238	11.502	Ave		10.07 2				15.0		20.0			
Bromodichloromethane	0.3016 0.3080	0.2810 0.3292	0.3214	0.2744	0.3398	Ave		0.307 9			0.2000	7.9		20.0			
2-Nitropropane	3.4673 3.0284	3.2586 2.9911	3.0930	2.4535	3.2122	Ave		3.072 0				10.3		20.0			
1-Bromo-2-chloroethane	0.2217 0.2418	0.2032 0.2474	0.2412	0.2276	0.2341	Ave		0.231 0				6.5		20.0			
cis-1,3-Dichloropropene	0.3504 0.3865	0.3217 0.4209	0.4003	0.3357	0.4280	Ave		0.377 6			0.2000	11.1		20.0			
4-Methyl-2-pentanone (MIBK)	10.281 13.626	10.734 14.241	13.407	11.412	15.311	Ave		12.71 6			0.1000	15.0		20.0			
Toluene	0.9857 0.9365	0.8897 0.9817	1.0553	0.8555	1.0411	Ave		0.963 6			0.4000	7.7		20.0			
trans-1,3-Dichloropropene	0.3700 0.4167	0.3585 0.4562	0.4093	0.3582	0.4539	Ave		0.403 2			0.1000	10.5		20.0			
Ethyl methacrylate	++++ 0.2690	0.1799 0.3004	0.2294	0.2006	0.2808	Ave		0.243 3				19.6		20.0			
1,1,2-Trichloroethane	0.2357 0.2184	0.2089 0.2262	0.2367	0.1949	0.2371	Ave		0.222 6			0.1000	7.3		20.0			
Tetrachloroethene	0.4536 0.4208	0.4164 0.4341	0.4661	0.3840	0.4688	Ave		0.434 8			0.2000	7.0		20.0			
1,3-Dichloropropane	0.3605 0.3855	0.3611 0.4054	0.4087	0.3461	0.4257	Ave		0.384 7				7.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

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	7.0378 9.5963	7.8710 9.8360	8.8394	7.7352	10.905	Ave		8.831 6			0.1000	15.5		20.0			
Dibromochloromethane	0.2495 0.2786	0.2354 0.3057	0.2871	0.2410	0.3040	Ave		0.271 6				10.9		20.0			
1,2-Dibromoethane (EDB)	0.1725 0.2049	0.1749 0.2169	0.2114	0.1764	0.2288	Ave		0.198 0			0.1000	11.6		20.0			
1-Chlorohexane	0.5700 0.5016	0.4869 0.5259	0.5457	0.4449	0.5571	Ave		0.518 9				8.5		20.0			
Chlorobenzene	1.1053 1.0466	1.0178 1.0959	1.1792	0.9578	1.1710	Ave		1.081 9			0.5000	7.4		20.0			
1,1,1,2-Tetrachloroethane	0.3473 0.3489	0.3174 0.3694	0.3784	0.3102	0.3862	Ave		0.351 1				8.3		20.0			
Ethylbenzene	1.8296 1.8656	1.7274 1.9604	2.0073	1.6560	2.0736	Ave		1.874 3			0.1000	8.0		20.0			
m&p-Xylene	0.6865 0.7234	0.6653 0.7589	0.7760	0.6419	0.8092	Ave		0.723 0			0.1000	8.5		20.0			
o-Xylene	0.6449 0.6965	0.6084 0.7385	0.7477	0.6187	0.7772	Ave		0.690 3			0.3000	9.7		20.0			
Styrene	0.8821 1.1278	0.8773 1.2066	1.0940	0.9272	1.2363	Ave		1.050 2			0.3000	14.6		20.0			
Bromoform	0.1249 0.1476	0.1194 0.1637	0.1461	0.1222	0.1586	Ave		0.140 4			0.1000	12.9		20.0			
Isopropylbenzene	1.5050 1.6584	1.4444 1.7401	1.7372	1.4294	1.8344	Ave		1.621 3			0.1000	9.9		20.0			
1,1,2,2-Tetrachloroethane	0.4290 0.4671	0.4244 0.4959	0.4926	0.4206	0.5170	Ave		0.463 8			0.3000	8.5		20.0			
Bromobenzene	0.7657 0.7666	0.6977 0.8205	0.8245	0.7030	0.8654	Ave		0.777 6				8.1		20.0			
trans-1,4-Dichloro-2-butene	4.7746 5.5310	4.8238 5.6531	5.9348	4.7824	6.4092	Ave		5.415 6				11.9		20.0			
1,2,3-Trichloropropane	0.1104 0.1232	0.1117 0.1311	0.1345	0.1152	0.1393	Ave		0.123 6				9.4		20.0			
N-Propylbenzene	4.1047 4.1592	3.7622 4.3219	4.5237	3.7433	4.6306	Ave		4.177 9				8.2		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.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

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	0.8622 0.8063	0.7513 0.8580	0.8797	0.7451	0.9099	Ave		0.830 3				7.7		20.0			
1,3,5-Trimethylbenzene	2.7003 2.9999	2.5647 3.1801	3.2056	2.6502	3.3201	Ave		2.945 8				10.4		20.0			
4-Chlorotoluene	0.8196 0.8469	0.7872 0.8855	0.9346	0.7820	0.9553	Ave		0.858 7				8.0		20.0			
tert-Butylbenzene	0.6043 0.6457	0.5765 0.6760	0.6814	0.5809	0.7091	Ave		0.639 1				8.2		20.0			
Pentachloroethane	0.3871 0.4698	0.3713 0.4906	0.4606	0.4301	0.4503	Ave		0.437 1				10.0		20.0			
1,2,4-Trimethylbenzene	2.6649 3.0955	2.7024 3.2721	3.2324	2.7330	3.4124	Ave		3.016 1				10.3		20.0			
sec-Butylbenzene	3.6739 3.8840	3.4355 4.0077	4.0902	3.4095	4.2282	Ave		3.818 4				8.4		20.0			
1,3-Dichlorobenzene	1.6043 1.6200	1.5526 1.7307	1.7836	1.4729	1.8203	Ave		1.654 9			0.6000	7.7		20.0			
p-Isopropyltoluene	2.9820 3.3563	2.8517 3.5107	3.4671	2.9249	3.7204	Ave		3.259 0				10.4		20.0			
1,4-Dichlorobenzene	1.7726 1.6010	1.5654 1.7062	1.8522	1.5302	1.8104	Ave		1.691 1			0.5000	7.5		20.0			
1,2,3-Trimethylbenzene	1.2639 1.2724	1.1684 1.3632	1.3930	1.1507	1.4164	Ave		1.289 7				8.2		20.0			
Benzyl chloride	0.1567 0.2007	0.1533 0.2193	0.2028	0.1736	0.2088	Ave		0.187 9				14.0		20.0			
n-Butylbenzene	1.5756 1.6962	1.5017 1.7431	1.7856	1.5183	1.8848	Ave		1.672 2				8.7		20.0			
1,2-Dichlorobenzene	1.4353 1.3868	1.3444 1.4623	1.5751	1.2752	1.5744	Ave		1.436 2			0.4000	7.8		20.0			
1,2-Dibromo-3-Chloropropane	1.9293 2.8604	2.4362 3.0021	2.8849	2.4965	3.1806	Ave		2.684 3			0.0500	15.8		20.0			
1,3,5-Trichlorobenzene	1.2831 1.2895	1.1778 1.3609	1.4095	1.1432	1.4449	Ave		1.301 3				8.7		20.0			
1,2,4-Trichlorobenzene	1.0342 1.0327	0.9586 1.1118	1.0650	0.8926	1.1673	Ave		1.037 5			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.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

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	0.6002 0.5570	0.5394 0.5643	0.5948	0.4979	0.6109	Ave		0.566 3				7.0		20.0			
Naphthalene	1.1613 1.4741	1.1669 1.6437	1.3955	1.2248	1.5948	Ave		1.380 2				14.6		20.0			
1,2,3-Trichlorobenzene	0.7966 0.8150	0.7013 0.8732	0.8423	0.7144	0.9149	Ave		0.808 2				9.7		20.0			
Dibromofluoromethane (Surr)	0.2347 0.2391	0.2334 0.2356	0.2373	0.2358	0.2357	Ave		0.235 9				0.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0444 0.0462	0.0452 0.0442	0.0452	0.0452	0.0446	Ave		0.045 0				1.5		20.0			
Toluene-d8 (Surr)	1.3891 1.3902	1.3913 1.3790	1.3880	1.3893	1.3892	Ave		1.388 0				0.3		20.0			
4-Bromofluorobenzene (Surr)	0.4714 0.4844	0.4792 0.4812	0.4804	0.4780	0.4806	Ave		0.479 3				0.8		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-581544/13	GD03X12.D
Level 2	IC 410-581544/14	GD03X13.D
Level 3	IC 410-581544/15	GD03X14.D
Level 4	IC 410-581544/16	GD03X15.D
Level 5	IC 410-581544/17	GD03X16.D
Level 6	ICIS 410-581544/18	GD03X17.D
Level 7	IC 410-581544/19	GD03X18.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	10274 654728	32431 1656902	65808	137378	352043	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	18766 725018	39055 1828944	72370	150363	392216	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	15480 692654	34675 1749685	69314	140482	372980	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	14365 674953	36180 1724907	67557	141703	366033	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	10747 422617	23157 1046630	44768	91161	228209	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	7859 315535	18917 827463	36238	70306	177241	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	22399 921288	49488 2402364	96483	195557	514997	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	14635 761739	38812 1934004	76757	159954	419995	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	6055 275384	14741 701826	29561	55287	135551	0.200 10.00	0.500 25.0	1.000	2.00	5.00
Freon 123a	FB	Ave	13177 534020	29901 1485822	58279	115136	284156	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd1 0	Ave	30260 1763294	59455 5285090	137133	267267	744657	9.76 488	24.4 1220	48.8	97.6	244
1,1-Dichloroethene	FB	Ave	9708 429658	22996 1124723	47699	83145	236422	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd1 0	Ave	12073 400224	20595 1051222	43205	81896	214120	2.00 100	5.00 250	10.0	20.0	50.0
Freon 113	FB	Ave	8037 481404	22226 1239621	53034	94445	264589	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.: 410-214590-1

Analy Batch No.: 581544

SDG No.:

Instrument ID: 16334

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

Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05

Calibration End Date: 12/03/2024 18:18

Calibration ID: 67963

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	17814 855203	43316 2244364	91582	164518	462010	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl bromide	FB	Ave	8046 404514	19840 1016730	41423	82800	190046	0.200 10.0	0.501 25.0	1.00	2.00	5.01
Carbon disulfide	FB	Ave	31600 1637209	82977 4252460	177642	314180	884515	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd1 0	Ave	3726 207094	8602 509423	16764	34355	103492	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	16809 763949	39472 2013079	80575	144711	408456	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	10403 481443	25172 1261862	52643	93343	262746	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd1 0	Ave	3177 179876	10010 477820	19143	35274	89372	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd1 0	Ave	++++ 161520	++++ 432781	13084	27235	83133	++++ 25.0	++++ 62.5	2.50	5.00	12.5
Methyl tert-butyl ether	FB	Ave	20018 1025431	48150 2724781	101798	187942	541024	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	11338 516700	25653 1365879	54392	99262	282729	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	11511 733509	30625 1868531	75867	135673	393516	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	19419 944776	47051 2490248	100480	182173	512206	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	29623 1532789	71483 4079586	155041	282318	820815	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	14251 760188	33879 2007829	76102	137210	398905	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	25638 1365983	61634 3693215	137170	244342	726011	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAd1 0	Ave	13169 808081	35756 2152705	76383	140109	417953	2.00 100	5.00 250	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	11716 576496	28366 1529983	60132	109432	305906	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	17224 794372	40782 2091785	84869	153705	429482	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.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

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	TBAd1 0	Qua	3506	14274	32020	69444	227843	4.00	10.0	20.0	40.0	100
			459203	1253591				200	500			
Methacrylonitrile	TBAd1 0	Ave	11903	31893	82535	164485	481475	2.00	5.00	10.0	20.0	50.0
			930194	2498548				100	250			
Bromochloromethane	FB	Ave	3786	10093	23499	42653	119918	0.200	0.500	1.00	2.00	5.00
			223982	586879				10.0	25.0			
Tetrahydrofuran	TBAd1 0	Ave	++++	3807	11210	19610	61837	++++	2.50	5.00	10.0	25.0
			119325	322011				50.0	125			
Chloroform	FB	Ave	19698	45184	98445	176770	506612	0.200	0.500	1.00	2.00	5.00
			923970	2421910				10.0	25.0			
1,1,1-Trichloroethane	FB	Ave	17857	40514	87414	156008	439309	0.200	0.500	1.00	2.00	5.00
			808976	2137093				10.0	25.0			
Cyclohexane	FB	Ave	13910	39567	89108	160495	463715	0.200	0.500	1.00	2.00	5.00
			871204	2253420				10.0	25.0			
Carbon tetrachloride	FB	Ave	14622	33806	75268	133989	382481	0.200	0.500	1.00	2.00	5.00
			705791	1860654				10.0	25.0			
1,1-Dichloropropene	FB	Ave	15453	34770	78123	137040	399041	0.200	0.500	1.00	2.00	5.00
			745514	1958625				10.0	25.0			
Isobutyl alcohol	FB	Ave	3347	9213	17367	32401	99540	10.0	25.0	50.0	100	250
			189328	523290				500	1250			
Benzene	FB	Ave	46614	109204	237860	409760	1164816	0.200	0.500	1.00	2.00	5.00
			2155320	5682289				10.0	25.0			
1,2-Dichloroethane	FB	Ave	10485	25647	53515	94042	267172	0.200	0.500	1.00	2.00	5.00
			497648	1311844				10.0	25.0			
t-Amyl methyl ether	FB	Ave	21163	51702	110626	205886	602513	0.200	0.500	1.00	2.00	5.00
			1140045	3078503				10.0	25.0			
n-Heptane	FB	Ave	13038	29248	75912	134127	371302	0.200	0.500	1.00	2.00	5.00
			705660	1731722				10.0	25.0			
n-Butanol	TBAd1 0	Qua	++++	5401	14226	33736	137314	++++	43.8	87.5	175	438
			282300	854963				875	2188			
Trichloroethene	FB	Ave	11450	27681	60246	106268	303896	0.200	0.500	1.00	2.00	5.00
			566926	1499591				10.0	25.0			
Methylcyclohexane	FB	Ave	14451	38844	94088	169456	494196	0.200	0.500	1.00	2.00	5.00
			929220	2402775				10.0	25.0			
1,2-Dichloropropane	FB	Ave	10523	26241	56348	100818	289521	0.200	0.500	1.00	2.00	5.00
			535168	1420975				10.0	25.0			
Dibromomethane	FB	Ave	4436	10767	23103	39985	118370	0.200	0.500	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.: 410-214590-1

Analy Batch No.: 581544

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

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	TBA01	Ave	220005 ++++	585345 ++++	3051	10948	28481	10.0 ++++	25.0 ++++	50.0	100	250
Methyl methacrylate	TBA01	Ave	54833 ++++	135780 6469	14655	26752	83871	500 ++++	1250 0.500	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	174082 12252 625244	483923 29324 1679274	61960	115539	331371	10.0 0.200 10.0	25.0 0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBA01	Ave	5212 243849	12747 638287	21818	40397	117113	1.00 50.0	2.50 125	5.00	10.0	25.0
1-Bromo-2-chloroethane	FB	Ave	9008 490806	21205 1262277	46498	95842	228348	0.200 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,3-Dichloropropene	FB	Ave	14235 784476	33579 2147298	77165	141369	417413	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone (MIBK)	TBA01	Ave	30907 2194385	83982 6077883	189139	375790	1116416	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd5	Ave	28904 1387859	66999 3673140	147967	263681	746443	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd5	Ave	10848 617479	26993 1707057	57396	110405	325432	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd5	Ave	398554 ++++	1123805 13550	32170	61823	201339	10.0 ++++	25.0 0.500	1.00	2.00	5.00
1,1,2-Trichloroethane	CBZd5	Ave	6910 323678	15734 846260	33186	60075	170031	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd5	Ave	13301 623584	31355 1624189	65358	118374	336165	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd5	Ave	10571 571245	27194 1516964	57306	106667	305206	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBA01	Ave	21158 1545408	61580 4197920	124705	254724	795187	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd5	Ave	7317 412795	17725 1143819	40257	74298	217986	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane (EDB)	CBZd5	Ave	5058 303700	13173 811627	29644	54379	164058	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd5	Ave	16714 743300	36668 1967644	76521	137137	399476	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd5	Ave	32409	76639	165351	295221	839645	0.200	0.500	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.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

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
			1550930	4100433				10.0	25.0			
1,1,1,2-Tetrachloroethane	CBZd5	Ave	10185 517028	23897 1382235	53055	95607	276920	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd5	Ave	53649 2764550	130075 7335028	281463	510427	1486798	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd5	Ave	40262 2143990	100193 5679046	217619	395724	1160356	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd5	Ave	18910 1032187	45815 2763250	104838	190698	557256	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Styrene	CBZd5	Ave	25866 1671286	66061 4514714	153403	285807	886451	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd5	Ave	3663 218778	8988 612317	20481	37677	113725	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd5	Ave	44131 2457615	108769 6510736	243585	440581	1315275	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd4	Ave	6755 370026	17384 972366	37217	68960	197424	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd4	Ave	12057 607331	28577 1608860	62293	115257	330476	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBA d1 0	Ave	14354 890726	37740 2412692	83727	157487	467344	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd4	Ave	1739 97608	4576 257054	10160	18881	53211	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd4	Ave	64636 3294955	154097 8474479	341766	613699	1768304	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd4	Ave	13577 638769	30771 1682443	66460	122148	347470	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd4	Ave	42521 2376550	105046 6235588	242188	434489	1267871	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd4	Ave	12906 670929	32244 1736325	70610	128200	364812	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd4	Ave	9515 511570	23614 1325469	51481	95235	270802	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Pentachloroethane	DCBd4	Ave	6095 372186	15209 962016	34802	70509	171947	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd4	Ave	41964 2452311	110687 6416018	244208	448060	1303117	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd4	Ave	57852 3076991	140716 7858381	309017	558971	1614632	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.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

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	25262 1283400	63594 3393565	134749	241470	695117	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd4	Ave	46957 2658919	116802 6883892	261939	479528	1420728	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd4	Ave	27913 1268318	64119 3345472	139934	250871	691343	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd4	Ave	19903 1008016	47855 2673036	105239	188654	540891	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd4	Ave	2467 158969	6281 429914	15322	28456	79734	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd4	Ave	24810 1343790	61510 3418002	134904	248926	719739	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd4	Ave	22602 1098625	55066 2867313	119001	209056	601232	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	TBA d1 0	Ave	580 46064	1906 128125	4070	8221	23192	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd4	Ave	20205 1021576	48242 2668518	106485	187427	551780	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trichlorobenzene	DCBd4	Ave	16286 818098	39264 2180074	80461	146334	445779	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd4	Ave	9452 441283	22092 1106417	44935	81623	233284	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd4	Ave	18287 1167840	47796 3223014	105429	200805	609000	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd4	Ave	12544 645626	28726 1712102	63634	117115	349381	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	476726 485373	487081 480706	457423	496451	459804	10.00 10.00	10.00 10.00	10.00	10.00	10.00
1,2-Dichloroethane-d4 (Surr)	FB	Ave	90275 93861	94299 90205	87076	95195	87048	10.00 10.00	10.00 10.00	10.00	10.00	10.00
Toluene-d8 (Surr)	CBZd5	Ave	2036539 2060036	2095290 2063750	1946099	2141117	1991994	10.00 10.00	10.00 10.00	10.00	10.00	10.00
4-Bromofluorobenzene (Surr)	CBZd5	Ave	691148 717786	721740 720169	673609	736681	689198	10.00 10.00	10.00 10.00	10.00	10.00	10.00

Curve Type Legend:

Ave = Average ISTD
Qua = Quadratic ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-581544/13	GD03X12.D
Level 2	IC 410-581544/14	GD03X13.D
Level 3	IC 410-581544/15	GD03X14.D
Level 4	IC 410-581544/16	GD03X15.D
Level 5	IC 410-581544/17	GD03X16.D
Level 6	ICIS 410-581544/18	GD03X17.D
Level 7	IC 410-581544/19	GD03X18.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	-21.0 1.5	-2.9	6.7	2.0	12.8	0.8	50 30	30	30	30	30	30
Chloromethane	20.4 -6.6	-2.5	-2.2	-7.0	4.8	-6.9	50 30	30	30	30	30	30
1,3-Butadiene	7.8 -2.9	-6.0	1.8	-5.6	8.2	-3.4	50 30	30	30	30	30	30
Vinyl chloride	1.7 -2.7	-0.3	0.8	-3.2	8.0	-4.3	50 30	30	30	30	30	30
Bromomethane	17.0 -9.3	-1.9	2.7	-4.2	3.5	-7.9	50 30	30	30	30	30	30
Chloroethane	10.2 -7.6	3.2	7.1	-4.9	3.5	-11.5	50 30	30	30	30	30	30
Dichlorofluoromethane	12.1 -4.3	-3.6	1.8	-5.6	7.3	-7.7	50 30	30	30	30	30	30
Trichlorofluoromethane	-6.4 -1.5	-3.4	3.4	-1.3	11.8	-2.5	50 30	30	30	30	30	30
Ethyl ether	5.7 -2.4	0.2	8.7	-6.9	-1.4	-3.8	50 30	30	30	30	30	30
Freon 123a	11.7 0.3	-1.3	4.1	-5.8	0.4	-9.4	50 30	30	30	30	30	30
Acrolein	2.0 25.5	-23.0	-1.5	-17.7	3.5	11.0	50 30	30	30	30	30	30
1,1-Dichloroethene	6.0 -2.2	-2.3	9.7	-12.5	7.5	-6.1	50 30	30	30	30	30	30
Acetone	40.0 -14.1	-8.2	6.7	-13.3	2.4	-13.4	50 30	30	30	30	30	30
Freon 113	-16.7 2.4	-10.3	15.9	-5.5	14.3	-0.1	50 30	30	30	30	30	30
Methyl iodide	0.5 0.8	-4.9	8.9	-10.5	8.6	-3.4	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.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

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	-0.5 0.1	-4.5	8.0	-1.2	-2.1	0.1	50 30	30	30	30	30	30
Carbon disulfide	-5.9 0.8	-3.8	11.5	-9.8	9.7	-2.4	50 30	30	30	30	30	30
Methyl acetate	2.4 -1.3	-9.1	-1.8	-13.8	17.3	6.3	50 30	30	30	30	30	30
Allyl chloride	5.6 0.7	-3.5	6.7	-12.3	6.9	-4.0	50 30	30	30	30	30	30
Methylene Chloride	2.7 -0.8	-3.3	9.5	-11.1	8.0	-4.9	50 30	30	30	30	30	30
t-Butyl alcohol	-10.1 -4.7	8.9	15.5	-8.9	4.3	-5.0	50 30	30	30	30	30	30
Acrylonitrile	++++ 3.2	++++	-5.6	-15.8	16.1	2.1	30		50	30	30	30
Methyl tert-butyl ether	-2.1 6.1	-8.3	4.9	-11.3	10.2	0.4	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	5.3 1.0	-7.2	6.5	-11.0	9.4	-3.9	50 30	30	30	30	30	30
n-Hexane	-18.2 5.8	-15.3	13.7	-6.9	16.5	4.4	50 30	30	30	30	30	30
1,1-Dichloroethane	-0.5 1.6	-6.1	8.6	-9.9	9.4	-3.1	50 30	30	30	30	30	30
di-Isopropyl ether	-3.4 5.9	-9.3	6.5	-11.2	11.5	0.0	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-4.6 7.1	-11.7	7.4	-11.4	11.3	1.9	50 30	30	30	30	30	30
Ethyl t-butyl ether	-5.1 8.9	-11.2	7.0	-12.7	11.9	1.2	50 30	30	30	30	30	30
2-Butanone (MEK)	-10.9 2.6	-7.0	10.1	-13.5	16.6	2.1	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-0.5 3.4	-6.3	7.6	-10.4	8.2	-2.0	50 30	30	30	30	30	30
2,2-Dichloropropane	3.7 0.3	-4.4	7.7	-10.7	7.7	-4.3	50 30	30	30	30	30	30
Propionitrile	46.3 0.1	4.1	-2.4	-18.5	9.2	-2.0	50 30	30	30	30	30	30
Methacrylonitrile	-25.3 10.4	-23.1	10.3	-5.8	24.5	8.9	50 30	30	30	30	30	30
Bromochloromethane	-14.3 5.8	-11.1	12.1	-6.9	13.0	1.4	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.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

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
Tetrahydrofuran	++++ 7.3	-30.8	13.0	-15.3	20.6	5.3	30	50	30	30	30	30
Chloroform	2.9 0.8	-8.1	8.4	-10.9	10.3	-3.4	50 30	30	30	30	30	30
1,1,1-Trichloroethane	5.4 0.4	-6.9	8.7	-11.2	8.0	-4.4	50 30	30	30	30	30	30
Cyclohexane	-17.7 6.2	-8.8	11.2	-8.4	14.3	3.2	50 30	30	30	30	30	30
Carbon tetrachloride	0.9 2.2	-9.2	9.5	-10.8	9.9	-2.5	50 30	30	30	30	30	30
1,1-Dichloropropene	2.2 3.2	-10.5	8.9	-12.5	10.0	-1.3	50 30	30	30	30	30	30
Isobutyl alcohol	-9.3 13.0	-2.8	-0.8	-15.3	12.4	2.7	50 30	30	30	30	30	30
Benzene	3.4 0.3	-5.7	11.2	-12.3	7.6	-4.4	50 30	30	30	30	30	30
1,2-Dichloroethane	1.4 1.1	-3.4	9.1	-12.2	7.7	-3.6	50 30	30	30	30	30	30
t-Amyl methyl ether	-5.6 9.4	-10.2	4.0	-11.4	12.0	1.8	50 30	30	30	30	30	30
n-Heptane	-5.7 -0.2	-17.6	15.8	-6.4	11.9	2.2	50 30	30	30	30	30	30
n-Butanol	++++ 0.1	22.5	-1.6	-21.8	11.2	-2.4	30	50	30	30	30	30
Trichloroethene	-1.2 3.0	-7.0	9.6	-11.5	9.2	-2.1	50 30	30	30	30	30	30
Methylcyclohexane	-18.5 8.0	-14.7	11.9	-7.8	16.1	4.9	50 30	30	30	30	30	30
1,2-Dichloropropane	-3.6 3.6	-6.4	8.8	-10.9	10.5	-1.9	50 30	30	30	30	30	30
Dibromomethane	-0.9 4.1	-6.4	8.7	-13.9	10.1	-1.7	50 30	30	30	30	30	30
1,4-Dioxane	++++ -0.5	++++	-32.3	4.0	22.2	6.5	30		50	30	30	30
Methyl methacrylate	++++ 12.6	-17.9	3.1	-19.3	14.2	7.3	30	50	30	30	30	30
Bromodichloromethane	-2.1 6.9	-8.7	4.4	-10.9	10.3	0.0	50 30	30	30	30	30	30
2-Nitropropane	12.9 -2.6	6.1	0.7	-20.1	4.6	-1.4	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.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

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	-4.0 7.1	-12.0	4.4	-1.5	1.3	4.7	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-7.2 11.5	-14.8	6.0	-11.1	13.3	2.3	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-19.2 12.0	-15.6	5.4	-10.3	20.4	7.2	50 30	30	30	30	30	30
Toluene	2.3 1.9	-7.7	9.5	-11.2	8.0	-2.8	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-8.3 13.1	-11.1	1.5	-11.2	12.6	3.3	50 30	30	30	30	30	30
Ethyl methacrylate	++++ 23.4	-26.1	-5.7	-17.6	15.4	10.5	30	50	30	30	30	30
1,1,2-Trichloroethane	5.9 1.6	-6.1	6.3	-12.4	6.6	-1.9	50 30	30	30	30	30	30
Tetrachloroethene	4.3 -0.2	-4.2	7.2	-11.7	7.8	-3.2	50 30	30	30	30	30	30
1,3-Dichloropropane	-6.3 5.4	-6.1	6.2	-10.0	10.6	0.2	50 30	30	30	30	30	30
2-Hexanone	-20.3 11.4	-10.9	0.1	-12.4	23.5	8.7	50 30	30	30	30	30	30
Dibromochloromethane	-8.1 12.5	-13.3	5.7	-11.3	11.9	2.6	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-12.9 9.6	-11.6	6.8	-10.9	15.6	3.5	50 30	30	30	30	30	30
1-Chlorohexane	9.9 1.3	-6.2	5.2	-14.3	7.4	-3.3	50 30	30	30	30	30	30
Chlorobenzene	2.2 1.3	-5.9	9.0	-11.5	8.2	-3.3	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-1.1 5.2	-9.6	7.8	-11.7	10.0	-0.6	50 30	30	30	30	30	30
Ethylbenzene	-2.4 4.6	-7.8	7.1	-11.6	10.6	-0.5	50 30	30	30	30	30	30
m&p-Xylene	-5.0 5.0	-8.0	7.3	-11.2	11.9	0.1	50 30	30	30	30	30	30
o-Xylene	-6.6 7.0	-11.9	8.3	-10.4	12.6	0.9	50 30	30	30	30	30	30
Styrene	-16.0 14.9	-16.5	4.2	-11.7	17.7	7.4	50 30	30	30	30	30	30
Bromoform	-11.0 16.6	-15.0	4.1	-12.9	13.0	5.2	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.: _____

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

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	-7.2 7.3	-10.9	7.1	-11.8	13.1	2.3	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-7.5 6.9	-8.5	6.2	-9.3	11.5	0.7	50 30	30	30	30	30	30
Bromobenzene	-1.5 5.5	-10.3	6.0	-9.6	11.3	-1.4	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-11.8 4.4	-10.9	9.6	-11.7	18.3	2.1	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-10.7 6.0	-9.6	8.8	-6.9	12.7	-0.3	50 30	30	30	30	30	30
N-Propylbenzene	-1.8 3.4	-10.0	8.3	-10.4	10.8	-0.4	50 30	30	30	30	30	30
2-Chlorotoluene	3.8 3.3	-9.5	5.9	-10.3	9.6	-2.9	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-8.3 8.0	-12.9	8.8	-10.0	12.7	1.8	50 30	30	30	30	30	30
4-Chlorotoluene	-4.6 3.1	-8.3	8.8	-8.9	11.2	-1.4	50 30	30	30	30	30	30
tert-Butylbenzene	-5.5 5.8	-9.8	6.6	-9.1	11.0	1.0	50 30	30	30	30	30	30
Pentachloroethane	-11.5 12.2	-15.1	5.4	-1.6	3.0	7.5	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-11.6 8.5	-10.4	7.2	-9.4	13.1	2.6	50 30	30	30	30	30	30
sec-Butylbenzene	-3.8 5.0	-10.0	7.1	-10.7	10.7	1.7	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-3.1 4.6	-6.2	7.8	-11.0	10.0	-2.1	50 30	30	30	30	30	30
p-Isopropyltoluene	-8.5 7.7	-12.5	6.4	-10.3	14.2	3.0	50 30	30	30	30	30	30
1,4-Dichlorobenzene	4.8 0.9	-7.4	9.5	-9.5	7.1	-5.3	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-2.0 5.7	-9.4	8.0	-10.8	9.8	-1.3	50 30	30	30	30	30	30
Benzyl chloride	-16.6 16.7	-18.4	7.9	-7.6	11.1	6.8	50 30	30	30	30	30	30
n-Butylbenzene	-5.8 4.2	-10.2	6.8	-9.2	12.7	1.4	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-0.1 1.8	-6.4	9.7	-11.2	9.6	-3.4	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.: 410-214590-1 Analy Batch No.: 581544
Environment Testing, LLC

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2024 16:05 Calibration End Date: 12/03/2024 18:18 Calibration ID: 67963

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	-28.1 11.8	-9.2	7.5	-7.0	18.5	6.6	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-1.4 4.6	-9.5	8.3	-12.1	11.0	-0.9	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-0.3 7.2	-7.6	2.7	-14.0	12.5	-0.5	50 30	30	30	30	30	30
Hexachlorobutadiene	6.0 -0.4	-4.8	5.0	-12.1	7.9	-1.6	50 30	30	30	30	30	30
Naphthalene	-15.9 19.1	-15.5	1.1	-11.3	15.5	6.8	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-1.4 8.0	-13.2	4.2	-11.6	13.2	0.8	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.5 -0.2	-1.1	0.6	-0.1	-0.1	1.3	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-1.3 -1.8	0.4	0.4	0.4	-0.9	2.7	50 30	30	30	30	30	30
Toluene-d8 (Surr)	0.1 -0.7	0.2	0.0	0.1	0.1	0.2	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-1.6 0.4	0.0	0.2	-0.3	0.3	1.1	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
 Lims ID: IC std1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 03-Dec-2024 16:05:30 ALS Bottle#: 2 Worklist Smp#: 13
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0132221-013
 Misc. Info.: IC STD1
 Operator ID: knk41612 Instrument ID: 16334
 Sublist: chrom-MSV_16334_25mL*sub4
 Method: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Dec-2024 09:41:57 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1610

First Level Reviewer: DVW2

Date: 04-Dec-2024 08:12:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.709	1.709	0.000	38	10274	0.2000	0.1581	
5 Chloromethane	50	1.885	1.879	0.006	98	18766	0.2000	0.2407	M
7 Butadiene	39	1.965	1.965	0.000	89	15480	0.2000	0.2157	M
6 Vinyl chloride	62	1.983	1.977	0.006	97	14365	0.2000	0.2034	
9 Bromomethane	94	2.276	2.269	0.007	91	10747	0.2000	0.2340	M
10 Chloroethane	64	2.306	2.306	0.000	98	7859	0.2000	0.2204	
11 Dichlorofluoromethane	67	2.507	2.507	0.000	96	22399	0.2000	0.2242	
12 Trichlorofluoromethane	101	2.605	2.599	0.006	97	14635	0.2000	0.1871	
13 Ethyl ether	59	2.769	2.763	0.006	89	6055	0.2000	0.2114	M
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.830	2.843	-0.012	92	13177	0.2000	0.2234	
17 Acrolein	56	2.928	2.910	0.018	98	30260	9.76	9.96	M
18 1,1-Dichloroethene	96	3.025	3.025	0.000	98	9708	0.2000	0.2119	
19 Acetone	43	3.068	3.062	0.006	54	12073	2.00	2.80	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.068	3.068	0.000	77	8037	0.2000	0.1667	
21 Isopropyl alcohol	45		3.178				ND	ND	MU
22 Iodomethane	142	3.190	3.190	0.000	99	17814	0.2000	0.2010	
23 Ethyl bromide	108	3.214	3.214	0.000	96	8046	0.2003	0.1993	
24 Carbon disulfide	76	3.281	3.275	0.006	99	31600	0.2000	0.1882	
25 Methyl acetate	43	3.422	3.409	0.013	20	3726	0.2000	0.2049	M
27 3-Chloro-1-propene	41	3.434	3.422	0.012	92	16809	0.2000	0.2111	
29 Methylene Chloride	84	3.580	3.580	0.000	84	10403	0.2000	0.2053	
* 30 t-Butyl alcohol-d10 (IS)	65	3.617	3.629	-0.012	90	75156	50.0	50.0	M
31 2-Methyl-2-propanol	59	3.727	3.720	0.007	1	3177	4.00	3.60	
32 Acrylonitrile	53		3.879				ND	ND	
33 Methyl tert-butyl ether	73	3.940	3.928	0.012	71	20018	0.2000	0.1958	
34 trans-1,2-Dichloroethene	96	3.940	3.934	0.006	98	11338	0.2000	0.2106	M
35 Hexane	57	4.342	4.330	0.012	94	11511	0.2000	0.1637	
37 1,1-Dichloroethane	63	4.562	4.562	0.000	95	19419	0.2000	0.1991	
38 Isopropyl ether	45	4.635	4.635	0.000	94	29623	0.2000	0.1931	
39 2-Chloro-1,3-butadiene	53	4.684	4.678	0.006	85	14251	0.2000	0.1909	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.177	5.190	-0.013	96	25638	0.2000	0.1898	M
41 2-Butanone (MEK)	43	5.440	5.391	0.049	27	13169	2.00	1.78	Ma
42 cis-1,2-Dichloroethene	96	5.434	5.421	0.013	80	11716	0.2000	0.1989	
43 2,2-Dichloropropane	77	5.427	5.440	-0.013	66	17224	0.2000	0.2074	a
45 Propionitrile	54	5.683	5.488	0.195	32	3506	4.00	5.85	M
48 Methacrylonitrile	67	5.714	5.702	0.012	86	11903	2.00	1.49	
49 Chlorobromomethane	128	5.751	5.757	-0.007	58	3786	0.2000	0.1713	M
50 Tetrahydrofuran	71		5.781				ND	ND	MU
51 Chloroform	83	5.921	5.921	0.000	94	19698	0.2000	0.2058	
53 1,1,1-Trichloroethane	97	6.135	6.141	-0.006	16	17857	0.2000	0.2108	M
\$ 52 Dibromofluoromethane (Surr)	113	6.141	6.141	0.000	93	476726	10.0	9.95	
S 47 1,2-Dichloroethene, Total	100				0			0.4096	
54 Cyclohexane	56	6.232	6.244	-0.012	75	13910	0.2000	0.1647	
55 Carbon tetrachloride	117	6.360	6.360	0.000	92	14622	0.2000	0.2018	
56 1,1-Dichloropropene	75	6.366	6.366	0.000	96	15453	0.2000	0.2045	
58 Isobutyl alcohol	41	6.592	6.567	0.025	31	3347	10.0	9.07	M
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.598	6.592	0.006	65	90275	10.0	9.87	
60 Benzene	78	6.634	6.628	0.006	95	46614	0.2000	0.2067	
61 1,2-Dichloroethane	62	6.702	6.702	0.000	86	10485	0.2000	0.2029	a
63 Tert-amyl methyl ether	73	6.842	6.842	0.000	95	21163	0.2000	0.1888	
* 64 Fluorobenzene (IS)	96	7.049	7.049	0.000	99	2031304	10.0	10.0	
65 n-Heptane	43	7.067	7.073	-0.006	40	13038	0.2000	0.1887	
67 n-Butanol	56		7.482				ND	ND	
68 Trichloroethene	95	7.543	7.537	0.006	95	11450	0.2000	0.1976	
69 Methylcyclohexane	83	7.842	7.842	0.000	89	14451	0.2000	0.1631	
70 1,2-Dichloropropane	63	7.866	7.872	-0.006	94	10523	0.2000	0.1928	
71 2-ethoxy-2-methyl butane	87	7.903	7.909	-0.006	93	14391	0.2000	0.1830	
73 1,4-Dioxane	88		7.976				ND	ND	
74 Dibromomethane	93	7.988	7.982	0.006	92	4436	0.2000	0.1981	M
72 Methyl methacrylate	69	8.012	7.988	0.024	16	1730	0.2000	0.1143	M
76 Dichlorobromomethane	83	8.232	8.232	0.000	98	12252	0.2000	0.1959	
77 2-Nitropropane	41	8.512	8.512	0.000	94	5212	1.00	1.13	M
79 1-Bromo-2-chloroethane	63	8.634	8.622	0.012	96	9008	0.2000	0.1920	M
81 cis-1,3-Dichloropropene	75	8.811	8.799	0.012	95	14235	0.2000	0.1856	M
82 4-Methyl-2-pentanone (MIBK)	43	9.012	9.006	0.006	97	30907	2.00	1.62	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	94	2036539	10.0	10.0	
84 Toluene	92	9.225	9.225	0.000	98	28904	0.2000	0.2046	
85 trans-1,3-Dichloropropene	75	9.536	9.518	0.018	91	10848	0.2000	0.1835	M
86 Ethyl methacrylate	69	9.622	9.609	0.013	89	4559	0.2000	0.1278	
107 1,1,2-Trichloroethane	97	9.738	9.737	0.001	90	6910	0.2000	0.2118	
108 Tetrachloroethene	166	9.829	9.823	0.006	97	13301	0.2000	0.2086	
109 1,3-Dichloropropane	76	9.914	9.908	0.006	91	10571	0.2000	0.1874	
110 2-Hexanone	43	10.006	9.987	0.019	93	21158	2.00	1.59	M
S 106 1,3-Dichloropropene, Total	100				0			0.3691	
112 Chlorodibromomethane	129	10.134	10.134	0.000	89	7317	0.2000	0.1837	
113 Ethylene Dibromide	107	10.250	10.243	0.007	98	5058	0.2000	0.1742	
* 114 Chlorobenzene-d5 (IS)	117	10.707	10.707	0.000	86	1466082	10.0	10.0	
116 Chlorobenzene	112	10.731	10.731	0.000	96	32409	0.2000	0.2043	
115 1-Chlorohexane	91	10.731	10.731	0.000	67	16714	0.2000	0.2197	
117 1,1,1,2-Tetrachloroethane	131	10.823	10.823	0.000	93	10185	0.2000	0.1979	
118 Ethylbenzene	91	10.835	10.829	0.006	98	53649	0.2000	0.1952	
120 m-Xylene & p-Xylene	106	10.957	10.951	0.006	100	40262	0.4000	0.3798	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 119 Xylenes, Total	106				0			0.5667	
121 o-Xylene	106	11.292	11.292	0.000	96	18910	0.2000	0.1869	
122 Styrene	104	11.310	11.310	0.000	94	25866	0.2000	0.1680	a
123 Bromoform	173	11.463	11.463	0.000	92	3663	0.2000	0.1780	
124 Isopropylbenzene	105	11.603	11.603	0.000	96	44131	0.2000	0.1857	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.743	11.743	0.000	89	691148	10.0	9.83	
128 1,1,2,2-Tetrachloroethane	83	11.859	11.859	0.000	67	6755	0.2000	0.1850	
129 Bromobenzene	156	11.865	11.859	0.006	91	12057	0.2000	0.1969	
130 trans-1,4-Dichloro-2-butene	53	11.890	11.883	0.007	93	14354	2.00	1.76	
131 1,2,3-Trichloropropane	110	11.902	11.902	0.000	75	1739	0.2000	0.1786	
132 N-Propylbenzene	91	11.938	11.938	0.000	98	64636	0.2000	0.1965	
133 2-Chlorotoluene	126	12.011	12.011	0.000	97	13577	0.2000	0.2077	
134 1,3,5-Trimethylbenzene	105	12.085	12.085	0.000	94	42521	0.2000	0.1833	
135 4-Chlorotoluene	126	12.109	12.103	0.006	96	12906	0.2000	0.1909	
136 tert-Butylbenzene	134	12.322	12.322	0.000	91	9515	0.2000	0.1891	
137 Pentachloroethane	167	12.347	12.353	-0.006	76	6095	0.2000	0.1771	
138 1,2,4-Trimethylbenzene	105	12.371	12.365	0.006	96	41964	0.2000	0.1767	
139 sec-Butylbenzene	105	12.487	12.487	0.000	94	57852	0.2000	0.1924	
140 1,3-Dichlorobenzene	146	12.585	12.585	0.001	97	25262	0.2000	0.1939	
141 4-Isopropyltoluene	119	12.603	12.603	0.000	97	46957	0.2000	0.1830	
* 142 1,4-Dichlorobenzene-d4	152	12.639	12.639	0.000	95	787312	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.658	12.658	0.000	95	27913	0.2000	0.2096	
144 1,2,3-Trimethylbenzene	120	12.676	12.676	0.000	94	19903	0.2000	0.1960	
145 Benzyl chloride	126	12.749	12.737	0.012	98	2467	0.2000	0.1668	a
146 p-Diethylbenzene	119	12.877	12.877	0.000	93	30253	0.2000	0.1908	
147 n-Butylbenzene	92	12.895	12.895	0.000	97	24810	0.2000	0.1884	
148 1,2-Dichlorobenzene	146	12.920	12.920	0.000	98	22602	0.2000	0.1999	
150 1,2-Dibromo-3-Chloropropane	155	13.462	13.462	0.000	68	580	0.2000	0.1437	
151 1,3,5-Trichlorobenzene	180	13.597	13.590	0.007	96	20205	0.2000	0.1972	
152 1,2,4-Trichlorobenzene	180	14.017	14.011	0.006	95	16286	0.2000	0.1994	
153 Hexachlorobutadiene	225	14.103	14.103	0.001	95	9452	0.2000	0.2120	
154 Naphthalene	128	14.194	14.188	0.006	97	18287	0.2000	0.1683	
155 1,2,3-Trichlorobenzene	180	14.334	14.334	0.000	96	12544	0.2000	0.1971	
156 2-Methylnaphthalene	142	14.926	14.919	0.007	93	8956	0.2000	0.2834	
167 Pentane	43	2.769	2.769	0.000	36	650	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00155	Amount Added: 2.00	Units: uL	
MSV_LL_#2_826_00163	Amount Added: 2.00	Units: uL	
MSV_LL_GAS826_00247	Amount Added: 2.00	Units: uL	
MSV_29_826ISS_00057	Amount Added: 1.20	Units: uL	Run Reagent

Report Date: 09-Dec-2024 09:41:59

Chrom Revision: 2.3 12-Nov-2024 16:55:22

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D

Injection Date: 03-Dec-2024 16:05:30

Instrument ID: 16334

Operator ID: knk41612

Lims ID: IC std1

Worklist Smp#: 13

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

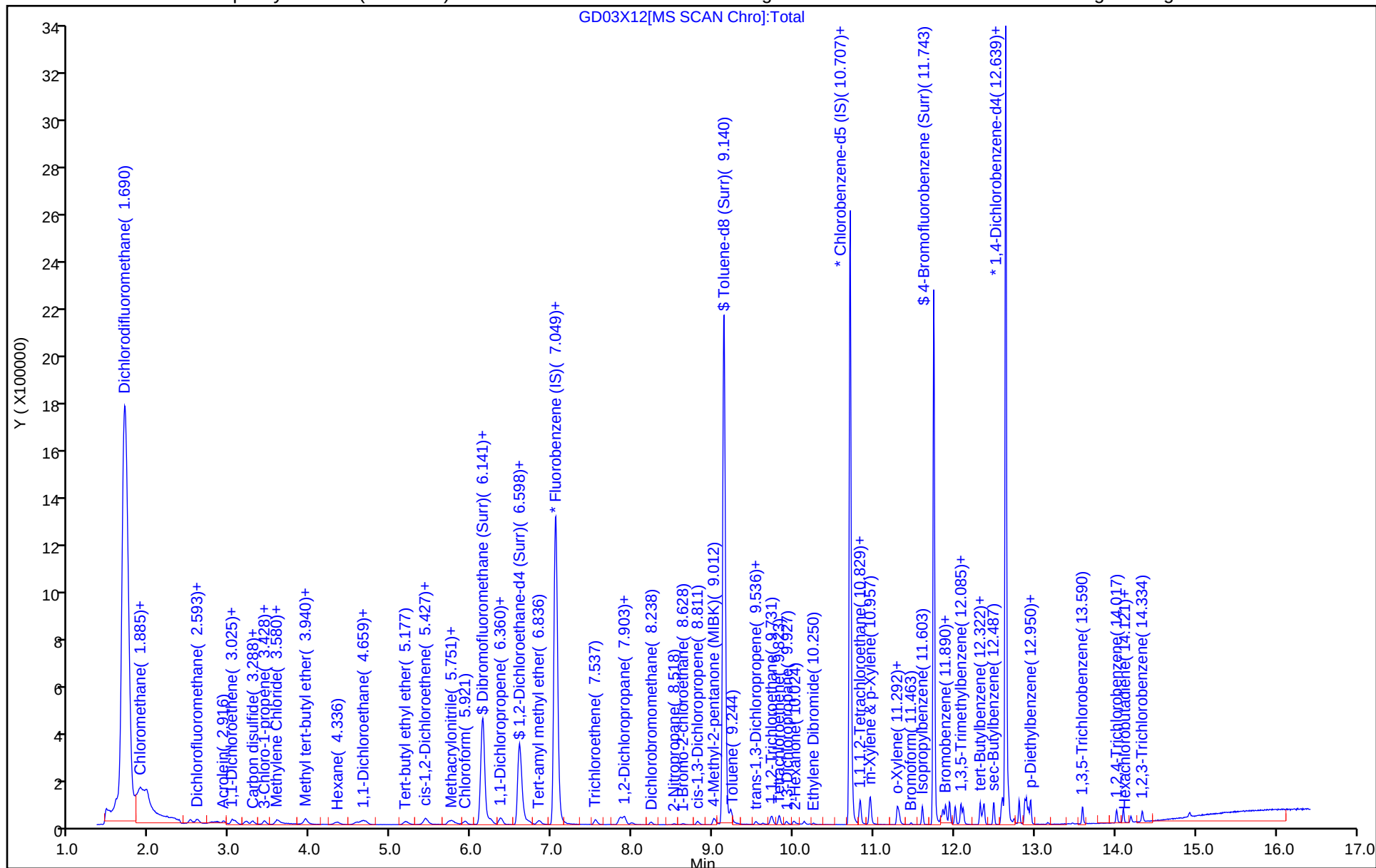
ALS Bottle#: 2

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

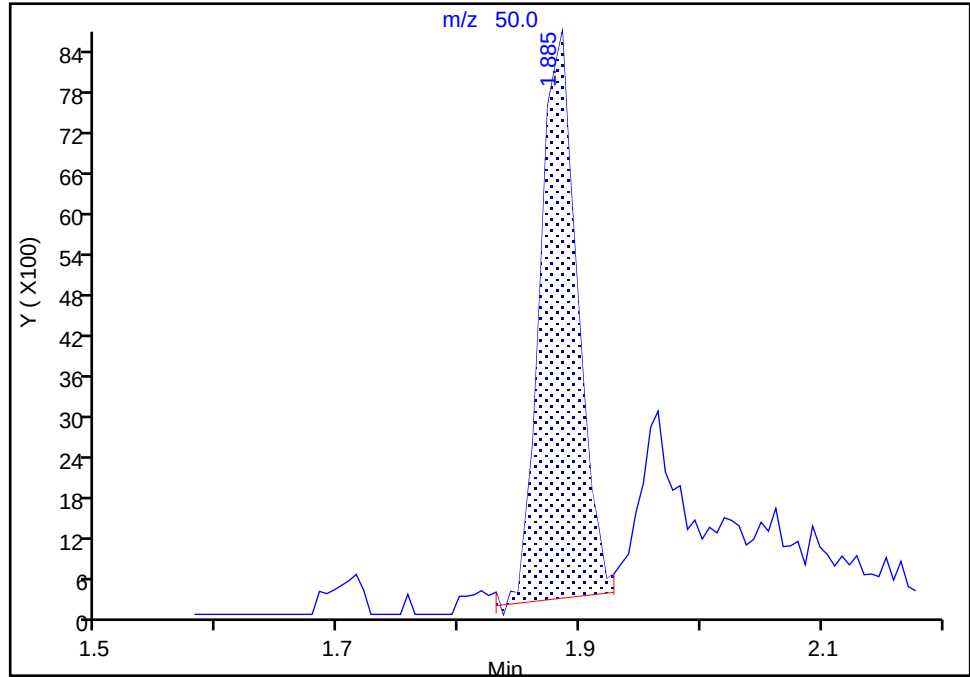
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

5 Chloromethane, CAS: 74-87-3

Signal: 1

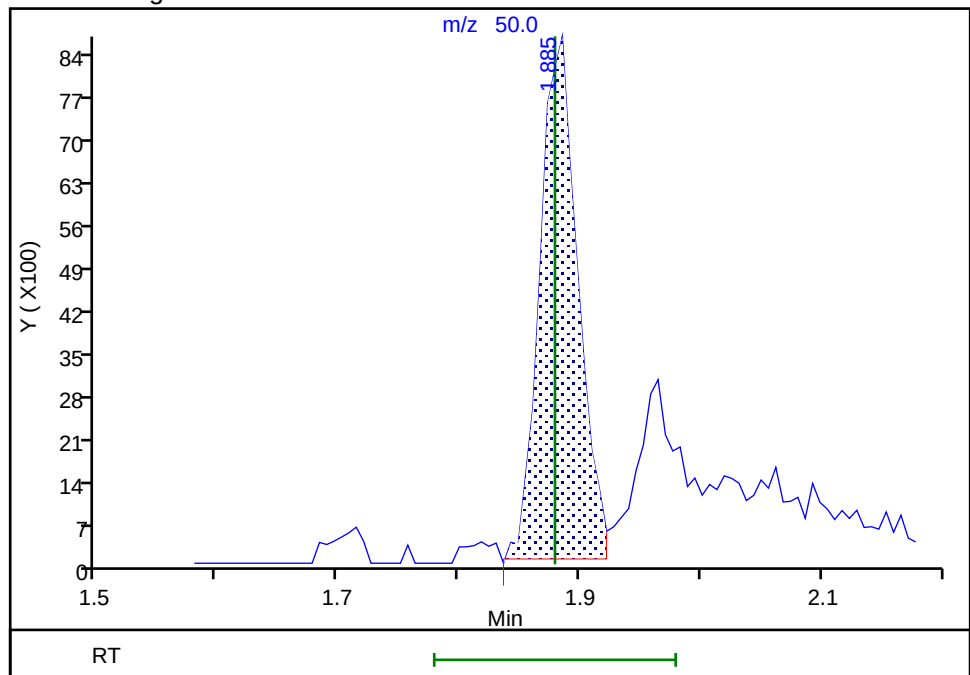
RT: 1.89
Area: 18080
Amount: 0.233386
Amount Units: ug/l

Processing Integration Results



RT: 1.89
Area: 18766
Amount: 0.240718
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:06:31 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

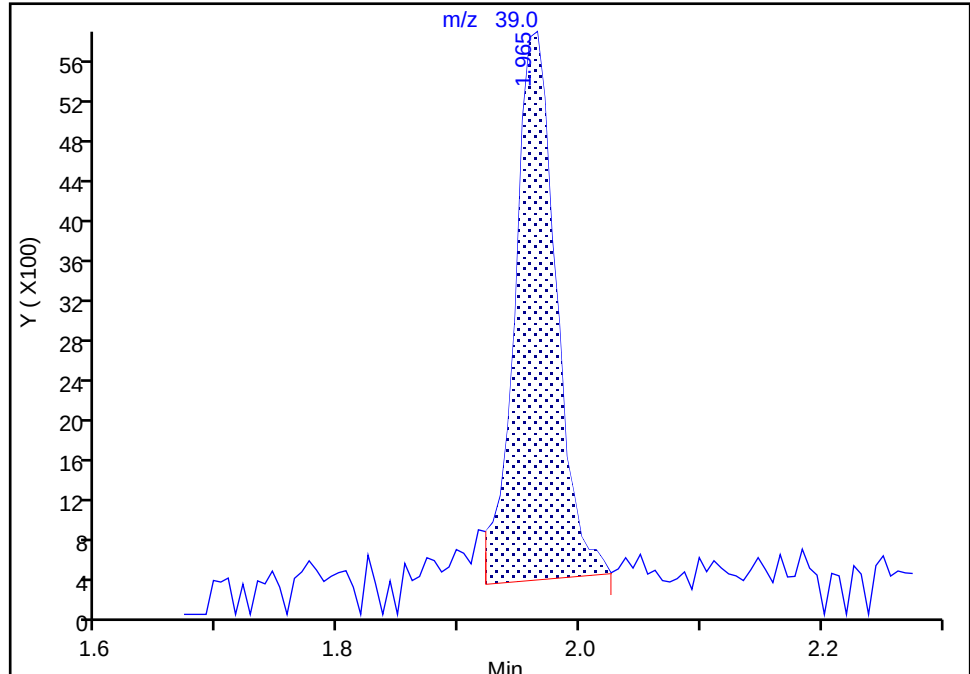
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

7 Butadiene, CAS: 106-99-0

Signal: 1

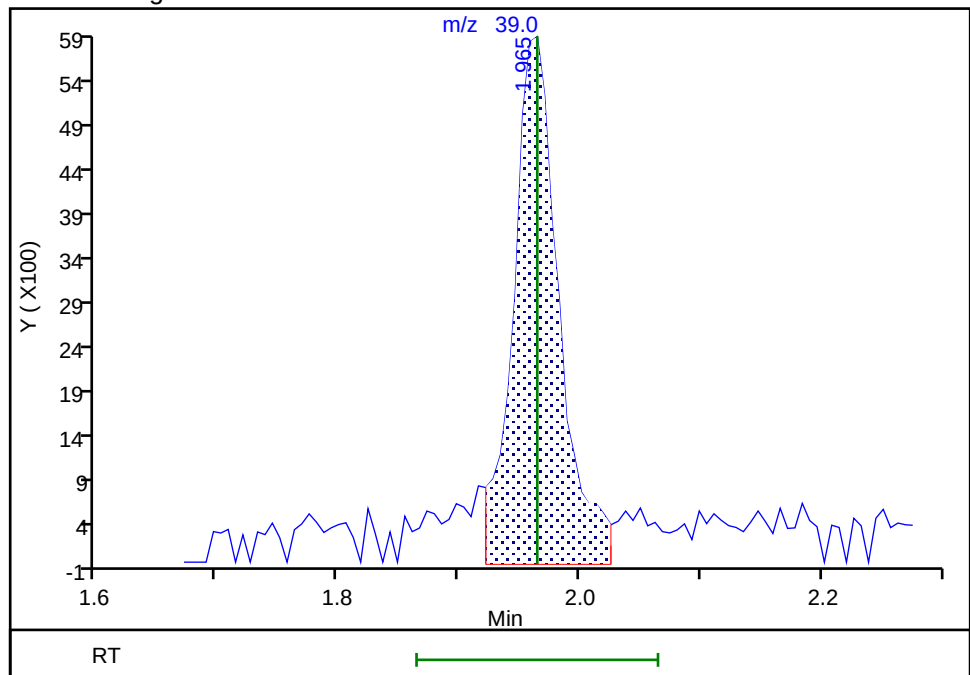
RT: 1.96
Area: 13031
Amount: 0.186111
Amount Units: ug/l

Processing Integration Results



RT: 1.96
Area: 15480
Amount: 0.215699
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:31:57 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

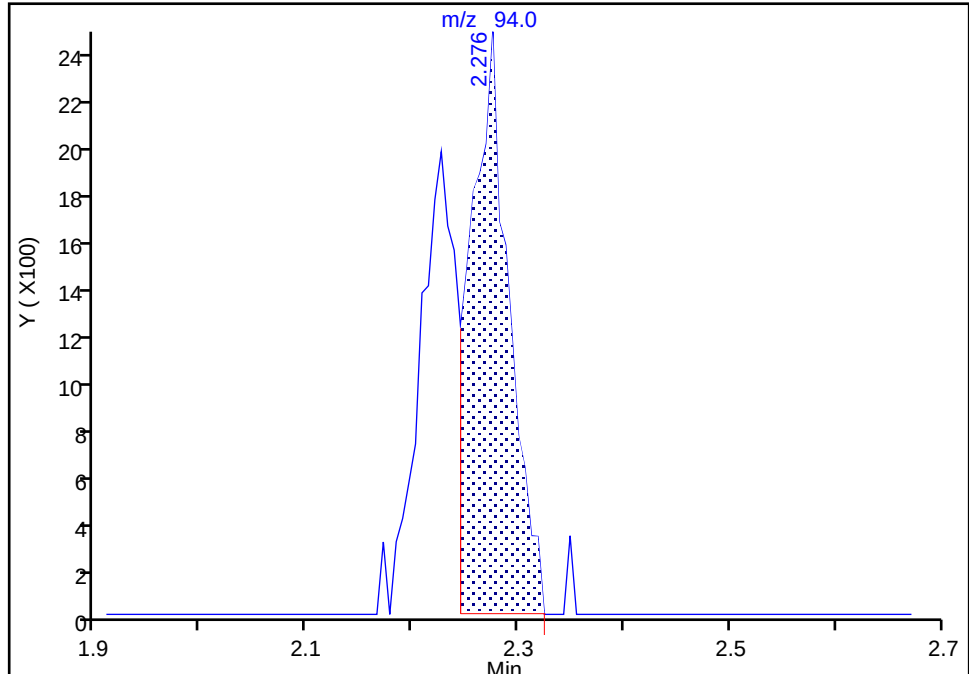
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

9 Bromomethane, CAS: 74-83-9

Signal: 1

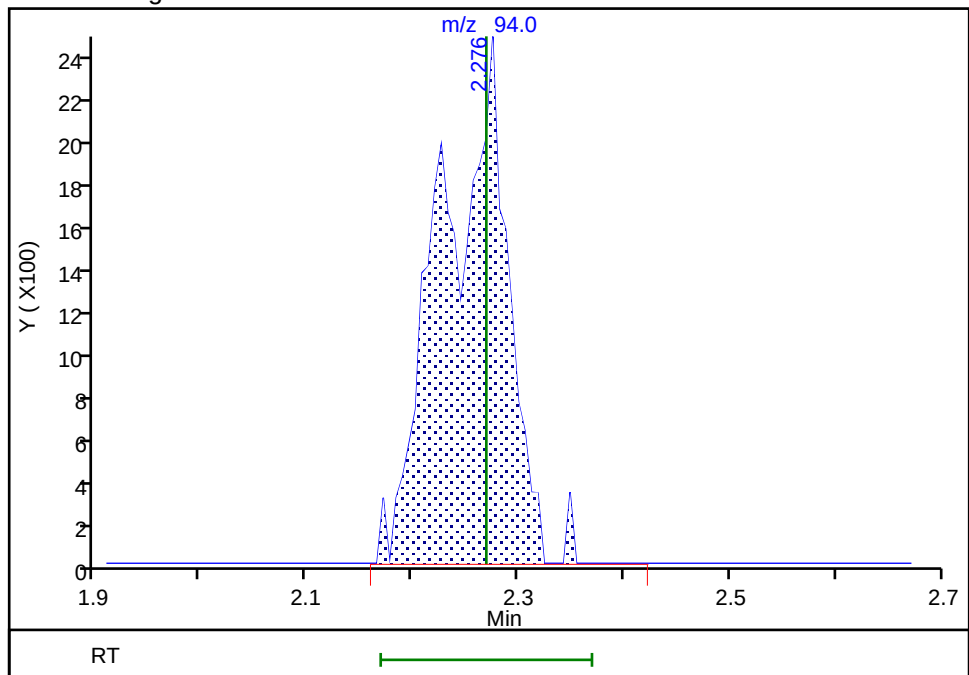
RT: 2.28
Area: 6275
Amount: 0.153973
Amount Units: ug/l

Processing Integration Results



RT: 2.28
Area: 10747
Amount: 0.234027
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:32:01 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

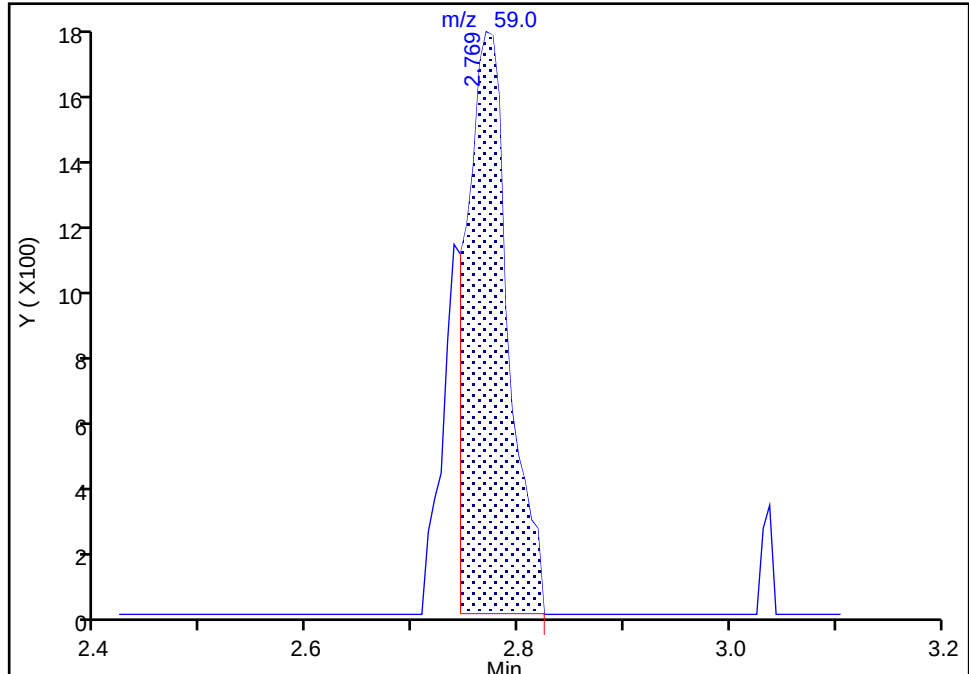
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

13 Ethyl ether, CAS: 60-29-7

Signal: 1

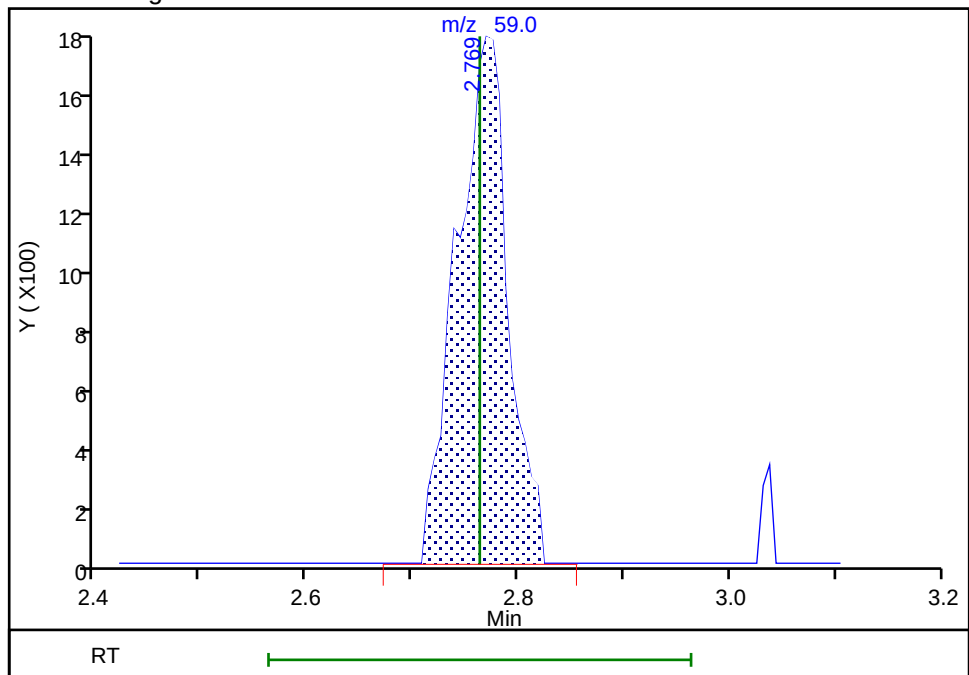
RT: 2.77
Area: 4951
Amount: 0.178670
Amount Units: ug/l

Processing Integration Results



RT: 2.77
Area: 6055
Amount: 0.211358
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:32:05 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

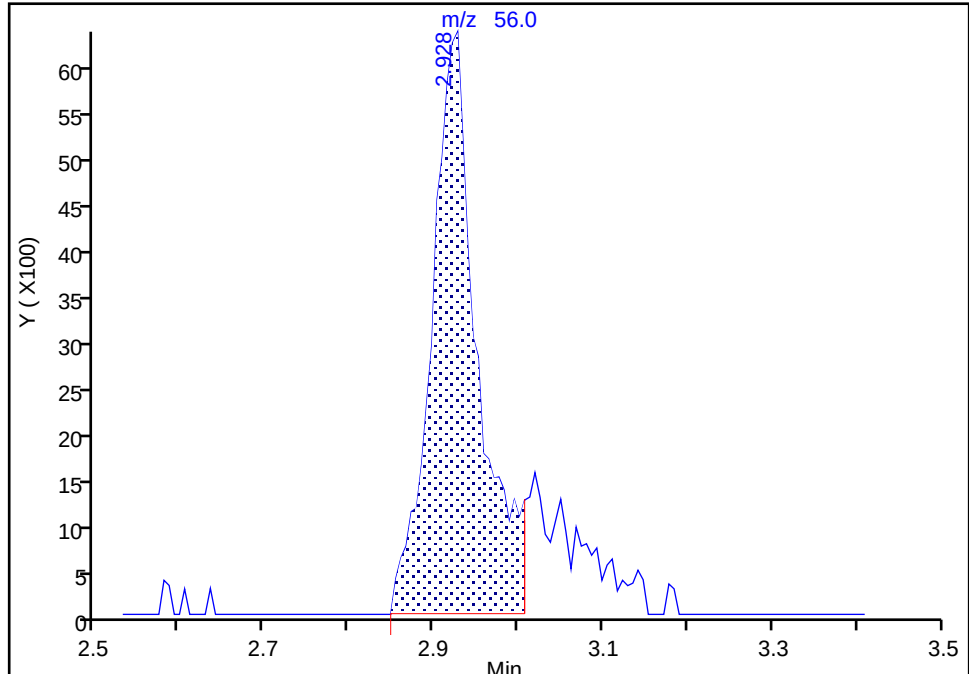
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Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

17 Acrolein, CAS: 107-02-8

Signal: 1

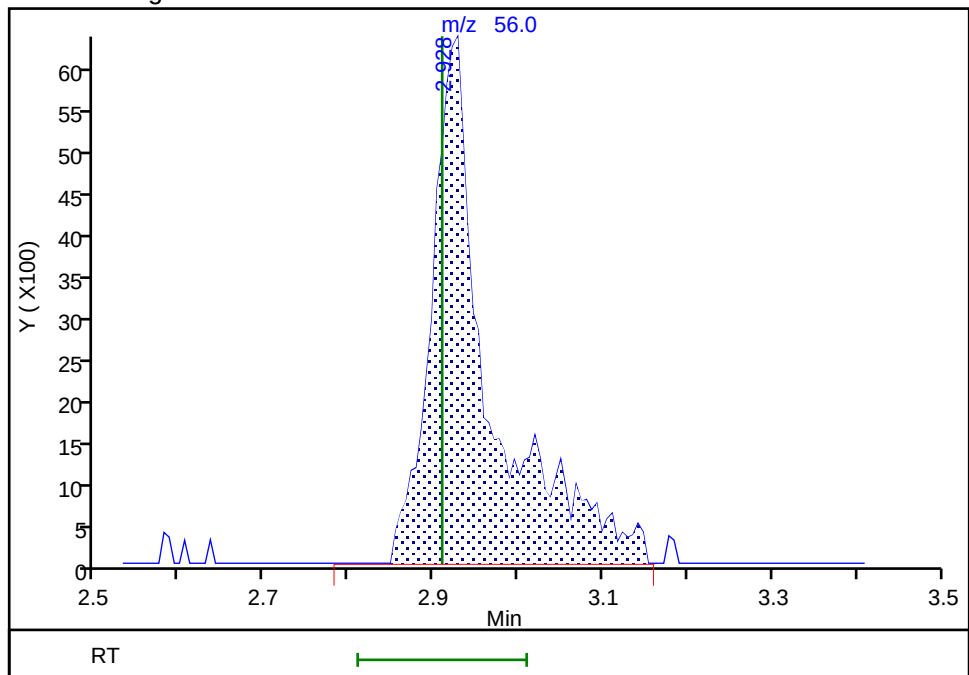
RT: 2.93
Area: 24096
Amount: 8.172303
Amount Units: ug/l

Processing Integration Results



RT: 2.93
Area: 30260
Amount: 9.958105
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:42:41 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

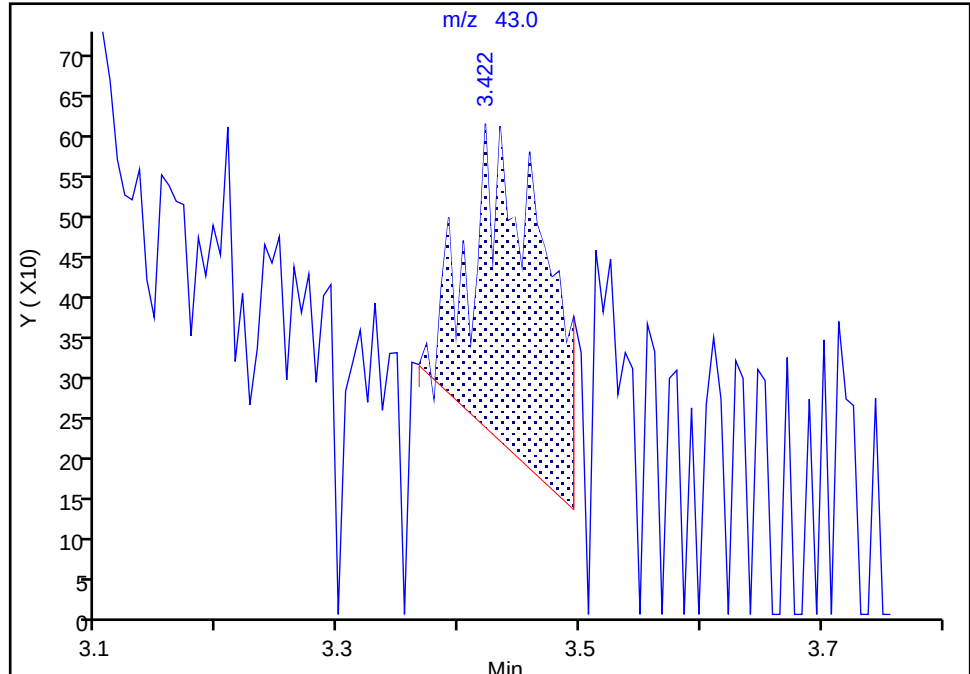
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Methyl acetate, CAS: 79-20-9

Signal: 1

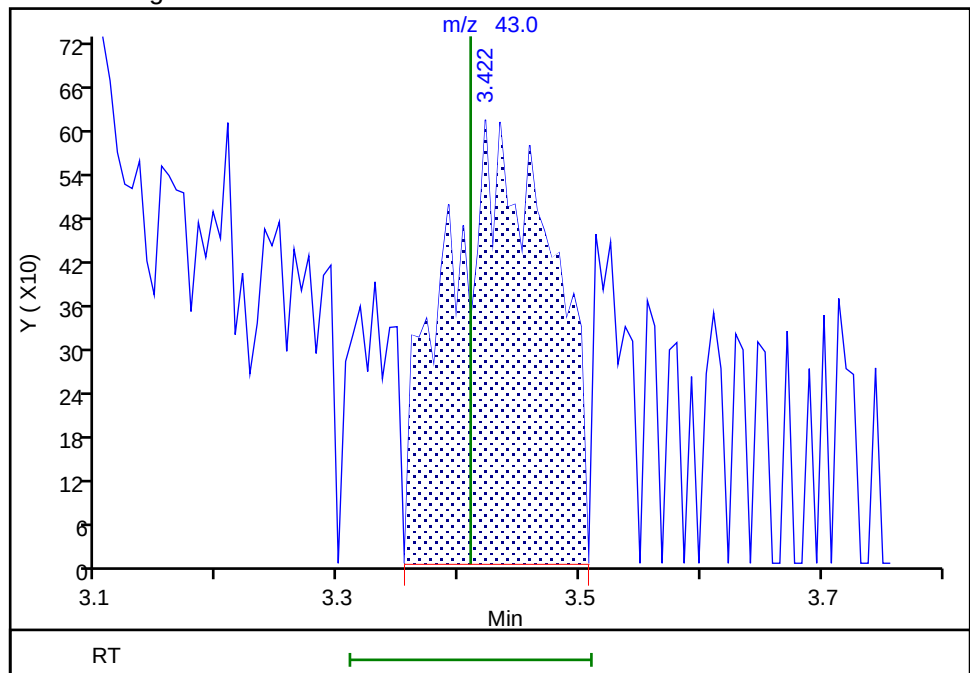
RT: 3.42
Area: 1713
Amount: 0.157749
Amount Units: ug/l

Processing Integration Results



RT: 3.42
Area: 3726
Amount: 0.204873
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:32:21 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

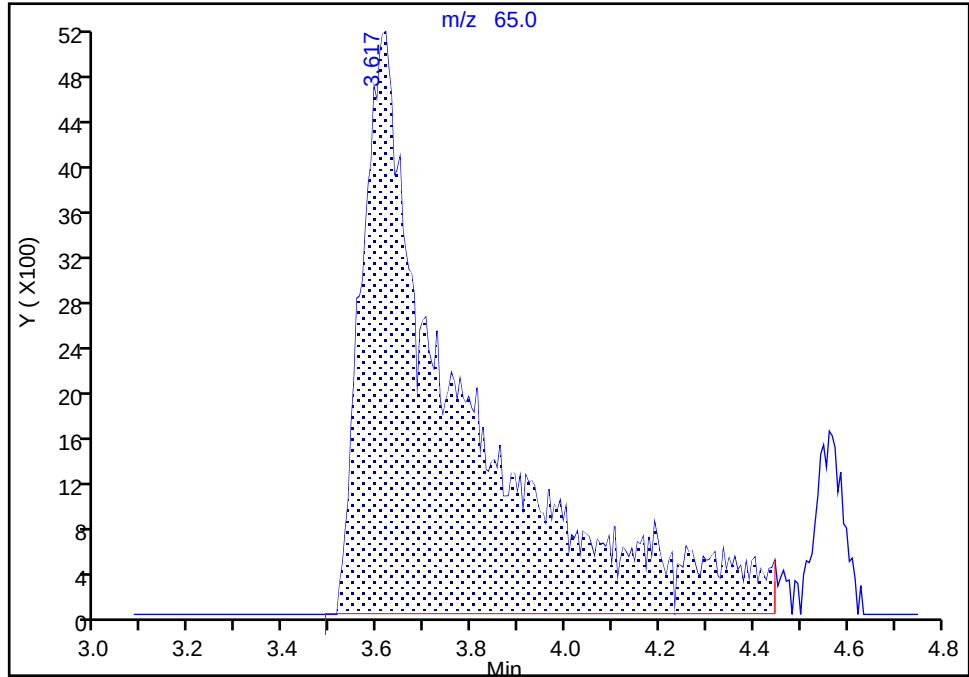
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

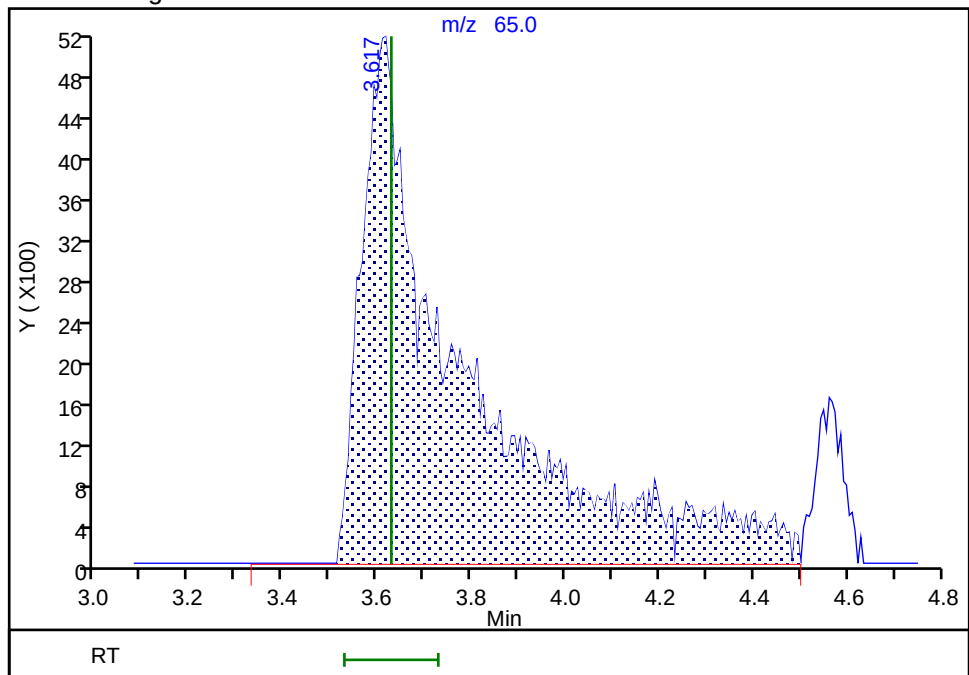
RT: 3.62
Area: 74378
Amount: 49.998300
Amount Units: ug/l

Processing Integration Results



RT: 3.62
Area: 75156
Amount: 49.998300
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:32:27 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

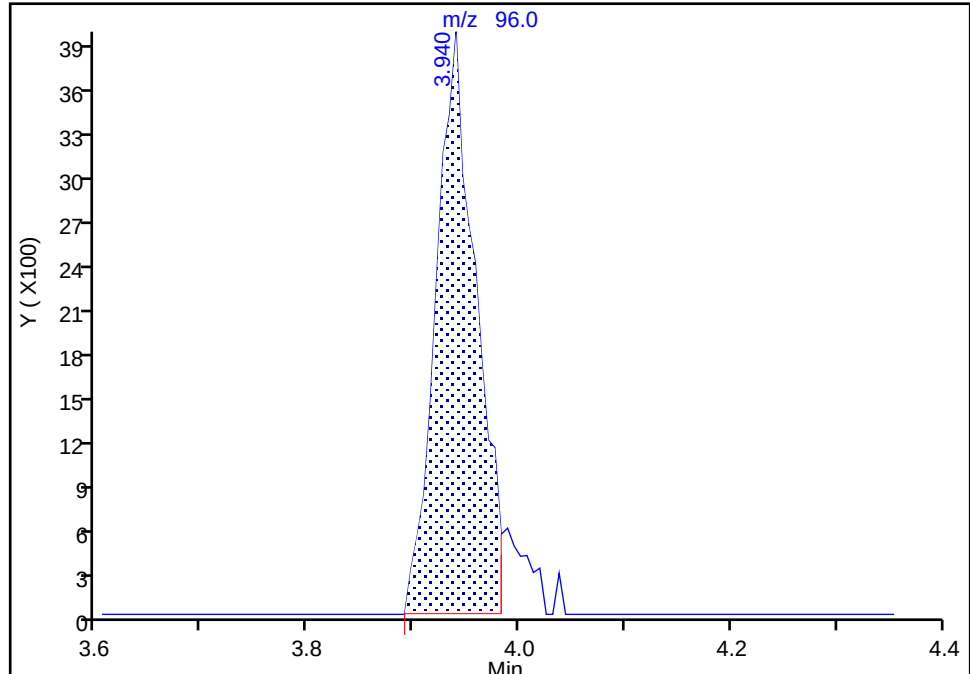
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

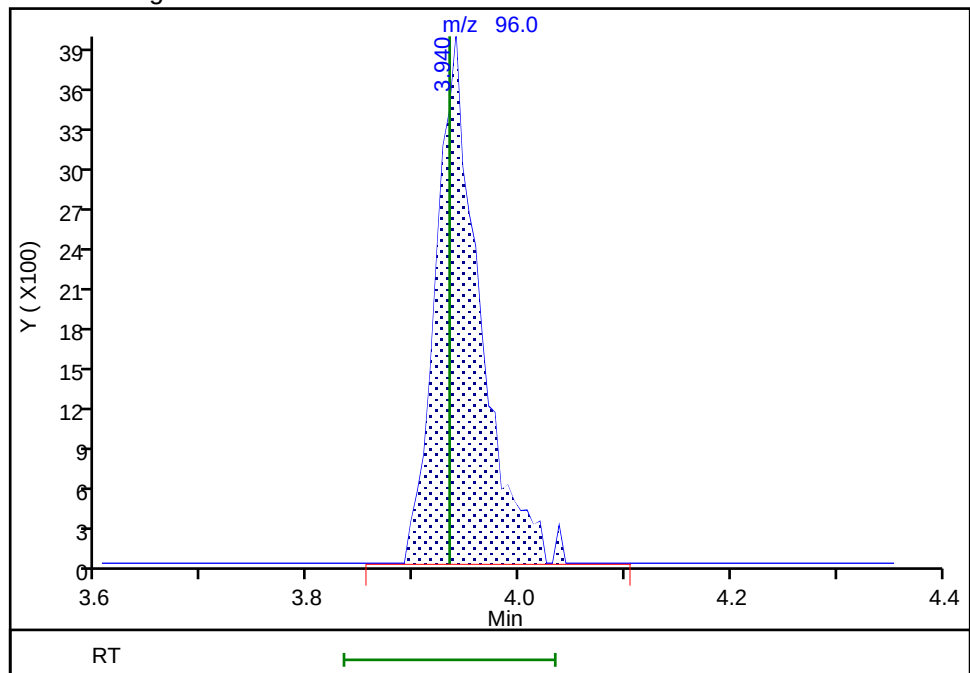
RT: 3.94
Area: 10348
Amount: 0.196298
Amount Units: ug/l

Processing Integration Results



RT: 3.94
Area: 11338
Amount: 0.210632
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:32:34 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

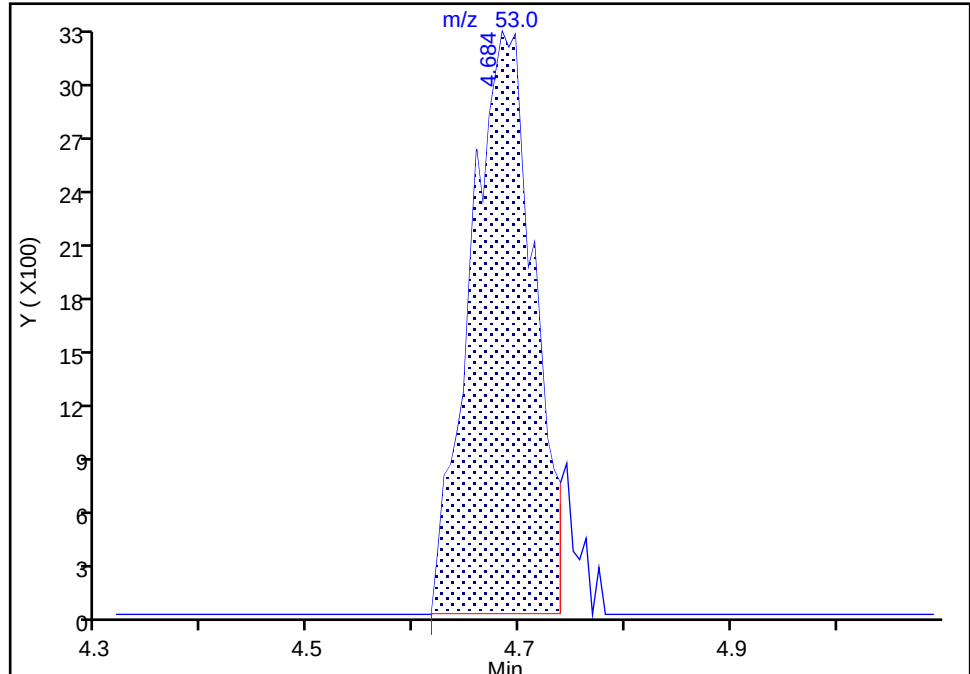
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Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

39 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

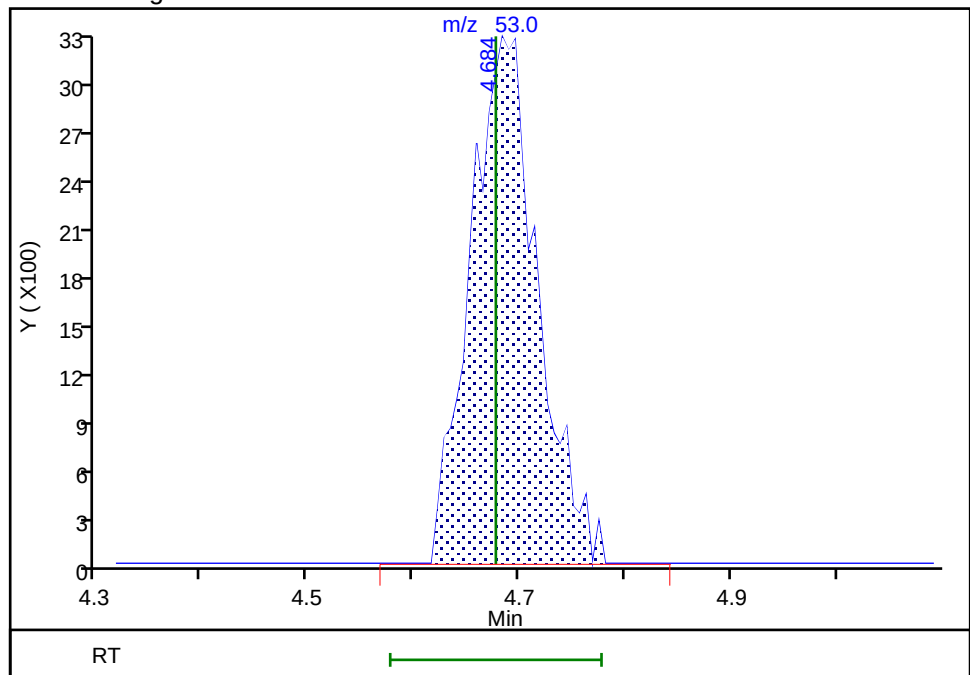
RT: 4.68
Area: 13457
Amount: 0.181601
Amount Units: ug/l

Processing Integration Results



RT: 4.68
Area: 14251
Amount: 0.190856
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:07:34 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

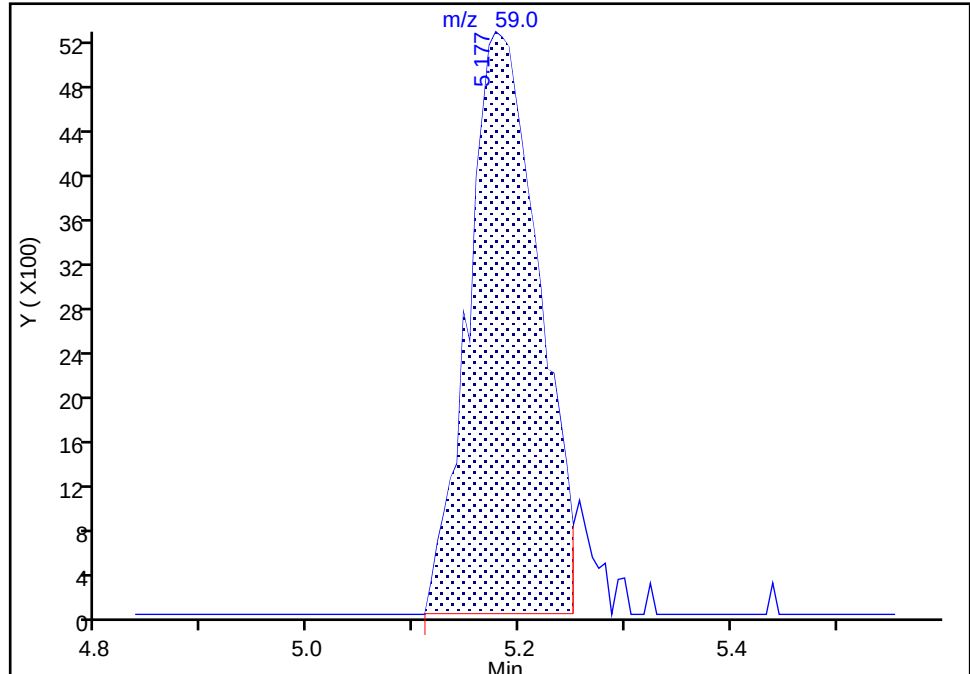
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

40 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

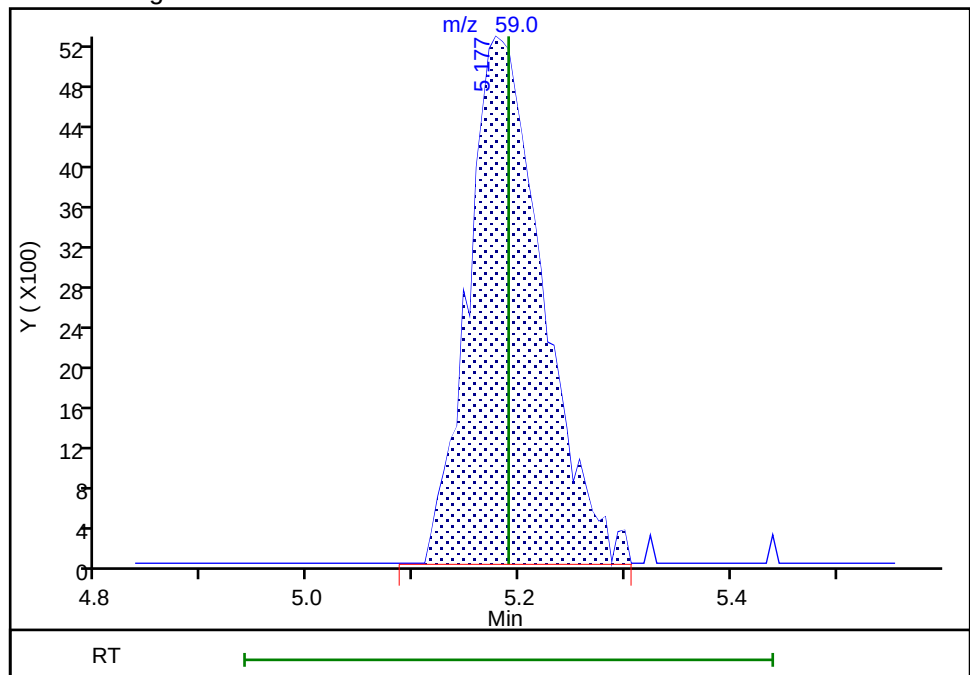
RT: 5.18
Area: 24239
Amount: 0.180785
Amount Units: ug/l

Processing Integration Results



RT: 5.18
Area: 25638
Amount: 0.189804
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:07:38 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

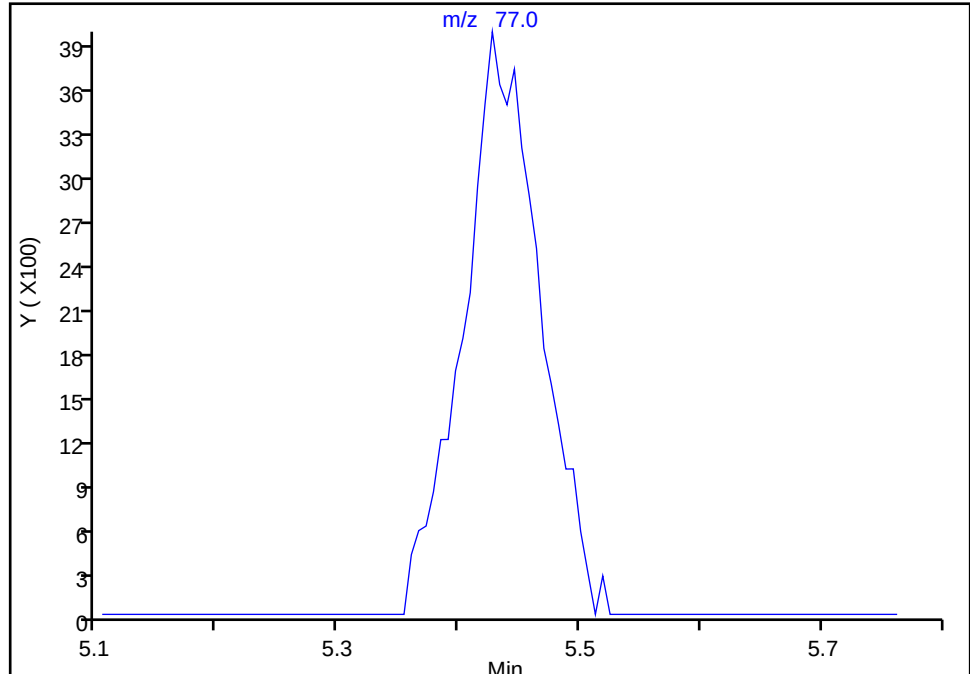
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Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

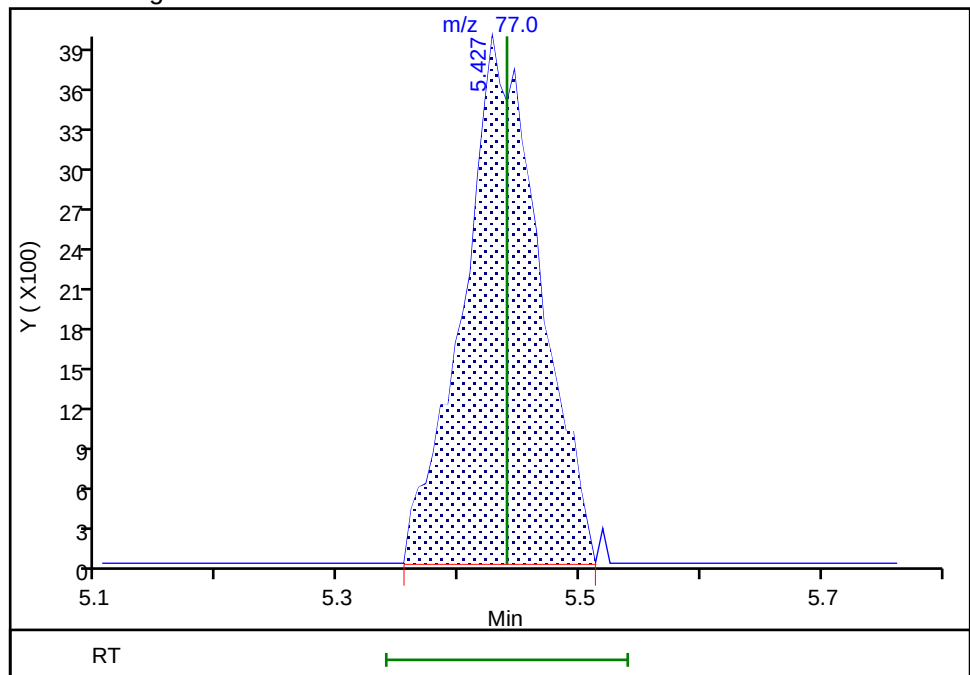
Not Detected
Expected RT: 5.44

Processing Integration Results



RT: 5.43
Area: 17224
Amount: 0.207407
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:12:05 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

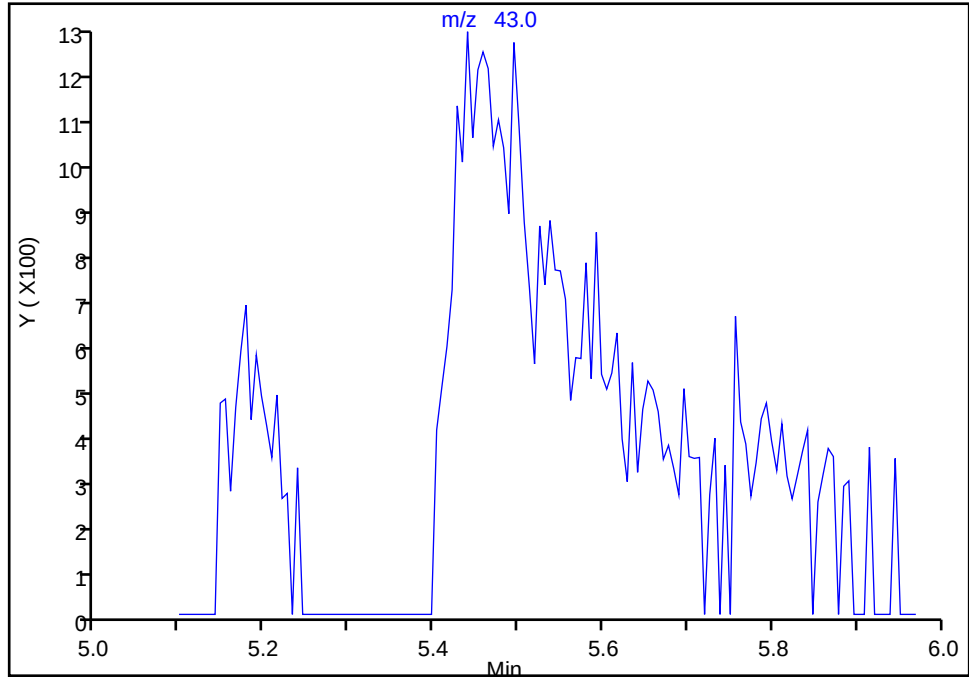
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

41 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

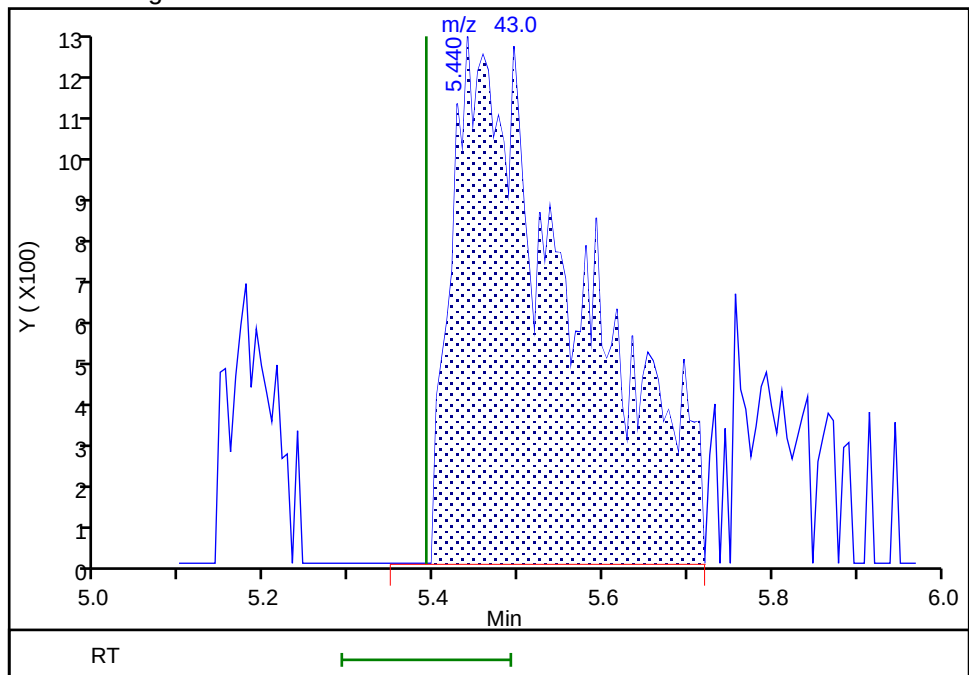
Not Detected
Expected RT: 5.39

Processing Integration Results



Manual Integration Results

RT: 5.44
Area: 13169
Amount: 1.782039
Amount Units: ug/l



Reviewer: UCB5, 08-Dec-2024 11:07:45 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

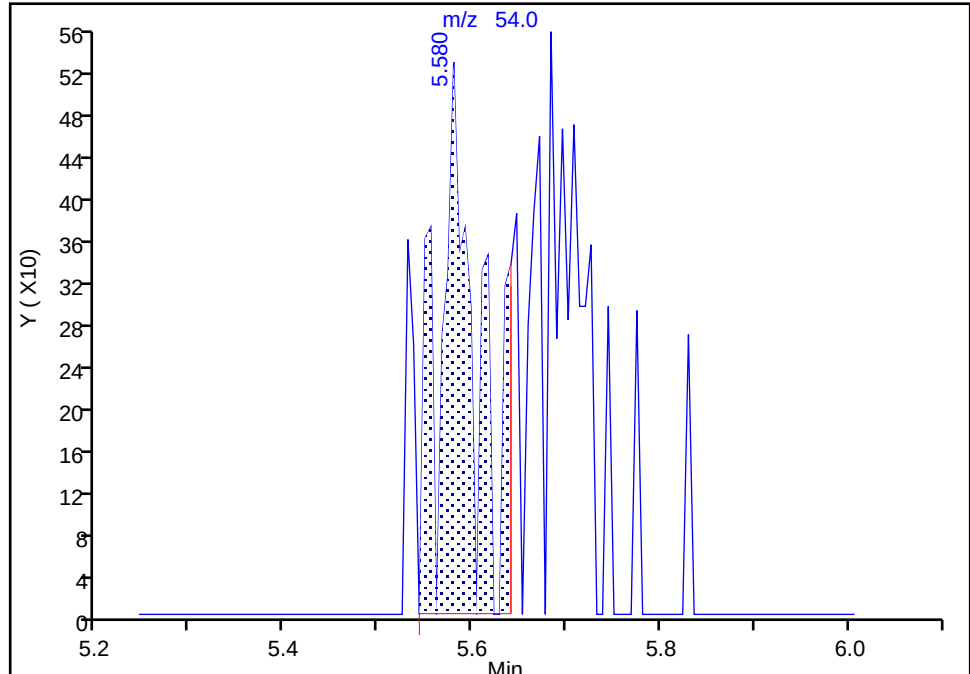
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

45 Propionitrile, CAS: 107-12-0

Signal: 1

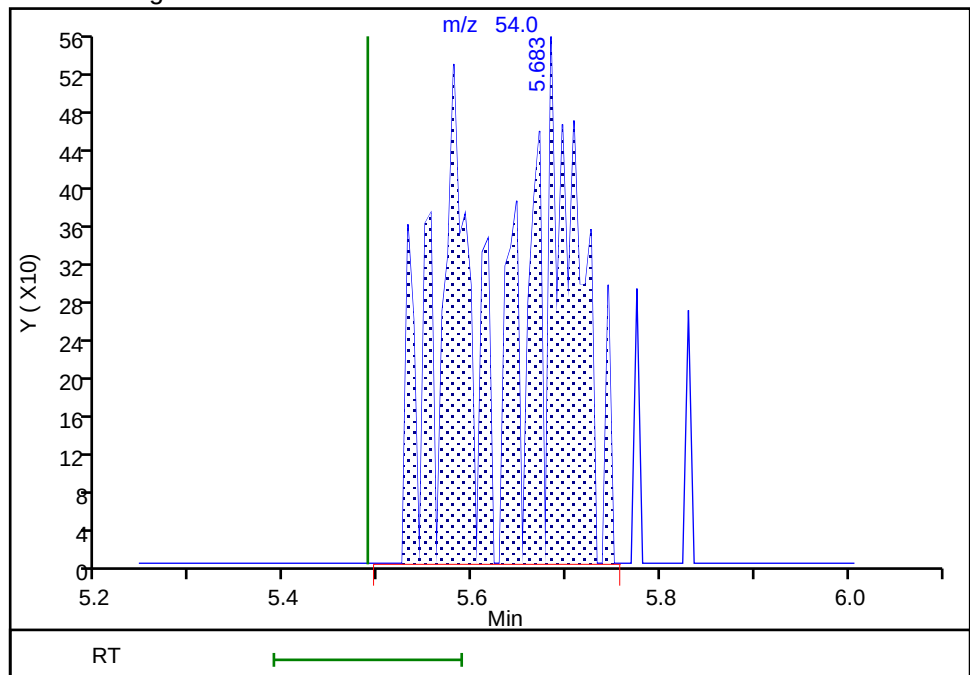
RT: 5.58
Area: 1532
Amount: 4.930111
Amount Units: ug/l

Processing Integration Results



RT: 5.68
Area: 3506
Amount: 5.851081
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:32:48 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

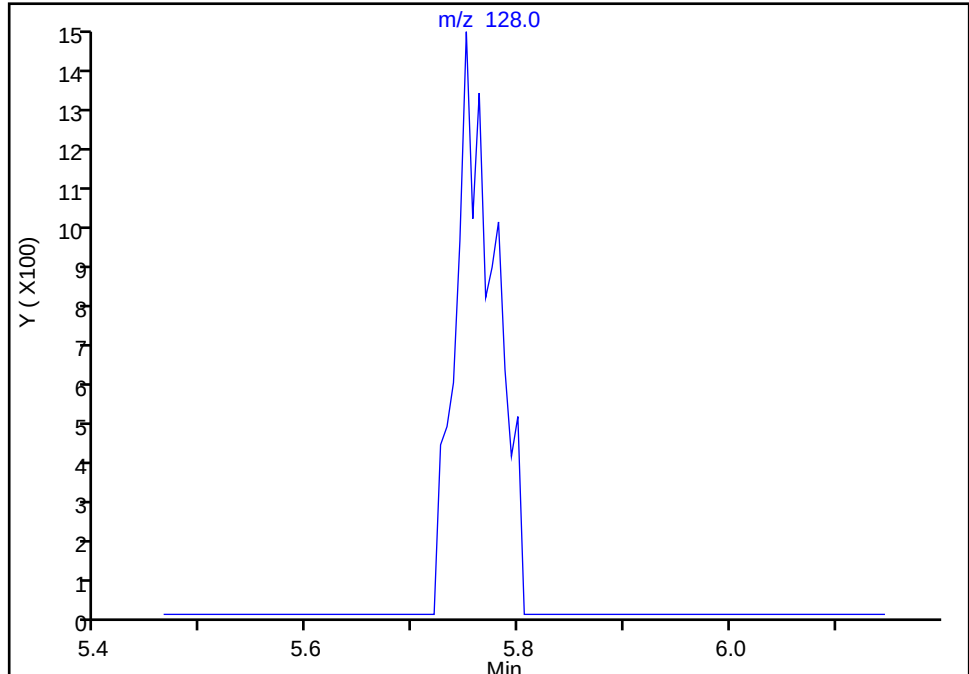
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

49 Chlorobromomethane, CAS: 74-97-5

Signal: 1

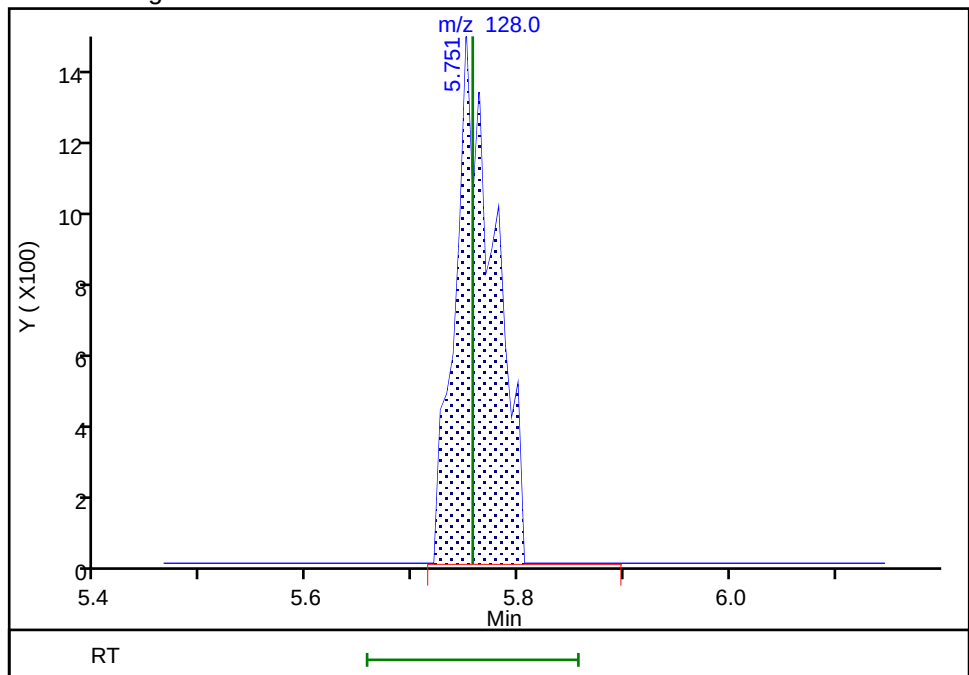
Not Detected
Expected RT: 5.76

Processing Integration Results



RT: 5.75
Area: 3786
Amount: 0.171344
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:32:52 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

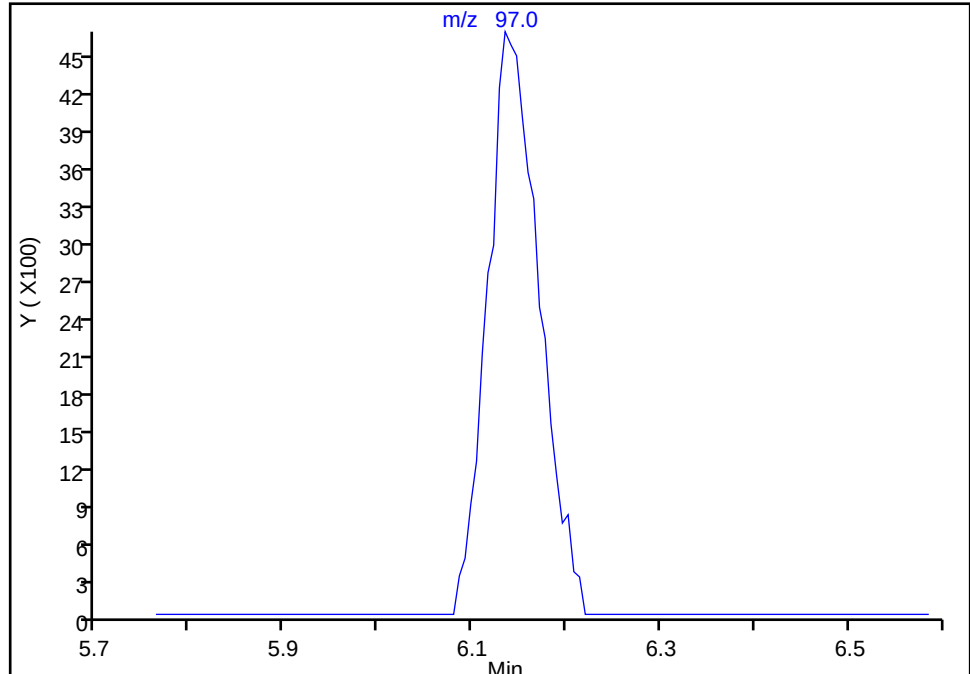
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_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

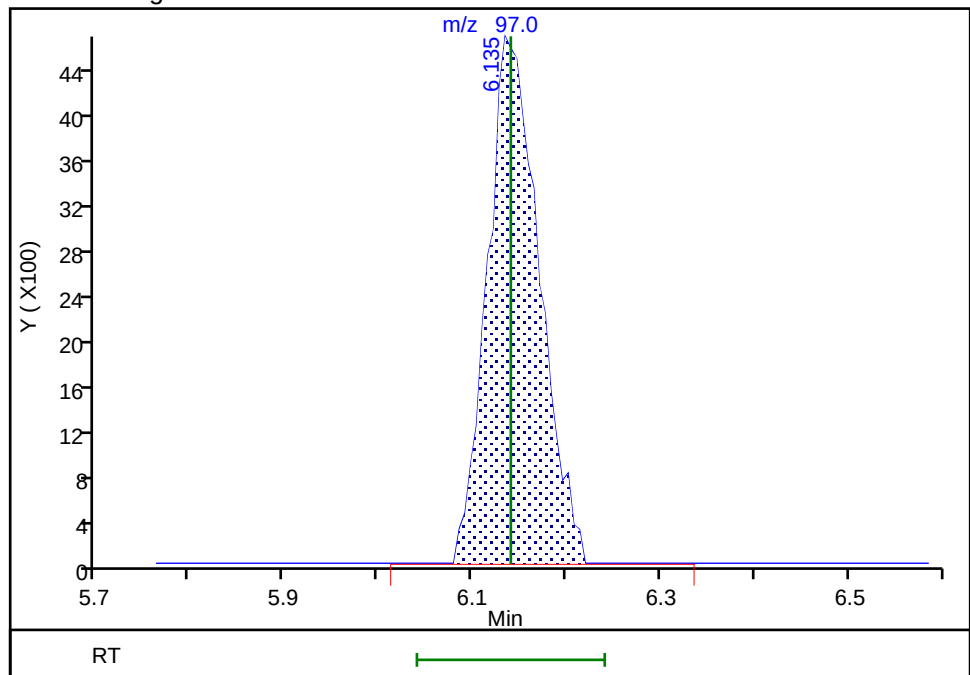
Not Detected
Expected RT: 6.14

Processing Integration Results



RT: 6.13
Area: 17857
Amount: 0.210770
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:33:02 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

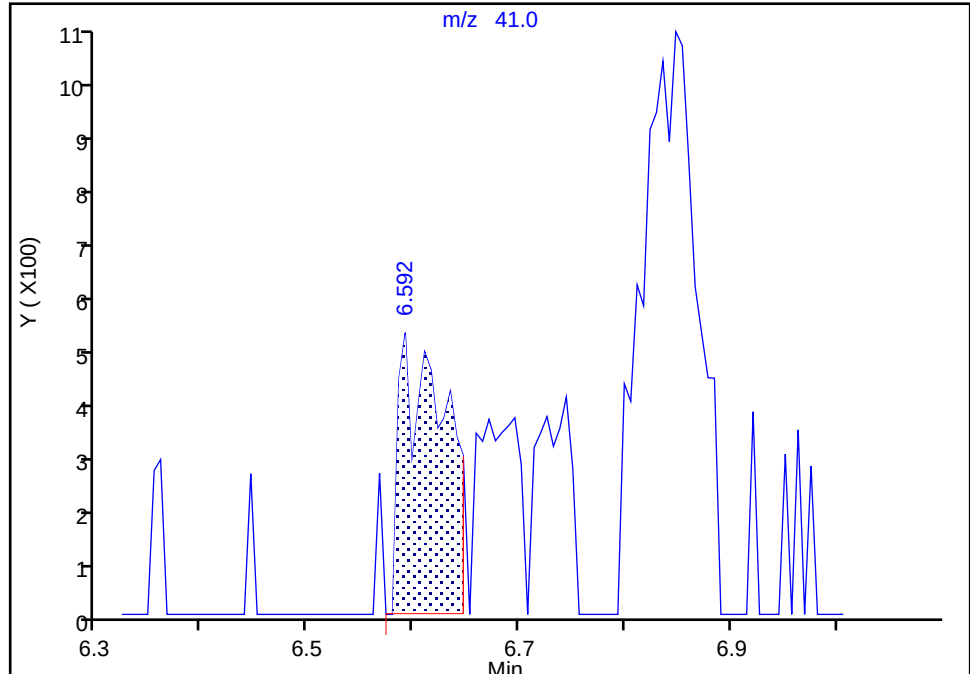
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

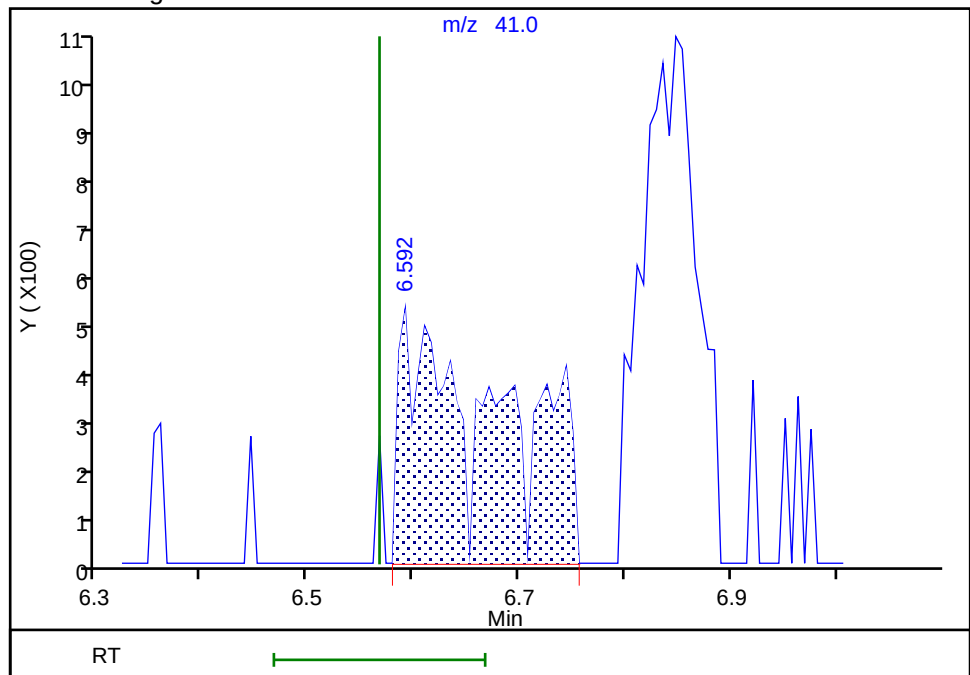
RT: 6.59
Area: 1547
Amount: 5.338186
Amount Units: ug/l

Processing Integration Results



RT: 6.59
Area: 3347
Amount: 9.073116
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:33:13 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

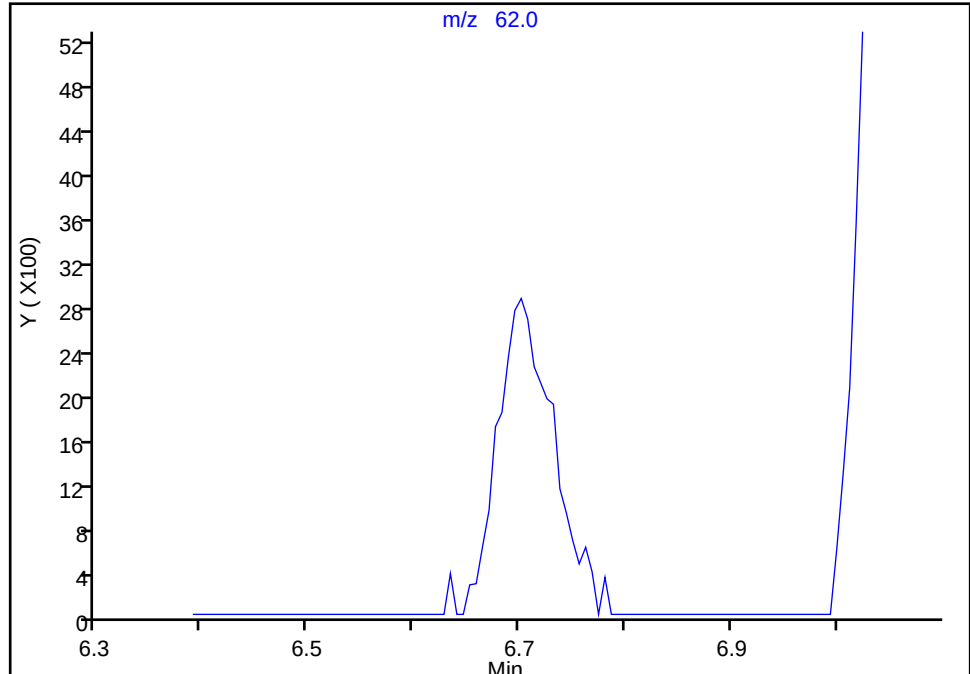
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

61 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

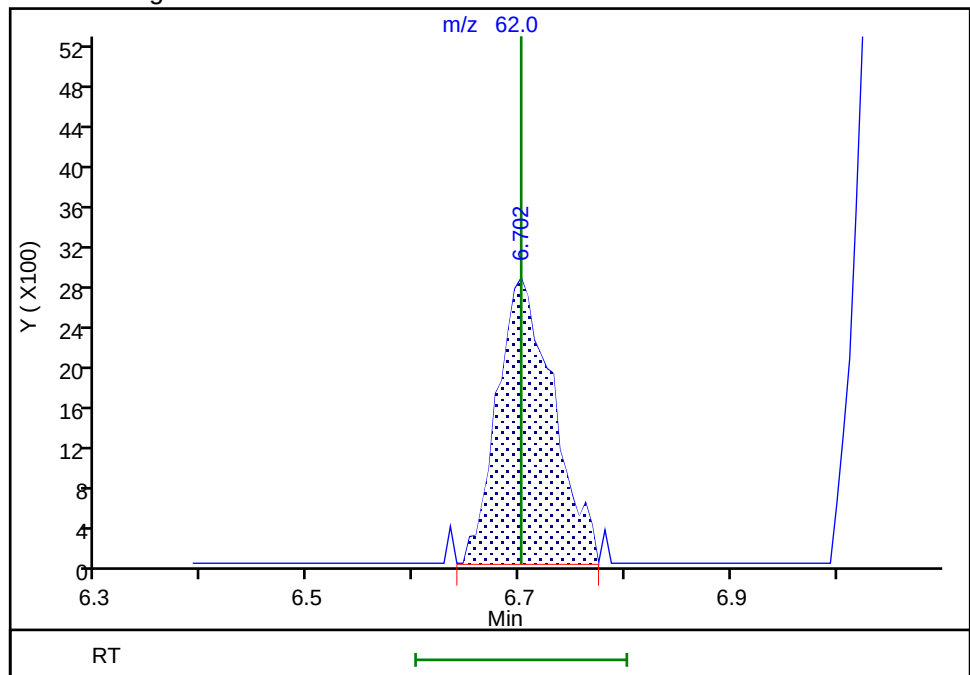
Not Detected
Expected RT: 6.70

Processing Integration Results



RT: 6.70
Area: 10485
Amount: 0.202871
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:33:28 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

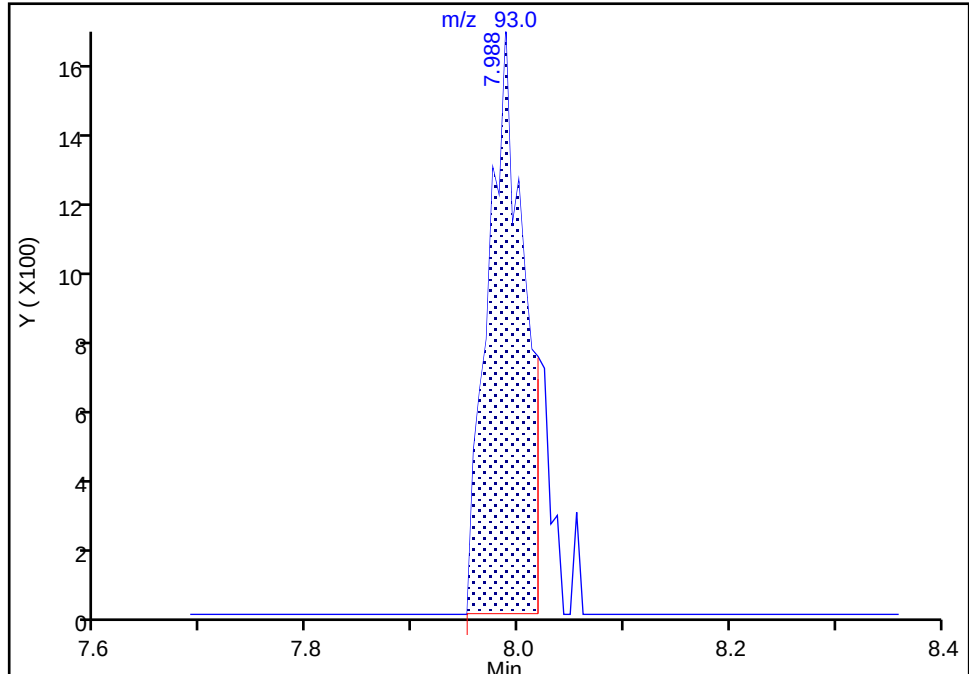
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 Dibromomethane, CAS: 74-95-3

Signal: 1

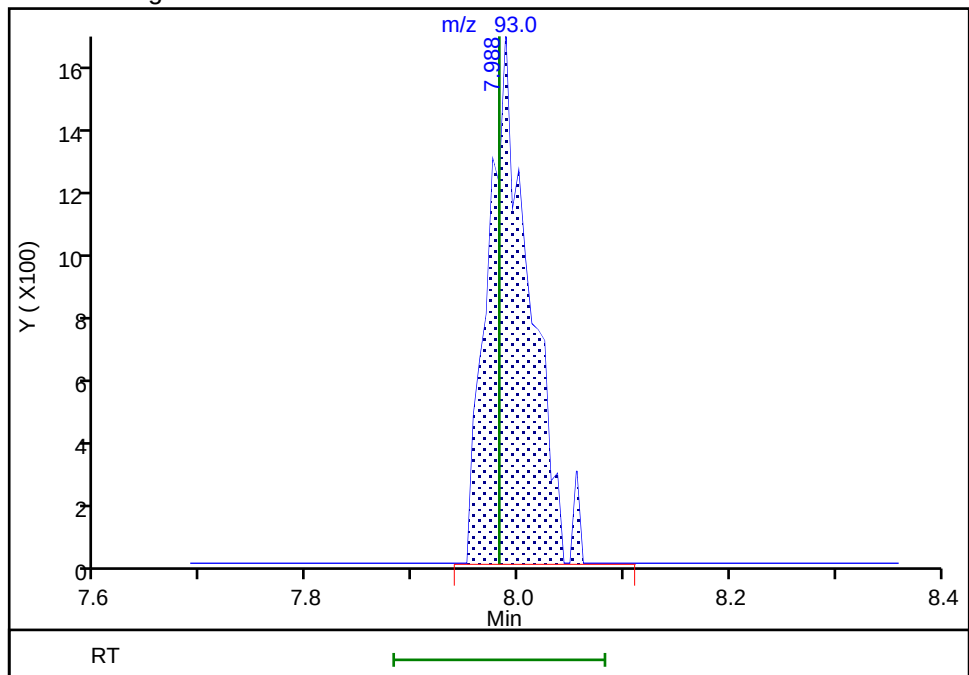
RT: 7.99
Area: 3885
Amount: 0.176599
Amount Units: ug/l

Processing Integration Results



RT: 7.99
Area: 4436
Amount: 0.198102
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:33:35 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

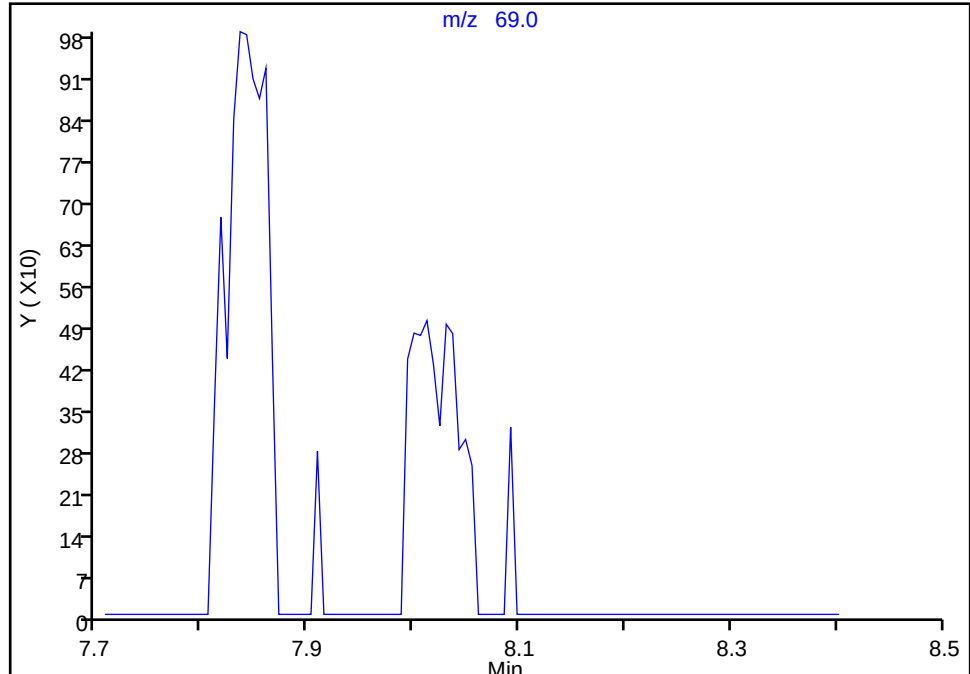
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

72 Methyl methacrylate, CAS: 80-62-6

Signal: 1

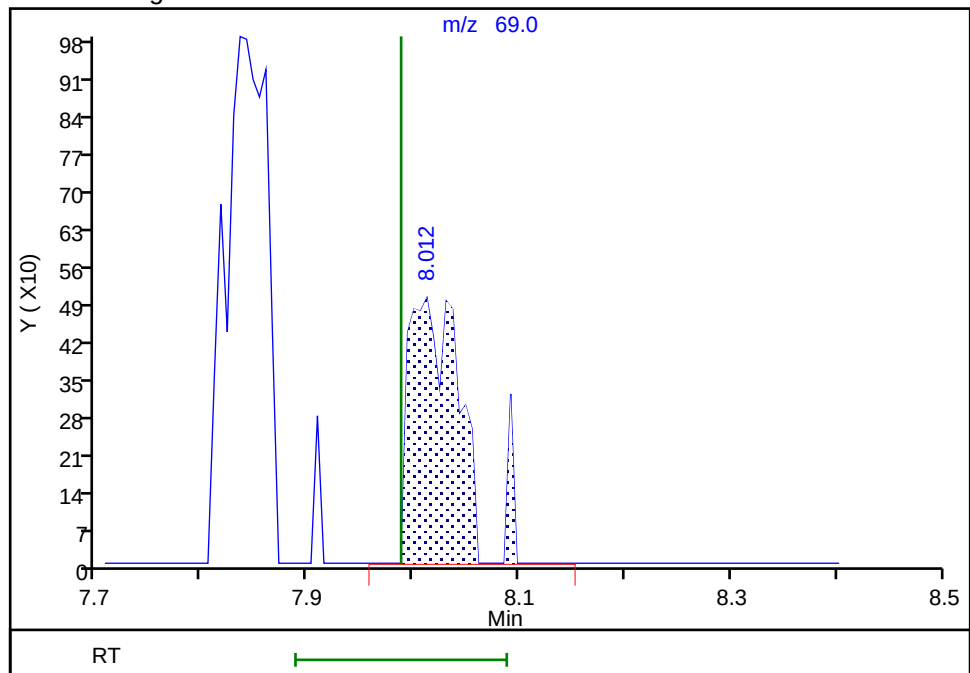
Not Detected
Expected RT: 7.99

Processing Integration Results



RT: 8.01
Area: 1730
Amount: 0.114270
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:33:38 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

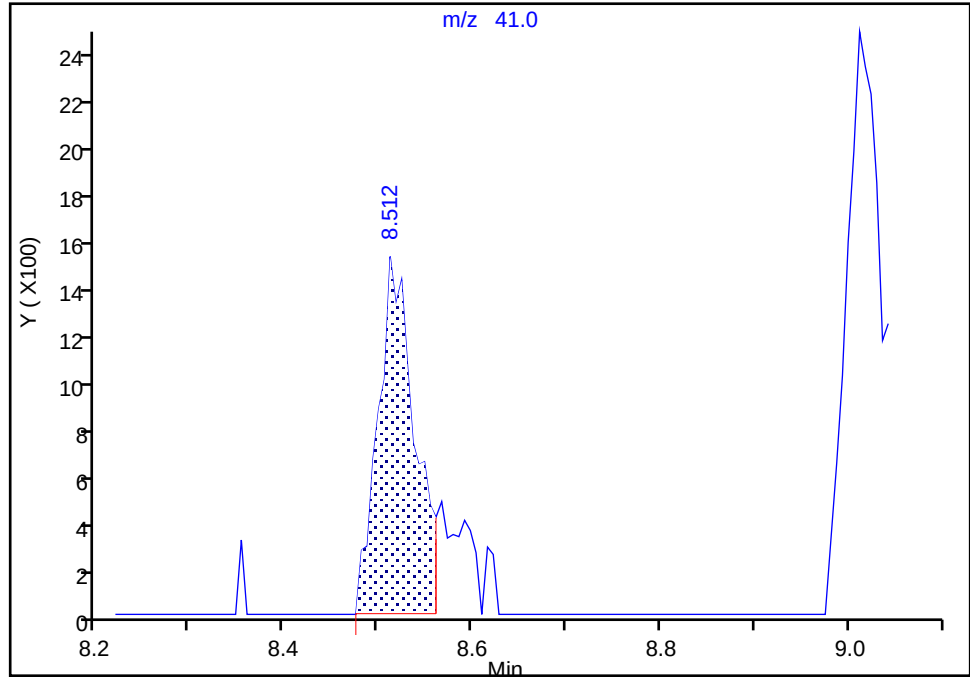
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

77 2-Nitropropane, CAS: 79-46-9

Signal: 1

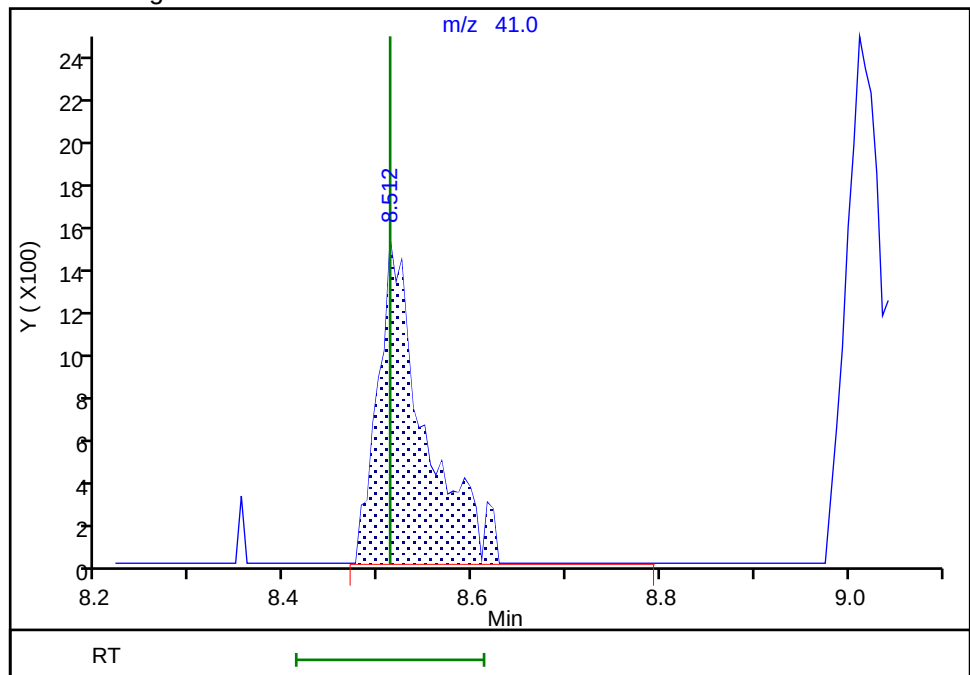
RT: 8.51
Area: 4110
Amount: 0.921454
Amount Units: ug/l

Processing Integration Results



RT: 8.51
Area: 5212
Amount: 1.128683
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:33:42 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

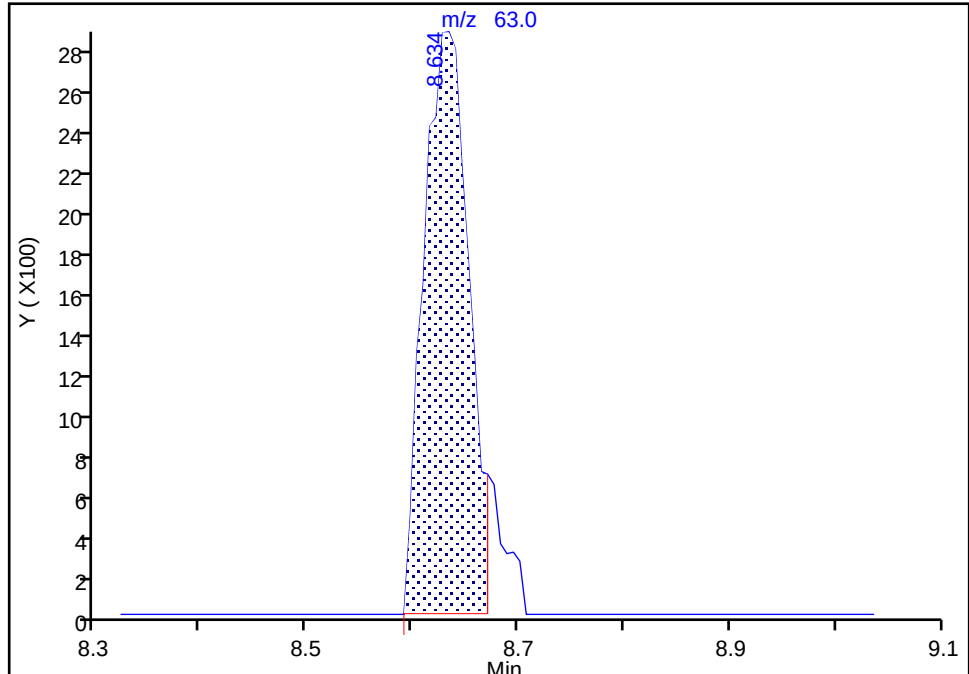
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

79 1-Bromo-2-chloroethane, CAS: 107-04-0

Signal: 1

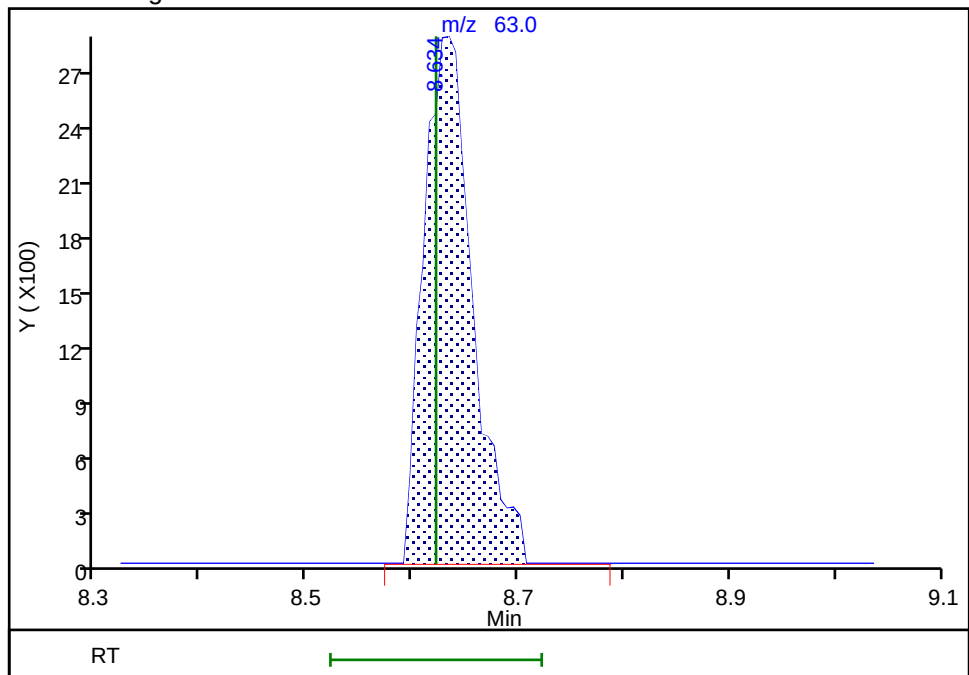
RT: 8.63
Area: 8345
Amount: 0.179647
Amount Units: ug/l

Processing Integration Results



RT: 8.63
Area: 9008
Amount: 0.191962
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:33:44 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

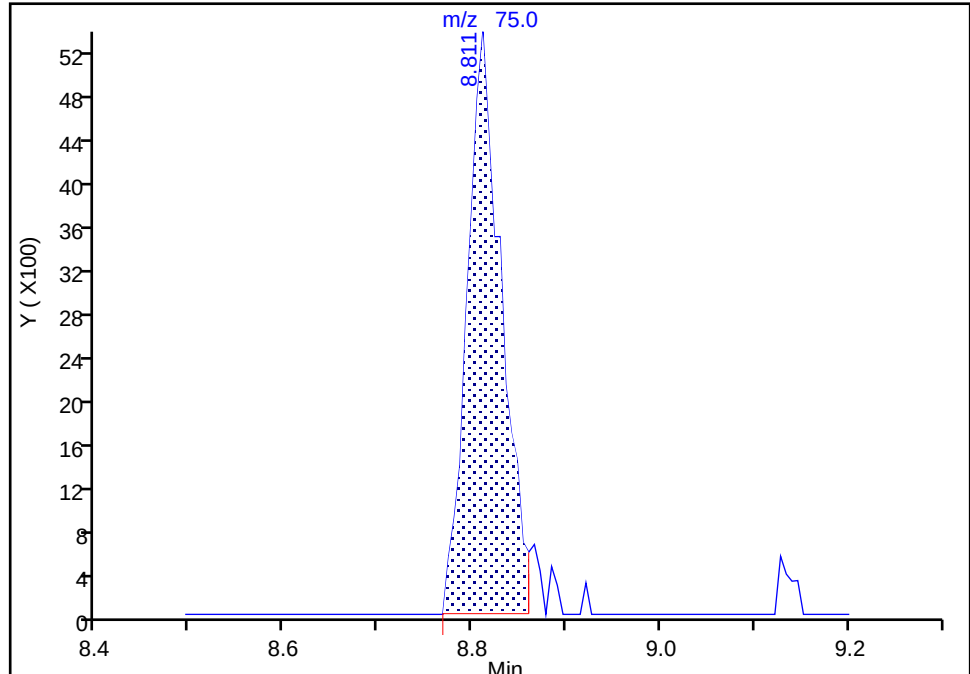
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

81 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

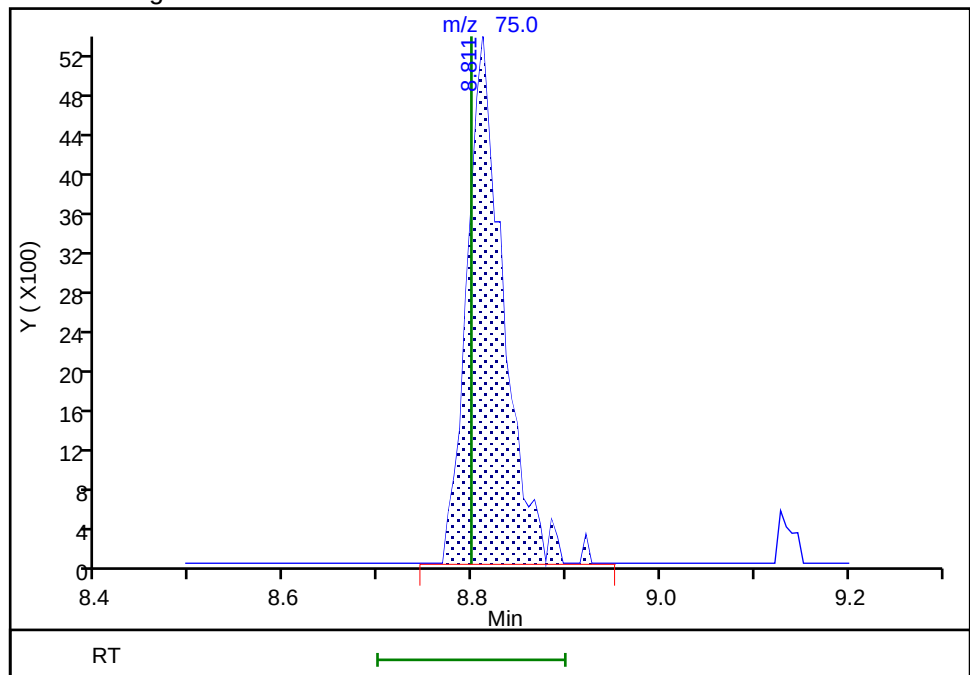
RT: 8.81
Area: 13491
Amount: 0.177092
Amount Units: ug/l

Processing Integration Results



RT: 8.81
Area: 14235
Amount: 0.185564
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:33:47 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

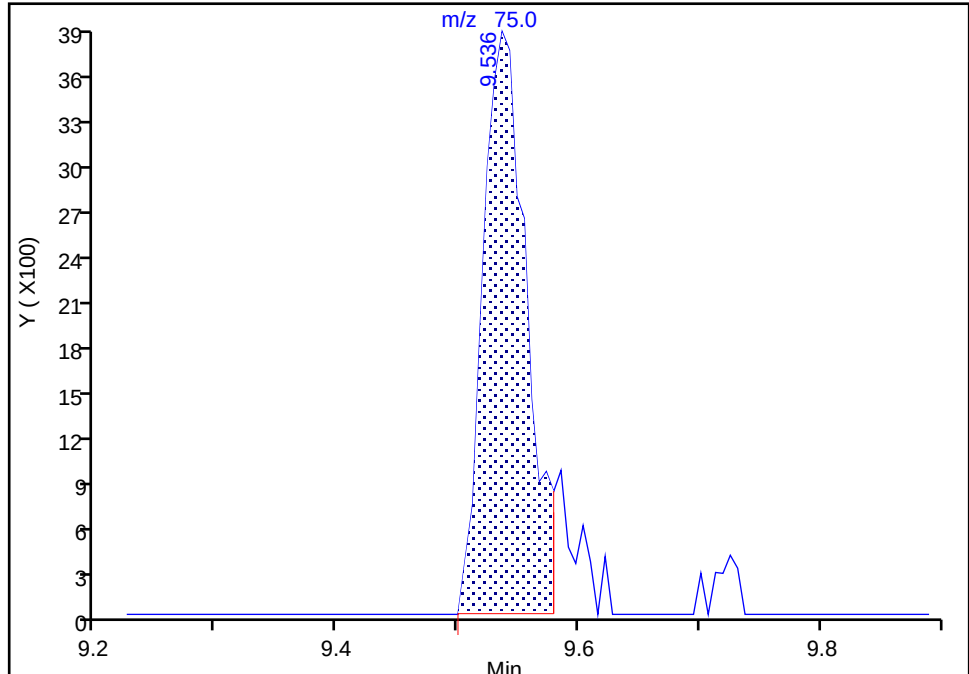
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

85 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

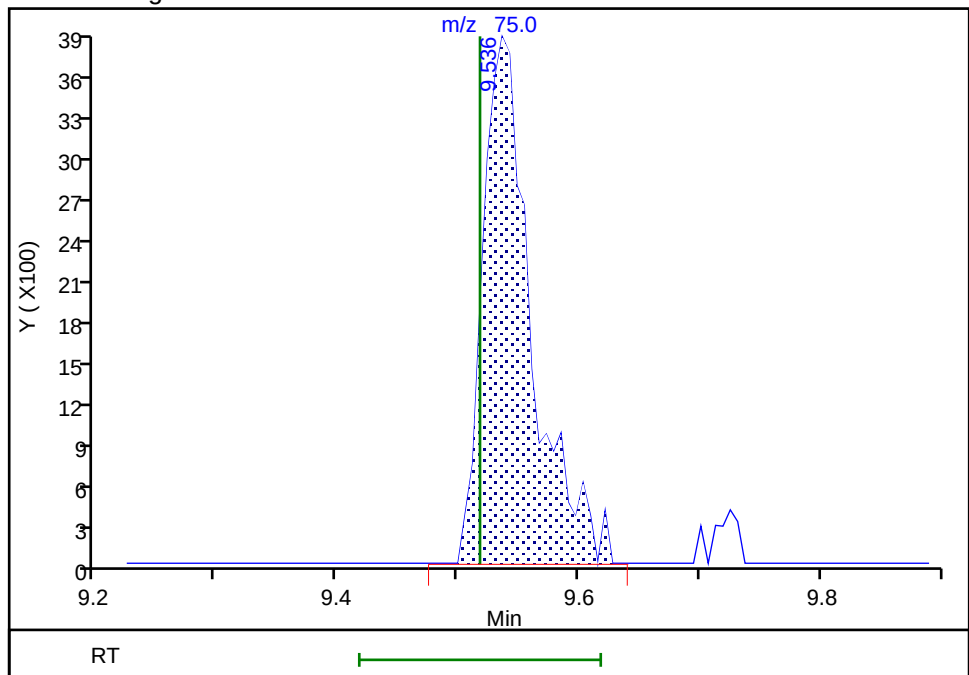
RT: 9.54
Area: 9729
Amount: 0.166815
Amount Units: ug/l

Processing Integration Results



RT: 9.54
Area: 10848
Amount: 0.183487
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:08:33 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

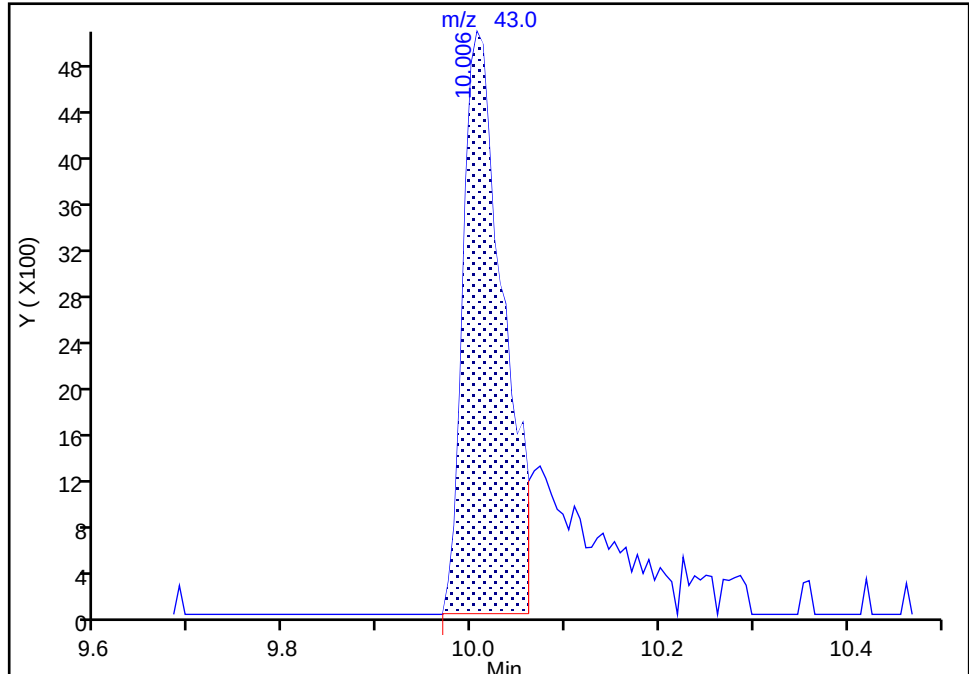
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

110 2-Hexanone, CAS: 591-78-6

Signal: 1

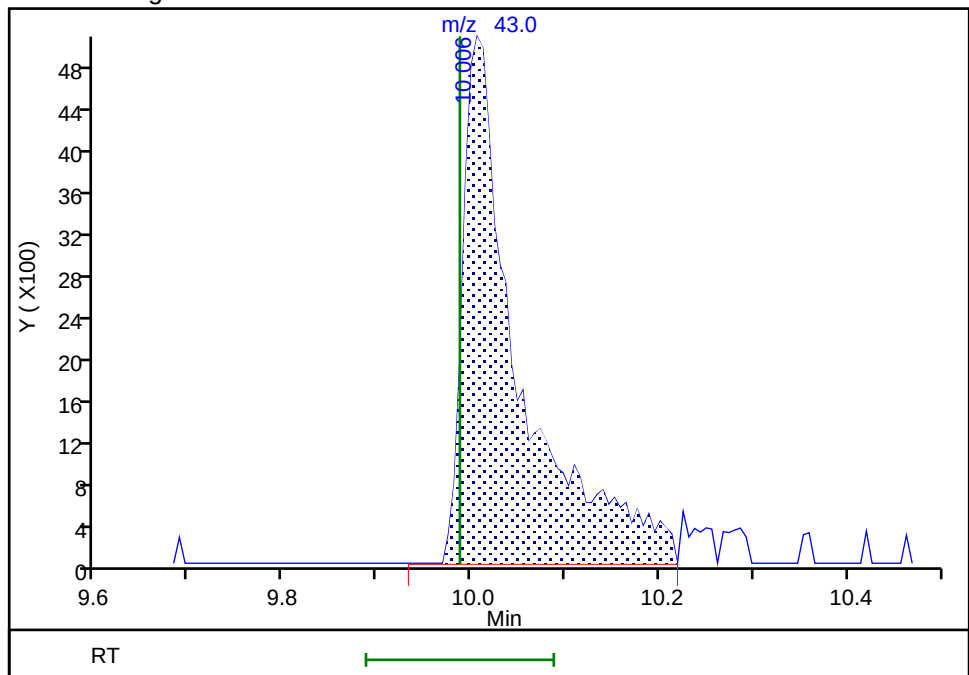
RT: 10.01
Area: 14958
Amount: 1.993668
Amount Units: ug/l

Processing Integration Results



RT: 10.01
Area: 21158
Amount: 1.593777
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:33:58 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

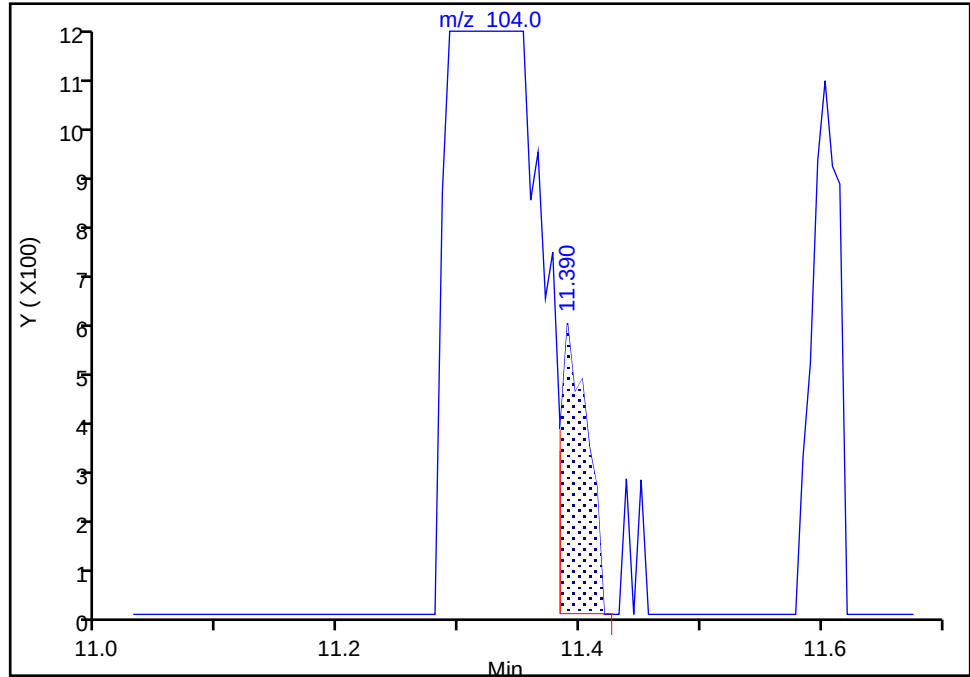
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

122 Styrene, CAS: 100-42-5

Signal: 1

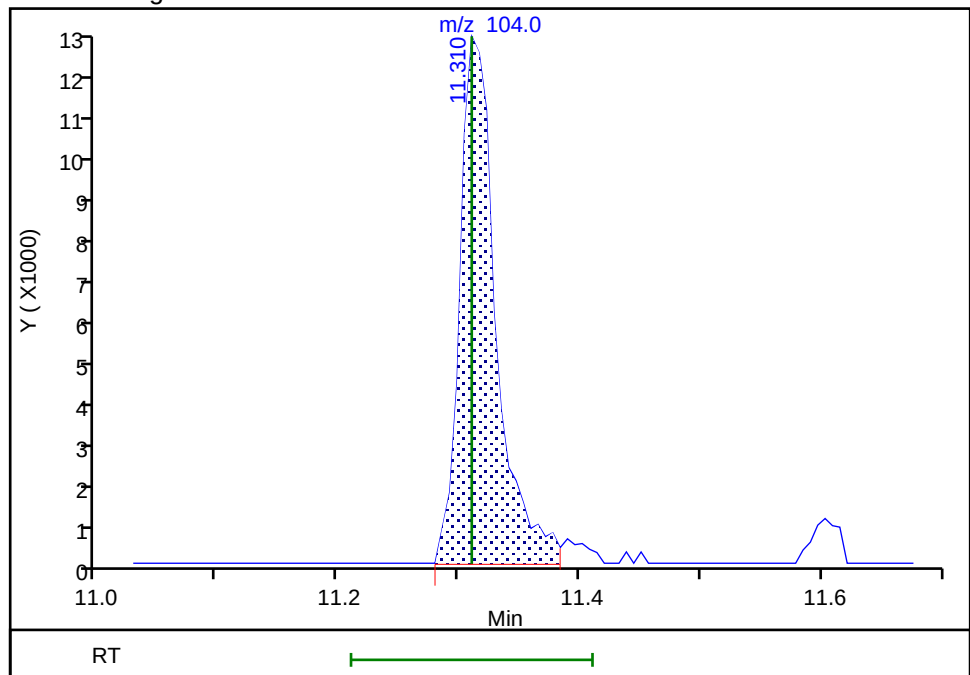
RT: 11.39
Area: 888
Amount: 0.230153
Amount Units: ug/l

Processing Integration Results



RT: 11.31
Area: 25866
Amount: 0.167989
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:34:09 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

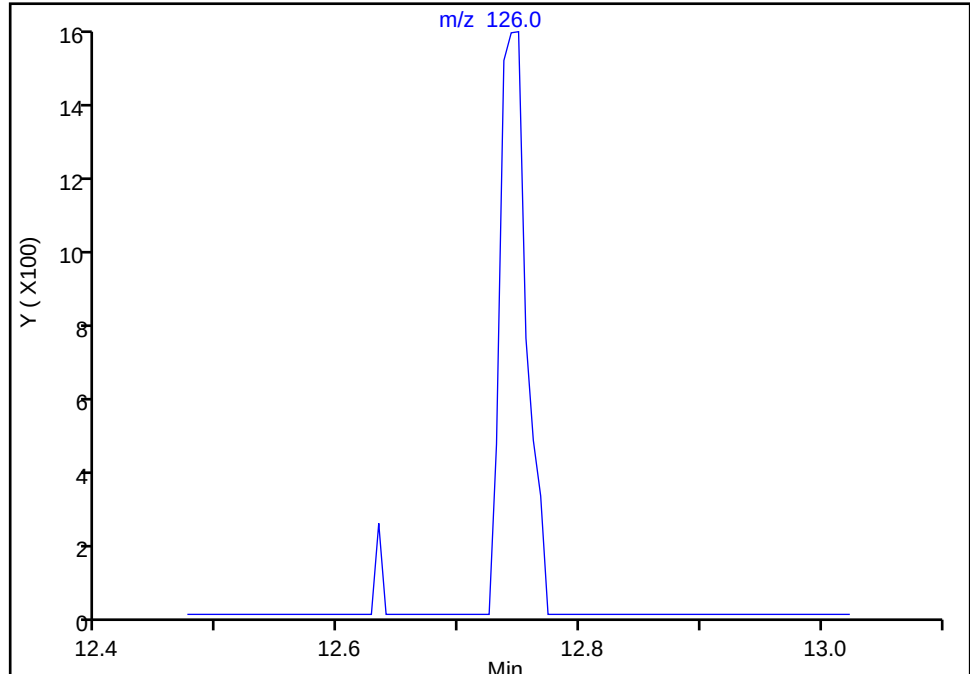
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) MS Quad

145 Benzyl chloride, CAS: 100-44-7

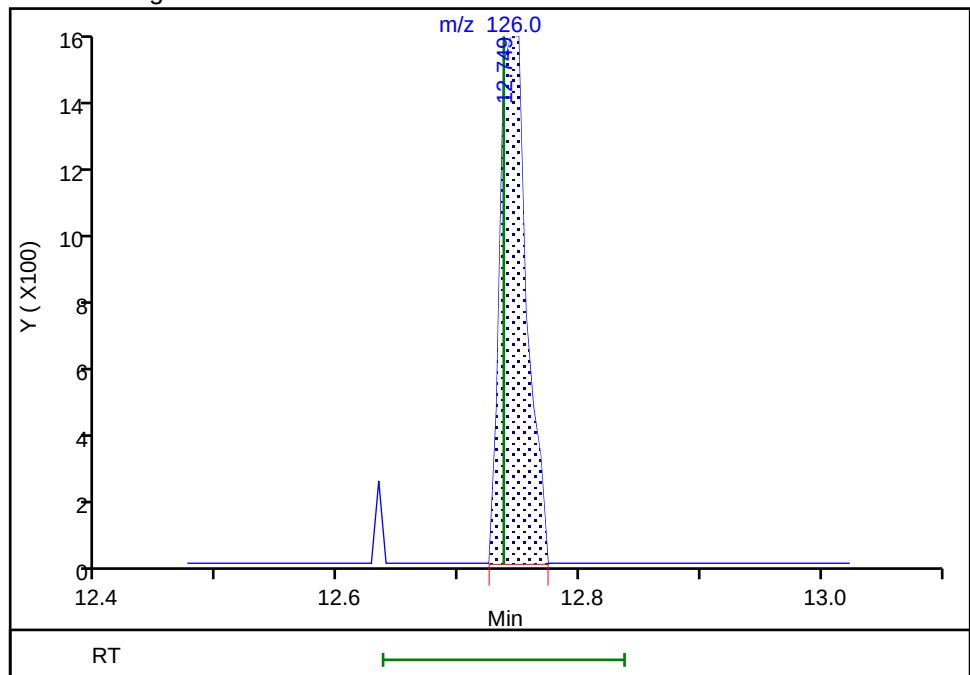
Signal: 1

Not Detected
Expected RT: 12.74

Processing Integration Results



Manual Integration Results



RT: 12.75
Area: 2467
Amount: 0.166781
Amount Units: ug/l

Reviewer: DVW2, 04-Dec-2024 08:11:59 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

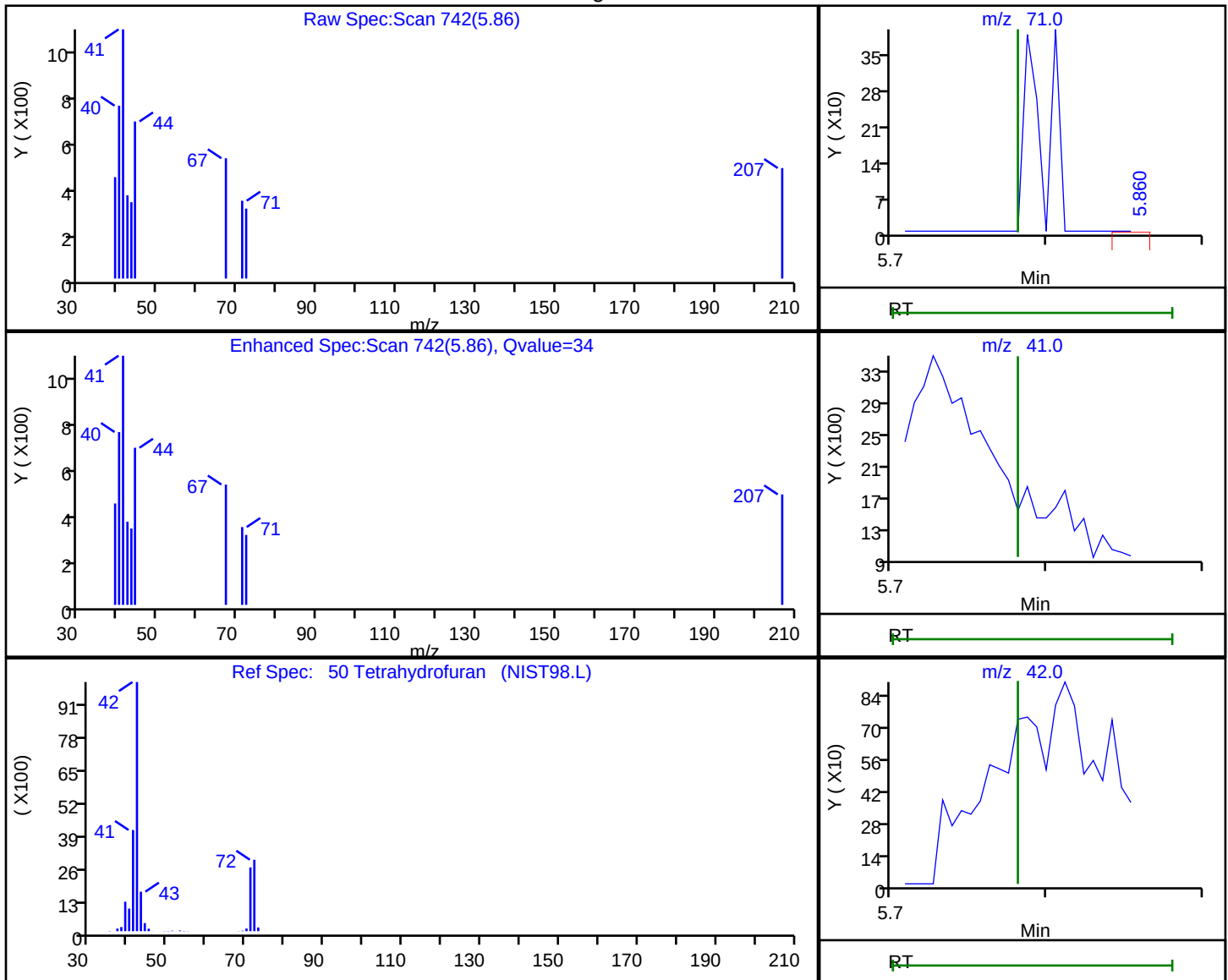
Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X12.D
Injection Date: 03-Dec-2024 16:05:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) MS Quad

50 Tetrahydrofuran, CAS: 109-99-9

Processing Results



RT	Mass	Response	Amount
5.86	71.00	116	0.880600
5.77	41.00	0	
5.77	42.00	0	
5.87	72.00	298	

Reviewer: DVW2, 04-Dec-2024 08:32:57 -05:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X13.D
 Lims ID: IC std2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 03-Dec-2024 16:27:30 ALS Bottle#: 3 Worklist Smp#: 14
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0132221-014
 Misc. Info.: IC STD2
 Operator ID: knk41612 Instrument ID: 16334
 Sublist: chrom-MSV_16334_25mL*sub4
 Method: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Dec-2024 09:42:05 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1610

First Level Reviewer: UCB5

Date: 08-Dec-2024 11:14:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.697	1.709	-0.012	30	32431	0.5000	0.4856	
5 Chloromethane	50	1.873	1.879	-0.006	99	39055	0.5000	0.4875	
7 Butadiene	39	1.959	1.965	-0.006	93	34675	0.5000	0.4702	
6 Vinyl chloride	62	1.971	1.977	-0.006	98	36180	0.5000	0.4987	
9 Bromomethane	94	2.264	2.269	-0.005	92	23157	0.5000	0.4907	M
10 Chloroethane	64	2.300	2.306	-0.006	99	18917	0.5000	0.5162	
11 Dichlorofluoromethane	67	2.501	2.507	-0.006	97	49488	0.5000	0.4820	
12 Trichlorofluoromethane	101	2.593	2.599	-0.006	68	38812	0.5000	0.4829	
13 Ethyl ether	59	2.763	2.763	0.000	91	14741	0.5000	0.5007	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.824	2.843	-0.018	92	29901	0.5000	0.4934	
17 Acrolein	56	2.916	2.910	0.006	98	59455	24.4	18.8	M
18 1,1-Dichloroethene	96	3.026	3.025	0.001	98	22996	0.5000	0.4885	
19 Acetone	43	3.062	3.062	0.000	51	20595	5.00	4.59	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.056	3.068	-0.012	94	22226	0.5000	0.4486	
21 Isopropyl alcohol	45	3.190	3.178	0.012	26	3752	10.0	7.06	M
22 Iodomethane	142	3.184	3.190	-0.006	99	43316	0.5000	0.4756	
23 Ethyl bromide	108	3.215	3.214	0.001	98	19840	0.5008	0.4784	
24 Carbon disulfide	76	3.276	3.275	0.001	99	82977	0.5000	0.4808	
25 Methyl acetate	43	3.428	3.409	0.019	20	8602	0.5000	0.4544	M
27 3-Chloro-1-propene	41	3.416	3.422	-0.006	92	39472	0.5000	0.4825	
29 Methylene Chloride	84	3.574	3.580	-0.006	93	25172	0.5000	0.4835	
* 30 t-Butyl alcohol-d10 (IS)	65	3.599	3.629	-0.030	97	78234	50.0	50.0	M
31 2-Methyl-2-propanol	59	3.739	3.720	0.019	6	10010	10.0	10.9	M
32 Acrylonitrile	53	3.934	3.879	0.055	22	3038	1.25	0.4941	
33 Methyl tert-butyl ether	73	3.922	3.928	-0.006	93	48150	0.5000	0.4584	
34 trans-1,2-Dichloroethene	96	3.934	3.934	0.000	99	25653	0.5000	0.4638	M
35 Hexane	57	4.324	4.330	-0.006	91	30625	0.5000	0.4237	
37 1,1-Dichloroethane	63	4.562	4.562	0.000	96	47051	0.5000	0.4694	
38 Isopropyl ether	45	4.629	4.635	-0.006	93	71483	0.5000	0.4536	
39 2-Chloro-1,3-butadiene	53	4.678	4.678	0.000	92	33879	0.5000	0.4415	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.178	5.190	-0.012	97	61634	0.5000	0.4440	
41 2-Butanone (MEK)	43	5.421	5.391	0.030	44	35756	5.00	4.65	M
42 cis-1,2-Dichloroethene	96	5.421	5.421	0.000	82	28366	0.5000	0.4687	
43 2,2-Dichloropropane	77	5.421	5.440	-0.019	80	40782	0.5000	0.4779	a
45 Propionitrile	54	5.550	5.488	0.062	31	14274	10.0	10.4	M
48 Methacrylonitrile	67	5.708	5.702	0.006	93	31893	5.00	3.84	
49 Chlorobromomethane	128	5.757	5.757	0.000	93	10093	0.5000	0.4445	
50 Tetrahydrofuran	71	5.793	5.781	0.012	47	3807	2.50	1.73	
51 Chloroform	83	5.915	5.921	-0.006	93	45184	0.5000	0.4595	
53 1,1,1-Trichloroethane	97	6.135	6.141	-0.006	39	40514	0.5000	0.4654	
\$ 52 Dibromofluoromethane (Surr)	113	6.141	6.141	0.000	93	487081	10.0	9.89	
S 47 1,2-Dichloroethene, Total	100				0			0.9325	
54 Cyclohexane	56	6.232	6.244	-0.012	91	39567	0.5000	0.4558	
55 Carbon tetrachloride	117	6.354	6.360	-0.006	89	33806	0.5000	0.4540	
56 1,1-Dichloropropene	75	6.360	6.366	-0.006	94	34770	0.5000	0.4477	
58 Isobutyl alcohol	41	6.598	6.567	0.031	31	9213	25.0	24.3	M
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.592	6.592	0.000	67	94299	10.0	10.0	
60 Benzene	78	6.629	6.628	0.001	94	109204	0.5000	0.4713	
61 1,2-Dichloroethane	62	6.702	6.702	0.000	94	25647	0.5000	0.4829	
63 Tert-amyl methyl ether	73	6.836	6.842	-0.006	99	51702	0.5000	0.4490	
* 64 Fluorobenzene (IS)	96	7.043	7.049	-0.006	99	2087335	10.0	10.0	
65 n-Heptane	43	7.067	7.073	-0.006	92	29248	0.5000	0.4119	
67 n-Butanol	56	7.622	7.482	0.140	39	5401	43.8	53.6	M
68 Trichloroethene	95	7.537	7.537	0.000	98	27681	0.5000	0.4649	
69 Methylcyclohexane	83	7.842	7.842	0.000	87	38844	0.5000	0.4266	
70 1,2-Dichloropropane	63	7.872	7.872	0.000	96	26241	0.5000	0.4678	
71 2-ethoxy-2-methyl butane	87	7.903	7.909	-0.006	92	35564	0.5000	0.4400	
73 1,4-Dioxane	88	8.019	7.976	0.043	28	517	25.0	5.17	M
74 Dibromomethane	93	7.988	7.982	0.006	92	10767	0.5000	0.4679	
72 Methyl methacrylate	69	8.000	7.988	0.012	58	6469	0.5000	0.4105	M
76 Dichlorobromomethane	83	8.232	8.232	0.000	99	29324	0.5000	0.4563	
77 2-Nitropropane	41	8.512	8.512	0.000	98	12747	2.50	2.65	M
79 1-Bromo-2-chloroethane	63	8.622	8.622	0.000	97	21205	0.5000	0.4398	
81 cis-1,3-Dichloropropene	75	8.811	8.799	0.012	96	33579	0.5000	0.4260	
82 4-Methyl-2-pentanone (MIBK)	43	9.012	9.006	0.006	96	83982	5.00	4.22	
\$ 83 Toluene-d8 (Surr)	98	9.134	9.140	-0.006	93	2095290	10.0	10.0	
84 Toluene	92	9.220	9.225	-0.005	97	66999	0.5000	0.4617	
85 trans-1,3-Dichloropropene	75	9.530	9.518	0.012	92	26993	0.5000	0.4445	
86 Ethyl methacrylate	69	9.616	9.609	0.007	89	13550	0.5000	0.3697	
107 1,1,2-Trichloroethane	97	9.738	9.737	0.001	91	15734	0.5000	0.4694	
108 Tetrachloroethene	166	9.823	9.823	0.000	96	31355	0.5000	0.4788	
109 1,3-Dichloropropane	76	9.915	9.908	0.006	88	27194	0.5000	0.4694	
110 2-Hexanone	43	10.000	9.987	0.013	98	61580	5.00	4.46	M
S 106 1,3-Dichloropropene, Total	100				0			0.8705	
112 Chlorodibromomethane	129	10.134	10.134	0.000	91	17725	0.5000	0.4333	
113 Ethylene Dibromide	107	10.250	10.243	0.007	99	13173	0.5000	0.4418	M
* 114 Chlorobenzene-d5 (IS)	117	10.707	10.707	0.000	86	1505979	10.0	10.0	
116 Chlorobenzene	112	10.731	10.731	0.000	94	76639	0.5000	0.4703	
115 1-Chlorohexane	91	10.731	10.731	0.000	64	36668	0.5000	0.4692	
117 1,1,1,2-Tetrachloroethane	131	10.823	10.823	0.000	94	23897	0.5000	0.4519	
118 Ethylbenzene	91	10.829	10.829	0.000	98	130075	0.5000	0.4608	
120 m-Xylene & p-Xylene	106	10.957	10.951	0.006	100	100193	1.00	0.9201	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 119 Xylenes, Total	106				0			1.36	
121 o-Xylene	106	11.292	11.292	0.000	97	45815	0.5000	0.4407	
122 Styrene	104	11.311	11.310	0.001	94	66061	0.5000	0.4177	
123 Bromoform	173	11.457	11.463	-0.006	93	8988	0.5000	0.4252	
124 Isopropylbenzene	105	11.603	11.603	0.000	96	108769	0.5000	0.4455	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.743	11.743	0.000	89	721740	10.0	10.0	
128 1,1,2,2-Tetrachloroethane	83	11.859	11.859	0.000	65	17384	0.5000	0.4576	
129 Bromobenzene	156	11.859	11.859	0.000	91	28577	0.5000	0.4486	
130 trans-1,4-Dichloro-2-butene	53	11.890	11.883	0.007	89	37740	5.00	4.45	
131 1,2,3-Trichloropropane	110	11.902	11.902	0.000	78	4576	0.5000	0.4518	
132 N-Propylbenzene	91	11.938	11.938	0.000	99	154097	0.5000	0.4502	
133 2-Chlorotoluene	126	12.012	12.011	0.001	96	30771	0.5000	0.4524	
134 1,3,5-Trimethylbenzene	105	12.085	12.085	0.000	94	105046	0.5000	0.4353	
135 4-Chlorotoluene	126	12.109	12.103	0.006	98	32244	0.5000	0.4584	
136 tert-Butylbenzene	134	12.323	12.322	0.001	93	23614	0.5000	0.4510	
137 Pentachloroethane	167	12.353	12.353	0.000	81	15209	0.5000	0.4247	
138 1,2,4-Trimethylbenzene	105	12.371	12.365	0.006	97	110687	0.5000	0.4480	
139 sec-Butylbenzene	105	12.493	12.487	0.006	94	140716	0.5000	0.4499	
140 1,3-Dichlorobenzene	146	12.585	12.585	0.001	98	63594	0.5000	0.4691	
141 4-Isopropyltoluene	119	12.603	12.603	0.000	97	116802	0.5000	0.4375	
* 142 1,4-Dichlorobenzene-d4	152	12.640	12.639	0.001	95	819154	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.658	12.658	0.000	95	64119	0.5000	0.4628	
144 1,2,3-Trimethylbenzene	120	12.670	12.676	-0.006	98	47855	0.5000	0.4530	
145 Benzyl chloride	126	12.737	12.737	0.000	99	6281	0.5000	0.4081	a
146 p-Diethylbenzene	119	12.877	12.877	0.000	92	73287	0.5000	0.4444	
147 n-Butylbenzene	92	12.896	12.895	0.001	98	61510	0.5000	0.4490	
148 1,2-Dichlorobenzene	146	12.920	12.920	0.000	98	55066	0.5000	0.4680	
150 1,2-Dibromo-3-Chloropropane	155	13.469	13.462	0.007	82	1906	0.5000	0.4538	
151 1,3,5-Trichlorobenzene	180	13.591	13.590	0.001	97	48242	0.5000	0.4526	
152 1,2,4-Trichlorobenzene	180	14.017	14.011	0.006	93	39264	0.5000	0.4620	
153 Hexachlorobutadiene	225	14.103	14.103	0.001	95	22092	0.5000	0.4762	
154 Naphthalene	128	14.194	14.188	0.006	97	47796	0.5000	0.4227	
155 1,2,3-Trichlorobenzene	180	14.334	14.334	0.000	96	28726	0.5000	0.4339	
156 2-Methylnaphthalene	142	14.926	14.919	0.007	92	20387	0.5000	0.4762	
167 Pentane	43	2.763	2.769	-0.006	38	2910	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00155	Amount Added: 2.00	Units: uL	
MSV_LL_#2_826_00163	Amount Added: 2.00	Units: uL	
MSV_LL_GAS826_00247	Amount Added: 2.00	Units: uL	
MSV_29_826ISS_00057	Amount Added: 1.20	Units: uL	Run Reagent

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X13.D

Injection Date: 03-Dec-2024 16:27:30

Instrument ID: 16334

Operator ID: knk41612

Lims ID: IC std2

Worklist Smp#: 14

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

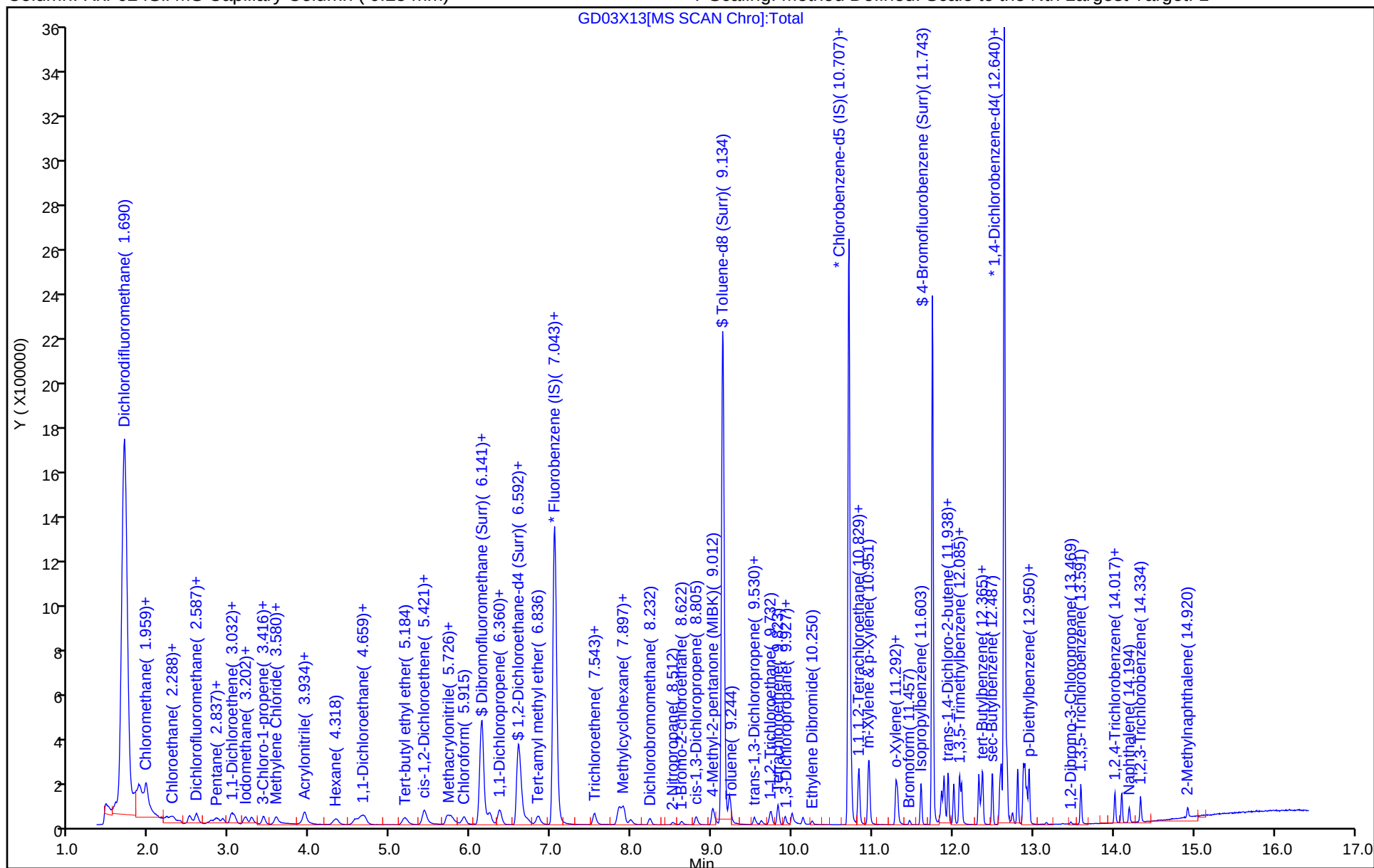
ALS Bottle#: 3

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

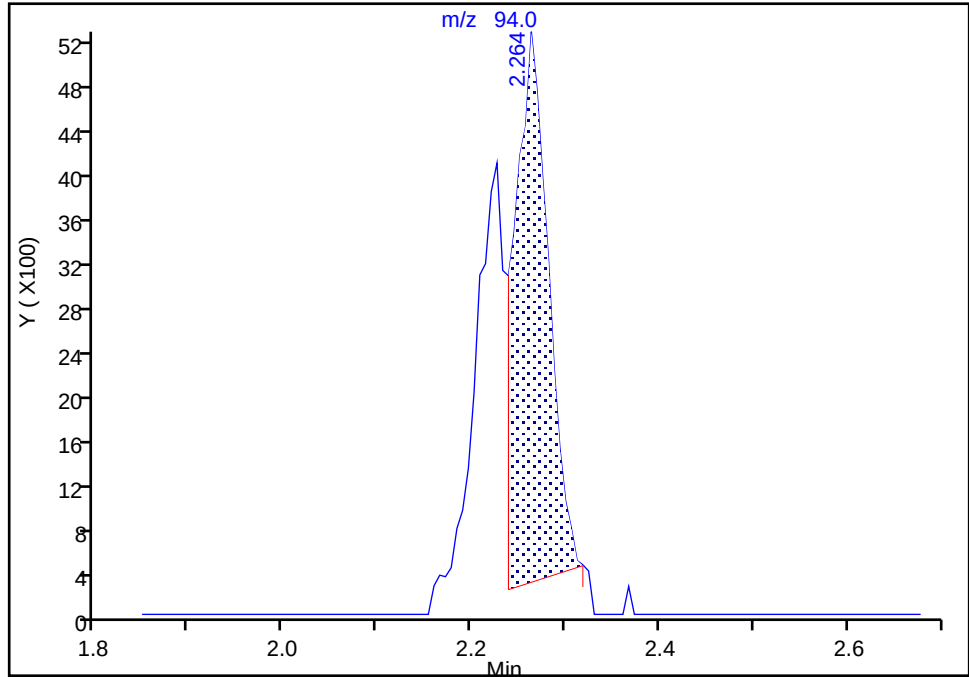
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Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

9 Bromomethane, CAS: 74-83-9

Signal: 1

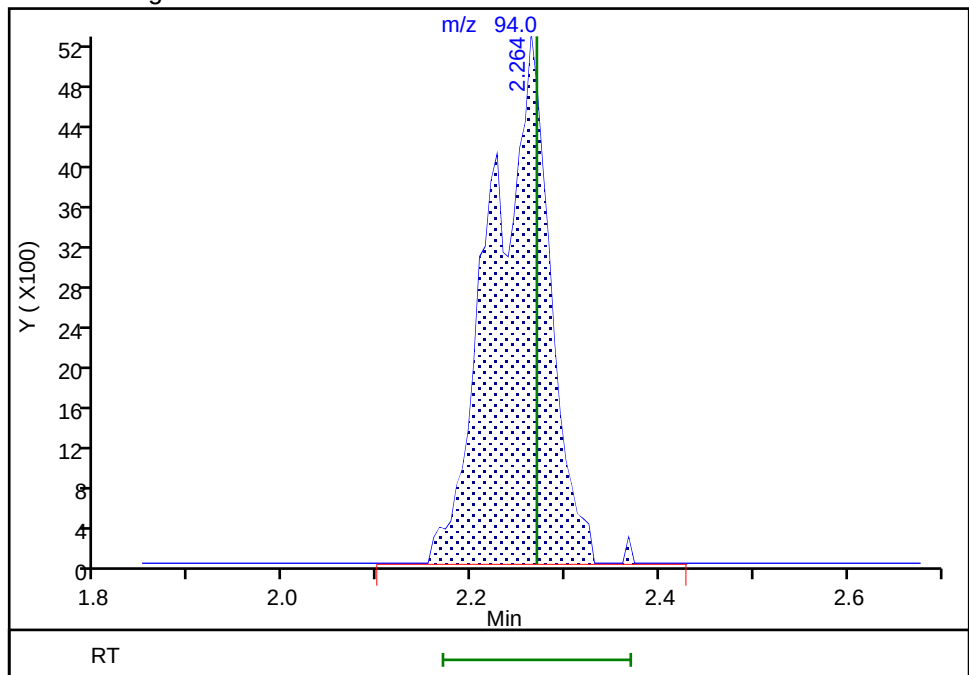
RT: 2.26
Area: 12470
Amount: 0.321188
Amount Units: ug/l

Processing Integration Results



RT: 2.26
Area: 23157
Amount: 0.490730
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:28:54 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

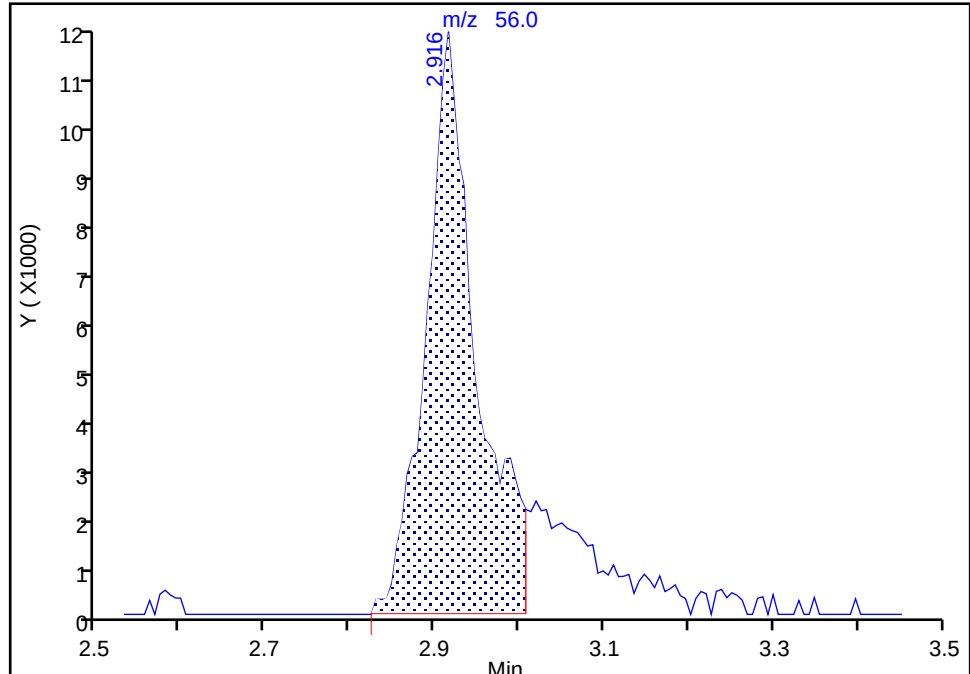
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Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

17 Acrolein, CAS: 107-02-8

Signal: 1

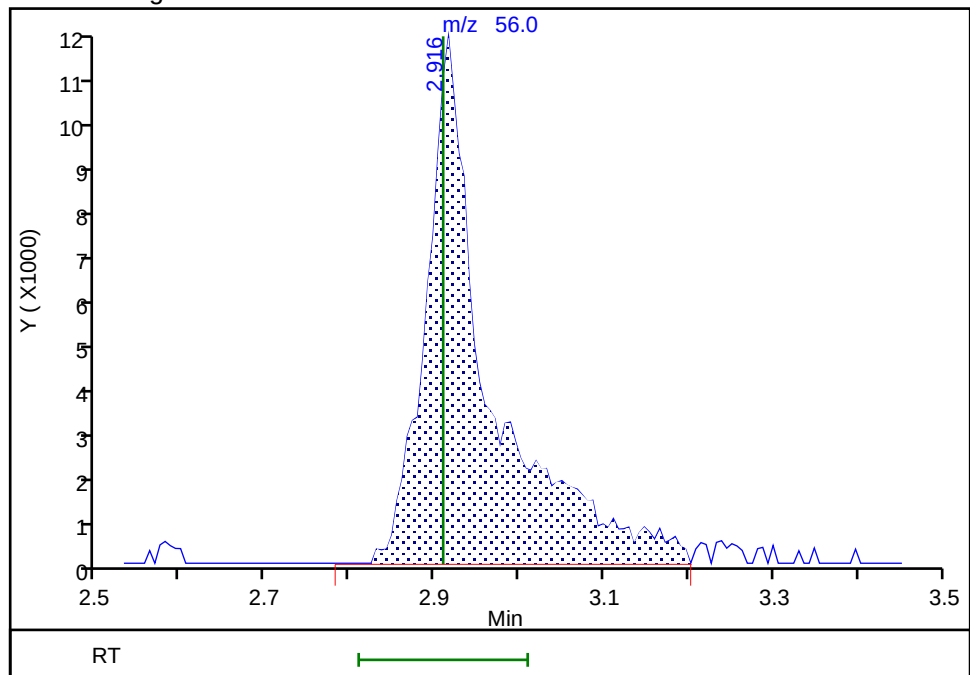
RT: 2.92
Area: 47029
Amount: 20.415447
Amount Units: ug/l

Processing Integration Results



RT: 2.92
Area: 59455
Amount: 18.795950
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:42:26 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

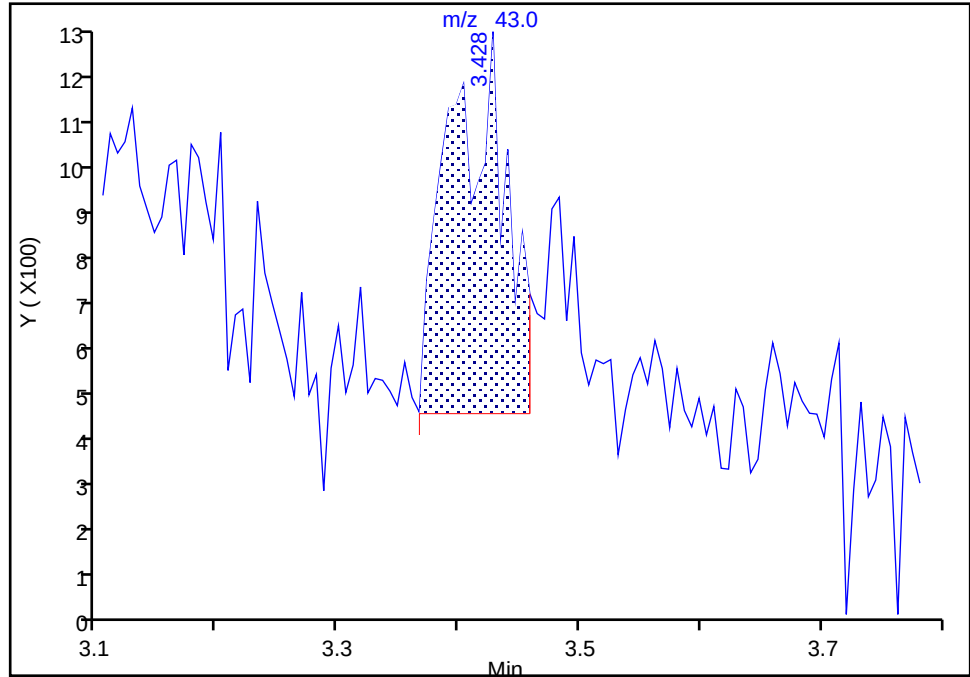
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Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Methyl acetate, CAS: 79-20-9

Signal: 1

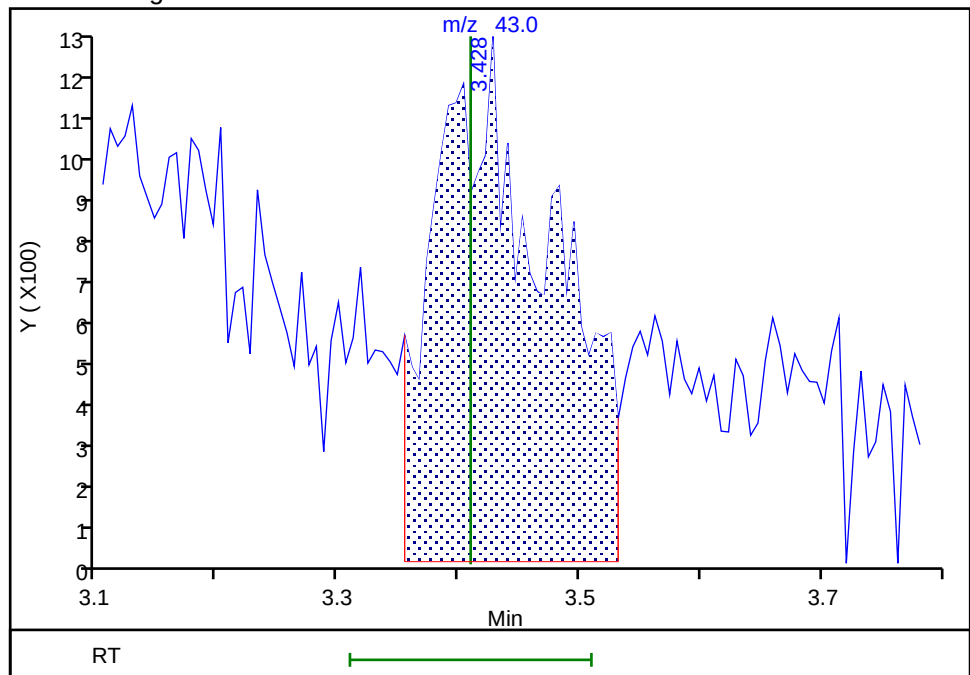
RT: 3.43
Area: 2776
Amount: 0.271710
Amount Units: ug/l

Processing Integration Results



RT: 3.43
Area: 8602
Amount: 0.454371
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:33:23 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

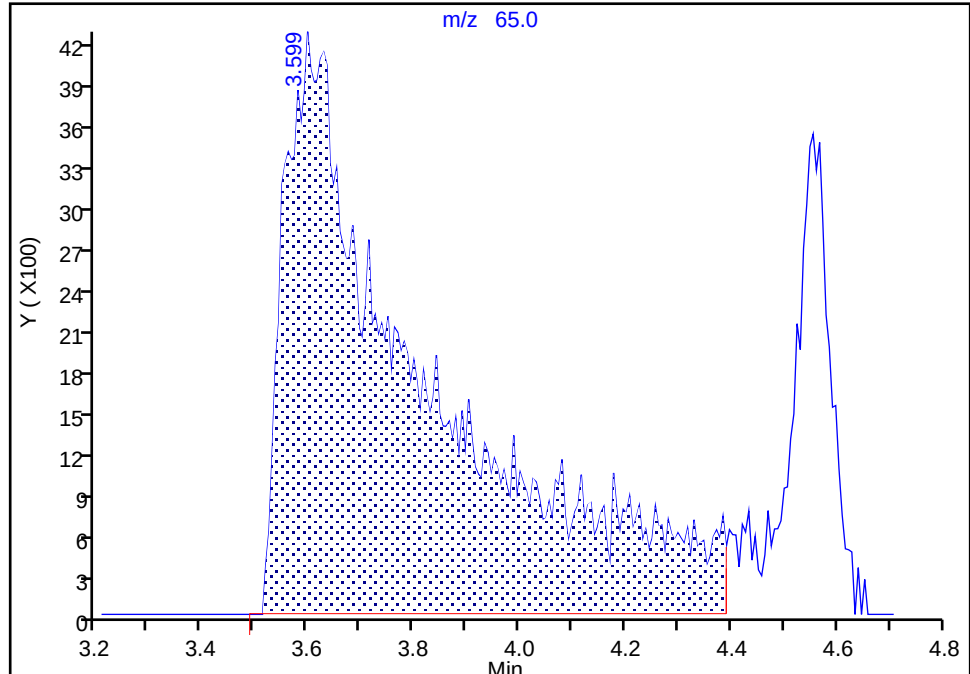
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Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

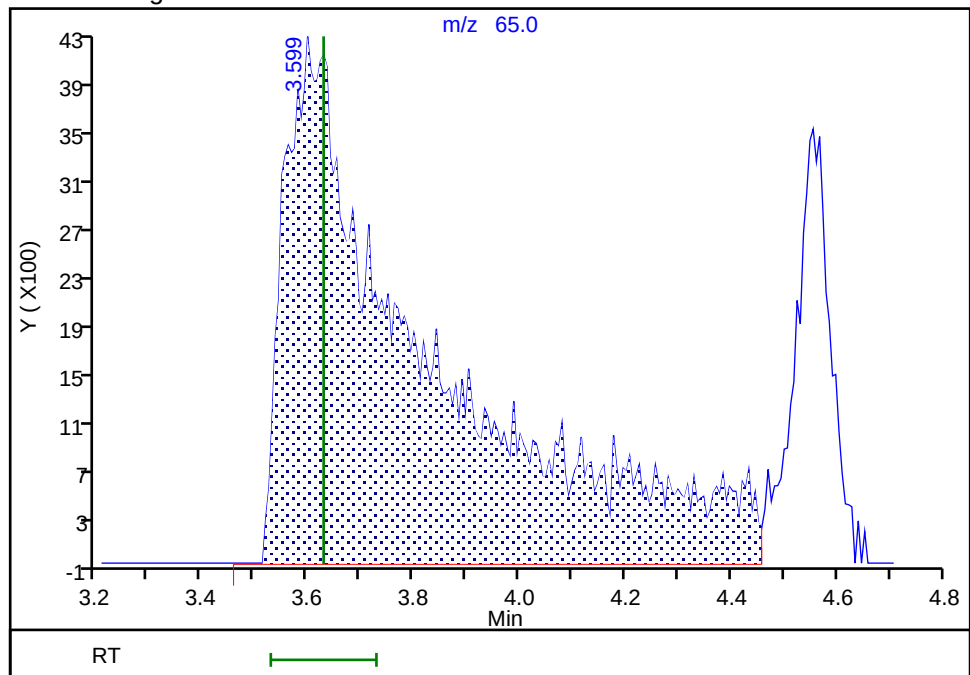
RT: 3.60
Area: 76110
Amount: 49.998300
Amount Units: ug/l

Processing Integration Results



RT: 3.60
Area: 78234
Amount: 49.998300
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:29:51 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

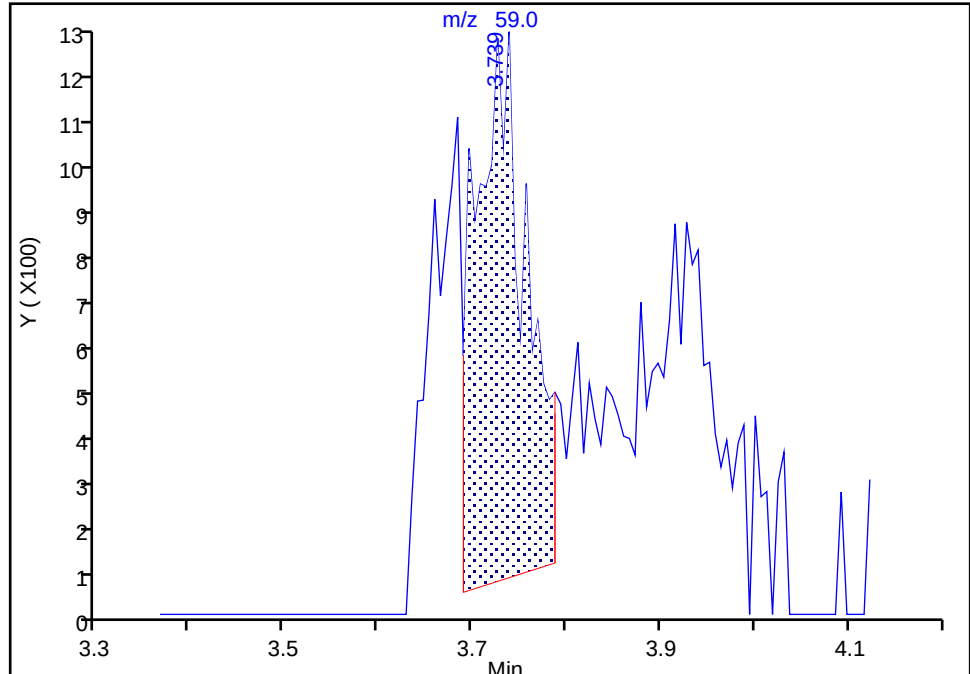
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Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

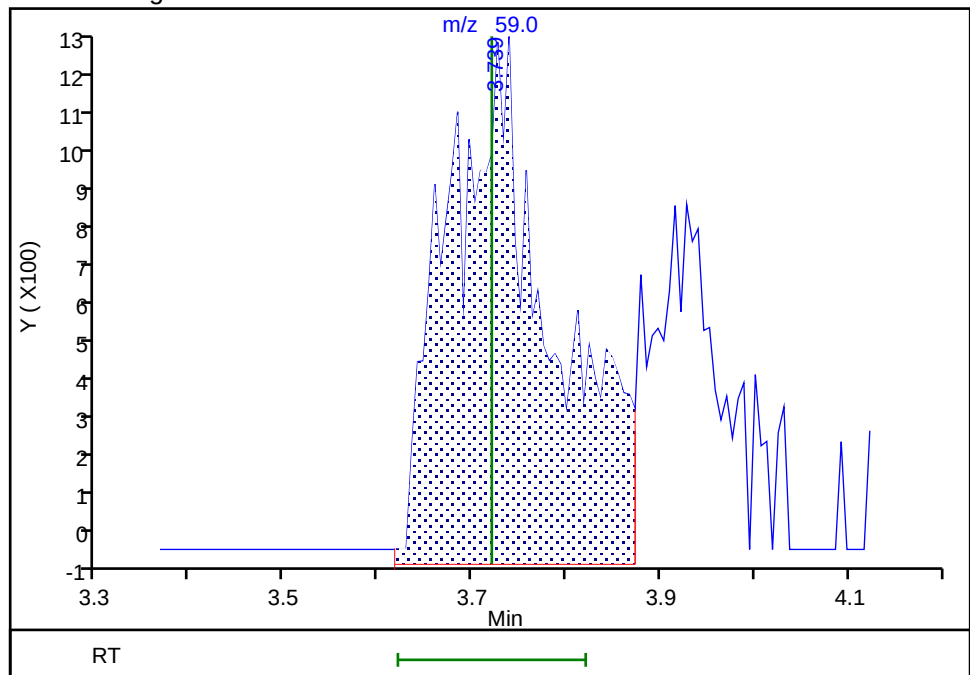
RT: 3.74
Area: 4508
Amount: 5.353406
Amount Units: ug/l

Processing Integration Results



RT: 3.74
Area: 10010
Amount: 10.887000
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:30:03 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

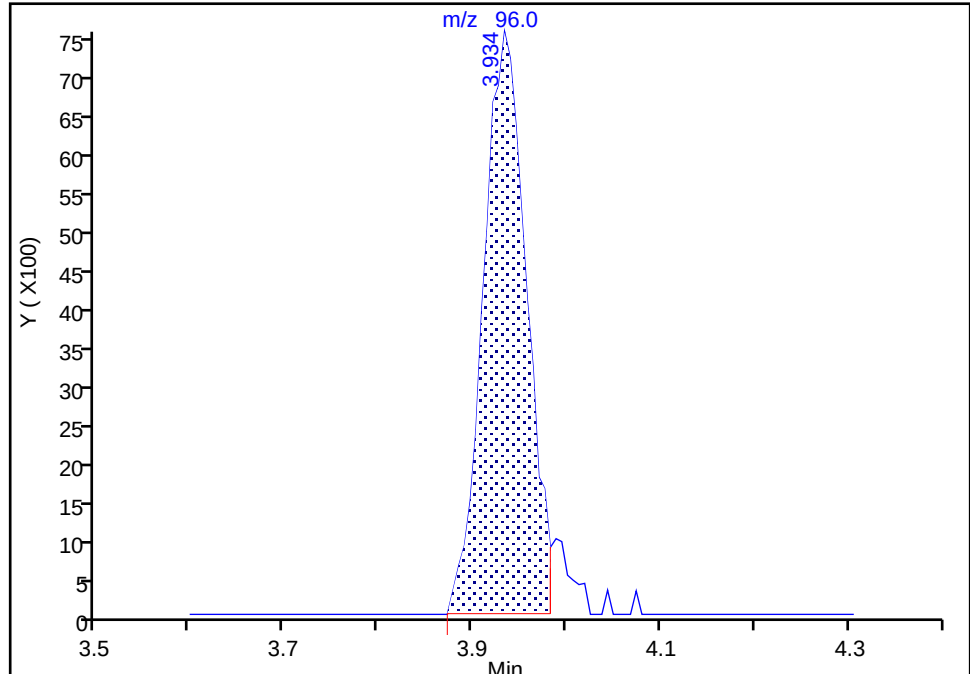
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Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

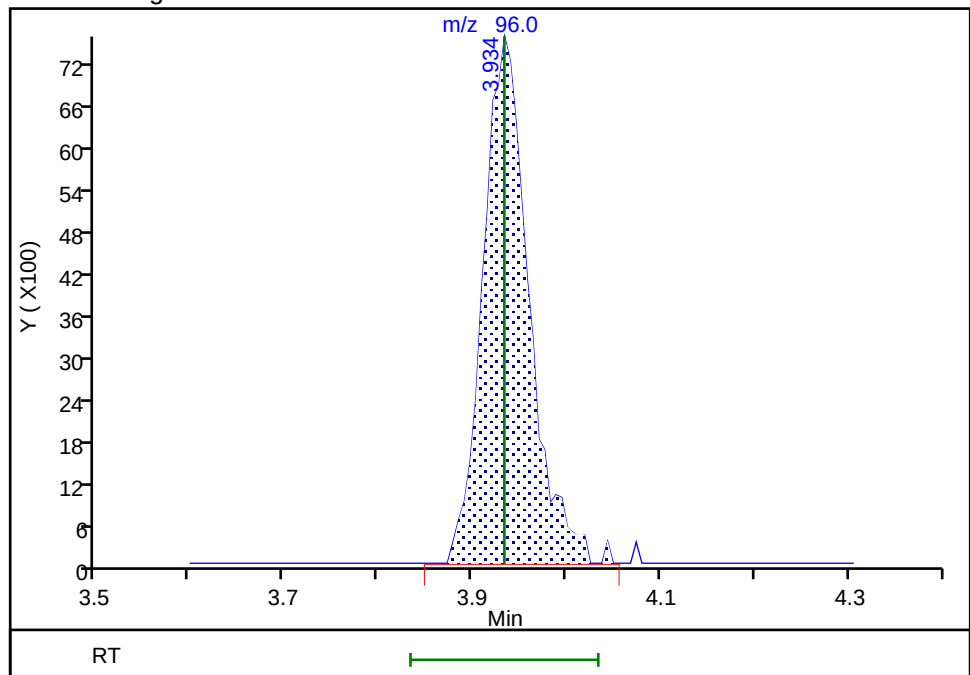
RT: 3.93
Area: 24194
Amount: 0.440721
Amount Units: ug/l

Processing Integration Results



RT: 3.93
Area: 25653
Amount: 0.463776
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:09:58 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

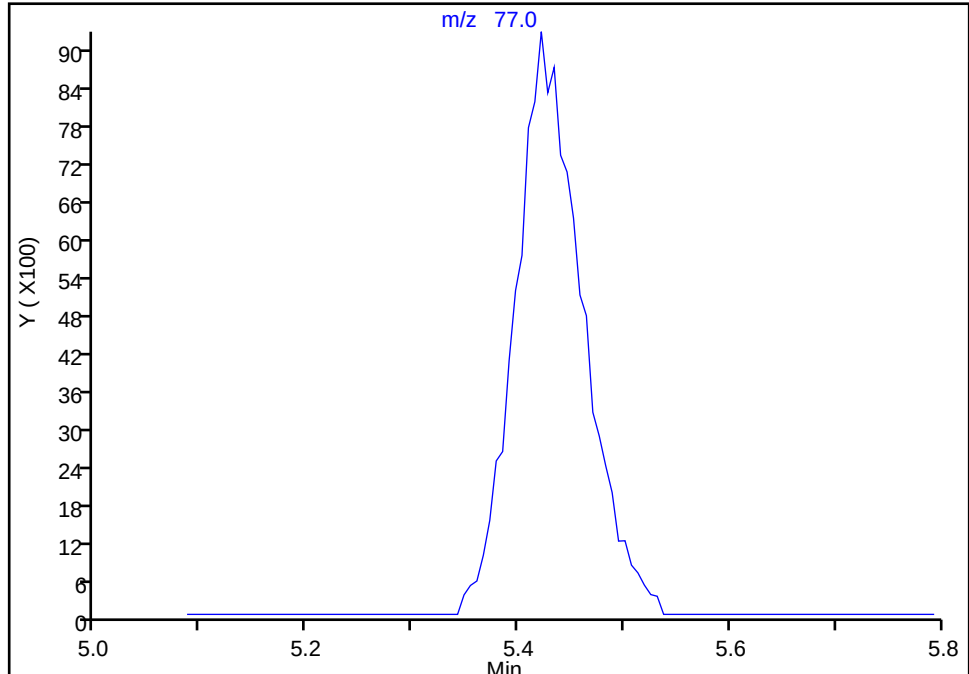
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Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

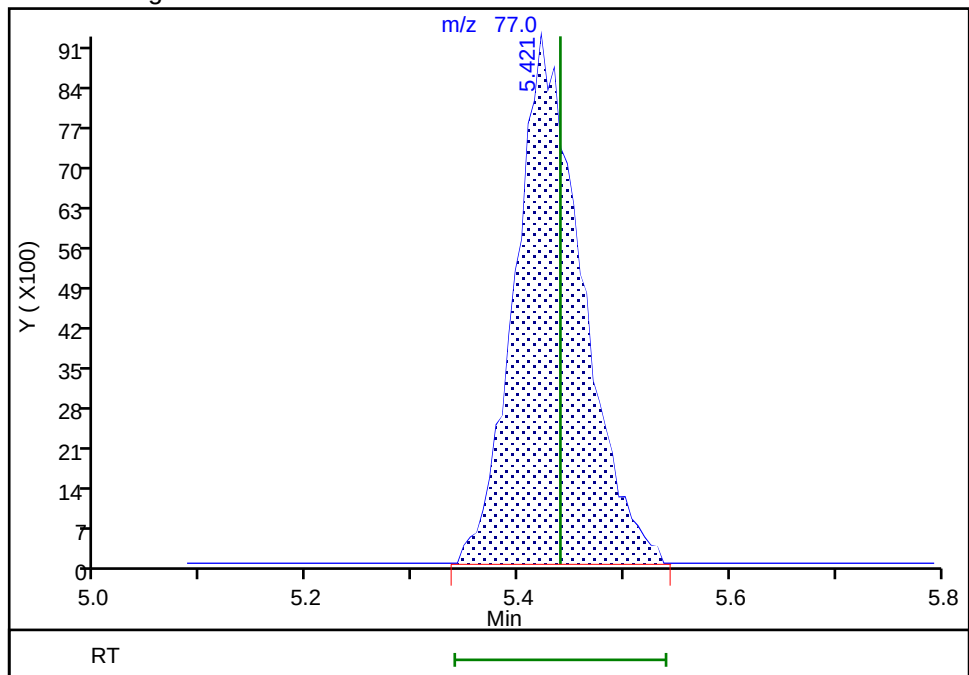
Not Detected
Expected RT: 5.44

Processing Integration Results



RT: 5.42
Area: 40782
Amount: 0.477904
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:12:25 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

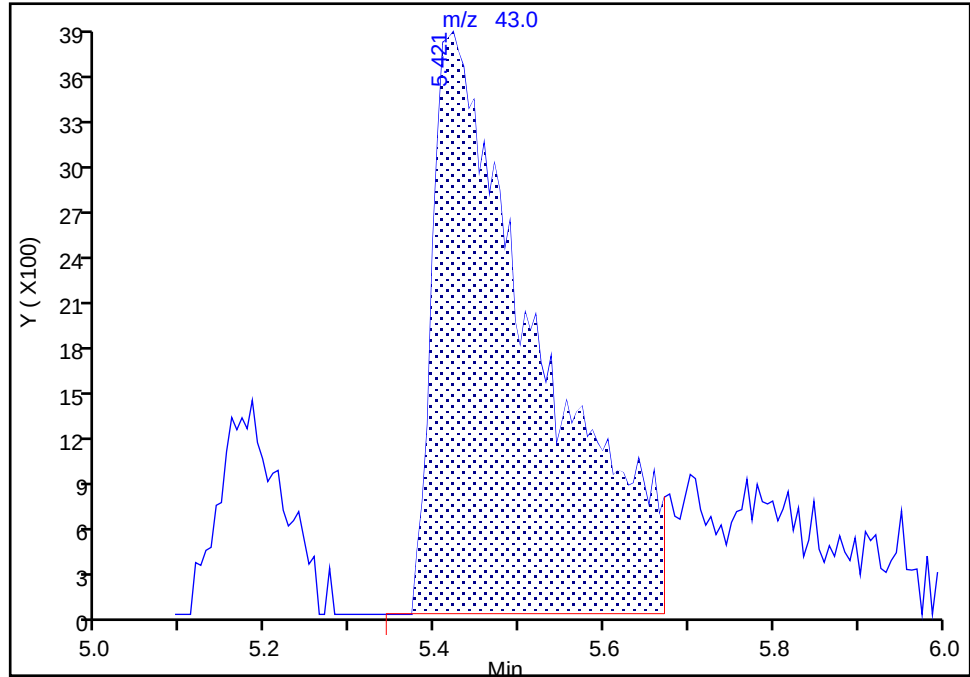
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Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

41 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

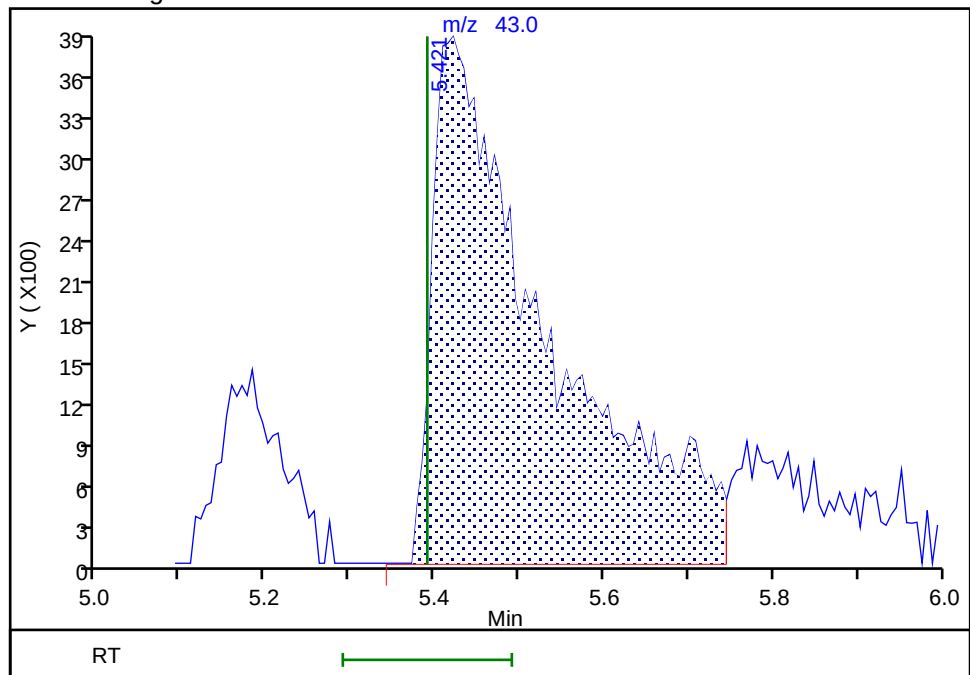
RT: 5.42
Area: 32792
Amount: 4.310305
Amount Units: ug/l

Processing Integration Results



RT: 5.42
Area: 35756
Amount: 4.648163
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:10:36 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

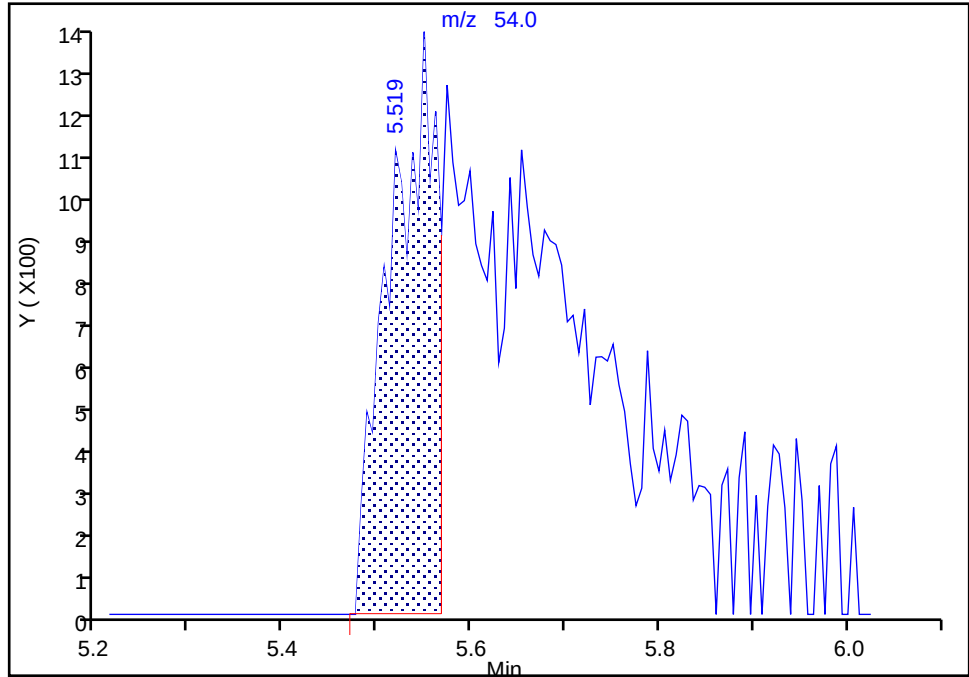
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Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

45 Propionitrile, CAS: 107-12-0

Signal: 1

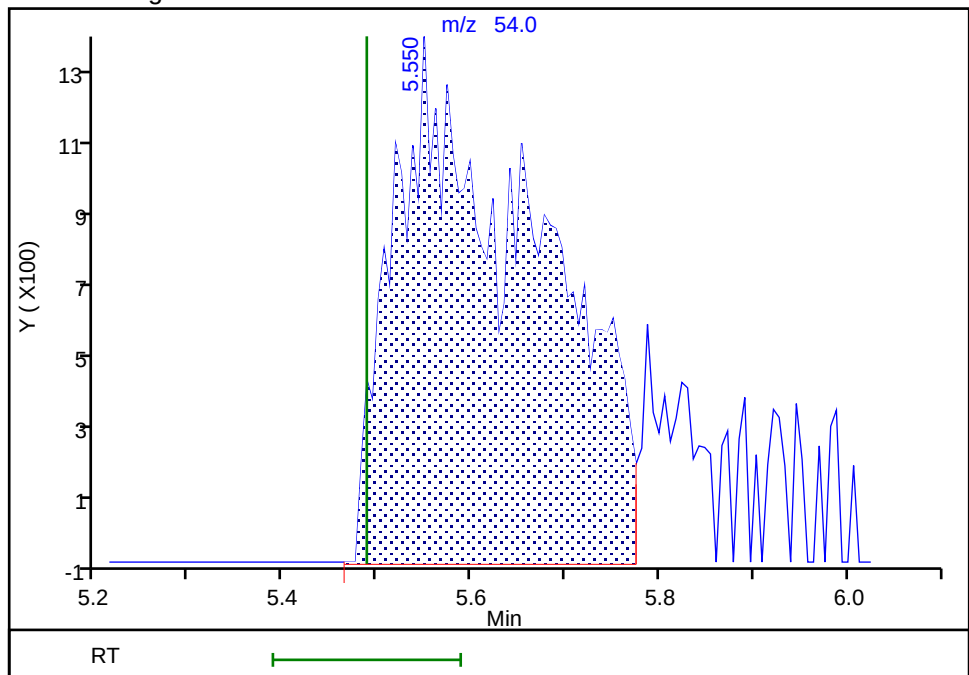
RT: 5.52
Area: 4656
Amount: 7.132745
Amount Units: ug/l

Processing Integration Results



RT: 5.55
Area: 14274
Amount: 10.406540
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:30:20 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

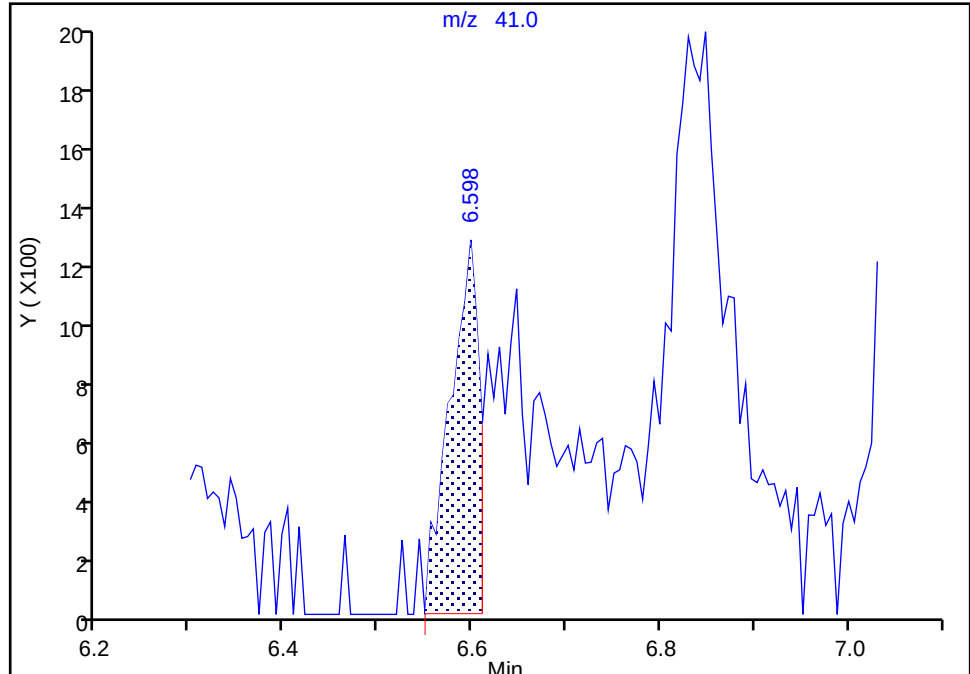
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Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

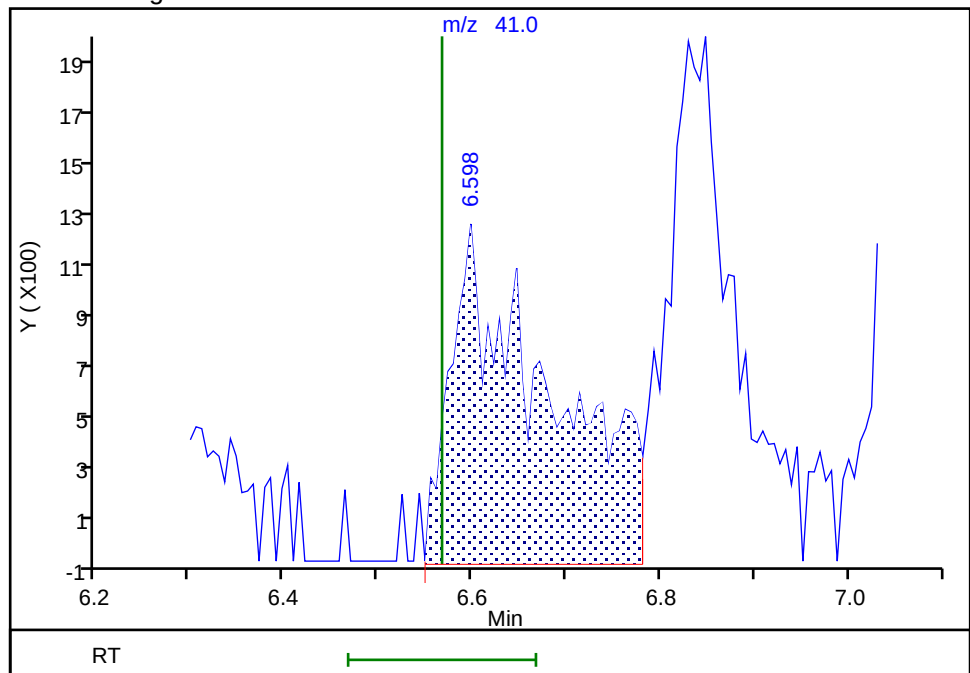
RT: 6.60
Area: 2742
Amount: 10.513182
Amount Units: ug/l

Processing Integration Results



RT: 6.60
Area: 9213
Amount: 24.304382
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:30:35 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

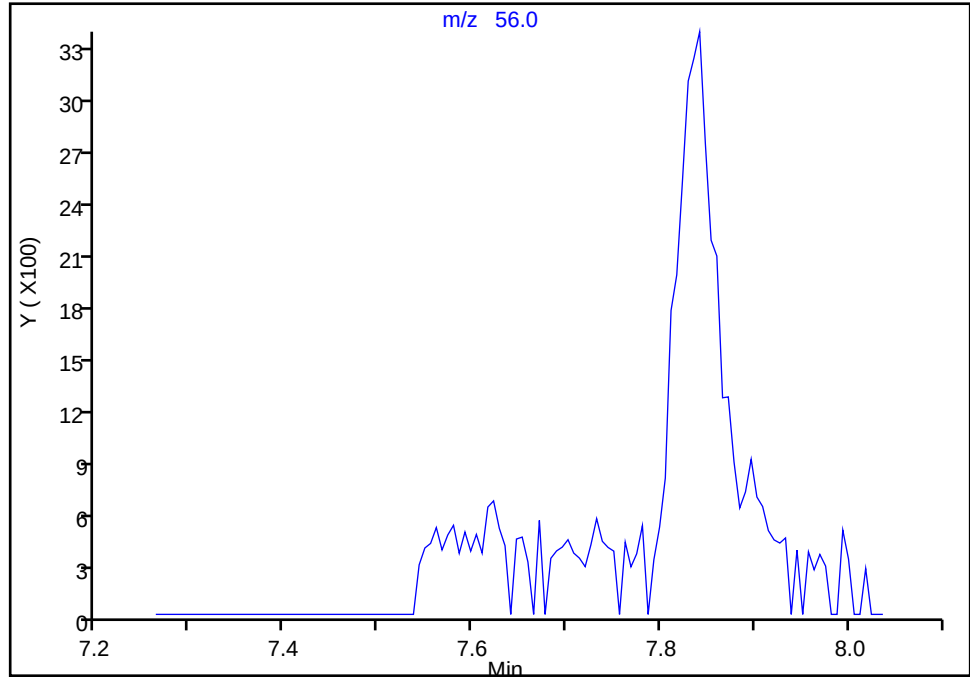
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Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

67 n-Butanol, CAS: 71-36-3

Signal: 1

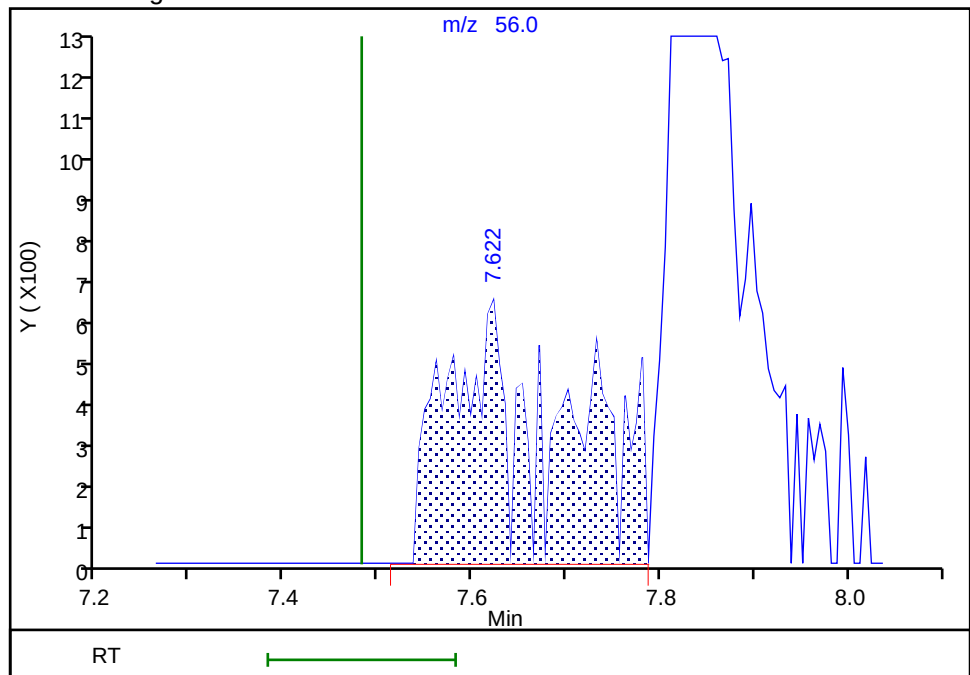
Not Detected
Expected RT: 7.48

Processing Integration Results



RT: 7.62
Area: 5401
Amount: 53.582890
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:30:45 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

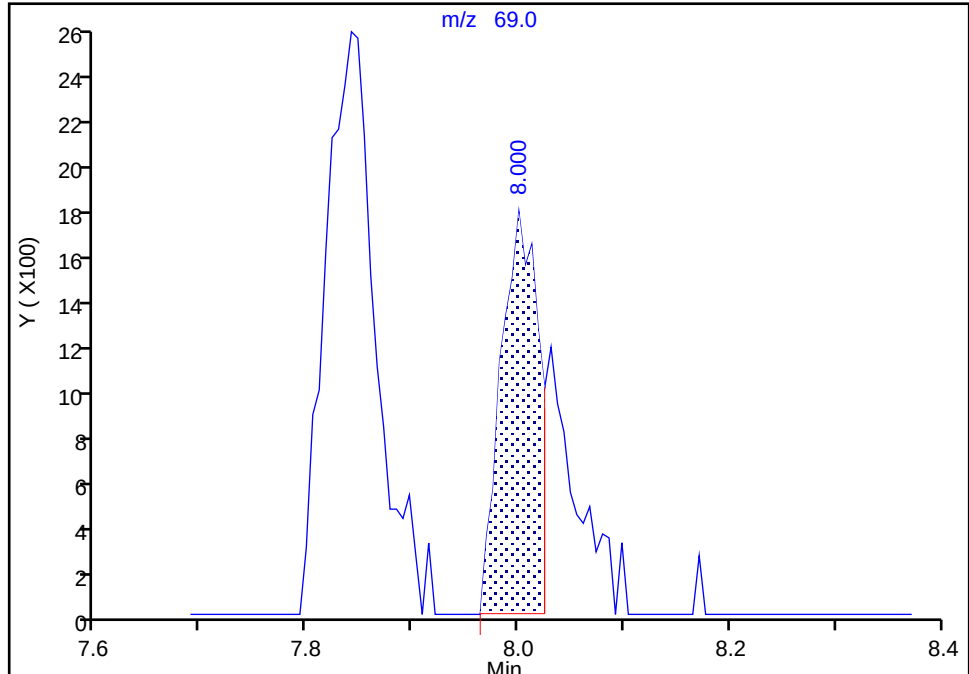
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X13.D
Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

72 Methyl methacrylate, CAS: 80-62-6

Signal: 1

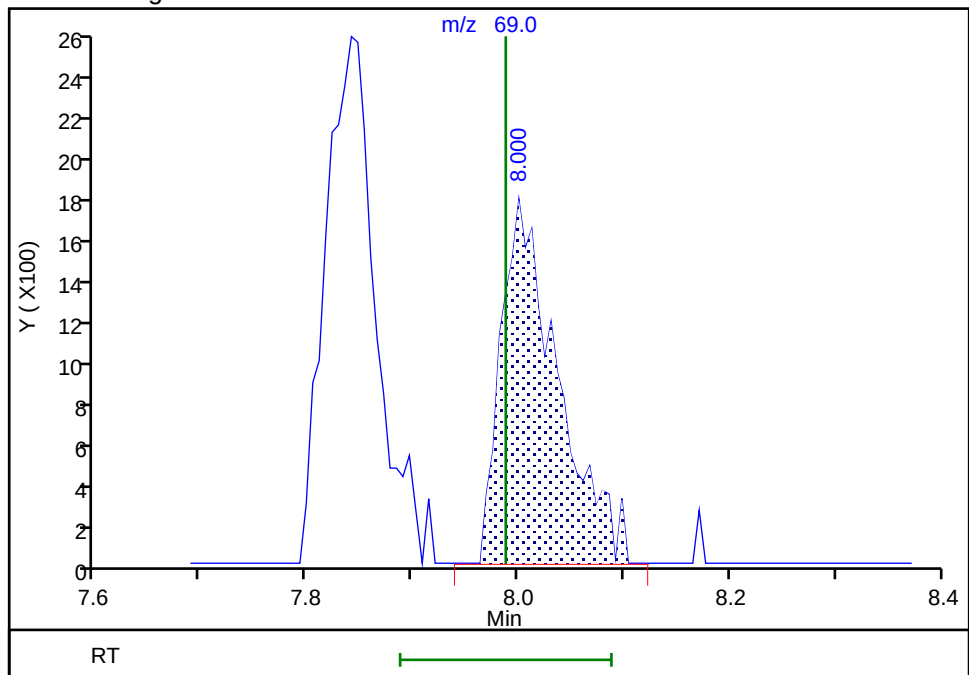
RT: 8.00
Area: 4303
Amount: 0.517728
Amount Units: ug/l

Processing Integration Results



RT: 8.00
Area: 6469
Amount: 0.410478
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:31:05 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

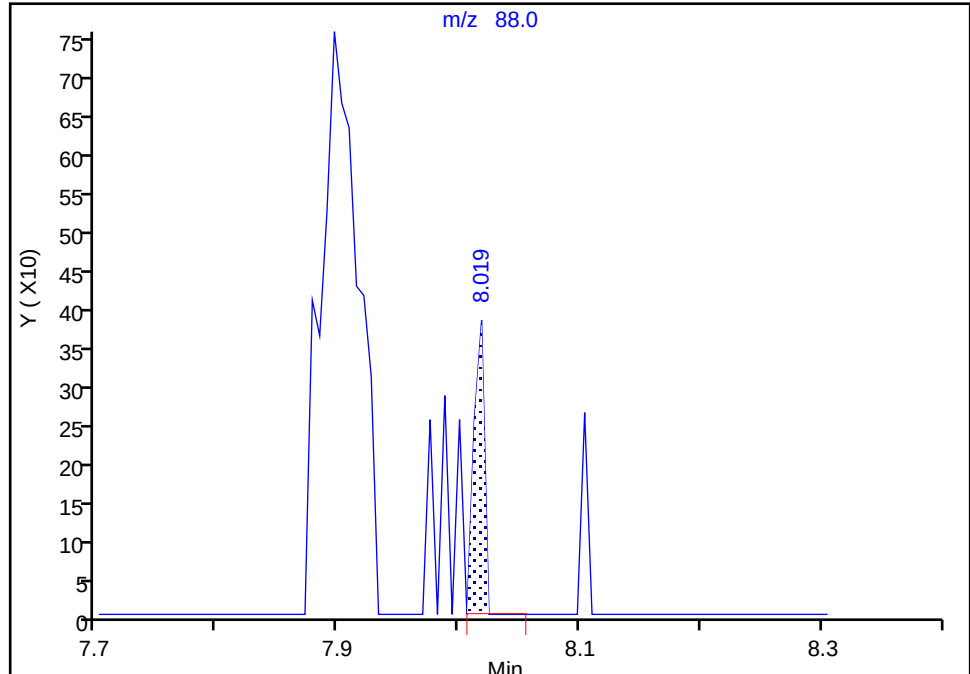
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X13.D
Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

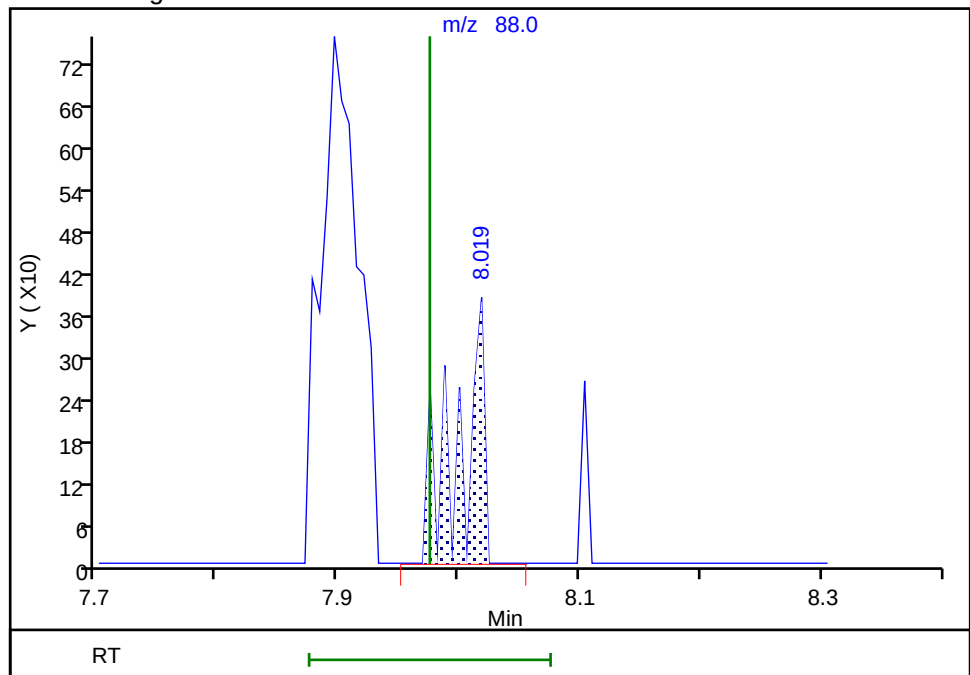
RT: 8.02
Area: 230
Amount: 18.315036
Amount Units: ug/l

Processing Integration Results



RT: 8.02
Area: 517
Amount: 5.169255
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:30:56 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

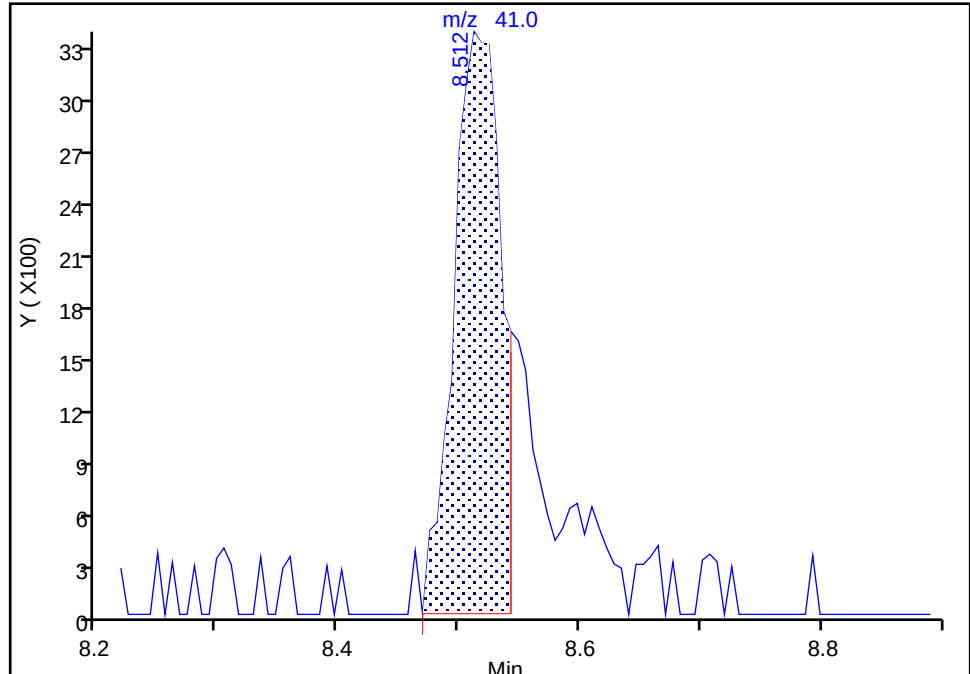
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X13.D
Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

77 2-Nitropropane, CAS: 79-46-9

Signal: 1

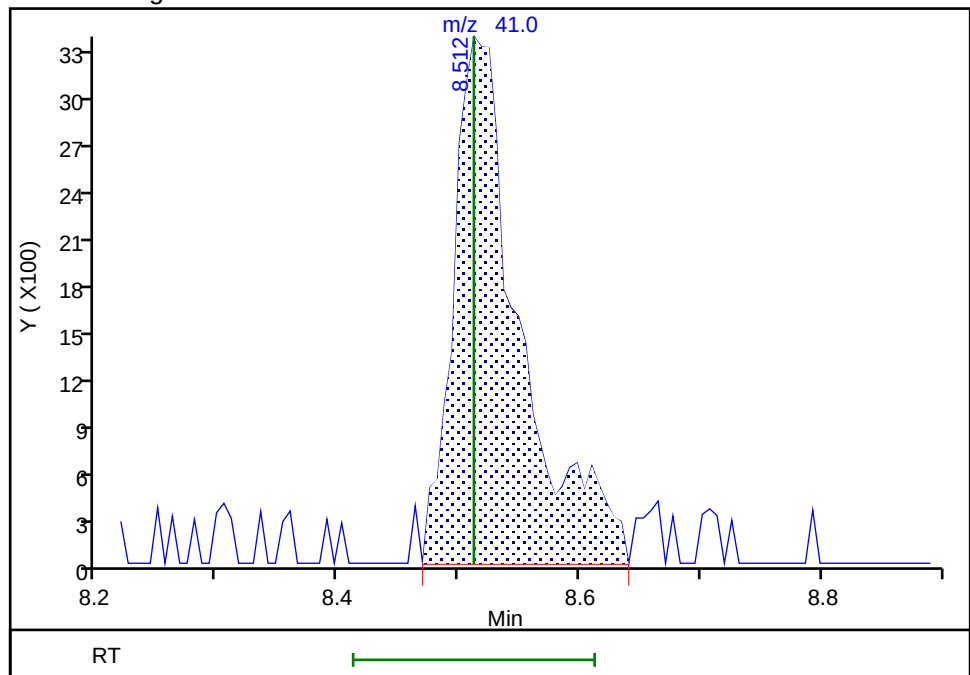
RT: 8.51
Area: 9141
Amount: 2.057232
Amount Units: ug/l

Processing Integration Results



RT: 8.51
Area: 12747
Amount: 2.651818
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:31:18 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

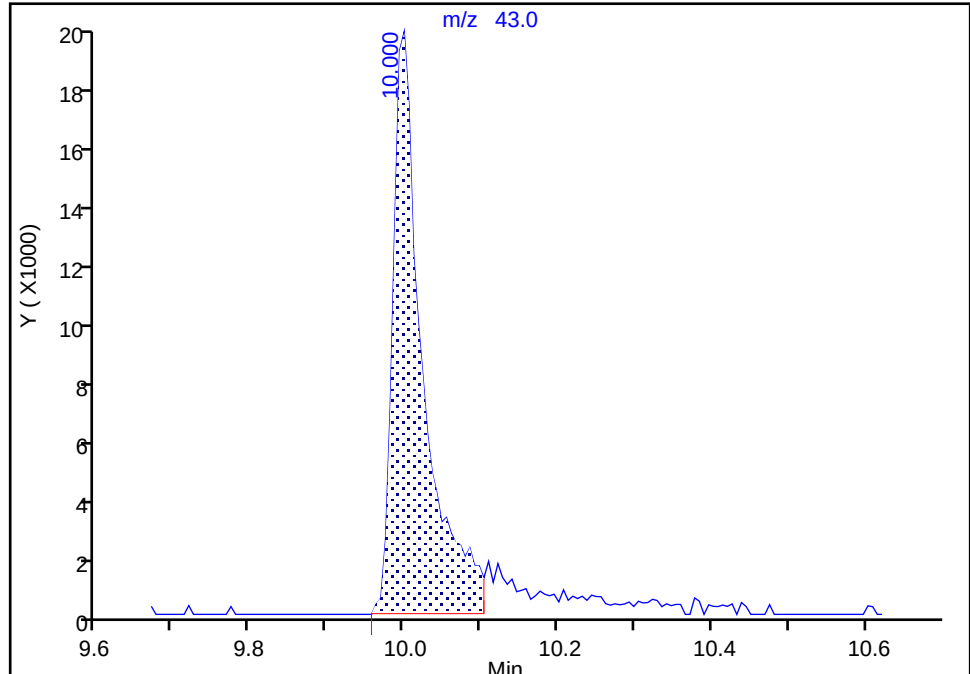
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Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

110 2-Hexanone, CAS: 591-78-6

Signal: 1

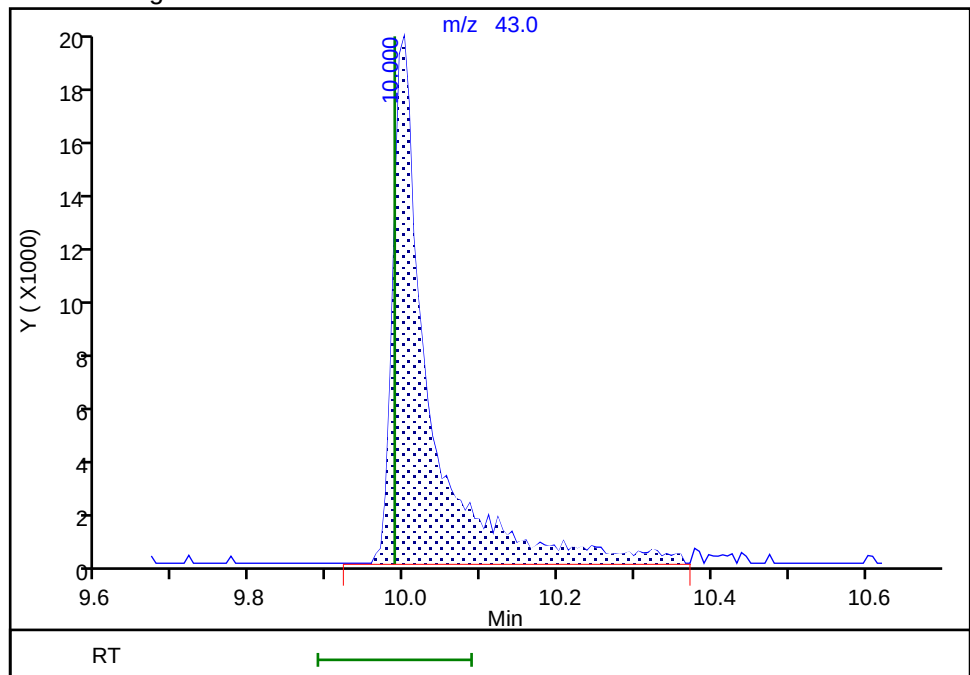
RT: 10.00
Area: 52227
Amount: 3.853867
Amount Units: ug/l

Processing Integration Results



RT: 10.00
Area: 61580
Amount: 4.456160
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:39:08 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

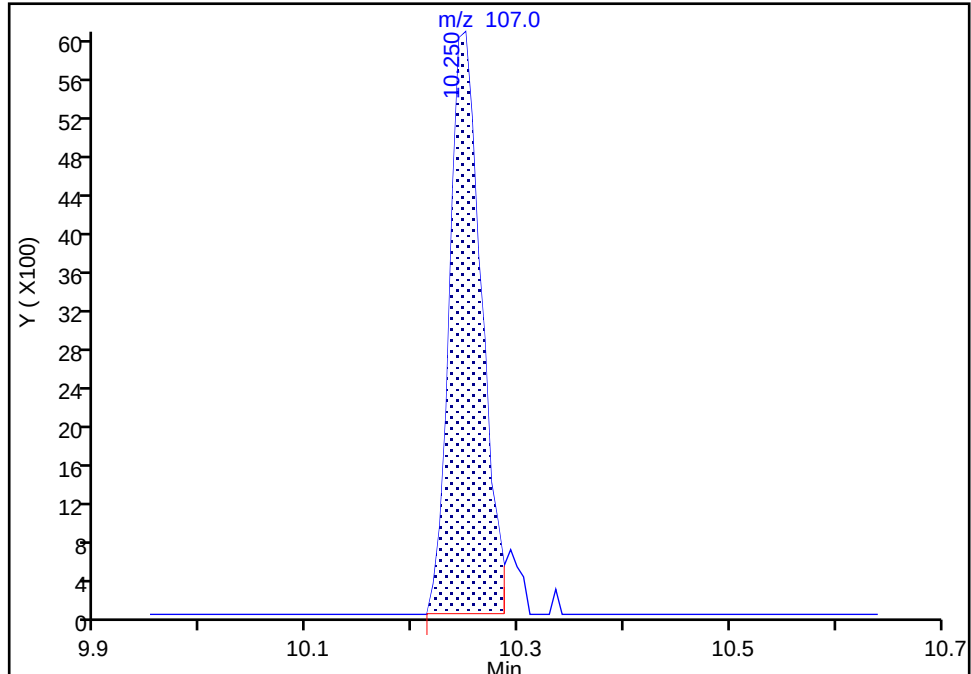
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Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

113 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

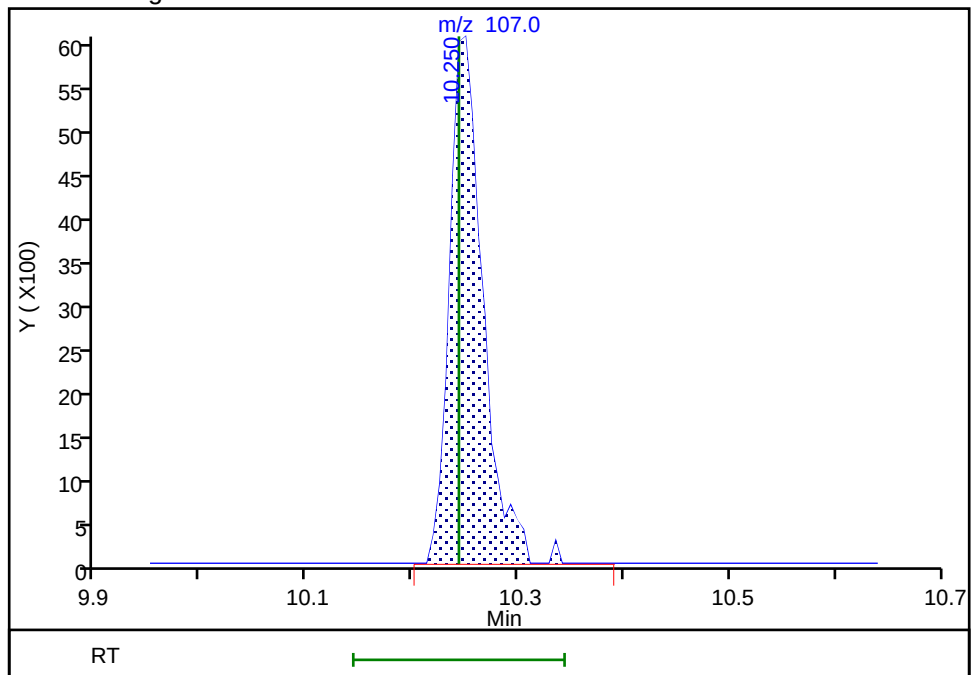
RT: 10.25
Area: 12511
Amount: 0.422256
Amount Units: ug/l

Processing Integration Results



RT: 10.25
Area: 13173
Amount: 0.441779
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:11:36 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

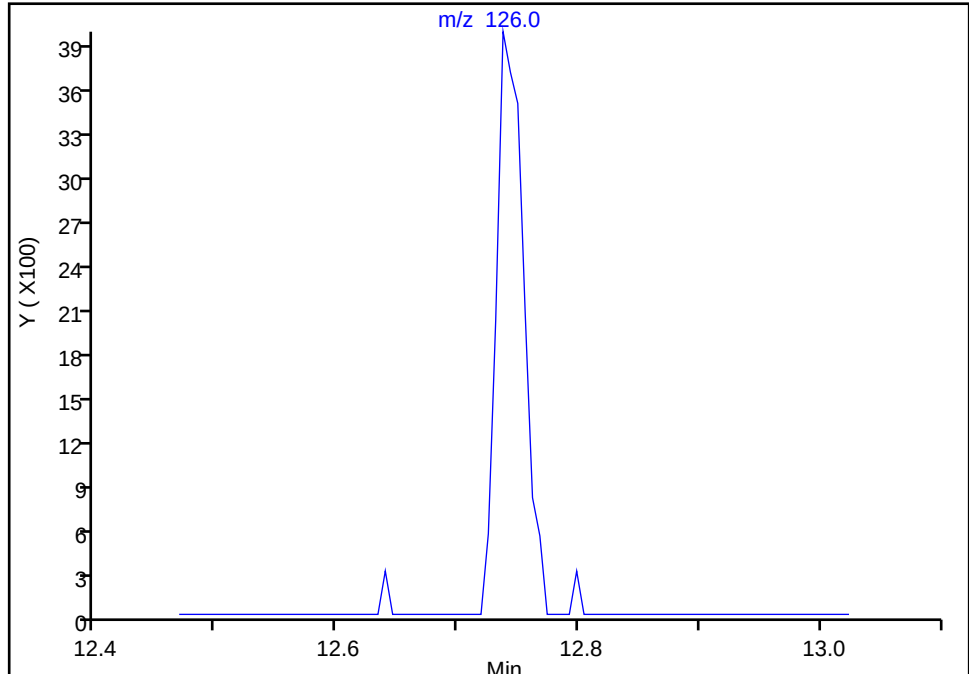
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X13.D
Injection Date: 03-Dec-2024 16:27:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) MS Quad

145 Benzyl chloride, CAS: 100-44-7

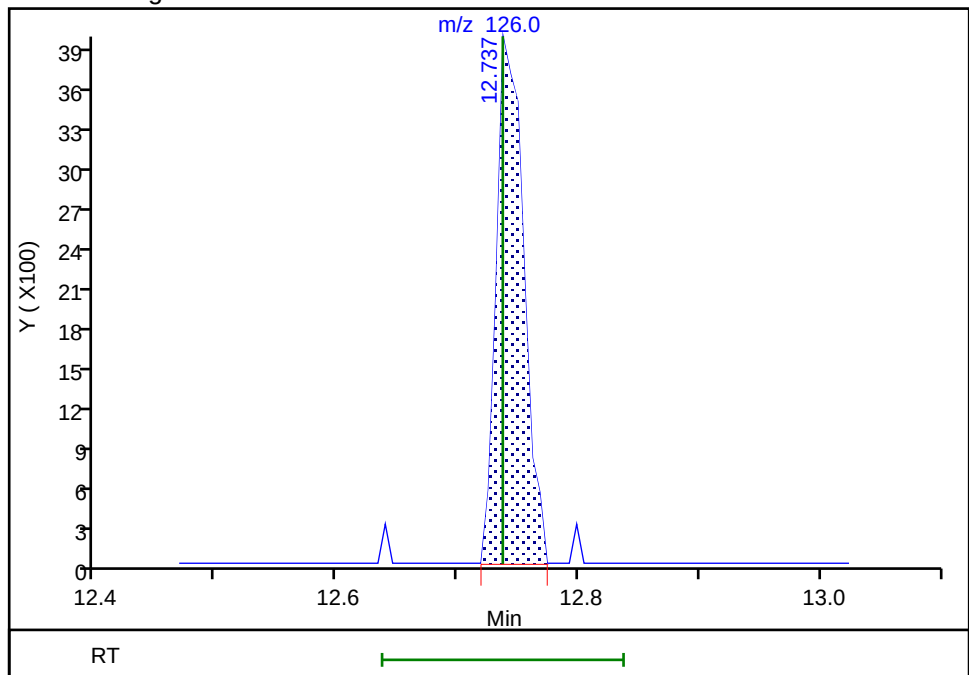
Signal: 1

Not Detected
Expected RT: 12.74

Processing Integration Results



Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:11:44 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X14.D
 Lims ID: IC std3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 03-Dec-2024 16:50:30 ALS Bottle#: 4 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0132221-015
 Misc. Info.: IC STD3
 Operator ID: knk41612 Instrument ID: 16334
 Sublist: chrom-MSV_16334_25mL*sub4
 Method: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Dec-2024 09:42:14 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1610

First Level Reviewer: DVW2

Date: 04-Dec-2024 08:11:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.703	1.709	-0.006	31	65808	1.00	1.07	
5 Chloromethane	50	1.879	1.879	0.000	99	72370	1.00	0.9783	
7 Butadiene	39	1.959	1.965	-0.006	90	69314	1.00	1.02	
6 Vinyl chloride	62	1.983	1.977	0.006	97	67557	1.00	1.01	
9 Bromomethane	94	2.270	2.269	0.001	91	44768	1.00	1.03	M
10 Chloroethane	64	2.306	2.306	0.000	99	36238	1.00	1.07	
11 Dichlorofluoromethane	67	2.507	2.507	0.000	96	96483	1.00	1.02	
12 Trichlorofluoromethane	101	2.593	2.599	-0.006	71	76757	1.00	1.03	
13 Ethyl ether	59	2.769	2.763	0.006	91	29561	1.00	1.09	M
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.837	2.843	-0.005	92	58279	1.00	1.04	
17 Acrolein	56	2.916	2.910	0.006	99	137133	48.8	48.1	M
18 1,1-Dichloroethene	96	3.026	3.025	0.001	98	47699	1.00	1.10	
19 Acetone	43	3.062	3.062	0.000	48	43205	10.0	10.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.062	3.068	-0.006	93	53034	1.00	1.16	
21 Isopropyl alcohol	45	3.208	3.178	0.030	26	8460	20.0	17.2	
22 Iodomethane	142	3.190	3.190	0.000	99	91582	1.00	1.09	
23 Ethyl bromide	108	3.215	3.214	0.001	98	41423	1.00	1.08	
24 Carbon disulfide	76	3.282	3.275	0.007	99	177642	1.00	1.11	
25 Methyl acetate	43	3.391	3.409	-0.018	22	16764	1.00	0.9821	M
27 3-Chloro-1-propene	41	3.428	3.422	0.006	92	80575	1.00	1.07	
29 Methylene Chloride	84	3.586	3.580	0.006	92	52643	1.00	1.09	
* 30 t-Butyl alcohol-d10 (IS)	65	3.611	3.629	-0.018	99	70537	50.0	50.0	M
31 2-Methyl-2-propanol	59	3.714	3.720	-0.006	69	19143	20.0	23.1	
32 Acrylonitrile	53	3.916	3.879	0.037	22	13084	2.50	2.36	
33 Methyl tert-butyl ether	73	3.928	3.928	0.000	82	101798	1.00	1.05	
34 trans-1,2-Dichloroethene	96	3.940	3.934	0.006	99	54392	1.00	1.06	
35 Hexane	57	4.336	4.330	0.006	92	75867	1.00	1.14	
37 1,1-Dichloroethane	63	4.562	4.562	0.000	96	100480	1.00	1.09	M
38 Isopropyl ether	45	4.635	4.635	0.000	93	155041	1.00	1.07	
39 2-Chloro-1,3-butadiene	53	4.684	4.678	0.006	91	76102	1.00	1.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.178	5.190	-0.012	98	137170	1.00	1.07	
41 2-Butanone (MEK)	43	5.415	5.391	0.024	99	76383	10.0	11.0	
42 cis-1,2-Dichloroethene	96	5.421	5.421	0.000	84	60132	1.00	1.08	
43 2,2-Dichloropropane	77	5.428	5.440	-0.012	66	84869	1.00	1.08	a
45 Propionitrile	54	5.501	5.488	0.013	97	32020	20.0	19.5	M
48 Methacrylonitrile	67	5.708	5.702	0.006	91	82535	10.0	11.0	
49 Chlorobromomethane	128	5.763	5.757	0.006	93	23499	1.00	1.12	M
50 Tetrahydrofuran	71	5.781	5.781	0.000	78	11210	5.00	5.65	
51 Chloroform	83	5.921	5.921	0.000	93	98445	1.00	1.08	
53 1,1,1-Trichloroethane	97	6.141	6.141	0.000	45	87414	1.00	1.09	
\$ 52 Dibromofluoromethane (Surr)	113	6.141	6.141	0.000	93	457423	10.0	10.1	
S 47 1,2-Dichloroethene, Total	100				0			2.14	
54 Cyclohexane	56	6.244	6.244	0.000	89	89108	1.00	1.11	
55 Carbon tetrachloride	117	6.360	6.360	0.000	96	75268	1.00	1.09	
56 1,1-Dichloropropene	75	6.366	6.366	0.000	97	78123	1.00	1.09	
58 Isobutyl alcohol	41	6.610	6.567	0.043	31	17367	50.0	49.6	M
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.592	6.592	0.000	70	87076	10.0	10.0	
60 Benzene	78	6.628	6.628	0.000	92	237860	1.00	1.11	M
61 1,2-Dichloroethane	62	6.696	6.702	-0.006	97	53515	1.00	1.09	
63 Tert-amyl methyl ether	73	6.842	6.842	0.000	99	110626	1.00	1.04	
* 64 Fluorobenzene (IS)	96	7.043	7.049	-0.006	99	1927527	10.0	10.0	
65 n-Heptane	43	7.074	7.073	0.001	94	75912	1.00	1.16	M
67 n-Butanol	56	7.537	7.482	0.055	25	14226	87.5	86.1	
68 Trichloroethene	95	7.537	7.537	0.000	99	60246	1.00	1.10	
69 Methylcyclohexane	83	7.842	7.842	0.000	90	94088	1.00	1.12	
70 1,2-Dichloropropane	63	7.866	7.872	-0.006	97	56348	1.00	1.09	
71 2-ethoxy-2-methyl butane	87	7.903	7.909	-0.006	94	79355	1.00	1.06	
73 1,4-Dioxane	88	7.994	7.976	0.018	31	3051	50.0	33.8	M
74 Dibromomethane	93	7.988	7.982	0.006	97	23103	1.00	1.09	
72 Methyl methacrylate	69	7.994	7.988	0.006	87	14655	1.00	1.03	
76 Dichlorobromomethane	83	8.232	8.232	0.000	98	61960	1.00	1.04	
77 2-Nitropropane	41	8.518	8.512	0.006	98	21818	5.00	5.03	
79 1-Bromo-2-chloroethane	63	8.622	8.622	0.000	99	46498	1.00	1.04	
81 cis-1,3-Dichloropropene	75	8.805	8.799	0.006	96	77165	1.00	1.06	
82 4-Methyl-2-pentanone (MIBK)	43	9.012	9.006	0.006	97	189139	10.0	10.5	
\$ 83 Toluene-d8 (Surr)	98	9.134	9.140	-0.006	93	1946099	10.0	10.0	
84 Toluene	92	9.219	9.225	-0.006	98	147967	1.00	1.10	
85 trans-1,3-Dichloropropene	75	9.524	9.518	0.006	91	57396	1.00	1.02	
86 Ethyl methacrylate	69	9.616	9.609	0.007	89	32170	1.00	0.9428	
107 1,1,2-Trichloroethane	97	9.738	9.737	0.001	92	33186	1.00	1.06	
108 Tetrachloroethene	166	9.829	9.823	0.006	96	65358	1.00	1.07	
109 1,3-Dichloropropane	76	9.908	9.908	0.000	89	57306	1.00	1.06	
110 2-Hexanone	43	9.994	9.987	0.007	97	124705	10.0	10.0	
S 106 1,3-Dichloropropene, Total	100				0			2.08	
112 Chlorodibromomethane	129	10.134	10.134	0.000	89	40257	1.00	1.06	
113 Ethylene Dibromide	107	10.250	10.243	0.007	98	29644	1.00	1.07	
* 114 Chlorobenzene-d5 (IS)	117	10.707	10.707	0.000	86	1402135	10.0	10.0	
116 Chlorobenzene	112	10.731	10.731	0.000	96	165351	1.00	1.09	
115 1-Chlorohexane	91	10.731	10.731	0.000	95	76521	1.00	1.05	
117 1,1,1,2-Tetrachloroethane	131	10.823	10.823	0.000	95	53055	1.00	1.08	
118 Ethylbenzene	91	10.829	10.829	0.000	99	281463	1.00	1.07	
120 m-Xylene & p-Xylene	106	10.951	10.951	0.000	100	217619	2.00	2.15	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 119 Xylenes, Total	106				0			3.23	
121 o-Xylene	106	11.292	11.292	0.000	96	104838	1.00	1.08	
122 Styrene	104	11.311	11.310	0.000	95	153403	1.00	1.04	
123 Bromoform	173	11.463	11.463	0.000	95	20481	1.00	1.04	
124 Isopropylbenzene	105	11.603	11.603	0.000	96	243585	1.00	1.07	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.743	11.743	0.000	89	673609	10.0	10.0	
128 1,1,2,2-Tetrachloroethane	83	11.859	11.859	0.000	88	37217	1.00	1.06	
129 Bromobenzene	156	11.859	11.859	0.000	92	62293	1.00	1.06	
130 trans-1,4-Dichloro-2-butene	53	11.884	11.883	0.001	92	83727	10.0	11.0	
131 1,2,3-Trichloropropane	110	11.902	11.902	0.000	77	10160	1.00	1.09	
132 N-Propylbenzene	91	11.938	11.938	0.000	99	341766	1.00	1.08	
133 2-Chlorotoluene	126	12.012	12.011	0.001	96	66460	1.00	1.06	
134 1,3,5-Trimethylbenzene	105	12.085	12.085	0.000	93	242188	1.00	1.09	
135 4-Chlorotoluene	126	12.109	12.103	0.006	97	70610	1.00	1.09	
136 tert-Butylbenzene	134	12.323	12.322	0.000	93	51481	1.00	1.07	
137 Pentachloroethane	167	12.353	12.353	0.000	79	34802	1.00	1.05	
138 1,2,4-Trimethylbenzene	105	12.371	12.365	0.006	97	244208	1.00	1.07	
139 sec-Butylbenzene	105	12.493	12.487	0.006	94	309017	1.00	1.07	
140 1,3-Dichlorobenzene	146	12.585	12.585	0.001	98	134749	1.00	1.08	
141 4-Isopropyltoluene	119	12.603	12.603	0.000	97	261939	1.00	1.06	
* 142 1,4-Dichlorobenzene-d4	152	12.640	12.639	0.001	96	755480	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.658	12.658	0.000	94	139934	1.00	1.10	
144 1,2,3-Trimethylbenzene	120	12.676	12.676	0.000	98	105239	1.00	1.08	
145 Benzyl chloride	126	12.743	12.737	0.006	98	15322	1.00	1.08	a
146 p-Diethylbenzene	119	12.877	12.877	0.000	96	161679	1.00	1.06	
147 n-Butylbenzene	92	12.896	12.895	0.001	97	134904	1.00	1.07	
148 1,2-Dichlorobenzene	146	12.920	12.920	0.000	98	119001	1.00	1.10	
150 1,2-Dibromo-3-Chloropropane	155	13.463	13.462	0.001	83	4070	1.00	1.07	
151 1,3,5-Trichlorobenzene	180	13.591	13.590	0.001	98	106485	1.00	1.08	
152 1,2,4-Trichlorobenzene	180	14.017	14.011	0.006	95	80461	1.00	1.03	
153 Hexachlorobutadiene	225	14.103	14.103	0.001	98	44935	1.00	1.05	
154 Naphthalene	128	14.194	14.188	0.006	97	105429	1.00	1.01	
155 1,2,3-Trichlorobenzene	180	14.334	14.334	0.000	95	63634	1.00	1.04	
156 2-Methylnaphthalene	142	14.920	14.919	0.001	91	45417	1.00	0.9752	
167 Pentane	43	2.769	2.769	0.000	40	4185	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00155	Amount Added: 2.00	Units: uL	
MSV_LL_#2_826_00163	Amount Added: 2.00	Units: uL	
MSV_LL_GAS826_00247	Amount Added: 2.00	Units: uL	
MSV_29_826ISS_00057	Amount Added: 1.20	Units: uL	Run Reagent

Report Date: 09-Dec-2024 09:42:15

Chrom Revision: 2.3 12-Nov-2024 16:55:22

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X14.D

Injection Date: 03-Dec-2024 16:50:30

Instrument ID: 16334

Operator ID: knk41612

Lims ID: IC std3

Worklist Smp#: 15

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

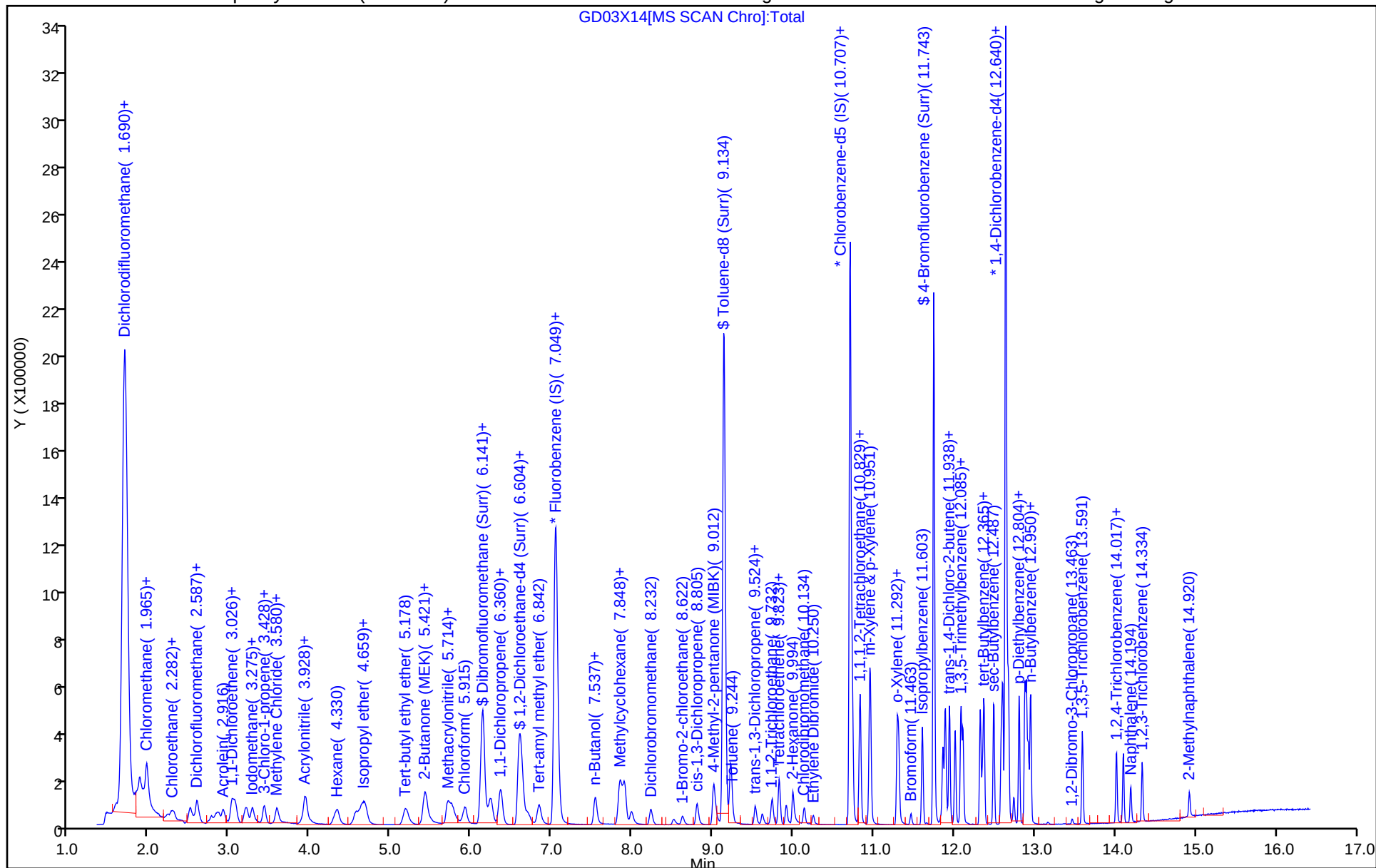
ALS Bottle#: 4

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

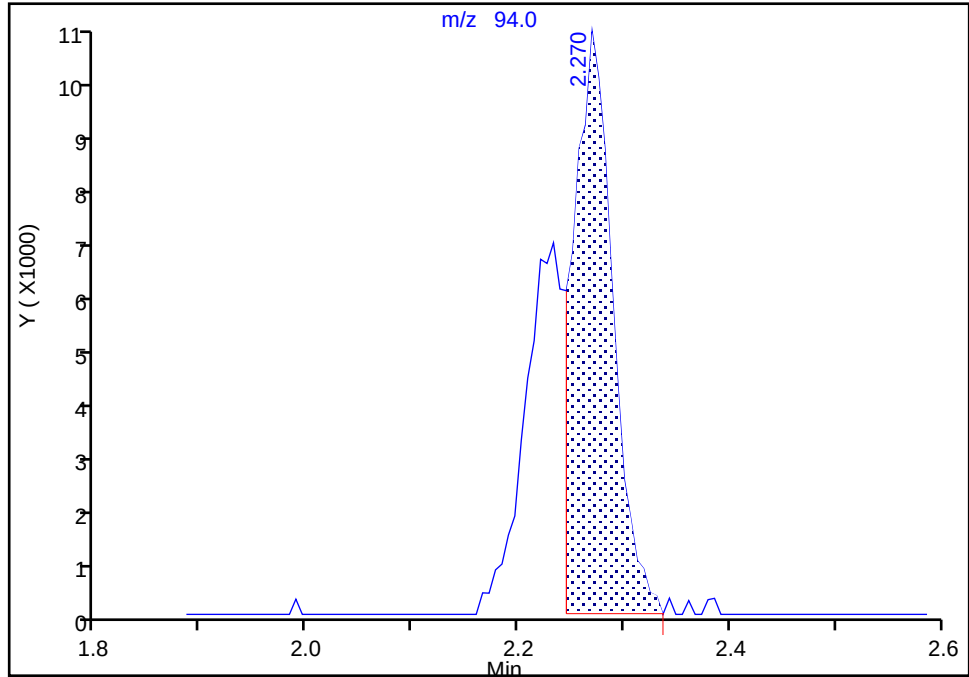
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X14.D
Injection Date: 03-Dec-2024 16:50:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

9 Bromomethane, CAS: 74-83-9

Signal: 1

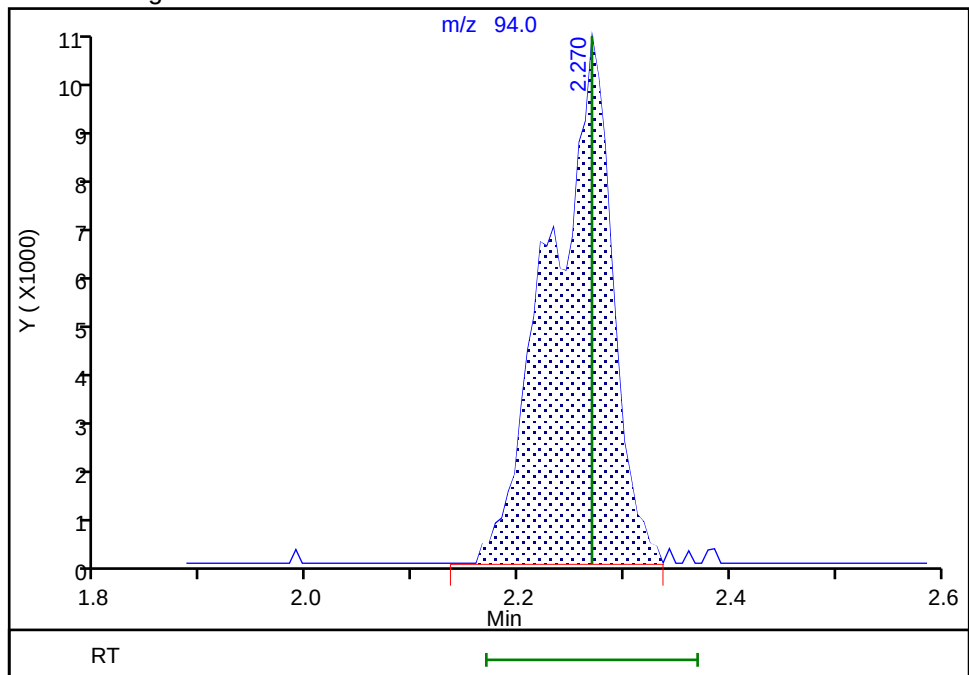
RT: 2.27
Area: 28397
Amount: 0.847332
Amount Units: ug/l

Processing Integration Results



RT: 2.27
Area: 44768
Amount: 1.027354
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:27:37 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

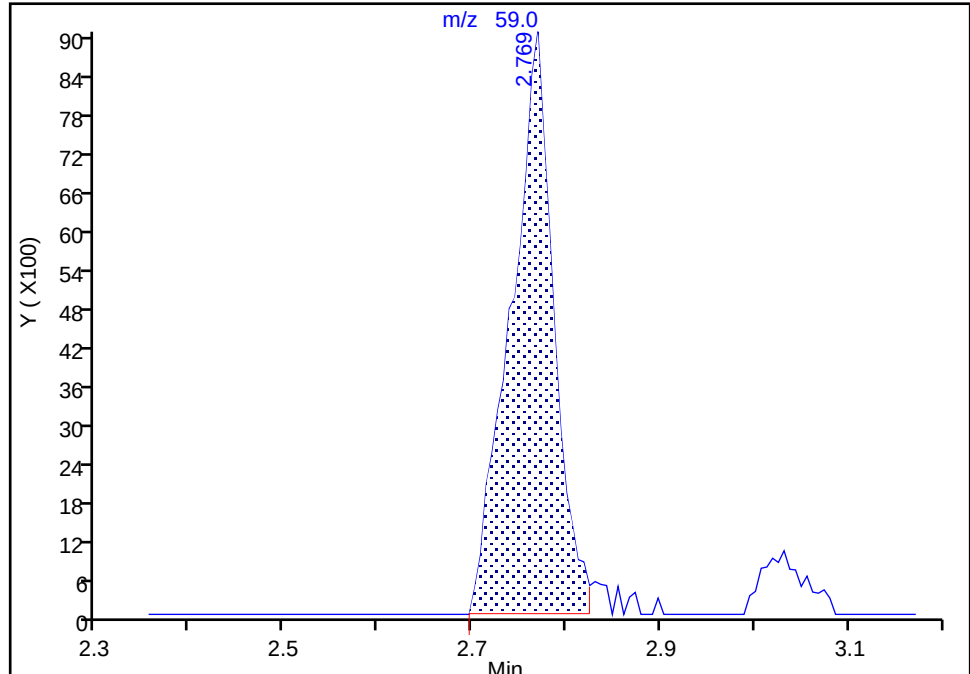
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X14.D
Injection Date: 03-Dec-2024 16:50:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

13 Ethyl ether, CAS: 60-29-7

Signal: 1

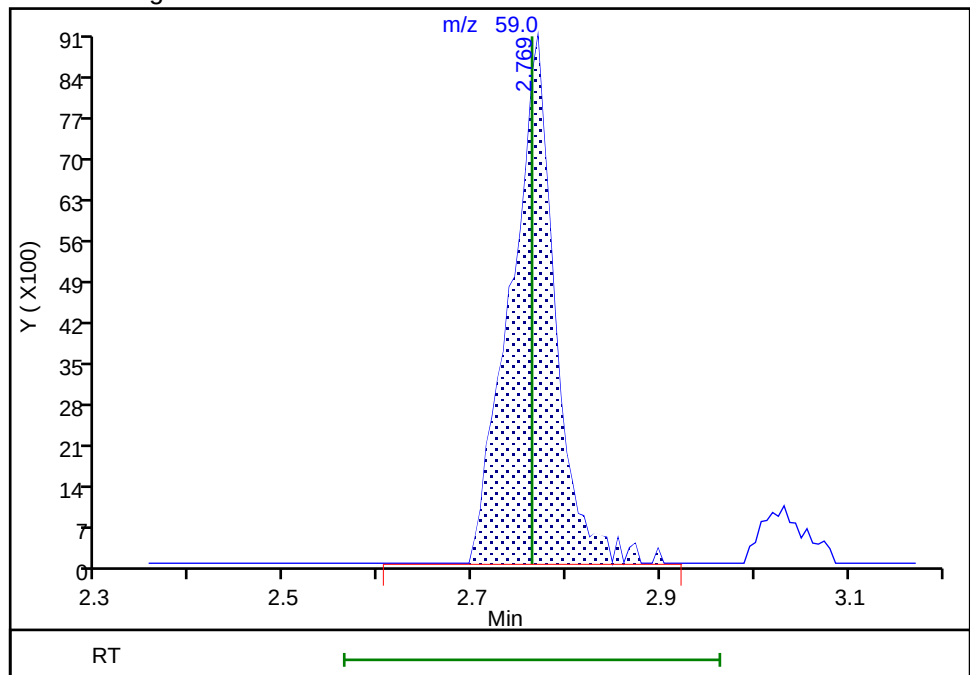
RT: 2.77
Area: 28571
Amount: 1.056503
Amount Units: ug/l

Processing Integration Results



RT: 2.77
Area: 29561
Amount: 1.087424
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:14:40 -05:00:00 (UTC)

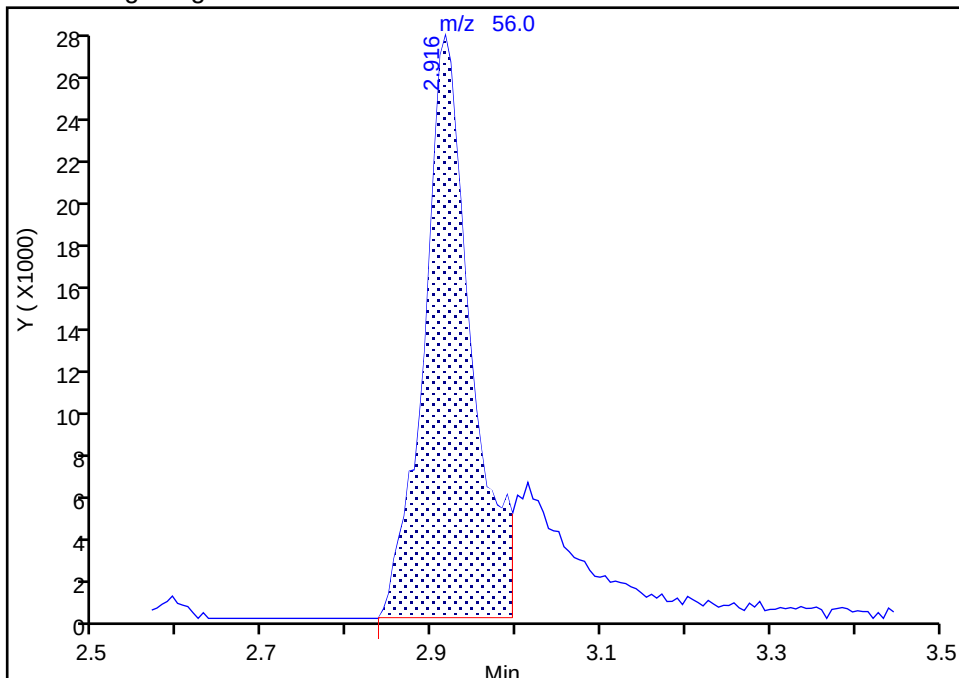
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

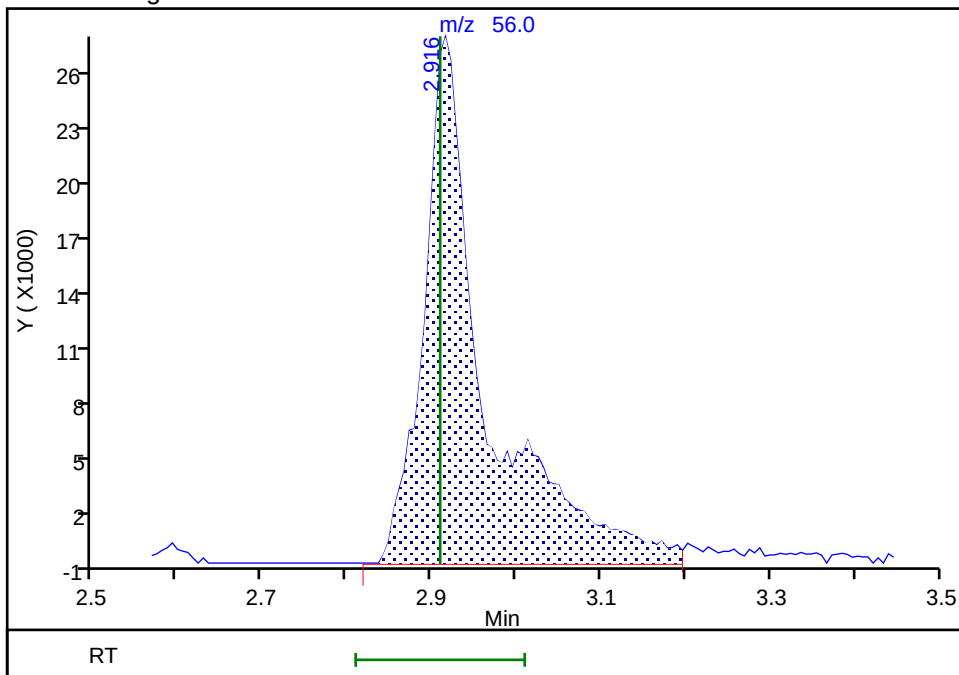
Data File:	\\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X14.D				
Injection Date:	03-Dec-2024 16:50:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm i.d. x 30m)	Detector:	MS Quad		

Signal: 1

RT:	2.92
Area:	105201
Amount:	40.334869
Amount Units:	ug/l



RT: 2.92
Area: 137133
Amount: 48.083538
Amount Units: ug/l



Eurofins Lancaster Laboratories Environment Testing, LLC

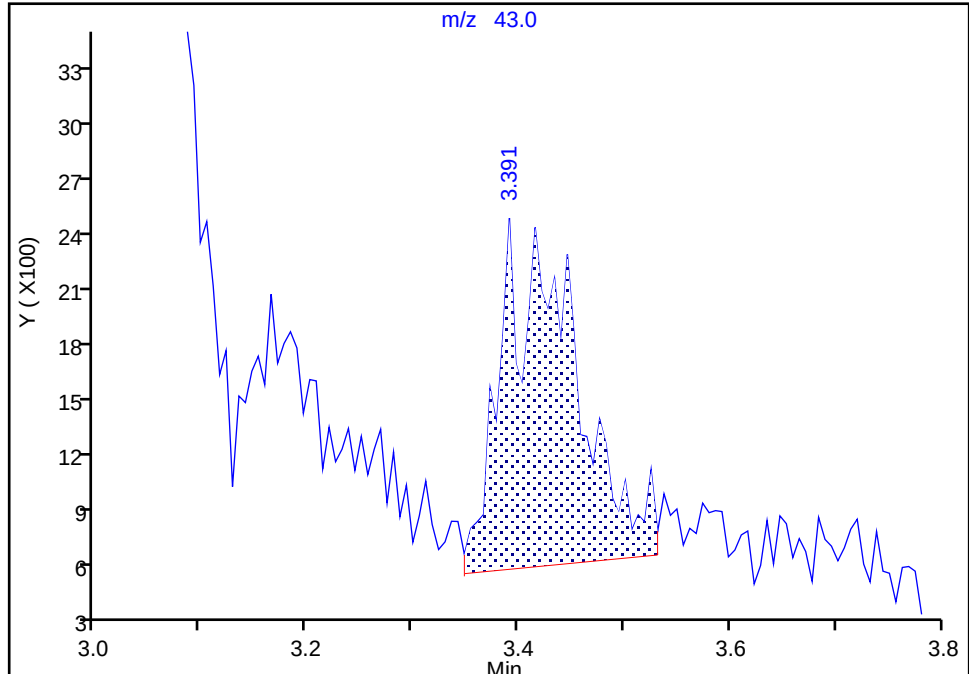
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X14.D
Injection Date: 03-Dec-2024 16:50:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Methyl acetate, CAS: 79-20-9

Signal: 1

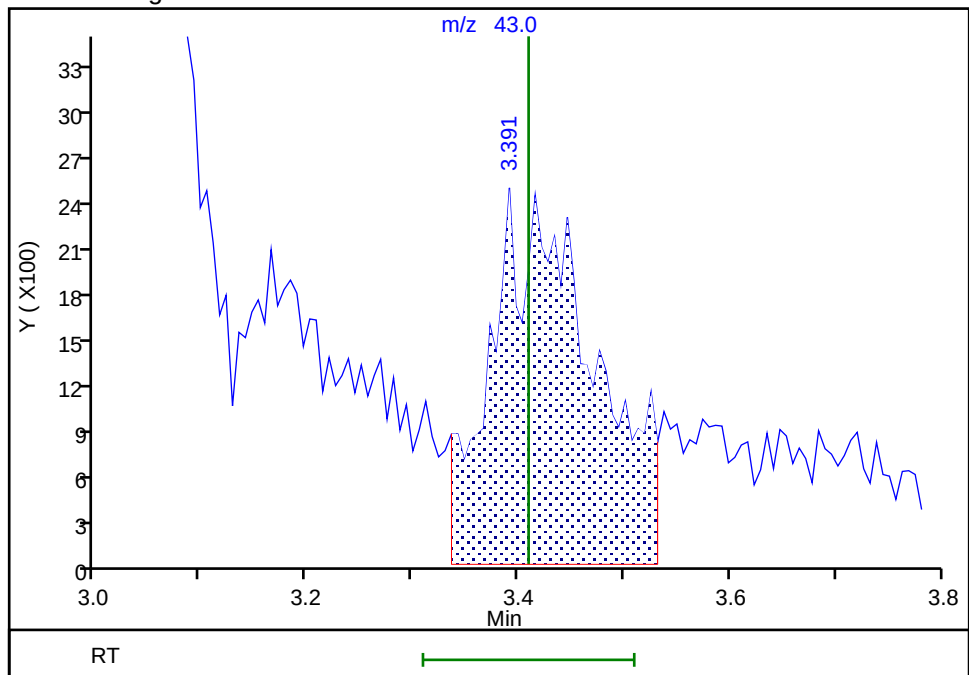
RT: 3.39
Area: 9066
Amount: 0.891993
Amount Units: ug/l

Processing Integration Results



RT: 3.39
Area: 16764
Amount: 0.982126
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:32:37 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Shouldering

Eurofins Lancaster Laboratories Environment Testing, LLC

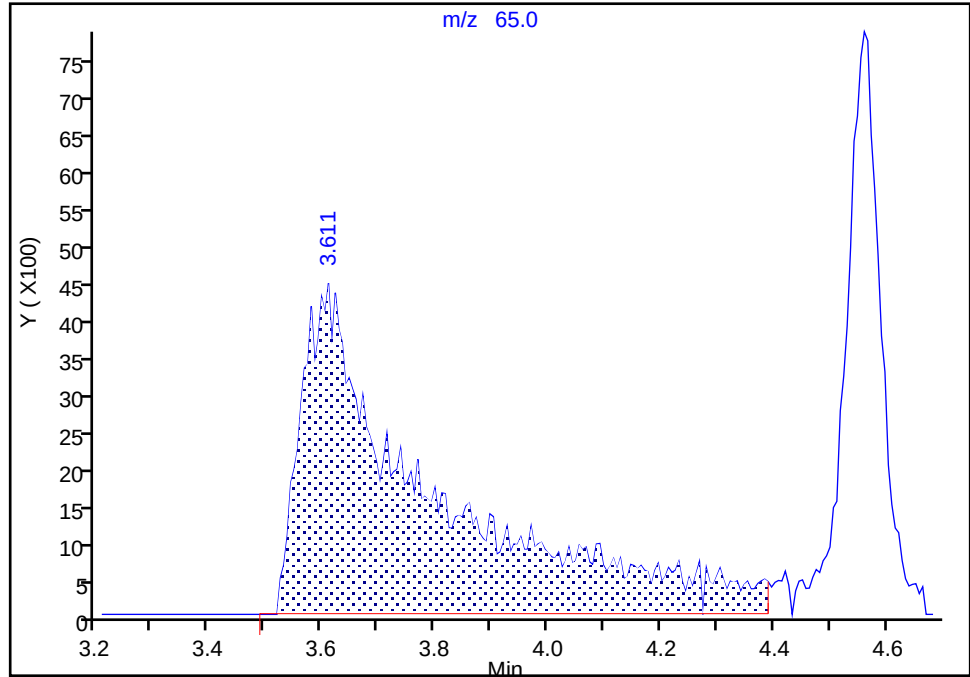
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Injection Date: 03-Dec-2024 16:50:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

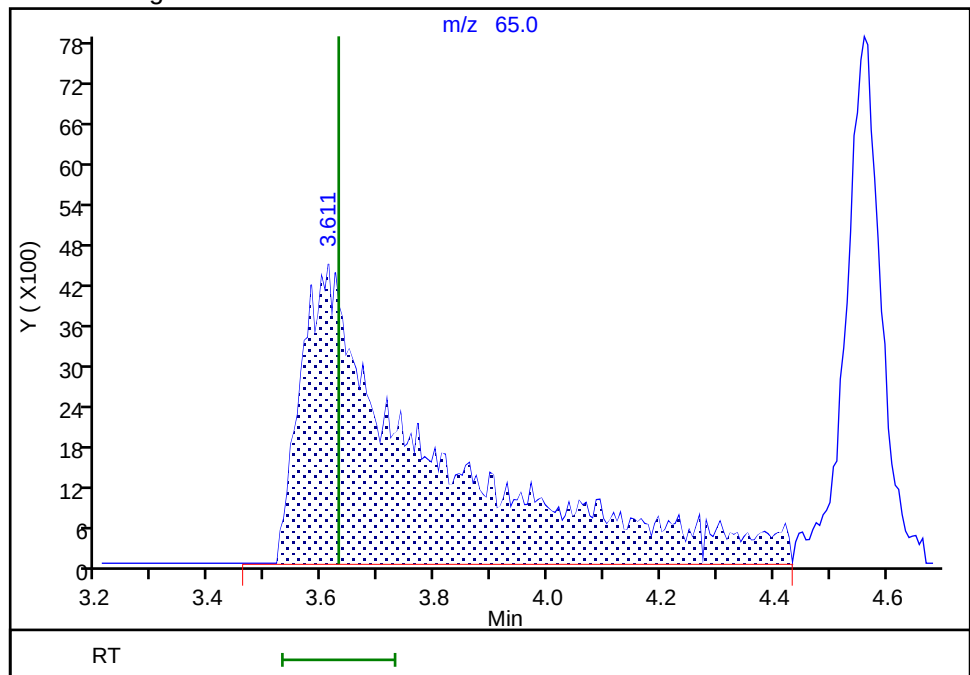
RT: 3.61
Area: 69551
Amount: 49.998300
Amount Units: ug/l

Processing Integration Results



RT: 3.61
Area: 70537
Amount: 49.998300
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:27:51 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

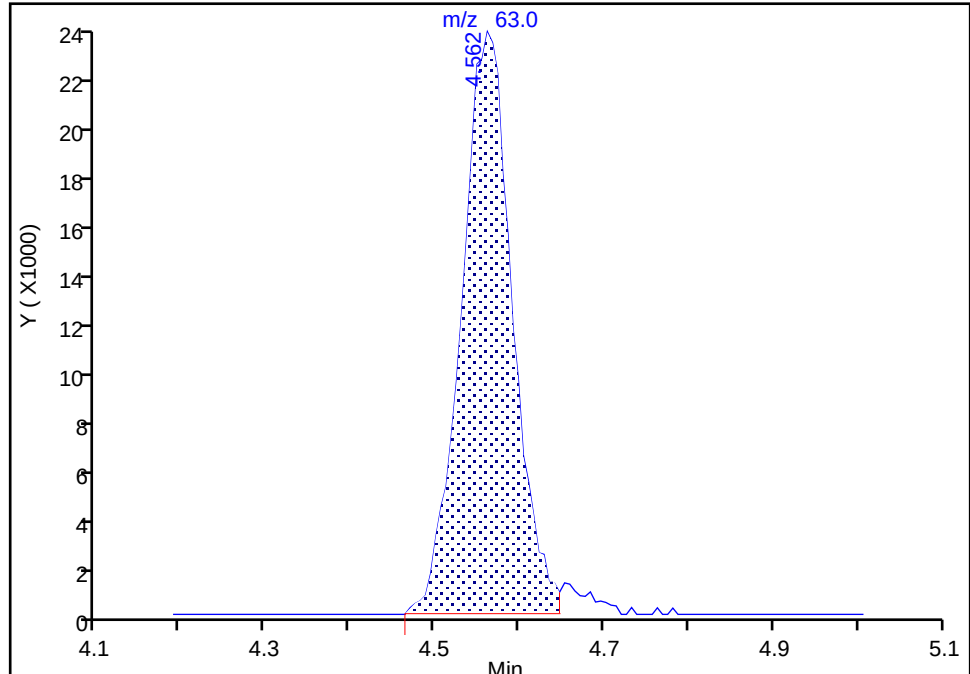
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X14.D
Injection Date: 03-Dec-2024 16:50:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

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

Signal: 1

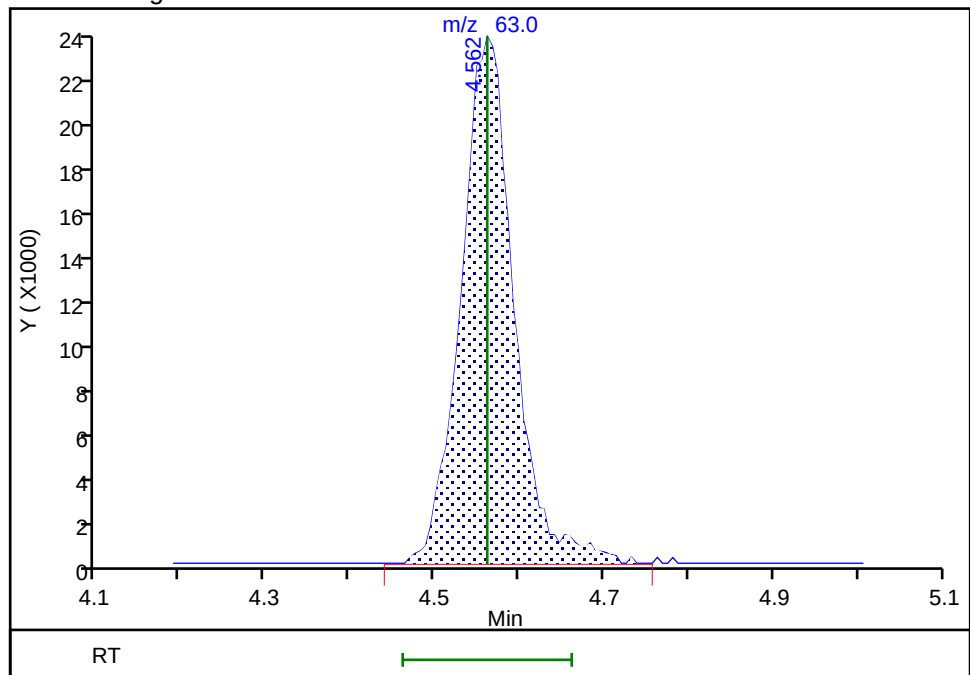
RT: 4.56
Area: 97478
Amount: 1.058013
Amount Units: ug/l

Processing Integration Results



RT: 4.56
Area: 100480
Amount: 1.085543
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:14:57 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

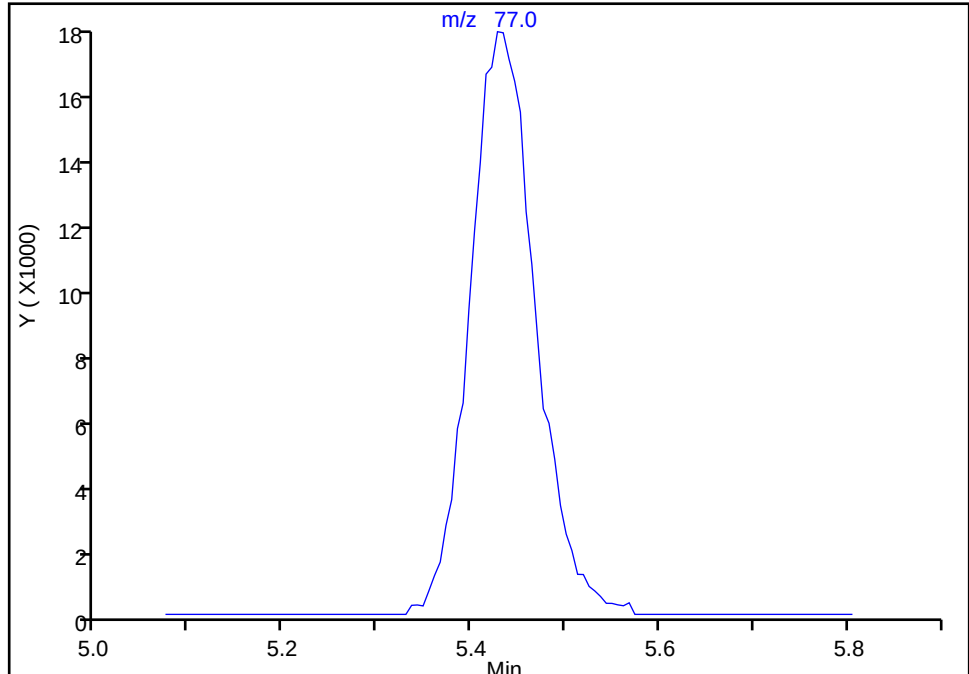
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X14.D
Injection Date: 03-Dec-2024 16:50:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

43 2,2-Dichloropropane, CAS: 594-20-7

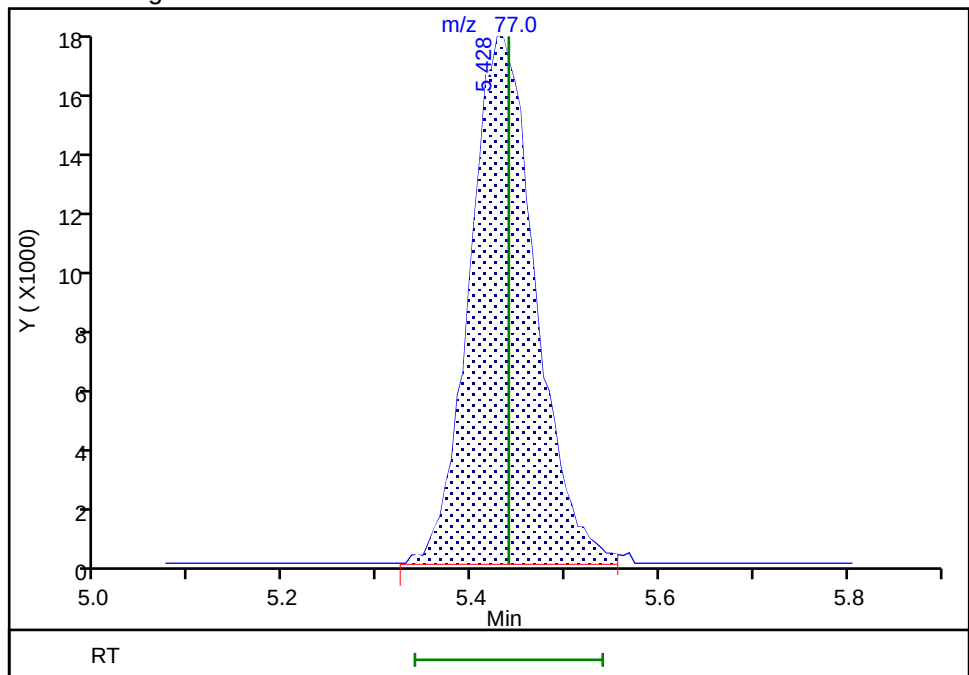
Signal: 1

Not Detected
Expected RT: 5.44

Processing Integration Results



Manual Integration Results



RT: 5.43
Area: 84869
Amount: 1.076993
Amount Units: ug/l

Reviewer: DVW2, 04-Dec-2024 08:12:36 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

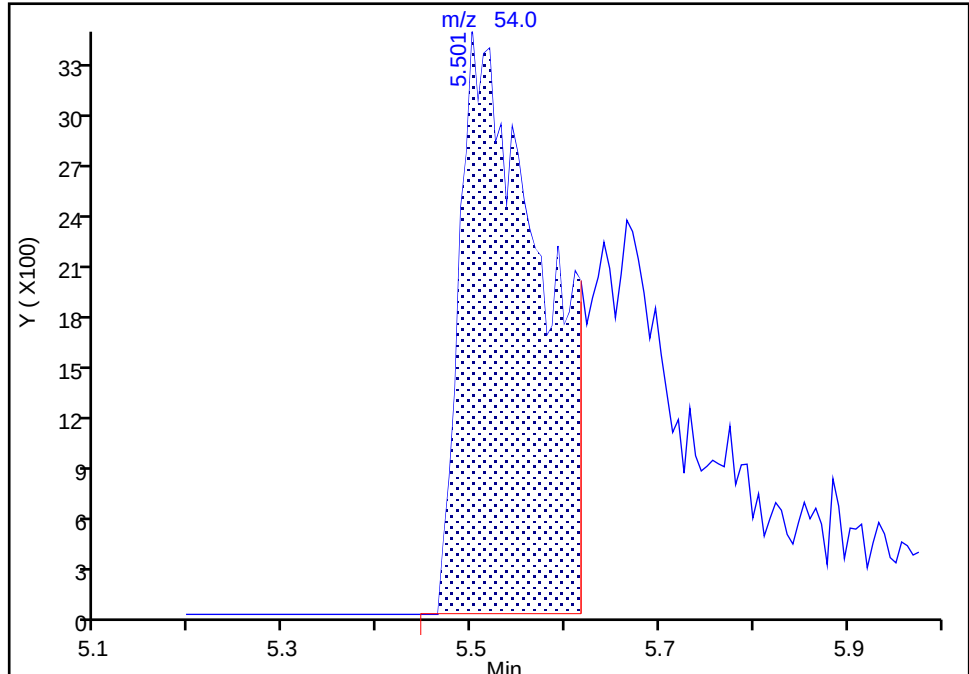
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X14.D
Injection Date: 03-Dec-2024 16:50:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

45 Propionitrile, CAS: 107-12-0

Signal: 1

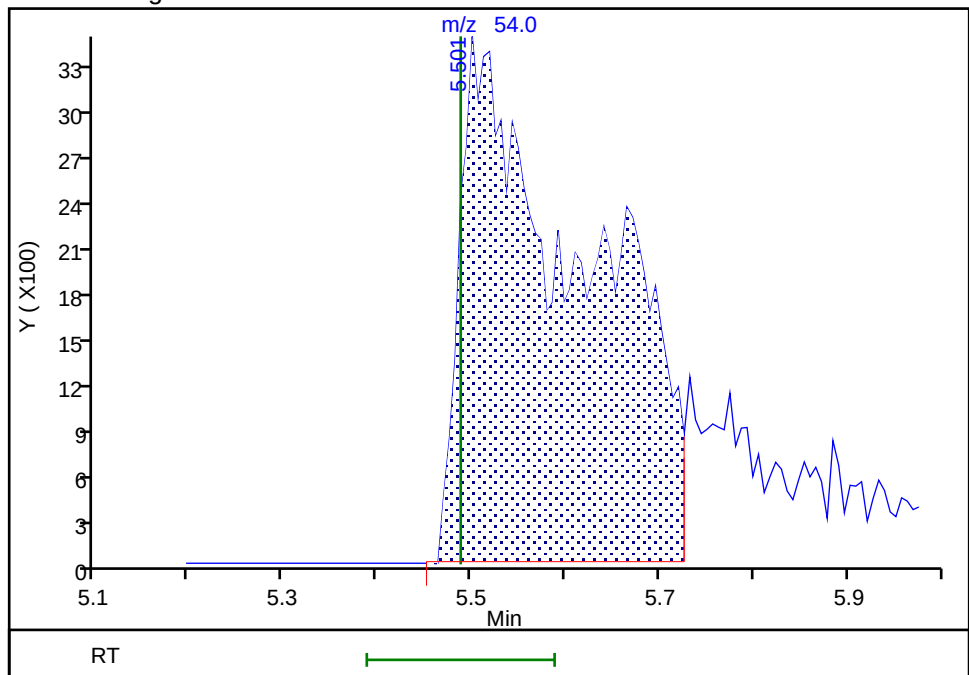
RT: 5.50
Area: 20631
Amount: 15.041442
Amount Units: ug/l

Processing Integration Results



RT: 5.50
Area: 32020
Amount: 19.515408
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:28:08 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

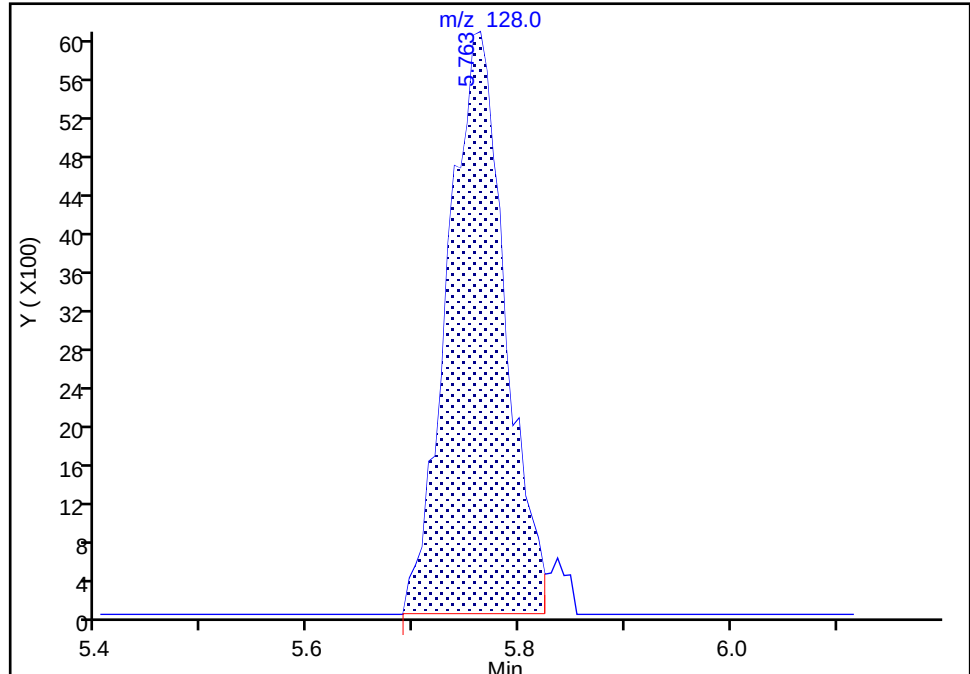
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X14.D
Injection Date: 03-Dec-2024 16:50:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

49 Chlorobromomethane, CAS: 74-97-5

Signal: 1

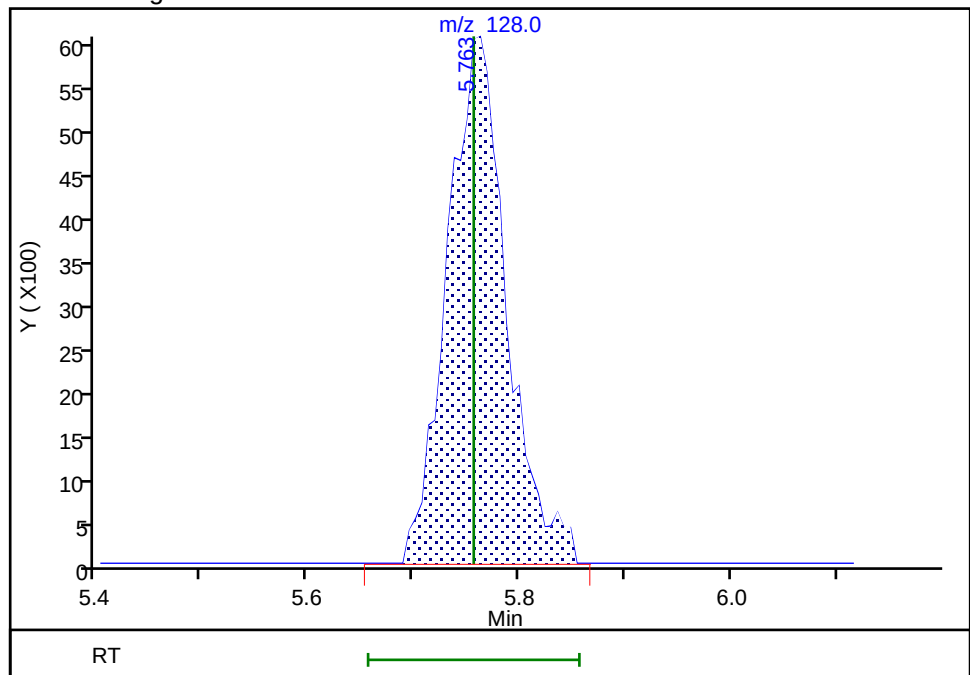
RT: 5.76
Area: 22830
Amount: 1.093836
Amount Units: ug/l

Processing Integration Results



RT: 5.76
Area: 23499
Amount: 1.120757
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:15:08 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

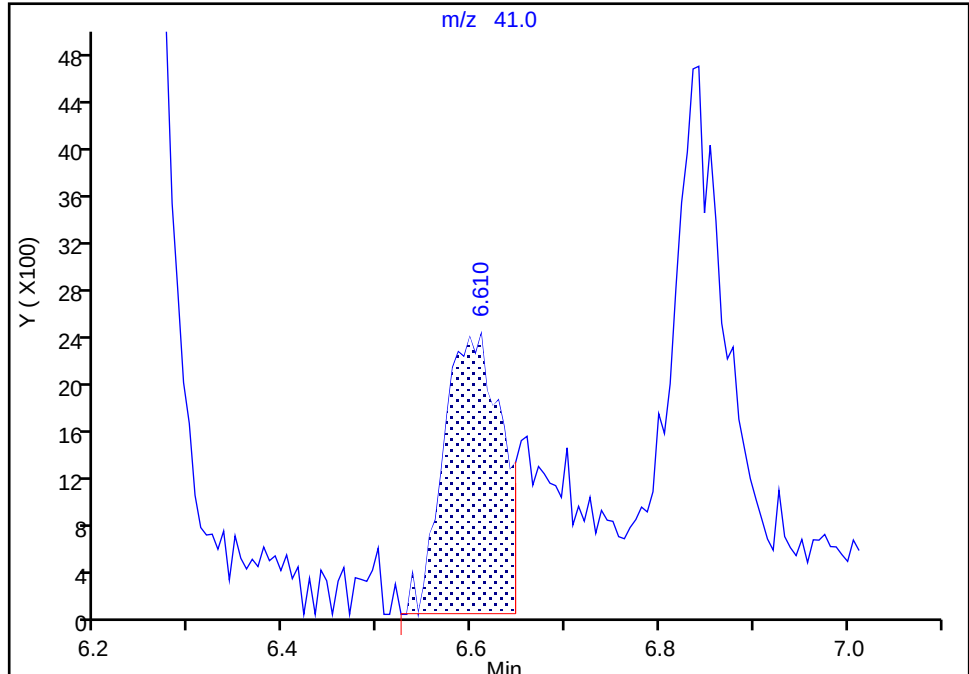
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X14.D
Injection Date: 03-Dec-2024 16:50:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

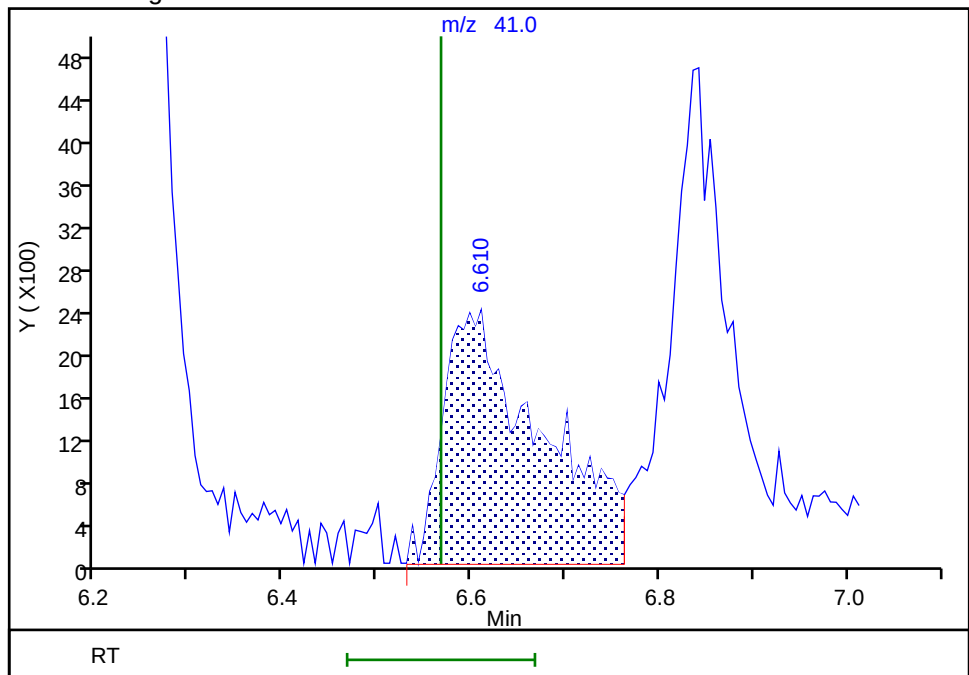
RT: 6.61
Area: 10343
Amount: 31.344592
Amount Units: ug/l

Processing Integration Results



RT: 6.61
Area: 17367
Amount: 49.613515
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:37:51 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

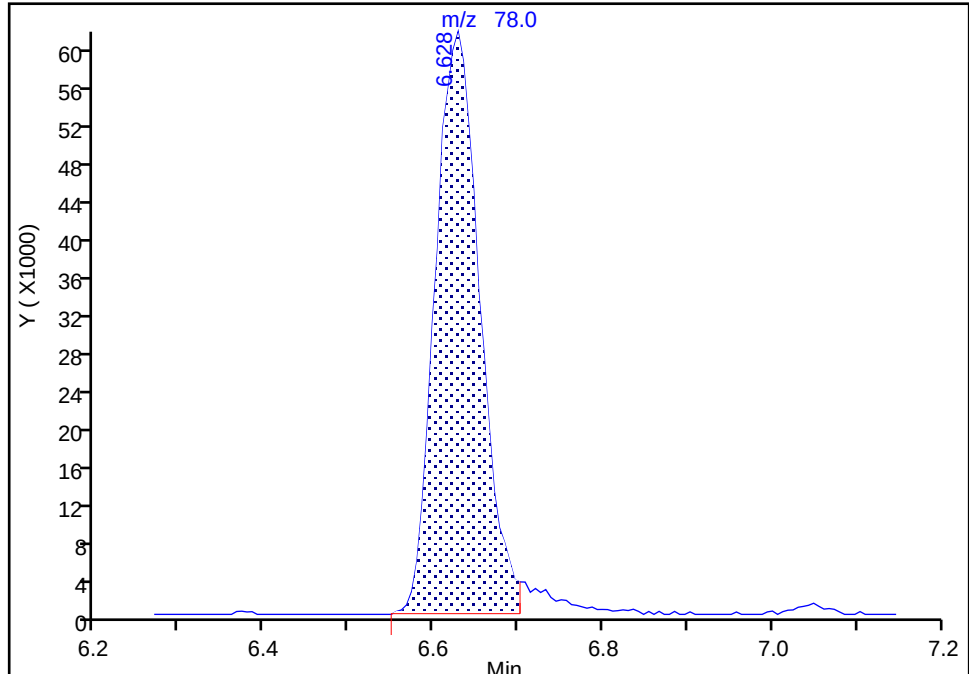
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X14.D
Injection Date: 03-Dec-2024 16:50:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

60 Benzene, CAS: 71-43-2

Signal: 1

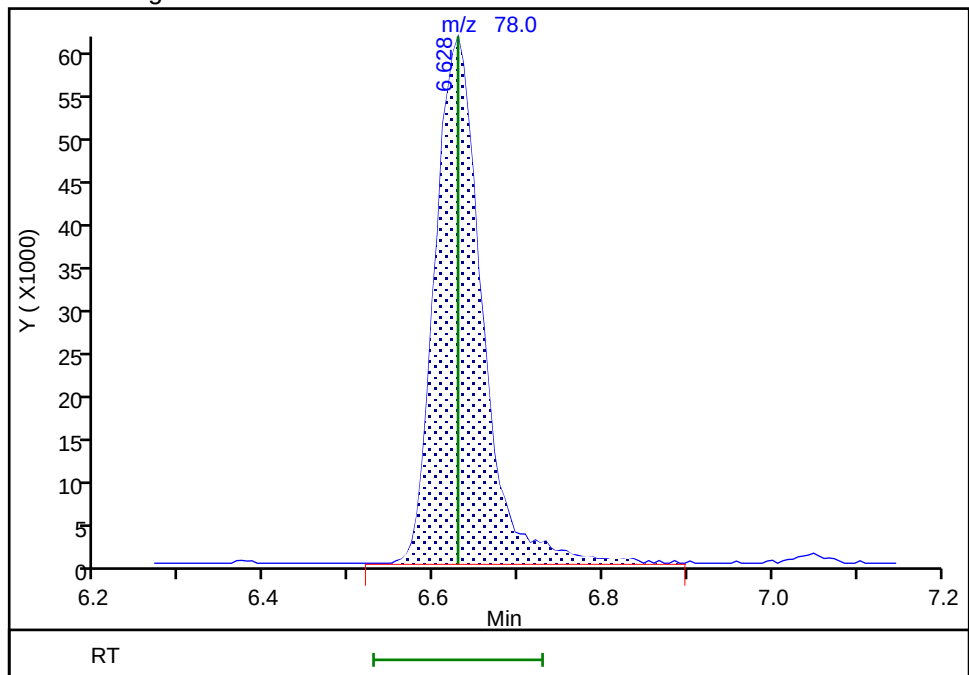
RT: 6.63
Area: 227284
Amount: 1.069740
Amount Units: ug/l

Processing Integration Results



RT: 6.63
Area: 237860
Amount: 1.111612
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:15:20 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

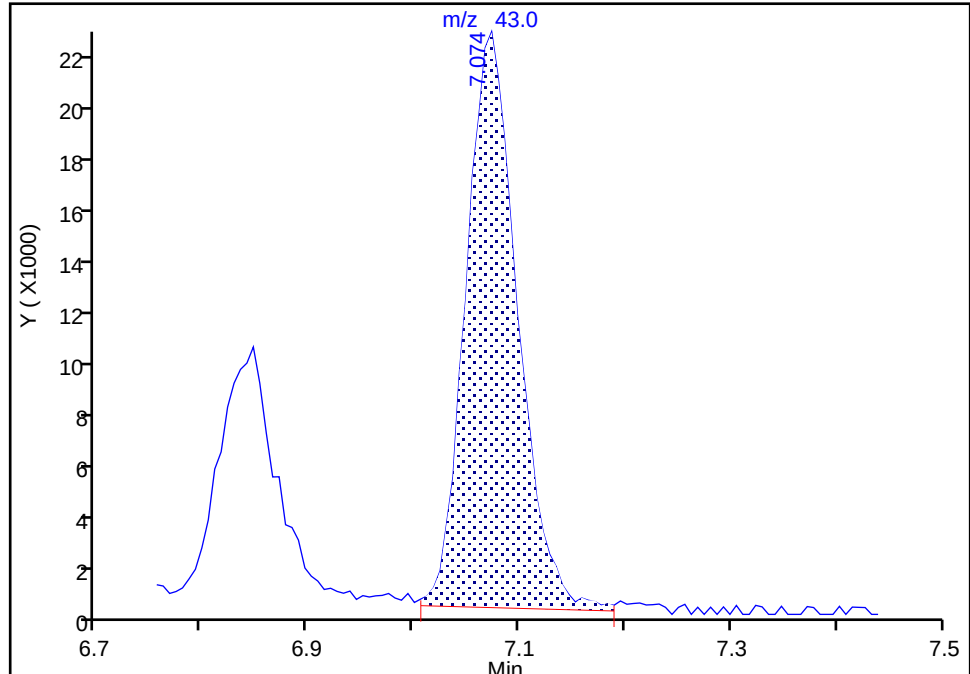
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X14.D
Injection Date: 03-Dec-2024 16:50:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

65 n-Heptane, CAS: 142-82-5

Signal: 1

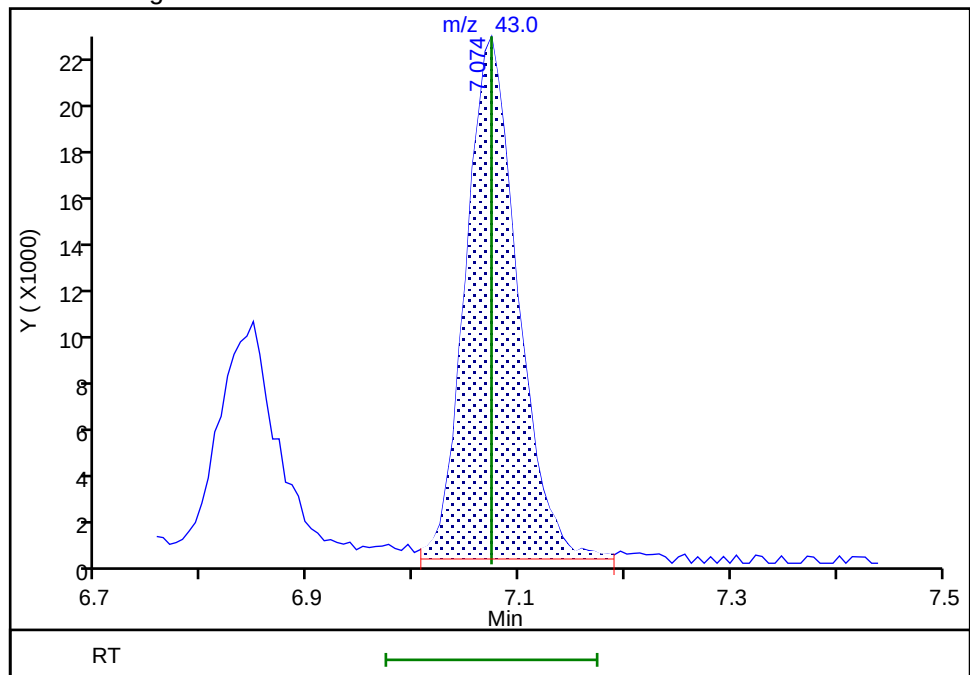
RT: 7.07
Area: 75441
Amount: 1.151686
Amount Units: ug/l

Processing Integration Results



RT: 7.07
Area: 75912
Amount: 1.157687
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:15:47 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

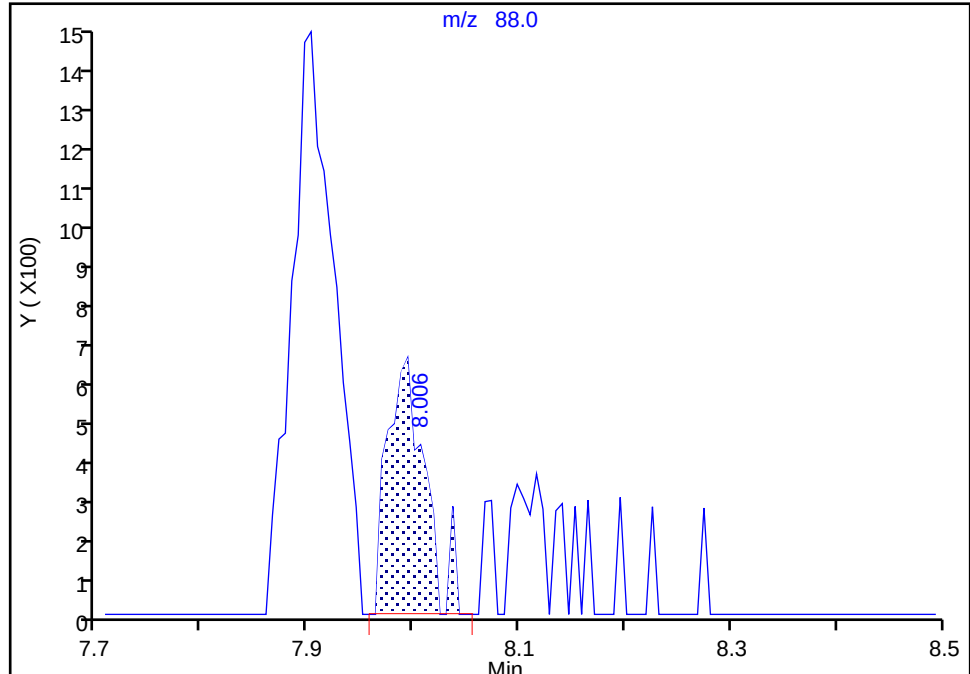
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X14.D
Injection Date: 03-Dec-2024 16:50:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

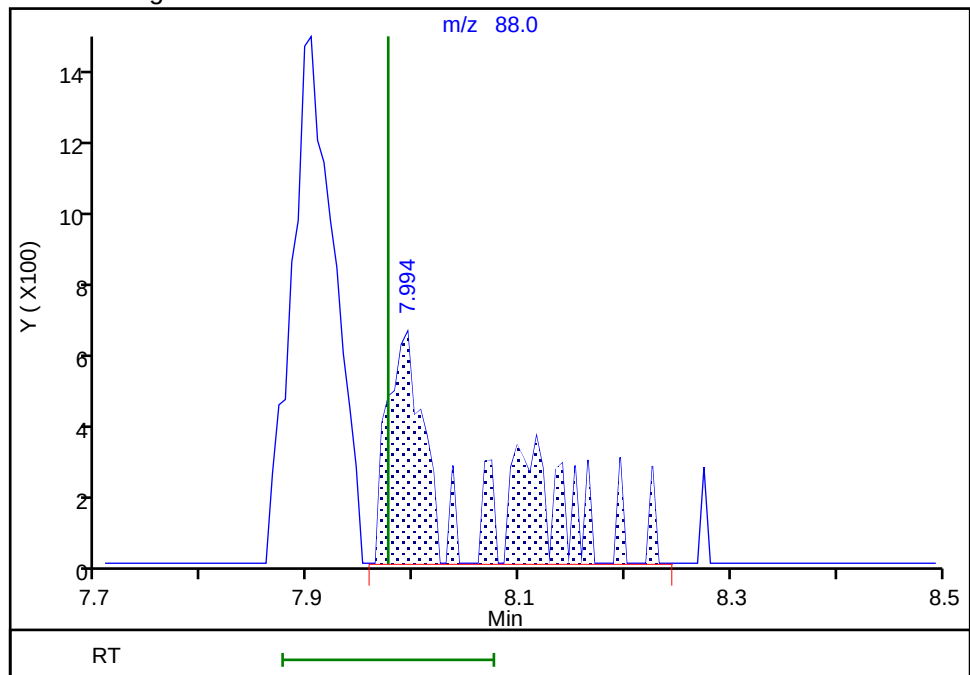
RT: 8.01
Area: 1584
Amount: 35.446021
Amount Units: ug/l

Processing Integration Results



RT: 7.99
Area: 3051
Amount: 33.834378
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:28:24 -05:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

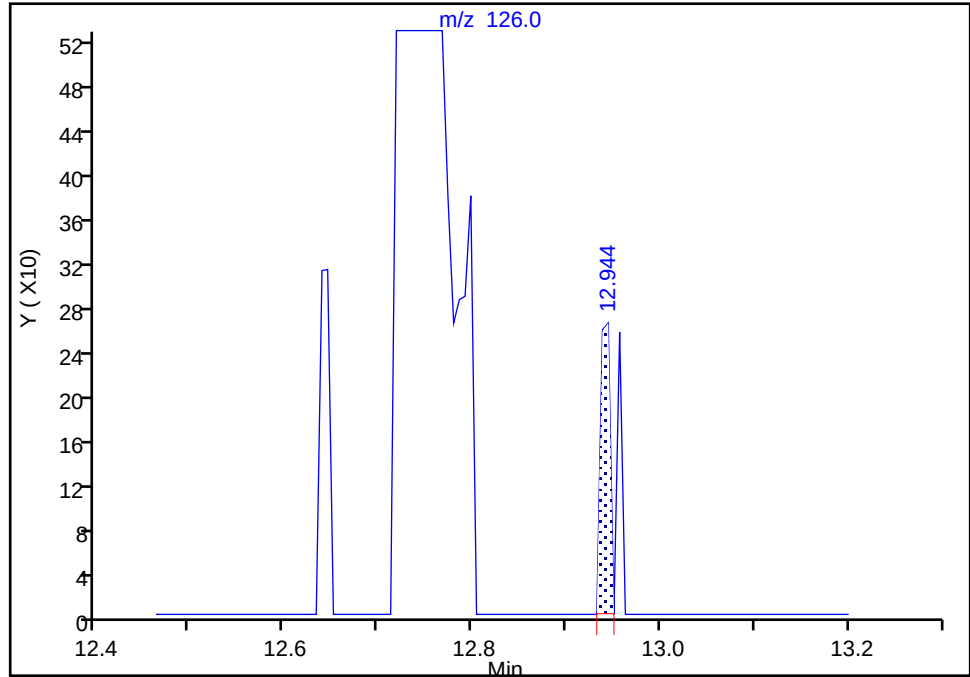
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Injection Date: 03-Dec-2024 16:50:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

145 Benzyl chloride, CAS: 100-44-7

Signal: 1

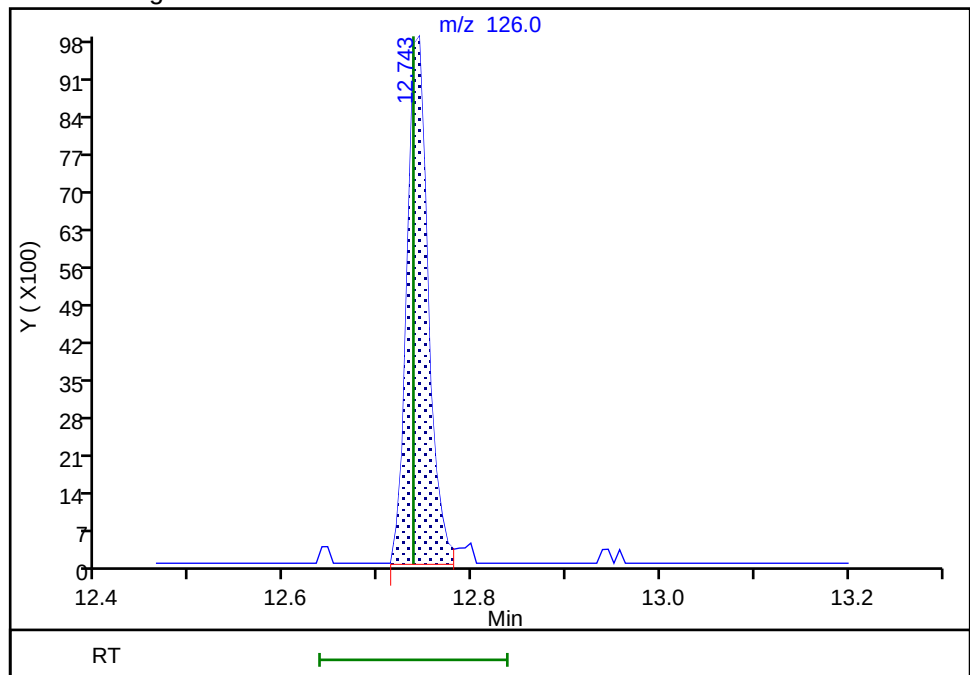
RT: 12.94
Area: 189
Amount: 0.713118
Amount Units: ug/l

Processing Integration Results



RT: 12.74
Area: 15322
Amount: 1.079485
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:11:30 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X15.D
 Lims ID: IC std4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 03-Dec-2024 17:12:30 ALS Bottle#: 5 Worklist Smp#: 16
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0132221-016
 Misc. Info.: IC STD4
 Operator ID: knk41612 Instrument ID: 16334
 Sublist: chrom-MSV_16334_25mL*sub4
 Method: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Dec-2024 09:42:22 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1610

First Level Reviewer: DVW2

Date: 04-Dec-2024 08:11:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.709	1.709	0.000	99	137378	2.00	2.04	
5 Chloromethane	50	1.879	1.879	0.000	99	150363	2.00	1.86	
7 Butadiene	39	1.965	1.965	0.000	90	140482	2.00	1.89	
6 Vinyl chloride	62	1.983	1.983	0.000	98	141703	2.00	1.94	
9 Bromomethane	94	2.276	2.276	0.000	93	91161	2.00	1.92	M
10 Chloroethane	64	2.306	2.306	0.000	100	70306	2.00	1.90	
11 Dichlorofluoromethane	67	2.507	2.507	0.000	97	195557	2.00	1.89	
12 Trichlorofluoromethane	101	2.599	2.599	0.000	69	159954	2.00	1.97	
13 Ethyl ether	59	2.769	2.769	0.000	92	55287	2.00	1.86	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.843	2.843	0.000	92	115136	2.00	1.88	
17 Acrolein	56	2.916	2.916	0.000	99	267267	97.6	80.3	M
18 1,1-Dichloroethene	96	3.032	3.032	0.000	97	83145	2.00	1.75	
19 Acetone	43	3.062	3.062	0.000	51	81896	20.0	17.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.068	3.068	0.000	93	94445	2.00	1.89	
21 Isopropyl alcohol	45	3.196	3.196	0.000	26	20179	40.0	37.7	M
22 Iodomethane	142	3.190	3.190	0.000	99	164518	2.00	1.79	
23 Ethyl bromide	108	3.214	3.214	0.000	98	82800	2.00	1.98	
24 Carbon disulfide	76	3.282	3.282	0.000	99	314180	2.00	1.80	
25 Methyl acetate	43	3.422	3.422	0.000	23	34355	2.00	1.72	M
27 3-Chloro-1-propene	41	3.422	3.422	0.000	93	144711	2.00	1.75	
29 Methylene Chloride	84	3.580	3.580	0.000	91	93343	2.00	1.78	
* 30 t-Butyl alcohol-d10 (IS)	65	3.635	3.635	0.000	99	82323	50.0	50.0	M
31 2-Methyl-2-propanol	59	3.714	3.714	0.000	82	35274	40.0	36.5	
32 Acrylonitrile	53	3.909	3.909	0.000	33	27235	5.00	4.21	M
33 Methyl tert-butyl ether	73	3.940	3.940	0.000	94	187942	2.00	1.77	
34 trans-1,2-Dichloroethene	96	3.934	3.934	0.000	98	99262	2.00	1.78	
35 Hexane	57	4.336	4.336	0.000	93	135673	2.00	1.86	
37 1,1-Dichloroethane	63	4.562	4.562	0.000	96	182173	2.00	1.80	
38 Isopropyl ether	45	4.641	4.641	0.000	93	282318	2.00	1.78	
39 2-Chloro-1,3-butadiene	53	4.684	4.684	0.000	91	137210	2.00	1.77	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.184	5.184	0.000	97	244342	2.00	1.75	
41 2-Butanone (MEK)	43	5.403	5.403	0.000	100	140109	20.0	17.3	
42 cis-1,2-Dichloroethene	96	5.421	5.421	0.000	82	109432	2.00	1.79	
43 2,2-Dichloropropane	77	5.427	5.427	0.000	86	153705	2.00	1.79	a
45 Propionitrile	54	5.501	5.501	0.000	97	69444	40.0	32.6	M
48 Methacrylonitrile	67	5.696	5.696	0.000	90	164485	20.0	18.8	
49 Chlorobromomethane	128	5.763	5.763	0.000	94	42653	2.00	1.86	
50 Tetrahydrofuran	71	5.769	5.769	0.000	89	19610	10.0	8.47	
51 Chloroform	83	5.927	5.927	0.000	93	176770	2.00	1.78	
53 1,1,1-Trichloroethane	97	6.141	6.141	0.000	69	156008	2.00	1.78	
\$ 52 Dibromofluoromethane (Surr)	113	6.141	6.141	0.000	93	496451	10.0	10.0	
S 47 1,2-Dichloroethene, Total	100				0			3.57	
54 Cyclohexane	56	6.238	6.238	0.000	91	160495	2.00	1.83	
55 Carbon tetrachloride	117	6.354	6.354	0.000	96	133989	2.00	1.78	
56 1,1-Dichloropropene	75	6.366	6.366	0.000	97	137040	2.00	1.75	
58 Isobutyl alcohol	41	6.592	6.592	0.000	32	32401	100.0	84.7	M
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.598	6.598	0.000	84	95195	10.0	10.0	
60 Benzene	78	6.628	6.628	0.000	95	409760	2.00	1.75	
61 1,2-Dichloroethane	62	6.702	6.702	0.000	97	94042	2.00	1.76	
63 Tert-amyl methyl ether	73	6.842	6.842	0.000	99	205886	2.00	1.77	
* 64 Fluorobenzene (IS)	96	7.049	7.049	0.000	99	2105483	10.0	10.0	
65 n-Heptane	43	7.073	7.073	0.000	91	134127	2.00	1.87	
67 n-Butanol	56	7.512	7.512	0.000	90	33736	175.0	136.8	
68 Trichloroethene	95	7.537	7.537	0.000	99	106268	2.00	1.77	
69 Methylcyclohexane	83	7.842	7.842	0.000	89	169456	2.00	1.84	
70 1,2-Dichloropropane	63	7.866	7.866	0.000	97	100818	2.00	1.78	
71 2-ethoxy-2-methyl butane	87	7.909	7.909	0.000	94	144400	2.00	1.77	
73 1,4-Dioxane	88	7.988	7.988	0.000	30	10948	100.0	104.0	M
74 Dibromomethane	93	7.982	7.982	0.000	97	39985	2.00	1.72	
72 Methyl methacrylate	69	7.994	7.994	0.000	90	26752	2.00	1.61	
76 Dichlorobromomethane	83	8.232	8.232	0.000	99	115539	2.00	1.78	
77 2-Nitropropane	41	8.512	8.512	0.000	99	40397	10.0	7.99	
79 1-Bromo-2-chloroethane	63	8.622	8.622	0.000	99	95842	2.00	1.97	
81 cis-1,3-Dichloropropene	75	8.805	8.805	0.000	97	141369	2.00	1.78	
82 4-Methyl-2-pentanone (MIBK)	43	9.012	9.012	0.000	97	375790	20.0	17.9	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	2141117	10.0	10.0	
84 Toluene	92	9.219	9.219	0.000	98	263681	2.00	1.78	
85 trans-1,3-Dichloropropene	75	9.524	9.524	0.000	92	110405	2.00	1.78	
86 Ethyl methacrylate	69	9.616	9.616	0.000	89	61823	2.00	1.65	
107 1,1,2-Trichloroethane	97	9.738	9.738	0.000	91	60075	2.00	1.75	
108 Tetrachloroethene	166	9.823	9.823	0.000	97	118374	2.00	1.77	
109 1,3-Dichloropropane	76	9.908	9.908	0.000	89	106667	2.00	1.80	
110 2-Hexanone	43	9.994	9.994	0.000	96	254724	20.0	17.5	
S 106 1,3-Dichloropropene, Total	100				0			3.55	
112 Chlorodibromomethane	129	10.134	10.134	0.000	90	74298	2.00	1.77	
113 Ethylene Dibromide	107	10.244	10.244	0.000	99	54379	2.00	1.78	
* 114 Chlorobenzene-d5 (IS)	117	10.707	10.707	0.000	86	1541126	10.0	10.0	
116 Chlorobenzene	112	10.731	10.731	0.000	94	295221	2.00	1.77	
115 1-Chlorohexane	91	10.731	10.731	0.000	68	137137	2.00	1.71	
117 1,1,1,2-Tetrachloroethane	131	10.823	10.823	0.000	94	95607	2.00	1.77	
118 Ethylbenzene	91	10.829	10.829	0.000	98	510427	2.00	1.77	
120 m-Xylene & p-Xylene	106	10.951	10.951	0.000	100	395724	4.00	3.55	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 119 Xylenes, Total	106				0			5.34	
121 o-Xylene	106	11.292	11.292	0.000	96	190698	2.00	1.79	
122 Styrene	104	11.310	11.310	0.000	95	285807	2.00	1.77	
123 Bromoform	173	11.463	11.463	0.000	95	37677	2.00	1.74	
124 Isopropylbenzene	105	11.603	11.603	0.000	95	440581	2.00	1.76	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.743	11.743	0.000	89	736681	10.0	9.97	
128 1,1,2,2-Tetrachloroethane	83	11.859	11.859	0.000	66	68960	2.00	1.81	
129 Bromobenzene	156	11.859	11.859	0.000	92	115257	2.00	1.81	
130 trans-1,4-Dichloro-2-butene	53	11.883	11.883	0.000	91	157487	20.0	17.7	
131 1,2,3-Trichloropropane	110	11.902	11.902	0.000	78	18881	2.00	1.86	
132 N-Propylbenzene	91	11.938	11.938	0.000	99	613699	2.00	1.79	
133 2-Chlorotoluene	126	12.012	12.012	0.000	96	122148	2.00	1.79	
134 1,3,5-Trimethylbenzene	105	12.085	12.085	0.000	94	434489	2.00	1.80	
135 4-Chlorotoluene	126	12.109	12.109	0.000	98	128200	2.00	1.82	
136 tert-Butylbenzene	134	12.322	12.322	0.000	93	95235	2.00	1.82	
137 Pentachloroethane	167	12.353	12.353	0.000	79	70509	2.00	1.97	
138 1,2,4-Trimethylbenzene	105	12.371	12.371	0.000	97	448060	2.00	1.81	
139 sec-Butylbenzene	105	12.493	12.493	0.000	94	558971	2.00	1.79	
140 1,3-Dichlorobenzene	146	12.585	12.585	0.000	97	241470	2.00	1.78	
141 4-Isopropyltoluene	119	12.603	12.603	0.000	97	479528	2.00	1.79	
* 142 1,4-Dichlorobenzene-d4	152	12.639	12.639	0.000	95	819702	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.658	12.658	0.000	96	250871	2.00	1.81	
144 1,2,3-Trimethylbenzene	120	12.676	12.676	0.000	99	188654	2.00	1.78	
145 Benzyl chloride	126	12.743	12.743	0.000	98	28456	2.00	1.85	a
146 p-Diethylbenzene	119	12.877	12.877	0.000	93	293822	2.00	1.78	
147 n-Butylbenzene	92	12.895	12.895	0.000	97	248926	2.00	1.82	
148 1,2-Dichlorobenzene	146	12.920	12.920	0.000	98	209056	2.00	1.78	
150 1,2-Dibromo-3-Chloropropane	155	13.469	13.469	0.000	82	8221	2.00	1.86	
151 1,3,5-Trichlorobenzene	180	13.590	13.590	0.000	97	187427	2.00	1.76	
152 1,2,4-Trichlorobenzene	180	14.017	14.017	0.000	95	146334	2.00	1.72	
153 Hexachlorobutadiene	225	14.103	14.103	0.000	97	81623	2.00	1.76	
154 Naphthalene	128	14.194	14.194	0.000	97	200805	2.00	1.77	
155 1,2,3-Trichlorobenzene	180	14.334	14.334	0.000	96	117115	2.00	1.77	
156 2-Methylnaphthalene	142	14.919	14.919	0.000	91	90469	2.00	1.68	
167 Pentane	43	2.769	2.769	0.000	42	6874	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00155	Amount Added: 2.00	Units: uL	
MSV_LL_#2_826_00163	Amount Added: 2.00	Units: uL	
MSV_LL_GAS826_00247	Amount Added: 2.00	Units: uL	
MSV_29_826ISS_00057	Amount Added: 1.20	Units: uL	Run Reagent

Report Date: 09-Dec-2024 09:42:24

Chrom Revision: 2.3 12-Nov-2024 16:55:22

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X15.D

Injection Date: 03-Dec-2024 17:12:30

Instrument ID: 16334

Operator ID: knk41612

Lims ID: IC std4

Worklist Smp#: 16

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

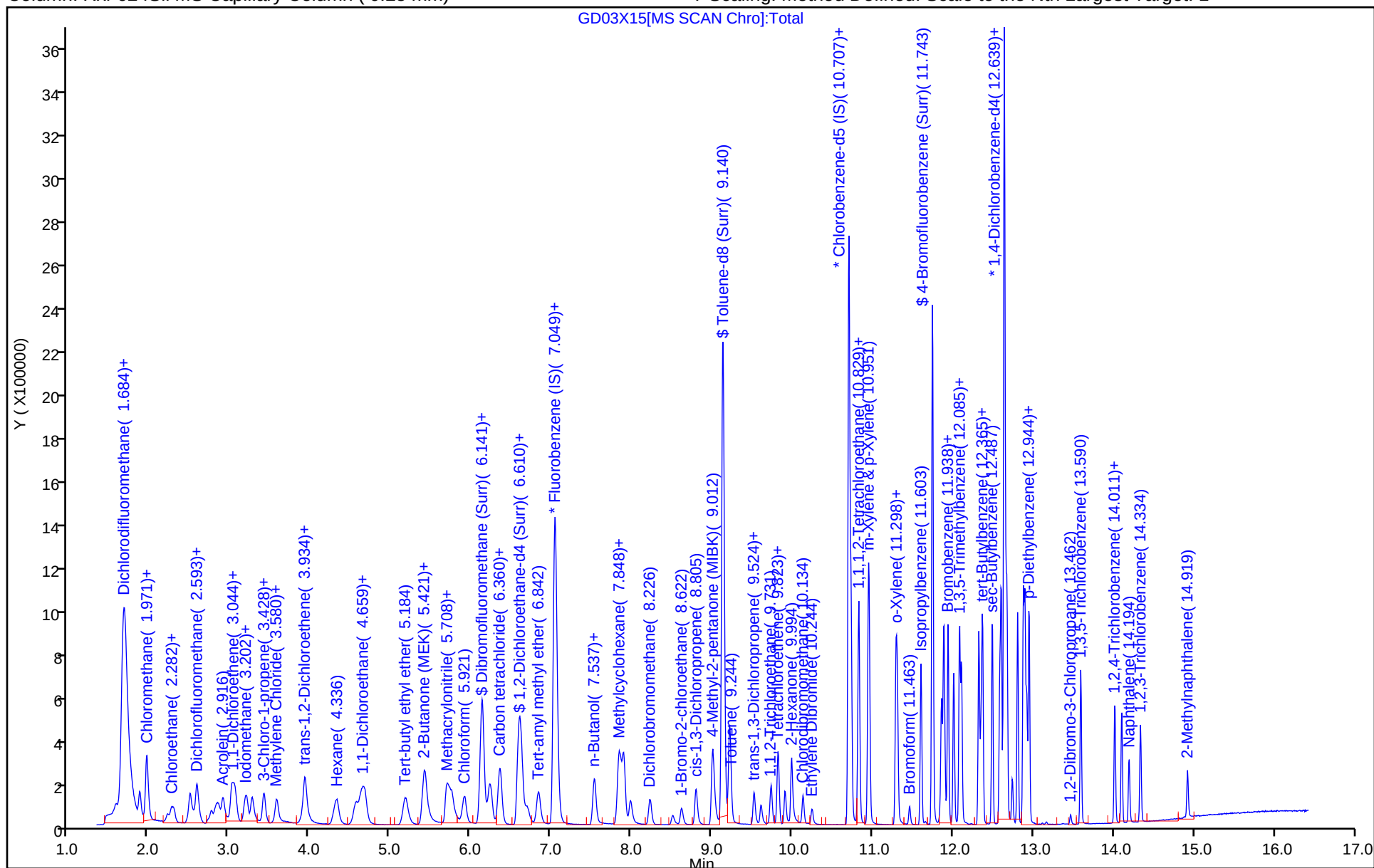
ALS Bottle#: 5

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

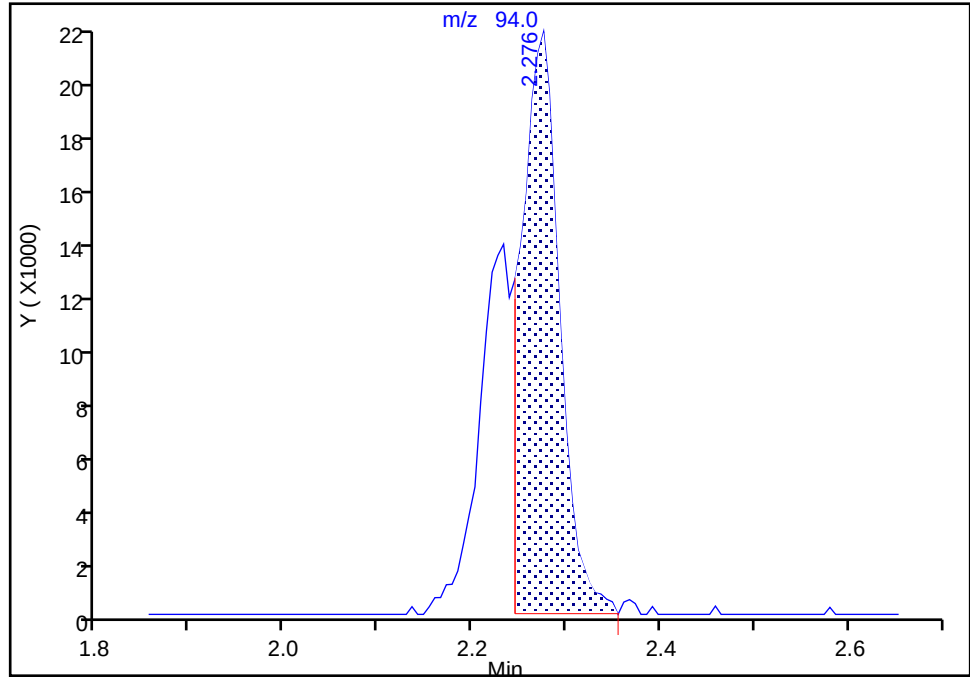
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Injection Date: 03-Dec-2024 17:12:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

9 Bromomethane, CAS: 74-83-9

Signal: 1

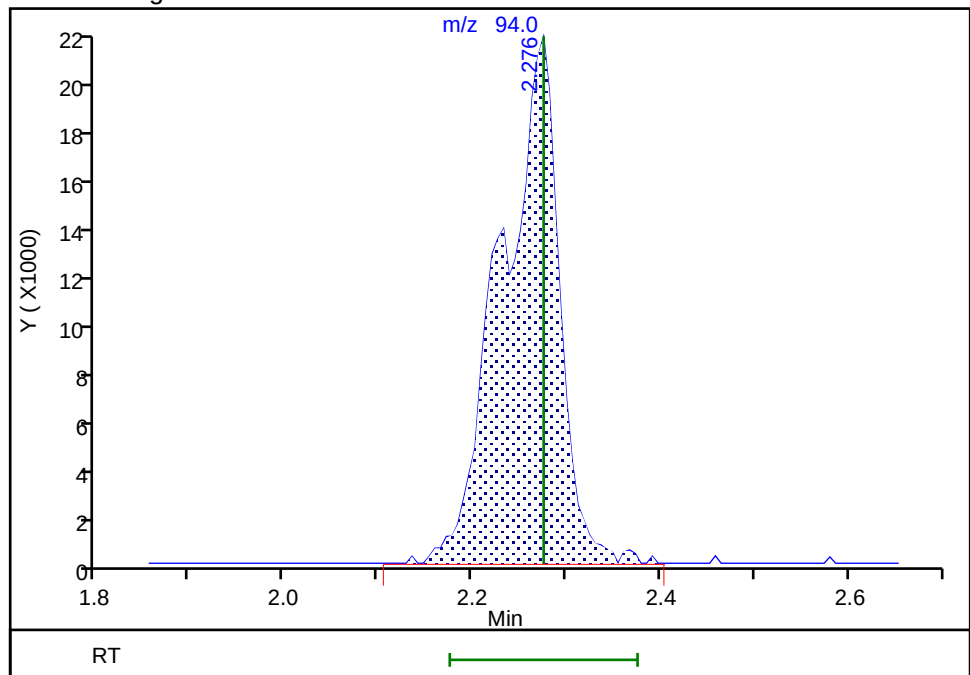
RT: 2.28
Area: 59606
Amount: 1.735074
Amount Units: ug/l

Processing Integration Results



RT: 2.28
Area: 91161
Amount: 1.915183
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:19:25 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

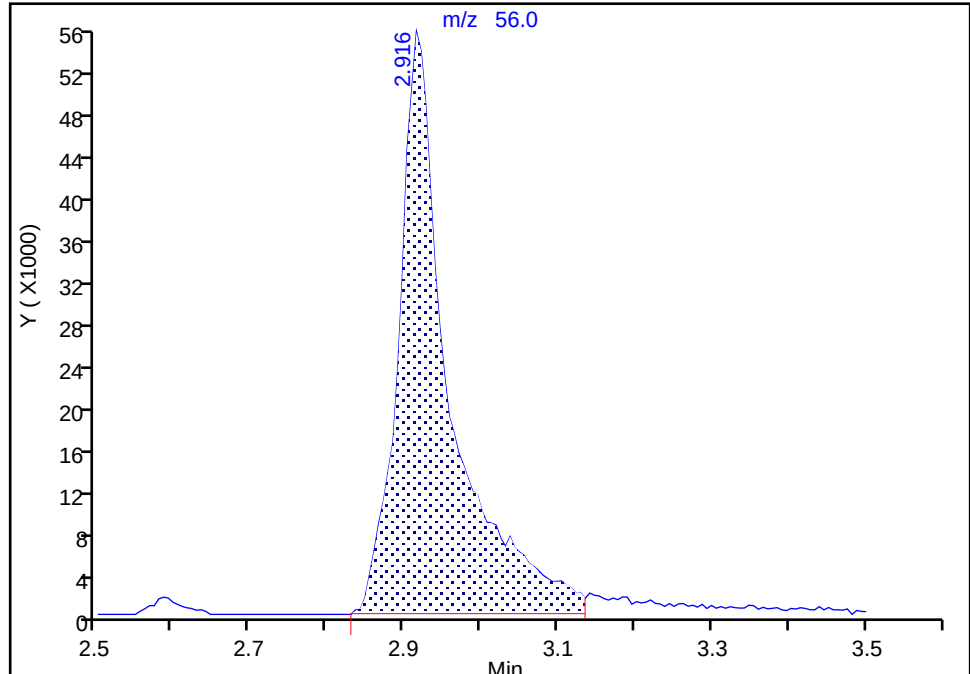
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Injection Date: 03-Dec-2024 17:12:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

17 Acrolein, CAS: 107-02-8

Signal: 1

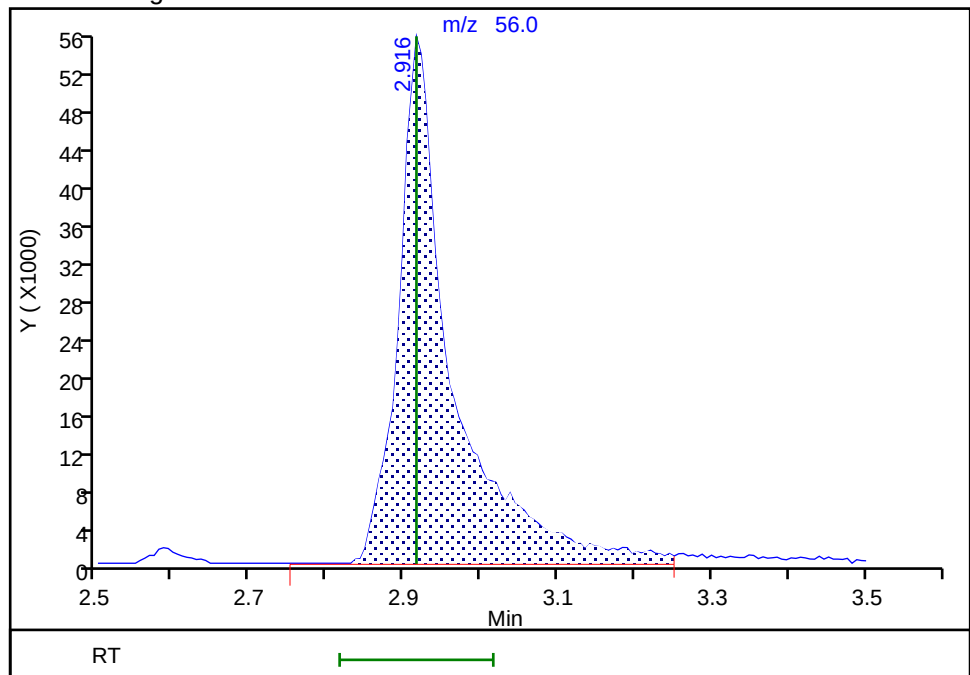
RT: 2.92
Area: 258704
Amount: 85.339852
Amount Units: ug/l

Processing Integration Results



RT: 2.92
Area: 267267
Amount: 80.296308
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:42:00 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

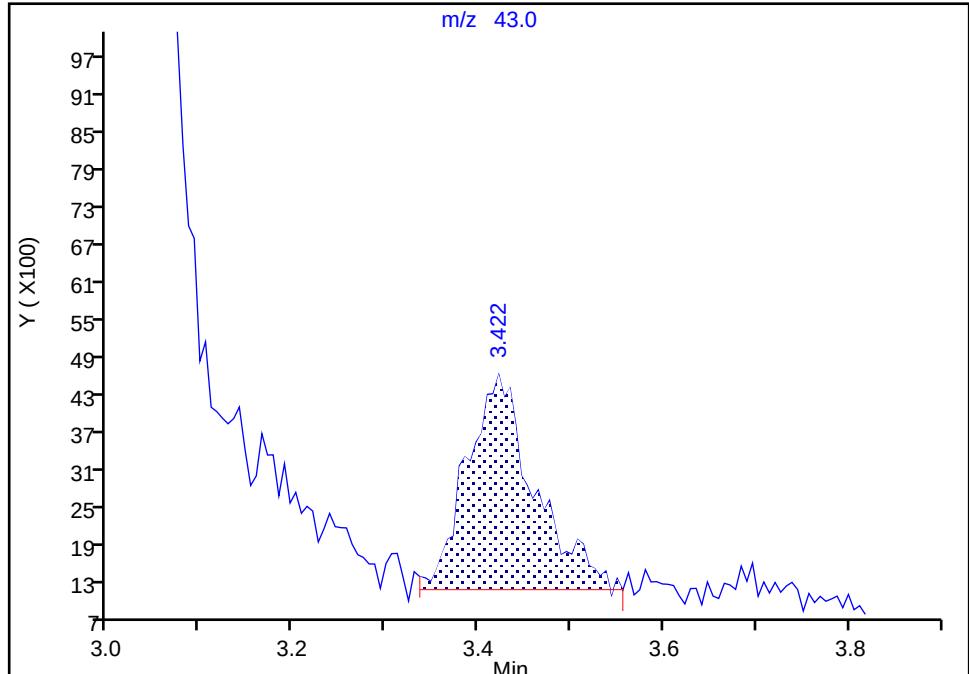
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Injection Date: 03-Dec-2024 17:12:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

25 Methyl acetate, CAS: 79-20-9

Signal: 1

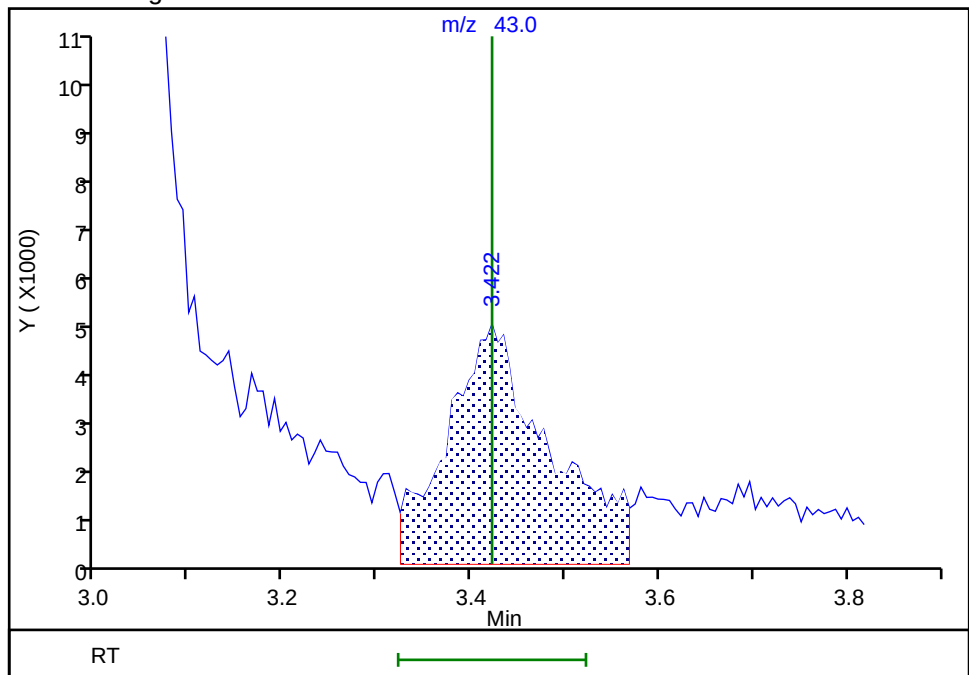
RT: 3.42
Area: 17412
Amount: 1.079086
Amount Units: ug/l

Processing Integration Results



RT: 3.42
Area: 34355
Amount: 1.724548
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:33:54 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

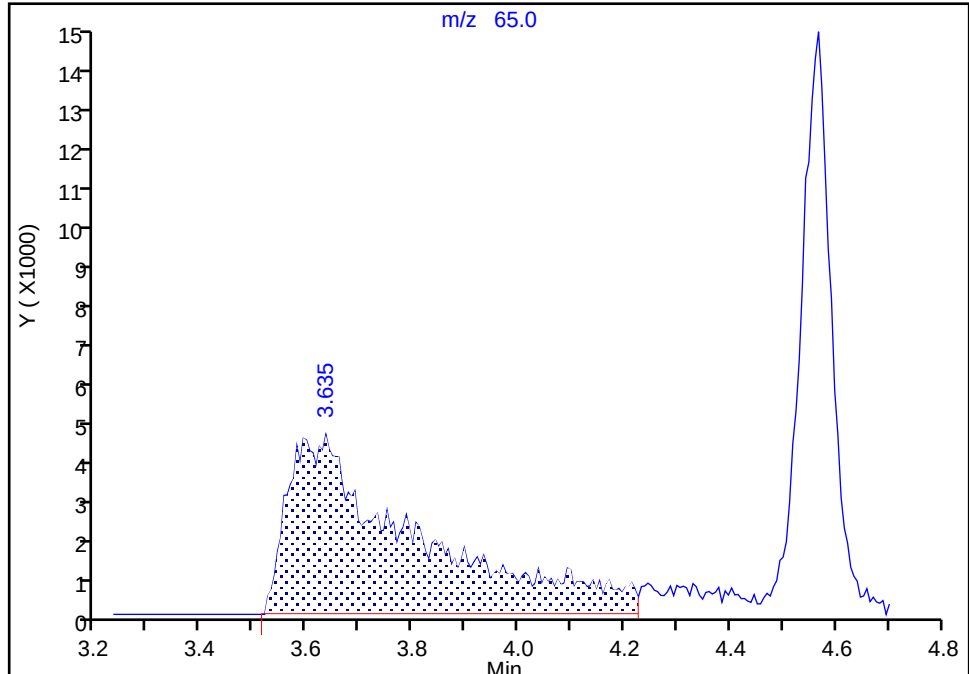
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Injection Date: 03-Dec-2024 17:12:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

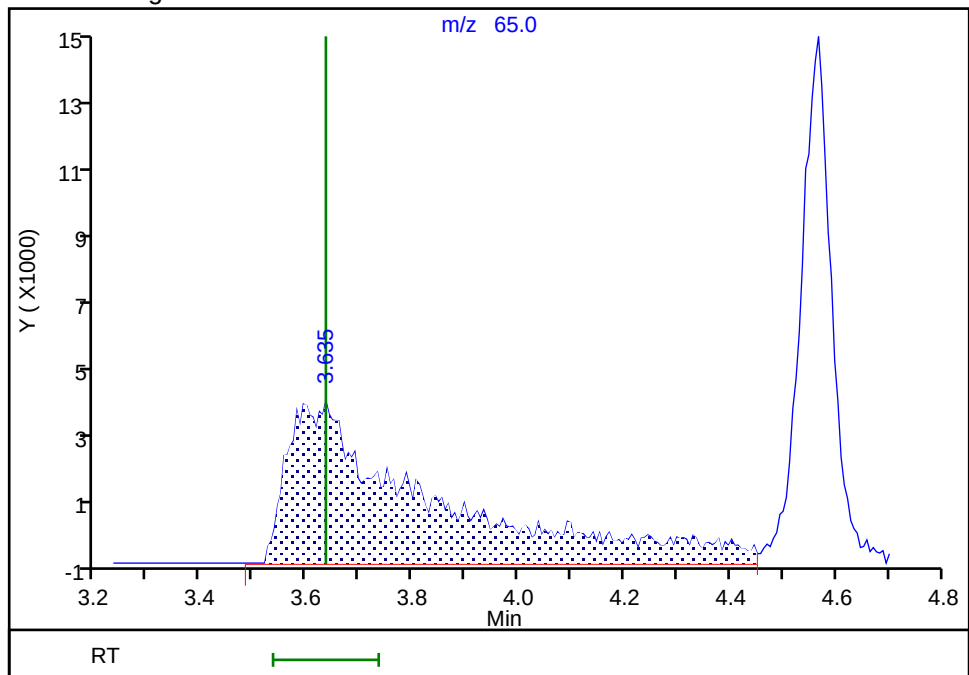
RT: 3.64
Area: 74666
Amount: 49.998300
Amount Units: ug/l

Processing Integration Results



RT: 3.64
Area: 82323
Amount: 49.998300
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:21:34 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

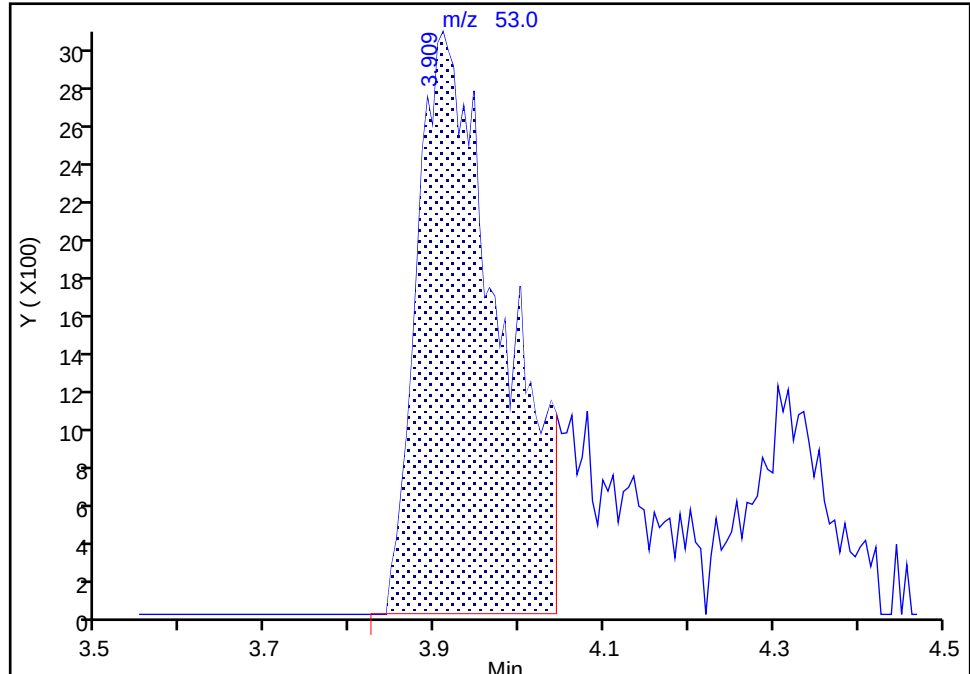
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Injection Date: 03-Dec-2024 17:12:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

32 Acrylonitrile, CAS: 107-13-1

Signal: 1

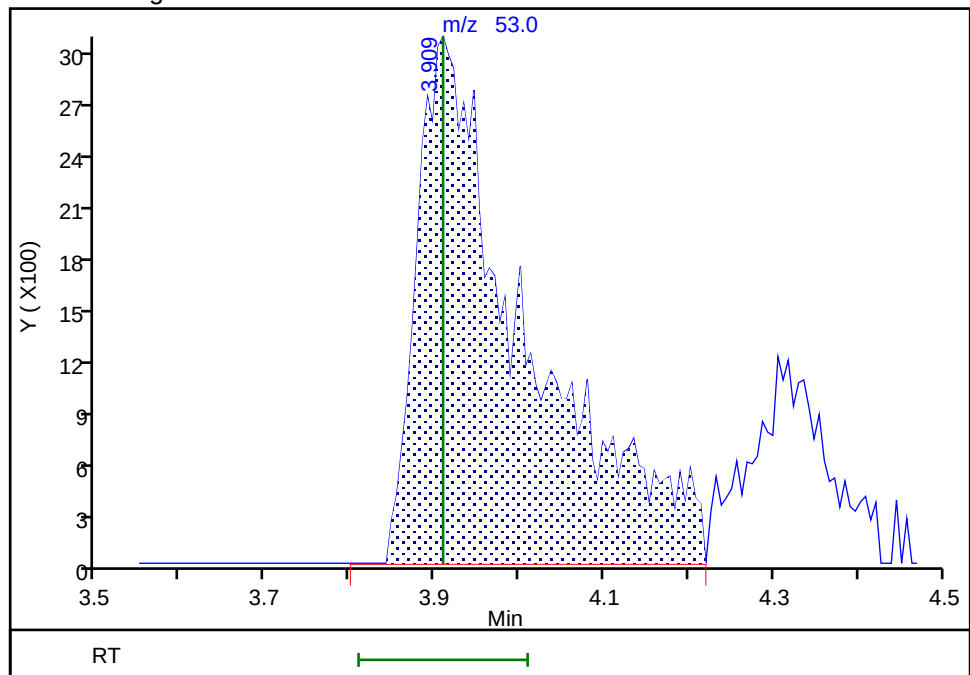
RT: 3.91
Area: 20959
Amount: 3.799702
Amount Units: ug/l

Processing Integration Results



RT: 3.91
Area: 27235
Amount: 4.209690
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:22:00 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

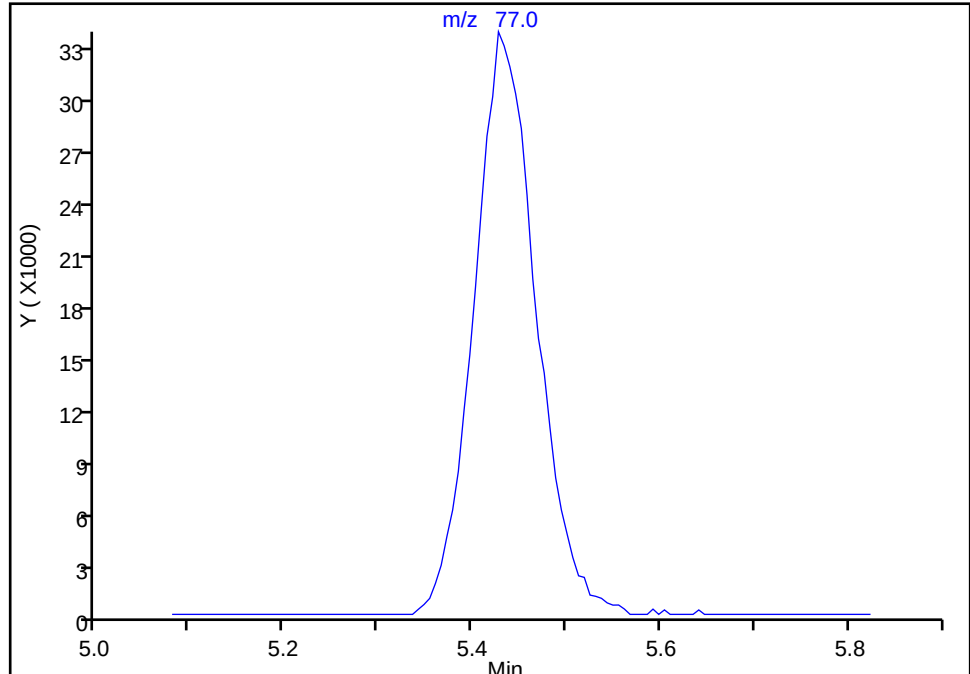
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Injection Date: 03-Dec-2024 17:12:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

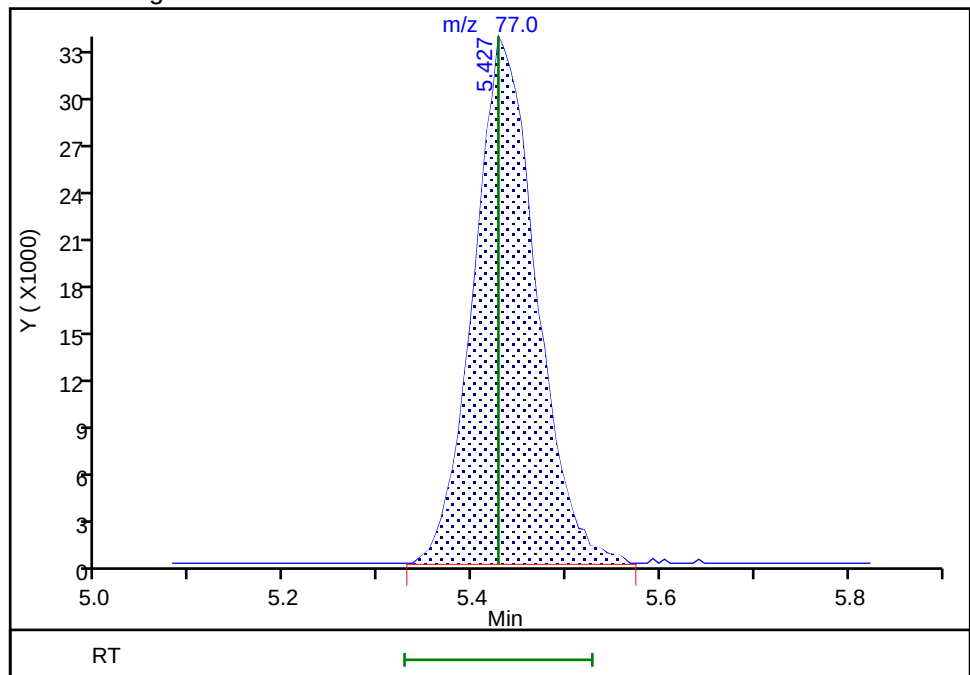
Not Detected
Expected RT: 5.43

Processing Integration Results



RT: 5.43
Area: 153705
Amount: 1.785666
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:13:31 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

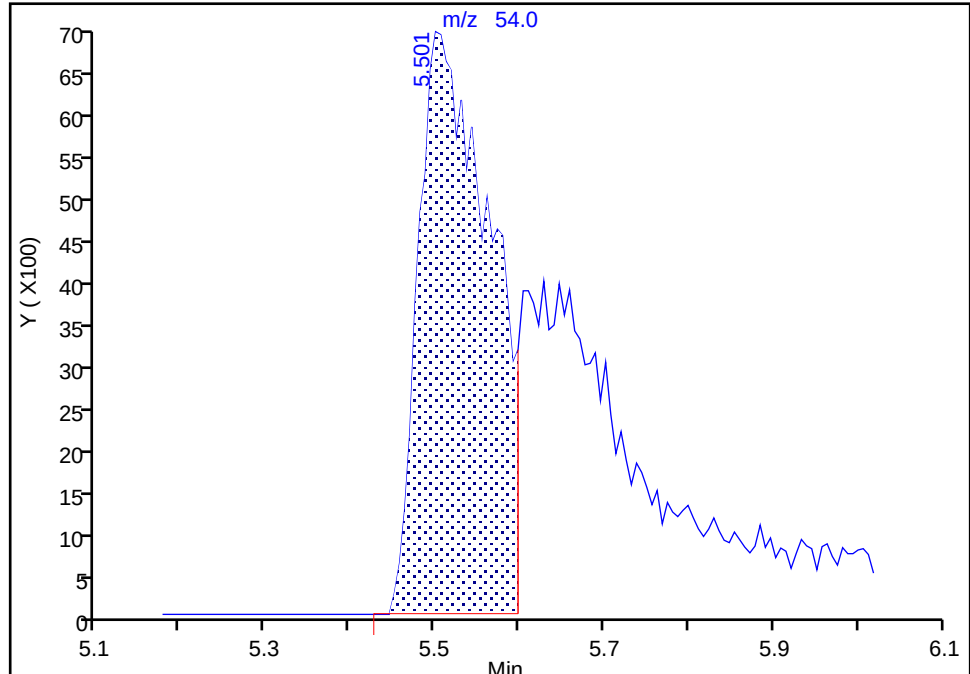
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Injection Date: 03-Dec-2024 17:12:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

45 Propionitrile, CAS: 107-12-0

Signal: 1

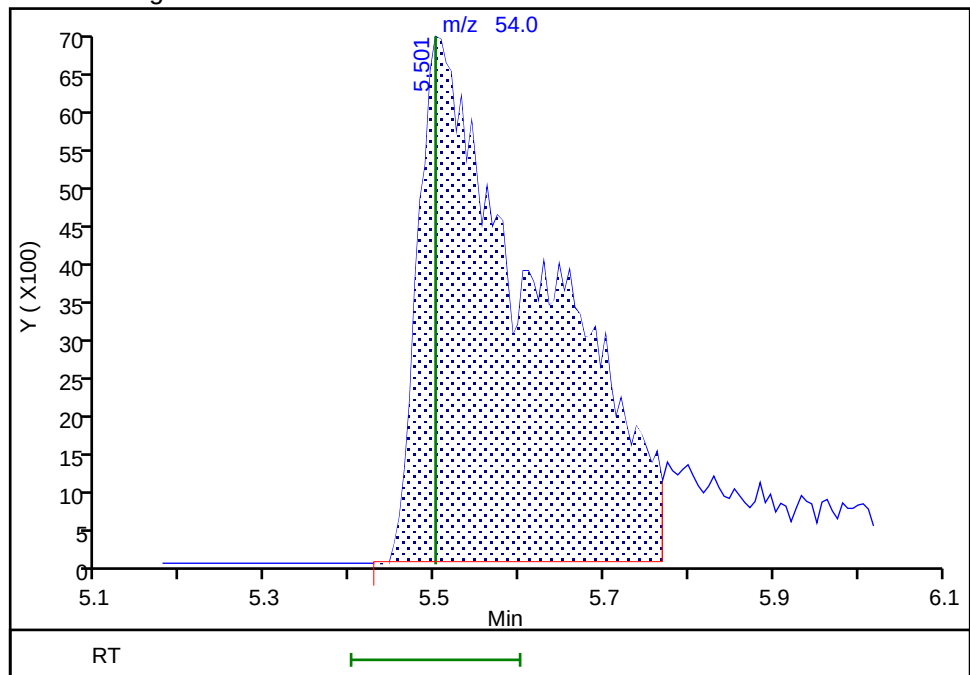
RT: 5.50
Area: 41238
Amount: 27.446350
Amount Units: ug/l

Processing Integration Results



RT: 5.50
Area: 69444
Amount: 32.591189
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:24:29 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

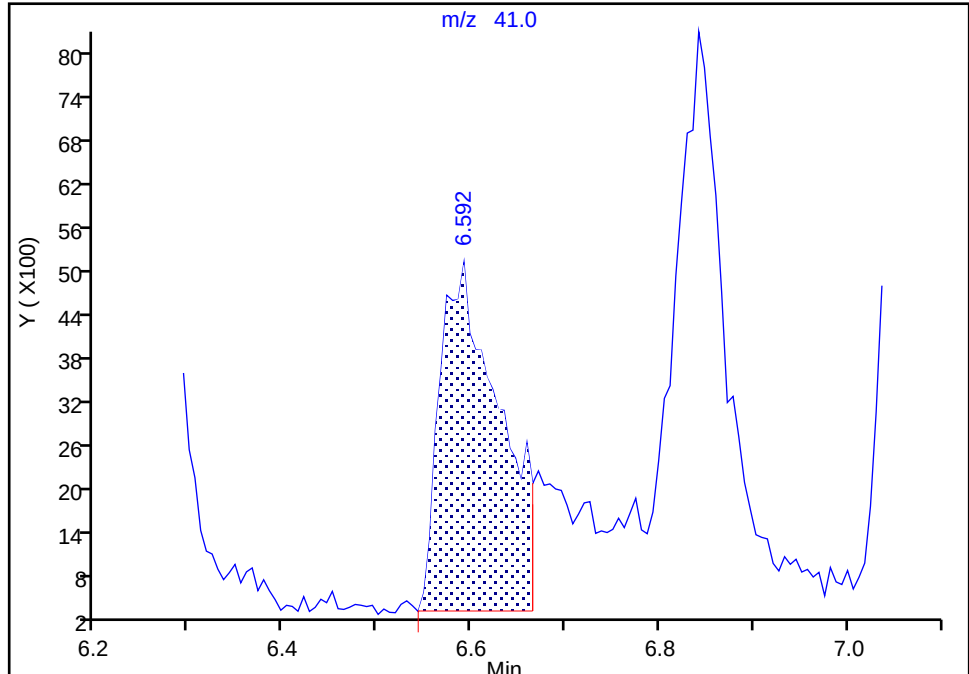
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Injection Date: 03-Dec-2024 17:12:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

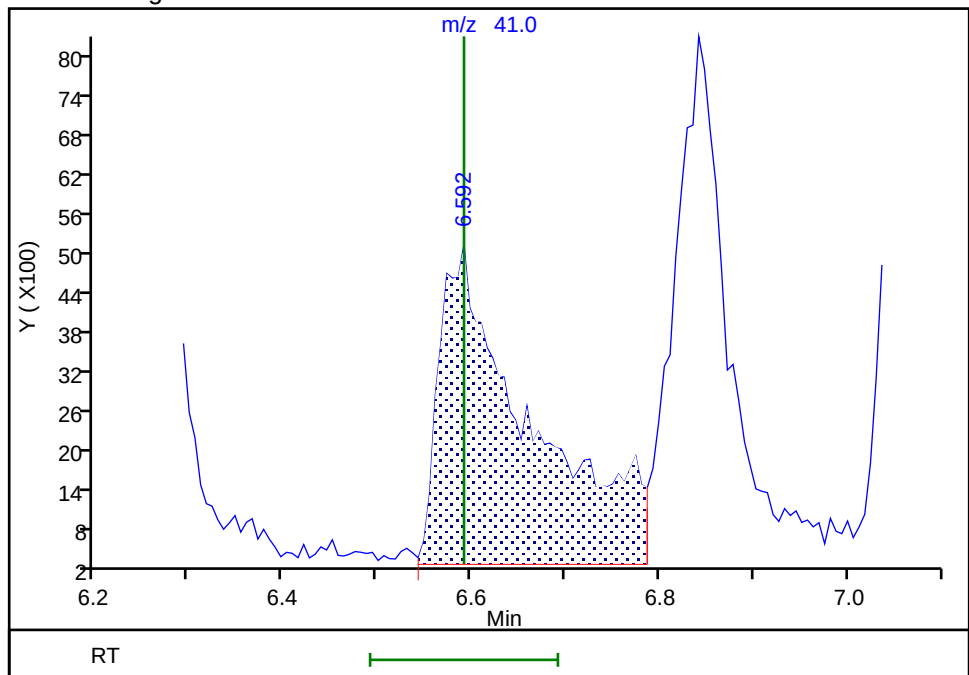
RT: 6.59
Area: 21074
Amount: 61.215291
Amount Units: ug/l

Processing Integration Results



RT: 6.59
Area: 32401
Amount: 84.738805
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:37:38 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

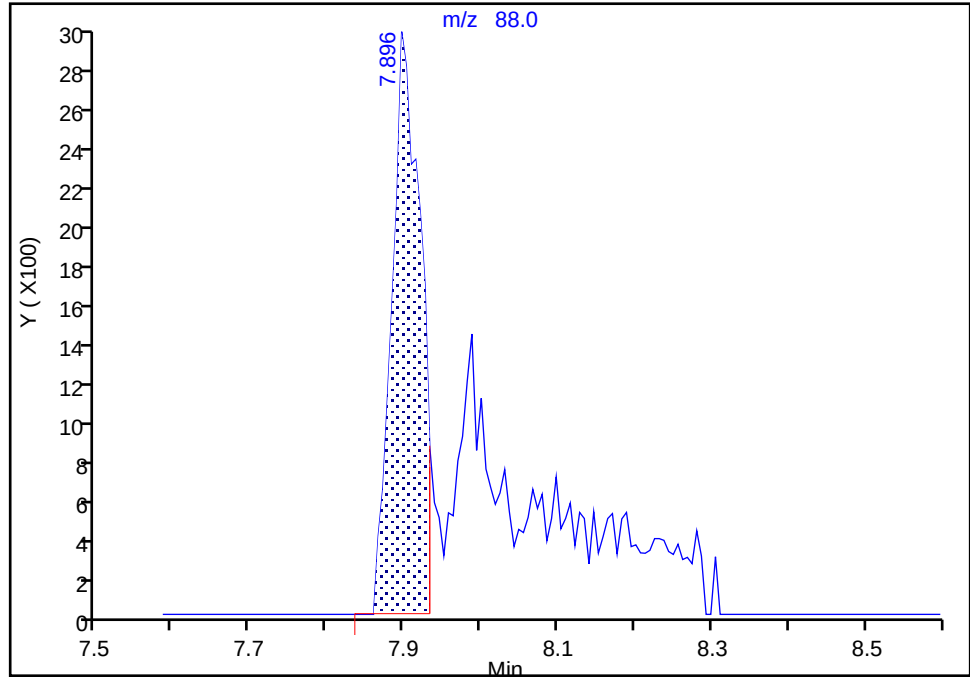
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X15.D
Injection Date: 03-Dec-2024 17:12:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

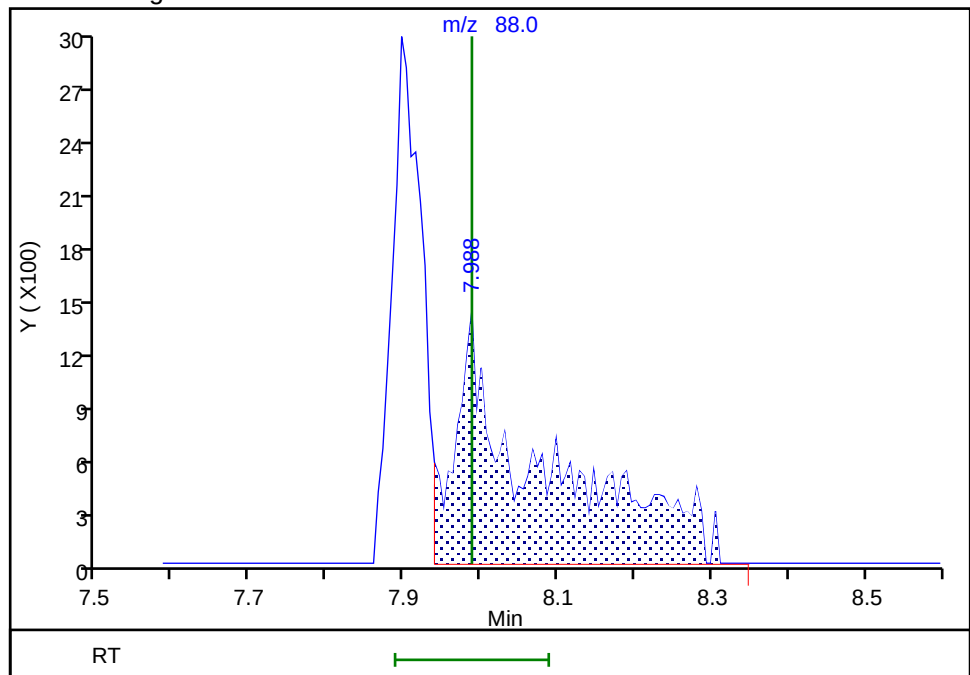
RT: 7.90
Area: 7670
Amount: 86.613091
Amount Units: ug/l

Processing Integration Results



RT: 7.99
Area: 10948
Amount: 104.0271
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:27:08 -05:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

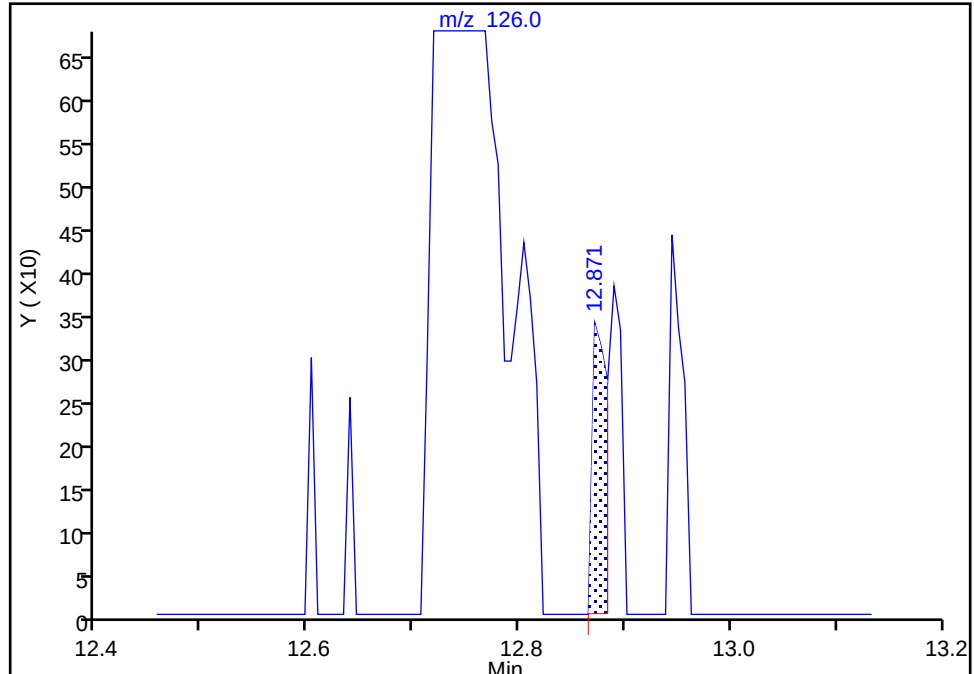
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Injection Date: 03-Dec-2024 17:12:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

145 Benzyl chloride, CAS: 100-44-7

Signal: 1

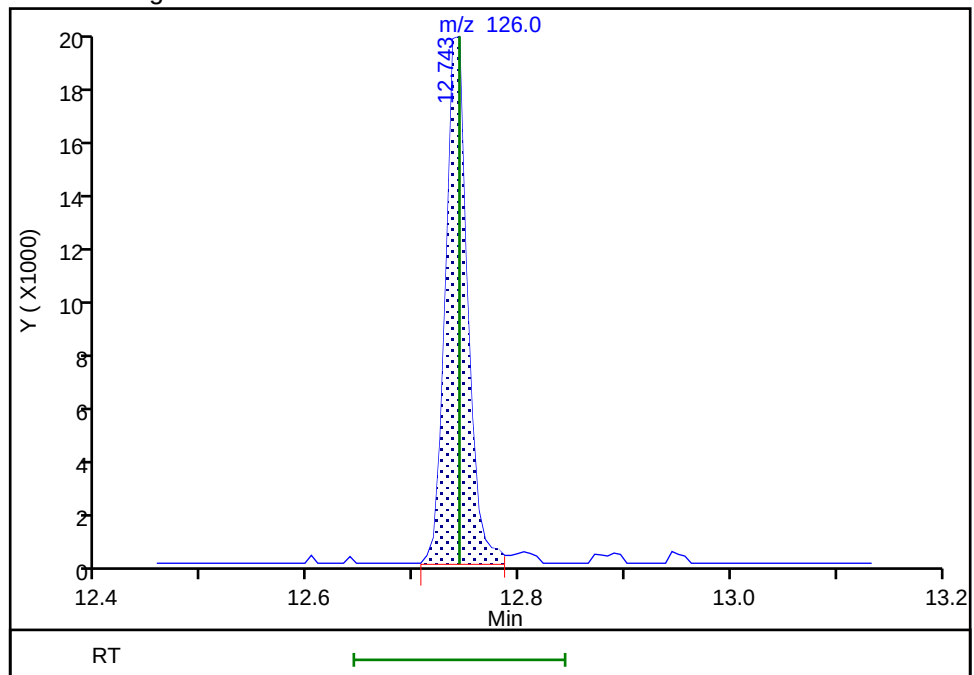
RT: 12.87
Area: 335
Amount: 0.032267
Amount Units: ug/l

Processing Integration Results



RT: 12.74
Area: 28456
Amount: 1.847745
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:11:21 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X16.D
 Lims ID: IC std5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 03-Dec-2024 17:34:30 ALS Bottle#: 6 Worklist Smp#: 17
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0132221-017
 Misc. Info.: IC STD5
 Operator ID: knk41612 Instrument ID: 16334
 Sublist: chrom-MSV_16334_25mL*sub4
 Method: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Dec-2024 09:42:30 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1610

First Level Reviewer: DVW2

Date: 04-Dec-2024 08:11:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.696	1.709	-0.013	99	352043	5.00	5.64	
5 Chloromethane	50	1.873	1.879	-0.006	99	392216	5.00	5.24	
7 Butadiene	39	1.959	1.965	-0.007	90	372980	5.00	5.41	
6 Vinyl chloride	62	1.977	1.983	-0.006	98	366033	5.00	5.40	
9 Bromomethane	94	2.263	2.276	-0.013	90	228209	5.00	5.18	M
10 Chloroethane	64	2.300	2.306	-0.006	100	177241	5.00	5.18	
11 Dichlorofluoromethane	67	2.501	2.507	-0.006	96	514997	5.00	5.37	
12 Trichlorofluoromethane	101	2.593	2.599	-0.006	98	419995	5.00	5.59	
13 Ethyl ether	59	2.757	2.769	-0.012	90	135551	5.00	4.93	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.836	2.843	-0.007	92	284156	5.00	5.02	
17 Acrolein	56	2.910	2.916	-0.006	100	744657	244.0	252.6	M
18 1,1-Dichloroethene	96	3.025	3.032	-0.007	98	236422	5.00	5.37	
19 Acetone	43	3.056	3.062	-0.006	54	214120	50.0	51.2	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.062	3.068	-0.006	93	264589	5.00	5.71	
22 Iodomethane	142	3.184	3.190	-0.006	100	462010	5.00	5.43	
21 Isopropyl alcohol	45	3.166	3.196	-0.030	98	60818	100.0	122.5	
23 Ethyl bromide	108	3.208	3.214	-0.006	99	190046	5.01	4.90	
24 Carbon disulfide	76	3.275	3.282	-0.007	99	884515	5.00	5.48	
25 Methyl acetate	43	3.409	3.422	-0.013	30	103492	5.00	5.87	M
27 3-Chloro-1-propene	41	3.422	3.422	0.000	92	408456	5.00	5.34	
29 Methylene Chloride	84	3.574	3.580	-0.006	92	262746	5.00	5.40	
* 30 t-Butyl alcohol-d10 (IS)	65	3.592	3.635	-0.043	99	72915	50.0	50.0	
31 2-Methyl-2-propanol	59	3.702	3.714	-0.012	91	89372	100.0	104.3	
32 Acrylonitrile	53	3.891	3.909	-0.018	96	83133	12.5	14.5	M
34 trans-1,2-Dichloroethene	96	3.928	3.934	-0.006	99	282729	5.00	5.47	
33 Methyl tert-butyl ether	73	3.922	3.940	-0.018	96	541024	5.00	5.51	
35 Hexane	57	4.324	4.336	-0.012	91	393516	5.00	5.83	
37 1,1-Dichloroethane	63	4.562	4.562	0.000	96	512206	5.00	5.47	
38 Isopropyl ether	45	4.635	4.641	-0.006	93	820815	5.00	5.57	
39 2-Chloro-1,3-butadiene	53	4.671	4.684	-0.013	90	398905	5.00	5.56	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.183	5.184	-0.001	97	726011	5.00	5.60	
41 2-Butanone (MEK)	43	5.391	5.403	-0.012	100	417953	50.0	58.3	
42 cis-1,2-Dichloroethene	96	5.421	5.421	0.000	82	305906	5.00	5.41	
43 2,2-Dichloropropane	77	5.427	5.427	0.000	85	429482	5.00	5.39	a
45 Propionitrile	54	5.482	5.501	-0.019	99	227843	100.0	109.2	
48 Methacrylonitrile	67	5.696	5.696	0.000	91	481475	50.0	62.3	
49 Chlorobromomethane	128	5.757	5.763	-0.006	94	119918	5.00	5.65	
50 Tetrahydrofuran	71	5.775	5.769	0.006	79	61837	25.0	30.1	
51 Chloroform	83	5.915	5.927	-0.012	93	506612	5.00	5.51	
53 1,1,1-Trichloroethane	97	6.141	6.141	0.000	88	439309	5.00	5.40	
\$ 52 Dibromofluoromethane (Surr)	113	6.141	6.141	0.000	93	459804	10.0	10.0	
S 47 1,2-Dichloroethene, Total	100				0			10.9	
54 Cyclohexane	56	6.238	6.238	0.000	91	463715	5.00	5.72	
55 Carbon tetrachloride	117	6.354	6.354	0.000	97	382481	5.00	5.50	
56 1,1-Dichloropropene	75	6.366	6.366	0.000	99	399041	5.00	5.50	
58 Isobutyl alcohol	41	6.580	6.592	-0.012	91	99540	250.0	281.0	M
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.592	6.598	-0.006	96	87048	10.0	9.91	
60 Benzene	78	6.622	6.628	-0.006	97	1164816	5.00	5.38	
61 1,2-Dichloroethane	62	6.701	6.702	-0.001	97	267172	5.00	5.38	
63 Tert-amyl methyl ether	73	6.842	6.842	0.000	99	602513	5.00	5.60	
* 64 Fluorobenzene (IS)	96	7.043	7.049	-0.006	98	1950593	10.0	10.0	
65 n-Heptane	43	7.073	7.073	0.000	92	371302	5.00	5.60	
67 n-Butanol	56	7.488	7.512	-0.024	90	137314	437.5	486.3	
68 Trichloroethene	95	7.537	7.537	0.000	99	303896	5.00	5.46	
69 Methylcyclohexane	83	7.842	7.842	0.000	91	494196	5.00	5.81	
70 1,2-Dichloropropane	63	7.866	7.866	0.000	97	289521	5.00	5.52	
71 2-ethoxy-2-methyl butane	87	7.902	7.909	-0.007	95	430259	5.00	5.70	
74 Dibromomethane	93	7.982	7.982	0.000	97	118370	5.00	5.50	
73 1,4-Dioxane	88	7.988	7.988	0.000	30	28481	250.0	305.5	M
72 Methyl methacrylate	69	7.988	7.994	-0.006	91	83871	5.00	5.71	
76 Dichlorobromomethane	83	8.232	8.232	0.000	99	331371	5.00	5.52	
77 2-Nitropropane	41	8.512	8.512	0.000	99	117113	25.0	26.1	
79 1-Bromo-2-chloroethane	63	8.622	8.622	0.000	99	228348	5.00	5.07	
81 cis-1,3-Dichloropropene	75	8.799	8.805	-0.006	97	417413	5.00	5.67	
82 4-Methyl-2-pentanone (MIBK)	43	9.006	9.012	-0.006	96	1116416	50.0	60.2	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	94	1991994	10.0	10.0	
84 Toluene	92	9.219	9.219	0.000	98	746443	5.00	5.40	
85 trans-1,3-Dichloropropene	75	9.524	9.524	0.000	92	325432	5.00	5.63	
86 Ethyl methacrylate	69	9.609	9.616	-0.007	89	201339	5.00	5.77	
107 1,1,2-Trichloroethane	97	9.737	9.738	-0.001	91	170031	5.00	5.33	
108 Tetrachloroethene	166	9.823	9.823	0.000	97	336165	5.00	5.39	
109 1,3-Dichloropropane	76	9.908	9.908	0.000	90	305206	5.00	5.53	
110 2-Hexanone	43	9.987	9.994	-0.007	97	795187	50.0	61.7	
S 106 1,3-Dichloropropene, Total	100				0			11.3	
112 Chlorodibromomethane	129	10.134	10.134	0.000	90	217986	5.00	5.60	
113 Ethylene Dibromide	107	10.243	10.244	-0.001	99	164058	5.00	5.78	
* 114 Chlorobenzene-d5 (IS)	117	10.707	10.707	0.000	85	1433964	10.0	10.0	
116 Chlorobenzene	112	10.731	10.731	0.000	95	839645	5.00	5.41	
115 1-Chlorohexane	91	10.731	10.731	0.000	94	399476	5.00	5.37	
117 1,1,1,2-Tetrachloroethane	131	10.823	10.823	0.000	95	276920	5.00	5.50	
118 Ethylbenzene	91	10.829	10.829	0.000	98	1486798	5.00	5.53	
120 m-Xylene & p-Xylene	106	10.951	10.951	0.000	100	1160356	10.0	11.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 119 Xylenes, Total	106				0			16.8	
121 o-Xylene	106	11.292	11.292	0.000	96	557256	5.00	5.63	
122 Styrene	104	11.310	11.310	0.000	95	886451	5.00	5.89	
123 Bromoform	173	11.457	11.463	-0.006	96	113725	5.00	5.65	
124 Isopropylbenzene	105	11.603	11.603	0.000	96	1315275	5.00	5.66	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.743	11.743	0.000	89	689198	10.0	10.0	
128 1,1,2,2-Tetrachloroethane	83	11.859	11.859	0.000	65	197424	5.00	5.57	
129 Bromobenzene	156	11.859	11.859	0.000	91	330476	5.00	5.56	
130 trans-1,4-Dichloro-2-butene	53	11.883	11.883	0.000	90	467344	50.0	59.2	
131 1,2,3-Trichloropropane	110	11.902	11.902	0.000	80	53211	5.00	5.64	
132 N-Propylbenzene	91	11.938	11.938	0.000	99	1768304	5.00	5.54	
133 2-Chlorotoluene	126	12.011	12.012	-0.001	96	347470	5.00	5.48	
134 1,3,5-Trimethylbenzene	105	12.078	12.085	-0.007	93	1267871	5.00	5.64	
135 4-Chlorotoluene	126	12.109	12.109	0.000	97	364812	5.00	5.56	
136 tert-Butylbenzene	134	12.322	12.322	0.000	93	270802	5.00	5.55	
137 Pentachloroethane	167	12.353	12.353	0.000	84	171947	5.00	5.15	
138 1,2,4-Trimethylbenzene	105	12.365	12.371	-0.006	97	1303117	5.00	5.66	
139 sec-Butylbenzene	105	12.487	12.493	-0.006	94	1614632	5.00	5.54	
140 1,3-Dichlorobenzene	146	12.584	12.585	-0.001	98	695117	5.00	5.50	
141 4-Isopropyltoluene	119	12.603	12.603	0.000	97	1420728	5.00	5.71	
* 142 1,4-Dichlorobenzene-d4	152	12.639	12.639	0.000	94	763721	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.658	12.658	0.000	95	691343	5.00	5.35	
144 1,2,3-Trimethylbenzene	120	12.670	12.676	-0.006	99	540891	5.00	5.49	
145 Benzyl chloride	126	12.737	12.743	-0.006	98	79734	5.00	5.56	a
146 p-Diethylbenzene	119	12.877	12.877	0.000	93	858382	5.00	5.58	
147 n-Butylbenzene	92	12.895	12.895	0.000	97	719739	5.00	5.64	
148 1,2-Dichlorobenzene	146	12.920	12.920	0.000	98	601232	5.00	5.48	
150 1,2-Dibromo-3-Chloropropane	155	13.462	13.469	-0.007	82	23192	5.00	5.92	
151 1,3,5-Trichlorobenzene	180	13.590	13.590	0.000	98	551780	5.00	5.55	
152 1,2,4-Trichlorobenzene	180	14.011	14.017	-0.006	94	445779	5.00	5.63	
153 Hexachlorobutadiene	225	14.102	14.103	-0.001	97	233284	5.00	5.39	
154 Naphthalene	128	14.194	14.194	0.000	97	609000	5.00	5.78	
155 1,2,3-Trichlorobenzene	180	14.334	14.334	0.000	96	349381	5.00	5.66	
156 2-Methylnaphthalene	142	14.919	14.919	0.000	92	300768	5.00	5.47	
167 Pentane	43	2.763	2.769	-0.006	39	24684	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00155	Amount Added: 5.00	Units: uL	
MSV_LL_#2_826_00163	Amount Added: 5.00	Units: uL	
MSV_LL_GAS826_00247	Amount Added: 5.00	Units: uL	
MSV_29_826ISS_00057	Amount Added: 1.20	Units: uL	Run Reagent

Report Date: 09-Dec-2024 09:42:31

Chrom Revision: 2.3 12-Nov-2024 16:55:22

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X16.D

Injection Date: 03-Dec-2024 17:34:30

Instrument ID: 16334

Operator ID: knk41612

Lims ID: IC std5

Worklist Smp#: 17

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

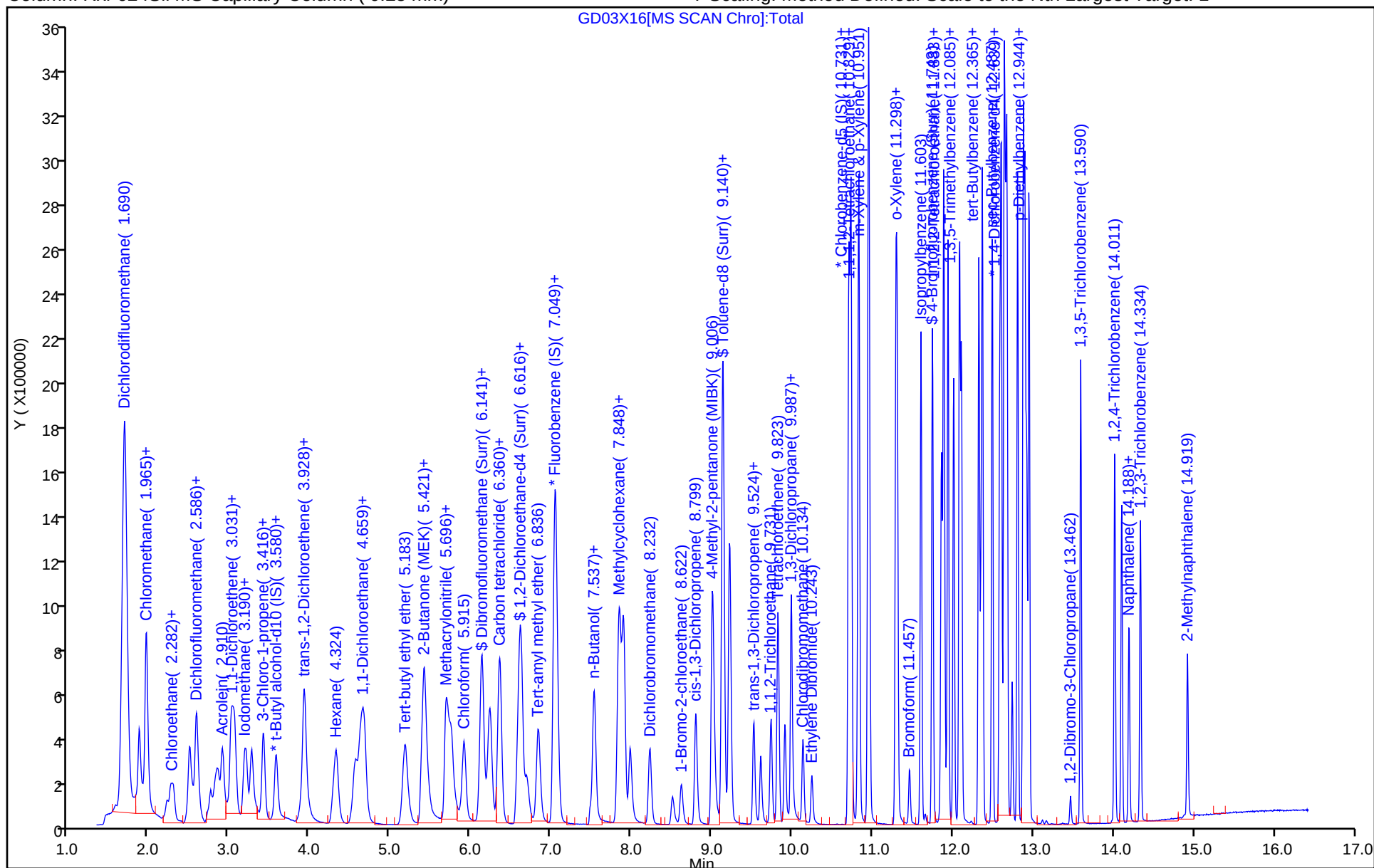
ALS Bottle#: 6

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

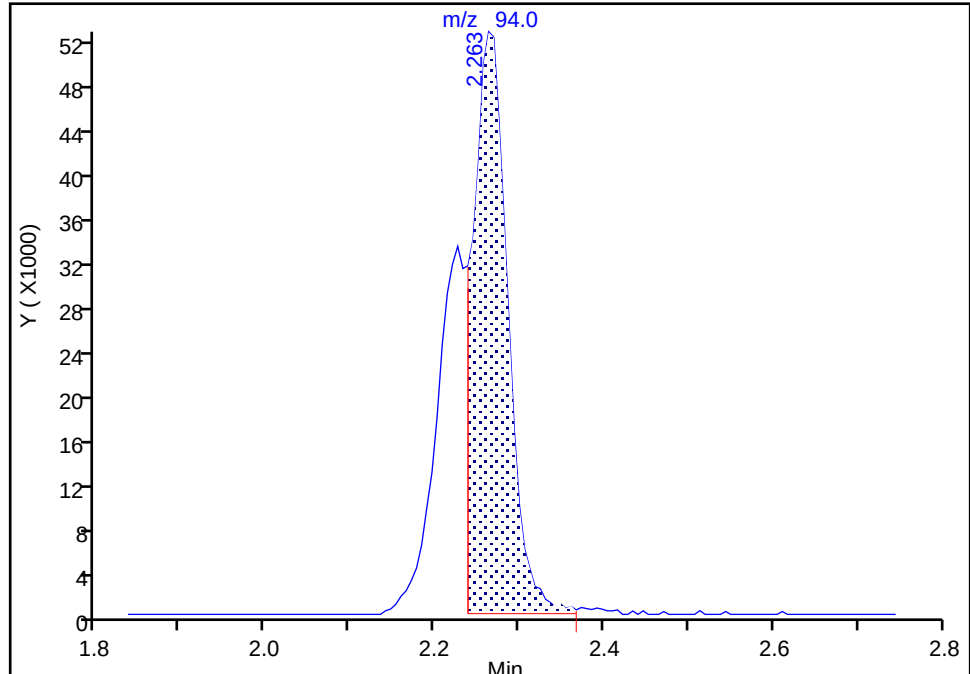
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Injection Date: 03-Dec-2024 17:34:30 Instrument ID: 16334
Lims ID: IC std5
Client ID:
Operator ID: knk41612 ALS Bottle#: 6 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

9 Bromomethane, CAS: 74-83-9

Signal: 1

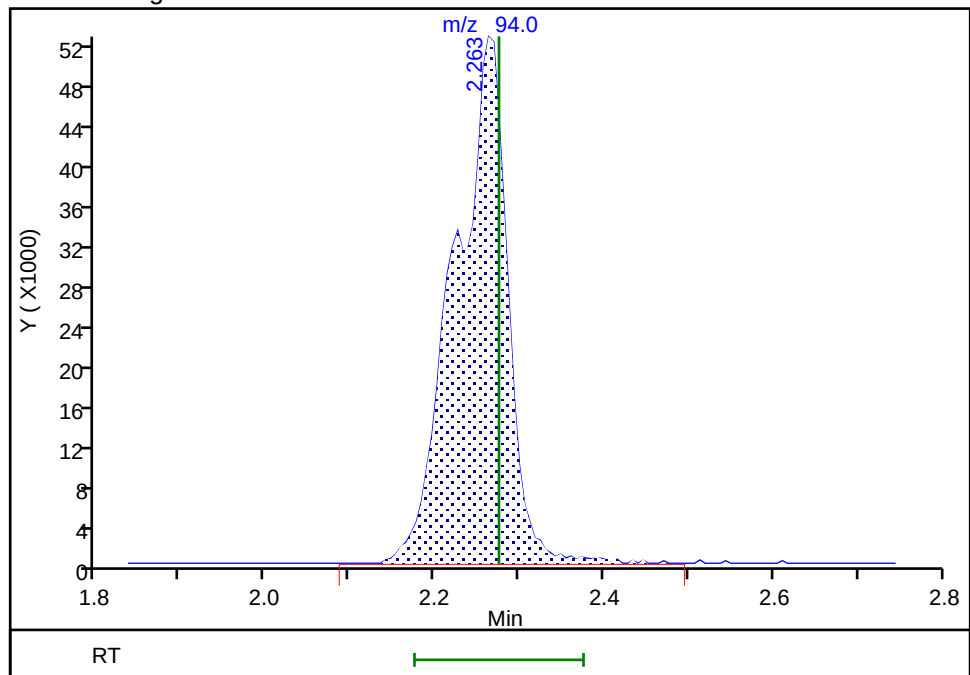
RT: 2.26
Area: 150593
Amount: 5.086096
Amount Units: ug/l

Processing Integration Results



RT: 2.26
Area: 228209
Amount: 5.175103
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:16:23 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

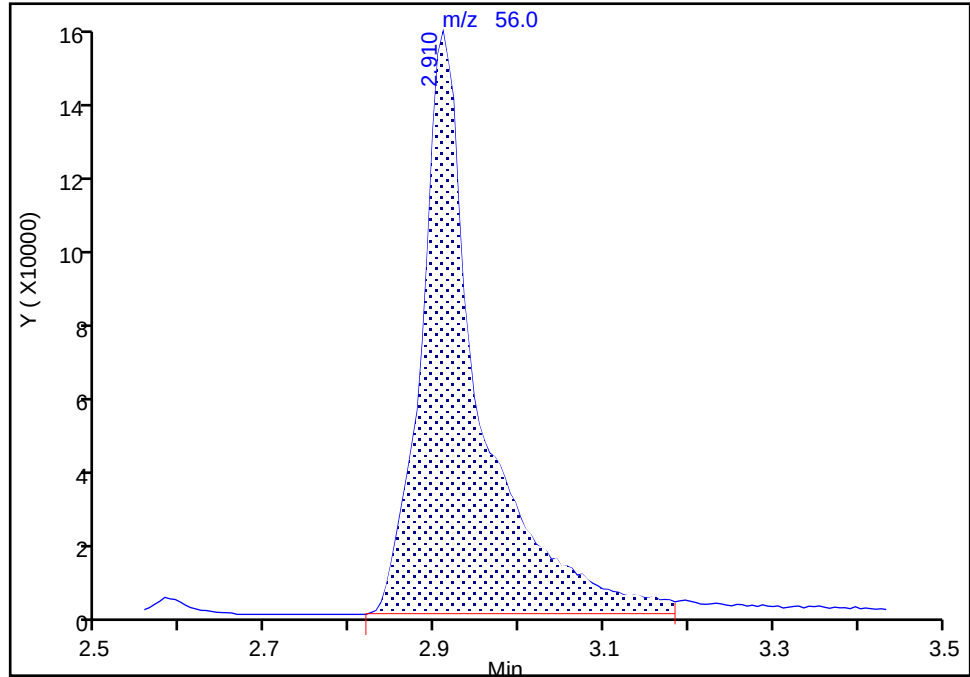
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Injection Date: 03-Dec-2024 17:34:30 Instrument ID: 16334
Lims ID: IC std5
Client ID:
Operator ID: knk41612 ALS Bottle#: 6 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

17 Acrolein, CAS: 107-02-8

Signal: 1

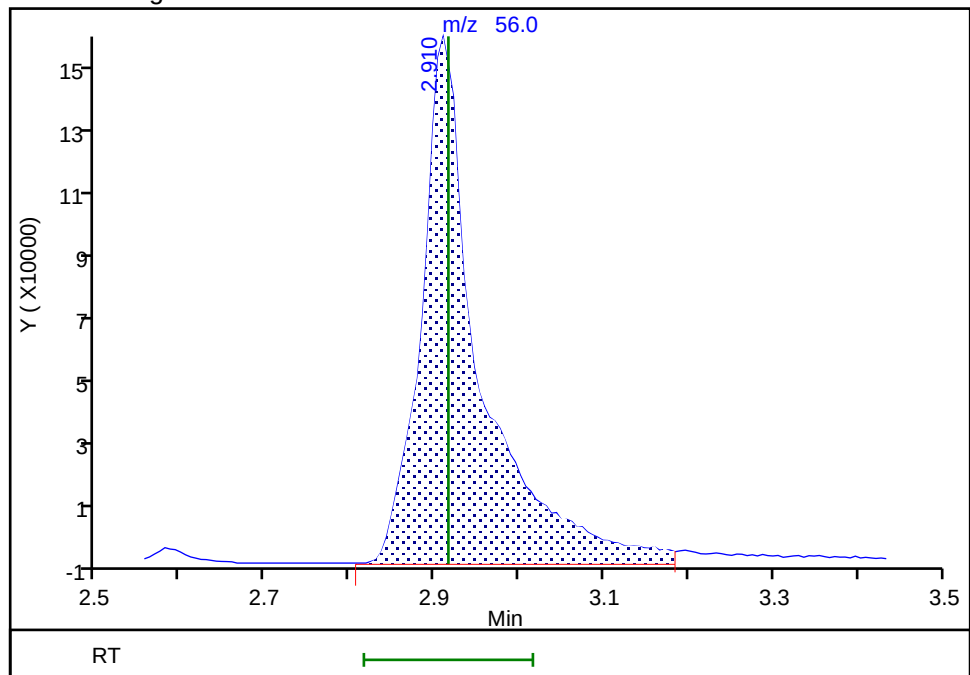
RT: 2.91
Area: 743514
Amount: 294.2413
Amount Units: ug/l

Processing Integration Results



RT: 2.91
Area: 744657
Amount: 252.5869
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:41:38 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

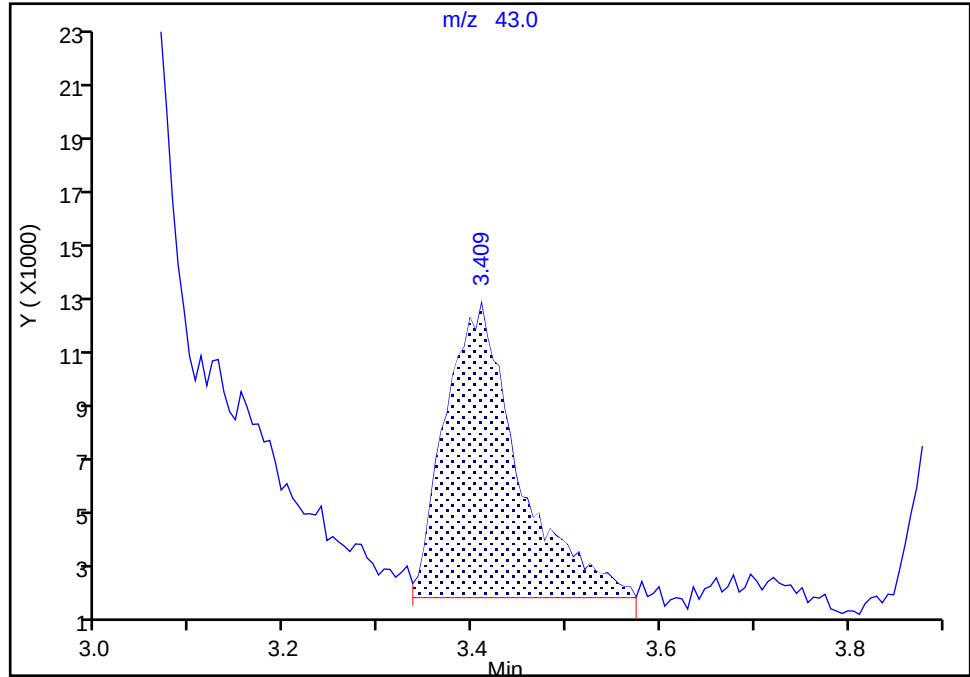
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Injection Date: 03-Dec-2024 17:34:30 Instrument ID: 16334
Lims ID: IC std5
Client ID:
Operator ID: knk41612 ALS Bottle#: 6 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Methyl acetate, CAS: 79-20-9

Signal: 1

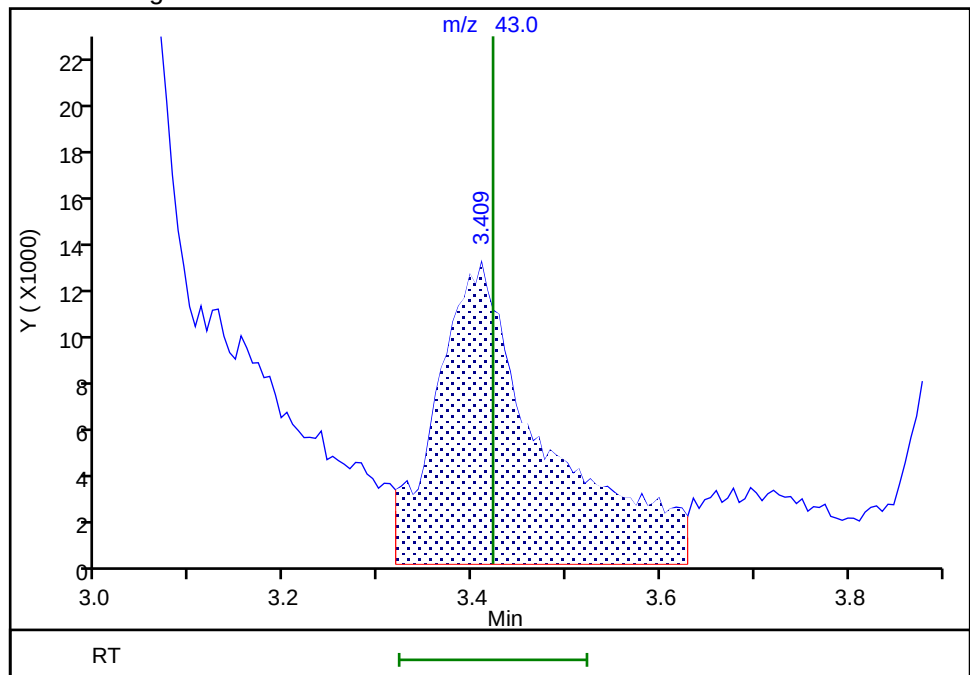
RT: 3.41
Area: 56567
Amount: 3.639526
Amount Units: ug/l

Processing Integration Results



RT: 3.41
Area: 103492
Amount: 5.865383
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:35:05 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

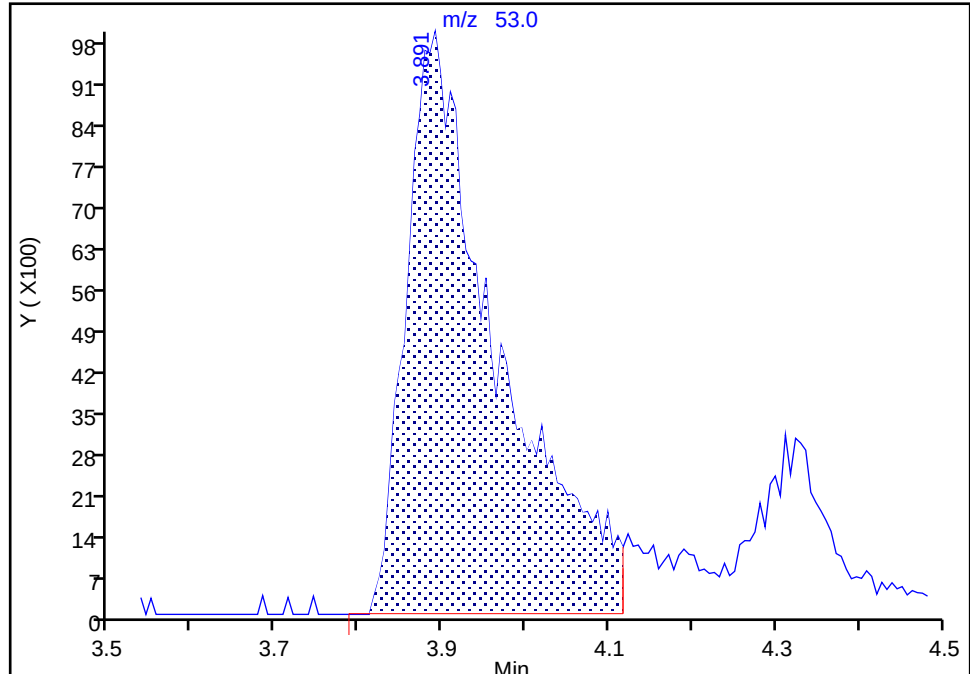
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Injection Date: 03-Dec-2024 17:34:30 Instrument ID: 16334
Lims ID: IC std5
Client ID:
Operator ID: knk41612 ALS Bottle#: 6 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

32 Acrylonitrile, CAS: 107-13-1

Signal: 1

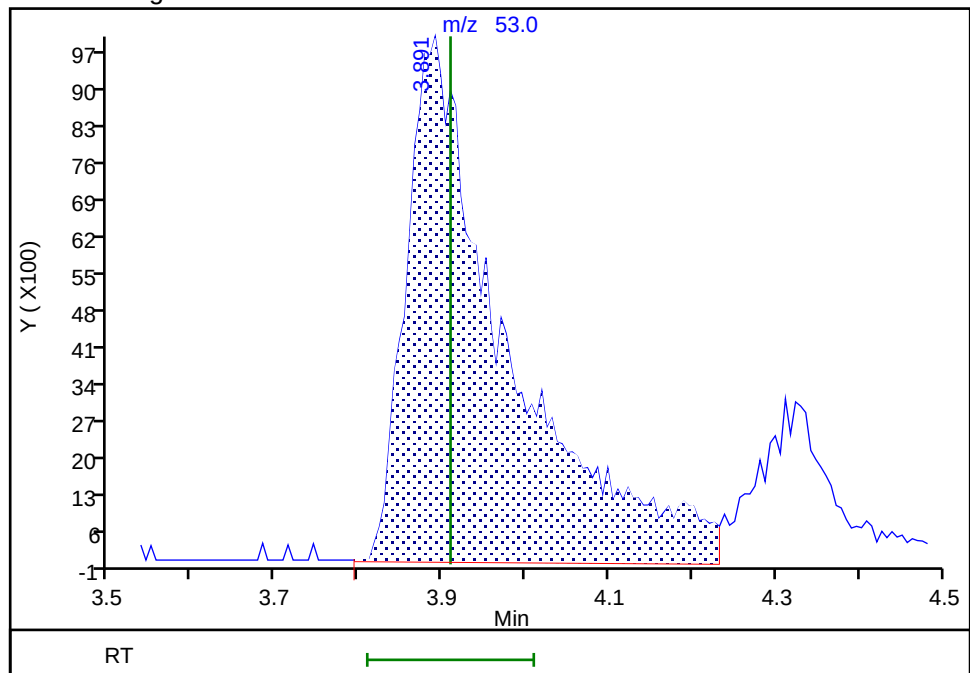
RT: 3.89
Area: 75444
Amount: 13.111902
Amount Units: ug/l

Processing Integration Results



RT: 3.89
Area: 83133
Amount: 14.507764
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:22:19 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

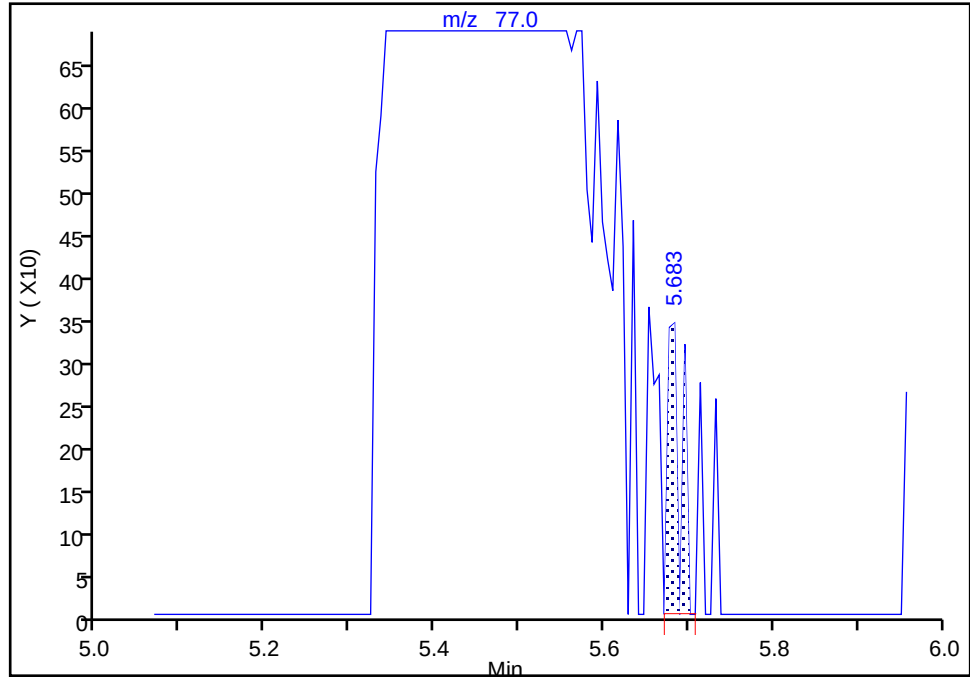
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X16.D
Injection Date: 03-Dec-2024 17:34:30 Instrument ID: 16334
Lims ID: IC std5
Client ID:
Operator ID: knk41612 ALS Bottle#: 6 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

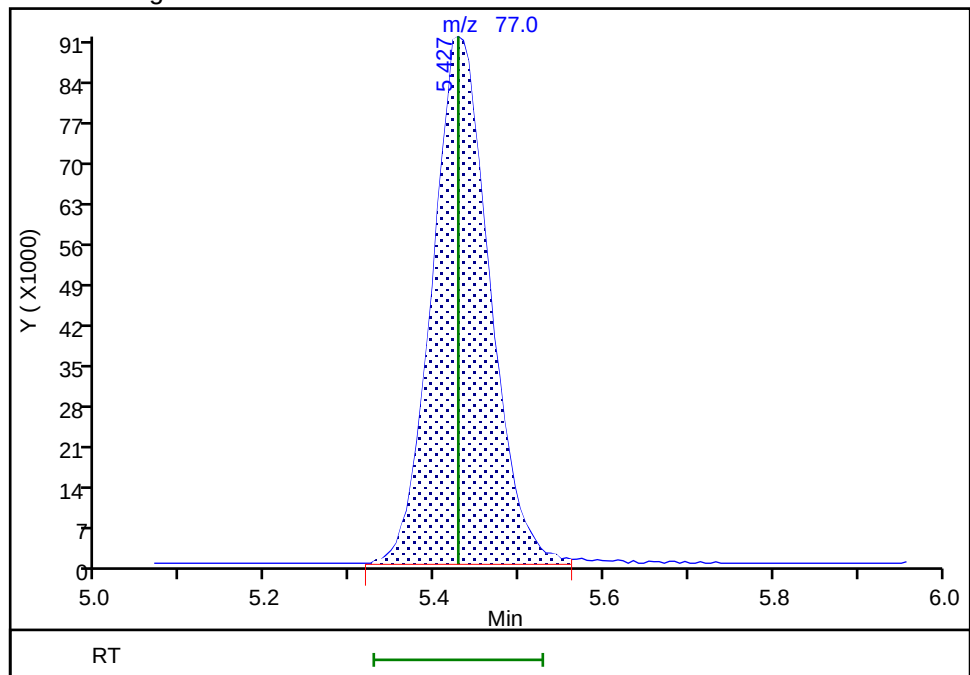
RT: 5.68
Area: 365
Amount: 0.006511
Amount Units: ug/l

Processing Integration Results



RT: 5.43
Area: 429482
Amount: 5.385703
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:13:37 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

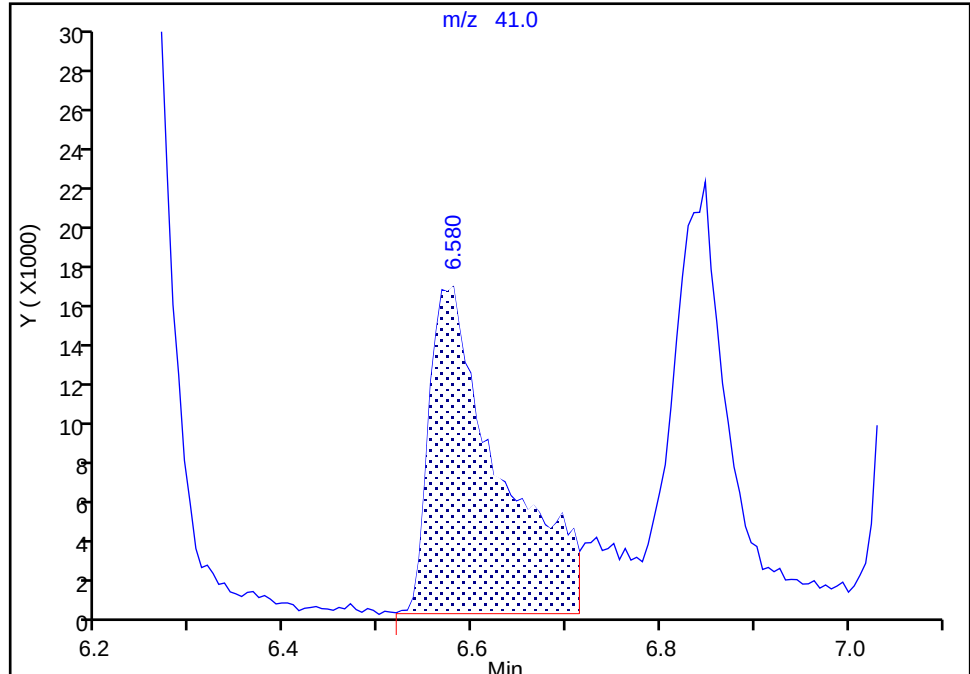
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Injection Date: 03-Dec-2024 17:34:30 Instrument ID: 16334
Lims ID: IC std5
Client ID:
Operator ID: knk41612 ALS Bottle#: 6 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

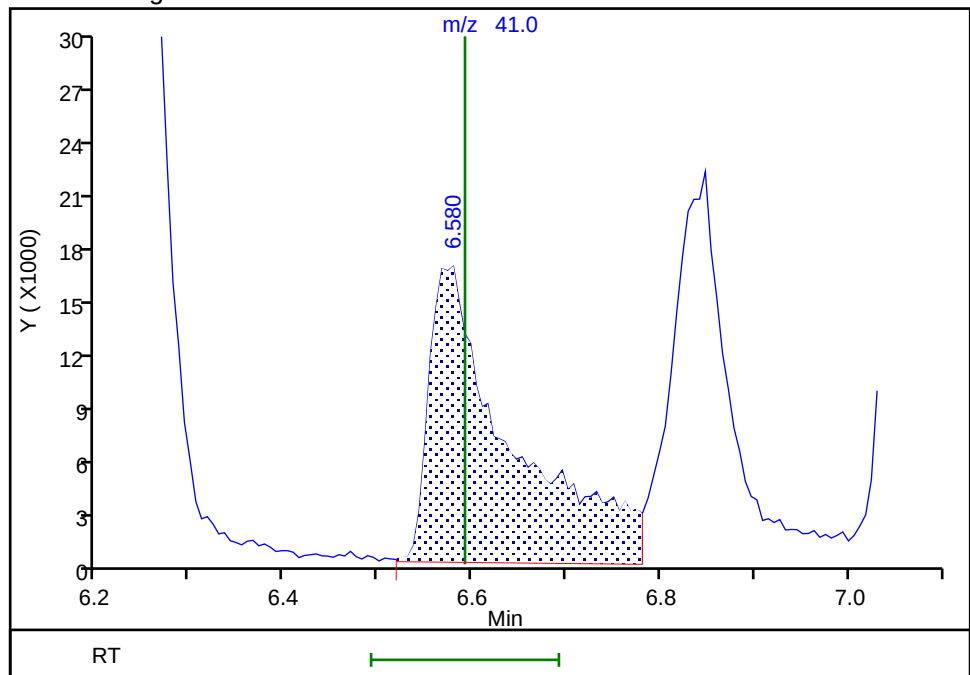
RT: 6.58
Area: 84156
Amount: 271.3449
Amount Units: ug/l

Processing Integration Results



RT: 6.58
Area: 99540
Amount: 281.0002
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:37:15 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

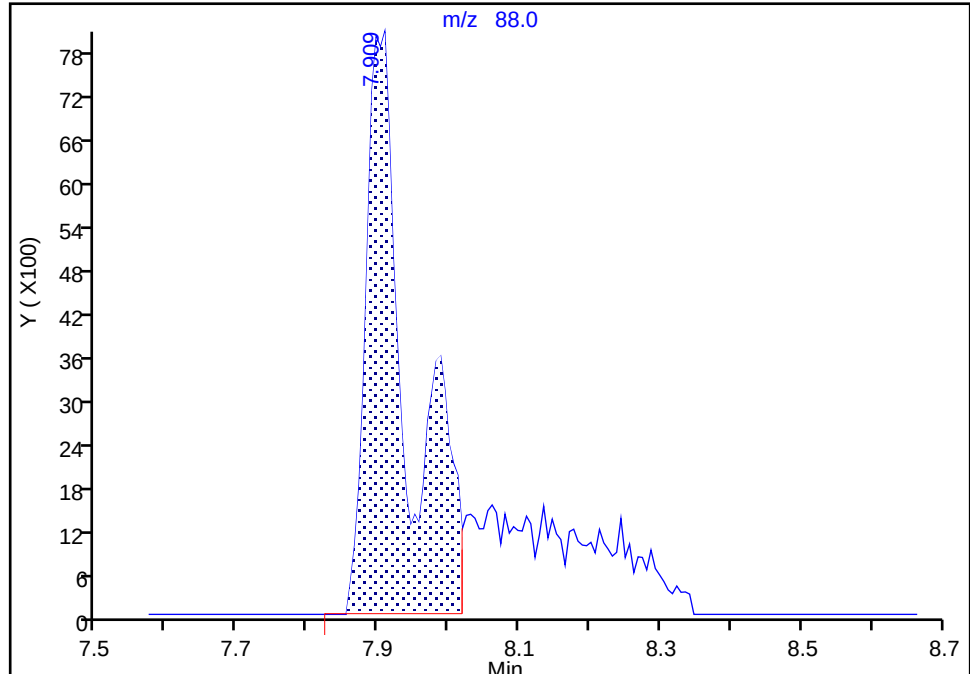
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Injection Date: 03-Dec-2024 17:34:30 Instrument ID: 16334
Lims ID: IC std5
Client ID:
Operator ID: knk41612 ALS Bottle#: 6 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

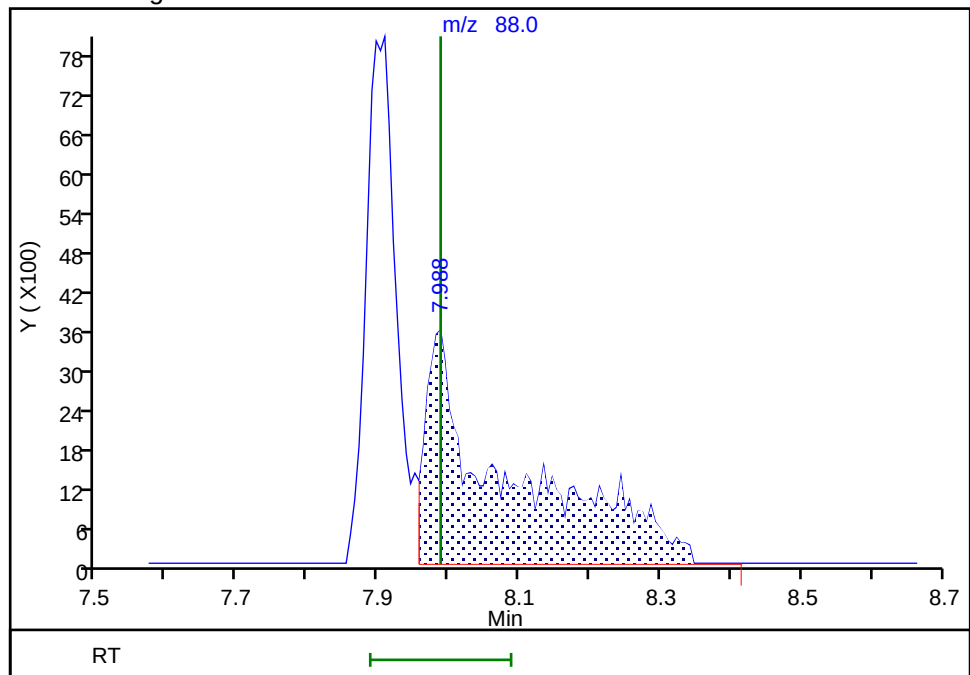
RT: 7.91
Area: 33489
Amount: 311.0411
Amount Units: ug/l

Processing Integration Results



RT: 7.99
Area: 28481
Amount: 305.5423
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:18:12 -05:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

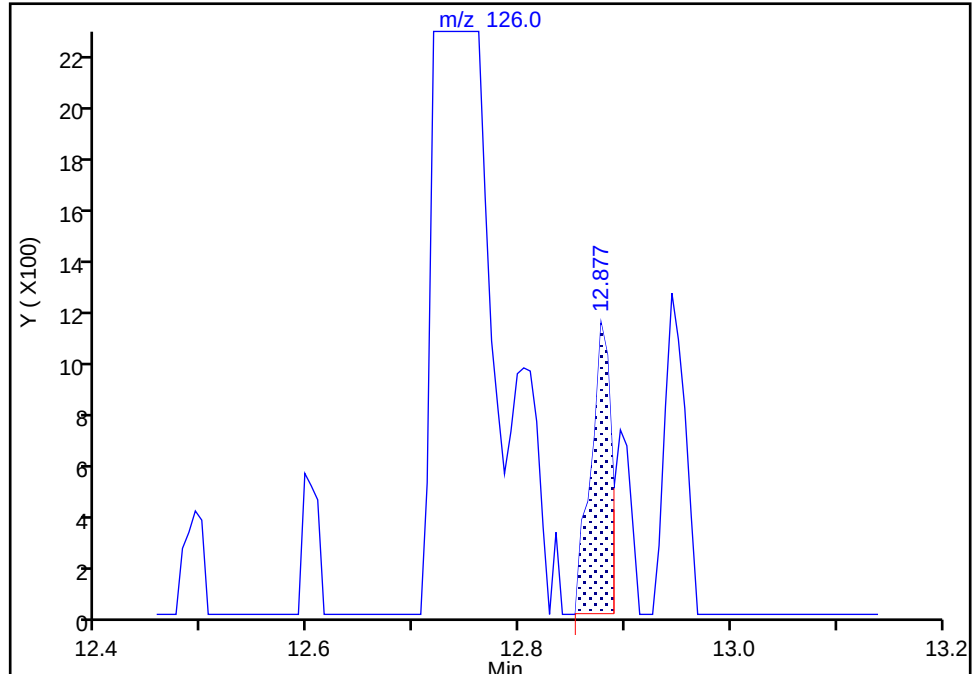
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Injection Date: 03-Dec-2024 17:34:30 Instrument ID: 16334
Lims ID: IC std5
Client ID:
Operator ID: knk41612 ALS Bottle#: 6 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

145 Benzyl chloride, CAS: 100-44-7

Signal: 1

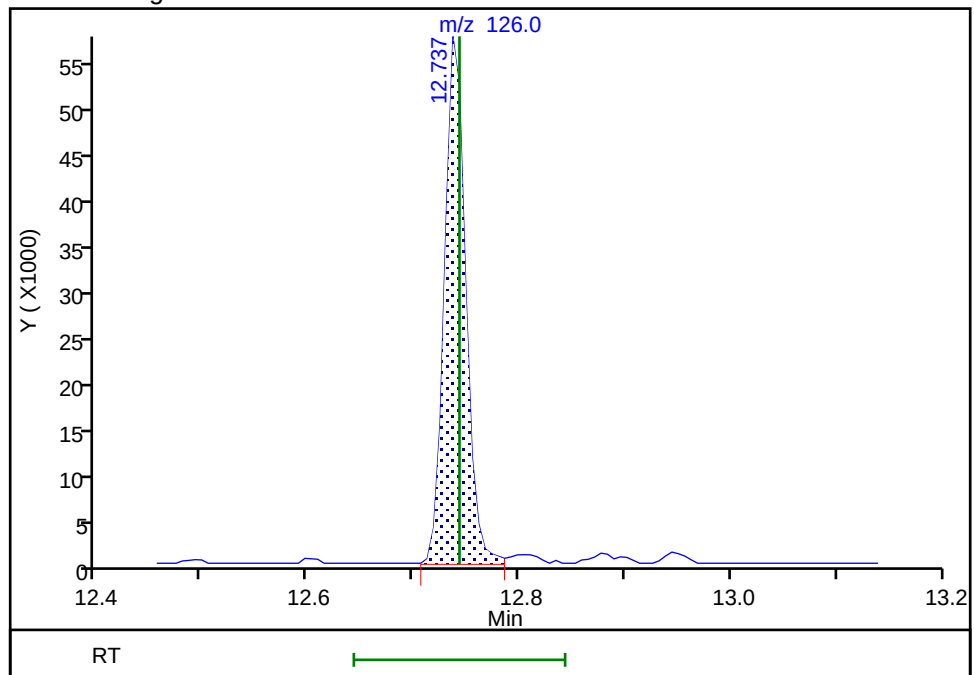
RT: 12.88
Area: 1475
Amount: 0.225445
Amount Units: ug/l

Processing Integration Results



RT: 12.74
Area: 79734
Amount: 5.556905
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:11:07 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X17.D
 Lims ID: ICIS std6
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 03-Dec-2024 17:56:30 ALS Bottle#: 7 Worklist Smp#: 18
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0132221-018
 Misc. Info.: ICIS STD6
 Operator ID: knk41612 Instrument ID: 16334
 Sublist: chrom-MSV_16334_25mL*sub4
 Method: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Dec-2024 09:42:36 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1610

First Level Reviewer: DVW2

Date: 04-Dec-2024 08:10:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.709	1.709	0.000	99	654728	10.0	10.1	
5 Chloromethane	50	1.879	1.879	0.000	99	725018	10.0	9.31	
7 Butadiene	39	1.965	1.965	0.000	90	692654	10.0	9.66	
6 Vinyl chloride	62	1.977	1.977	0.000	98	674953	10.0	9.57	
9 Bromomethane	94	2.269	2.269	0.000	92	422617	10.0	9.21	M
10 Chloroethane	64	2.306	2.306	0.000	100	315535	10.0	8.85	
11 Dichlorofluoromethane	67	2.507	2.507	0.000	96	921288	10.0	9.23	
12 Trichlorofluoromethane	101	2.599	2.599	0.000	98	761739	10.0	9.75	
13 Ethyl ether	59	2.763	2.763	0.000	91	275384	10.0	9.62	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.843	2.843	0.000	91	534020	10.0	9.06	
17 Acrolein	56	2.910	2.910	0.000	100	1763294	487.9	541.6	M
18 1,1-Dichloroethene	96	3.025	3.025	0.000	98	429658	10.0	9.39	
19 Acetone	43	3.062	3.062	0.000	69	400224	100.0	86.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.068	3.068	0.000	93	481404	10.0	10.0	
22 Iodomethane	142	3.190	3.190	0.000	100	855203	10.0	9.66	
21 Isopropyl alcohol	45	3.178	3.178	0.000	26	115993	200.0	224.6	M
23 Ethyl bromide	108	3.214	3.214	0.000	99	404514	10.0	10.0	
24 Carbon disulfide	76	3.275	3.275	0.000	99	1637209	10.0	9.76	
25 Methyl acetate	43	3.409	3.409	0.000	23	207094	10.0	10.6	M
27 3-Chloro-1-propene	41	3.422	3.422	0.000	93	763949	10.0	9.60	
29 Methylene Chloride	84	3.580	3.580	0.000	92	481443	10.0	9.51	
* 30 t-Butyl alcohol-d10 (IS)	65	3.629	3.629	0.000	100	80518	50.0	50.0	M
31 2-Methyl-2-propanol	59	3.720	3.720	0.000	99	179876	200.0	190.1	
32 Acrylonitrile	53	3.879	3.879	0.000	99	161520	25.0	25.5	
34 trans-1,2-Dichloroethene	96	3.934	3.934	0.000	99	516700	10.0	9.61	
33 Methyl tert-butyl ether	73	3.928	3.928	0.000	96	1025431	10.0	10.0	
35 Hexane	57	4.330	4.330	0.000	91	733509	10.0	10.4	
37 1,1-Dichloroethane	63	4.562	4.562	0.000	96	944776	10.0	9.69	
38 Isopropyl ether	45	4.635	4.635	0.000	94	1532789	10.0	10.0	
39 2-Chloro-1,3-butadiene	53	4.678	4.678	0.000	90	760188	10.0	10.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.190	5.190	0.000	98	1365983	10.0	10.1	
41 2-Butanone (MEK)	43	5.391	5.391	0.000	99	808081	100.0	102.1	
42 cis-1,2-Dichloroethene	96	5.421	5.421	0.000	82	576496	10.0	9.80	
43 2,2-Dichloropropane	77	5.440	5.440	0.000	86	794372	10.0	9.57	a
45 Propionitrile	54	5.488	5.488	0.000	99	459203	200.0	196.1	
48 Methacrylonitrile	67	5.702	5.702	0.000	91	930194	100.0	108.9	
49 Chlorobromomethane	128	5.757	5.757	0.000	93	223982	10.0	10.1	
50 Tetrahydrofuran	71	5.781	5.781	0.000	86	119325	50.0	52.7	
51 Chloroform	83	5.921	5.921	0.000	93	923970	10.0	9.66	
53 1,1,1-Trichloroethane	97	6.141	6.141	0.000	98	808976	10.0	9.56	
\$ 52 Dibromofluoromethane (Surr)	113	6.141	6.141	0.000	92	485373	10.0	10.1	
54 Cyclohexane	56	6.244	6.244	0.000	89	871204	10.0	10.3	
55 Carbon tetrachloride	117	6.360	6.360	0.000	96	705791	10.0	9.75	
56 1,1-Dichloropropene	75	6.366	6.366	0.000	98	745514	10.0	9.87	
58 Isobutyl alcohol	41	6.567	6.567	0.000	91	189328	500.0	513.6	M
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.592	6.592	0.000	89	93861	10.0	10.3	
60 Benzene	78	6.628	6.628	0.000	97	2155320	10.0	9.56	
61 1,2-Dichloroethane	62	6.702	6.702	0.000	97	497648	10.0	9.64	M
63 Tert-amyl methyl ether	73	6.842	6.842	0.000	99	1140045	10.0	10.2	
* 64 Fluorobenzene (IS)	96	7.049	7.049	0.000	98	2029850	10.0	10.0	
65 n-Heptane	43	7.073	7.073	0.000	94	705660	10.0	10.2	
67 n-Butanol	56	7.482	7.482	0.000	91	282300	875.0	854.2	
68 Trichloroethene	95	7.537	7.537	0.000	99	566926	10.0	9.79	
69 Methylcyclohexane	83	7.842	7.842	0.000	91	929220	10.0	10.5	
70 1,2-Dichloropropane	63	7.872	7.872	0.000	97	535168	10.0	9.81	
71 2-ethoxy-2-methyl butane	87	7.909	7.909	0.000	95	804347	10.0	10.2	
74 Dibromomethane	93	7.982	7.982	0.000	97	220005	10.0	9.83	
73 1,4-Dioxane	88	7.976	7.976	0.000	30	54833	500.0	532.7	M
72 Methyl methacrylate	69	7.988	7.988	0.000	91	174082	10.0	10.7	
76 Dichlorobromomethane	83	8.232	8.232	0.000	100	625244	10.0	10.0	
77 2-Nitropropane	41	8.512	8.512	0.000	99	243849	50.0	49.3	
79 1-Bromo-2-chloroethane	63	8.622	8.622	0.000	99	490806	10.0	10.5	
81 cis-1,3-Dichloropropene	75	8.799	8.799	0.000	97	784476	10.0	10.2	
82 4-Methyl-2-pentanone (MIBK)	43	9.006	9.006	0.000	96	2194385	100.0	107.2	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	2060036	10.0	10.0	
84 Toluene	92	9.225	9.225	0.000	98	1387859	10.0	9.72	
85 trans-1,3-Dichloropropene	75	9.518	9.518	0.000	92	617479	10.0	10.3	
86 Ethyl methacrylate	69	9.609	9.609	0.000	88	398554	10.0	11.1	
107 1,1,2-Trichloroethane	97	9.737	9.737	0.000	91	323678	10.0	9.81	
108 Tetrachloroethene	166	9.823	9.823	0.000	97	623584	10.0	9.68	
109 1,3-Dichloropropane	76	9.908	9.908	0.000	89	571245	10.0	10.0	
110 2-Hexanone	43	9.987	9.987	0.000	96	1545408	100.0	108.7	
112 Chlorodibromomethane	129	10.134	10.134	0.000	92	412795	10.0	10.3	
113 Ethylene Dibromide	107	10.243	10.243	0.000	98	303700	10.0	10.4	
* 114 Chlorobenzene-d5 (IS)	117	10.707	10.707	0.000	85	1481835	10.0	10.0	
116 Chlorobenzene	112	10.731	10.731	0.000	95	1550930	10.0	9.67	
115 1-Chlorohexane	91	10.731	10.731	0.000	96	743300	10.0	9.67	
117 1,1,1,2-Tetrachloroethane	131	10.823	10.823	0.000	96	517028	10.0	9.94	
118 Ethylbenzene	91	10.829	10.829	0.000	98	2764550	10.0	9.95	
120 m-Xylene & p-Xylene	106	10.951	10.951	0.000	100	2143990	20.0	20.0	
121 o-Xylene	106	11.292	11.292	0.000	96	1032187	10.0	10.1	
122 Styrene	104	11.310	11.310	0.000	95	1671286	10.0	10.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 Bromoform	173	11.463	11.463	0.000	96	218778	10.0	10.5	
124 Isopropylbenzene	105	11.603	11.603	0.000	95	2457615	10.0	10.2	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.743	11.743	0.000	89	717786	10.0	10.1	
128 1,1,2,2-Tetrachloroethane	83	11.859	11.859	0.000	94	370026	10.0	10.1	
129 Bromobenzene	156	11.859	11.859	0.000	93	607331	10.0	9.86	
130 trans-1,4-Dichloro-2-butene	53	11.883	11.883	0.000	91	890726	100.0	102.1	
131 1,2,3-Trichloropropane	110	11.902	11.902	0.000	78	97608	10.0	9.97	
132 N-Propylbenzene	91	11.938	11.938	0.000	99	3294955	10.0	9.96	
133 2-Chlorotoluene	126	12.011	12.011	0.000	96	638769	10.0	9.71	
134 1,3,5-Trimethylbenzene	105	12.085	12.085	0.000	93	2376550	10.0	10.2	
135 4-Chlorotoluene	126	12.103	12.103	0.000	98	670929	10.0	9.86	
136 tert-Butylbenzene	134	12.322	12.322	0.000	93	511570	10.0	10.1	
137 Pentachloroethane	167	12.353	12.353	0.000	92	372186	10.0	10.7	
138 1,2,4-Trimethylbenzene	105	12.365	12.365	0.000	97	2452311	10.0	10.3	
139 sec-Butylbenzene	105	12.487	12.487	0.000	94	3076991	10.0	10.2	
140 1,3-Dichlorobenzene	146	12.585	12.585	0.000	98	1283400	10.0	9.79	
141 4-Isopropyltoluene	119	12.603	12.603	0.000	97	2658919	10.0	10.3	
* 142 1,4-Dichlorobenzene-d4	152	12.639	12.639	0.000	95	792188	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.658	12.658	0.000	95	1268318	10.0	9.47	
144 1,2,3-Trimethylbenzene	120	12.676	12.676	0.000	98	1008016	10.0	9.87	
145 Benzyl chloride	126	12.737	12.737	0.000	98	158969	10.0	10.7	a
146 p-Diethylbenzene	119	12.877	12.877	0.000	93	1621004	10.0	10.2	
147 n-Butylbenzene	92	12.895	12.895	0.000	97	1343790	10.0	10.1	
148 1,2-Dichlorobenzene	146	12.920	12.920	0.000	98	1098625	10.0	9.66	
150 1,2-Dibromo-3-Chloropropane	155	13.462	13.462	0.000	83	46064	10.0	10.7	
151 1,3,5-Trichlorobenzene	180	13.590	13.590	0.000	98	1021576	10.0	9.91	
152 1,2,4-Trichlorobenzene	180	14.011	14.011	0.000	94	818098	10.0	9.95	
153 Hexachlorobutadiene	225	14.103	14.103	0.000	98	441283	10.0	9.84	
154 Naphthalene	128	14.188	14.188	0.000	97	1167840	10.0	10.7	
155 1,2,3-Trichlorobenzene	180	14.334	14.334	0.000	96	645626	10.0	10.1	
156 2-Methylnaphthalene	142	14.919	14.919	0.000	92	588715	10.0	9.80	
167 Pentane	43	2.769	2.769	0.000	39	47154	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00155

Amount Added: 10.00

Units: uL

MSV_LL_#2_826_00163

Amount Added: 10.00

Units: uL

MSV_LL_GAS826_00247

Amount Added: 10.00

Units: uL

MSV_29_826ISS_00057

Amount Added: 1.20

Units: uL

Run Reagent

Report Date: 09-Dec-2024 09:42:38

Chrom Revision: 2.3 12-Nov-2024 16:55:22

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X17.D

Injection Date: 03-Dec-2024 17:56:30

Instrument ID: 16334

Operator ID: knk41612

Lims ID: ICIS std6

Worklist Smp#: 18

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

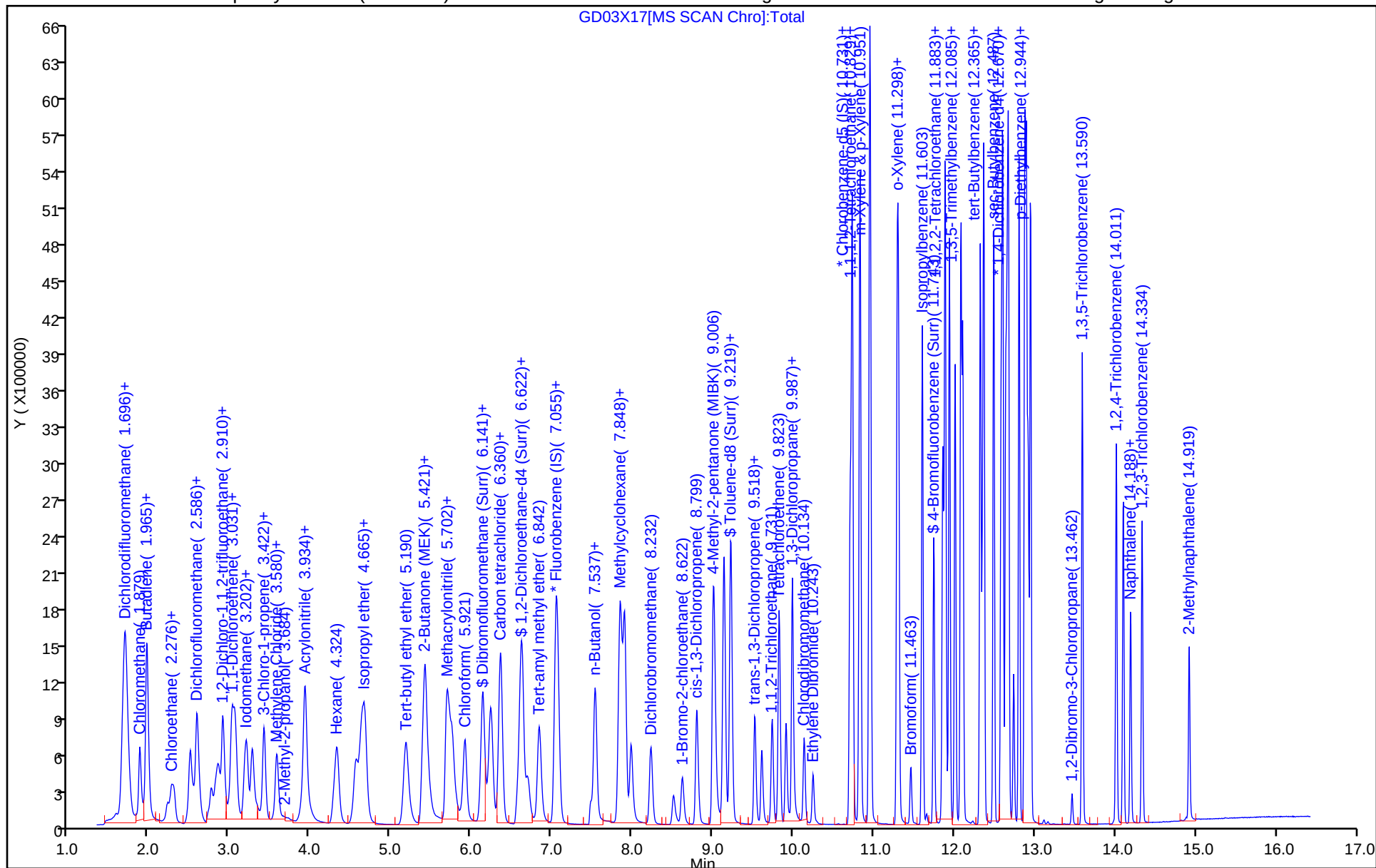
ALS Bottle#: 7

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

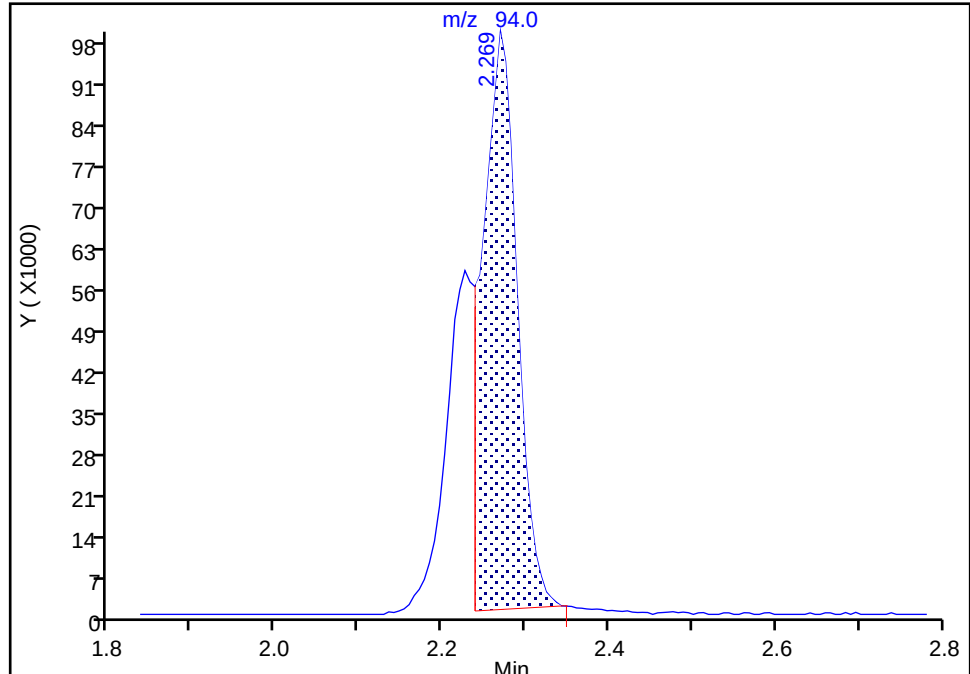
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Injection Date: 03-Dec-2024 17:56:30 Instrument ID: 16334
Lims ID: ICIS std6
Client ID:
Operator ID: knk41612 ALS Bottle#: 7 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

9 Bromomethane, CAS: 74-83-9

Signal: 1

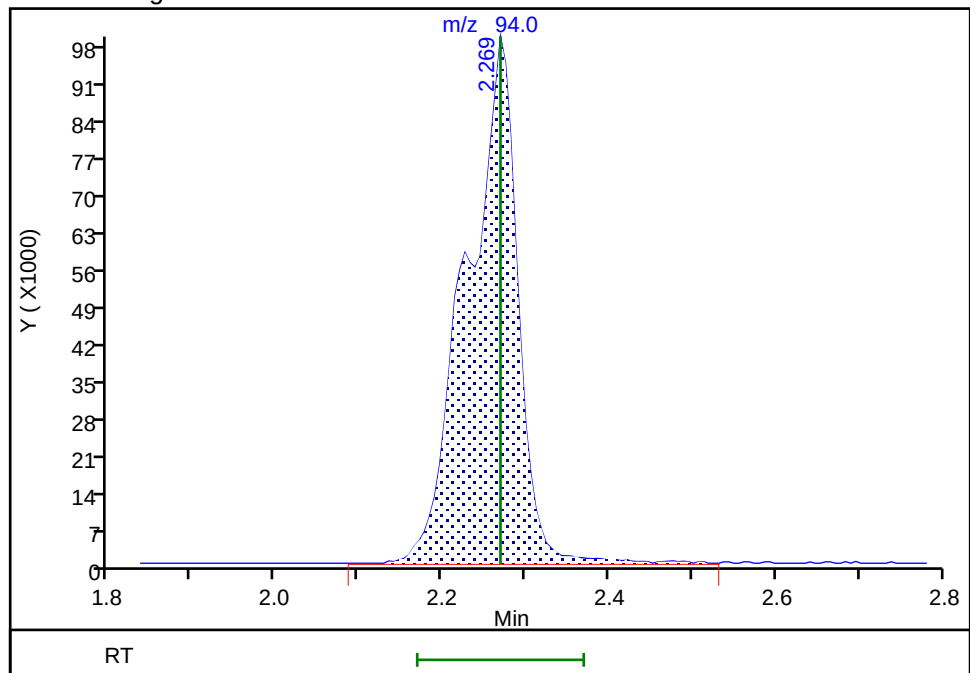
RT: 2.27
Area: 284538
Amount: 6.479038
Amount Units: ug/l

Processing Integration Results



RT: 2.27
Area: 422617
Amount: 9.209497
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:55:14 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

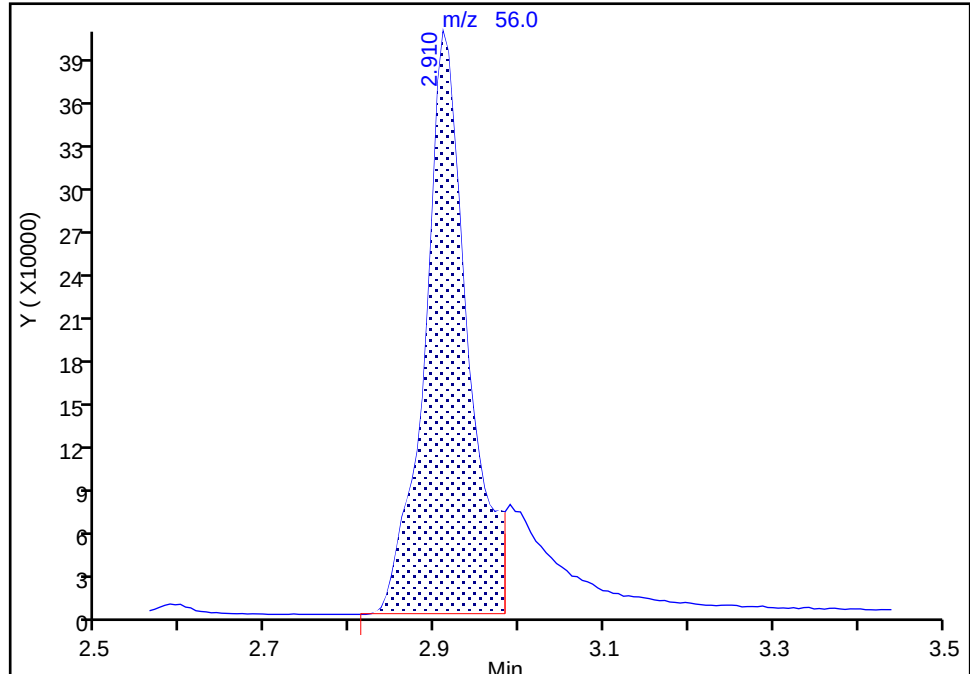
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X17.D
Injection Date: 03-Dec-2024 17:56:30 Instrument ID: 16334
Lims ID: ICIS std6
Client ID:
Operator ID: knk41612 ALS Bottle#: 7 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

17 Acrolein, CAS: 107-02-8

Signal: 1

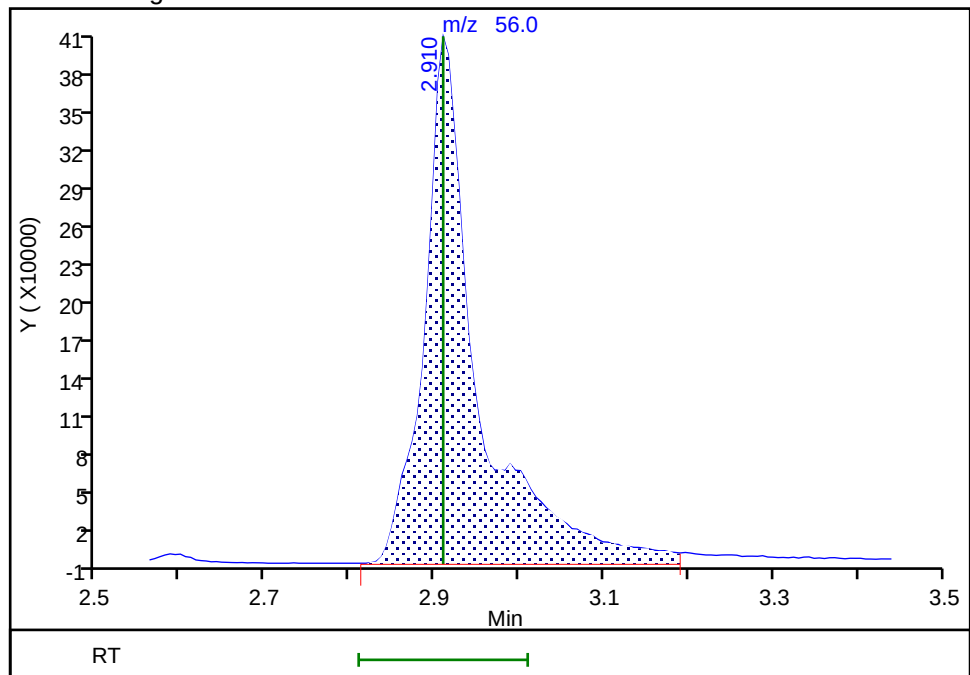
RT: 2.91
Area: 1420907
Amount: 486.1264
Amount Units: ug/l

Processing Integration Results



RT: 2.91
Area: 1763294
Amount: 541.6306
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:41:24 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

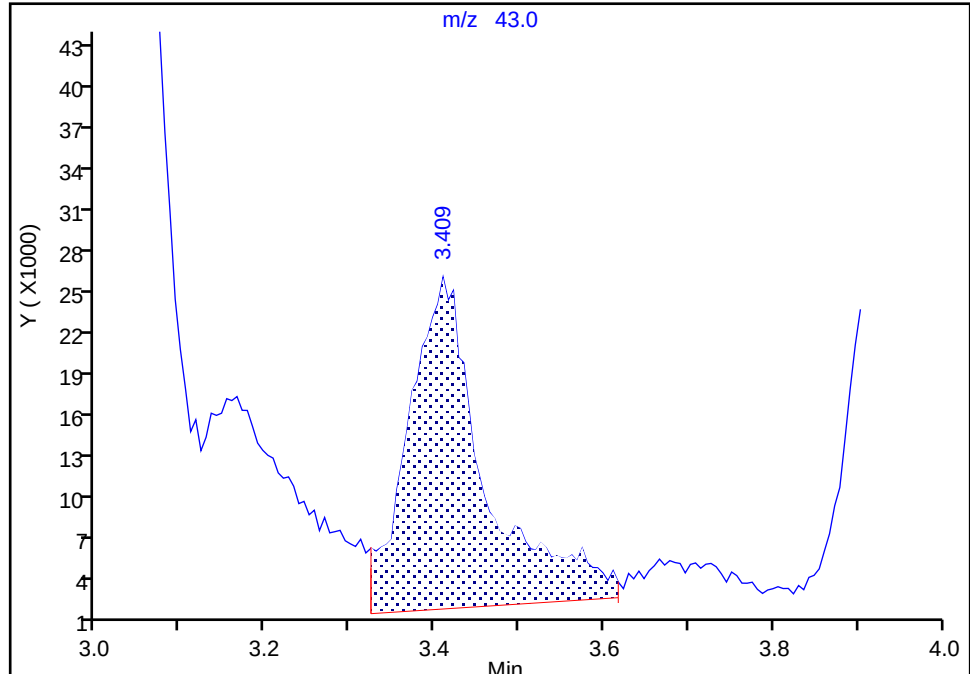
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Injection Date: 03-Dec-2024 17:56:30 Instrument ID: 16334
Lims ID: ICIS std6
Client ID:
Operator ID: knk41612 ALS Bottle#: 7 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Methyl acetate, CAS: 79-20-9

Signal: 1

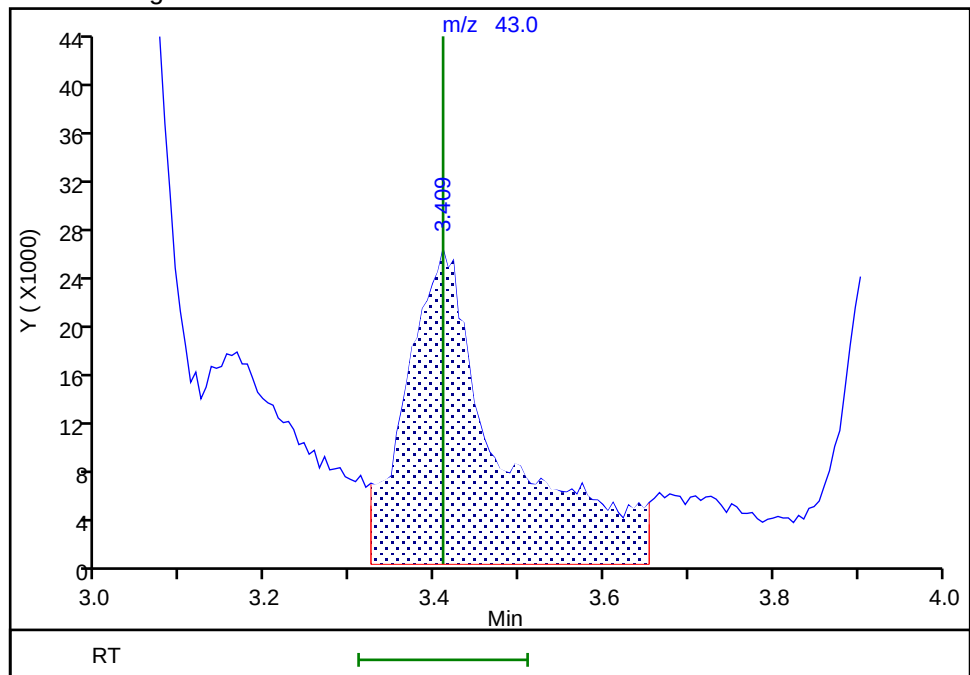
RT: 3.41
Area: 152404
Amount: 12.523636
Amount Units: ug/l

Processing Integration Results



RT: 3.41
Area: 207094
Amount: 10.628721
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:36:06 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

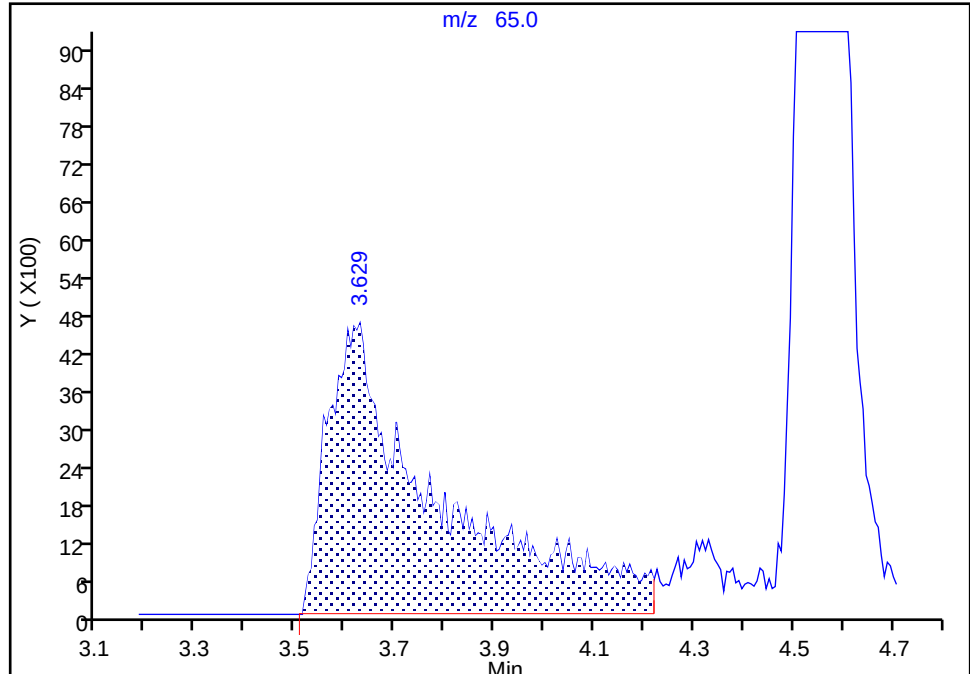
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Injection Date: 03-Dec-2024 17:56:30 Instrument ID: 16334
Lims ID: ICIS std6
Client ID:
Operator ID: knk41612 ALS Bottle#: 7 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

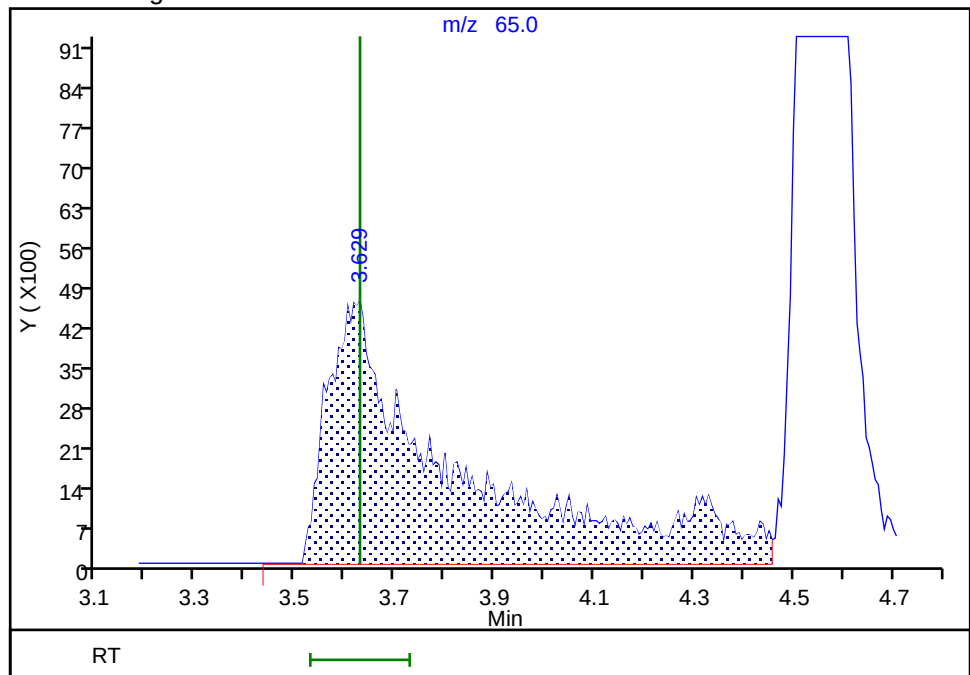
RT: 3.63
Area: 70677
Amount: 49.998300
Amount Units: ug/l

Processing Integration Results



RT: 3.63
Area: 80518
Amount: 49.998300
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:09:19 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

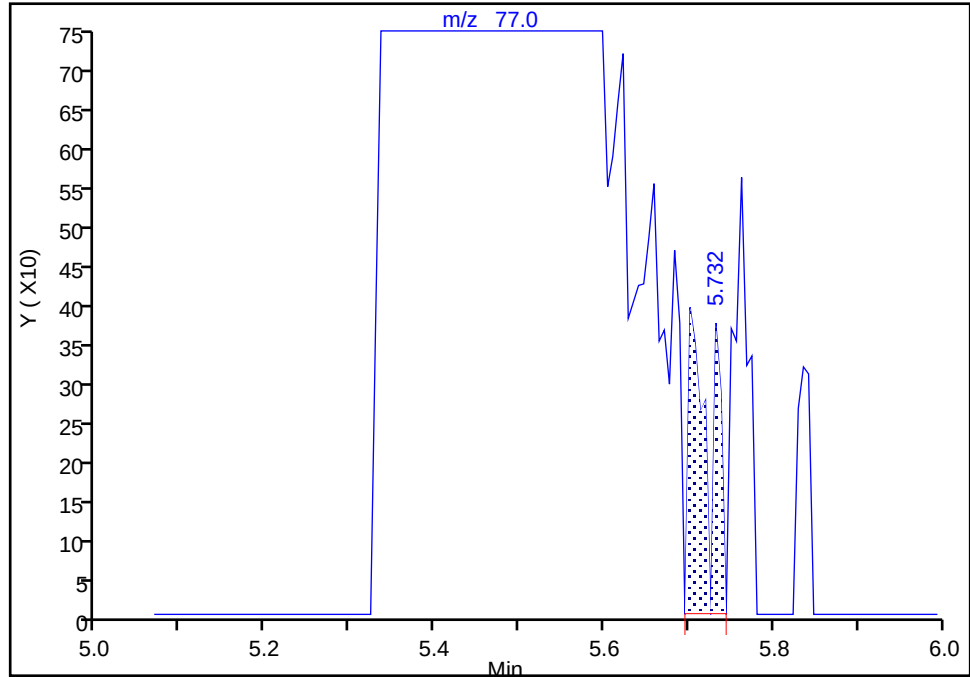
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Injection Date: 03-Dec-2024 17:56:30 Instrument ID: 16334
Lims ID: ICIS std6
Client ID:
Operator ID: knk41612 ALS Bottle#: 7 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

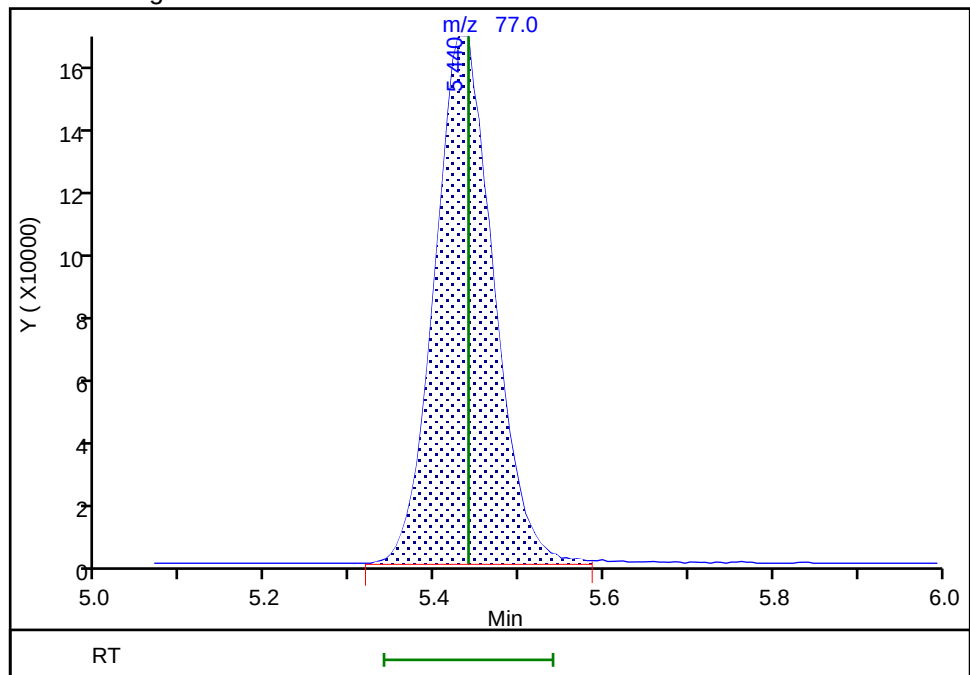
RT: 5.73
Area: 704
Amount: 13.738635
Amount Units: ug/l

Processing Integration Results



RT: 5.44
Area: 794372
Amount: 9.572471
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:09:46 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

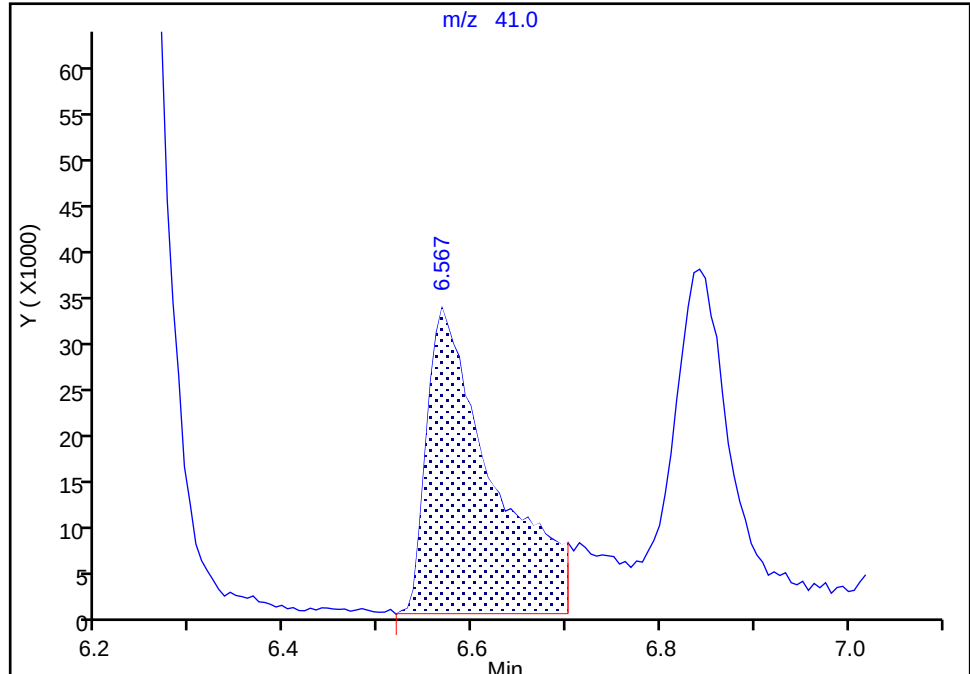
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Injection Date: 03-Dec-2024 17:56:30 Instrument ID: 16334
Lims ID: ICIS std6
Client ID:
Operator ID: knk41612 ALS Bottle#: 7 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

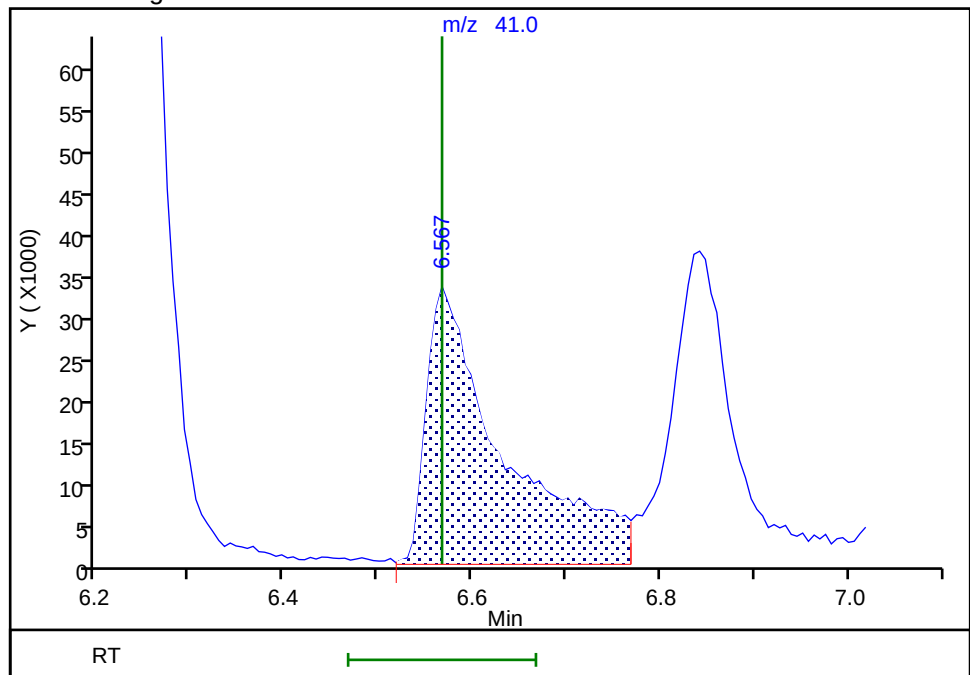
RT: 6.57
Area: 163223
Amount: 517.6961
Amount Units: ug/l

Processing Integration Results



RT: 6.57
Area: 189328
Amount: 513.6018
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:37:04 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

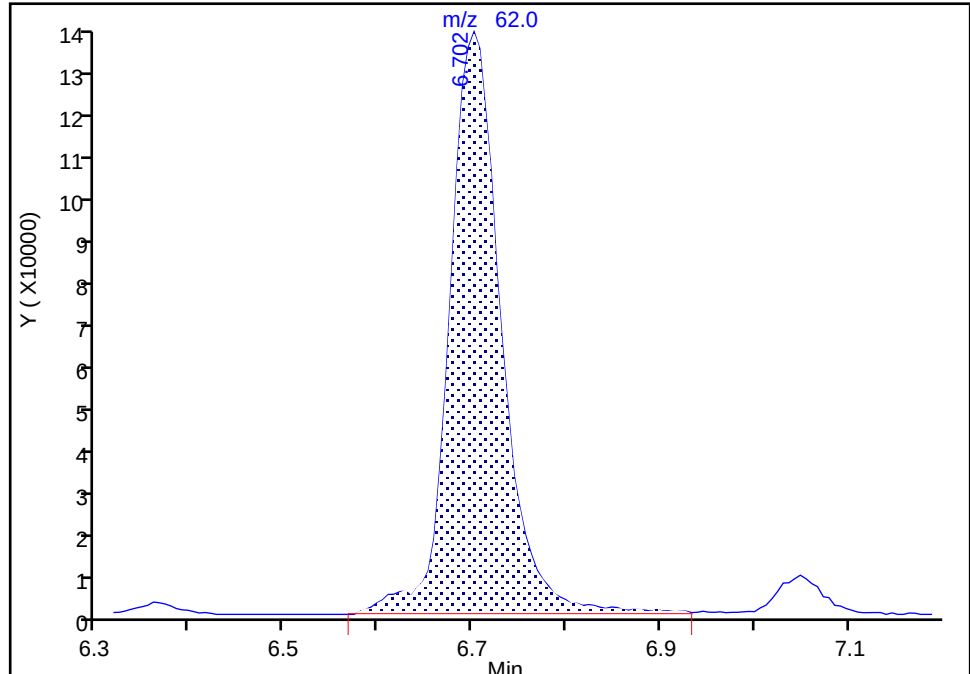
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Injection Date: 03-Dec-2024 17:56:30 Instrument ID: 16334
Lims ID: ICIS std6
Client ID:
Operator ID: knk41612 ALS Bottle#: 7 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

61 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

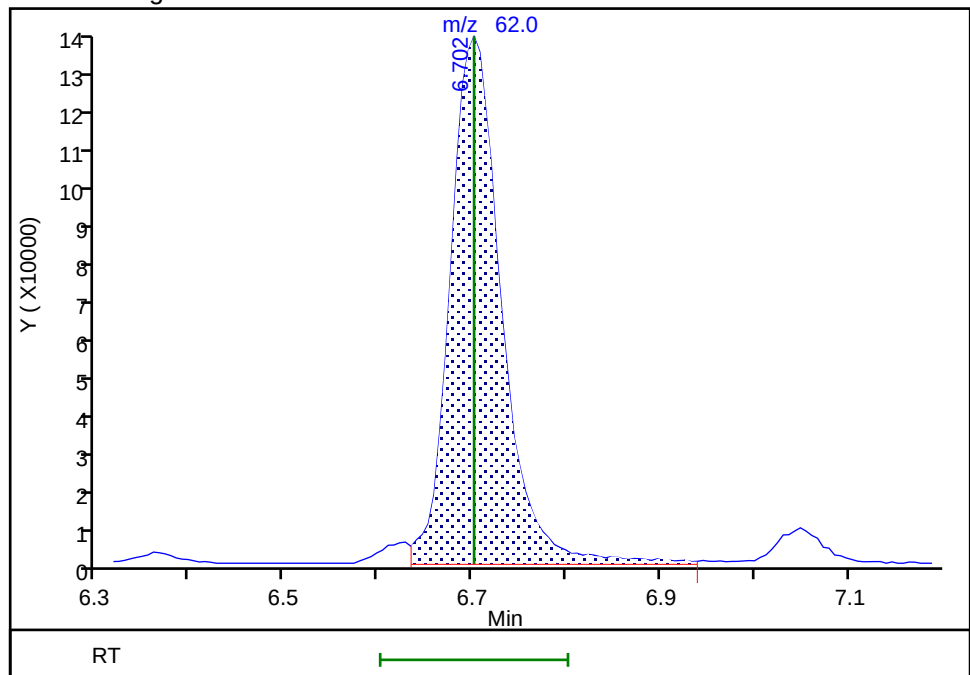
RT: 6.70
Area: 507942
Amount: 9.782178
Amount Units: ug/l

Processing Integration Results



RT: 6.70
Area: 497648
Amount: 9.635710
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:23:05 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Shouldering

Eurofins Lancaster Laboratories Environment Testing, LLC

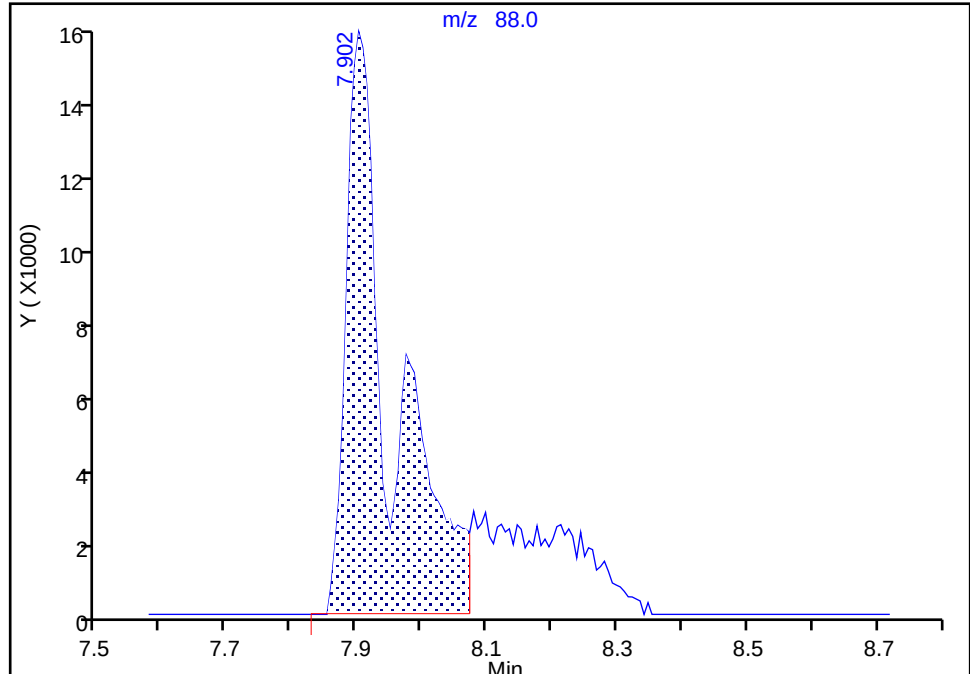
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Injection Date: 03-Dec-2024 17:56:30 Instrument ID: 16334
Lims ID: ICIS std6
Client ID:
Operator ID: knk41612 ALS Bottle#: 7 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

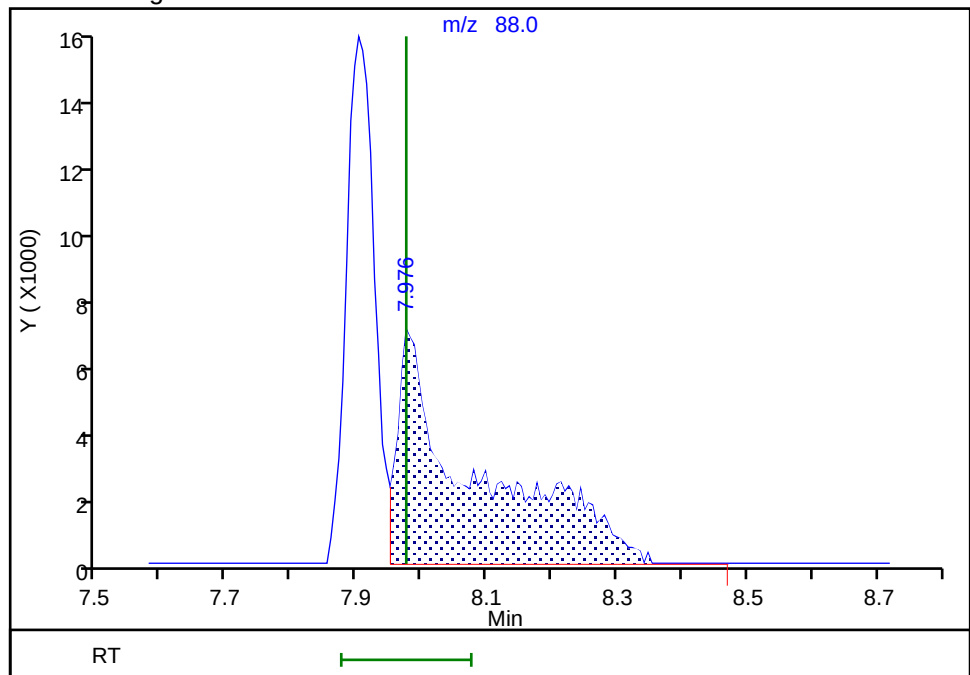
RT: 7.90
Area: 72752
Amount: 462.9532
Amount Units: ug/l

Processing Integration Results



RT: 7.98
Area: 54833
Amount: 532.6992
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:10:18 -05:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

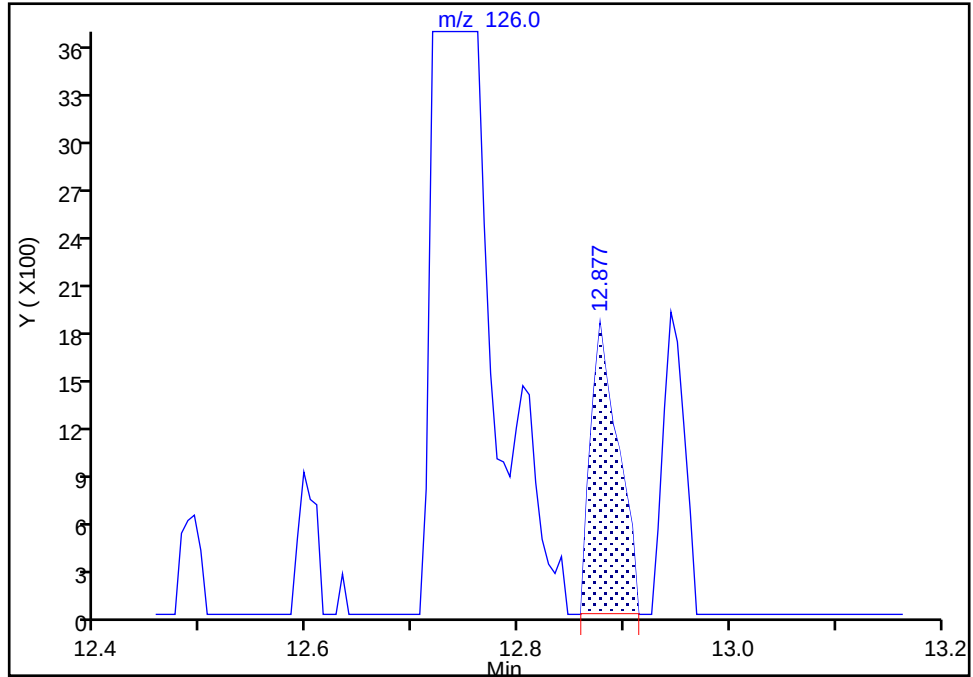
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Injection Date: 03-Dec-2024 17:56:30 Instrument ID: 16334
Lims ID: ICIS std6
Client ID:
Operator ID: knk41612 ALS Bottle#: 7 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

145 Benzyl chloride, CAS: 100-44-7

Signal: 1

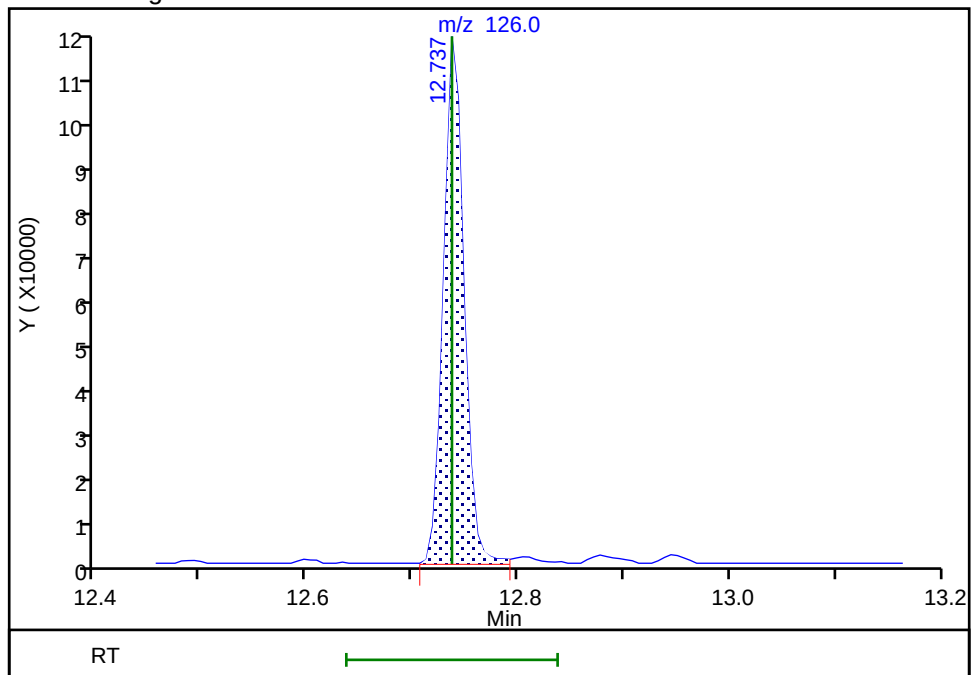
RT: 12.88
Area: 3370
Amount: 13.197255
Amount Units: ug/l

Processing Integration Results



RT: 12.74
Area: 158969
Amount: 10.680912
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:10:37 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Lims ID: IC std7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 03-Dec-2024 18:18:30 ALS Bottle#: 8 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0132221-019
 Misc. Info.: IC STD7
 Operator ID: knk41612 Instrument ID: 16334
 Sublist: chrom-MSV_16334_25mL*sub4
 Method: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Dec-2024 09:42:46 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1610

First Level Reviewer: DVW2

Date: 04-Dec-2024 08:11:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.709	1.709	0.000	99	1656902	25.0	25.4	
5 Chloromethane	50	1.885	1.879	0.006	99	1828944	25.0	23.4	
7 Butadiene	39	1.965	1.965	0.000	91	1749685	25.0	24.3	
6 Vinyl chloride	62	1.983	1.977	0.006	98	1724907	25.0	24.3	
9 Bromomethane	94	2.276	2.269	0.007	91	1046630	25.0	22.7	M
10 Chloroethane	64	2.306	2.306	0.000	100	827463	25.0	23.1	
11 Dichlorofluoromethane	67	2.513	2.507	0.006	97	2402364	25.0	23.9	
12 Trichlorofluoromethane	101	2.605	2.599	0.006	98	1934004	25.0	24.6	
13 Ethyl ether	59	2.769	2.763	0.006	90	701826	25.0	24.4	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.849	2.843	0.007	93	1485822	25.0	25.1	
17 Acrolein	56	2.916	2.910	0.006	99	5285090	1219.8	1531.4	Ma
18 1,1-Dichloroethene	96	3.032	3.025	0.007	98	1124723	25.0	24.4	
19 Acetone	43	3.056	3.062	-0.006	67	1051222	250.0	214.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.068	3.068	0.000	93	1239621	25.0	25.6	
21 Isopropyl alcohol	45	3.214	3.178	0.036	31	296234	500.0	570.5	
22 Iodomethane	142	3.190	3.190	0.000	99	2244364	25.0	25.2	
23 Ethyl bromide	108	3.214	3.214	0.000	98	1016730	25.0	25.1	
24 Carbon disulfide	76	3.282	3.275	0.007	99	4252460	25.0	25.2	
25 Methyl acetate	43	3.416	3.409	0.007	94	509423	25.0	24.7	M
27 3-Chloro-1-propene	41	3.428	3.422	0.006	93	2013079	25.0	25.2	
29 Methylene Chloride	84	3.586	3.580	0.006	92	1261862	25.0	24.8	
* 30 t-Butyl alcohol-d10 (IS)	65	3.623	3.629	-0.006	99	85355	50.0	50.0	M
31 2-Methyl-2-propanol	59	3.720	3.720	0.000	99	477820	500.0	476.3	
32 Acrylonitrile	53	3.879	3.879	0.000	98	432781	62.5	64.5	
33 Methyl tert-butyl ether	73	3.934	3.928	0.006	76	2724781	25.0	26.5	
34 trans-1,2-Dichloroethene	96	3.934	3.934	0.000	99	1365879	25.0	25.3	
35 Hexane	57	4.330	4.330	0.000	91	1868531	25.0	26.4	
37 1,1-Dichloroethane	63	4.568	4.562	0.006	96	2490248	25.0	25.4	
38 Isopropyl ether	45	4.641	4.635	0.006	94	4079586	25.0	26.5	
39 2-Chloro-1,3-butadiene	53	4.678	4.678	0.000	90	2007829	25.0	26.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.196	5.190	0.006	97	3693215	25.0	27.2	
41 2-Butanone (MEK)	43	5.397	5.391	0.006	100	2152705	250.0	256.5	
42 cis-1,2-Dichloroethene	96	5.421	5.421	0.000	82	1529983	25.0	25.9	
43 2,2-Dichloropropane	77	5.440	5.440	0.000	86	2091785	25.0	25.1	a
45 Propionitrile	54	5.476	5.488	-0.012	99	1253591	500.0	500.3	
48 Methacrylonitrile	67	5.702	5.702	0.000	91	2498548	250.0	276.0	
49 Chlorobromomethane	128	5.763	5.757	0.006	94	586879	25.0	26.4	
50 Tetrahydrofuran	71	5.775	5.781	-0.006	77	322011	125.0	134.1	
51 Chloroform	83	5.921	5.921	0.000	93	2421910	25.0	25.2	
53 1,1,1-Trichloroethane	97	6.147	6.141	0.006	98	2137093	25.0	25.1	
\$ 52 Dibromofluoromethane (Surr)	113	6.141	6.141	0.000	94	480706	10.0	9.98	
S 47 1,2-Dichloroethene, Total	100				0			51.1	
54 Cyclohexane	56	6.244	6.244	0.000	90	2253420	25.0	26.6	
55 Carbon tetrachloride	117	6.360	6.360	0.000	95	1860654	25.0	25.6	
56 1,1-Dichloropropene	75	6.366	6.366	0.000	98	1958625	25.0	25.8	
58 Isobutyl alcohol	41	6.567	6.567	0.000	92	523290	1250.0	1412.1	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.604	6.592	0.012	71	90205	10.0	9.82	
60 Benzene	78	6.628	6.628	0.000	96	5682289	25.0	25.1	
61 1,2-Dichloroethane	62	6.702	6.702	0.000	97	1311844	25.0	25.3	M
63 Tert-amyl methyl ether	73	6.848	6.842	0.006	99	3078503	25.0	27.3	
* 64 Fluorobenzene (IS)	96	7.049	7.049	0.000	99	2040629	10.0	10.0	
65 n-Heptane	43	7.073	7.073	0.000	91	1731722	25.0	24.9	
67 n-Butanol	56	7.476	7.482	-0.006	88	854963	2187.5	2189.0	
68 Trichloroethene	95	7.537	7.537	0.000	99	1499591	25.0	25.8	
69 Methylcyclohexane	83	7.848	7.842	0.006	92	2402775	25.0	27.0	
70 1,2-Dichloropropane	63	7.872	7.872	0.000	97	1420975	25.0	25.9	
71 2-ethoxy-2-methyl butane	87	7.909	7.909	0.000	94	2159719	25.0	27.3	
73 1,4-Dioxane	88	7.982	7.976	0.006	29	135780	1250.0	1244.3	M
74 Dibromomethane	93	7.982	7.982	0.000	97	585345	25.0	26.0	
72 Methyl methacrylate	69	7.988	7.988	0.000	90	483923	25.0	28.1	
76 Dichlorobromomethane	83	8.232	8.232	0.000	99	1679274	25.0	26.7	
77 2-Nitropropane	41	8.512	8.512	0.000	98	638287	125.0	121.7	
79 1-Bromo-2-chloroethane	63	8.622	8.622	0.000	99	1262277	25.0	26.8	
81 cis-1,3-Dichloropropene	75	8.799	8.799	0.000	97	2147298	25.0	27.9	
82 4-Methyl-2-pentanone (MIBK)	43	9.012	9.006	0.006	96	6077883	250.0	280.0	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	2063750	10.0	9.93	
84 Toluene	92	9.226	9.225	0.001	98	3673140	25.0	25.5	
85 trans-1,3-Dichloropropene	75	9.518	9.518	0.000	91	1707057	25.0	28.3	
86 Ethyl methacrylate	69	9.610	9.609	0.001	89	1123805	25.0	30.9	
107 1,1,2-Trichloroethane	97	9.738	9.737	0.001	91	846260	25.0	25.4	
108 Tetrachloroethene	166	9.823	9.823	0.000	97	1624189	25.0	25.0	
109 1,3-Dichloropropane	76	9.908	9.908	0.000	89	1516964	25.0	26.3	
110 2-Hexanone	43	9.988	9.987	0.001	96	4197920	250.0	278.4	
S 106 1,3-Dichloropropene, Total	100				0			56.1	
112 Chlorodibromomethane	129	10.134	10.134	0.000	90	1143819	25.0	28.1	
113 Ethylene Dibromide	107	10.244	10.243	0.001	99	811627	25.0	27.4	
* 114 Chlorobenzene-d5 (IS)	117	10.707	10.707	0.000	85	1496577	10.0	10.0	
116 Chlorobenzene	112	10.731	10.731	0.000	95	4100433	25.0	25.3	
115 1-Chlorohexane	91	10.731	10.731	0.000	96	1967644	25.0	25.3	
117 1,1,1,2-Tetrachloroethane	131	10.823	10.823	0.000	96	1382235	25.0	26.3	
118 Ethylbenzene	91	10.829	10.829	0.000	98	7335028	25.0	26.1	
120 m-Xylene & p-Xylene	106	10.951	10.951	0.000	100	5679046	50.0	52.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 119 Xylenes, Total	106				0			79.2	
121 o-Xylene	106	11.292	11.292	0.000	96	2763250	25.0	26.7	
122 Styrene	104	11.310	11.310	0.000	95	4514714	25.0	28.7	
123 Bromoform	173	11.463	11.463	0.000	96	612317	25.0	29.1	
124 Isopropylbenzene	105	11.603	11.603	0.000	95	6510736	25.0	26.8	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.743	11.743	0.000	89	720169	10.0	10.0	
128 1,1,2,2-Tetrachloroethane	83	11.859	11.859	0.000	90	972366	25.0	26.7	
129 Bromobenzene	156	11.859	11.859	0.000	93	1608860	25.0	26.4	
130 trans-1,4-Dichloro-2-butene	53	11.884	11.883	0.001	89	2412692	250.0	261.0	
131 1,2,3-Trichloropropane	110	11.902	11.902	0.000	77	257054	25.0	26.5	
132 N-Propylbenzene	91	11.938	11.938	0.000	99	8474479	25.0	25.9	
133 2-Chlorotoluene	126	12.012	12.011	0.001	96	1682443	25.0	25.8	
134 1,3,5-Trimethylbenzene	105	12.085	12.085	0.000	93	6235588	25.0	27.0	
135 4-Chlorotoluene	126	12.109	12.103	0.006	97	1736325	25.0	25.8	
136 tert-Butylbenzene	134	12.322	12.322	0.000	93	1325469	25.0	26.4	
137 Pentachloroethane	167	12.353	12.353	0.000	90	962016	25.0	28.1	
138 1,2,4-Trimethylbenzene	105	12.371	12.365	0.006	97	6416018	25.0	27.1	
139 sec-Butylbenzene	105	12.493	12.487	0.006	94	7858381	25.0	26.2	
140 1,3-Dichlorobenzene	146	12.585	12.585	0.001	98	3393565	25.0	26.1	
141 4-Isopropyltoluene	119	12.603	12.603	0.000	97	6883892	25.0	26.9	
* 142 1,4-Dichlorobenzene-d4	152	12.639	12.639	0.000	93	784305	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.658	12.658	0.000	95	3345472	25.0	25.2	
144 1,2,3-Trimethylbenzene	120	12.676	12.676	0.000	98	2673036	25.0	26.4	
145 Benzyl chloride	126	12.737	12.737	0.000	98	429914	25.0	29.2	a
146 p-Diethylbenzene	119	12.877	12.877	0.000	93	4228897	25.0	26.8	
147 n-Butylbenzene	92	12.896	12.895	0.001	98	3418002	25.0	26.1	
148 1,2-Dichlorobenzene	146	12.920	12.920	0.000	98	2867313	25.0	25.5	
150 1,2-Dibromo-3-Chloropropane	155	13.462	13.462	0.000	85	128125	25.0	28.0	
151 1,3,5-Trichlorobenzene	180	13.591	13.590	0.000	98	2668518	25.0	26.1	
152 1,2,4-Trichlorobenzene	180	14.011	14.011	0.000	94	2180074	25.0	26.8	
153 Hexachlorobutadiene	225	14.103	14.103	0.001	97	1106417	25.0	24.9	
154 Naphthalene	128	14.188	14.188	0.000	97	3223014	25.0	29.8	
155 1,2,3-Trichlorobenzene	180	14.334	14.334	0.000	96	1712102	25.0	27.0	
156 2-Methylnaphthalene	142	14.920	14.919	0.001	92	1716012	25.0	25.0	
167 Pentane	43	2.769	2.769	0.000	39	110841	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00155

Amount Added: 25.00

Units: uL

MSV_LL_#2_826_00163

Amount Added: 25.00

Units: uL

MSV_LL_GAS826_00247

Amount Added: 25.00

Units: uL

MSV_29_826ISS_00057

Amount Added: 1.20

Units: uL

Run Reagent

Report Date: 09-Dec-2024 09:42:47

Chrom Revision: 2.3 12-Nov-2024 16:55:22

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D

Injection Date: 03-Dec-2024 18:18:30

Instrument ID: 16334

Operator ID: knk41612

Lims ID: IC std7

Worklist Smp#: 19

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

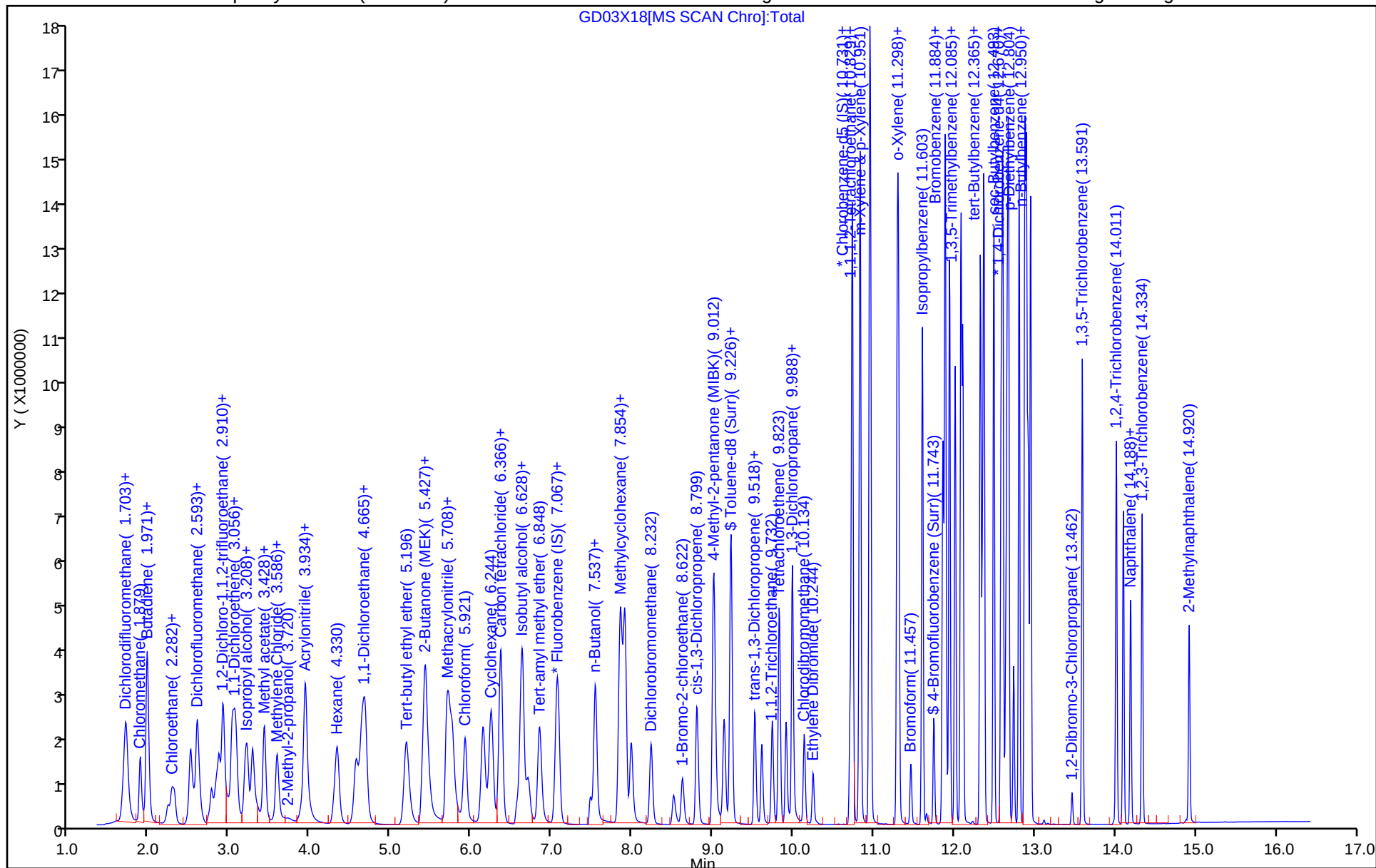
ALS Bottle#: 8

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

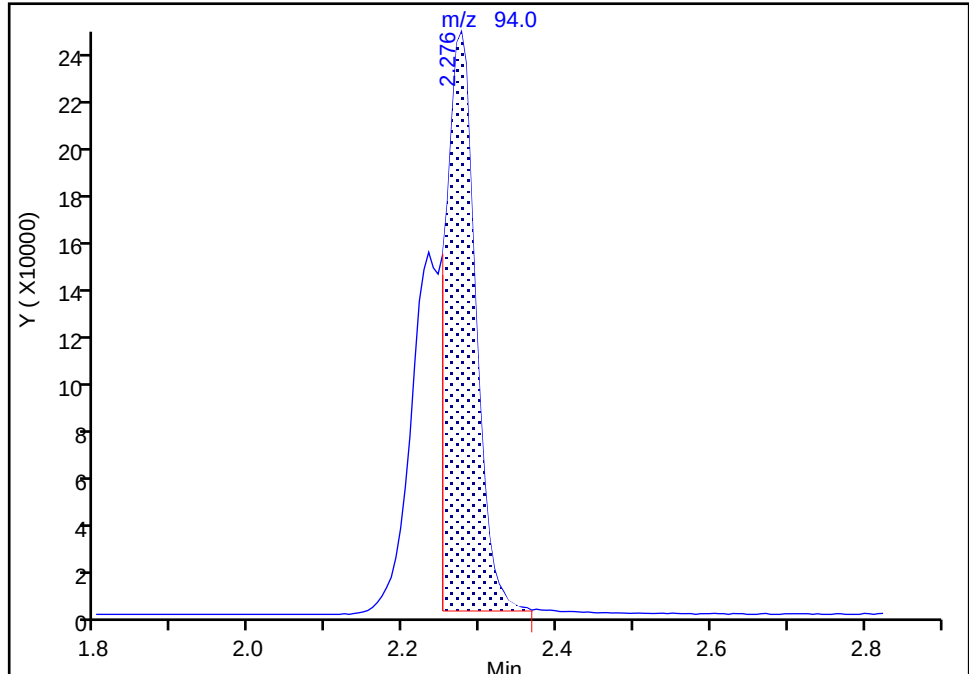
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Injection Date: 03-Dec-2024 18:18:30 Instrument ID: 16334
Lims ID: IC std7
Client ID:
Operator ID: knk41612 ALS Bottle#: 8 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

9 Bromomethane, CAS: 74-83-9

Signal: 1

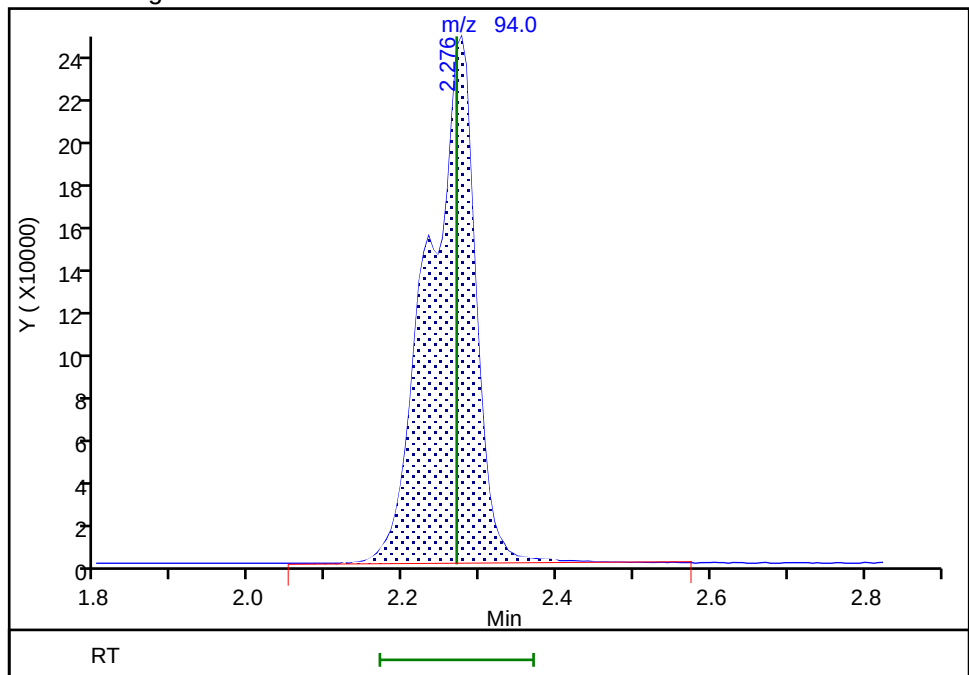
RT: 2.28
Area: 646904
Amount: 22.547043
Amount Units: ug/l

Processing Integration Results



RT: 2.28
Area: 1046630
Amount: 22.687258
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:14:12 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

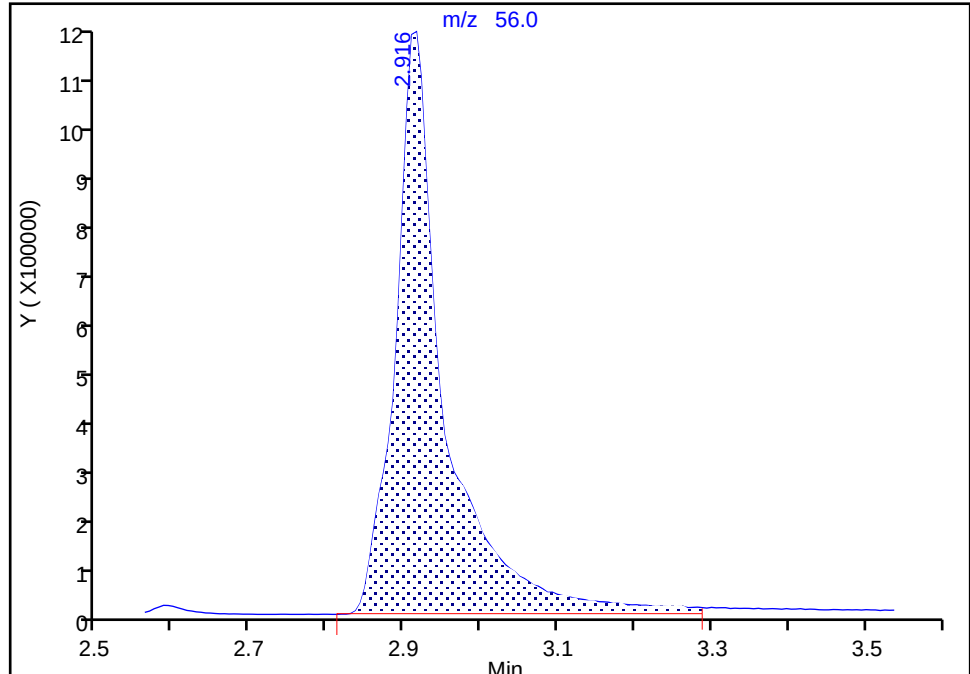
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Injection Date: 03-Dec-2024 18:18:30 Instrument ID: 16334
Lims ID: IC std7
Client ID:
Operator ID: knk41612 ALS Bottle#: 8 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

17 Acrolein, CAS: 107-02-8

Signal: 1

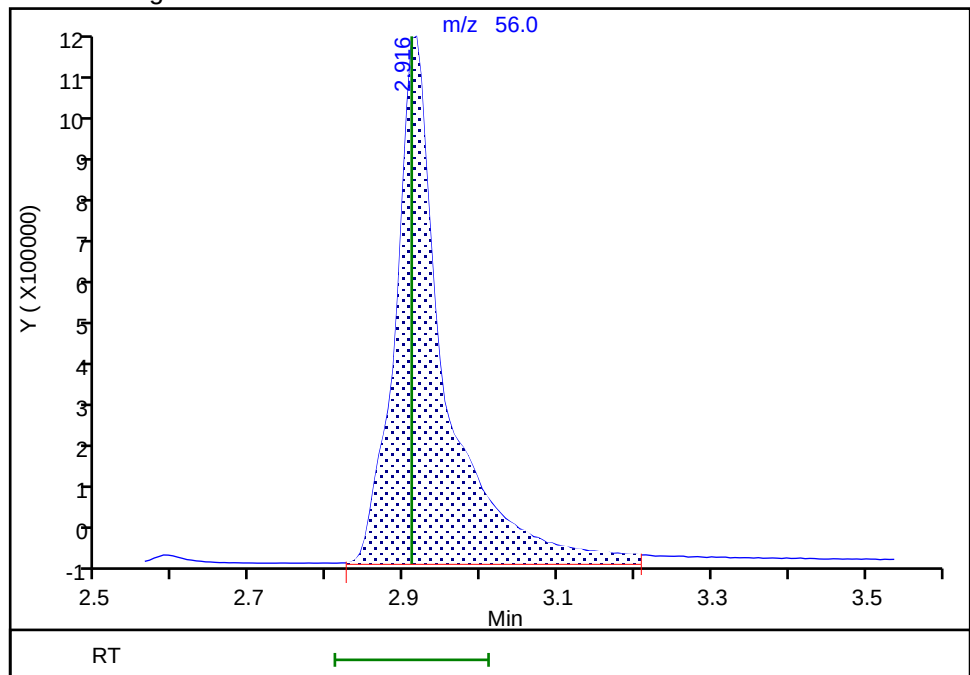
RT: 2.92
Area: 5355138
Amount: 1951.8188
Amount Units: ug/l

Processing Integration Results



RT: 2.92
Area: 5285090
Amount: 1531.4219
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:41:12 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

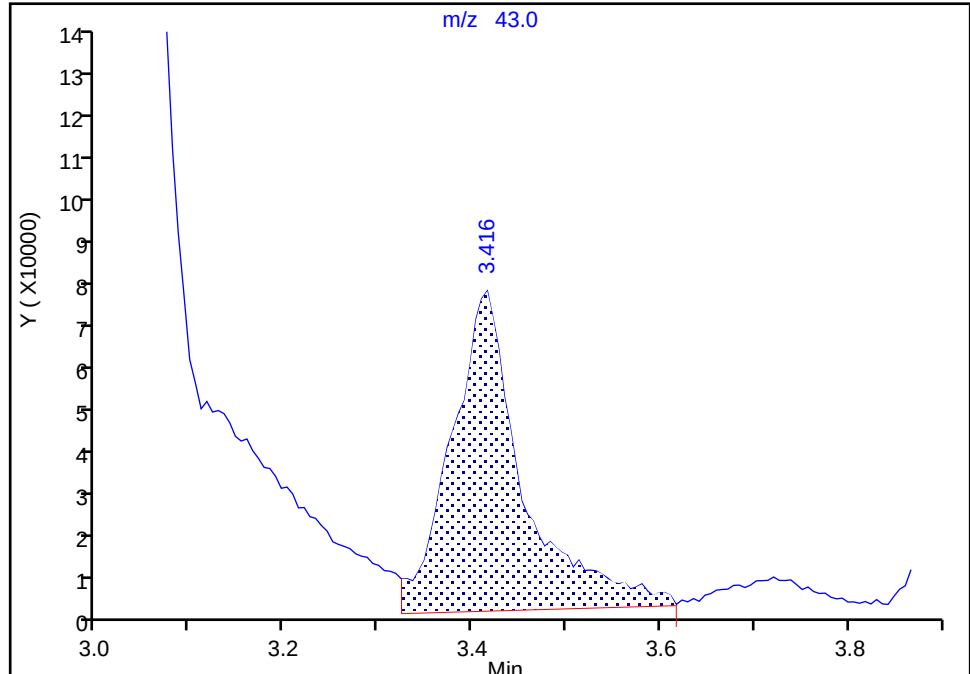
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Injection Date: 03-Dec-2024 18:18:30 Instrument ID: 16334
Lims ID: IC std7
Client ID:
Operator ID: knk41612 ALS Bottle#: 8 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Methyl acetate, CAS: 79-20-9

Signal: 1

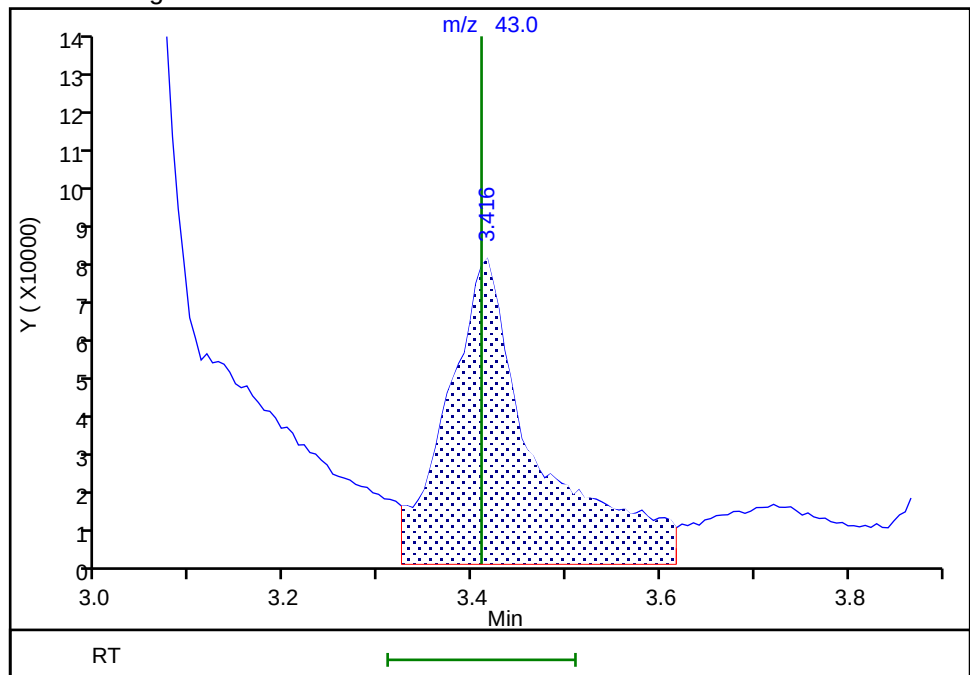
RT: 3.42
Area: 368811
Amount: 27.686950
Amount Units: ug/l

Processing Integration Results



RT: 3.42
Area: 509423
Amount: 24.663576
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:24:44 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

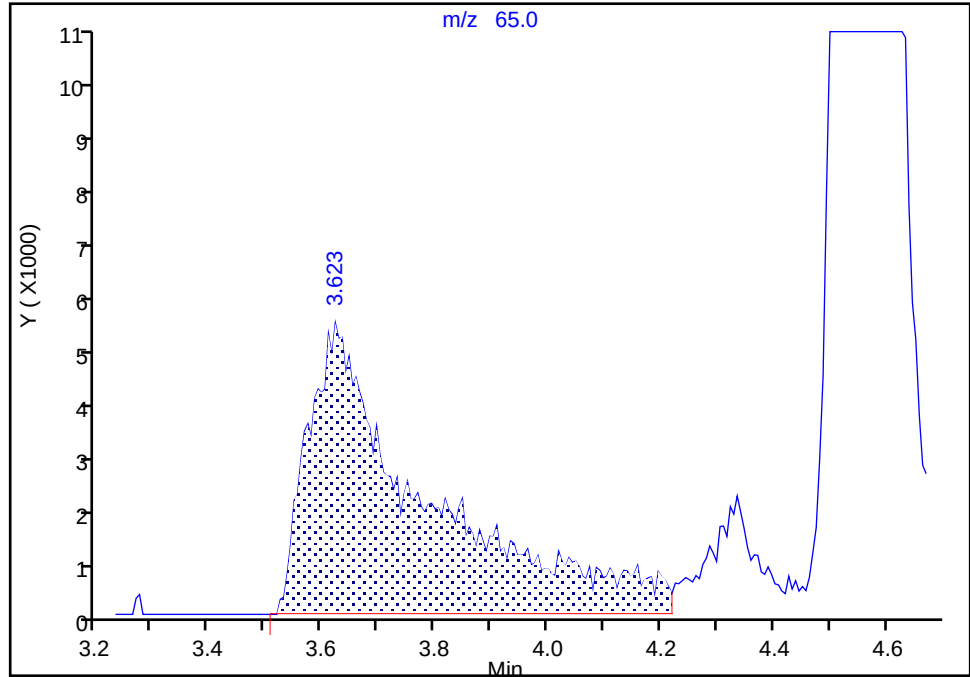
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Injection Date: 03-Dec-2024 18:18:30 Instrument ID: 16334
Lims ID: IC std7
Client ID:
Operator ID: knk41612 ALS Bottle#: 8 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

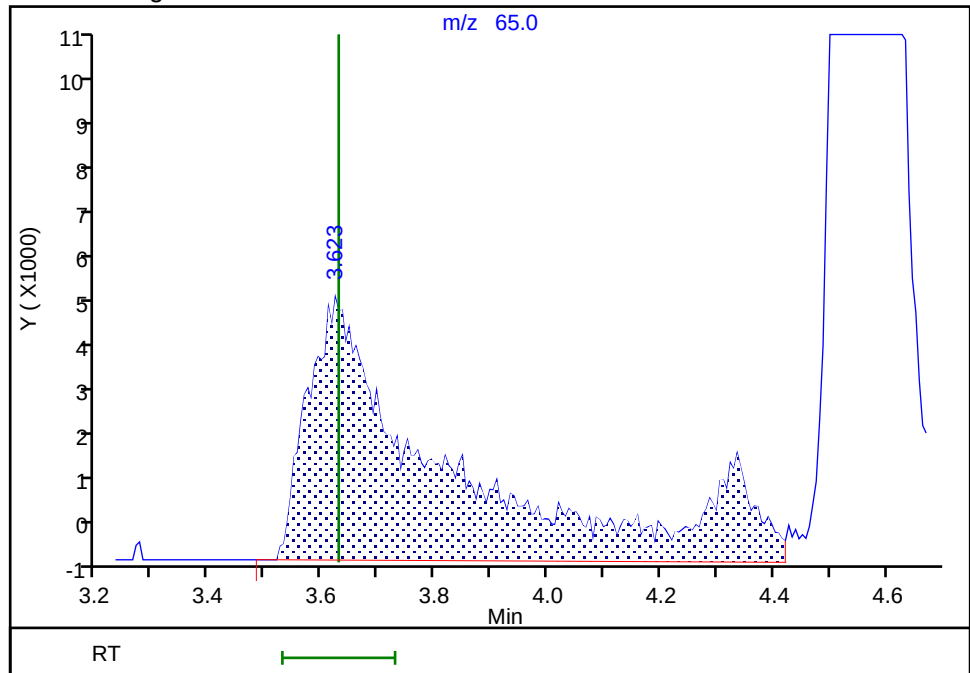
RT: 3.62
Area: 72985
Amount: 49.998300
Amount Units: ug/l

Processing Integration Results



RT: 3.62
Area: 85355
Amount: 49.998300
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:14:45 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

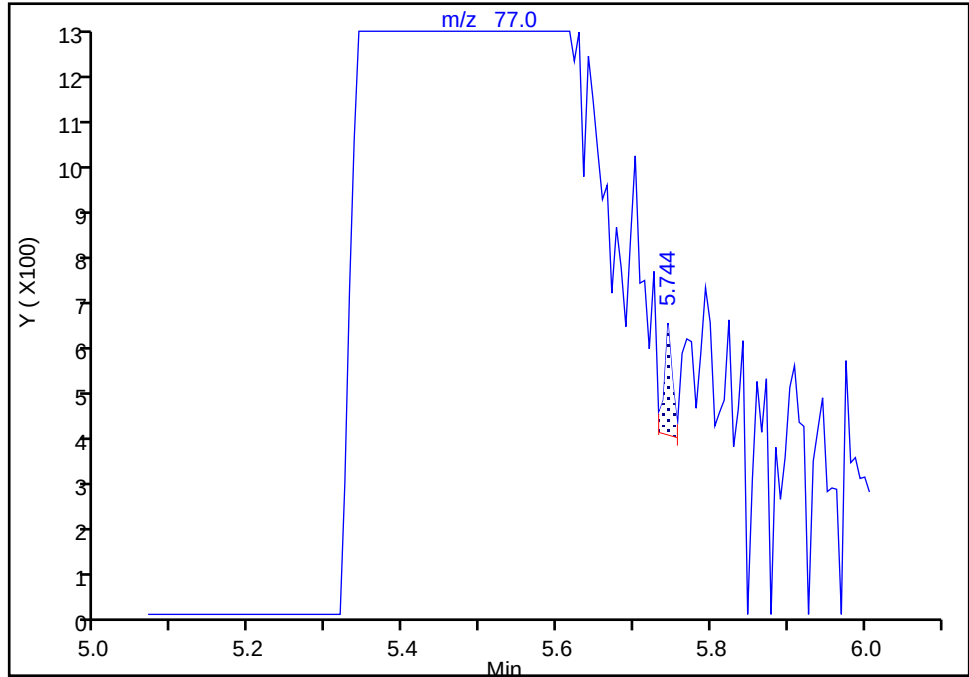
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Injection Date: 03-Dec-2024 18:18:30 Instrument ID: 16334
Lims ID: IC std7
Client ID:
Operator ID: knk41612 ALS Bottle#: 8 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

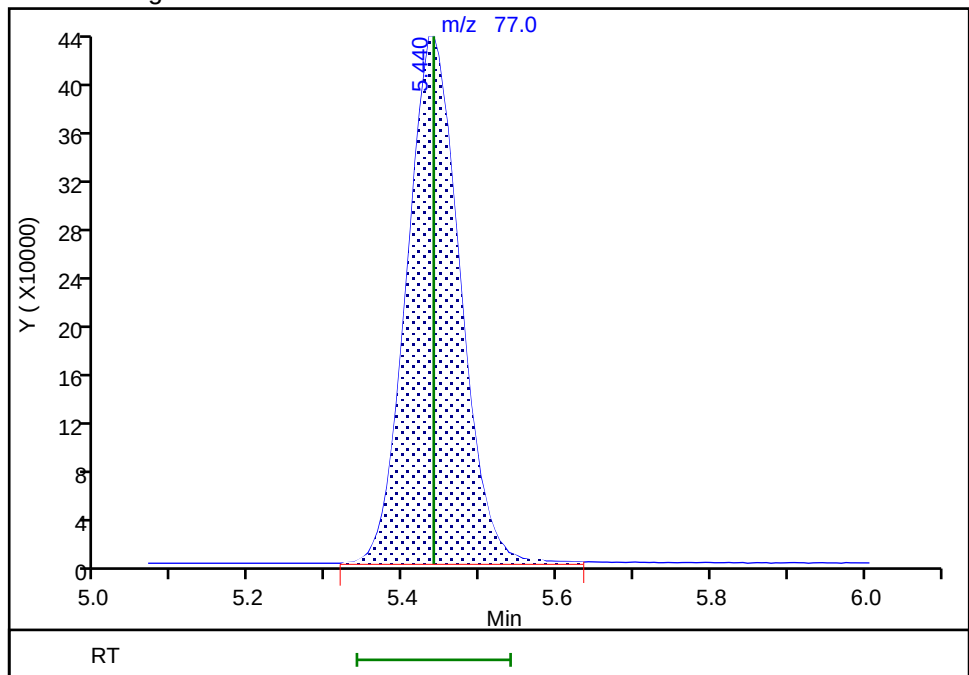
RT: 5.74
Area: 185
Amount: 0.002588
Amount Units: ug/l

Processing Integration Results



RT: 5.44
Area: 2091785
Amount: 25.073621
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:13:57 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

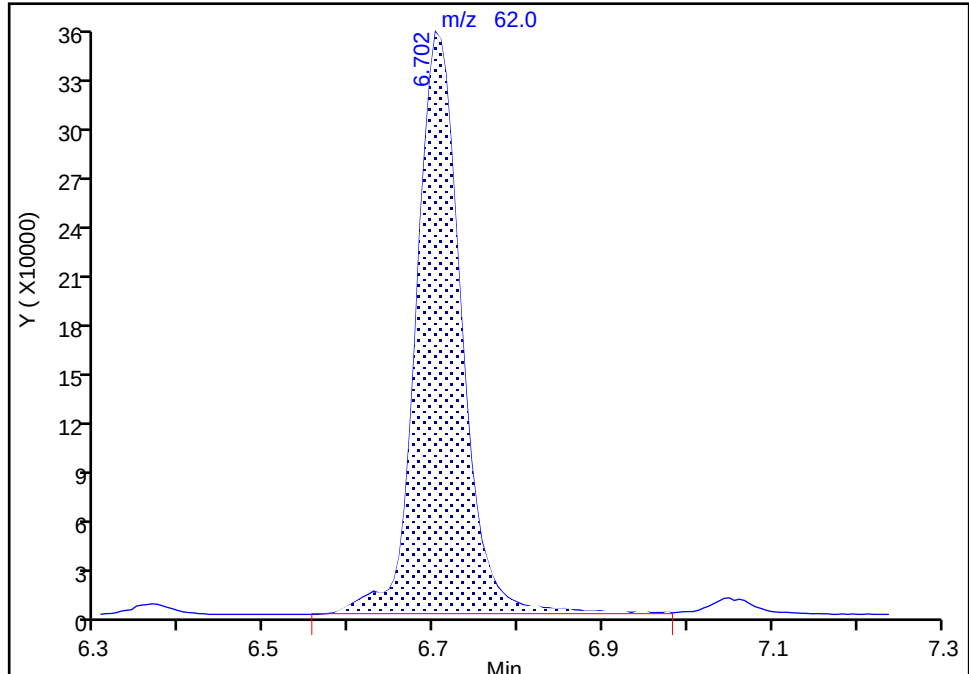
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Injection Date: 03-Dec-2024 18:18:30 Instrument ID: 16334
Lims ID: IC std7
Client ID:
Operator ID: knk41612 ALS Bottle#: 8 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

61 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

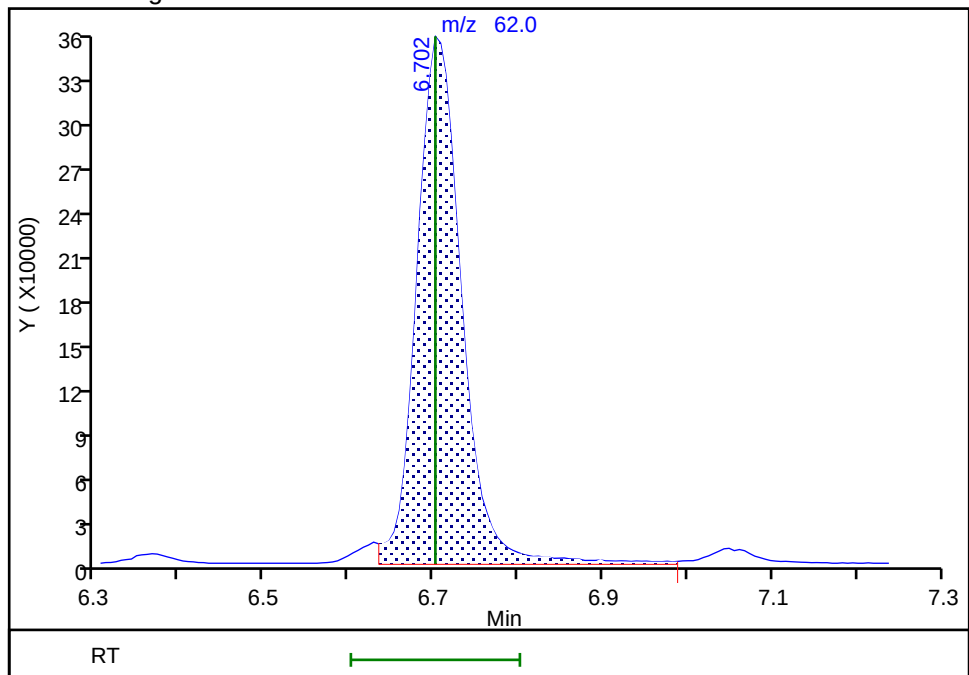
RT: 6.70
Area: 1335061
Amount: 25.648038
Amount Units: ug/l

Processing Integration Results



RT: 6.70
Area: 1311844
Amount: 25.266409
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 11:25:46 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Shouldering

Eurofins Lancaster Laboratories Environment Testing, LLC

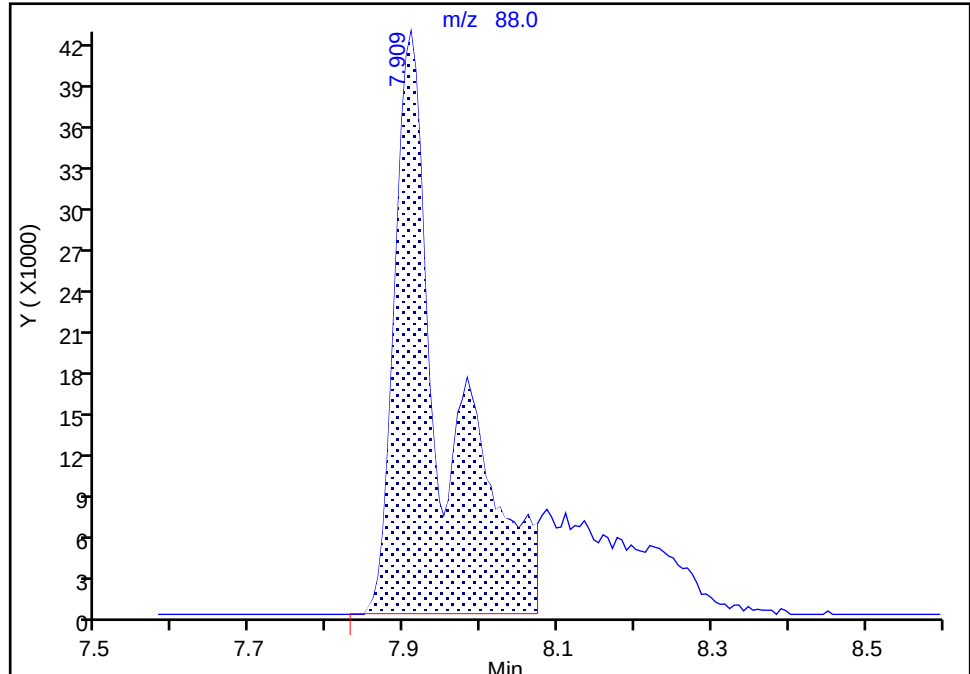
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Injection Date: 03-Dec-2024 18:18:30 Instrument ID: 16334
Lims ID: IC std7
Client ID:
Operator ID: knk41612 ALS Bottle#: 8 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

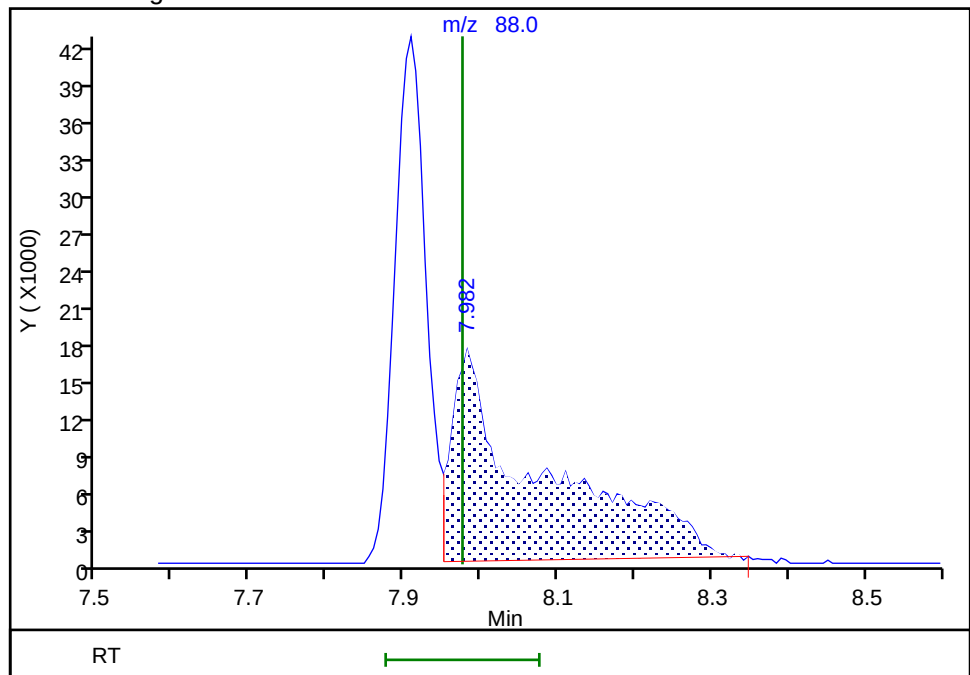
RT: 7.91
Area: 194527
Amount: 2063.7203
Amount Units: ug/l

Processing Integration Results



RT: 7.98
Area: 135780
Amount: 1244.3422
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:15:03 -05:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

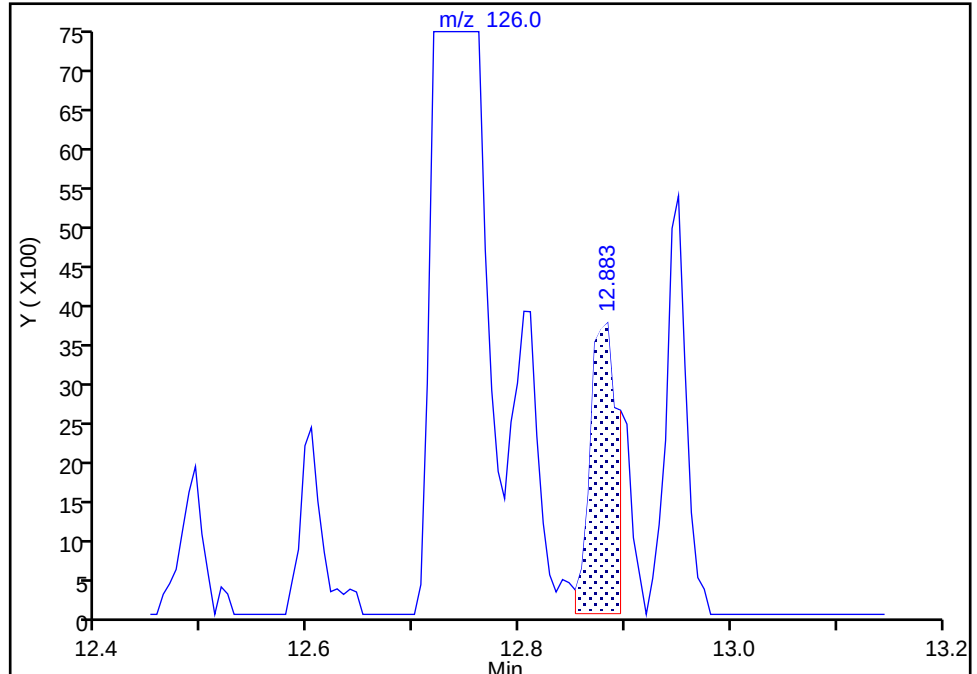
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Injection Date: 03-Dec-2024 18:18:30 Instrument ID: 16334
Lims ID: IC std7
Client ID:
Operator ID: knk41612 ALS Bottle#: 8 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

145 Benzyl chloride, CAS: 100-44-7

Signal: 1

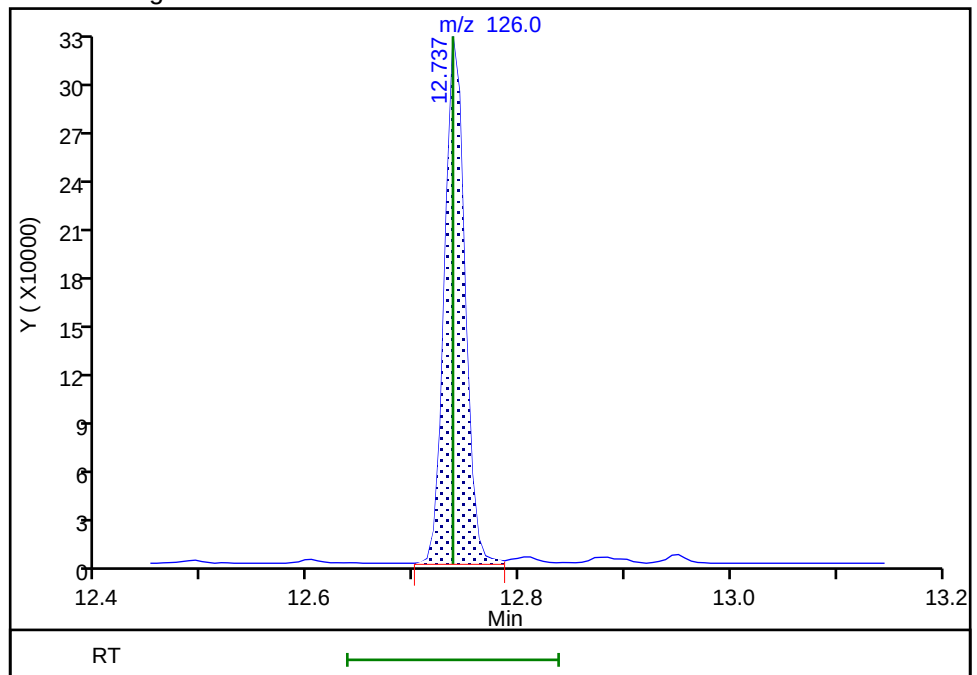
RT: 12.88
Area: 6775
Amount: 2.032198
Amount Units: ug/l

Processing Integration Results



RT: 12.74
Area: 429914
Amount: 29.175664
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:10:57 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Calibration

/ Dichlorodifluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

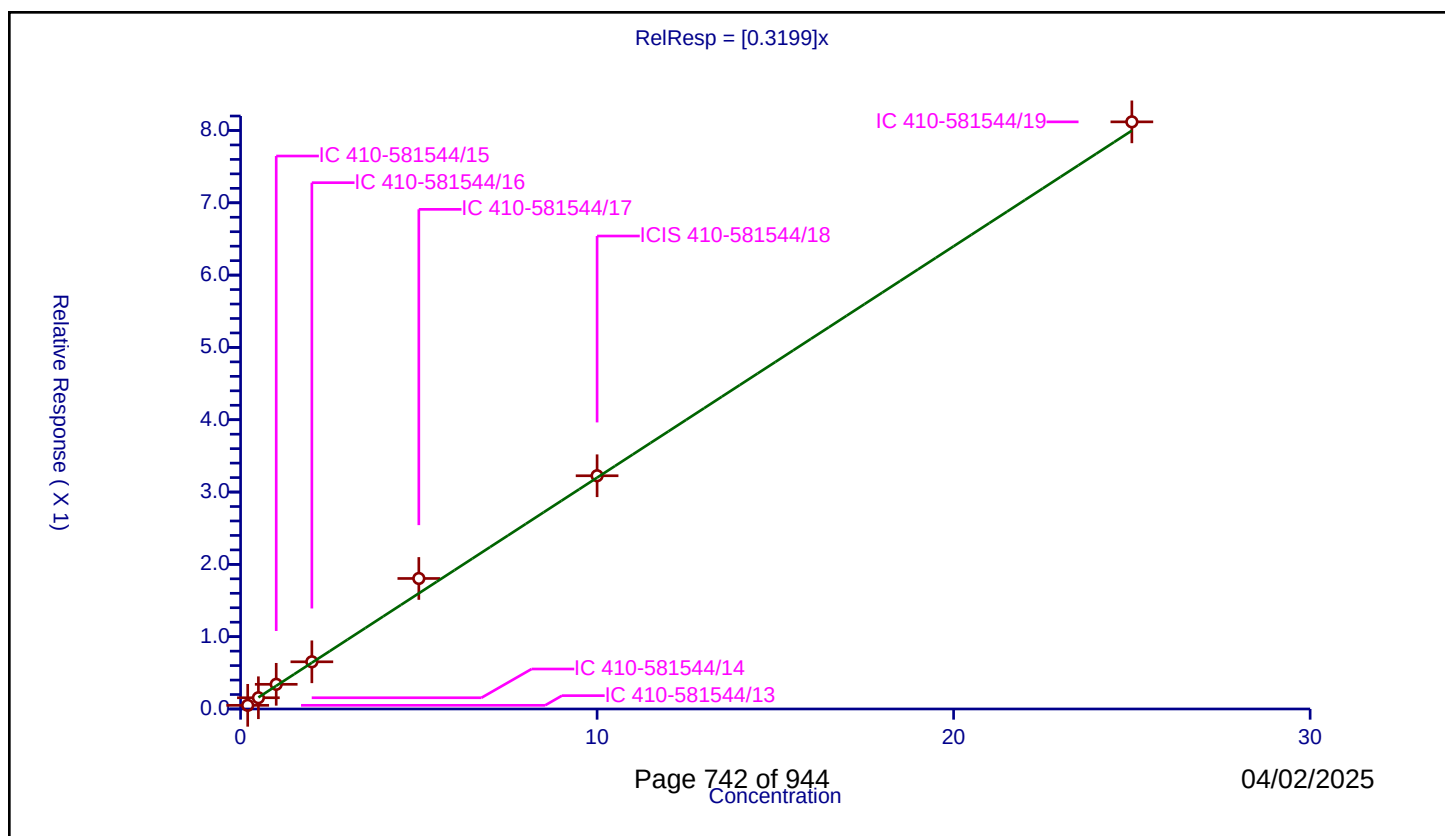
Curve Coefficients

Intercept: 0
Slope: 0.3199

Error Coefficients

Relative Standard Deviation: 10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.050577	9.99966	2031304.0	0.252883	Y
2	IC 410-581544/14	0.5	0.155365	9.99966	2087335.0	0.31073	Y
3	IC 410-581544/15	1.0	0.3414	9.99966	1927527.0	0.3414	Y
4	IC 410-581544/16	2.0	0.652455	9.99966	2105483.0	0.326228	Y
5	IC 410-581544/17	5.0	1.804739	9.99966	1950593.0	0.360948	Y
6	ICIS 410-581544/18	10.0	3.22539	9.99966	2029850.0	0.322539	Y
7	IC 410-581544/19	25.0	8.119289	9.99966	2040629.0	0.324772	Y



Calibration

/ Chloromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

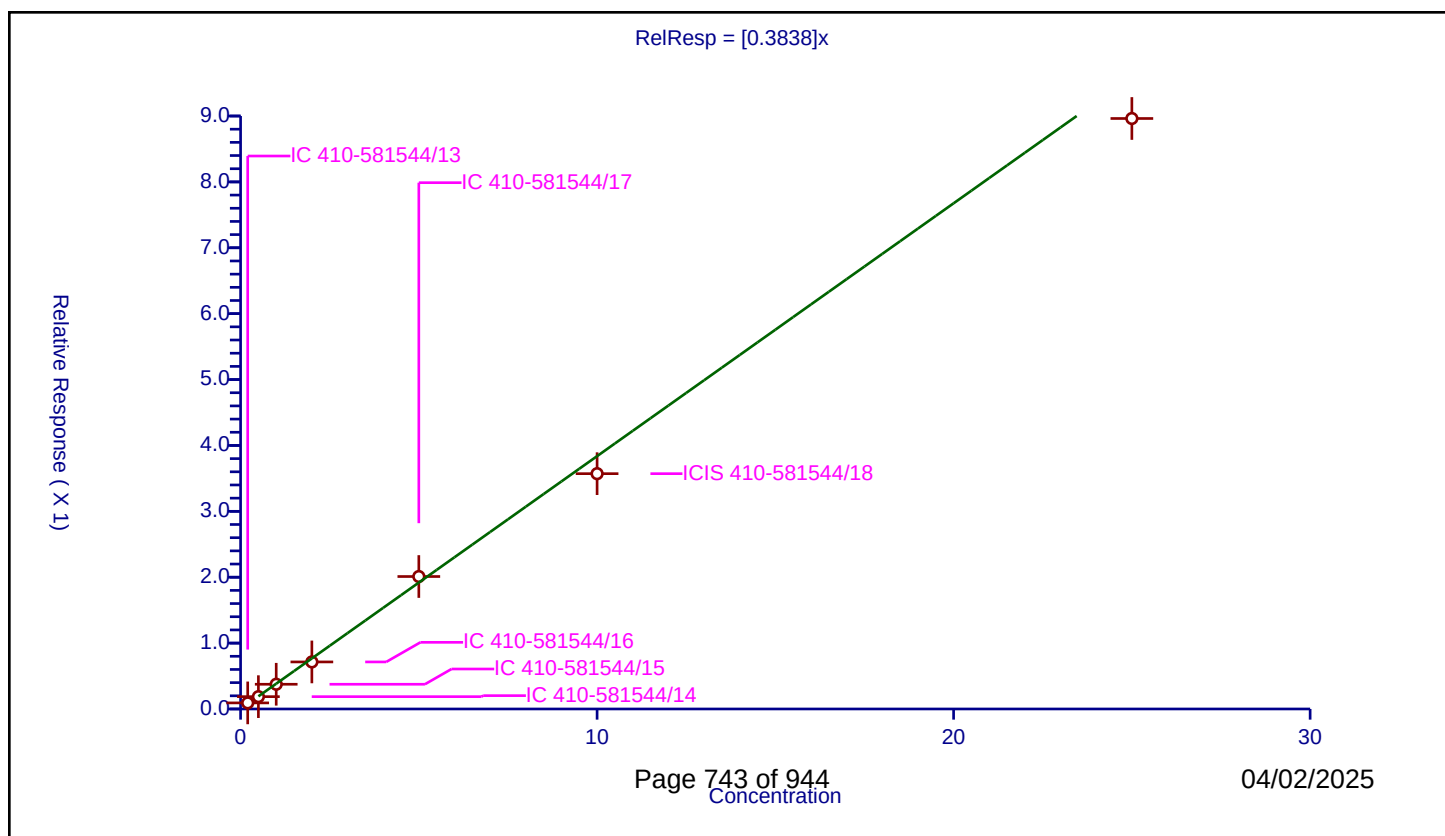
Curve Coefficients

Intercept: 0
Slope: 0.3838

Error Coefficients

Relative Standard Deviation: 9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.092381	9.99966	2031304.0	0.461904	Y
2	IC 410-581544/14	0.5	0.187098	9.99966	2087335.0	0.374196	Y
3	IC 410-581544/15	1.0	0.375442	9.99966	1927527.0	0.375442	Y
4	IC 410-581544/16	2.0	0.714125	9.99966	2105483.0	0.357063	Y
5	IC 410-581544/17	5.0	2.010684	9.99966	1950593.0	0.402137	Y
6	ICIS 410-581544/18	10.0	3.57166	9.99966	2029850.0	0.357166	Y
7	IC 410-581544/19	25.0	8.962344	9.99966	2040629.0	0.358494	Y



Calibration

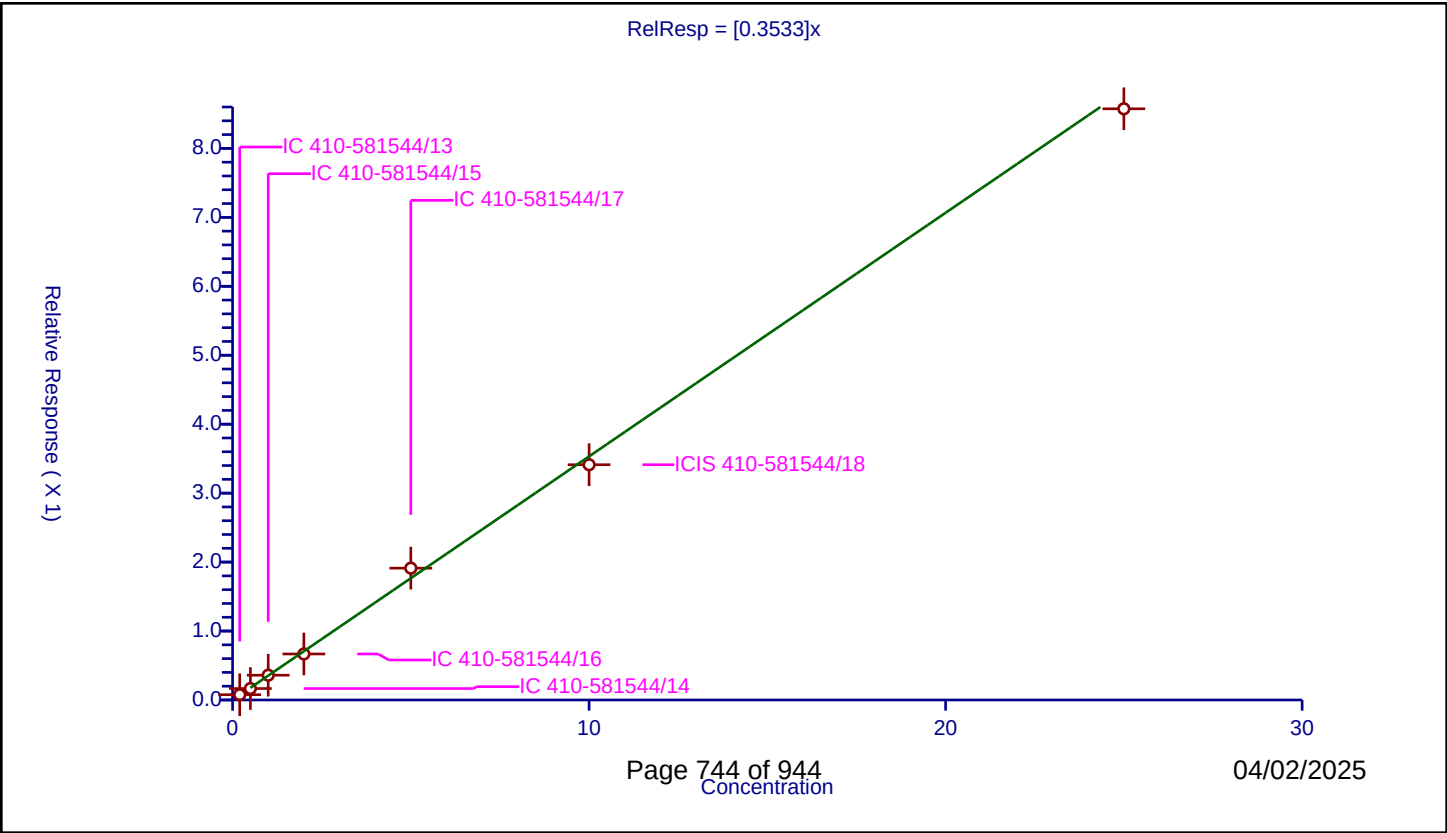
/ Butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3533
Error Coefficients	

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.076205	9.99966	2031304.0	0.381023	Y
2	IC 410-581544/14	0.5	0.166115	9.99966	2087335.0	0.332231	Y
3	IC 410-581544/15	1.0	0.359588	9.99966	1927527.0	0.359588	Y
4	IC 410-581544/16	2.0	0.667197	9.99966	2105483.0	0.333599	Y
5	IC 410-581544/17	5.0	1.912071	9.99966	1950593.0	0.382414	Y
6	ICIS 410-581544/18	10.0	3.412225	9.99966	2029850.0	0.341222	Y
7	IC 410-581544/19	25.0	8.573952	9.99966	2040629.0	0.342958	Y



Calibration

/ Vinyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

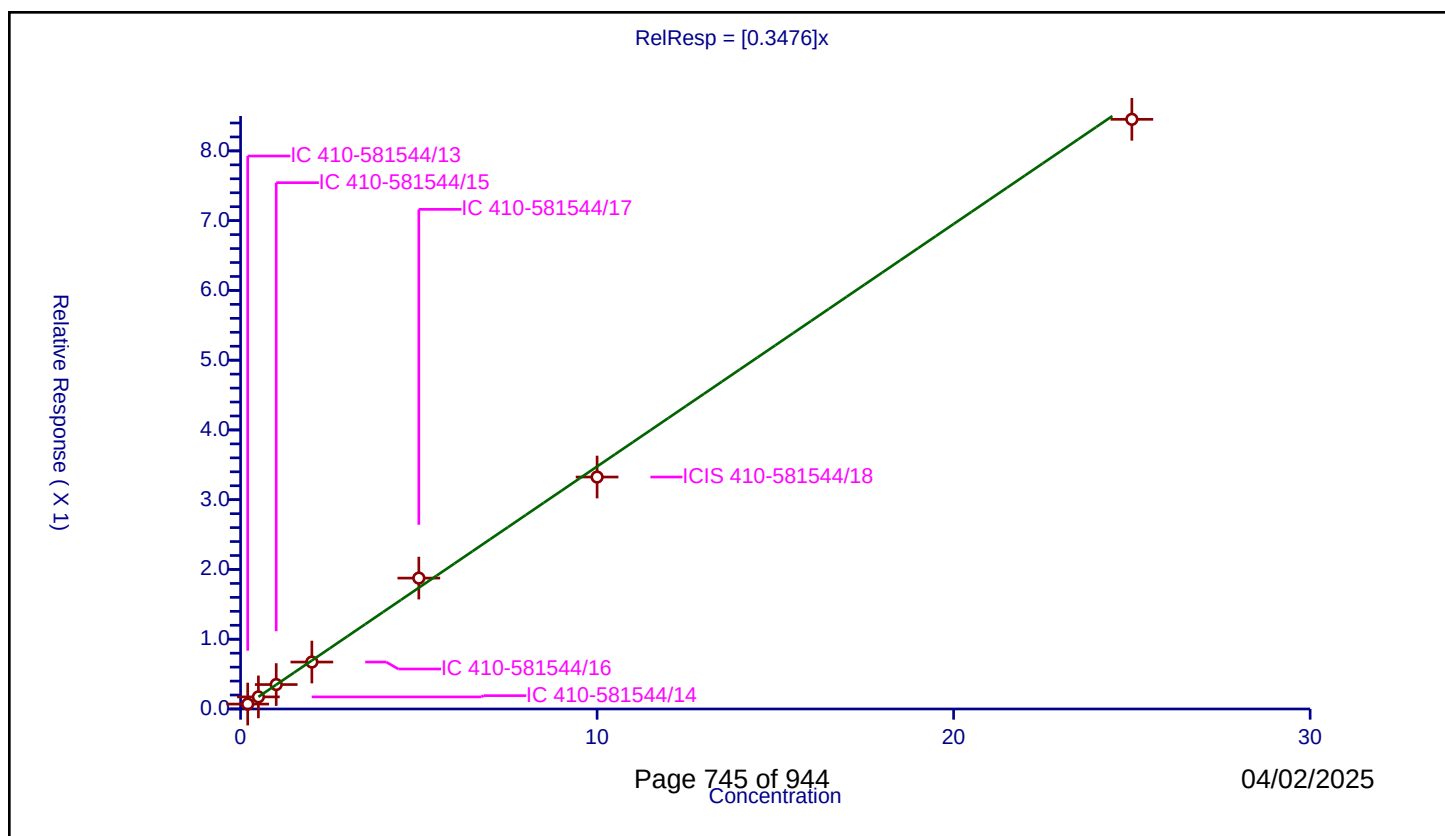
Curve Coefficients

Intercept: 0
Slope: 0.3476

Error Coefficients

Relative Standard Deviation: 4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.070716	9.99966	2031304.0	0.353579	Y
2	IC 410-581544/14	0.5	0.173325	9.99966	2087335.0	0.34665	Y
3	IC 410-581544/15	1.0	0.350473	9.99966	1927527.0	0.350473	Y
4	IC 410-581544/16	2.0	0.672996	9.99966	2105483.0	0.336498	Y
5	IC 410-581544/17	5.0	1.876458	9.99966	1950593.0	0.375292	Y
6	ICIS 410-581544/18	10.0	3.325024	9.99966	2029850.0	0.332502	Y
7	IC 410-581544/19	25.0	8.452533	9.99966	2040629.0	0.338101	Y



Calibration

/ Bromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

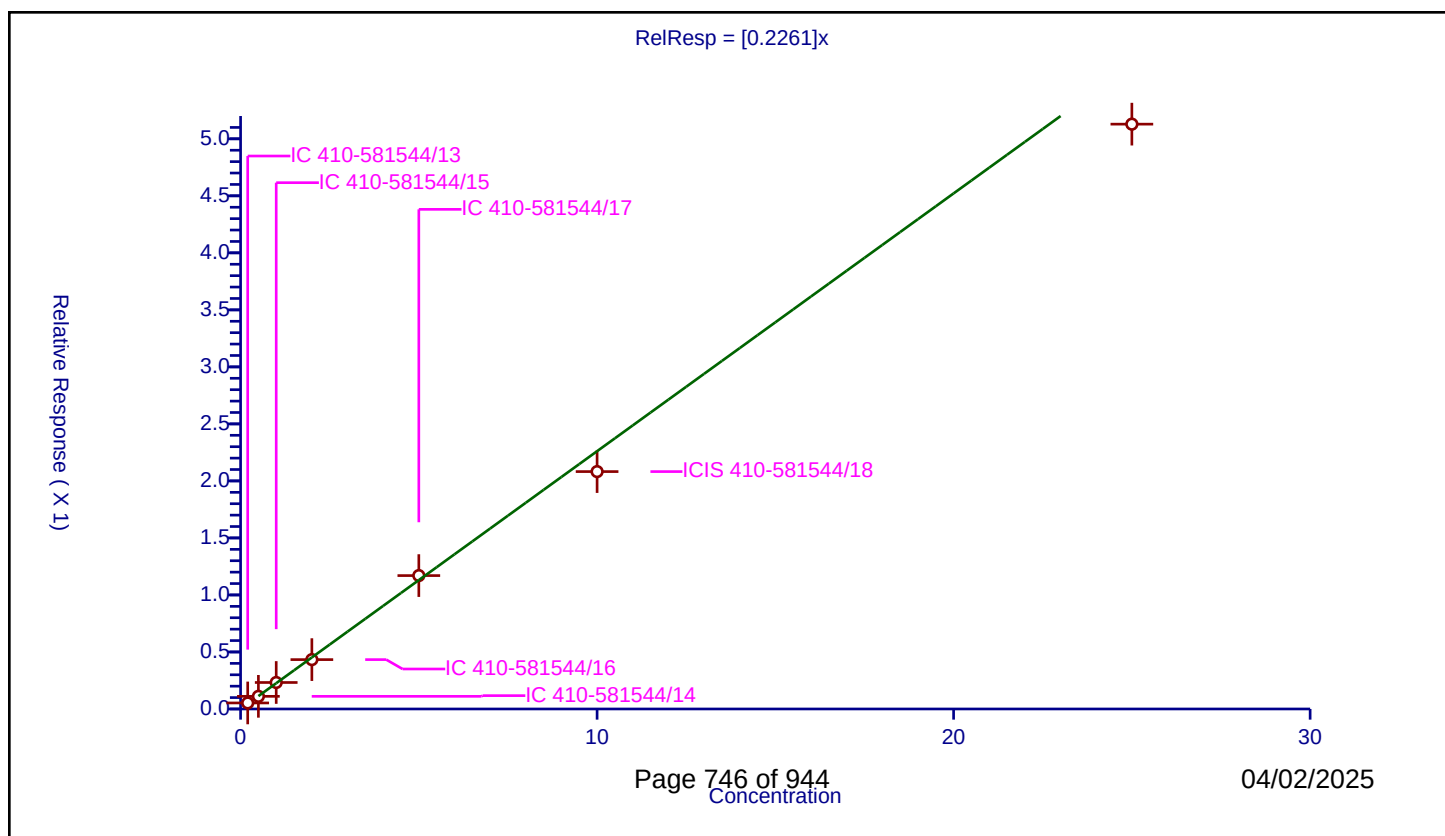
Curve Coefficients

Intercept: 0
Slope: 0.2261

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.052905	9.99966	2031304.0	0.264526	Y
2	IC 410-581544/14	0.5	0.110937	9.99966	2087335.0	0.221873	Y
3	IC 410-581544/15	1.0	0.232248	9.99966	1927527.0	0.232248	Y
4	IC 410-581544/16	2.0	0.432955	9.99966	2105483.0	0.216477	Y
5	IC 410-581544/17	5.0	1.169907	9.99966	1950593.0	0.233981	Y
6	ICIS 410-581544/18	10.0	2.08194	9.99966	2029850.0	0.208194	Y
7	IC 410-581544/19	25.0	5.128783	9.99966	2040629.0	0.205151	Y



Calibration

/ Chloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

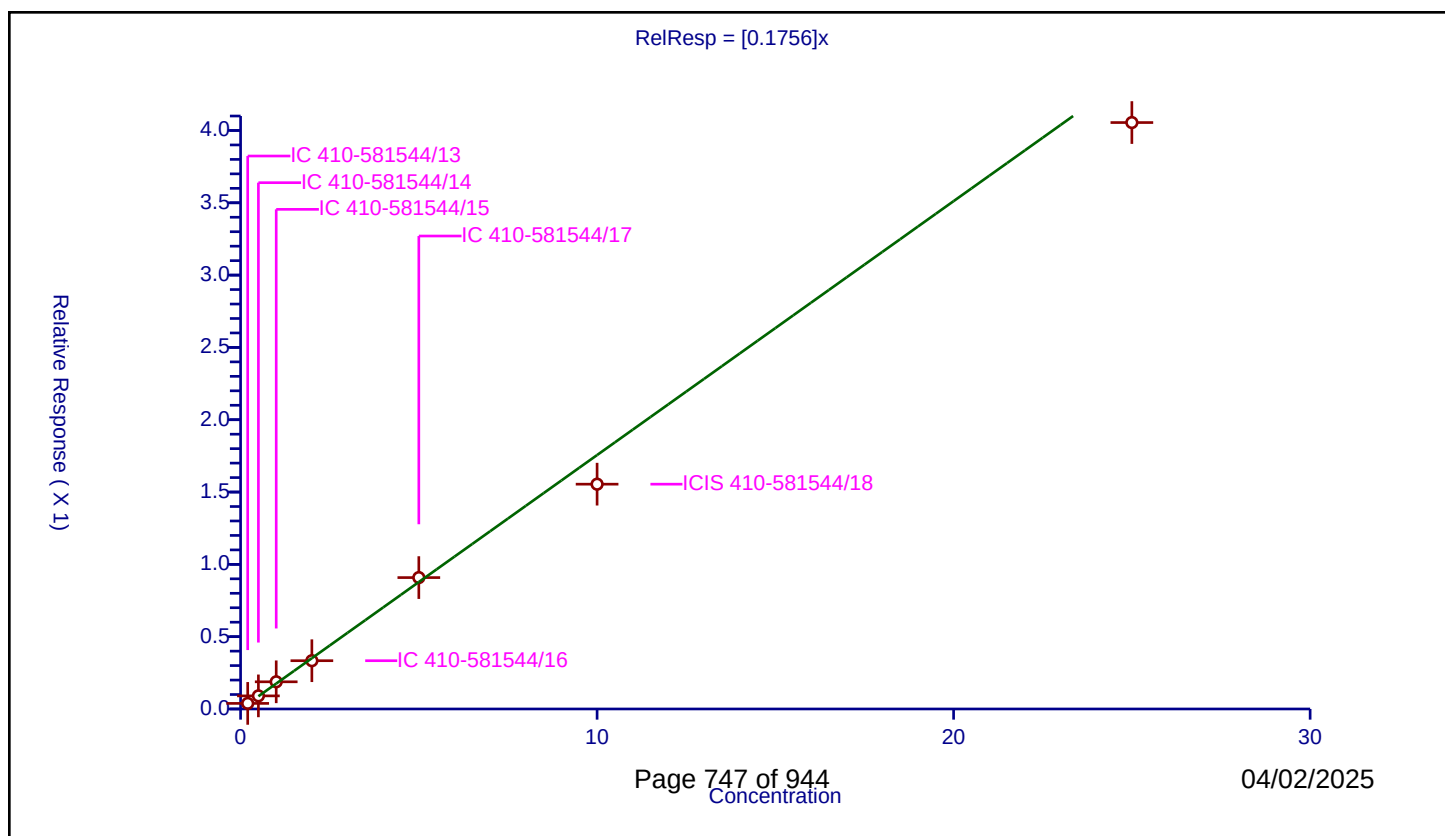
Curve Coefficients

Intercept: 0
Slope: 0.1756

Error Coefficients

Relative Standard Deviation: 8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.038688	9.99966	2031304.0	0.193441	Y
2	IC 410-581544/14	0.5	0.090624	9.99966	2087335.0	0.181249	Y
3	IC 410-581544/15	1.0	0.187996	9.99966	1927527.0	0.187996	Y
4	IC 410-581544/16	2.0	0.333907	9.99966	2105483.0	0.166954	Y
5	IC 410-581544/17	5.0	0.908621	9.99966	1950593.0	0.181724	Y
6	ICIS 410-581544/18	10.0	1.554422	9.99966	2029850.0	0.155442	Y
7	IC 410-581544/19	25.0	4.054803	9.99966	2040629.0	0.162192	Y



Calibration

/ Dichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

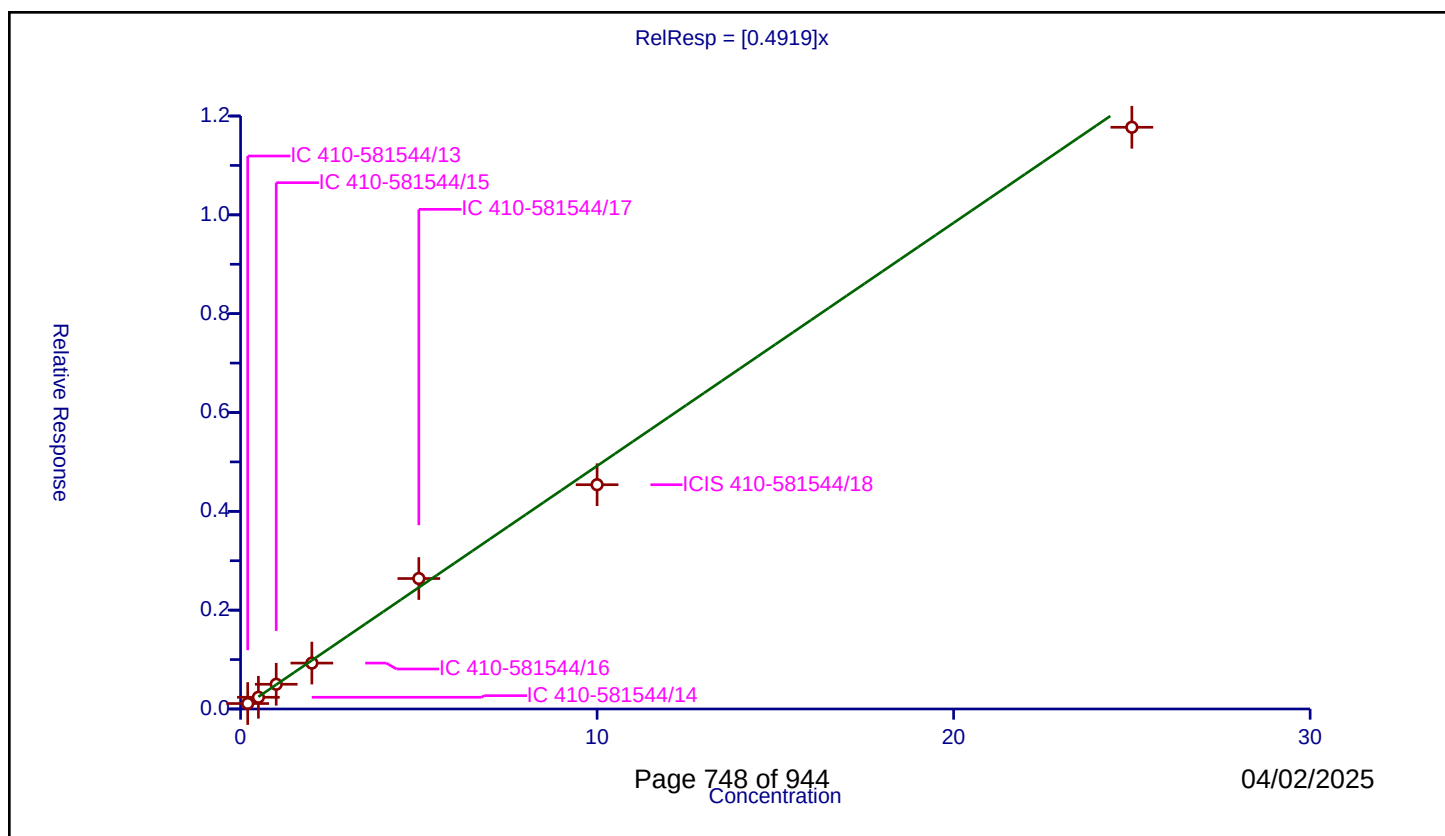
Curve Coefficients

Intercept: 0
Slope: 0.4919

Error Coefficients

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.110265	9.99966	2031304.0	0.551327	Y
2	IC 410-581544/14	0.5	0.237079	9.99966	2087335.0	0.474158	Y
3	IC 410-581544/15	1.0	0.500536	9.99966	1927527.0	0.500536	Y
4	IC 410-581544/16	2.0	0.928767	9.99966	2105483.0	0.464384	Y
5	IC 410-581544/17	5.0	2.640118	9.99966	1950593.0	0.528024	Y
6	ICIS 410-581544/18	10.0	4.538546	9.99966	2029850.0	0.453855	Y
7	IC 410-581544/19	25.0	11.772264	9.99966	2040629.0	0.470891	Y



Calibration

/ Trichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

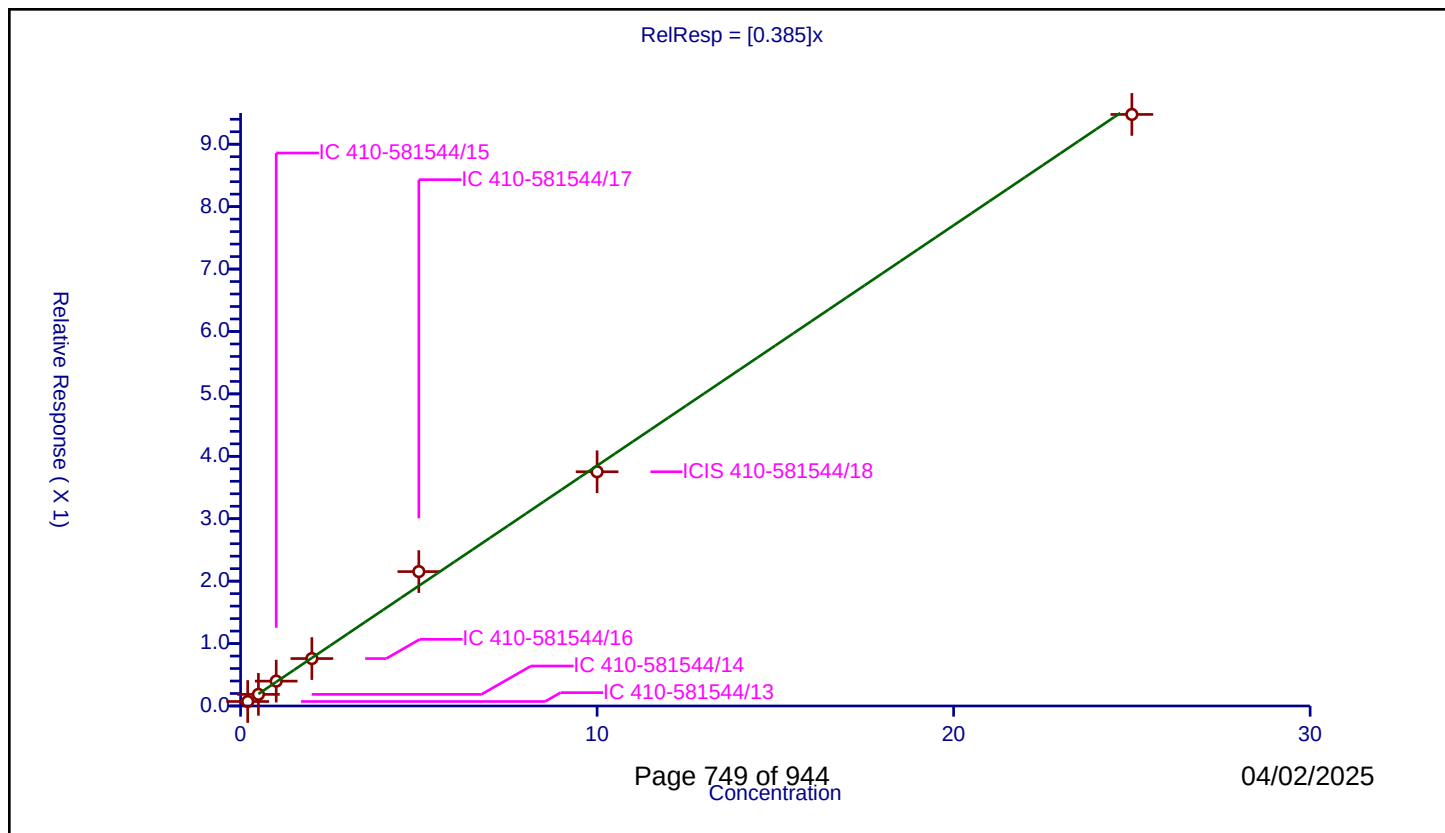
Curve Coefficients

Intercept: 0
Slope: 0.385

Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.072045	9.99966	2031304.0	0.360224	Y
2	IC 410-581544/14	0.5	0.185934	9.99966	2087335.0	0.371868	Y
3	IC 410-581544/15	1.0	0.398201	9.99966	1927527.0	0.398201	Y
4	IC 410-581544/16	2.0	0.759676	9.99966	2105483.0	0.379838	Y
5	IC 410-581544/17	5.0	2.153093	9.99966	1950593.0	0.430619	Y
6	ICIS 410-581544/18	10.0	3.752559	9.99966	2029850.0	0.375256	Y
7	IC 410-581544/19	25.0	9.477167	9.99966	2040629.0	0.379087	Y



Calibration

/ Ethyl ether

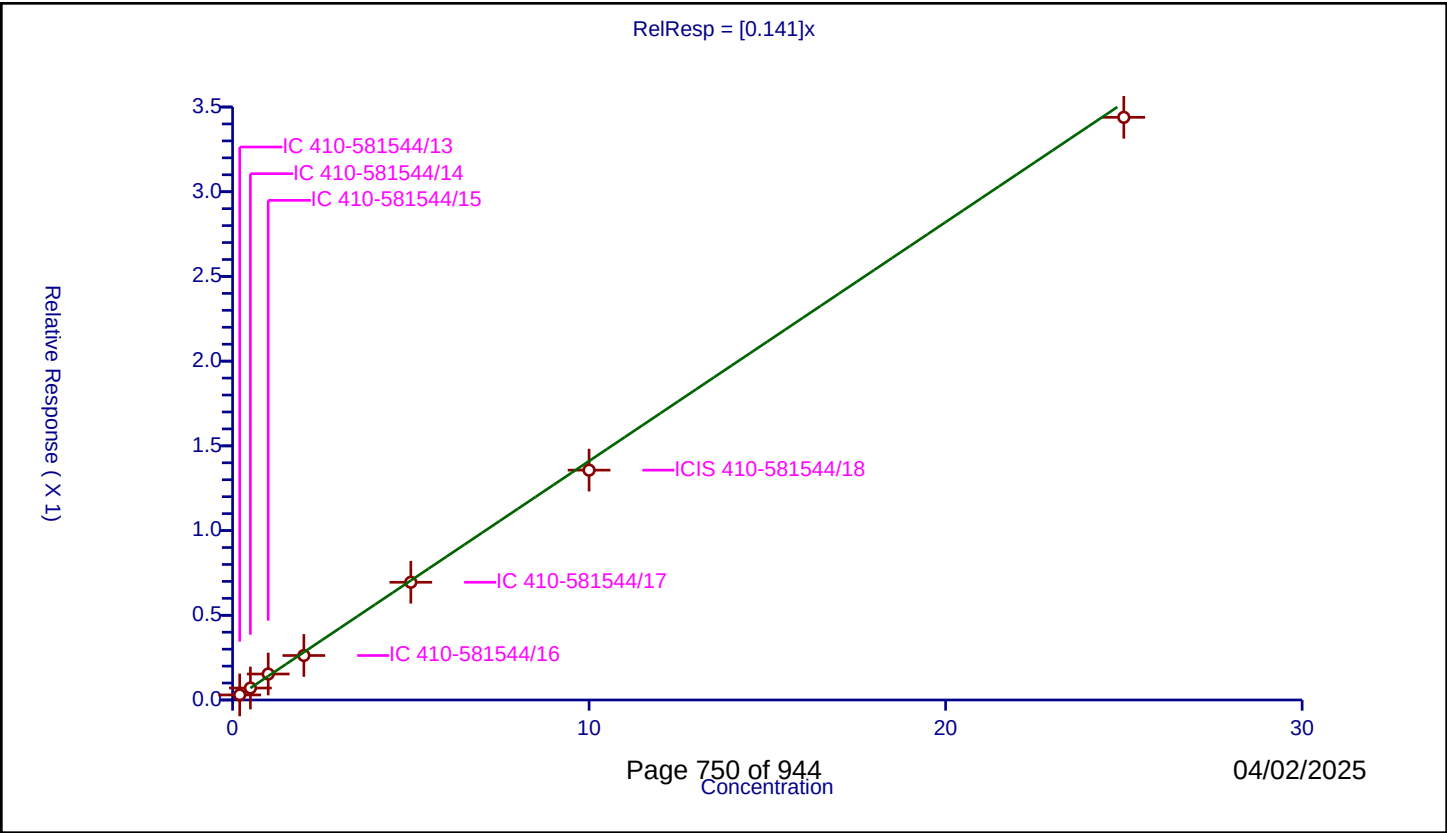
Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.141

Error Coefficients	
--------------------	--

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.199986	0.029807	9.99966	2031304.0	0.149047	Y
2	IC 410-581544/14	0.499966	0.070619	9.99966	2087335.0	0.141247	Y
3	IC 410-581544/15	0.999932	0.153357	9.99966	1927527.0	0.153368	Y
4	IC 410-581544/16	1.999864	0.262577	9.99966	2105483.0	0.131297	Y
5	IC 410-581544/17	4.99966	0.694898	9.99966	1950593.0	0.138989	Y
6	ICIS 410-581544/18	9.99932	1.356626	9.99966	2029850.0	0.135672	Y
7	IC 410-581544/19	24.9983	3.439146	9.99966	2040629.0	0.137575	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

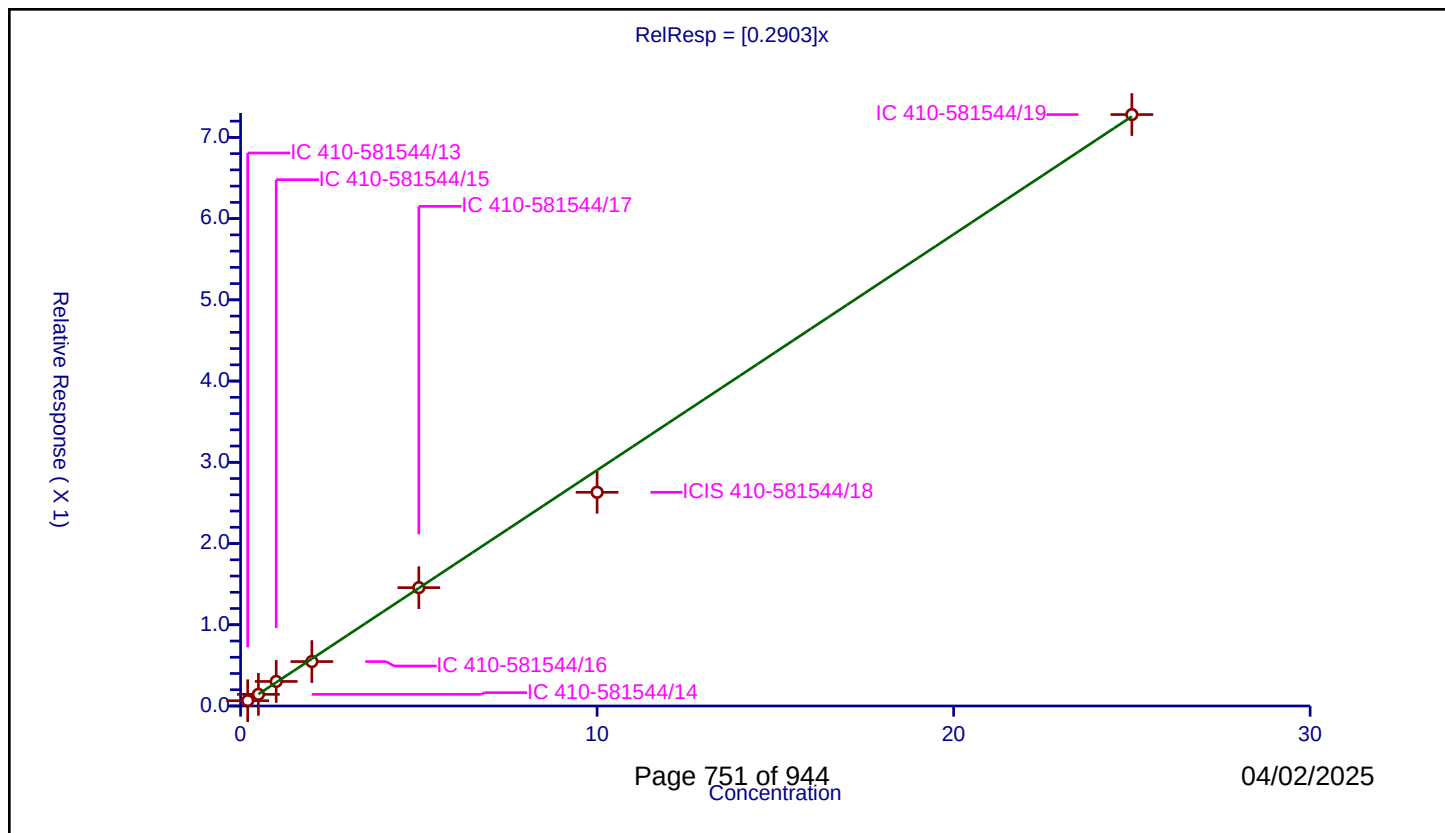
Curve Coefficients

Intercept: 0
Slope: 0.2903

Error Coefficients

Relative Standard Deviation: 6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.064867	9.99966	2031304.0	0.324337	Y
2	IC 410-581544/14	0.5	0.143245	9.99966	2087335.0	0.28649	Y
3	IC 410-581544/15	1.0	0.302341	9.99966	1927527.0	0.302341	Y
4	IC 410-581544/16	2.0	0.54682	9.99966	2105483.0	0.27341	Y
5	IC 410-581544/17	5.0	1.456718	9.99966	1950593.0	0.291344	Y
6	ICIS 410-581544/18	10.0	2.630745	9.99966	2029850.0	0.263075	Y
7	IC 410-581544/19	25.0	7.280949	9.99966	2040629.0	0.291238	Y

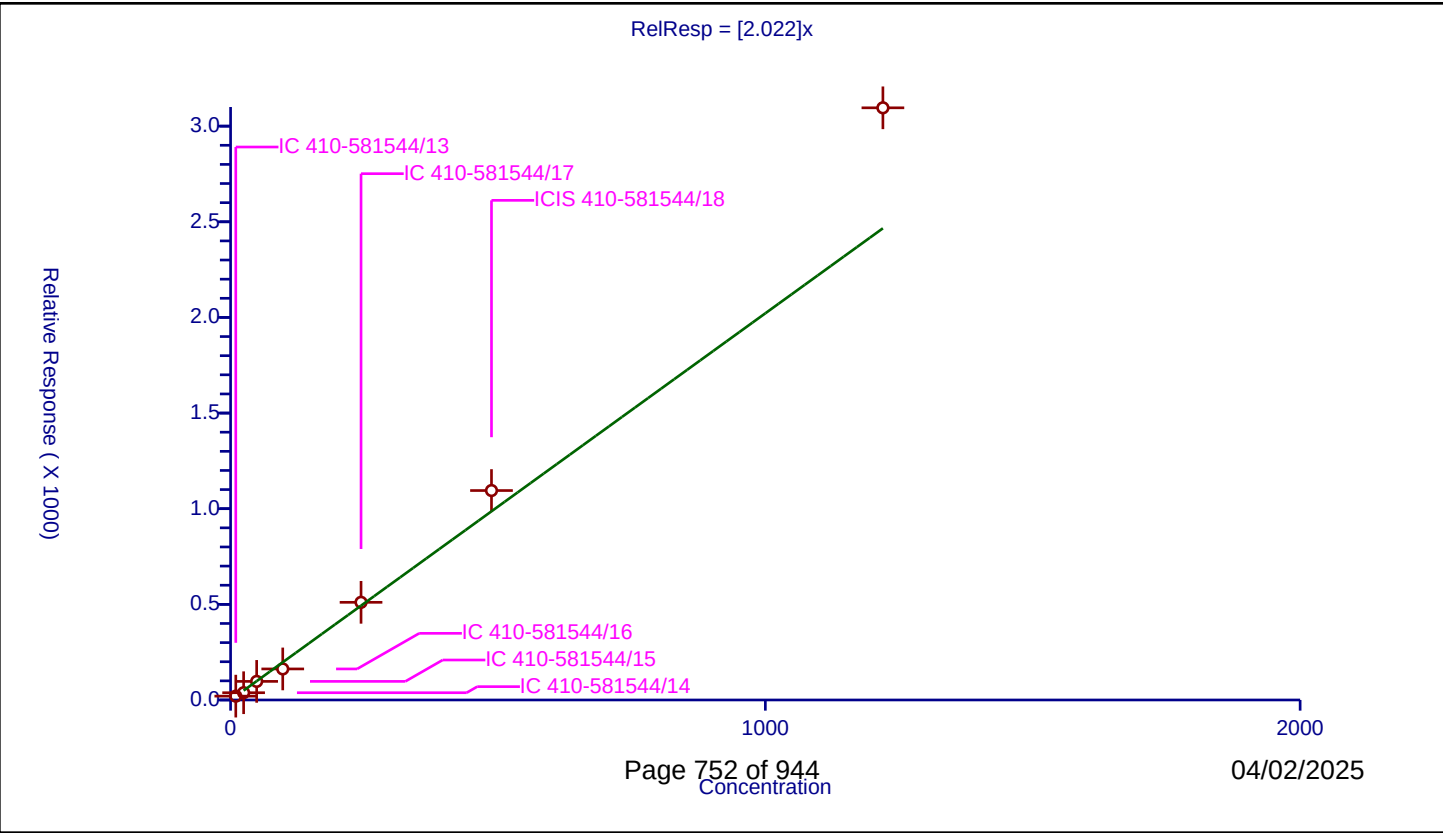


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.022
Error Coefficients	

Relative Standard Deviation: 16.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	9.758612	20.130775	49.9983	75156.0	2.062873	Y
2	IC 410-581544/14	24.396531	37.996893	49.9983	78234.0	1.557471	Y
3	IC 410-581544/15	48.793061	97.203126	49.9983	70537.0	1.992151	Y
4	IC 410-581544/16	97.586123	162.322749	49.9983	82323.0	1.663379	Y
5	IC 410-581544/17	243.965307	510.616253	49.9983	72915.0	2.092987	Y
6	ICIS 410-581544/18	487.930614	1094.931598	49.9983	80518.0	2.244031	Y
7	IC 410-581544/19	1219.826534	3095.84108	49.9983	85355.0	2.537936	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

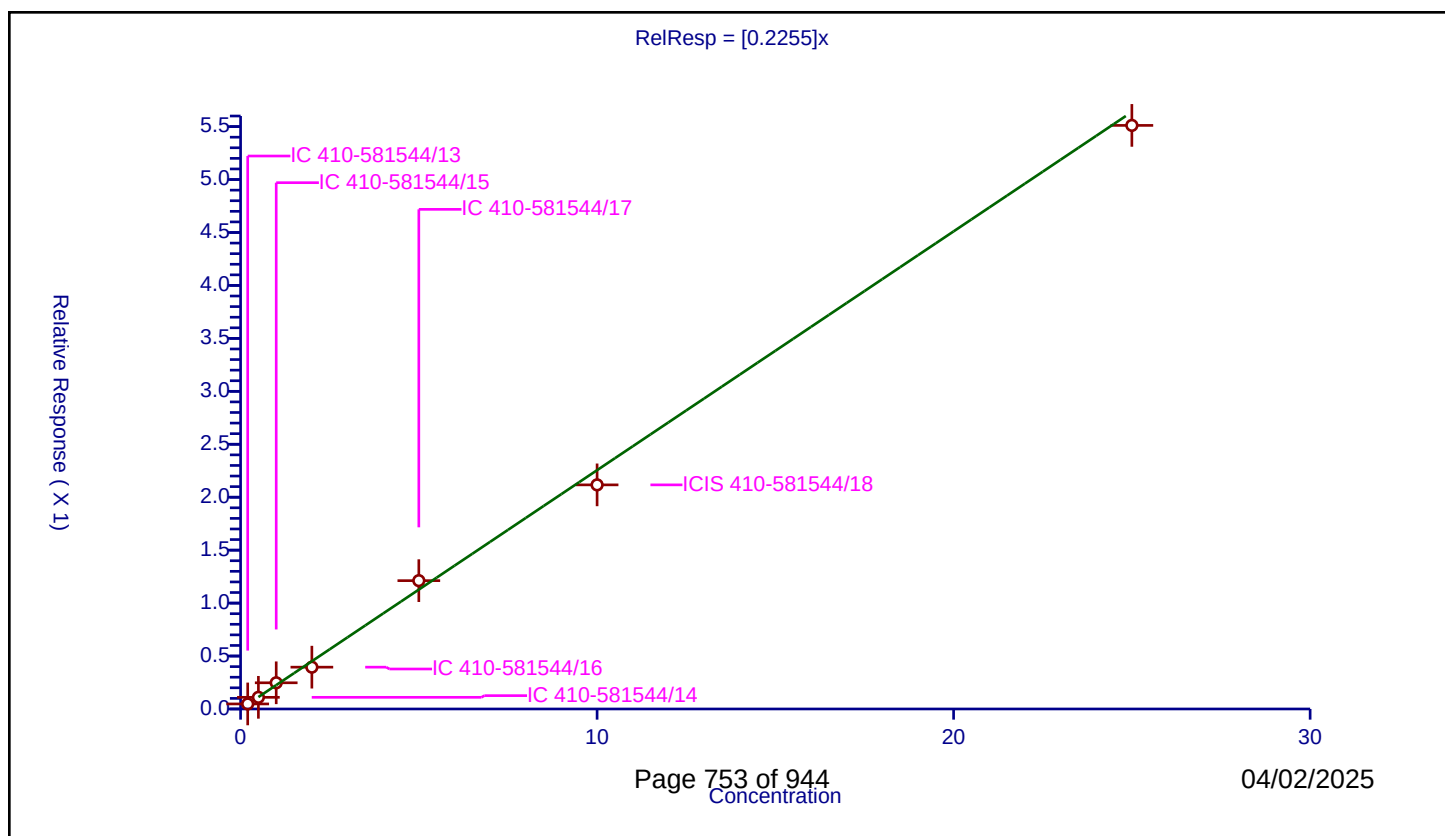
Curve Coefficients

Intercept: 0
Slope: 0.2255

Error Coefficients

Relative Standard Deviation: 8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.04779	9.99966	2031304.0	0.238952	Y
2	IC 410-581544/14	0.5	0.110165	9.99966	2087335.0	0.220331	Y
3	IC 410-581544/15	1.0	0.247454	9.99966	1927527.0	0.247454	Y
4	IC 410-581544/16	2.0	0.394884	9.99966	2105483.0	0.197442	Y
5	IC 410-581544/17	5.0	1.212011	9.99966	1950593.0	0.242402	Y
6	ICIS 410-581544/18	10.0	2.116626	9.99966	2029850.0	0.211663	Y
7	IC 410-581544/19	25.0	5.511461	9.99966	2040629.0	0.220458	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

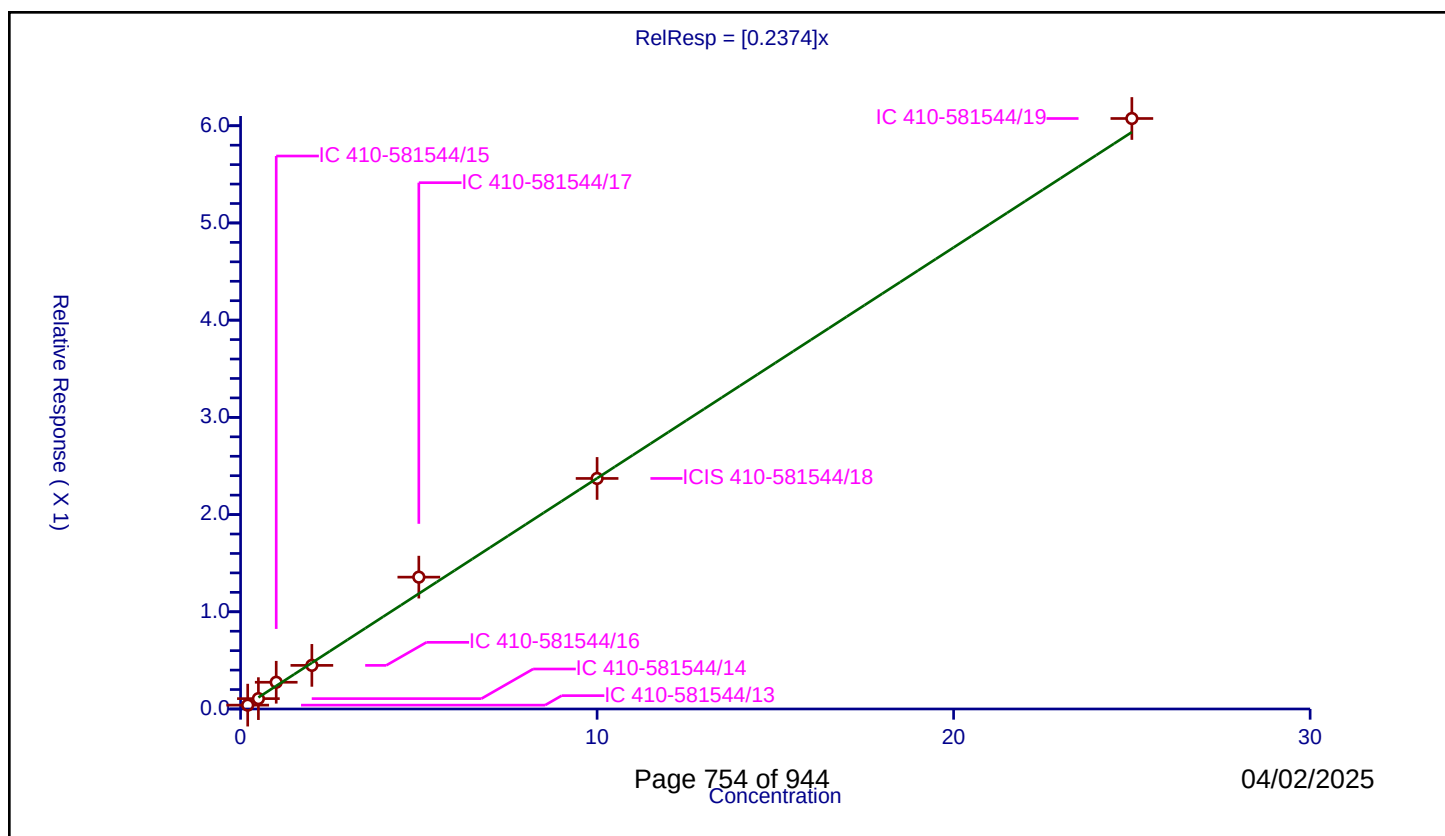
Curve Coefficients

Intercept: 0
Slope: 0.2374

Error Coefficients

Relative Standard Deviation: 12.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.039564	9.99966	2031304.0	0.197822	Y
2	IC 410-581544/14	0.5	0.106477	9.99966	2087335.0	0.212953	Y
3	IC 410-581544/15	1.0	0.275131	9.99966	1927527.0	0.275131	Y
4	IC 410-581544/16	2.0	0.448552	9.99966	2105483.0	0.224276	Y
5	IC 410-581544/17	5.0	1.356408	9.99966	1950593.0	0.271282	Y
6	ICIS 410-581544/18	10.0	2.371543	9.99966	2029850.0	0.237154	Y
7	IC 410-581544/19	25.0	6.074494	9.99966	2040629.0	0.24298	Y



Calibration

/ Acetone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

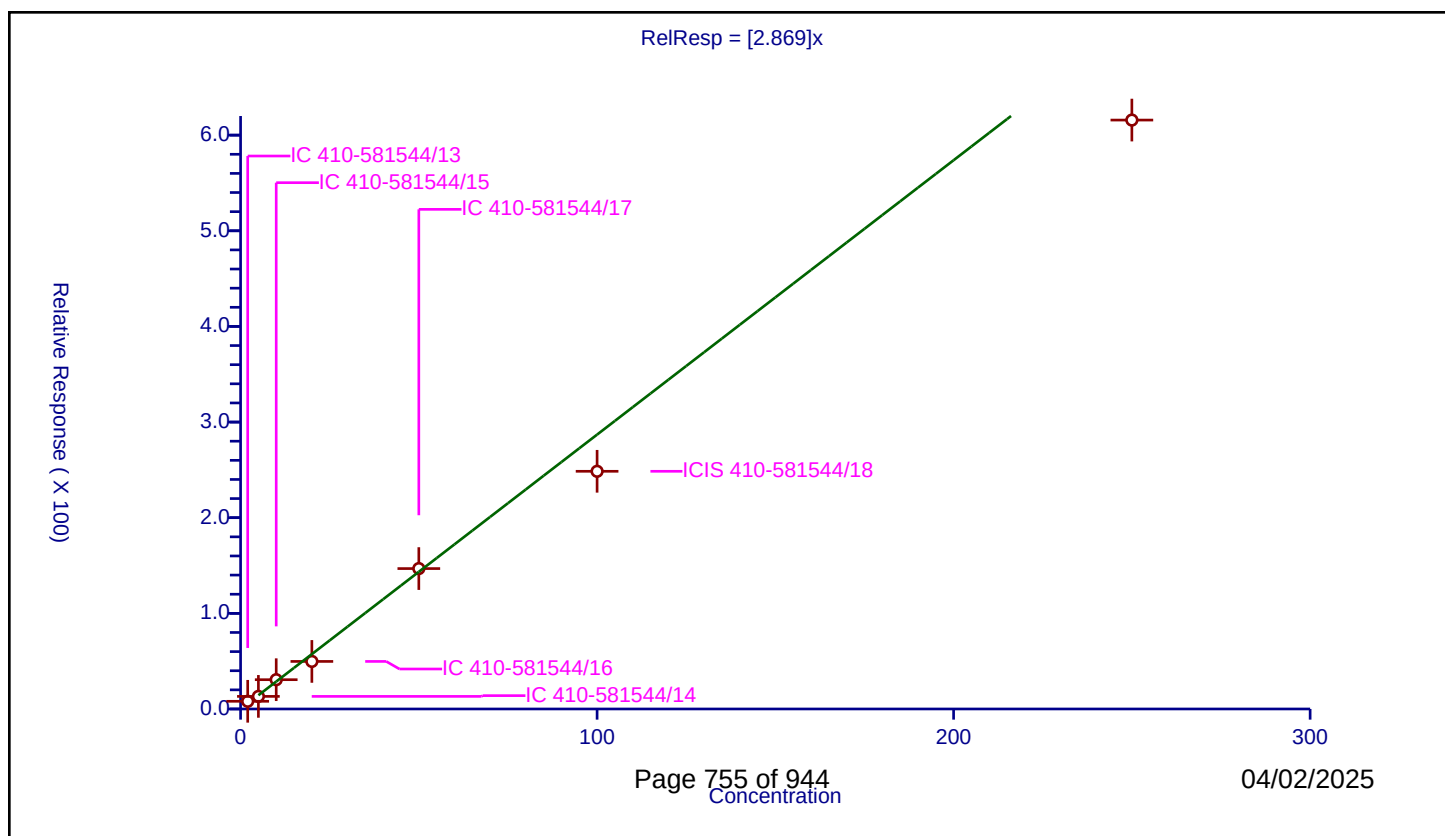
Curve Coefficients

Intercept: 0
Slope: 2.869

Error Coefficients

Relative Standard Deviation: 19.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	2.0	8.031687	49.9983	75156.0	4.015844	Y
2	IC 410-581544/14	5.0	13.161988	49.9983	78234.0	2.632398	Y
3	IC 410-581544/15	10.0	30.62473	49.9983	70537.0	3.062473	Y
4	IC 410-581544/16	20.0	49.738965	49.9983	82323.0	2.486948	Y
5	IC 410-581544/17	50.0	146.823507	49.9983	72915.0	2.93647	Y
6	ICIS 410-581544/18	100.0	248.522313	49.9983	80518.0	2.485223	Y
7	IC 410-581544/19	250.0	615.7731	49.9983	85355.0	2.463092	Y



Calibration

/ Iodomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

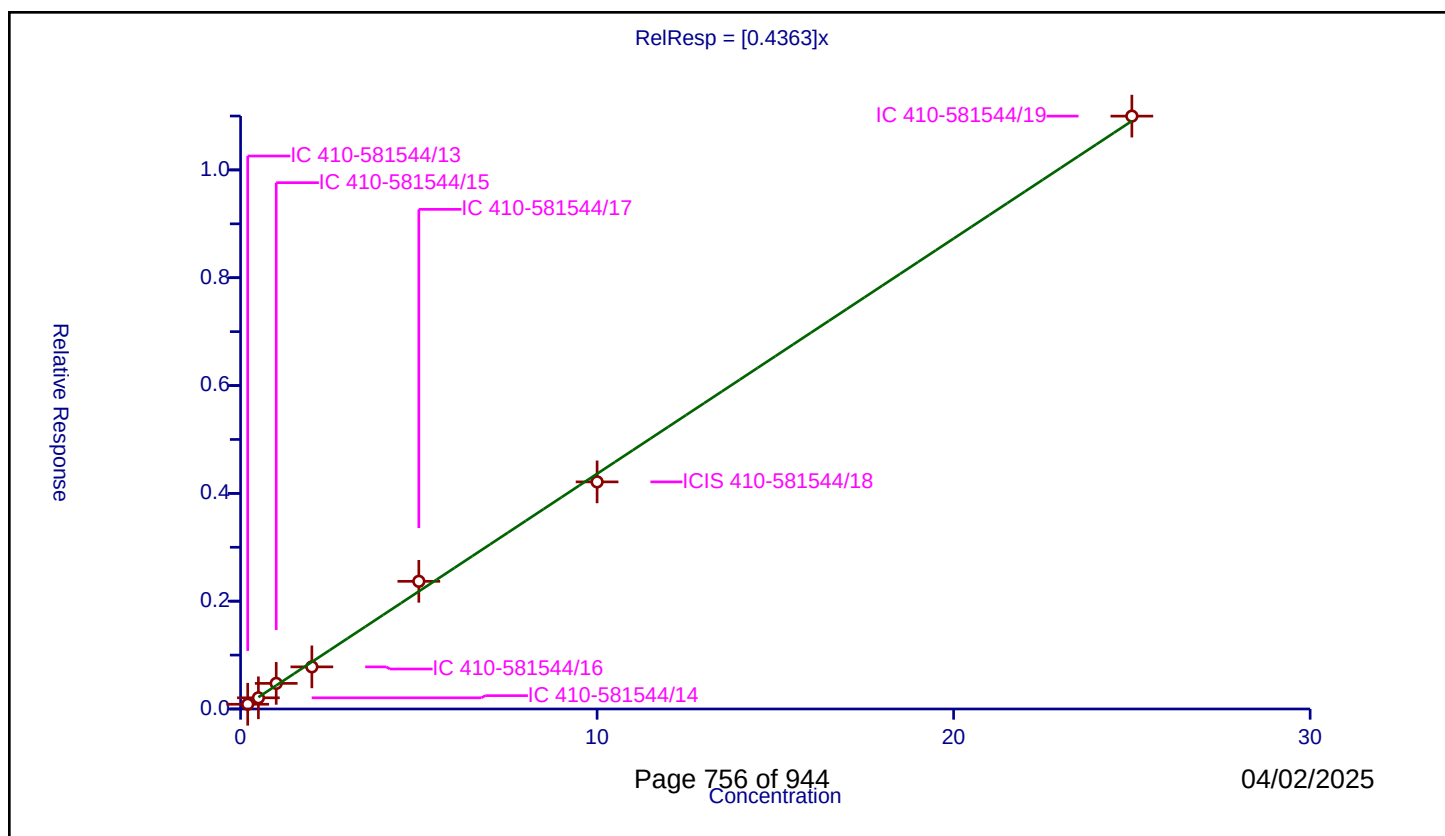
Curve Coefficients

Intercept: 0
Slope: 0.4363

Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.087694	9.99966	2031304.0	0.438472	Y
2	IC 410-581544/14	0.5	0.207511	9.99966	2087335.0	0.415022	Y
3	IC 410-581544/15	1.0	0.475111	9.99966	1927527.0	0.475111	Y
4	IC 410-581544/16	2.0	0.781352	9.99966	2105483.0	0.390676	Y
5	IC 410-581544/17	5.0	2.368481	9.99966	1950593.0	0.473696	Y
6	ICIS 410-581544/18	10.0	4.212991	9.99966	2029850.0	0.421299	Y
7	IC 410-581544/19	25.0	10.998019	9.99966	2040629.0	0.439921	Y



Calibration

/ Ethyl bromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

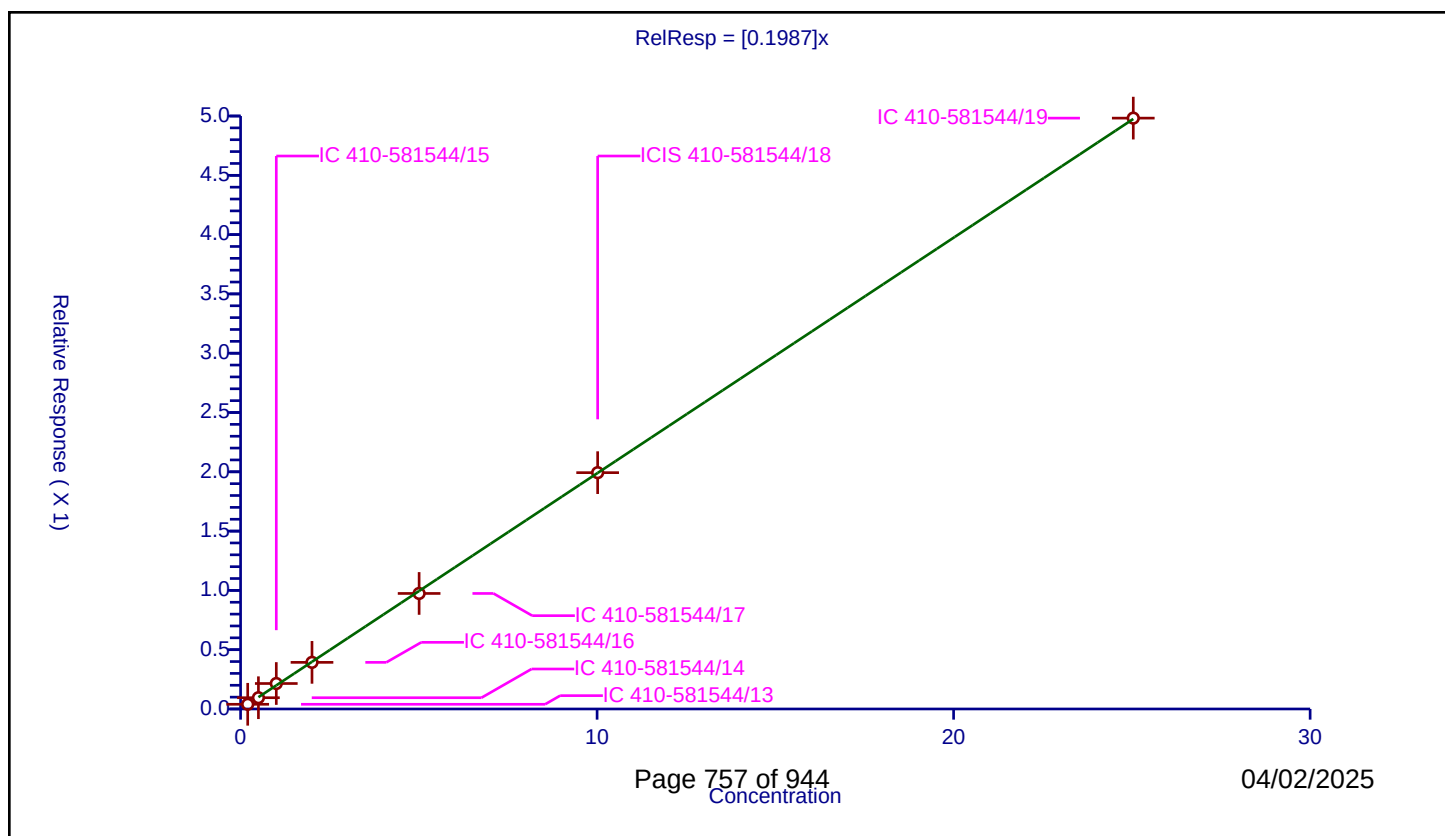
Curve Coefficients

Intercept: 0
Slope: 0.1987

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.200321	0.039609	9.99966	2031304.0	0.197726	Y
2	IC 410-581544/14	0.500802	0.095046	9.99966	2087335.0	0.189788	Y
3	IC 410-581544/15	1.001604	0.214895	9.99966	1927527.0	0.214551	Y
4	IC 410-581544/16	2.003208	0.393246	9.99966	2105483.0	0.196308	Y
5	IC 410-581544/17	5.00802	0.974265	9.99966	1950593.0	0.194541	Y
6	ICIS 410-581544/18	10.01604	1.992759	9.99966	2029850.0	0.198957	Y
7	IC 410-581544/19	25.0401	4.982265	9.99966	2040629.0	0.198971	Y



Calibration

/ Carbon disulfide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

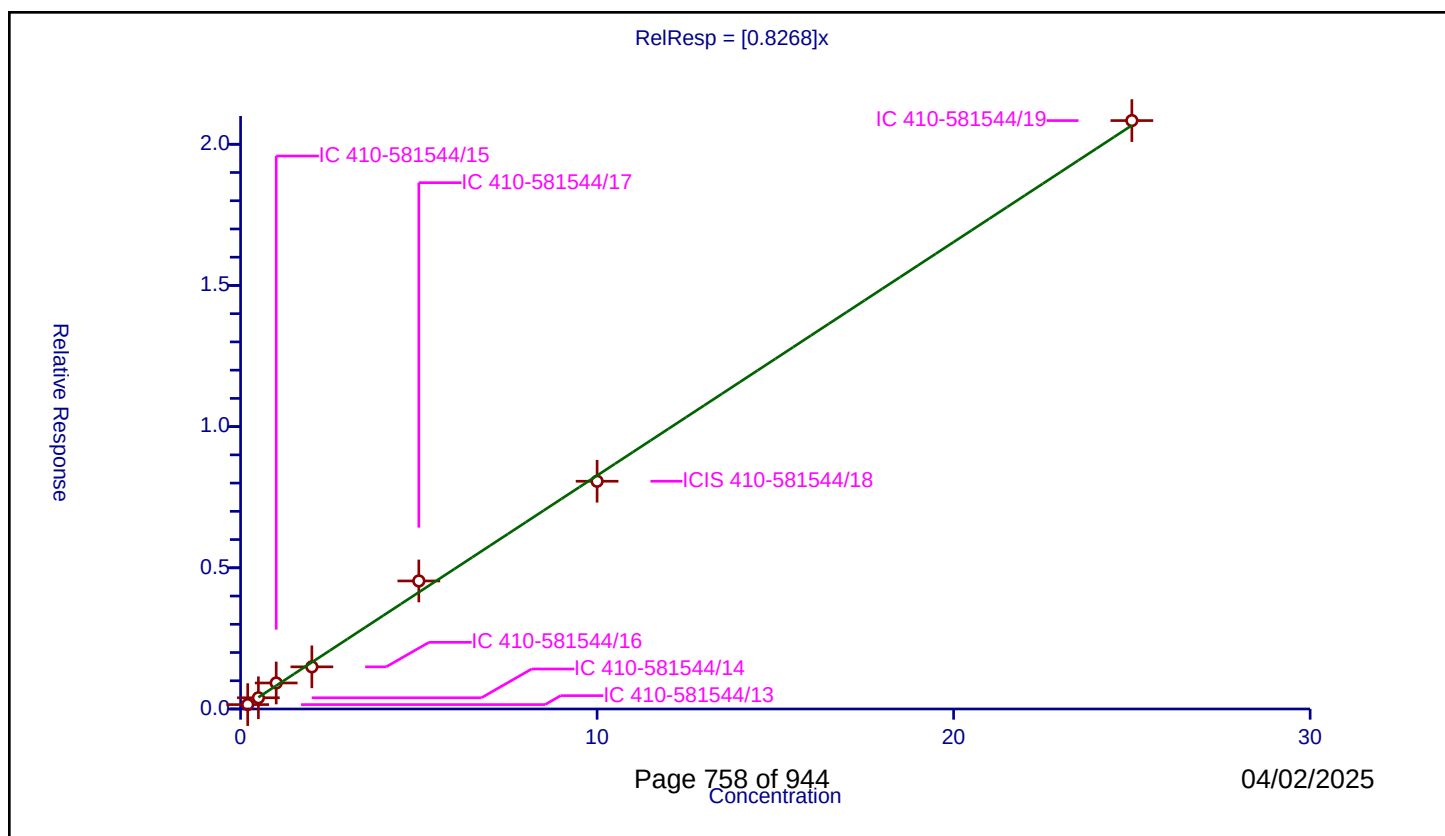
Curve Coefficients

Intercept: 0
Slope: 0.8268

Error Coefficients

Relative Standard Deviation: 7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.15556	9.99966	2031304.0	0.777799	Y
2	IC 410-581544/14	0.5	0.397513	9.99966	2087335.0	0.795025	Y
3	IC 410-581544/15	1.0	0.921574	9.99966	1927527.0	0.921574	Y
4	IC 410-581544/16	2.0	1.492148	9.99966	2105483.0	0.746074	Y
5	IC 410-581544/17	5.0	4.534441	9.99966	1950593.0	0.906888	Y
6	ICIS 410-581544/18	10.0	8.065391	9.99966	2029850.0	0.806539	Y
7	IC 410-581544/19	25.0	20.838258	9.99966	2040629.0	0.83353	Y



Calibration

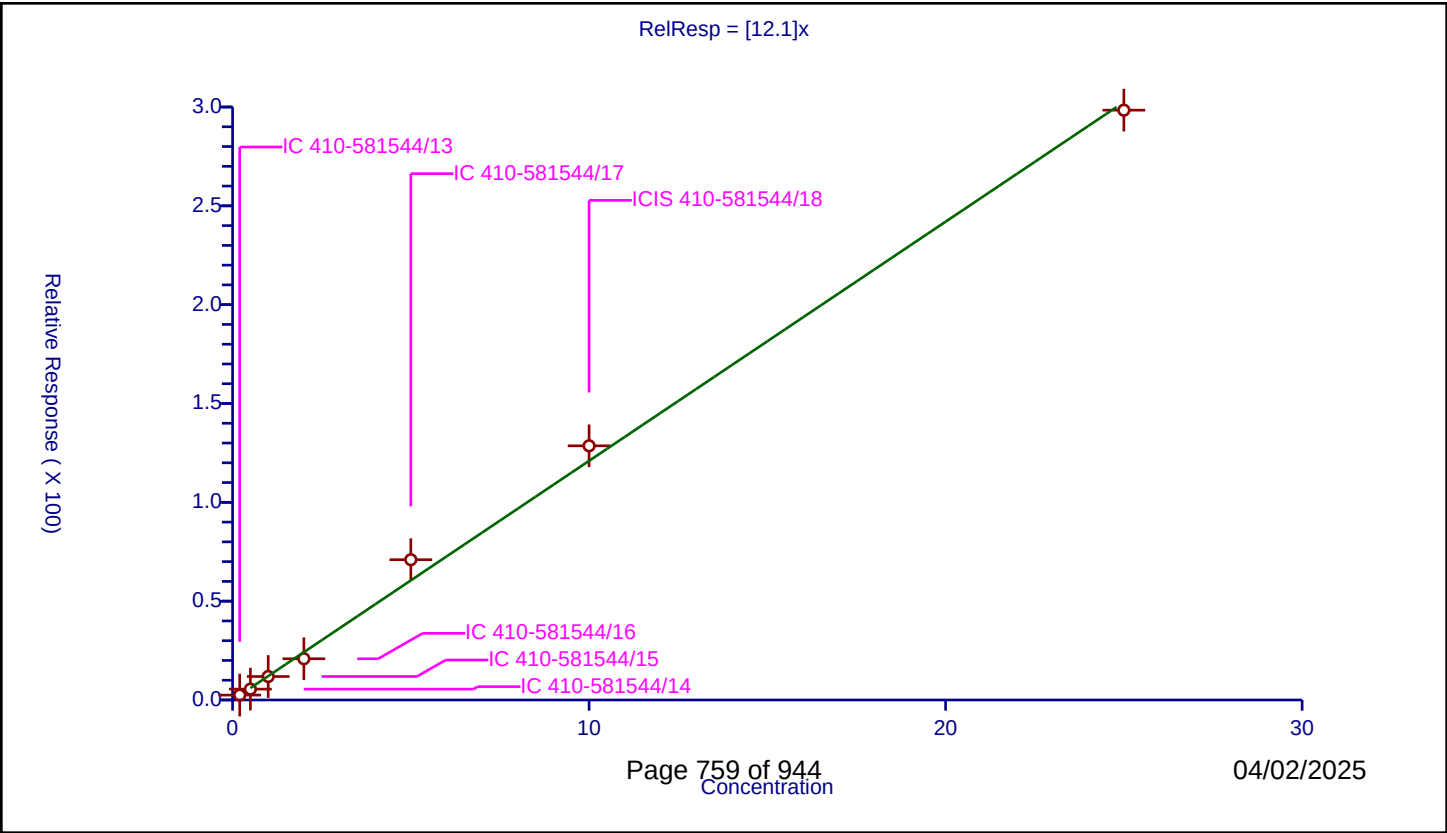
/ Methyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	12.1

Error Coefficients	
Relative Standard Deviation:	
	10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	2.47876	49.9983	75156.0	12.393799	Y
2	IC 410-581544/14	0.5	5.497423	49.9983	78234.0	10.994846	Y
3	IC 410-581544/15	1.0	11.882721	49.9983	70537.0	11.882721	Y
4	IC 410-581544/16	2.0	20.86527	49.9983	82323.0	10.432635	Y
5	IC 410-581544/17	5.0	70.965152	49.9983	72915.0	14.19303	Y
6	ICIS 410-581544/18	10.0	128.596686	49.9983	80518.0	12.859669	Y
7	IC 410-581544/19	25.0	298.404124	49.9983	85355.0	11.936165	Y



Calibration

/ 3-Chloro-1-propene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

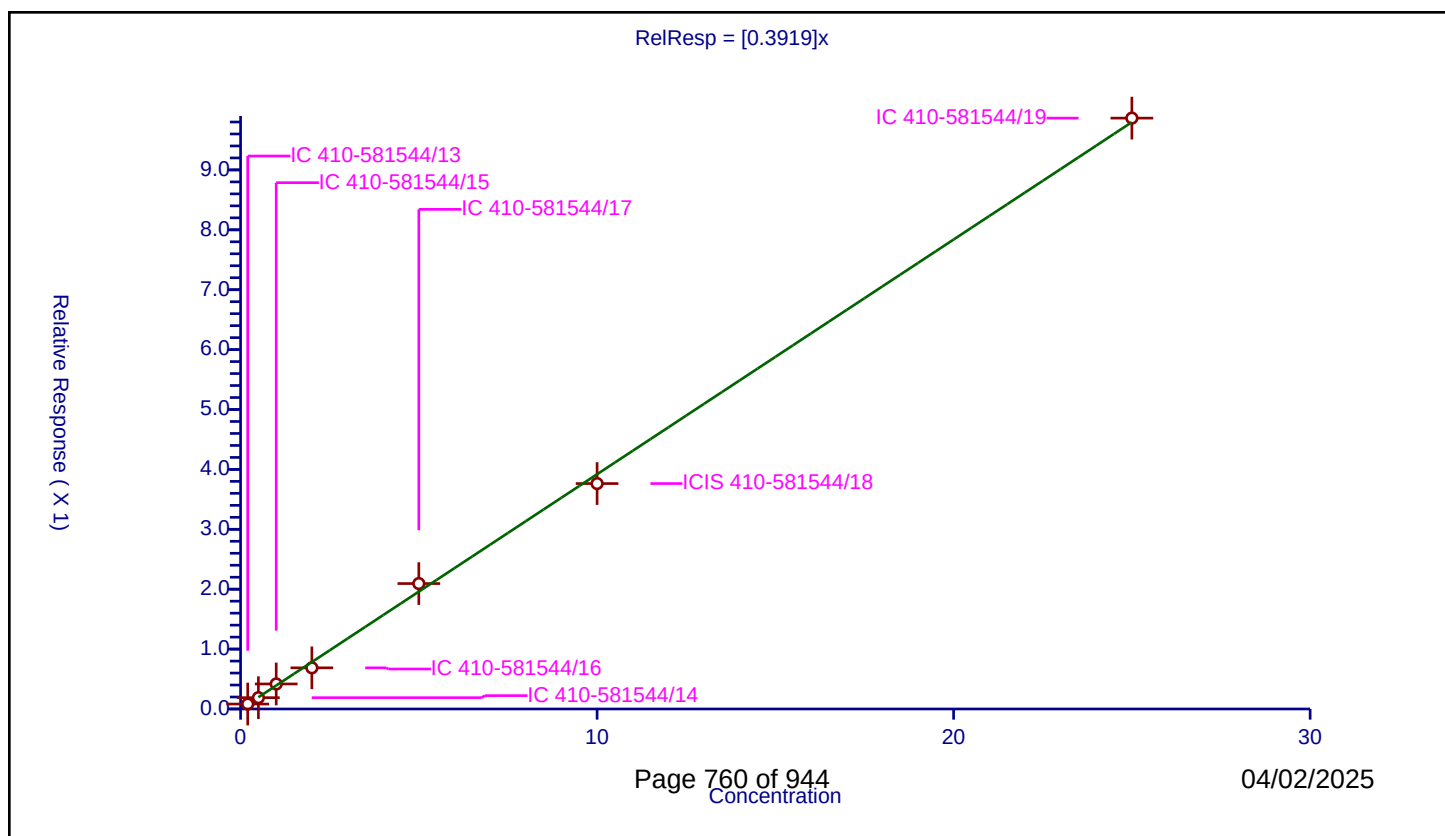
Curve Coefficients

Intercept: 0
Slope: 0.3919

Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.082747	9.99966	2031304.0	0.413735	Y
2	IC 410-581544/14	0.5	0.189096	9.99966	2087335.0	0.378192	Y
3	IC 410-581544/15	1.0	0.418008	9.99966	1927527.0	0.418008	Y
4	IC 410-581544/16	2.0	0.687282	9.99966	2105483.0	0.343641	Y
5	IC 410-581544/17	5.0	2.093938	9.99966	1950593.0	0.418788	Y
6	ICIS 410-581544/18	10.0	3.763446	9.99966	2029850.0	0.376345	Y
7	IC 410-581544/19	25.0	9.864657	9.99966	2040629.0	0.394586	Y



Calibration

/ Methylene Chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

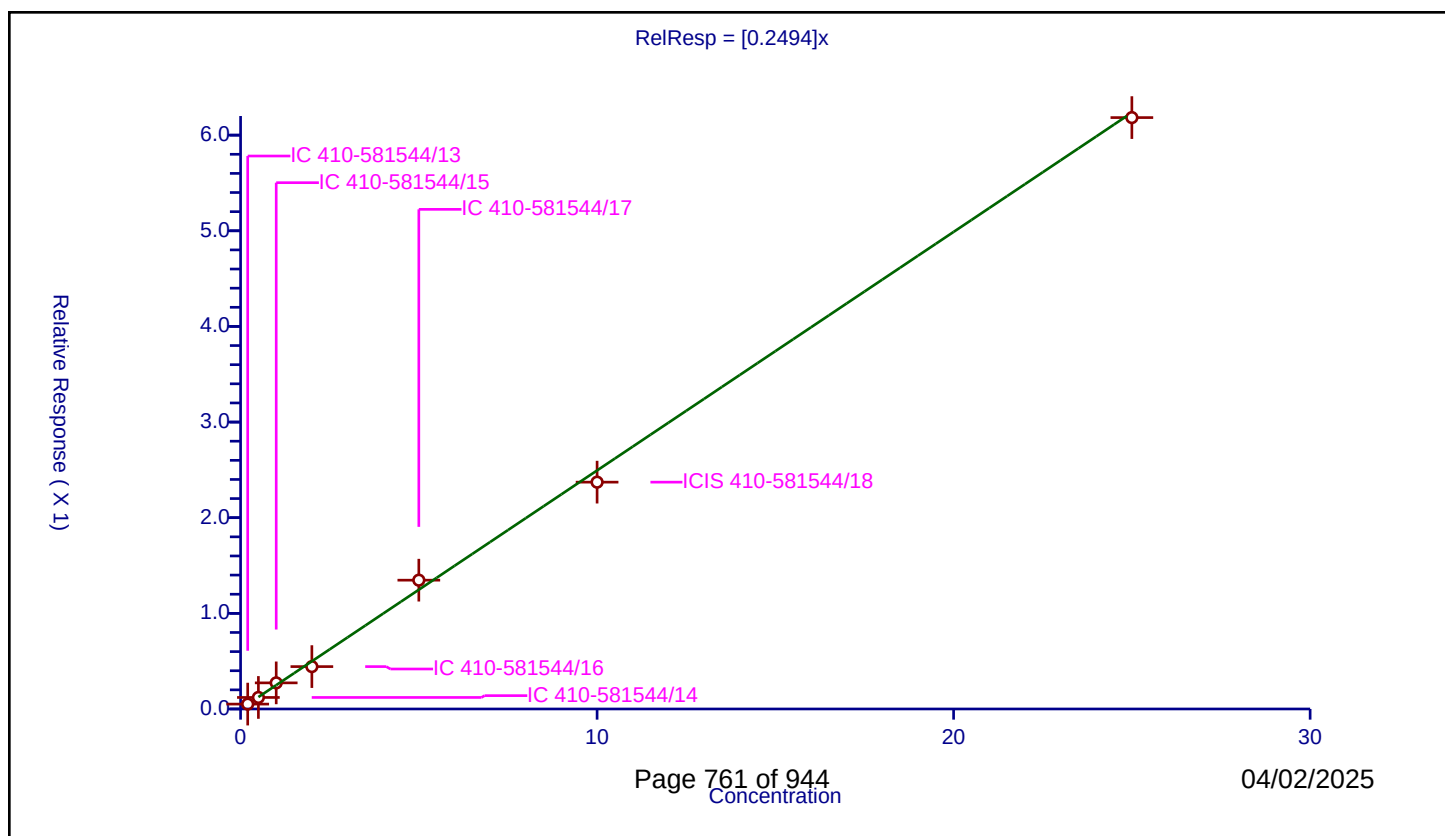
Curve Coefficients

Intercept: 0
Slope: 0.2494

Error Coefficients

Relative Standard Deviation: 7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.051212	9.99966	2031304.0	0.256058	Y
2	IC 410-581544/14	0.5	0.12059	9.99966	2087335.0	0.24118	Y
3	IC 410-581544/15	1.0	0.273102	9.99966	1927527.0	0.273102	Y
4	IC 410-581544/16	2.0	0.443318	9.99966	2105483.0	0.221659	Y
5	IC 410-581544/17	5.0	1.34696	9.99966	1950593.0	0.269392	Y
6	ICIS 410-581544/18	10.0	2.371735	9.99966	2029850.0	0.237174	Y
7	IC 410-581544/19	25.0	6.183481	9.99966	2040629.0	0.247339	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

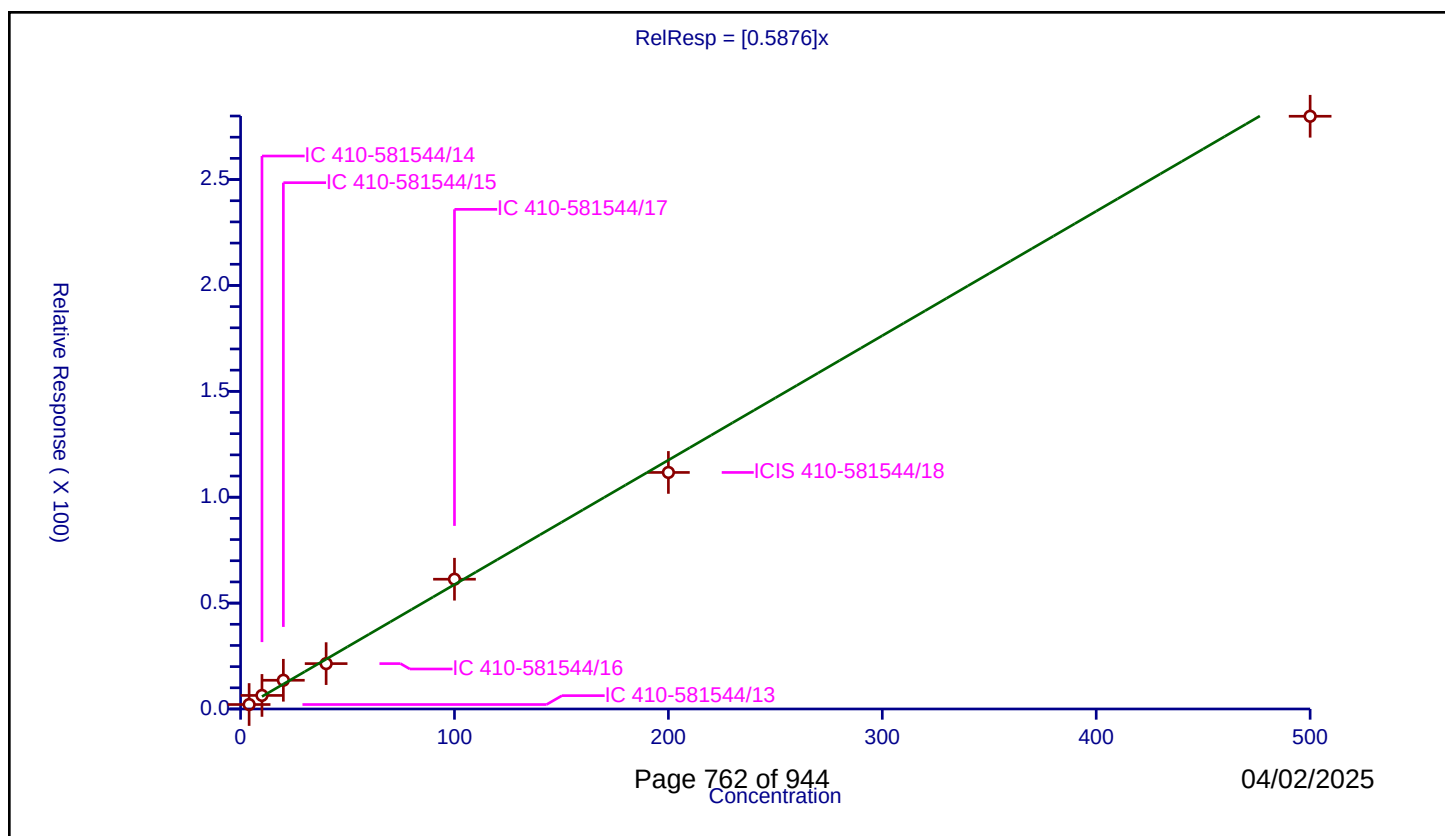
Curve Coefficients

Intercept: 0
Slope: 0.5876

Error Coefficients

Relative Standard Deviation: 9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	4.0	2.113532	49.9983	75156.0	0.528383	Y
2	IC 410-581544/14	10.0	6.397257	49.9983	78234.0	0.639726	Y
3	IC 410-581544/15	20.0	13.569013	49.9983	70537.0	0.678451	Y
4	IC 410-581544/16	40.0	21.423418	49.9983	82323.0	0.535585	Y
5	IC 410-581544/17	100.0	61.282974	49.9983	72915.0	0.61283	Y
6	ICIS 410-581544/18	200.0	111.69545	49.9983	80518.0	0.558477	Y
7	IC 410-581544/19	500.0	279.892071	49.9983	85355.0	0.559784	Y



Calibration

/ Acrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

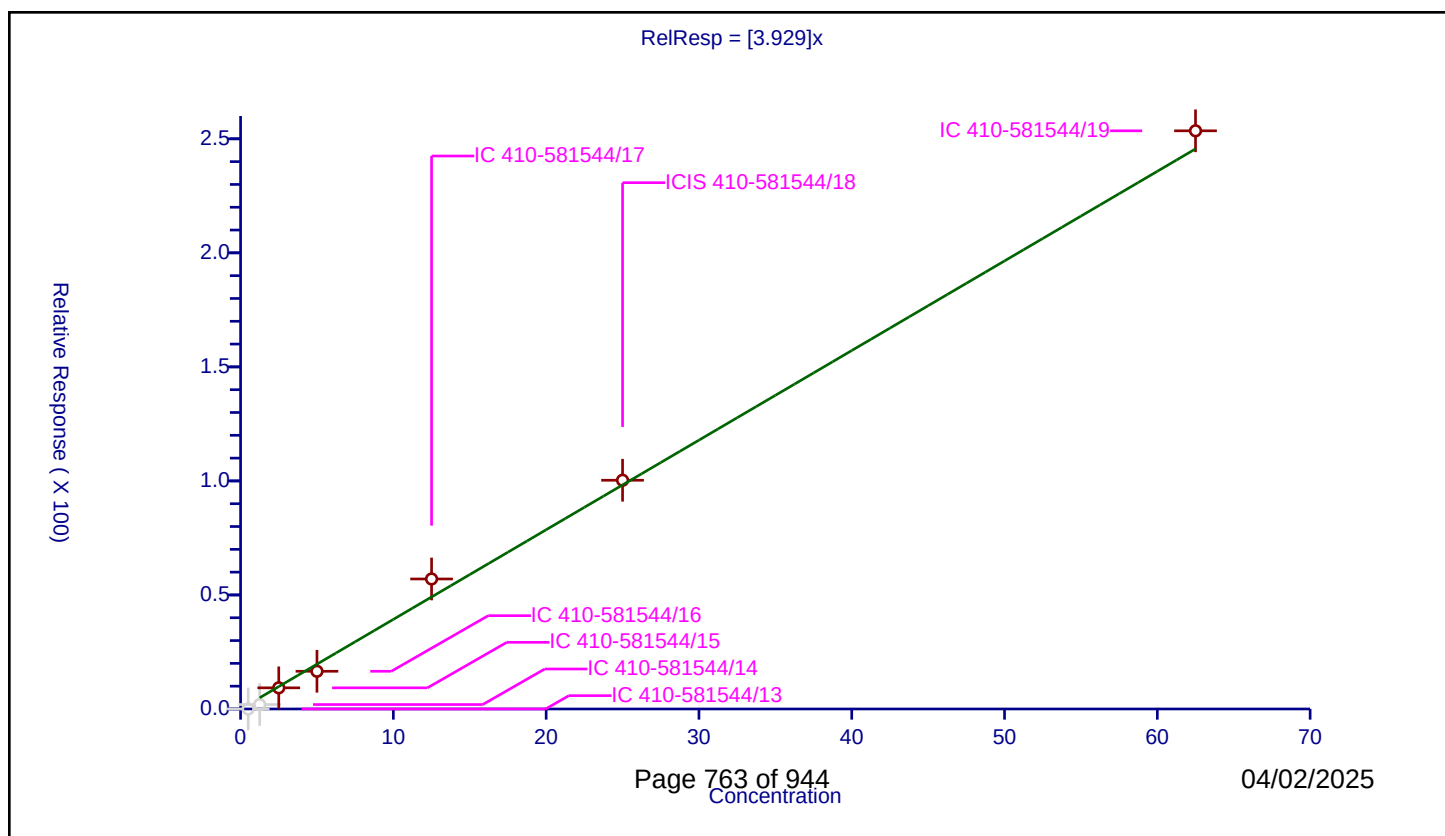
Curve Coefficients

Intercept: 0
Slope: 3.929

Error Coefficients

Relative Standard Deviation: 11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.5	0.0	49.9983	75156.0	0.0	N
2	IC 410-581544/14	1.25	1.941545	49.9983	78234.0	1.553236	N
3	IC 410-581544/15	2.5	9.27425	49.9983	70537.0	3.7097	Y
4	IC 410-581544/16	5.0	16.540987	49.9983	82323.0	3.308197	Y
5	IC 410-581544/17	12.5	57.00485	49.9983	72915.0	4.560388	Y
6	ICIS 410-581544/18	25.0	100.297144	49.9983	80518.0	4.011886	Y
7	IC 410-581544/19	62.5	253.509628	49.9983	85355.0	4.056154	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

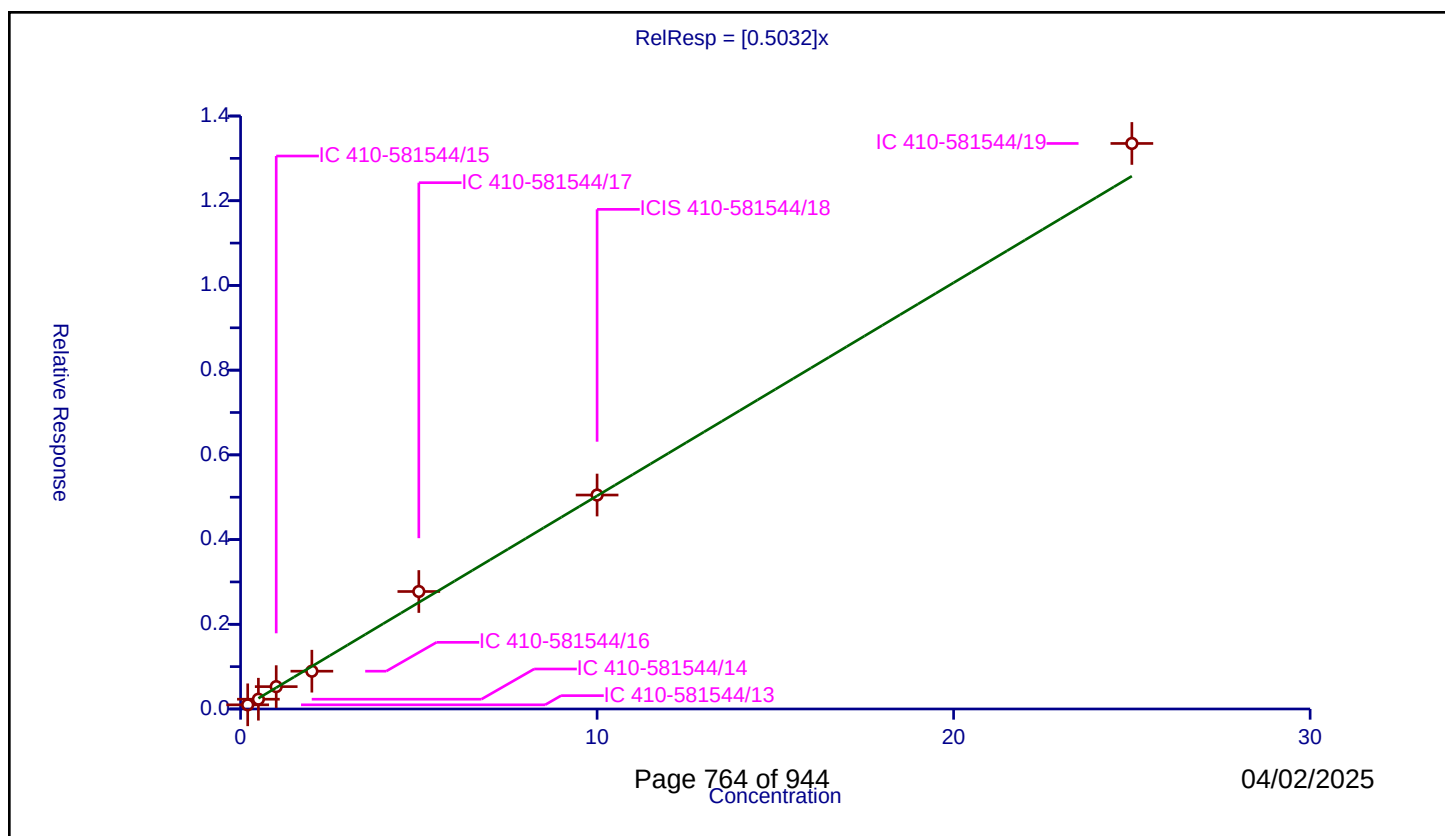
Curve Coefficients

Intercept: 0
Slope: 0.5032

Error Coefficients

Relative Standard Deviation: 7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.098544	9.99966	2031304.0	0.492721	Y
2	IC 410-581544/14	0.5	0.230669	9.99966	2087335.0	0.461338	Y
3	IC 410-581544/15	1.0	0.52811	9.99966	1927527.0	0.52811	Y
4	IC 410-581544/16	2.0	0.892601	9.99966	2105483.0	0.4463	Y
5	IC 410-581544/17	5.0	2.773544	9.99966	1950593.0	0.554709	Y
6	ICIS 410-581544/18	10.0	5.051586	9.99966	2029850.0	0.505159	Y
7	IC 410-581544/19	25.0	13.352199	9.99966	2040629.0	0.534088	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

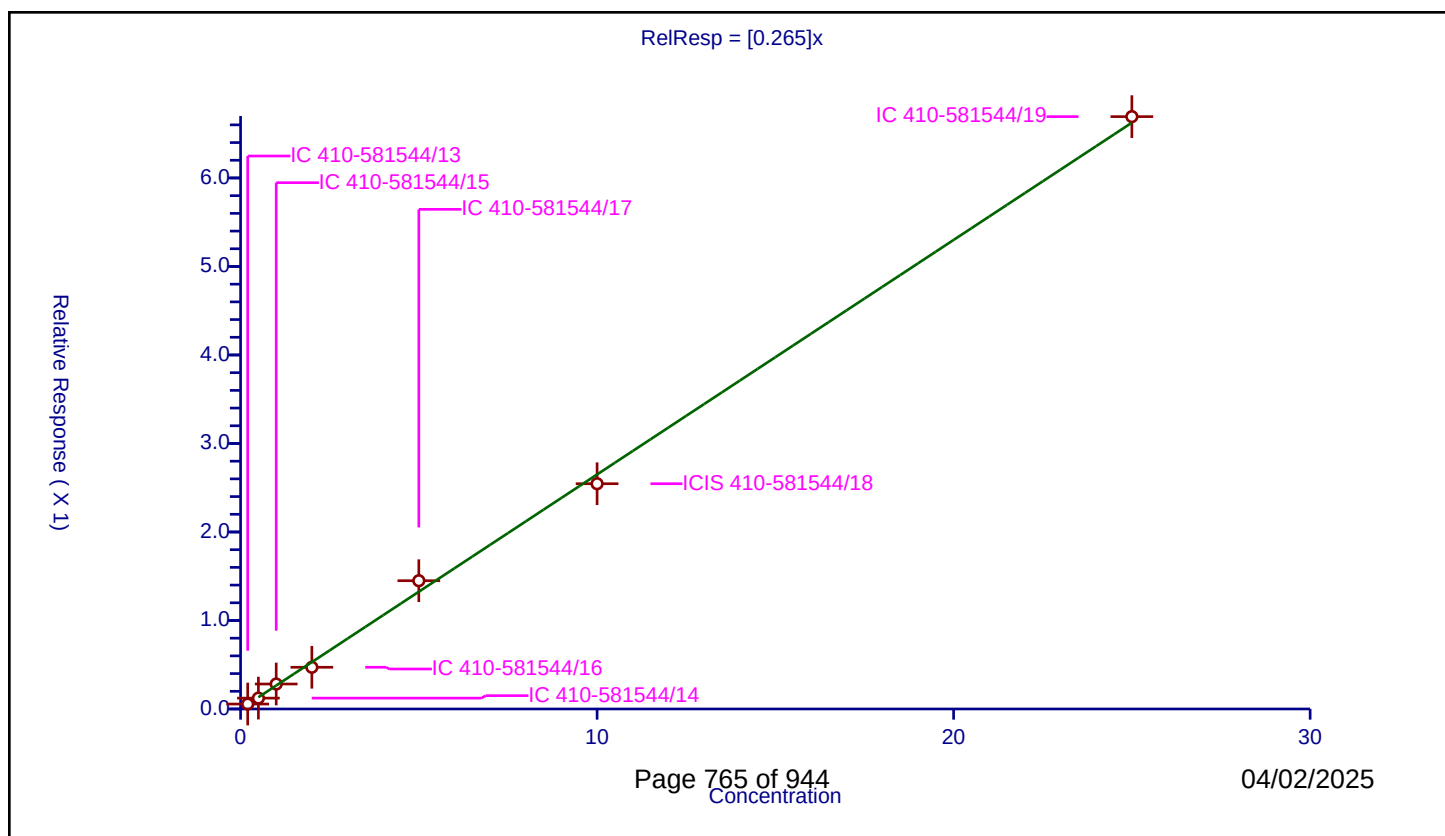
Curve Coefficients

Intercept: 0
Slope: 0.265

Error Coefficients

Relative Standard Deviation: 7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.055814	9.99966	2031304.0	0.279072	Y
2	IC 410-581544/14	0.5	0.122894	9.99966	2087335.0	0.245788	Y
3	IC 410-581544/15	1.0	0.282176	9.99966	1927527.0	0.282176	Y
4	IC 410-581544/16	2.0	0.471429	9.99966	2105483.0	0.235715	Y
5	IC 410-581544/17	5.0	1.449402	9.99966	1950593.0	0.28988	Y
6	ICIS 410-581544/18	10.0	2.545422	9.99966	2029850.0	0.254542	Y
7	IC 410-581544/19	25.0	6.693194	9.99966	2040629.0	0.267728	Y



Calibration

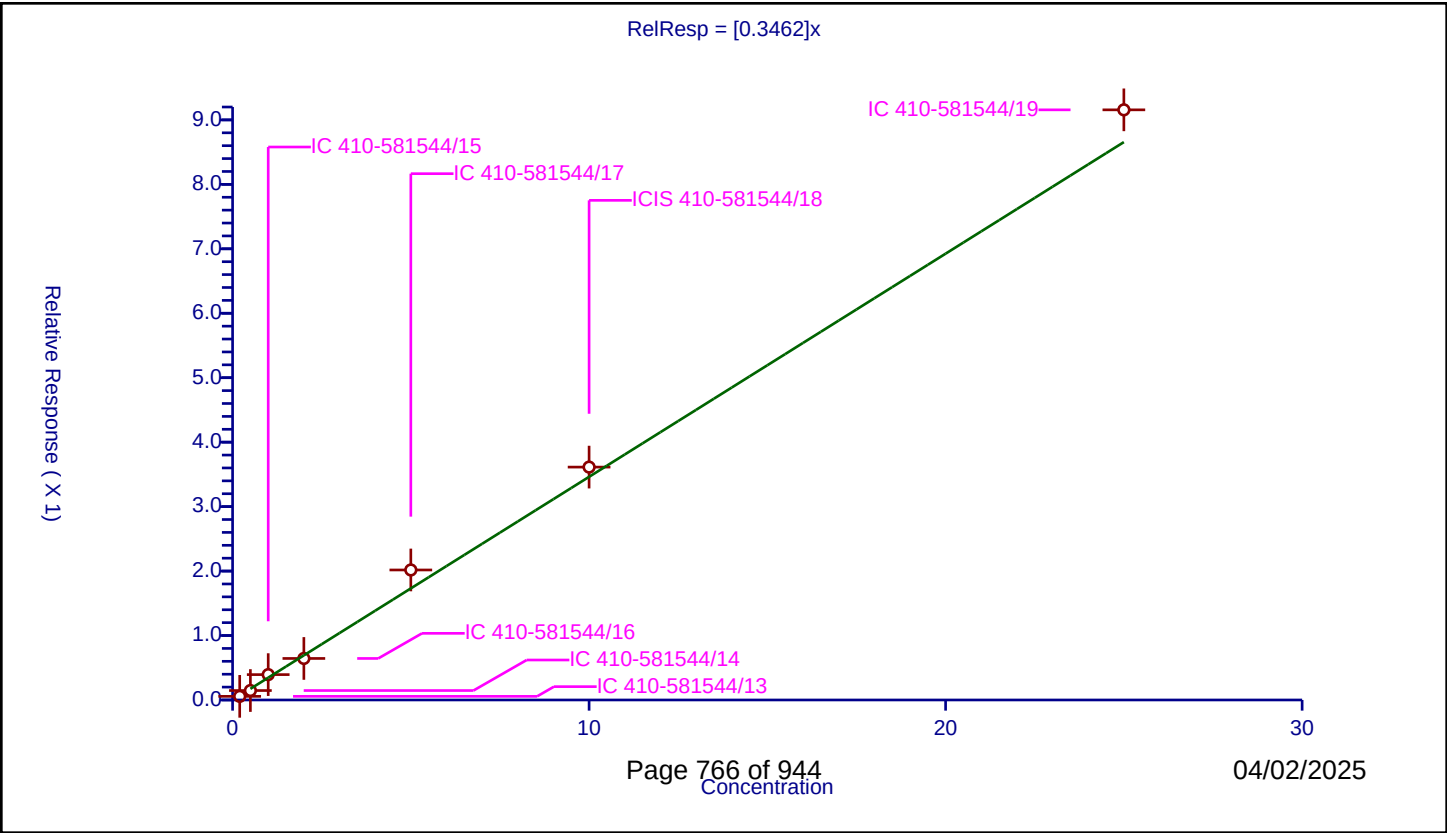
/ Hexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3462
Error Coefficients	

Relative Standard Deviation: 13.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.056666	9.99966	2031304.0	0.283331	Y
2	IC 410-581544/14	0.5	0.146713	9.99966	2087335.0	0.293426	Y
3	IC 410-581544/15	1.0	0.393584	9.99966	1927527.0	0.393584	Y
4	IC 410-581544/16	2.0	0.644358	9.99966	2105483.0	0.322179	Y
5	IC 410-581544/17	5.0	2.017349	9.99966	1950593.0	0.40347	Y
6	ICIS 410-581544/18	10.0	3.613489	9.99966	2029850.0	0.361349	Y
7	IC 410-581544/19	25.0	9.156331	9.99966	2040629.0	0.366253	Y



Calibration

/ 1,1-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

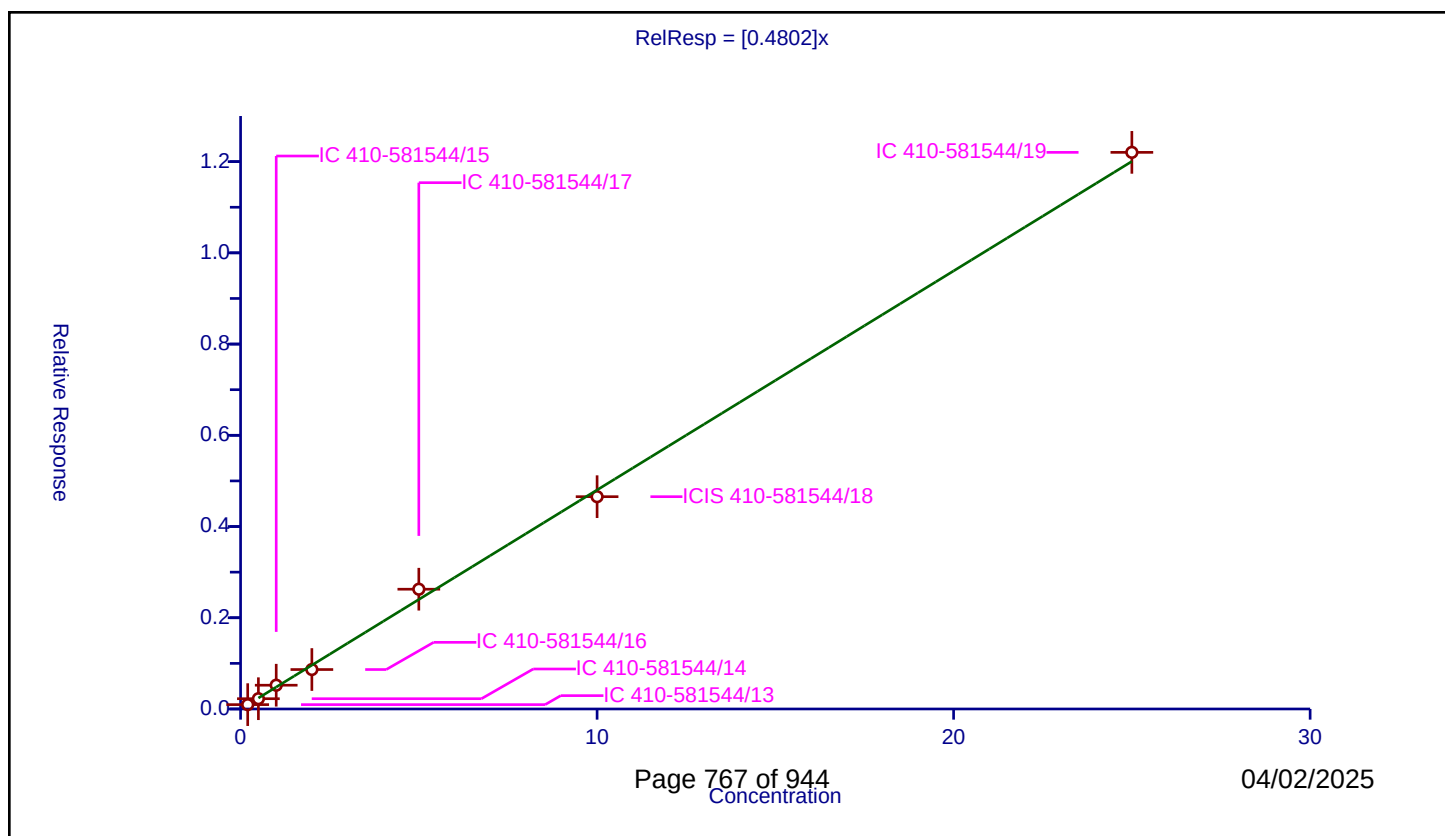
Curve Coefficients

Intercept: 0
Slope: 0.4802

Error Coefficients

Relative Standard Deviation: 7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.095595	9.99966	2031304.0	0.477977	Y
2	IC 410-581544/14	0.5	0.225404	9.99966	2087335.0	0.450808	Y
3	IC 410-581544/15	1.0	0.521272	9.99966	1927527.0	0.521272	Y
4	IC 410-581544/16	2.0	0.865202	9.99966	2105483.0	0.432601	Y
5	IC 410-581544/17	5.0	2.62581	9.99966	1950593.0	0.525162	Y
6	ICIS 410-581544/18	10.0	4.654255	9.99966	2029850.0	0.465425	Y
7	IC 410-581544/19	25.0	12.20292	9.99966	2040629.0	0.488117	Y



Calibration

/ Isopropyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

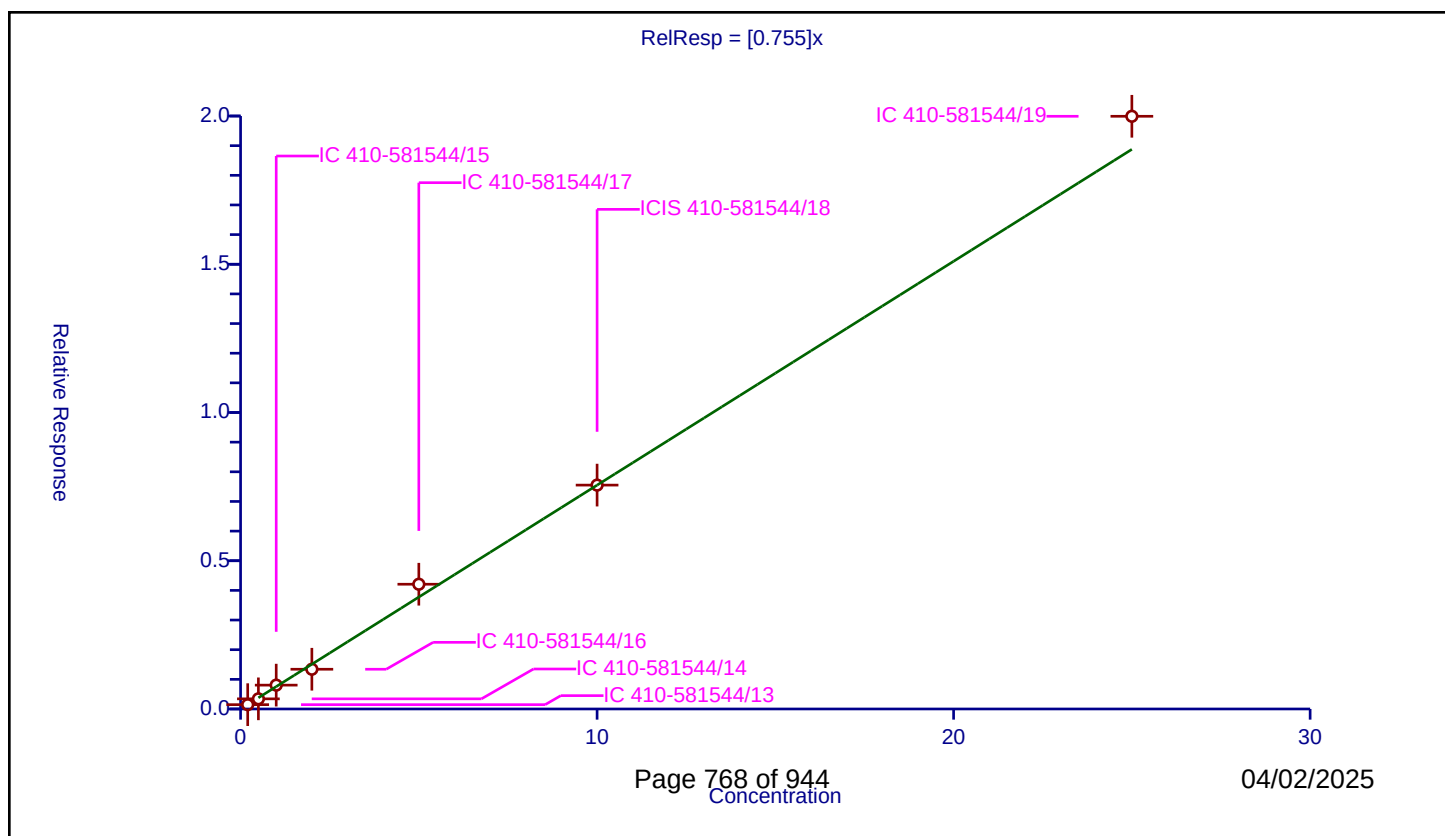
Curve Coefficients

Intercept: 0
 Slope: 0.755

Error Coefficients

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.145827	9.99966	2031304.0	0.729137	Y
2	IC 410-581544/14	0.5	0.342449	9.99966	2087335.0	0.684898	Y
3	IC 410-581544/15	1.0	0.804325	9.99966	1927527.0	0.804325	Y
4	IC 410-581544/16	2.0	1.340825	9.99966	2105483.0	0.670412	Y
5	IC 410-581544/17	5.0	4.207885	9.99966	1950593.0	0.841577	Y
6	ICIS 410-581544/18	10.0	7.550986	9.99966	2029850.0	0.755099	Y
7	IC 410-581544/19	25.0	19.991127	9.99966	2040629.0	0.799645	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

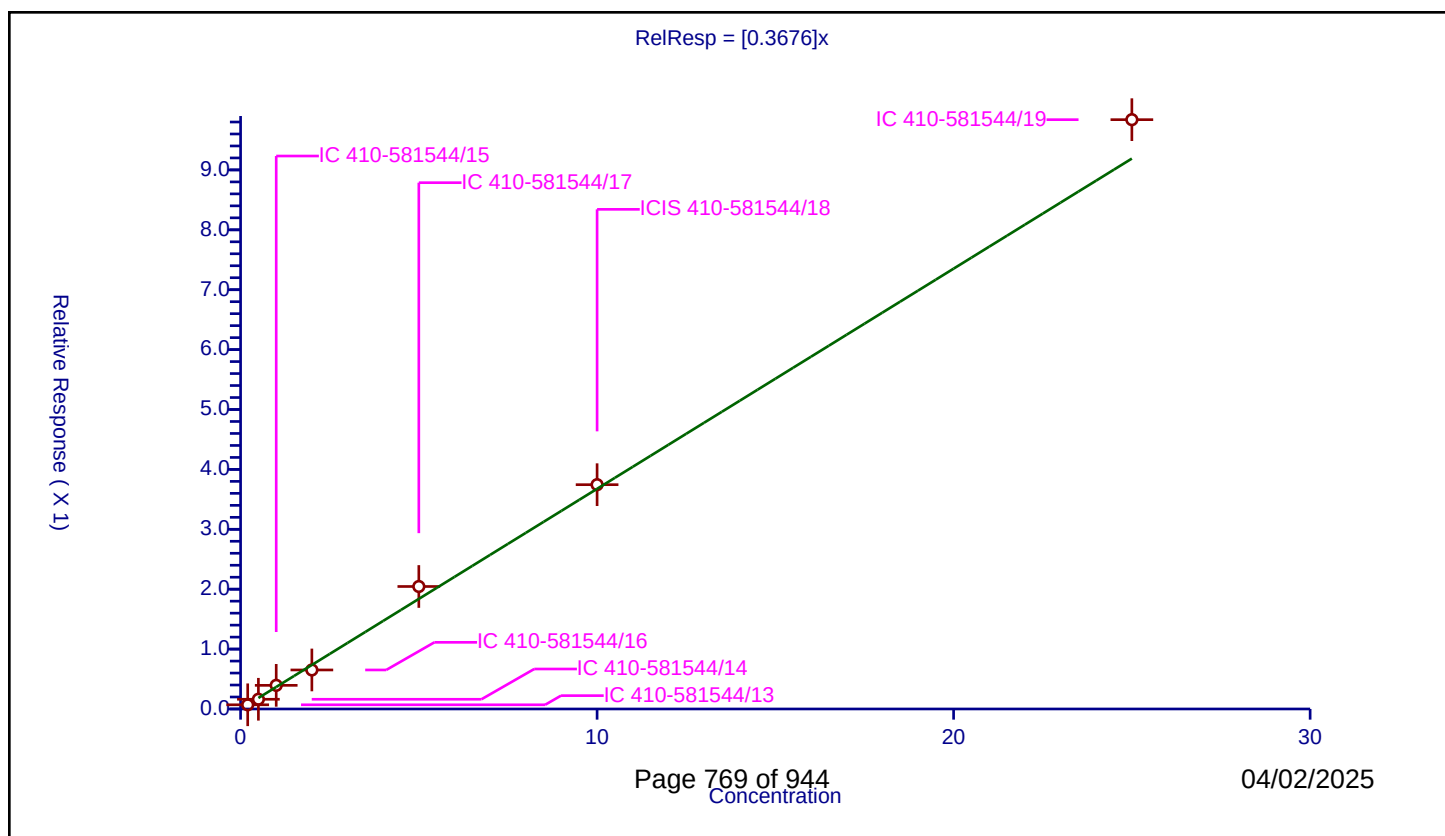
Curve Coefficients

Intercept: 0
Slope: 0.3676

Error Coefficients

Relative Standard Deviation: 9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.070155	9.99966	2031304.0	0.350773	Y
2	IC 410-581544/14	0.5	0.162302	9.99966	2087335.0	0.324604	Y
3	IC 410-581544/15	1.0	0.394803	9.99966	1927527.0	0.394803	Y
4	IC 410-581544/16	2.0	0.651657	9.99966	2105483.0	0.325829	Y
5	IC 410-581544/17	5.0	2.044975	9.99966	1950593.0	0.408995	Y
6	ICIS 410-581544/18	10.0	3.744918	9.99966	2029850.0	0.374492	Y
7	IC 410-581544/19	25.0	9.838931	9.99966	2040629.0	0.393557	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

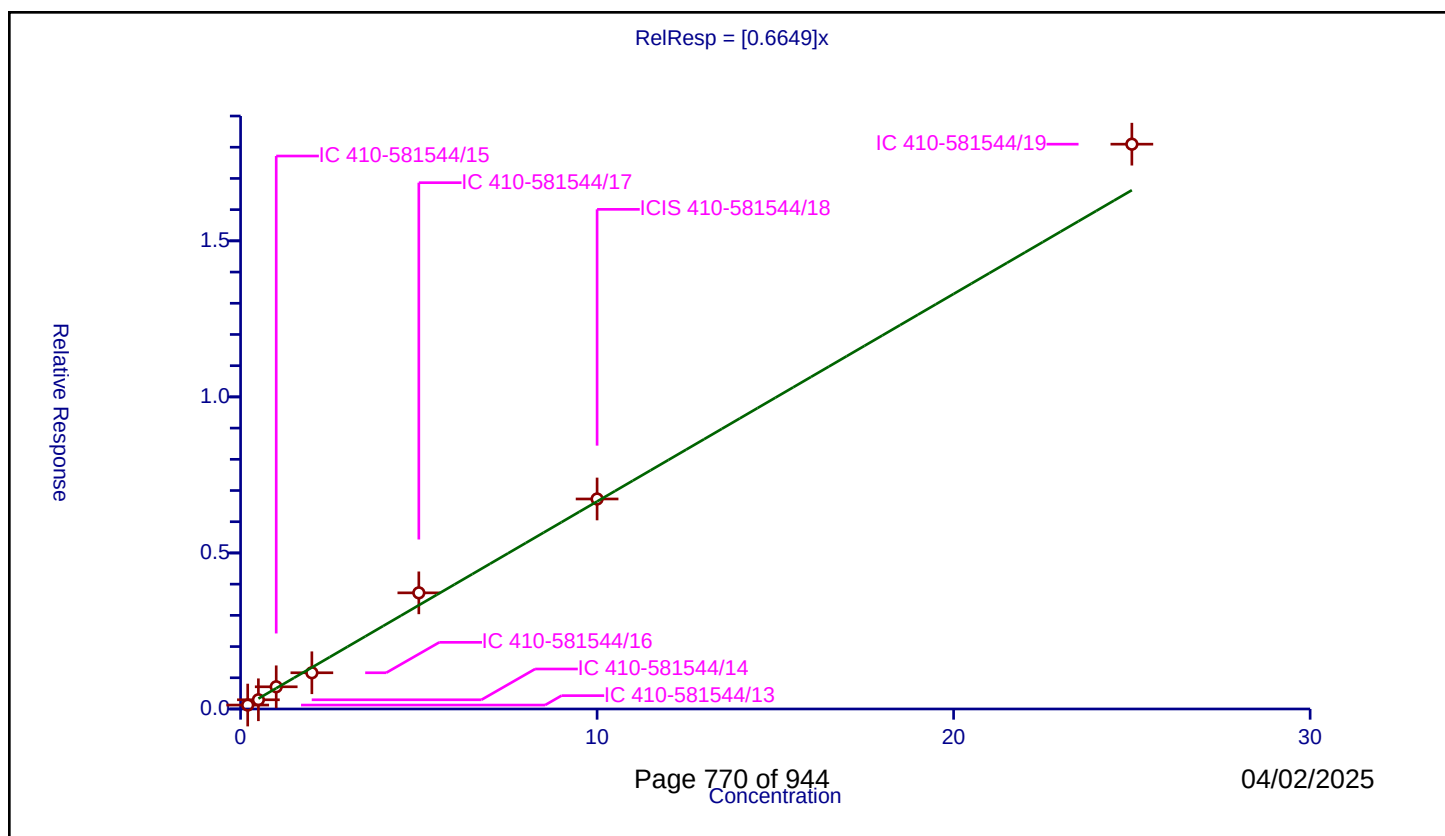
Curve Coefficients

Intercept: 0
Slope: 0.6649

Error Coefficients

Relative Standard Deviation: 9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.12621	9.99966	2031304.0	0.631051	Y
2	IC 410-581544/14	0.5	0.295266	9.99966	2087335.0	0.590532	Y
3	IC 410-581544/15	1.0	0.711613	9.99966	1927527.0	0.711613	Y
4	IC 410-581544/16	2.0	1.160464	9.99966	2105483.0	0.580232	Y
5	IC 410-581544/17	5.0	3.721875	9.99966	1950593.0	0.744375	Y
6	ICIS 410-581544/18	10.0	6.729249	9.99966	2029850.0	0.672925	Y
7	IC 410-581544/19	25.0	18.097799	9.99966	2040629.0	0.723912	Y



Calibration

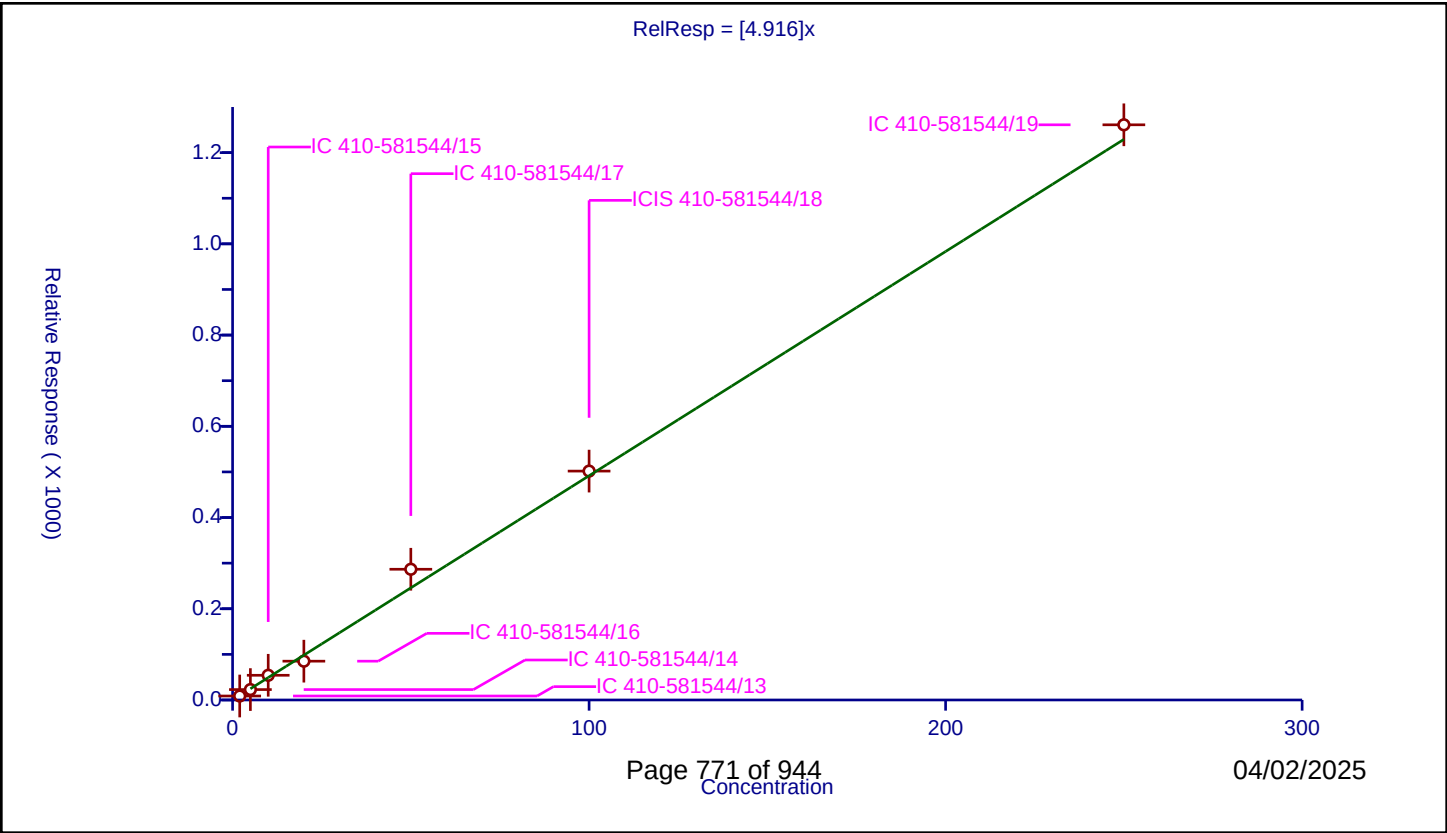
/ 2-Butanone (MEK)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.916
Error Coefficients	

Relative Standard Deviation: 11.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	2.0	8.760812	49.9983	75156.0	4.380406	Y
2	IC 410-581544/14	5.0	22.85118	49.9983	78234.0	4.570236	Y
3	IC 410-581544/15	10.0	54.142084	49.9983	70537.0	5.414208	Y
4	IC 410-581544/16	20.0	85.094224	49.9983	82323.0	4.254711	Y
5	IC 410-581544/17	50.0	286.593149	49.9983	72915.0	5.731863	Y
6	ICIS 410-581544/18	100.0	501.784399	49.9983	80518.0	5.017844	Y
7	IC 410-581544/19	250.0	1260.987527	49.9983	85355.0	5.04395	Y



Calibration

/ 2,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

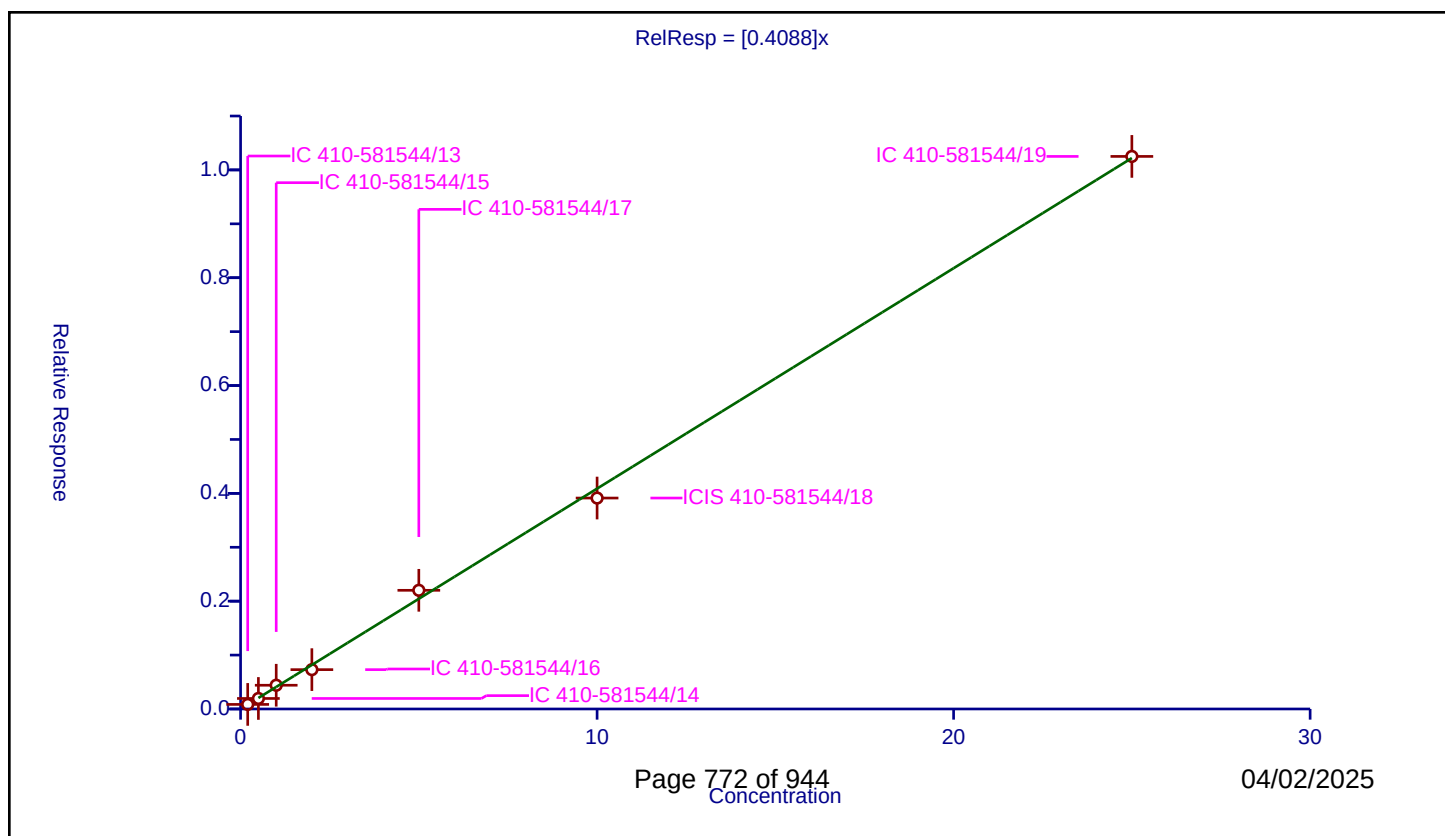
Curve Coefficients

Intercept: 0
 Slope: 0.4088

Error Coefficients

Relative Standard Deviation: 6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.08479	9.99966	2031304.0	0.42395	Y
2	IC 410-581544/14	0.5	0.195372	9.99966	2087335.0	0.390743	Y
3	IC 410-581544/15	1.0	0.440285	9.99966	1927527.0	0.440285	Y
4	IC 410-581544/16	2.0	0.729998	9.99966	2105483.0	0.364999	Y
5	IC 410-581544/17	5.0	2.201727	9.99966	1950593.0	0.440345	Y
6	ICIS 410-581544/18	10.0	3.913319	9.99966	2029850.0	0.391332	Y
7	IC 410-581544/19	25.0	10.250339	9.99966	2040629.0	0.410014	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

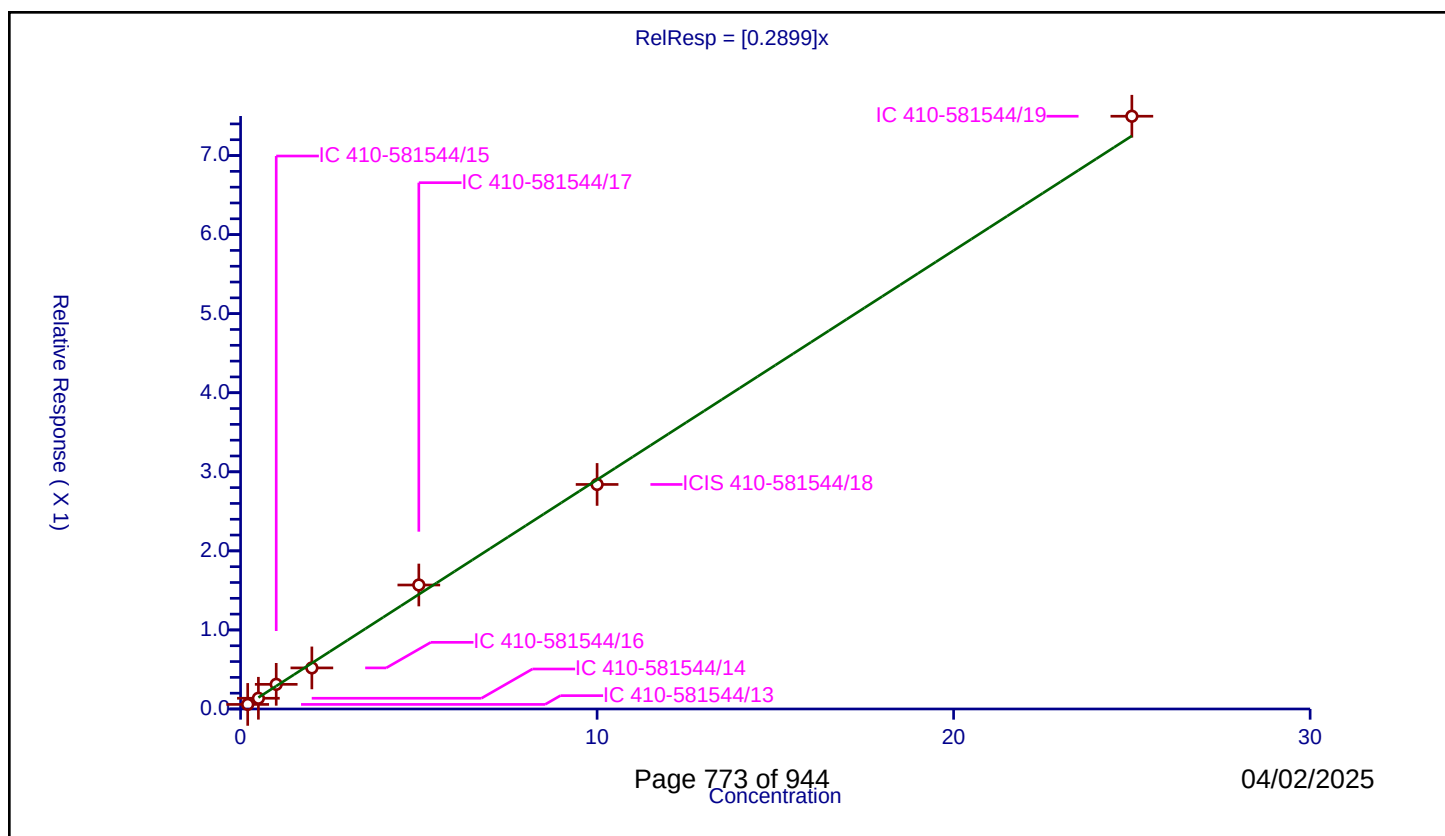
Curve Coefficients

Intercept: 0
Slope: 0.2899

Error Coefficients

Relative Standard Deviation: 6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.057675	9.99966	2031304.0	0.288376	Y
2	IC 410-581544/14	0.5	0.135891	9.99966	2087335.0	0.271782	Y
3	IC 410-581544/15	1.0	0.311954	9.99966	1927527.0	0.311954	Y
4	IC 410-581544/16	2.0	0.51973	9.99966	2105483.0	0.259865	Y
5	IC 410-581544/17	5.0	1.568218	9.99966	1950593.0	0.313644	Y
6	ICIS 410-581544/18	10.0	2.839995	9.99966	2029850.0	0.284	Y
7	IC 410-581544/19	25.0	7.49735	9.99966	2040629.0	0.299894	Y



Calibration

/ Propionitrile

Curve Type: Quadratic
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

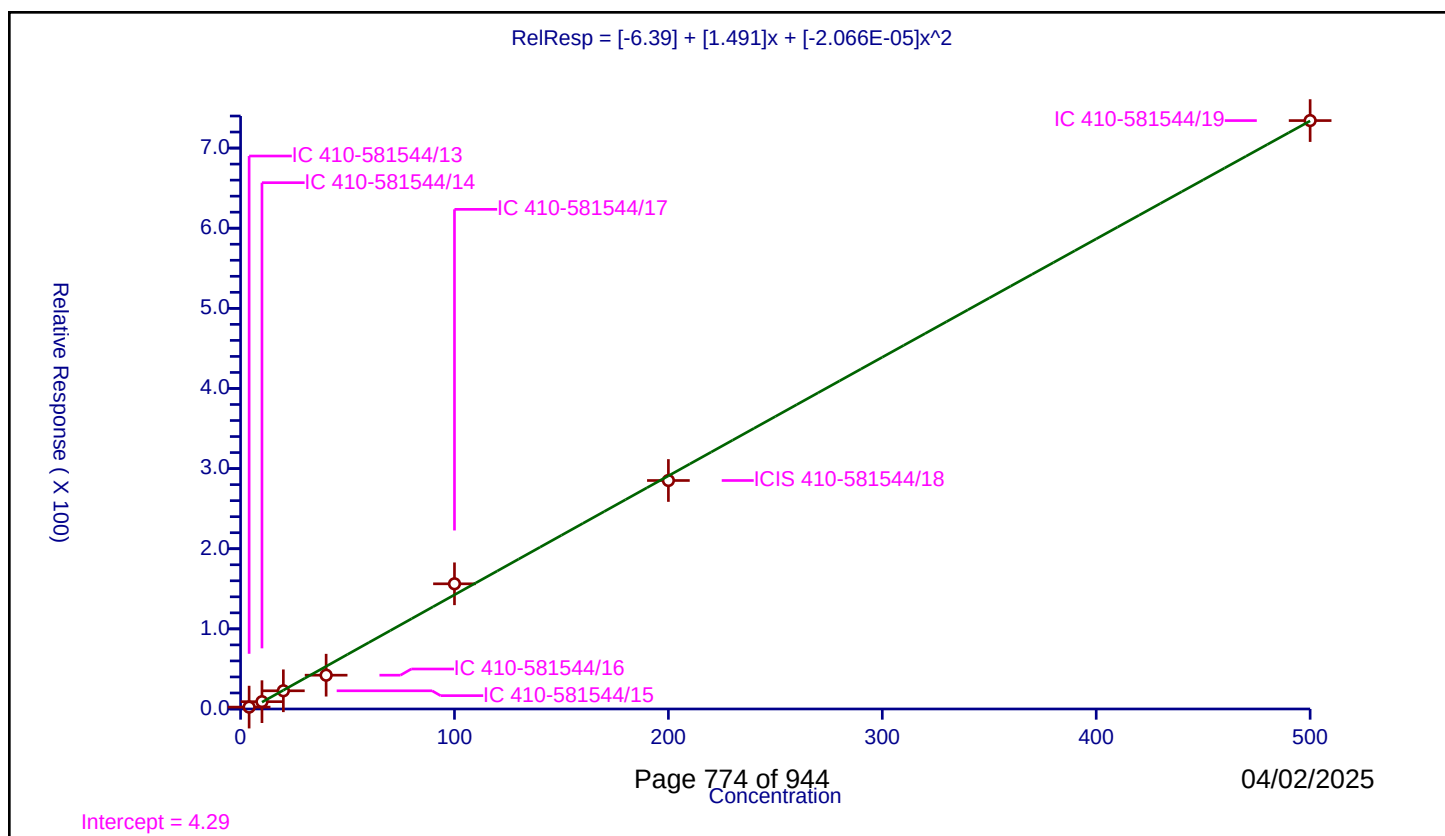
Curve Coefficients

Intercept: -6.39
Slope: 1.491
Second Order: -2.066E-05

Error Coefficients

Relative Standard Deviation: 25.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	4.0	2.332402	49.9983	75156.0	0.583101	Y
2	IC 410-581544/14	10.0	9.122322	49.9983	78234.0	0.912232	Y
3	IC 410-581544/15	20.0	22.696536	49.9983	70537.0	1.134827	Y
4	IC 410-581544/16	40.0	42.176329	49.9983	82323.0	1.054408	Y
5	IC 410-581544/17	100.0	156.233459	49.9983	72915.0	1.562335	Y
6	ICIS 410-581544/18	200.0	285.145798	49.9983	80518.0	1.425729	Y
7	IC 410-581544/19	500.0	734.314556	49.9983	85355.0	1.468629	Y



Calibration

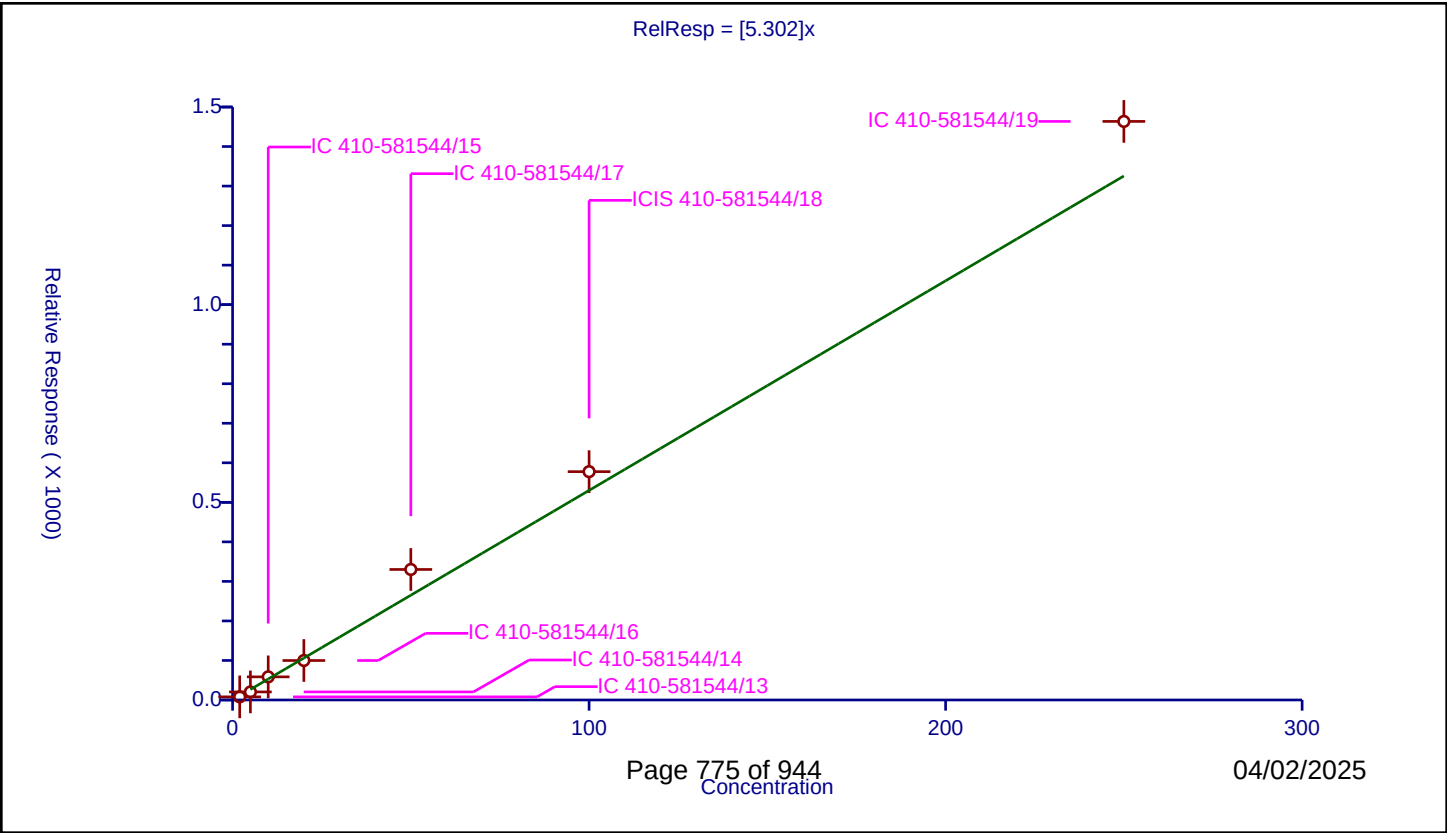
/ Methacrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.302

Error Coefficients	
Relative Standard Deviation:	18.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	2.0	7.918593	49.9983	75156.0	3.959296	Y
2	IC 410-581544/14	5.0	20.382388	49.9983	78234.0	4.076478	Y
3	IC 410-581544/15	10.0	58.502767	49.9983	70537.0	5.850277	Y
4	IC 410-581544/16	20.0	99.898818	49.9983	82323.0	4.994941	Y
5	IC 410-581544/17	50.0	330.150607	49.9983	72915.0	6.603012	Y
6	ICIS 410-581544/18	100.0	577.611449	49.9983	80518.0	5.776114	Y
7	IC 410-581544/19	250.0	1463.571583	49.9983	85355.0	5.854286	Y



Calibration

/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

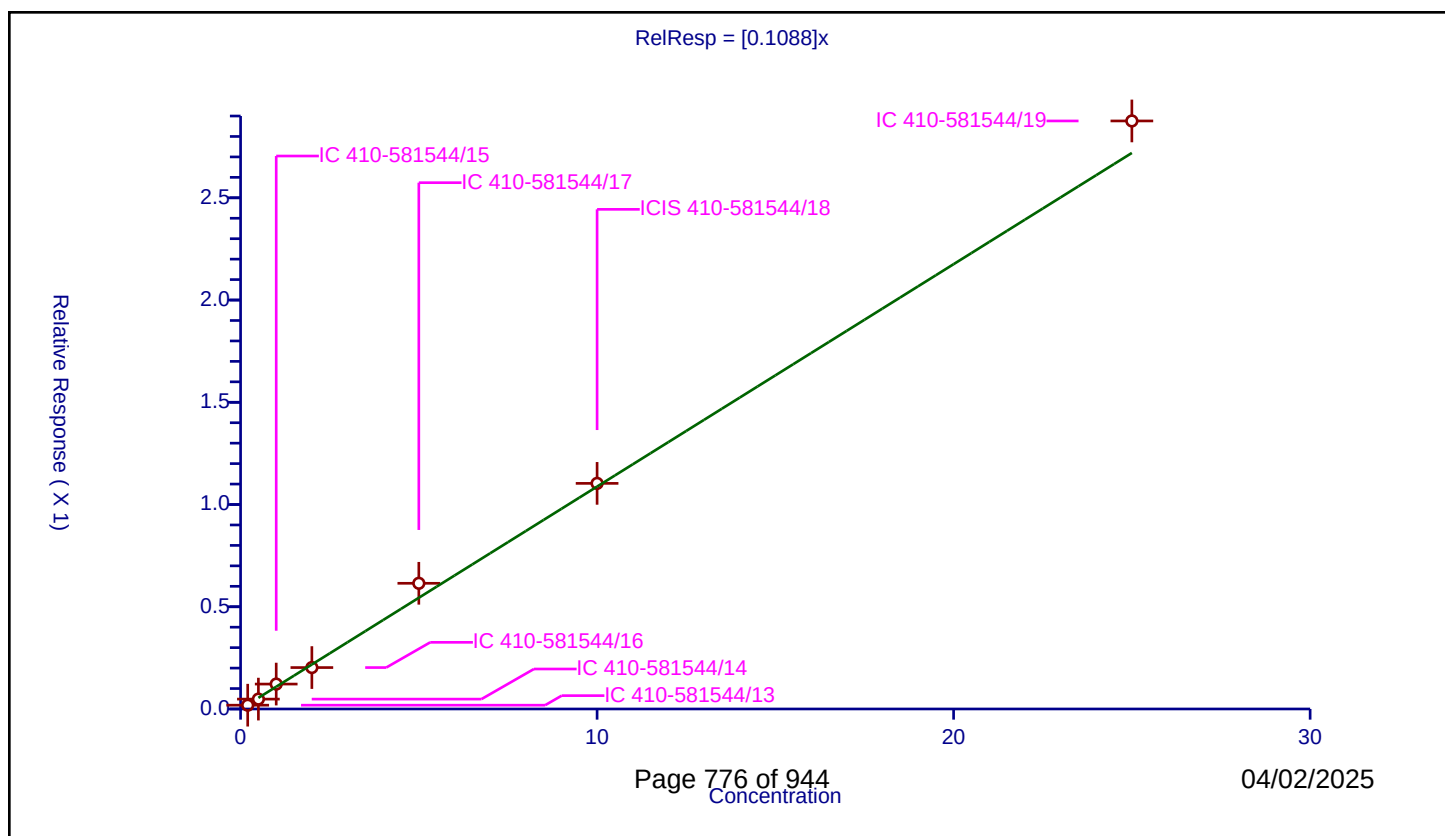
Curve Coefficients

Intercept: 0
Slope: 0.1088

Error Coefficients

Relative Standard Deviation: 11.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.018638	9.99966	2031304.0	0.093188	Y
2	IC 410-581544/14	0.5	0.048352	9.99966	2087335.0	0.096704	Y
3	IC 410-581544/15	1.0	0.121909	9.99966	1927527.0	0.121909	Y
4	IC 410-581544/16	2.0	0.202574	9.99966	2105483.0	0.101287	Y
5	IC 410-581544/17	5.0	0.614756	9.99966	1950593.0	0.122951	Y
6	ICIS 410-581544/18	10.0	1.103404	9.99966	2029850.0	0.11034	Y
7	IC 410-581544/19	25.0	2.875873	9.99966	2040629.0	0.115035	Y



Calibration

/ Tetrahydrofuran

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

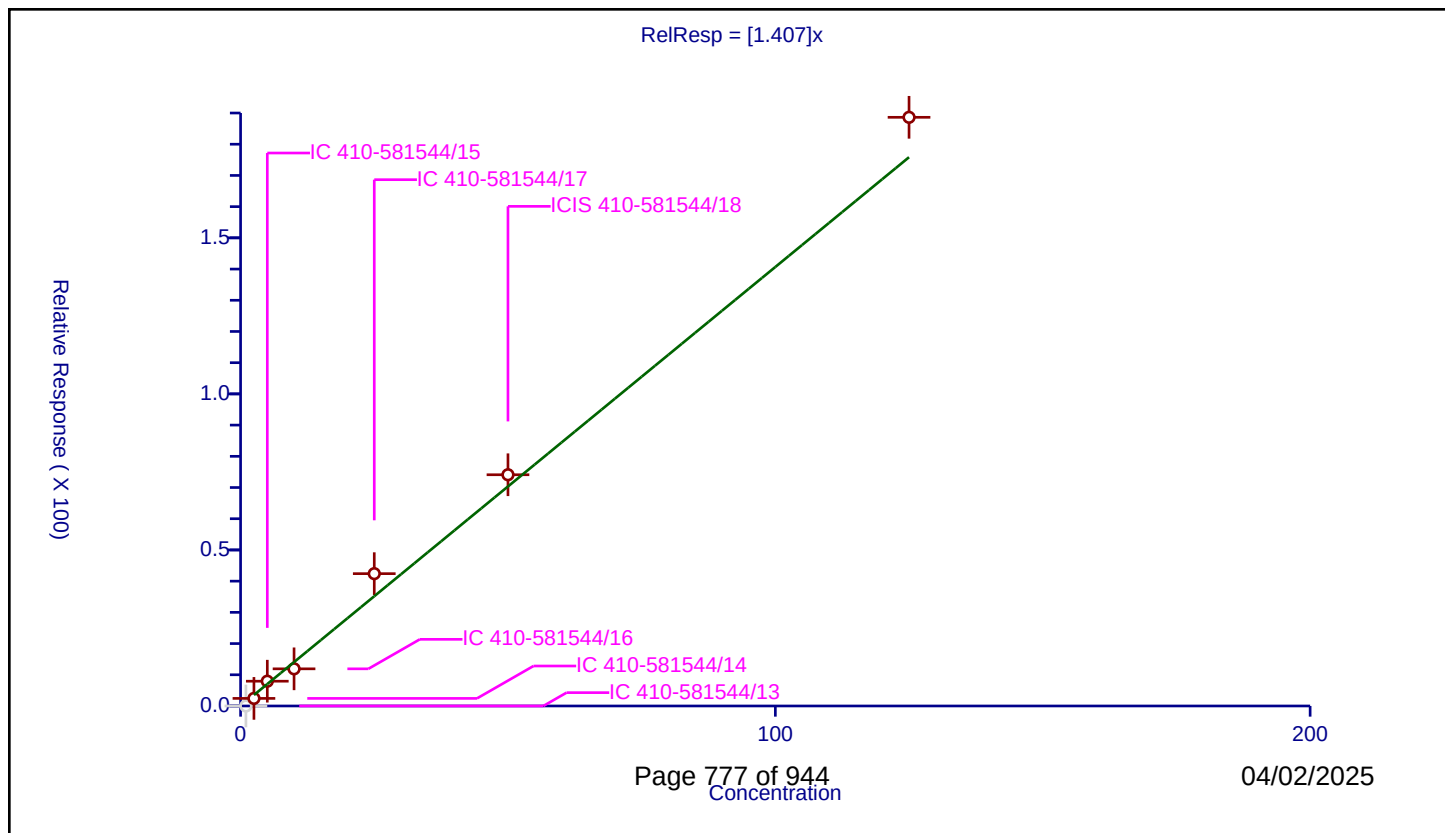
Curve Coefficients

Intercept: 0
 Slope: 1.407

Error Coefficients

Relative Standard Deviation: 19.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	1.0	0.0	49.9983	75156.0	0.0	N
2	IC 410-581544/14	2.5	2.433003	49.9983	78234.0	0.973201	Y
3	IC 410-581544/15	5.0	7.945914	49.9983	70537.0	1.589183	Y
4	IC 410-581544/16	10.0	11.909997	49.9983	82323.0	1.191	Y
5	IC 410-581544/17	25.0	42.402042	49.9983	72915.0	1.696082	Y
6	ICIS 410-581544/18	50.0	74.095819	49.9983	80518.0	1.481916	Y
7	IC 410-581544/19	125.0	188.624012	49.9983	85355.0	1.508992	Y



Calibration

/ Chloroform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

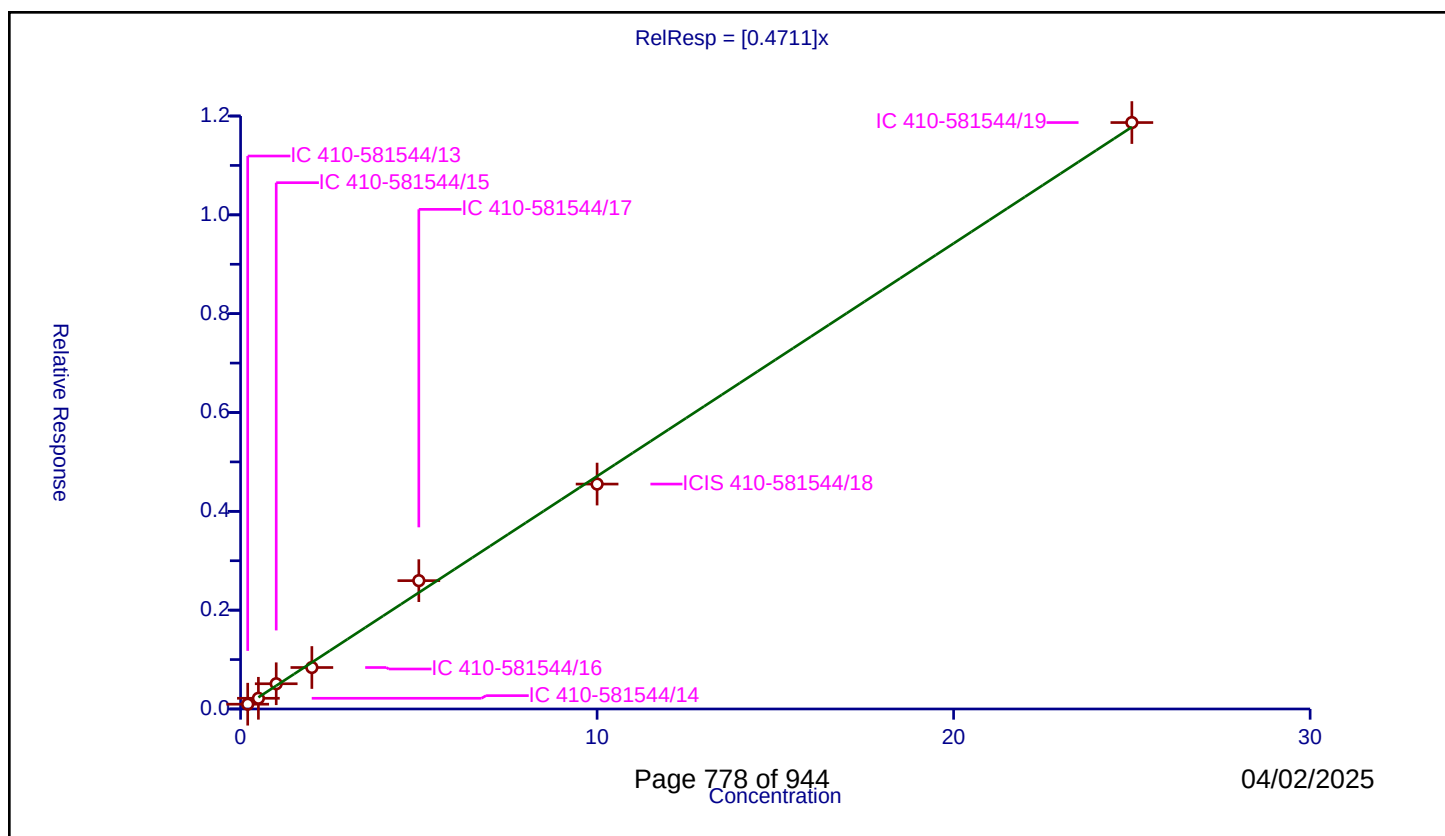
Curve Coefficients

Intercept: 0
Slope: 0.4711

Error Coefficients

Relative Standard Deviation: 8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.096969	9.99966	2031304.0	0.484844	Y
2	IC 410-581544/14	0.5	0.21646	9.99966	2087335.0	0.43292	Y
3	IC 410-581544/15	1.0	0.510715	9.99966	1927527.0	0.510715	Y
4	IC 410-581544/16	2.0	0.839541	9.99966	2105483.0	0.419771	Y
5	IC 410-581544/17	5.0	2.597132	9.99966	1950593.0	0.519426	Y
6	ICIS 410-581544/18	10.0	4.551758	9.99966	2029850.0	0.455176	Y
7	IC 410-581544/19	25.0	11.868045	9.99966	2040629.0	0.474722	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

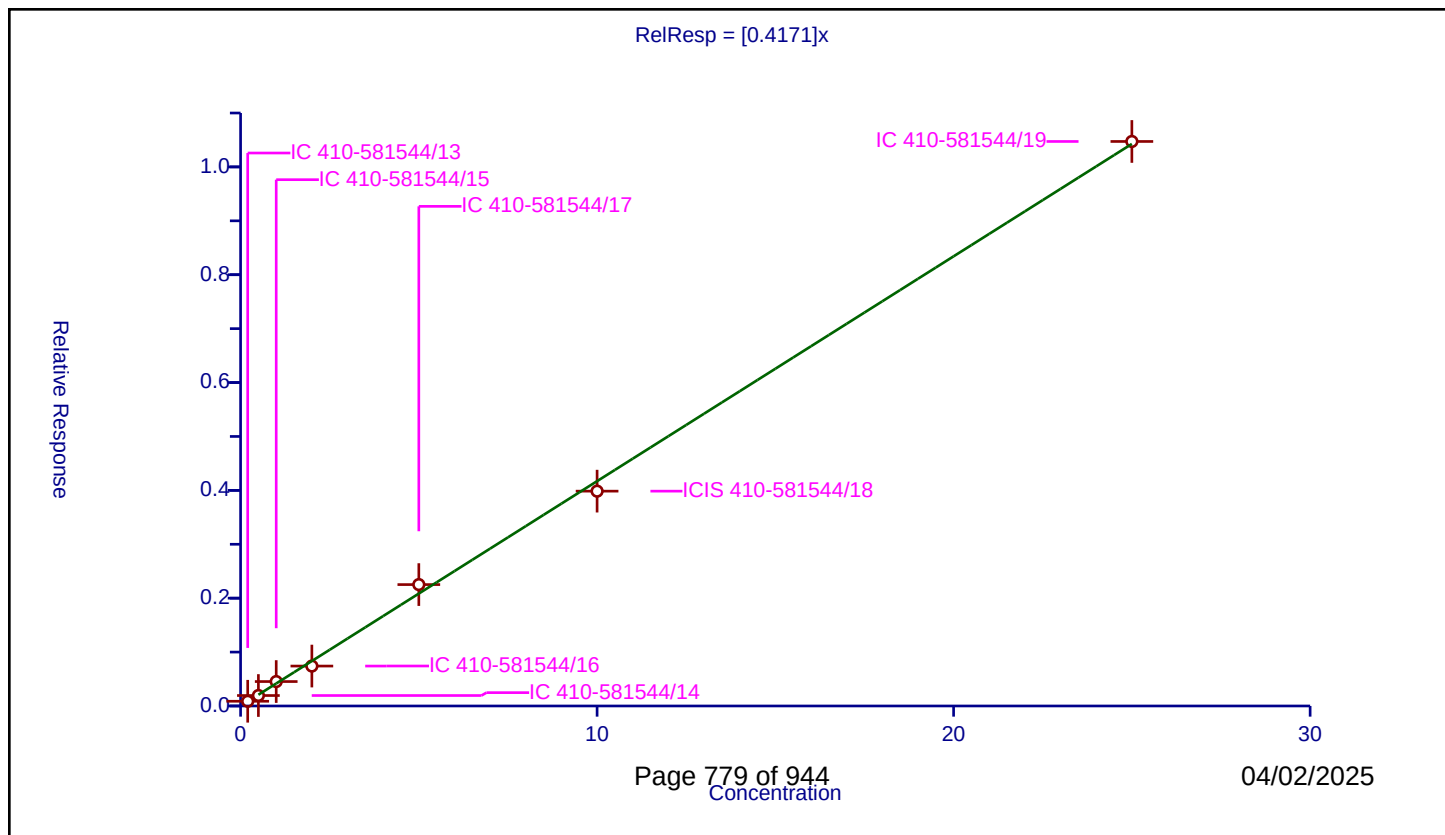
Curve Coefficients

Intercept: 0
Slope: 0.4171

Error Coefficients

Relative Standard Deviation: 7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.087906	9.99966	2031304.0	0.43953	Y
2	IC 410-581544/14	0.5	0.194088	9.99966	2087335.0	0.388176	Y
3	IC 410-581544/15	1.0	0.453488	9.99966	1927527.0	0.453488	Y
4	IC 410-581544/16	2.0	0.740935	9.99966	2105483.0	0.370468	Y
5	IC 410-581544/17	5.0	2.252105	9.99966	1950593.0	0.450421	Y
6	ICIS 410-581544/18	10.0	3.985262	9.99966	2029850.0	0.398526	Y
7	IC 410-581544/19	25.0	10.472361	9.99966	2040629.0	0.418894	Y



Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

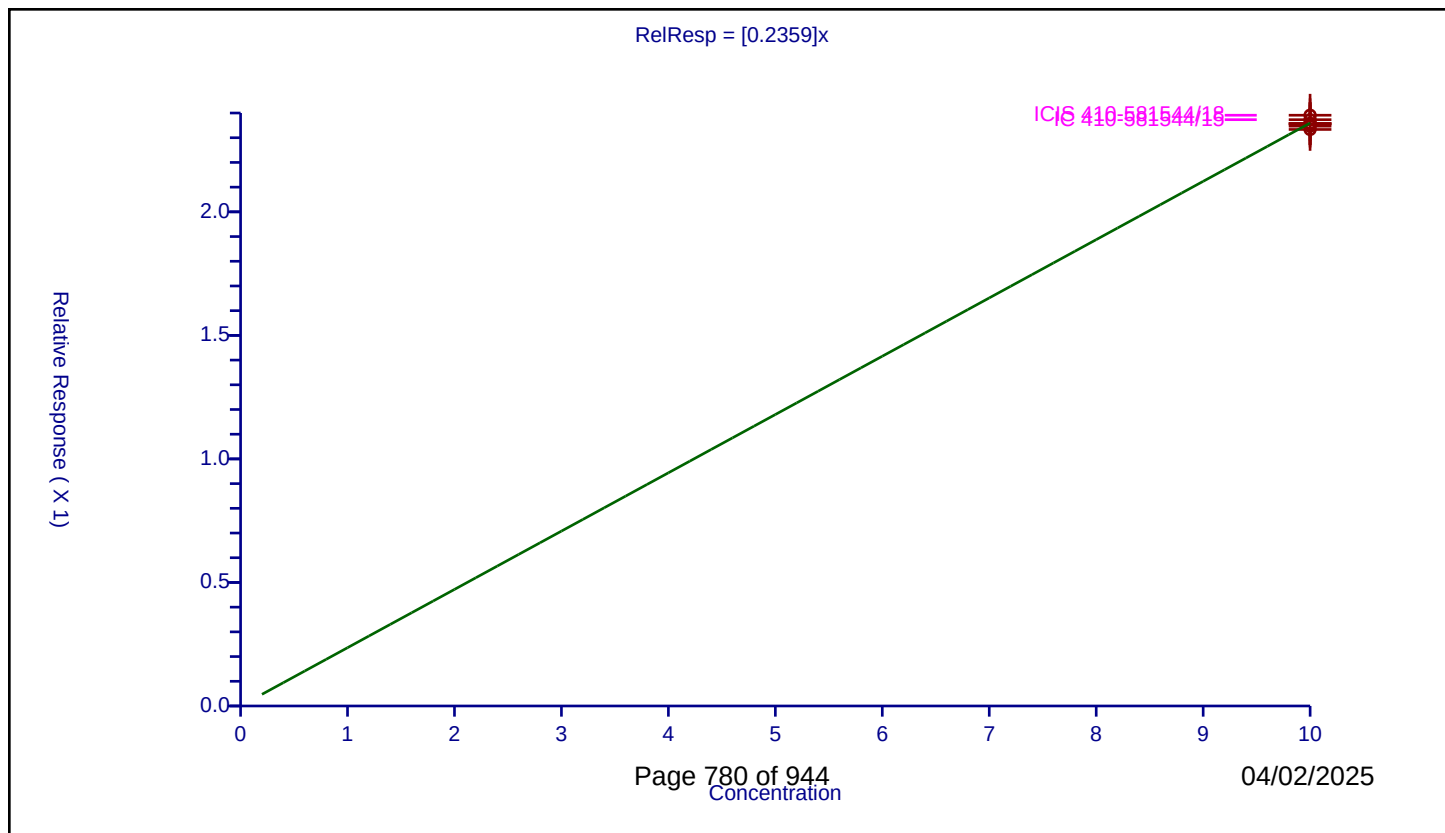
Curve Coefficients

Intercept: 0
Slope: 0.2359

Error Coefficients

Relative Standard Deviation: 0.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	9.99966	2.346817	9.99966	2031304.0	0.23469	Y
2	IC 410-581544/14	9.99966	2.333427	9.99966	2087335.0	0.233351	Y
3	IC 410-581544/15	9.99966	2.373027	9.99966	1927527.0	0.237311	Y
4	IC 410-581544/16	9.99966	2.357816	9.99966	2105483.0	0.23579	Y
5	IC 410-581544/17	9.99966	2.357172	9.99966	1950593.0	0.235725	Y
6	ICIS 410-581544/18	9.99966	2.391095	9.99966	2029850.0	0.239118	Y
7	IC 410-581544/19	9.99966	2.355596	9.99966	2040629.0	0.235568	Y



Calibration

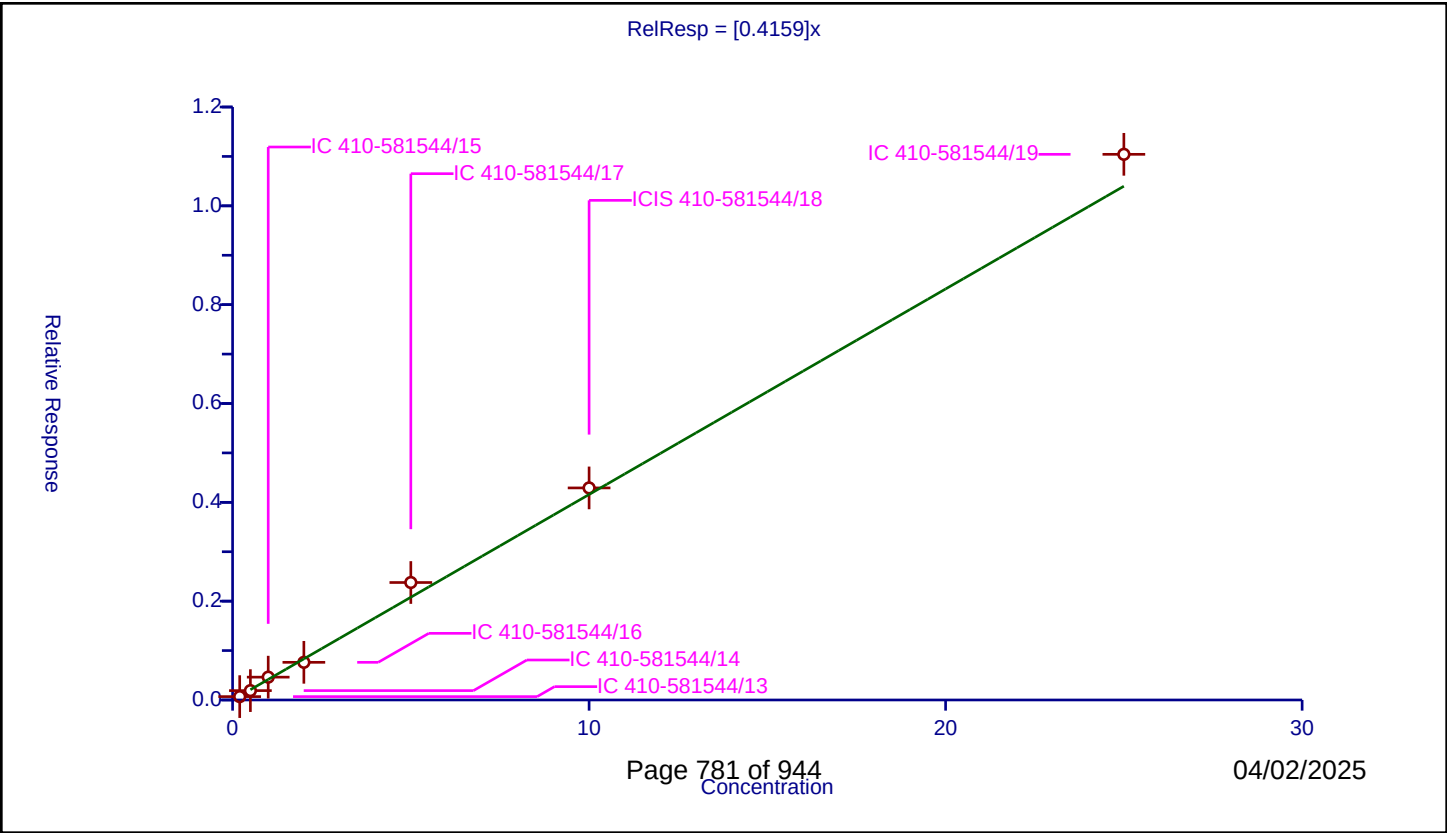
/ Cyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4159
Error Coefficients	

Relative Standard Deviation: 11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.068476	9.99966	2031304.0	0.342379	Y
2	IC 410-581544/14	0.5	0.189551	9.99966	2087335.0	0.379102	Y
3	IC 410-581544/15	1.0	0.462276	9.99966	1927527.0	0.462276	Y
4	IC 410-581544/16	2.0	0.762246	9.99966	2105483.0	0.381123	Y
5	IC 410-581544/17	5.0	2.377222	9.99966	1950593.0	0.475444	Y
6	ICIS 410-581544/18	10.0	4.291817	9.99966	2029850.0	0.429182	Y
7	IC 410-581544/19	25.0	11.042396	9.99966	2040629.0	0.441696	Y



Calibration

/ Carbon tetrachloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

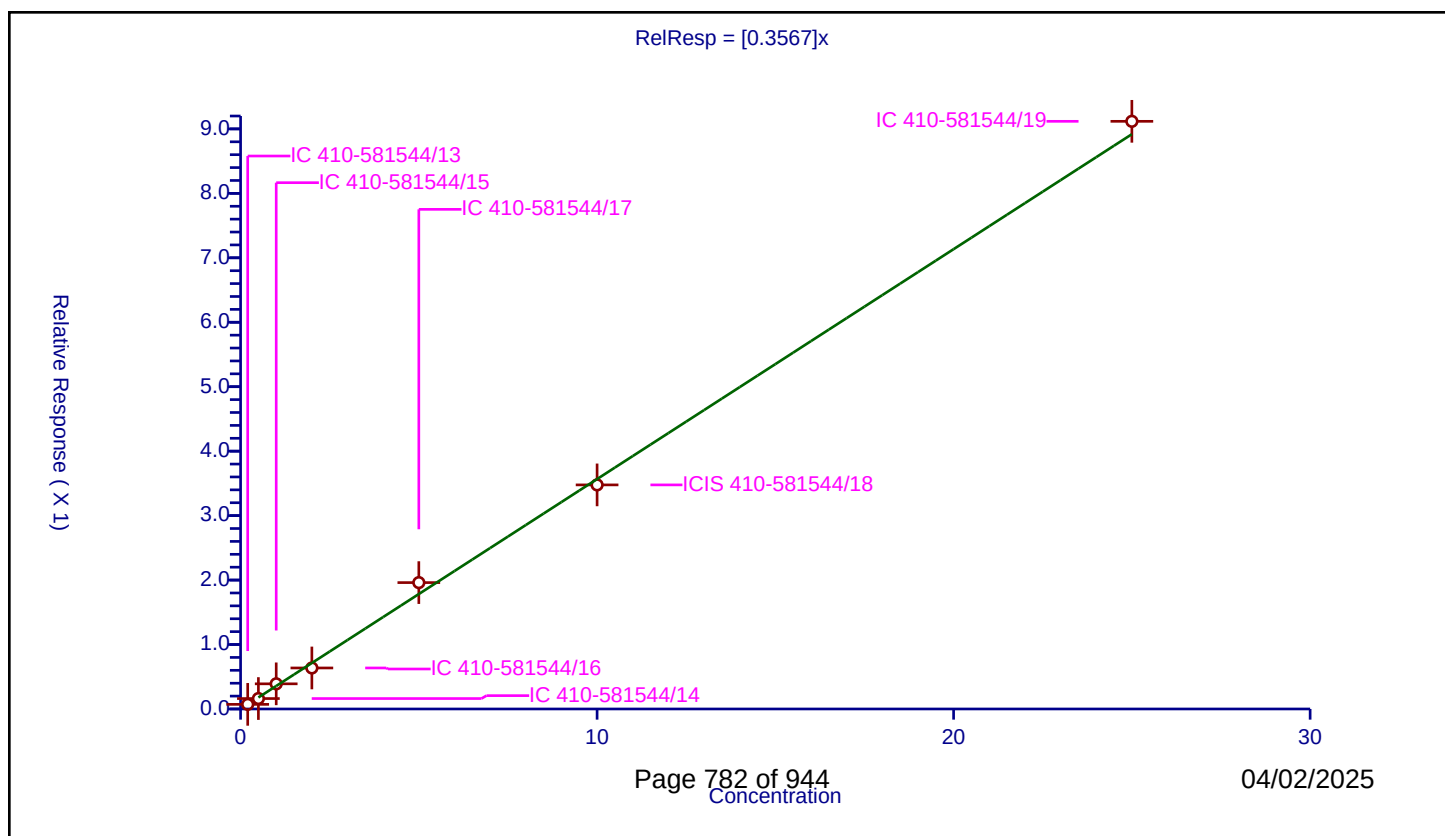
Curve Coefficients

Intercept: 0
Slope: 0.3567

Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.071981	9.99966	2031304.0	0.359904	Y
2	IC 410-581544/14	0.5	0.161952	9.99966	2087335.0	0.323904	Y
3	IC 410-581544/15	1.0	0.390477	9.99966	1927527.0	0.390477	Y
4	IC 410-581544/16	2.0	0.63636	9.99966	2105483.0	0.31818	Y
5	IC 410-581544/17	5.0	1.960778	9.99966	1950593.0	0.392156	Y
6	ICIS 410-581544/18	10.0	3.476942	9.99966	2029850.0	0.347694	Y
7	IC 410-581544/19	25.0	9.117732	9.99966	2040629.0	0.364709	Y



Calibration

/ 1,1-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

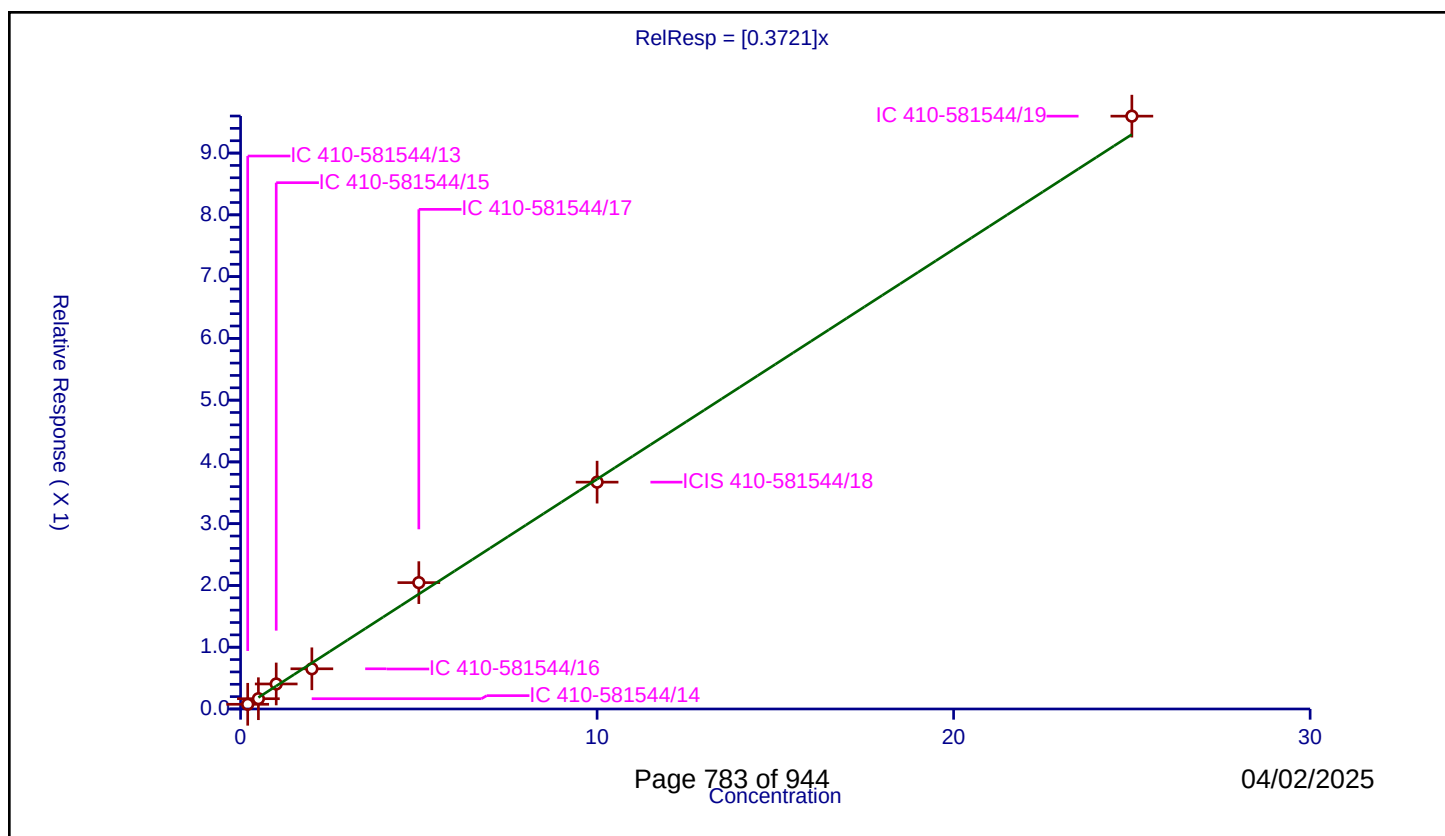
Curve Coefficients

Intercept: 0
Slope: 0.3721

Error Coefficients

Relative Standard Deviation: 8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.076072	9.99966	2031304.0	0.380358	Y
2	IC 410-581544/14	0.5	0.16657	9.99966	2087335.0	0.333141	Y
3	IC 410-581544/15	1.0	0.405288	9.99966	1927527.0	0.405288	Y
4	IC 410-581544/16	2.0	0.65085	9.99966	2105483.0	0.325425	Y
5	IC 410-581544/17	5.0	2.045672	9.99966	1950593.0	0.409134	Y
6	ICIS 410-581544/18	10.0	3.672629	9.99966	2029850.0	0.367263	Y
7	IC 410-581544/19	25.0	9.597817	9.99966	2040629.0	0.383913	Y



Calibration

/ Isobutyl alcohol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

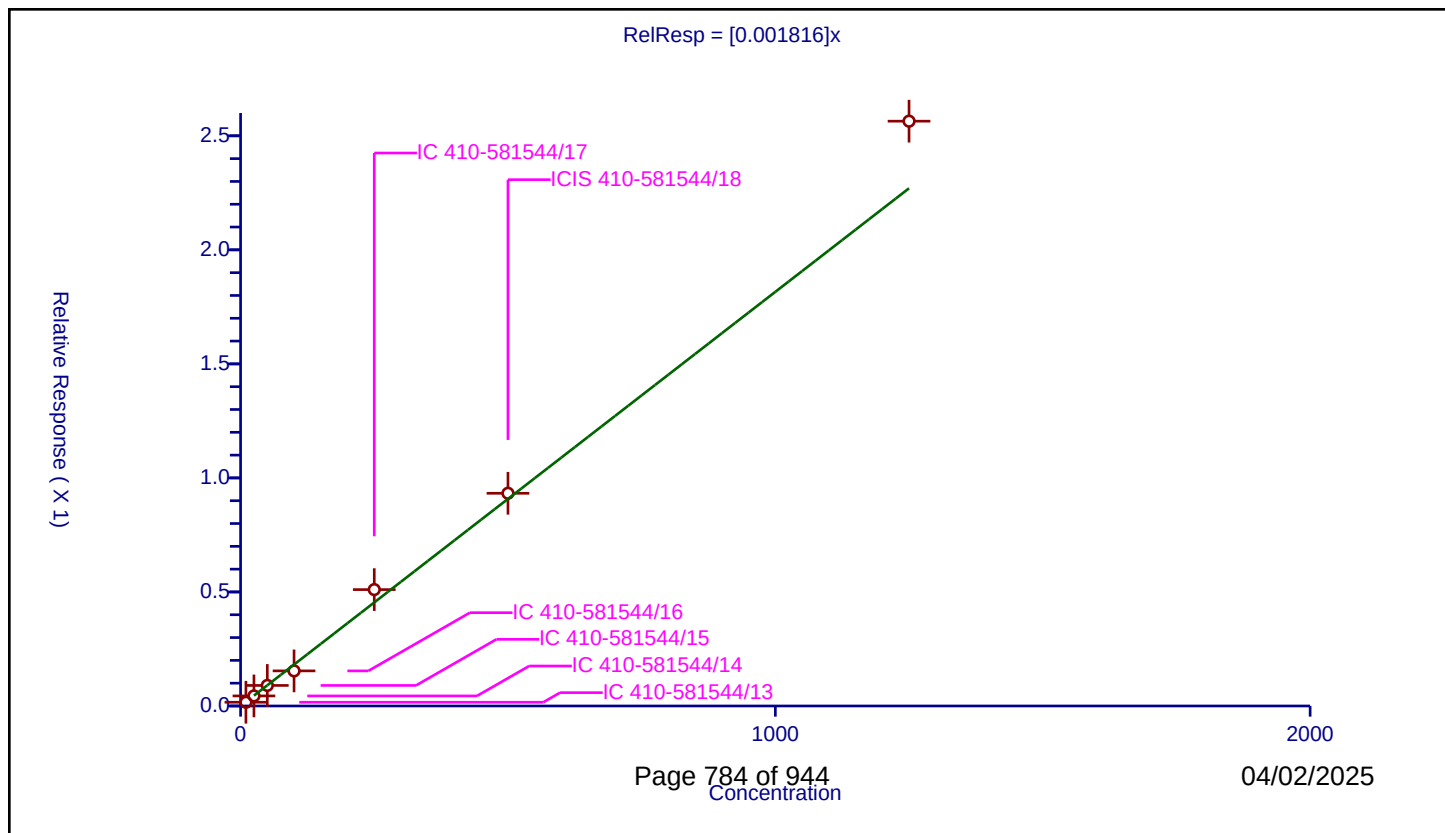
Curve Coefficients

Intercept: 0
 Slope: 0.001816

Error Coefficients

Relative Standard Deviation: 10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	10.0	0.016477	9.99966	2031304.0	0.001648	Y
2	IC 410-581544/14	25.0	0.044136	9.99966	2087335.0	0.001765	Y
3	IC 410-581544/15	50.0	0.090097	9.99966	1927527.0	0.001802	Y
4	IC 410-581544/16	100.0	0.153883	9.99966	2105483.0	0.001539	Y
5	IC 410-581544/17	250.0	0.510289	9.99966	1950593.0	0.002041	Y
6	ICIS 410-581544/18	500.0	0.932687	9.99966	2029850.0	0.001865	Y
7	IC 410-581544/19	1250.0	2.564269	9.99966	2040629.0	0.002051	Y



Calibration

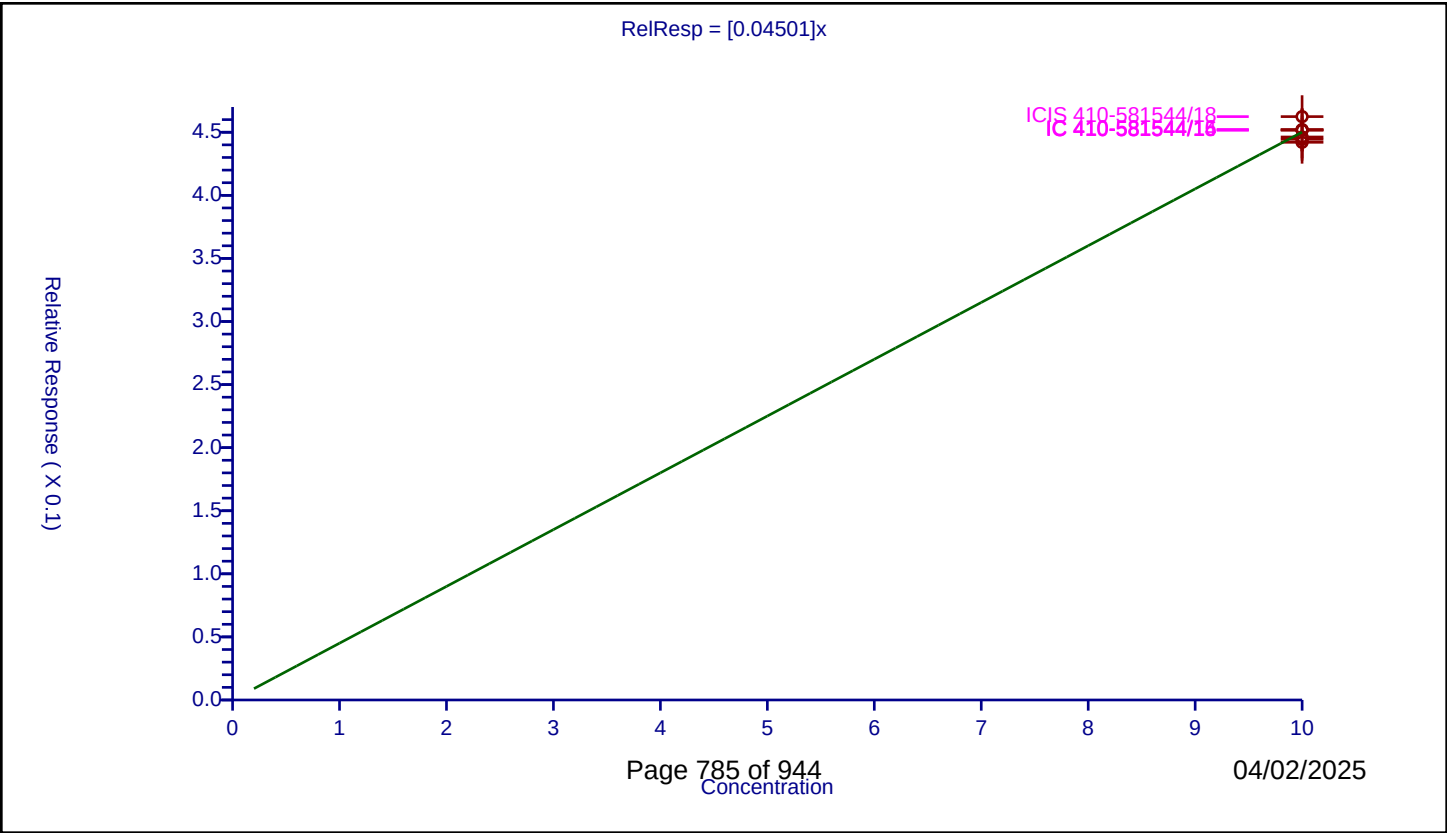
/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.04501
Error Coefficients	

Relative Standard Deviation: 1.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	9.99966	0.444404	9.99966	2031304.0	0.044442	Y
2	IC 410-581544/14	9.99966	0.451752	9.99966	2087335.0	0.045177	Y
3	IC 410-581544/15	9.99966	0.451734	9.99966	1927527.0	0.045175	Y
4	IC 410-581544/16	9.99966	0.452114	9.99966	2105483.0	0.045213	Y
5	IC 410-581544/17	9.99966	0.446249	9.99966	1950593.0	0.044626	Y
6	ICIS 410-581544/18	9.99966	0.462388	9.99966	2029850.0	0.04624	Y
7	IC 410-581544/19	9.99966	0.44203	9.99966	2040629.0	0.044205	Y



Calibration

/ Benzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

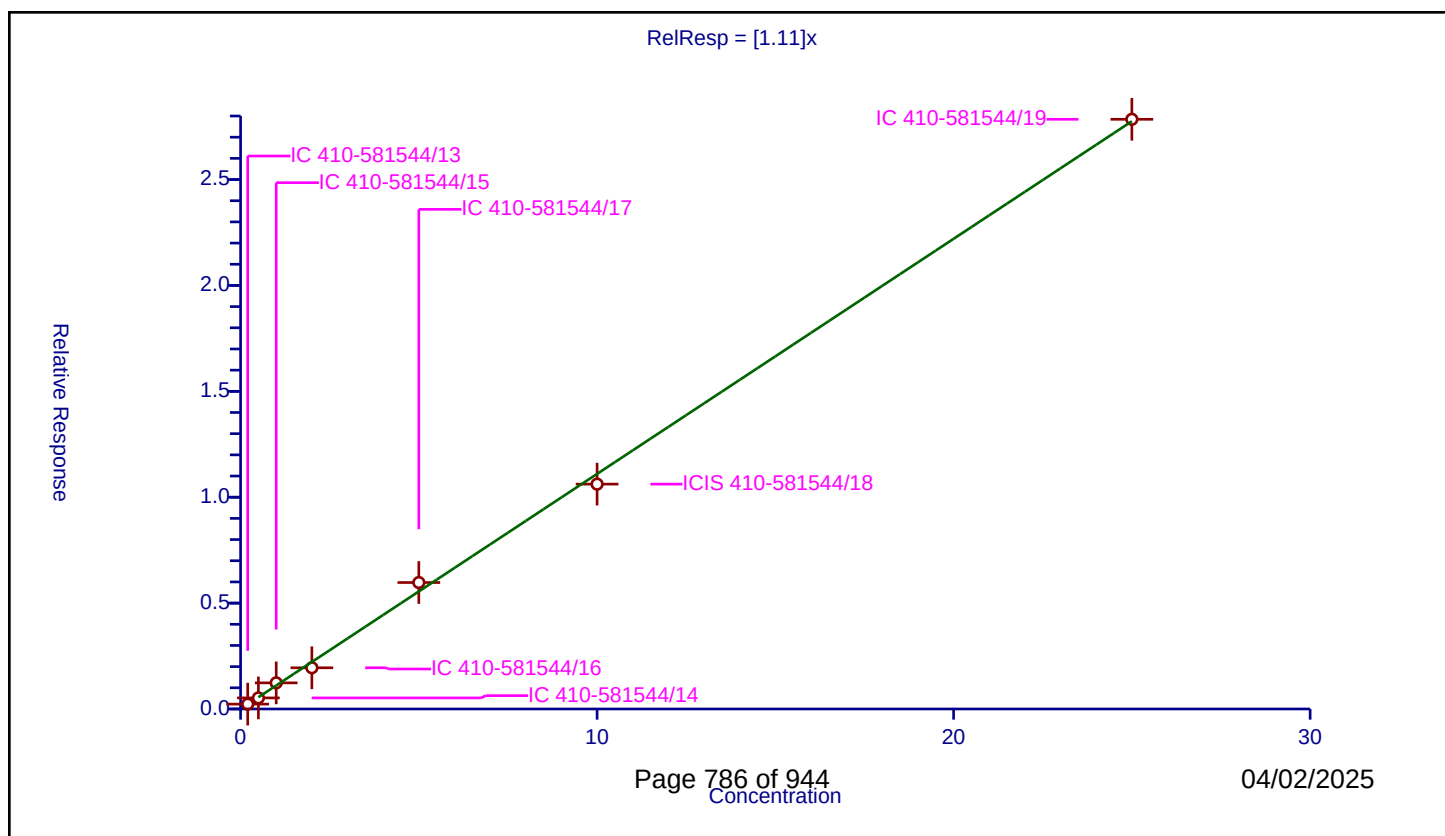
Curve Coefficients

Intercept: 0
Slope: 1.11

Error Coefficients

Relative Standard Deviation: 8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.22947	9.99966	2031304.0	1.147352	Y
2	IC 410-581544/14	0.5	0.523156	9.99966	2087335.0	1.046313	Y
3	IC 410-581544/15	1.0	1.233974	9.99966	1927527.0	1.233974	Y
4	IC 410-581544/16	2.0	1.946091	9.99966	2105483.0	0.973045	Y
5	IC 410-581544/17	5.0	5.971396	9.99966	1950593.0	1.194279	Y
6	ICIS 410-581544/18	10.0	10.617763	9.99966	2029850.0	1.061776	Y
7	IC 410-581544/19	25.0	27.844825	9.99966	2040629.0	1.113793	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

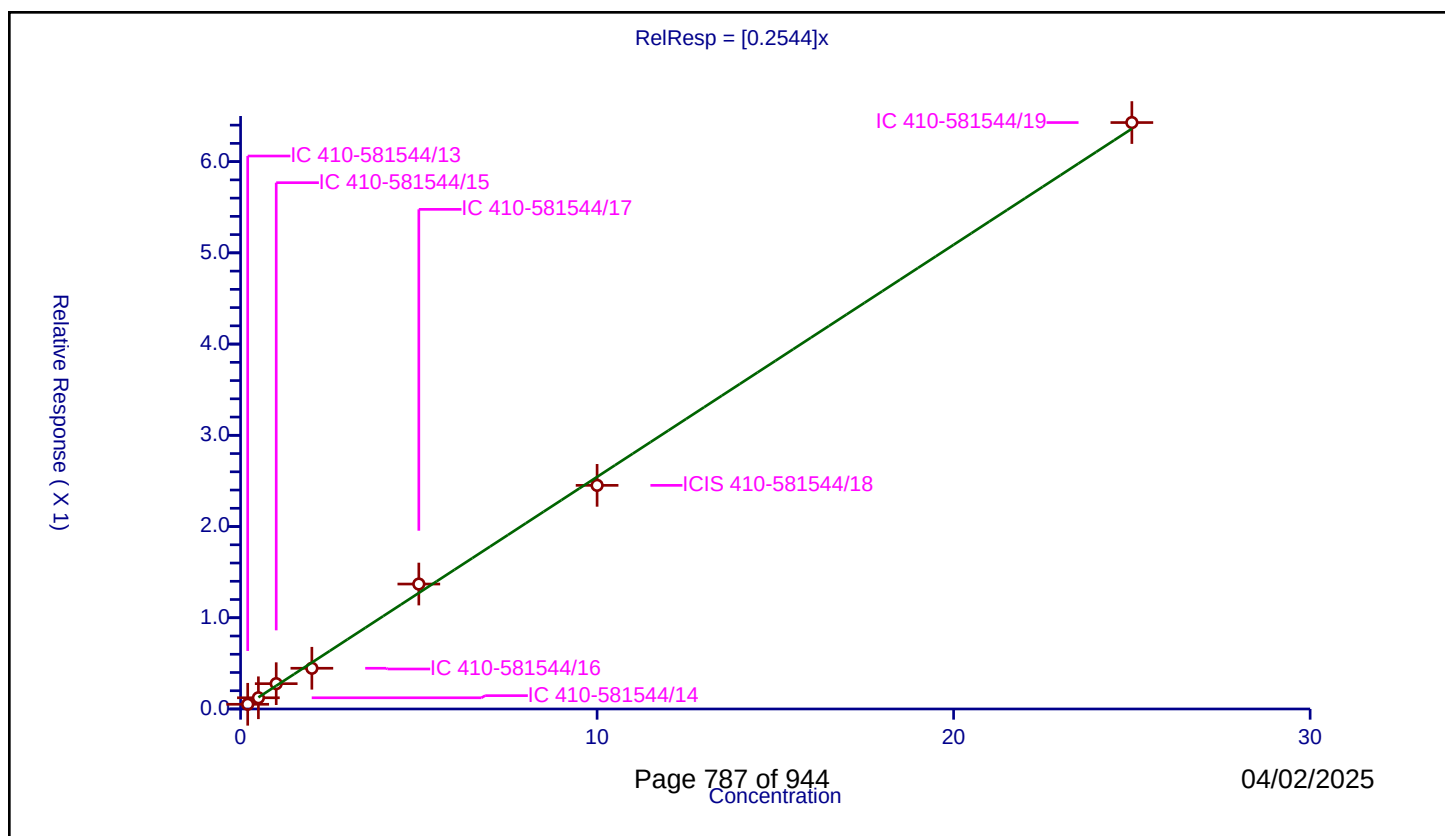
Curve Coefficients

Intercept: 0
Slope: 0.2544

Error Coefficients

Relative Standard Deviation: 7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.051615	9.99966	2031304.0	0.258077	Y
2	IC 410-581544/14	0.5	0.122865	9.99966	2087335.0	0.245731	Y
3	IC 410-581544/15	1.0	0.277626	9.99966	1927527.0	0.277626	Y
4	IC 410-581544/16	2.0	0.446638	9.99966	2105483.0	0.223319	Y
5	IC 410-581544/17	5.0	1.36965	9.99966	1950593.0	0.27393	Y
6	ICIS 410-581544/18	10.0	2.451566	9.99966	2029850.0	0.245157	Y
7	IC 410-581544/19	25.0	6.428407	9.99966	2040629.0	0.257136	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

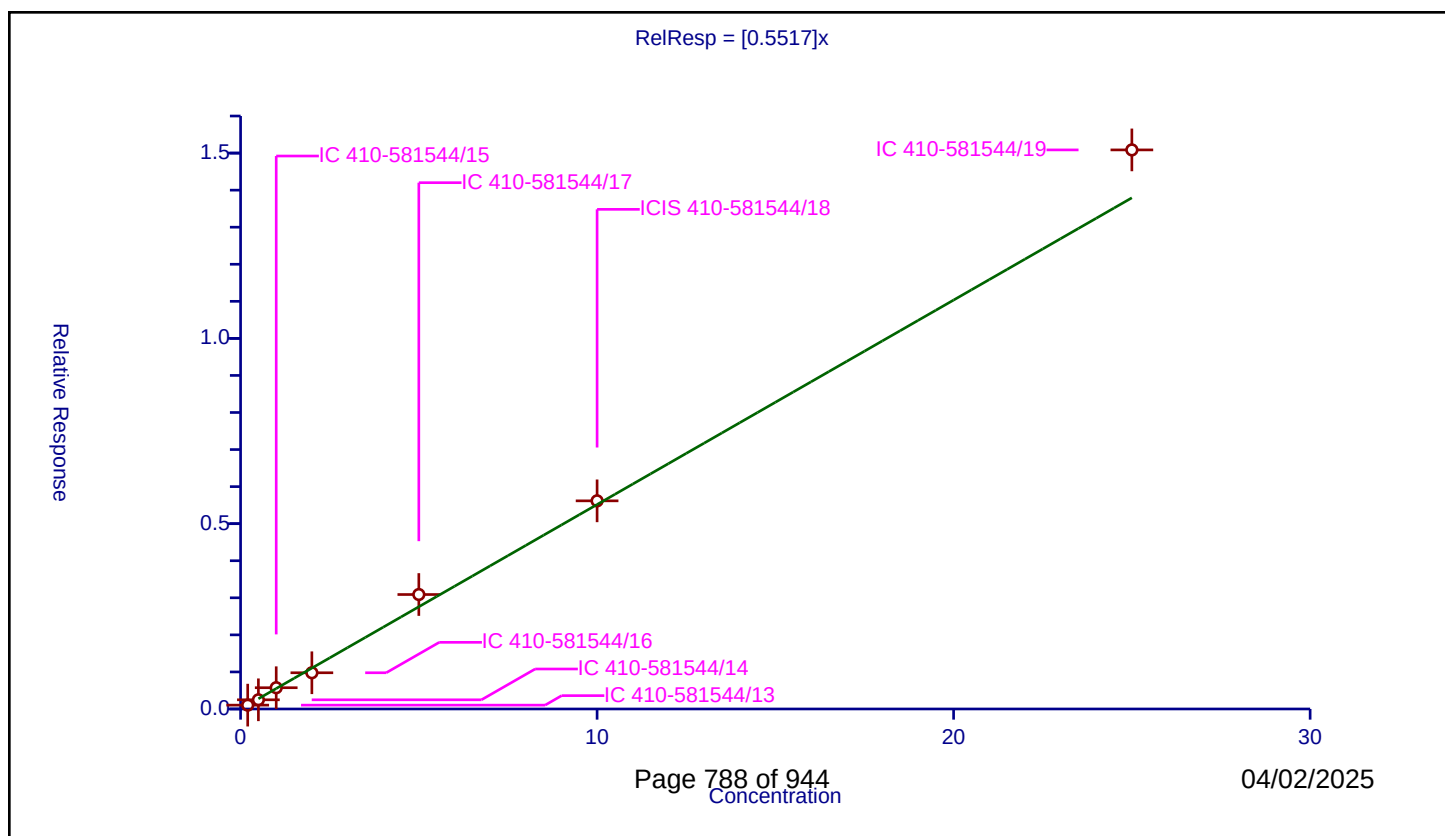
Curve Coefficients

Intercept: 0
Slope: 0.5517

Error Coefficients

Relative Standard Deviation: 9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.104181	9.99966	2031304.0	0.520904	Y
2	IC 410-581544/14	0.5	0.247685	9.99966	2087335.0	0.495371	Y
3	IC 410-581544/15	1.0	0.573908	9.99966	1927527.0	0.573908	Y
4	IC 410-581544/16	2.0	0.977823	9.99966	2105483.0	0.488912	Y
5	IC 410-581544/17	5.0	3.088766	9.99966	1950593.0	0.617753	Y
6	ICIS 410-581544/18	10.0	5.616209	9.99966	2029850.0	0.561621	Y
7	IC 410-581544/19	25.0	15.085537	9.99966	2040629.0	0.603421	Y



Calibration

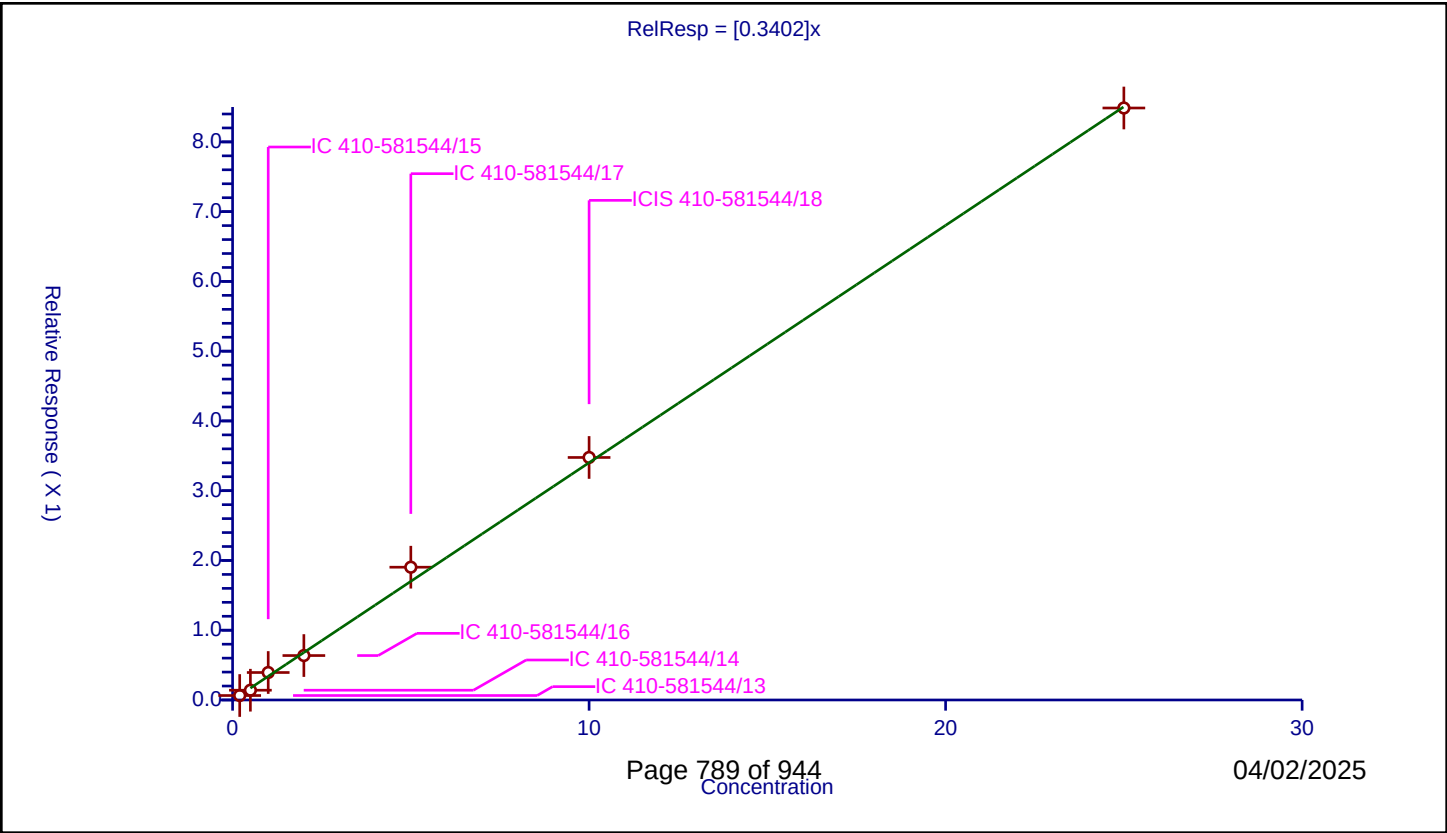
/ n-Heptane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3402
Error Coefficients	

Relative Standard Deviation: 11.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.064183	9.99966	2031304.0	0.320916	Y
2	IC 410-581544/14	0.5	0.140116	9.99966	2087335.0	0.280233	Y
3	IC 410-581544/15	1.0	0.393818	9.99966	1927527.0	0.393818	Y
4	IC 410-581544/16	2.0	0.637015	9.99966	2105483.0	0.318508	Y
5	IC 410-581544/17	5.0	1.903469	9.99966	1950593.0	0.380694	Y
6	ICIS 410-581544/18	10.0	3.476296	9.99966	2029850.0	0.34763	Y
7	IC 410-581544/19	25.0	8.485928	9.99966	2040629.0	0.339437	Y



Calibration

/ n-Butanol

Curve Type: Quadratic
 Weighting: None
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

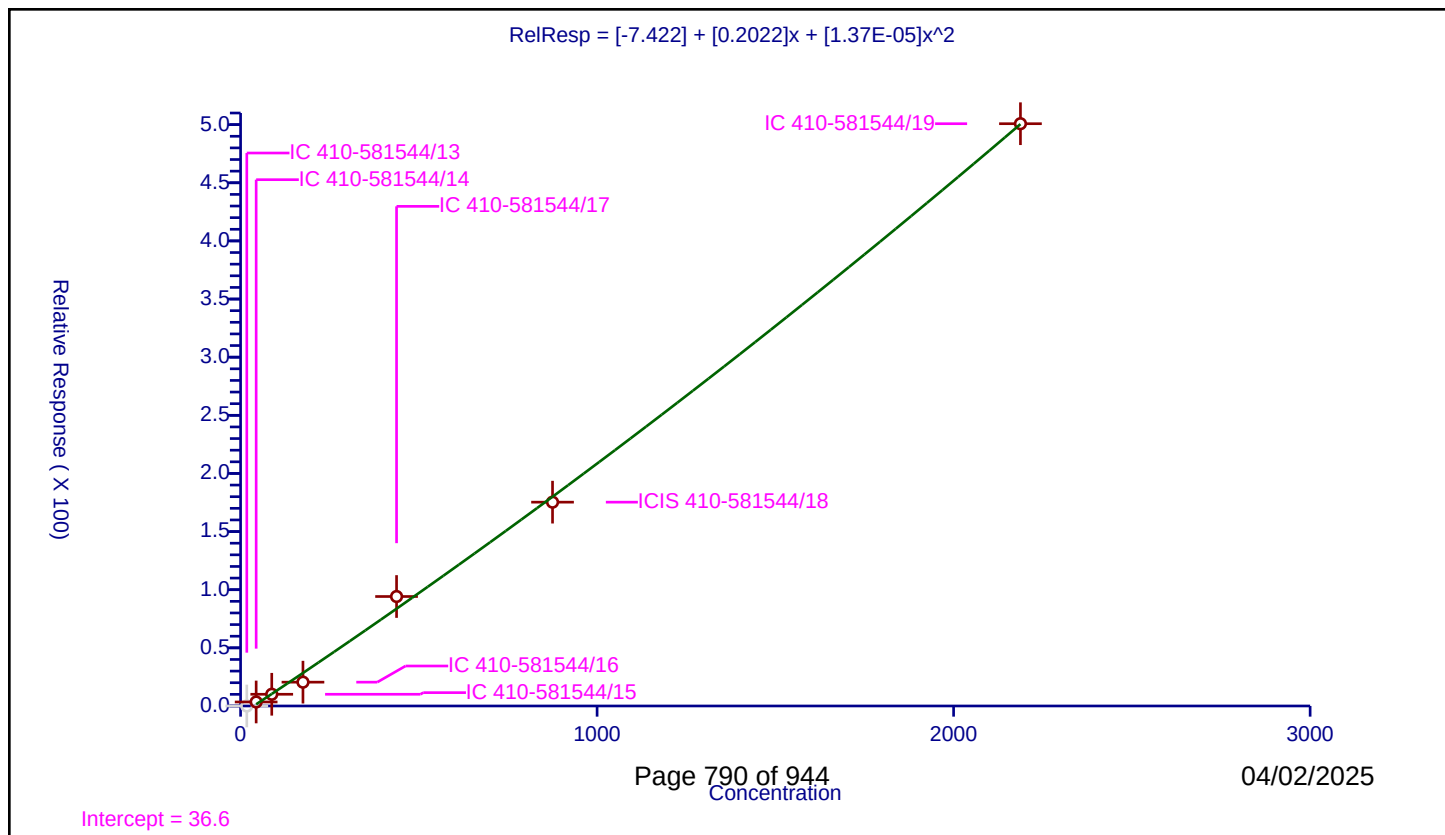
Curve Coefficients

Intercept: -7.422
 Slope: 0.2022
 Second Order: 1.37E-05

Error Coefficients

Relative Standard Deviation: 19.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	17.5	0.0	49.9983	75156.0	0.0	N
2	IC 410-581544/14	43.75	3.451707	49.9983	78234.0	0.078896	Y
3	IC 410-581544/15	87.5	10.083726	49.9983	70537.0	0.115243	Y
4	IC 410-581544/16	175.0	20.489324	49.9983	82323.0	0.117082	Y
5	IC 410-581544/17	437.5	94.157122	49.9983	72915.0	0.215216	Y
6	ICIS 410-581544/18	875.0	175.296457	49.9983	80518.0	0.200339	Y
7	IC 410-581544/19	2187.5	500.810691	49.9983	85355.0	0.228942	Y



Calibration

/ Trichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

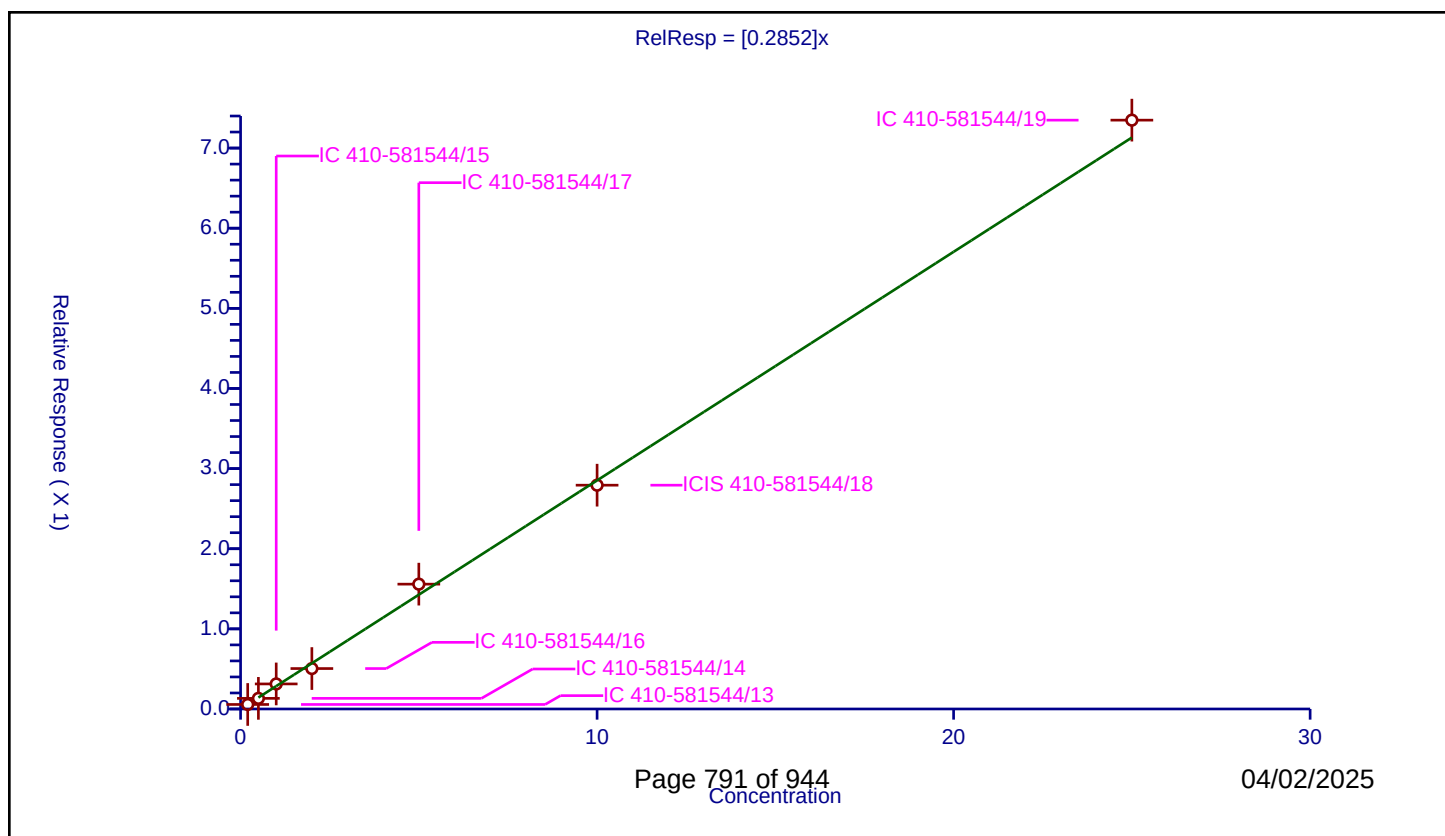
Curve Coefficients

Intercept: 0
Slope: 0.2852

Error Coefficients

Relative Standard Deviation: 7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.056366	9.99966	2031304.0	0.281829	Y
2	IC 410-581544/14	0.5	0.13261	9.99966	2087335.0	0.265219	Y
3	IC 410-581544/15	1.0	0.312545	9.99966	1927527.0	0.312545	Y
4	IC 410-581544/16	2.0	0.504703	9.99966	2105483.0	0.252352	Y
5	IC 410-581544/17	5.0	1.557914	9.99966	1950593.0	0.311583	Y
6	ICIS 410-581544/18	10.0	2.79285	9.99966	2029850.0	0.279285	Y
7	IC 410-581544/19	25.0	7.348421	9.99966	2040629.0	0.293937	Y



Calibration

/ Methylcyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

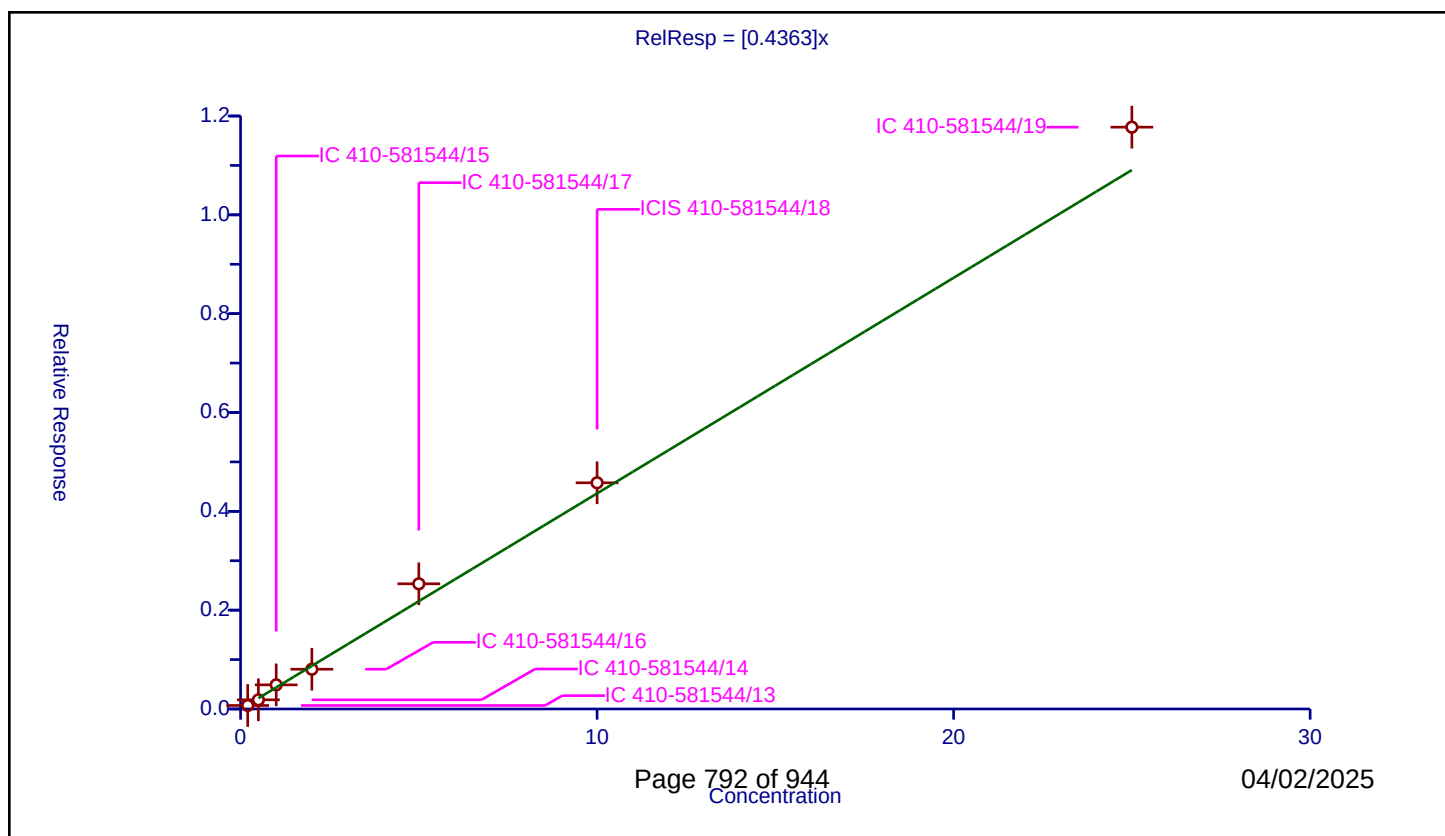
Curve Coefficients

Intercept: 0
Slope: 0.4363

Error Coefficients

Relative Standard Deviation: 13.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.071139	9.99966	2031304.0	0.355695	Y
2	IC 410-581544/14	0.5	0.186087	9.99966	2087335.0	0.372175	Y
3	IC 410-581544/15	1.0	0.488111	9.99966	1927527.0	0.488111	Y
4	IC 410-581544/16	2.0	0.804805	9.99966	2105483.0	0.402402	Y
5	IC 410-581544/17	5.0	2.533482	9.99966	1950593.0	0.506696	Y
6	ICIS 410-581544/18	10.0	4.577621	9.99966	2029850.0	0.457762	Y
7	IC 410-581544/19	25.0	11.774278	9.99966	2040629.0	0.470971	Y



Calibration

/ 1,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

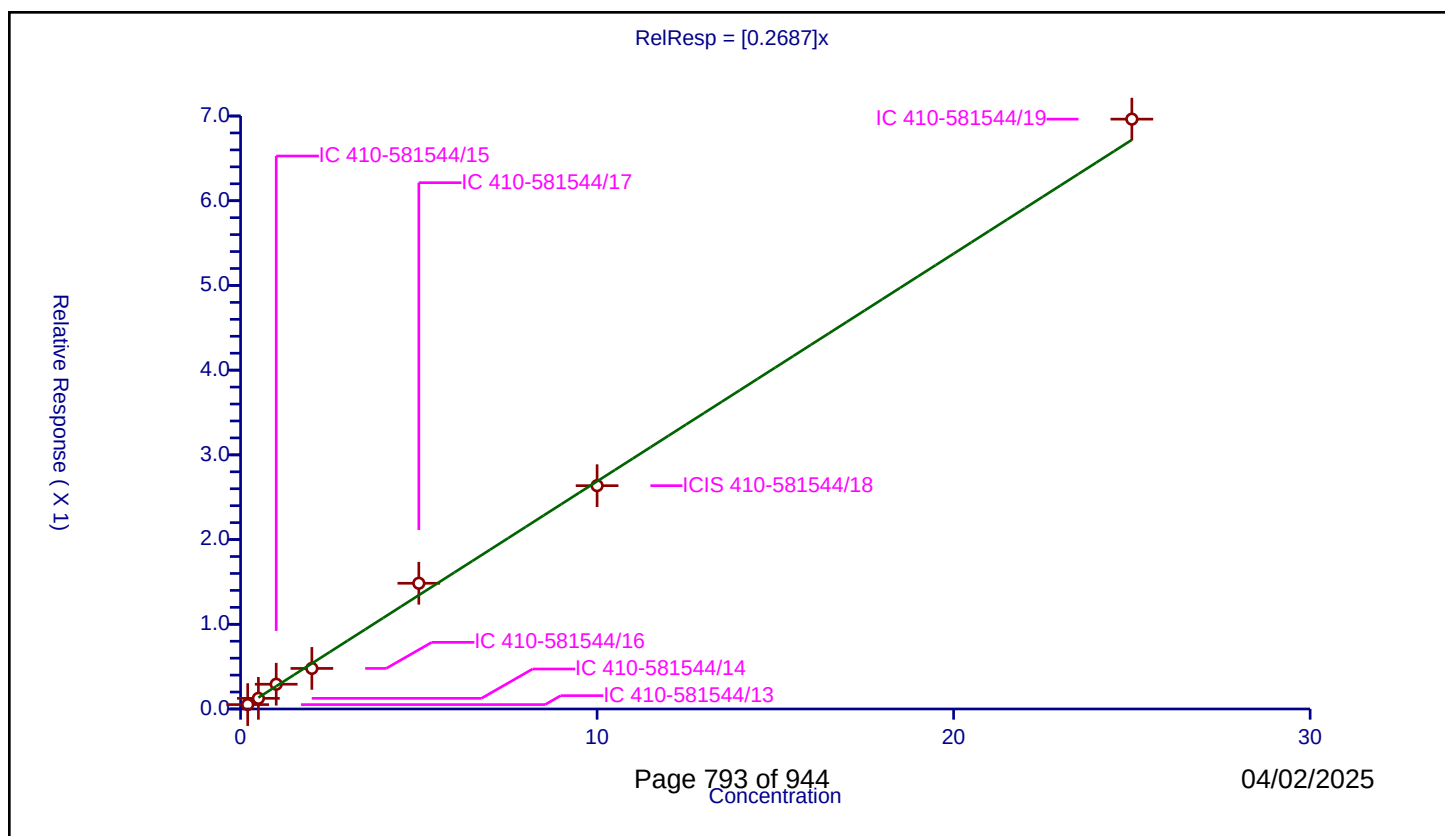
Curve Coefficients

Intercept: 0
Slope: 0.2687

Error Coefficients

Relative Standard Deviation: 7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.051802	9.99966	2031304.0	0.259012	Y
2	IC 410-581544/14	0.5	0.125711	9.99966	2087335.0	0.251422	Y
3	IC 410-581544/15	1.0	0.292323	9.99966	1927527.0	0.292323	Y
4	IC 410-581544/16	2.0	0.478819	9.99966	2105483.0	0.23941	Y
5	IC 410-581544/17	5.0	1.484221	9.99966	1950593.0	0.296844	Y
6	ICIS 410-581544/18	10.0	2.636401	9.99966	2029850.0	0.26364	Y
7	IC 410-581544/19	25.0	6.96318	9.99966	2040629.0	0.278527	Y



Calibration

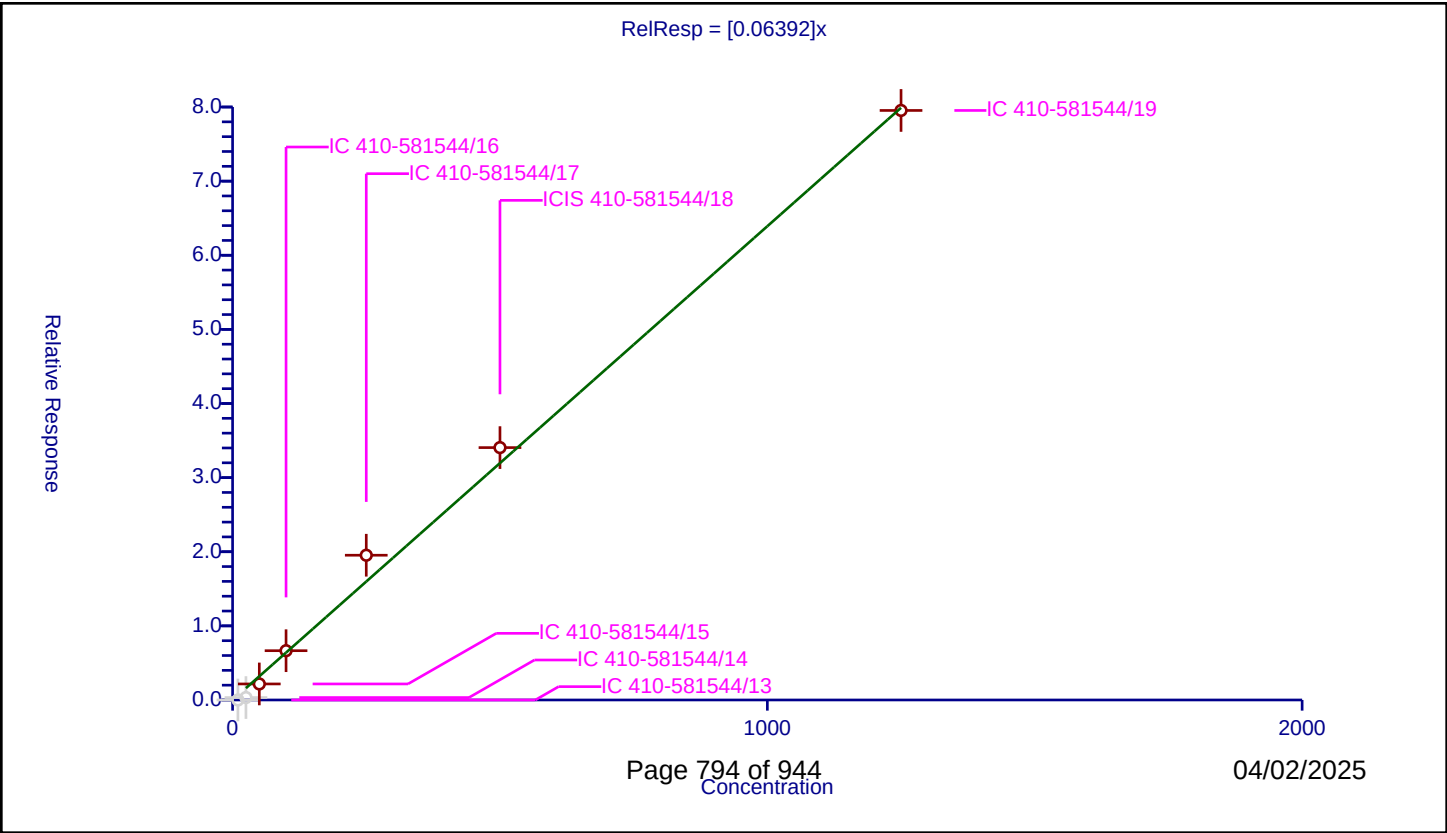
/ 1,4-Dioxane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06392
Error Coefficients	

Relative Standard Deviation: 20.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	10.0	0.0	49.9983	75156.0	0.0	N
2	IC 410-581544/14	25.0	0.330408	49.9983	78234.0	0.013216	N
3	IC 410-581544/15	50.0	2.162621	49.9983	70537.0	0.043252	Y
4	IC 410-581544/16	100.0	6.649191	49.9983	82323.0	0.066492	Y
5	IC 410-581544/17	250.0	19.529611	49.9983	72915.0	0.078118	Y
6	ICIS 410-581544/18	500.0	34.048993	49.9983	80518.0	0.068098	Y
7	IC 410-581544/19	1250.0	79.535694	49.9983	85355.0	0.063629	Y



Calibration

/ Dibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

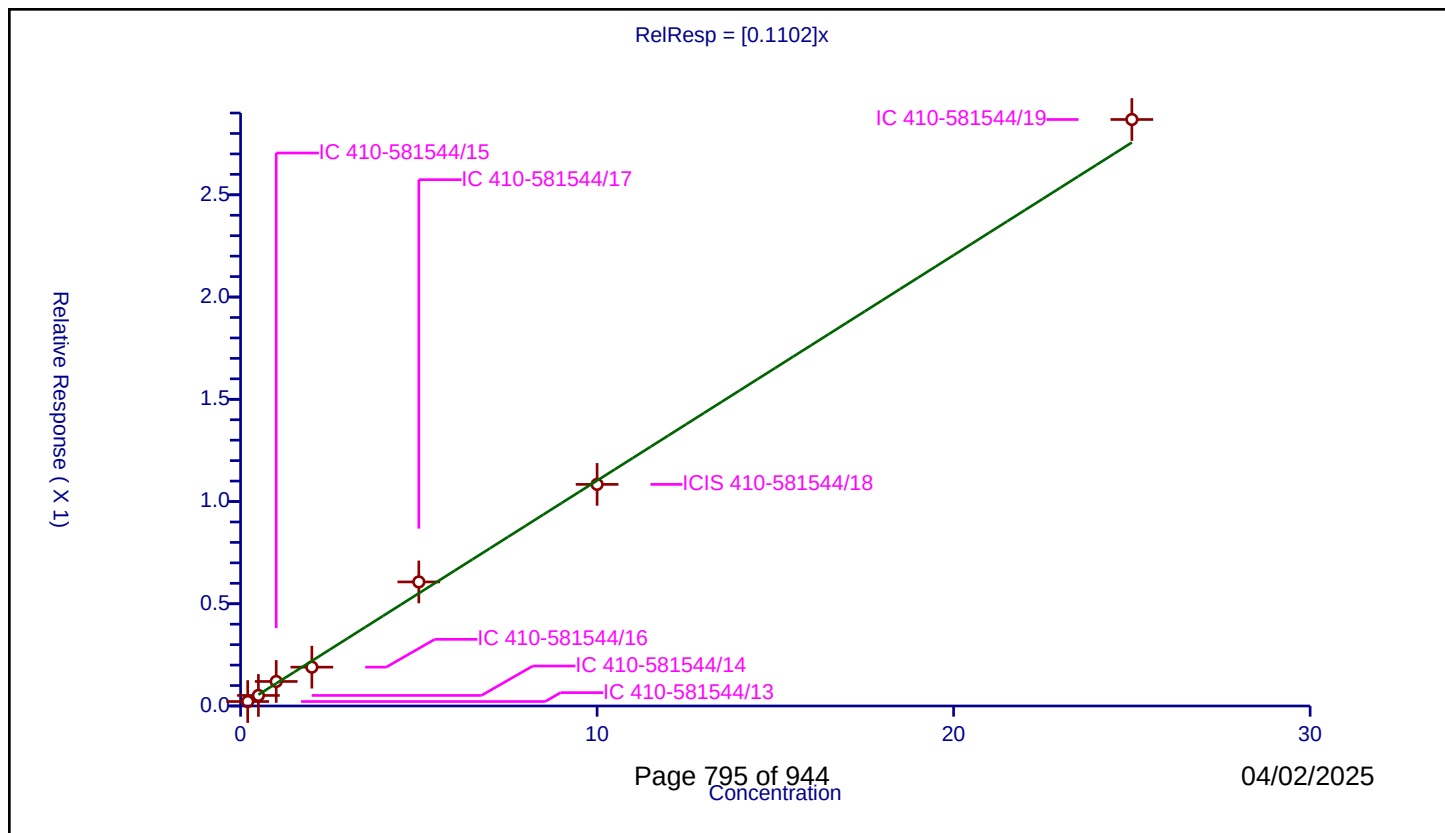
Curve Coefficients

Intercept: 0
Slope: 0.1102

Error Coefficients

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.021837	9.99966	2031304.0	0.109187	Y
2	IC 410-581544/14	0.5	0.051581	9.99966	2087335.0	0.103162	Y
3	IC 410-581544/15	1.0	0.119854	9.99966	1927527.0	0.119854	Y
4	IC 410-581544/16	2.0	0.189902	9.99966	2105483.0	0.094951	Y
5	IC 410-581544/17	5.0	0.60682	9.99966	1950593.0	0.121364	Y
6	ICIS 410-581544/18	10.0	1.083812	9.99966	2029850.0	0.108381	Y
7	IC 410-581544/19	25.0	2.868356	9.99966	2040629.0	0.114734	Y



Calibration

/ Methyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

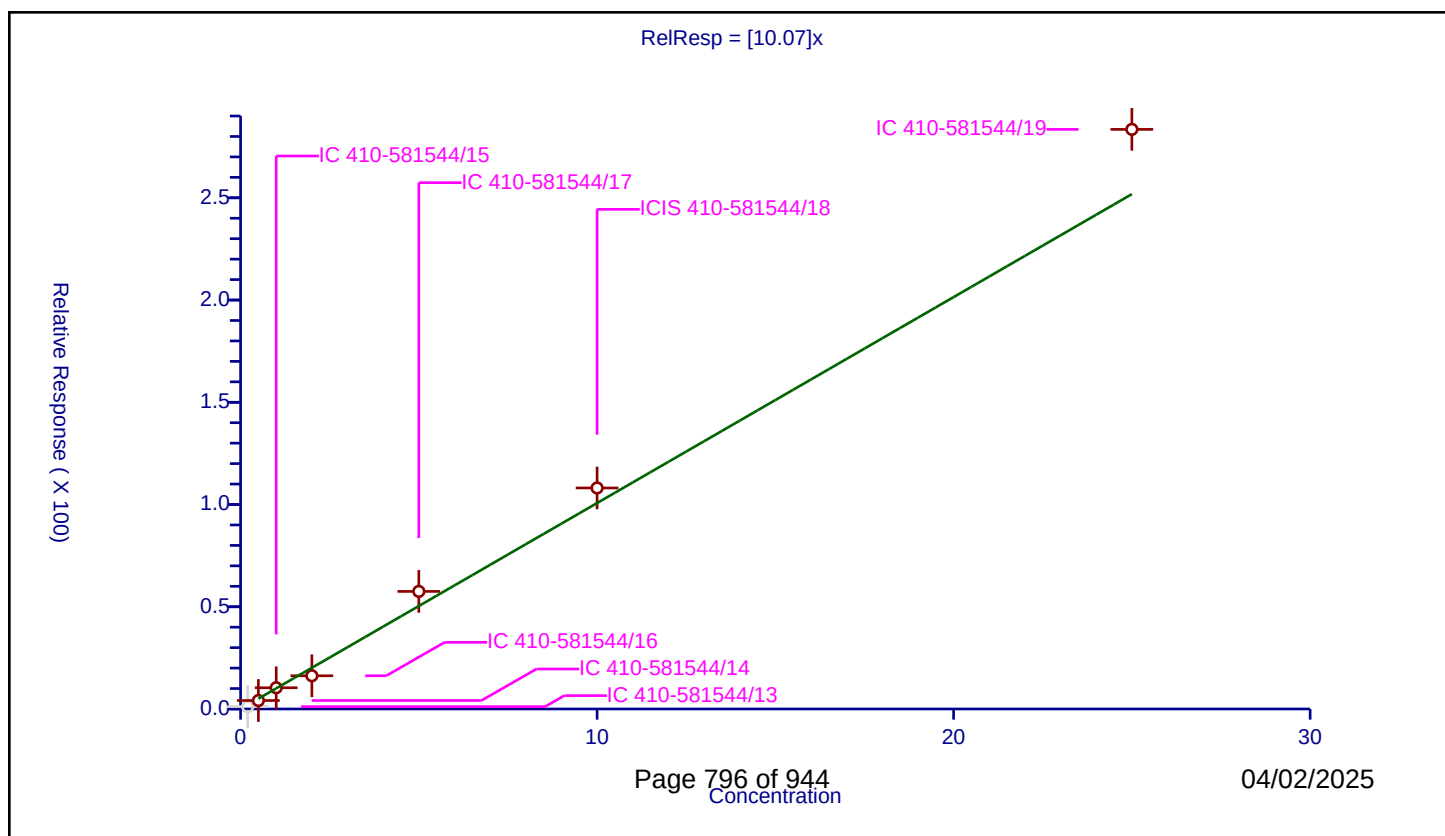
Curve Coefficients

Intercept: 0
Slope: 10.07

Error Coefficients

Relative Standard Deviation: 15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	1.1509	49.9983	75156.0	5.754501	N
2	IC 410-581544/14	0.5	4.134251	49.9983	78234.0	8.268502	Y
3	IC 410-581544/15	1.0	10.387812	49.9983	70537.0	10.387812	Y
4	IC 410-581544/16	2.0	16.247641	49.9983	82323.0	8.12382	Y
5	IC 410-581544/17	5.0	57.510902	49.9983	72915.0	11.50218	Y
6	ICIS 410-581544/18	10.0	108.097619	49.9983	80518.0	10.809762	Y
7	IC 410-581544/19	25.0	283.467018	49.9983	85355.0	11.338681	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

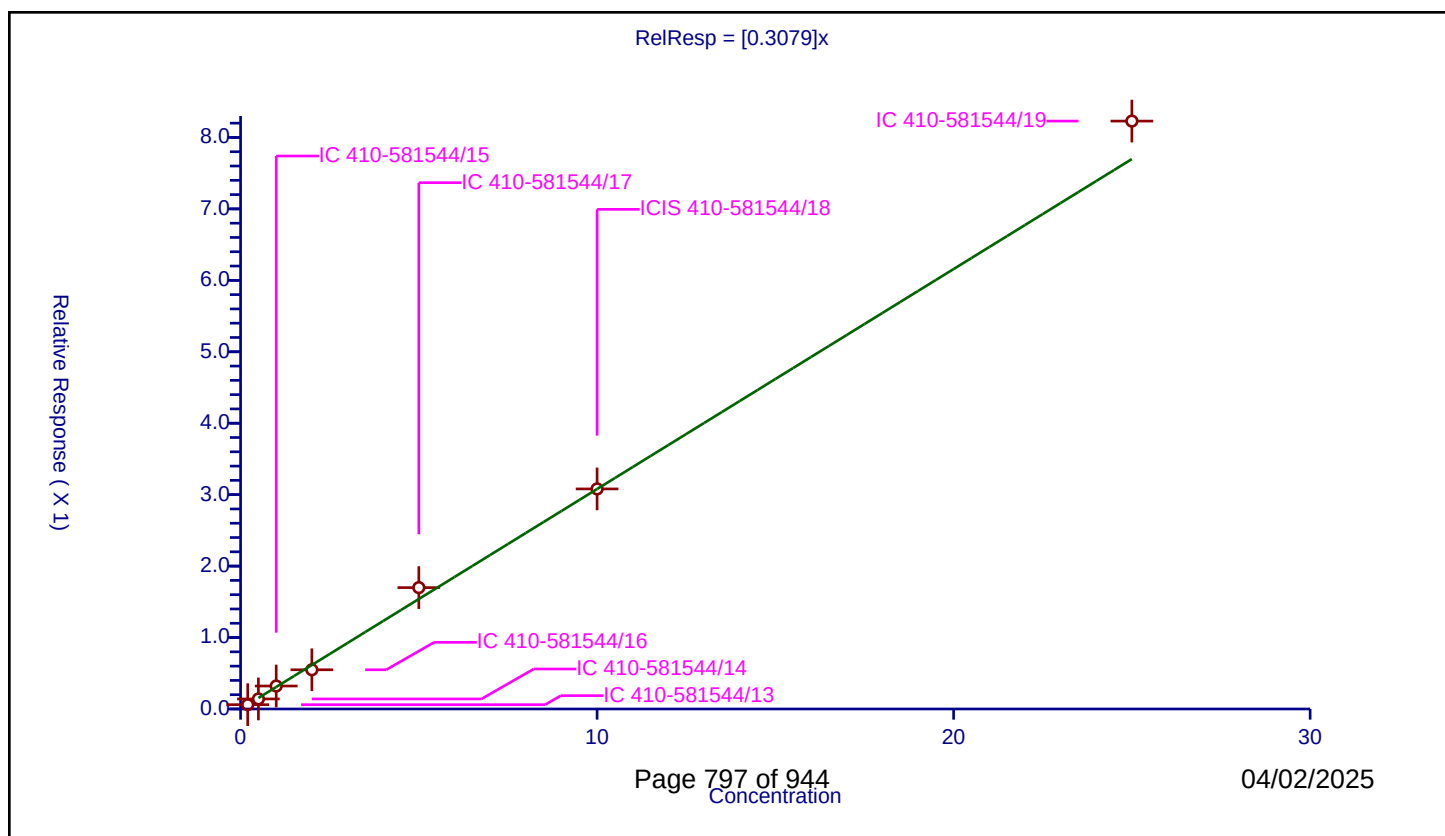
Curve Coefficients

Intercept: 0
Slope: 0.3079

Error Coefficients

Relative Standard Deviation: 7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.060314	9.99966	2031304.0	0.301569	Y
2	IC 410-581544/14	0.5	0.140481	9.99966	2087335.0	0.280961	Y
3	IC 410-581544/15	1.0	0.321437	9.99966	1927527.0	0.321437	Y
4	IC 410-581544/16	2.0	0.548734	9.99966	2105483.0	0.274367	Y
5	IC 410-581544/17	5.0	1.698764	9.99966	1950593.0	0.339753	Y
6	ICIS 410-581544/18	10.0	3.080143	9.99966	2029850.0	0.308014	Y
7	IC 410-581544/19	25.0	8.228918	9.99966	2040629.0	0.329157	Y



Calibration

/ 2-Nitropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

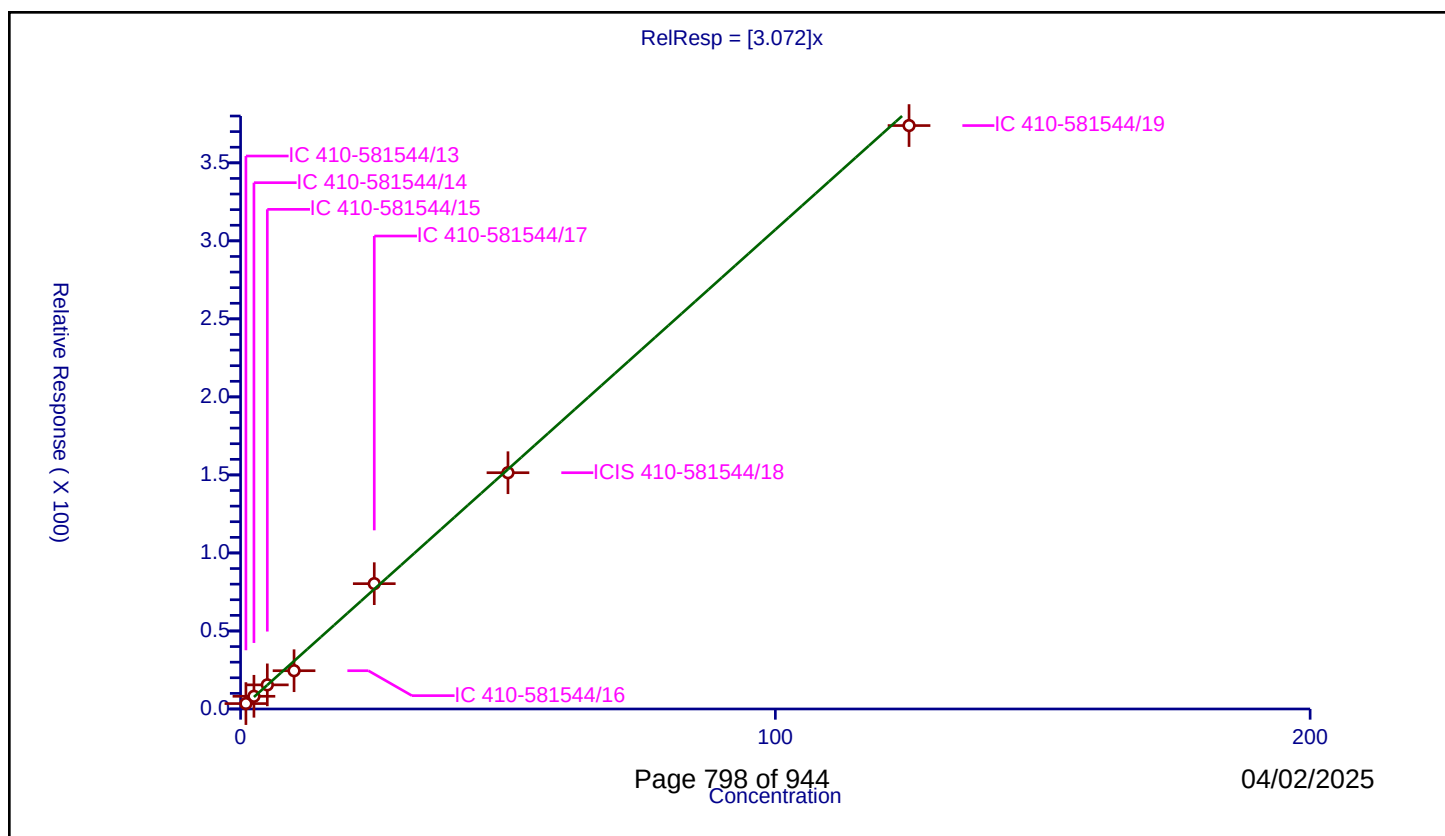
Curve Coefficients

Intercept: 0
 Slope: 3.072

Error Coefficients

Relative Standard Deviation: 10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	1.0	3.467336	49.9983	75156.0	3.467336	Y
2	IC 410-581544/14	2.5	8.146437	49.9983	78234.0	3.258575	Y
3	IC 410-581544/15	5.0	15.465116	49.9983	70537.0	3.093023	Y
4	IC 410-581544/16	10.0	24.534836	49.9983	82323.0	2.453484	Y
5	IC 410-581544/17	25.0	80.305162	49.9983	72915.0	3.212206	Y
6	ICIS 410-581544/18	50.0	151.419999	49.9983	80518.0	3.0284	Y
7	IC 410-581544/19	125.0	373.888641	49.9983	85355.0	2.991109	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

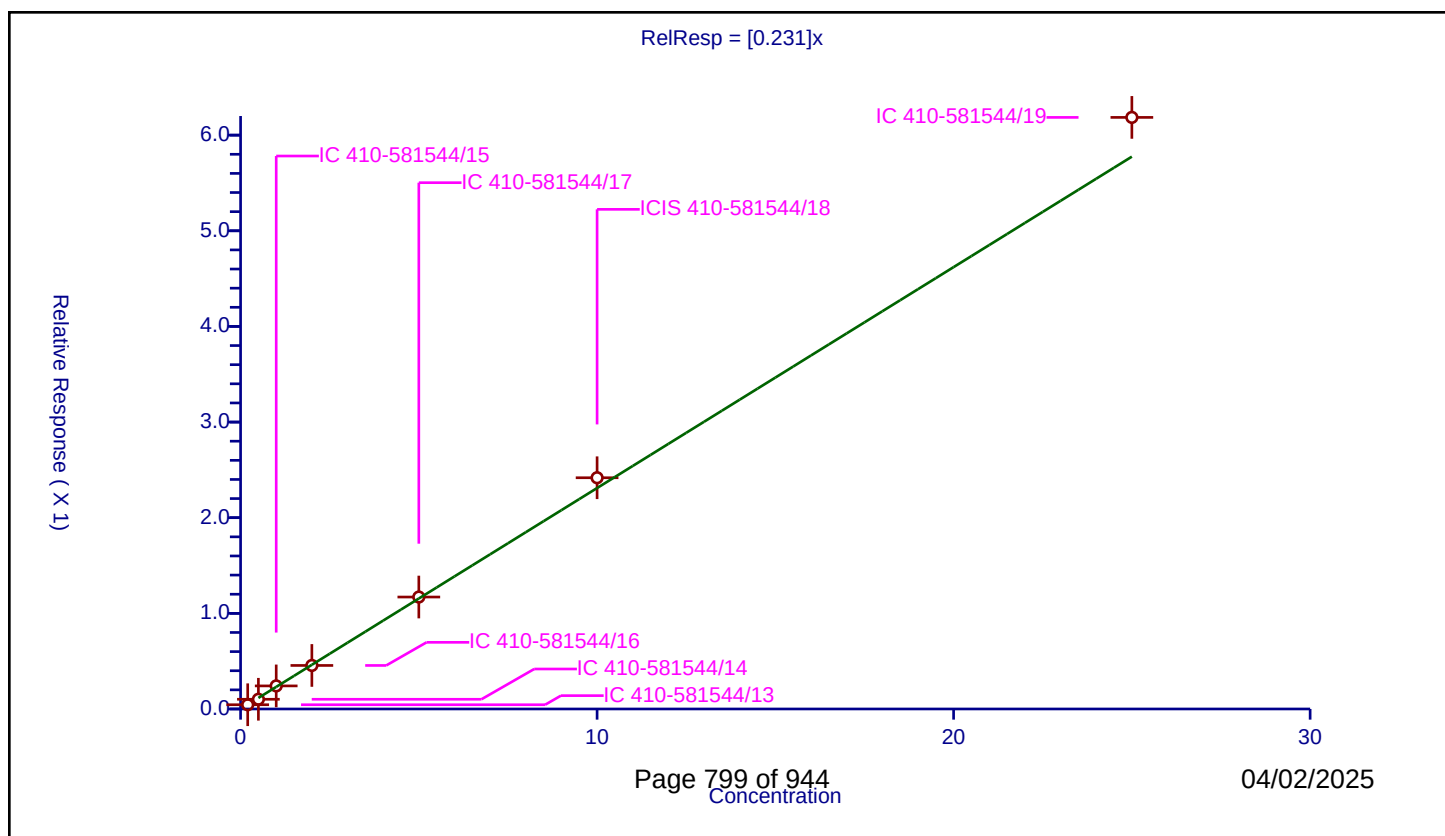
Curve Coefficients

Intercept: 0
Slope: 0.231

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.044344	9.99966	2031304.0	0.221722	Y
2	IC 410-581544/14	0.5	0.101585	9.99966	2087335.0	0.203171	Y
3	IC 410-581544/15	1.0	0.241223	9.99966	1927527.0	0.241223	Y
4	IC 410-581544/16	2.0	0.455186	9.99966	2105483.0	0.227593	Y
5	IC 410-581544/17	5.0	1.17062	9.99966	1950593.0	0.234124	Y
6	ICIS 410-581544/18	10.0	2.41786	9.99966	2029850.0	0.241786	Y
7	IC 410-581544/19	25.0	6.185515	9.99966	2040629.0	0.247421	Y



Calibration

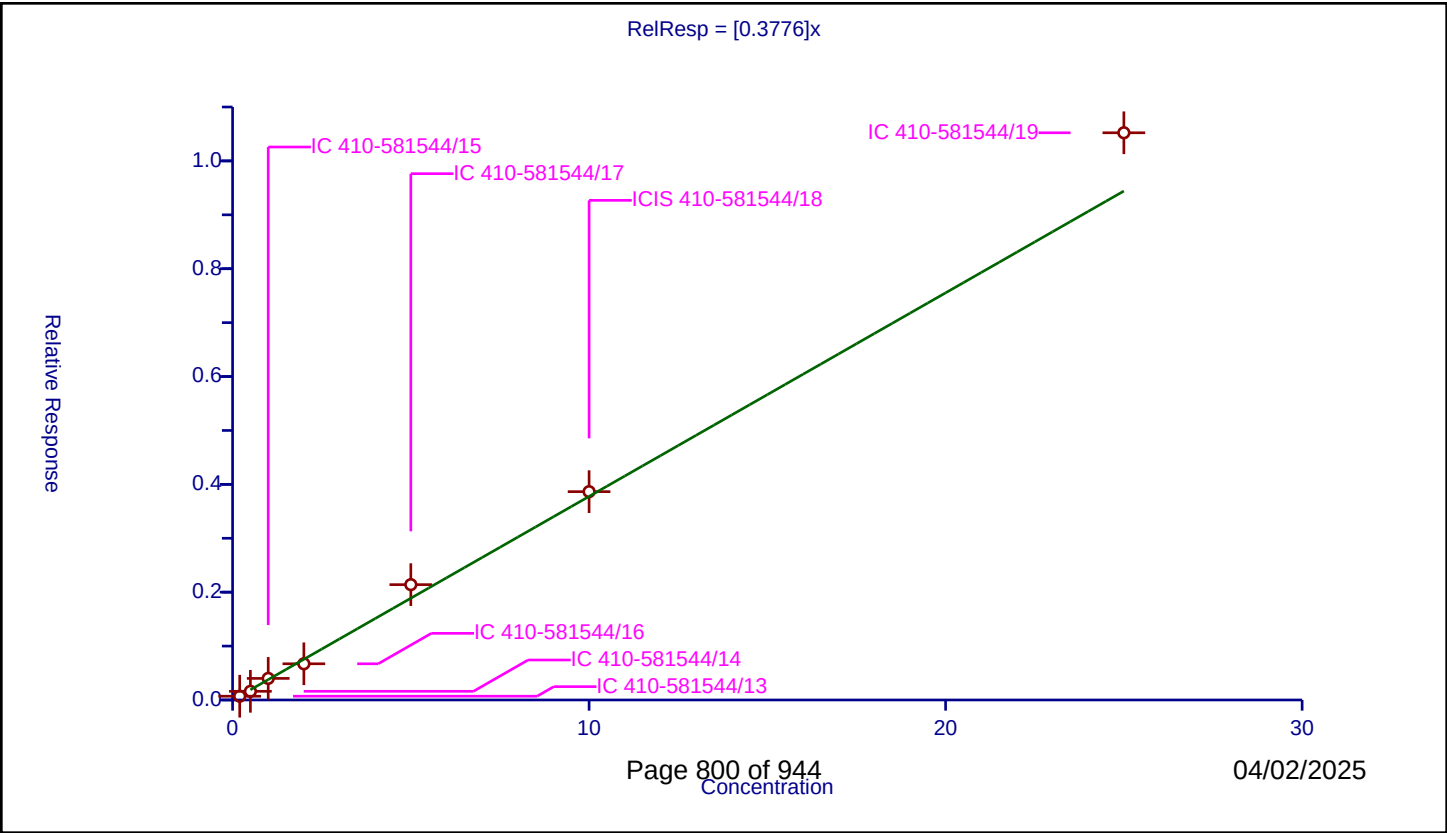
/ cis-1,3-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3776
Error Coefficients	

Relative Standard Deviation: 11.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.070076	9.99966	2031304.0	0.350379	Y
2	IC 410-581544/14	0.5	0.160865	9.99966	2087335.0	0.321729	Y
3	IC 410-581544/15	1.0	0.400318	9.99966	1927527.0	0.400318	Y
4	IC 410-581544/16	2.0	0.67141	9.99966	2105483.0	0.335705	Y
5	IC 410-581544/17	5.0	2.139856	9.99966	1950593.0	0.427971	Y
6	ICIS 410-581544/18	10.0	3.864568	9.99966	2029850.0	0.386457	Y
7	IC 410-581544/19	25.0	10.522368	9.99966	2040629.0	0.420895	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

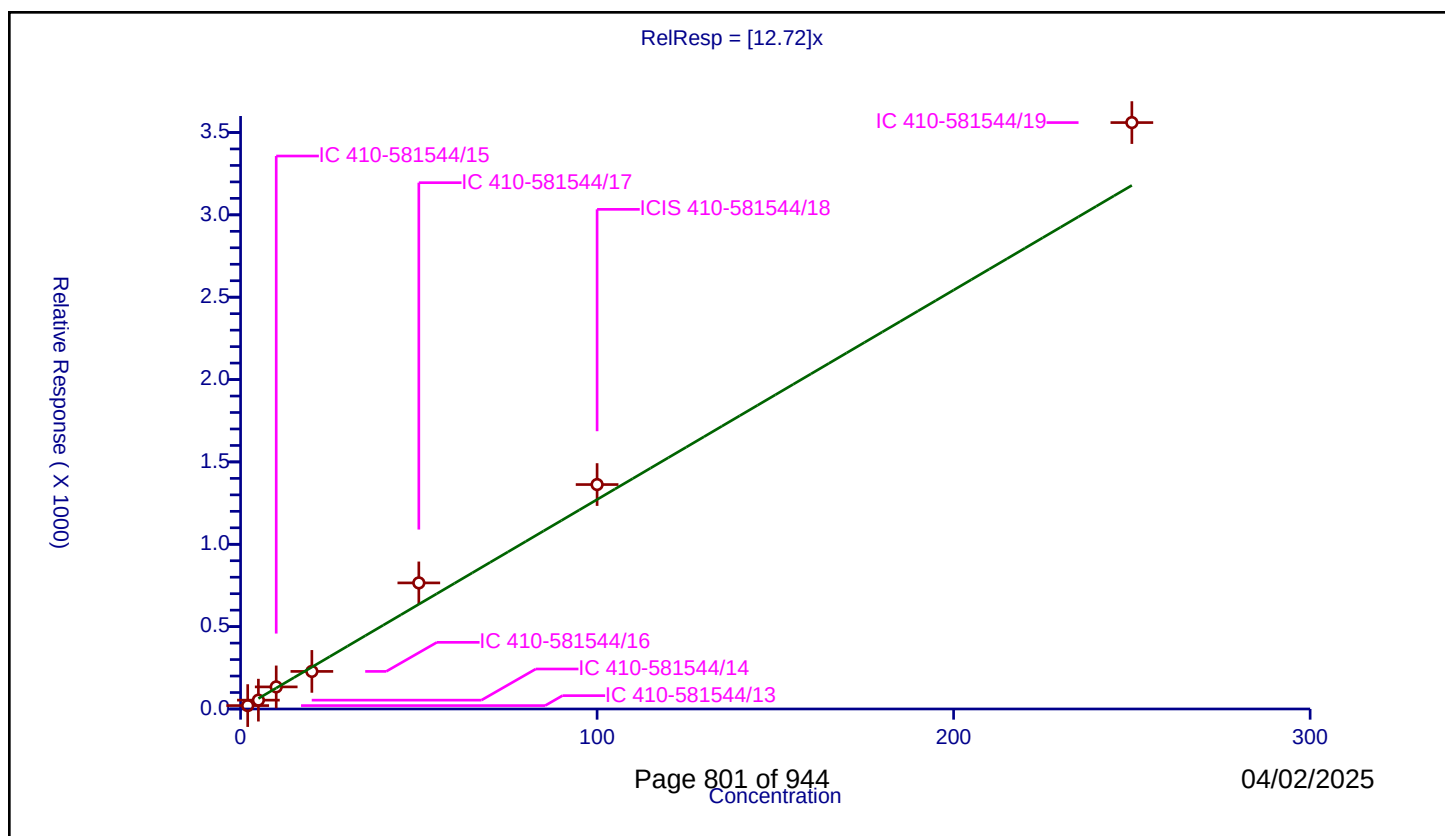
Curve Coefficients

Intercept: 0
Slope: 12.72

Error Coefficients

Relative Standard Deviation: 15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	2.0	20.561199	49.9983	75156.0	10.280599	Y
2	IC 410-581544/14	5.0	53.67177	49.9983	78234.0	10.734354	Y
3	IC 410-581544/15	10.0	134.066213	49.9983	70537.0	13.406621	Y
4	IC 410-581544/16	20.0	228.233436	49.9983	82323.0	11.411672	Y
5	IC 410-581544/17	50.0	765.533869	49.9983	72915.0	15.310677	Y
6	ICIS 410-581544/18	100.0	1362.621023	49.9983	80518.0	13.62621	Y
7	IC 410-581544/19	250.0	3560.234522	49.9983	85355.0	14.240938	Y



Calibration

/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

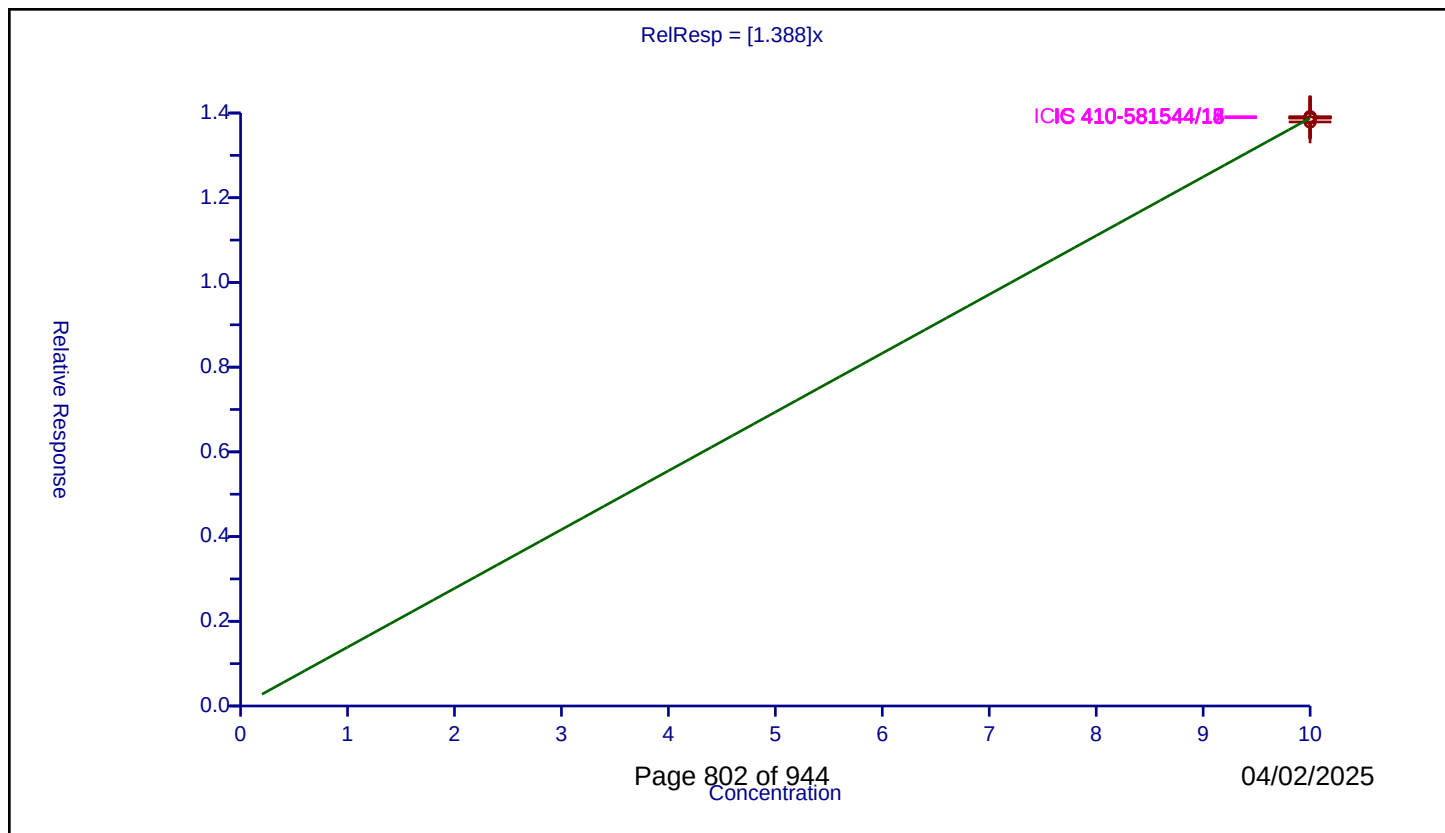
Curve Coefficients

Intercept: 0
 Slope: 1.388

Error Coefficients

Relative Standard Deviation: 0.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	9.99966	13.890558	9.99966	1466082.0	1.389103	Y
2	IC 410-581544/14	9.99966	13.912669	9.99966	1505979.0	1.391314	Y
3	IC 410-581544/15	9.99966	13.879069	9.99966	1402135.0	1.387954	Y
4	IC 410-581544/16	9.99966	13.892727	9.99966	1541126.0	1.38932	Y
5	IC 410-581544/17	9.99966	13.891048	9.99966	1433964.0	1.389152	Y
6	ICIS 410-581544/18	9.99966	13.901453	9.99966	1481835.0	1.390193	Y
7	IC 410-581544/19	9.99966	13.789333	9.99966	1496577.0	1.37898	Y



Calibration

/ Toluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

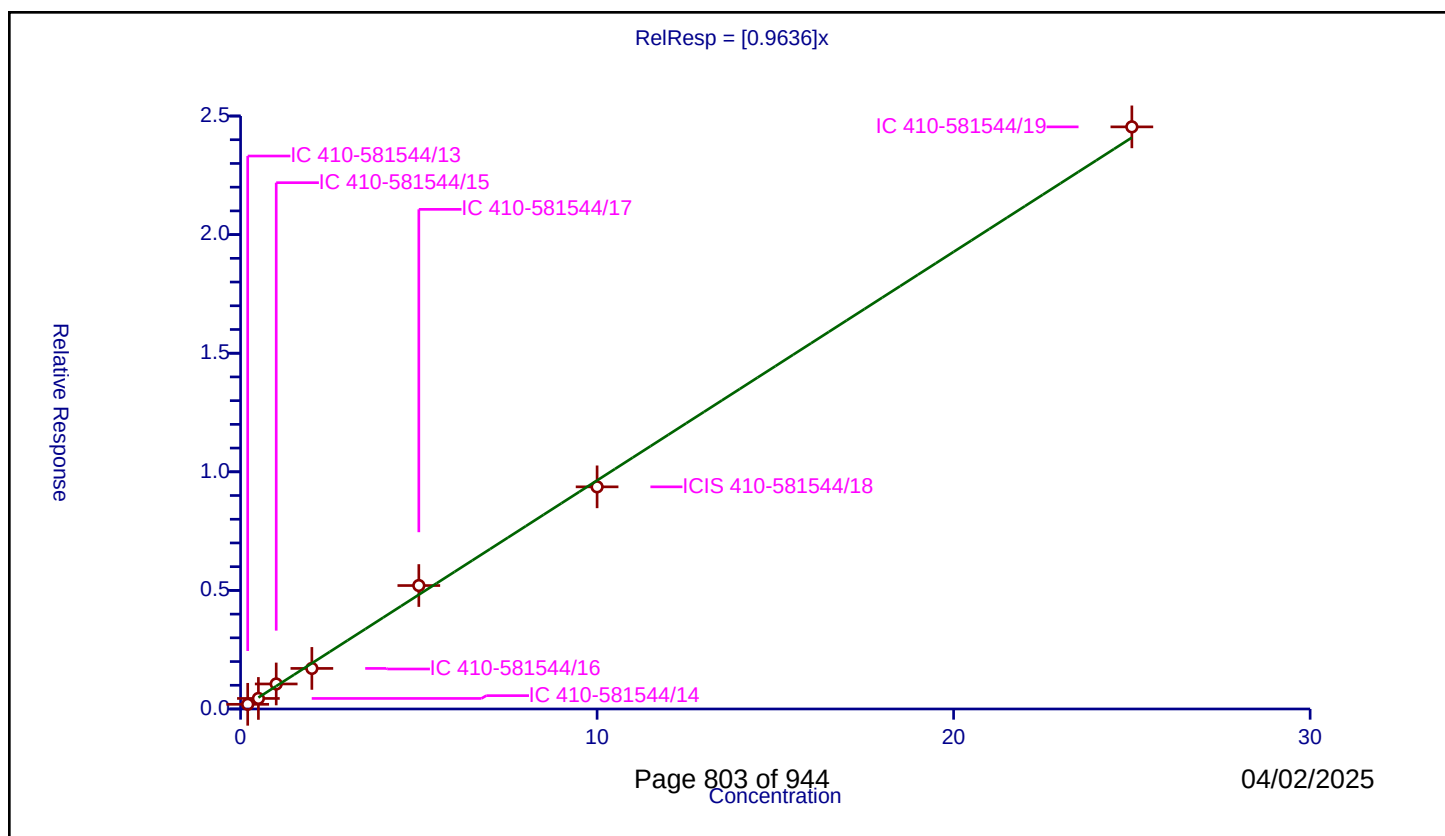
Curve Coefficients

Intercept: 0
Slope: 0.9636

Error Coefficients

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.197145	9.99966	1466082.0	0.985723	Y
2	IC 410-581544/14	0.5	0.444872	9.99966	1505979.0	0.889743	Y
3	IC 410-581544/15	1.0	1.055262	9.99966	1402135.0	1.055262	Y
4	IC 410-581544/16	2.0	1.710905	9.99966	1541126.0	0.855453	Y
5	IC 410-581544/17	5.0	5.205274	9.99966	1433964.0	1.041055	Y
6	ICIS 410-581544/18	10.0	9.365495	9.99966	1481835.0	0.936549	Y
7	IC 410-581544/19	25.0	24.542774	9.99966	1496577.0	0.981711	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

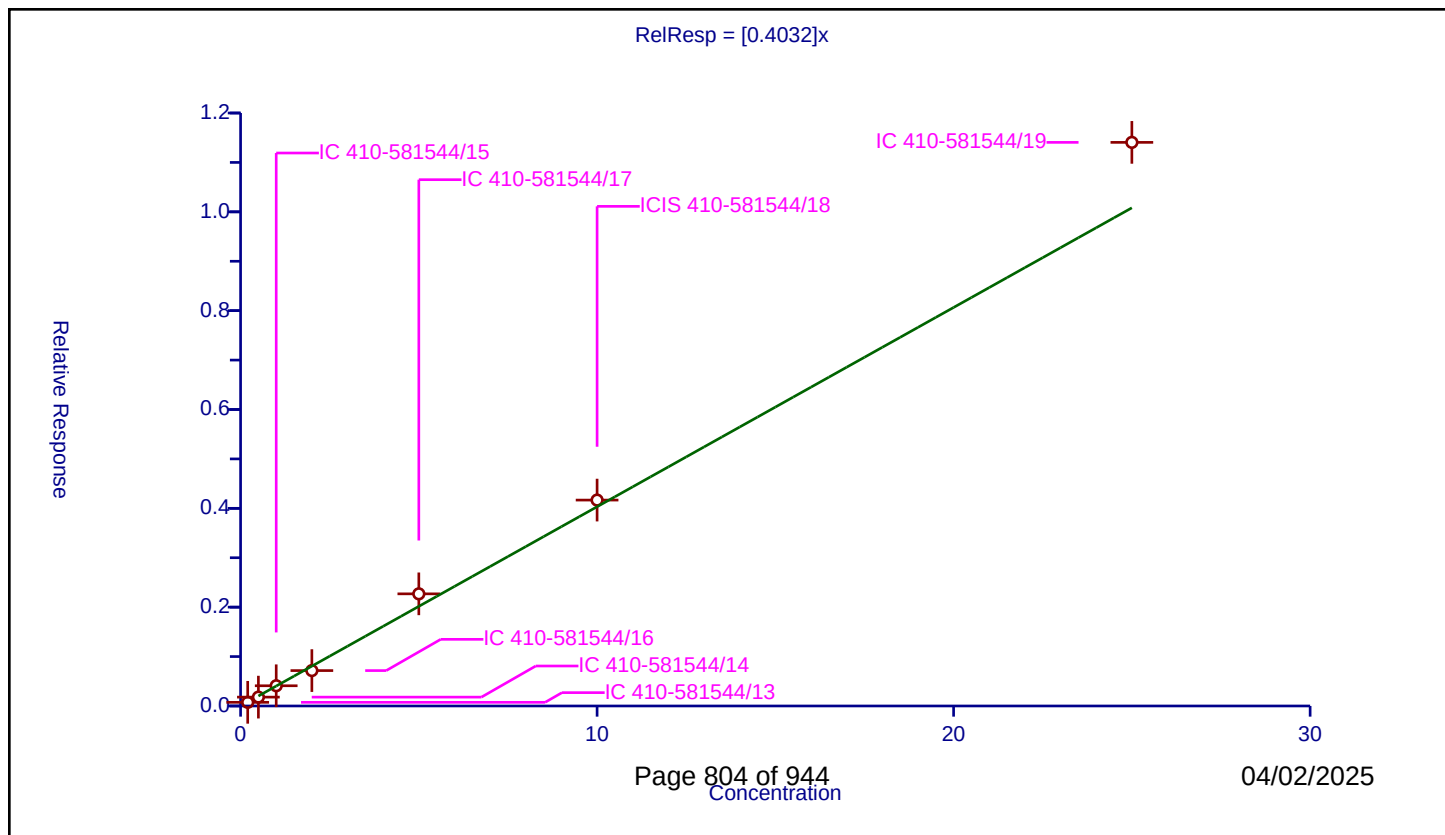
Curve Coefficients

Intercept: 0
Slope: 0.4032

Error Coefficients

Relative Standard Deviation: 10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.073991	9.99966	1466082.0	0.369953	Y
2	IC 410-581544/14	0.5	0.179233	9.99966	1505979.0	0.358466	Y
3	IC 410-581544/15	1.0	0.409333	9.99966	1402135.0	0.409333	Y
4	IC 410-581544/16	2.0	0.716367	9.99966	1541126.0	0.358184	Y
5	IC 410-581544/17	5.0	2.26938	9.99966	1433964.0	0.453876	Y
6	ICIS 410-581544/18	10.0	4.166847	9.99966	1481835.0	0.416685	Y
7	IC 410-581544/19	25.0	11.406022	9.99966	1496577.0	0.456241	Y



Calibration

/ Ethyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

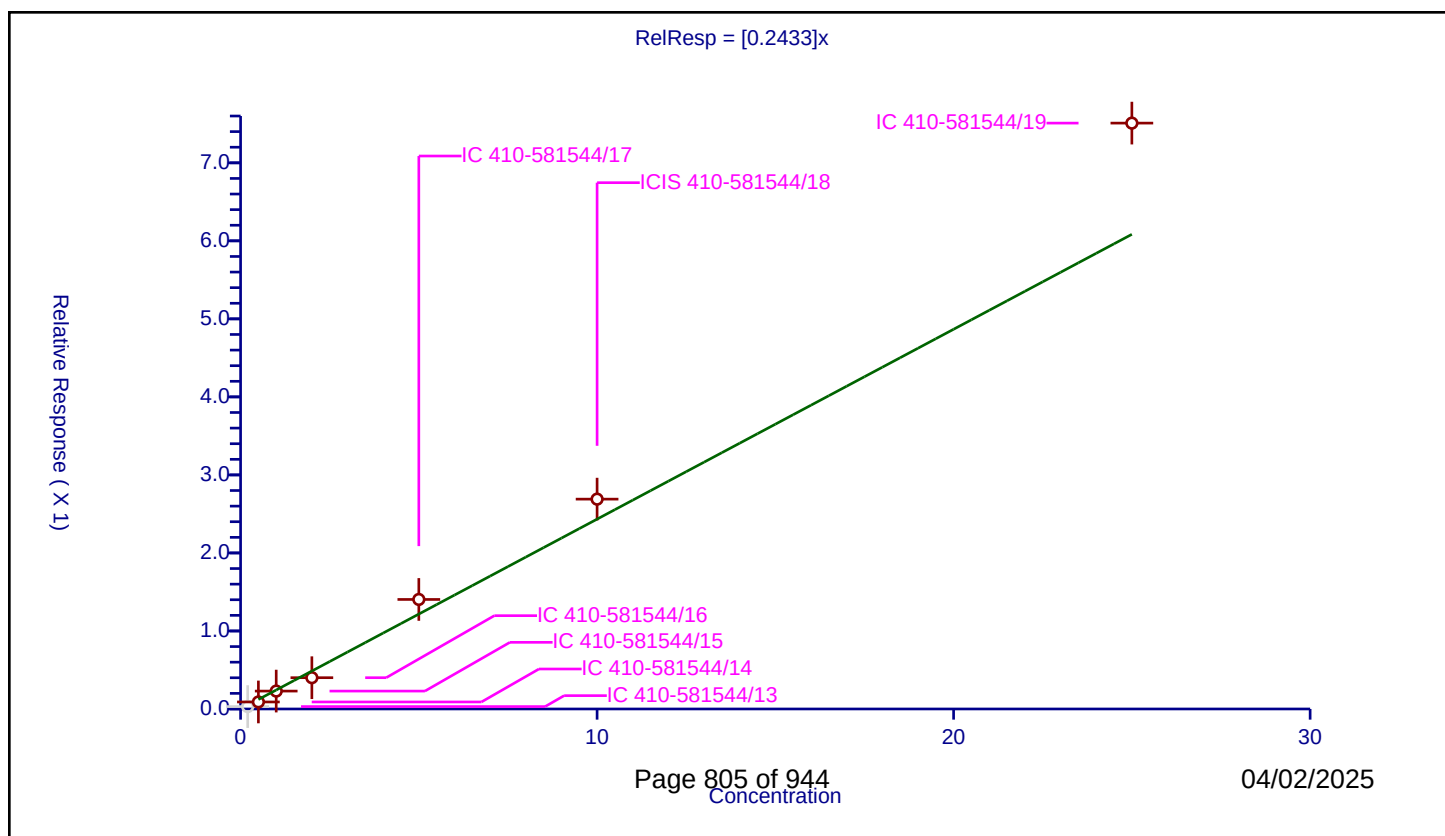
Curve Coefficients

Intercept: 0
Slope: 0.2433

Error Coefficients

Relative Standard Deviation: 19.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.031095	9.99966	1466082.0	0.155477	N
2	IC 410-581544/14	0.5	0.089972	9.99966	1505979.0	0.179943	Y
3	IC 410-581544/15	1.0	0.229428	9.99966	1402135.0	0.229428	Y
4	IC 410-581544/16	2.0	0.401141	9.99966	1541126.0	0.200571	Y
5	IC 410-581544/17	5.0	1.404025	9.99966	1433964.0	0.280805	Y
6	ICIS 410-581544/18	10.0	2.689506	9.99966	1481835.0	0.268951	Y
7	IC 410-581544/19	25.0	7.508914	9.99966	1496577.0	0.300357	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

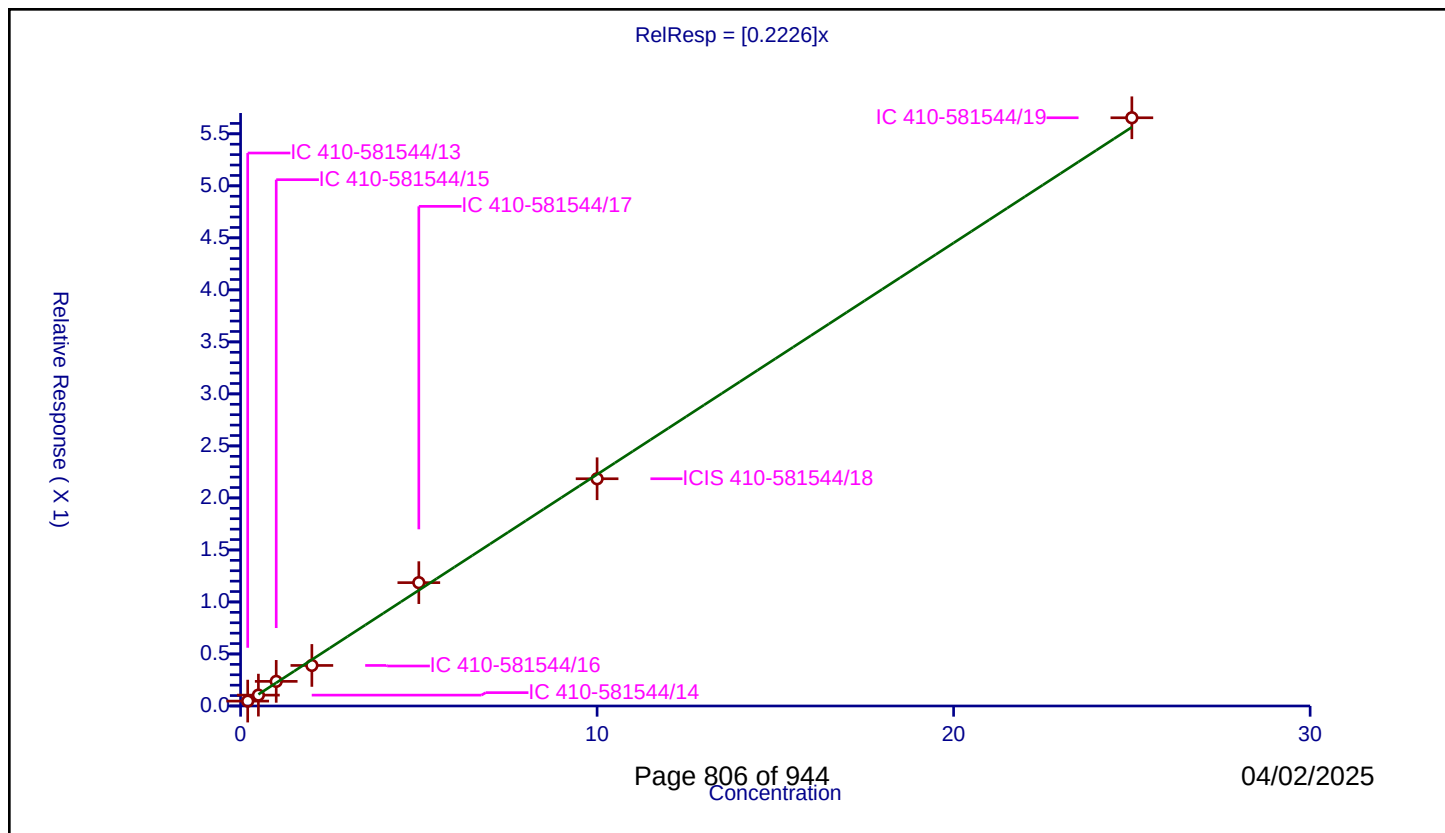
Curve Coefficients

Intercept: 0
 Slope: 0.2226

Error Coefficients

Relative Standard Deviation: 7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.047131	9.99966	1466082.0	0.235654	Y
2	IC 410-581544/14	0.5	0.104473	9.99966	1505979.0	0.208947	Y
3	IC 410-581544/15	1.0	0.236674	9.99966	1402135.0	0.236674	Y
4	IC 410-581544/16	2.0	0.389799	9.99966	1541126.0	0.1949	Y
5	IC 410-581544/17	5.0	1.185701	9.99966	1433964.0	0.23714	Y
6	ICIS 410-581544/18	10.0	2.184231	9.99966	1481835.0	0.218423	Y
7	IC 410-581544/19	25.0	5.654445	9.99966	1496577.0	0.226178	Y



Calibration

/ Tetrachloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

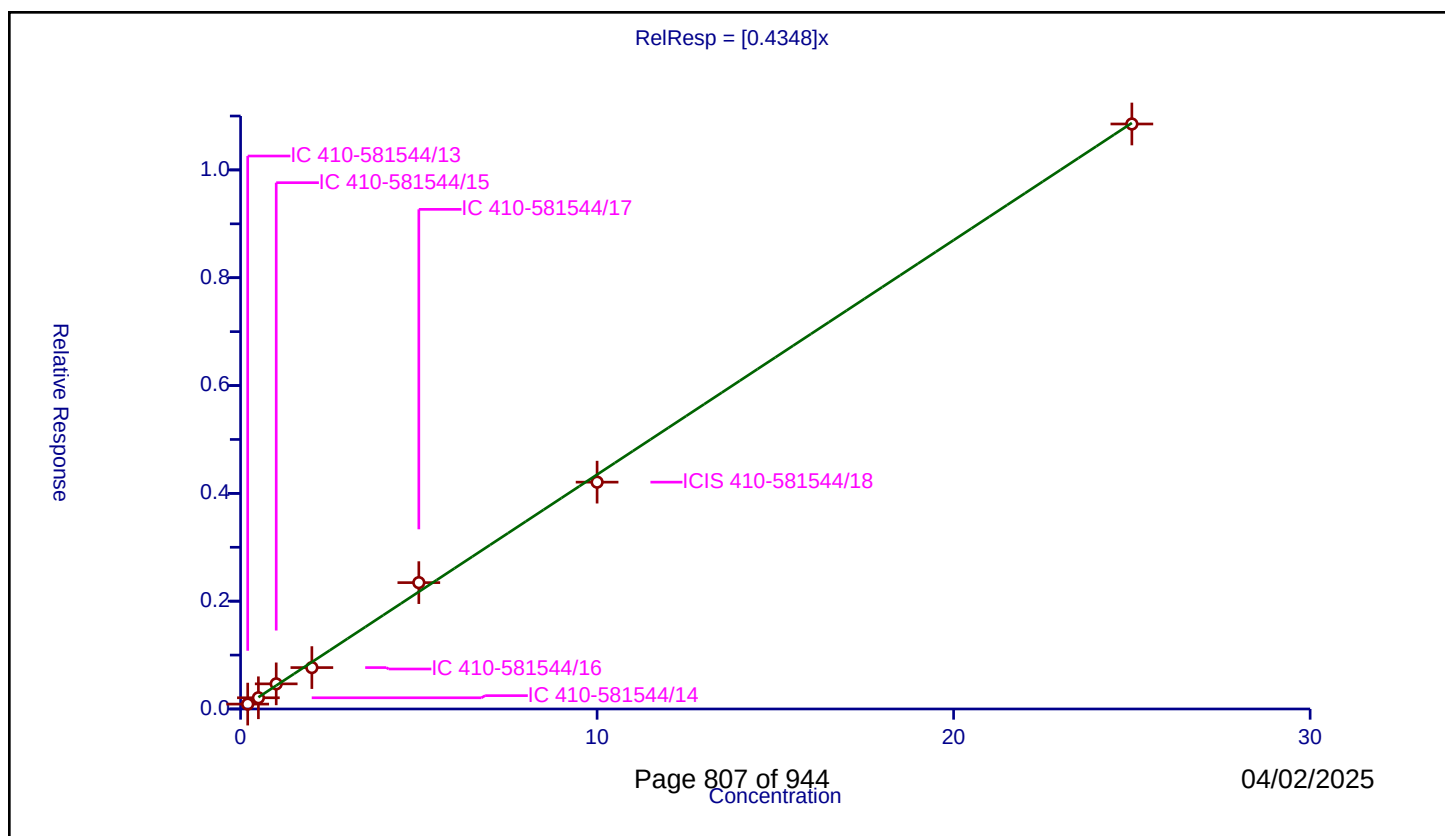
Curve Coefficients

Intercept: 0
Slope: 0.4348

Error Coefficients

Relative Standard Deviation: 7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.090722	9.99966	1466082.0	0.453609	Y
2	IC 410-581544/14	0.5	0.208196	9.99966	1505979.0	0.416393	Y
3	IC 410-581544/15	1.0	0.466116	9.99966	1402135.0	0.466116	Y
4	IC 410-581544/16	2.0	0.768075	9.99966	1541126.0	0.384037	Y
5	IC 410-581544/17	5.0	2.344226	9.99966	1433964.0	0.468845	Y
6	ICIS 410-581544/18	10.0	4.208045	9.99966	1481835.0	0.420804	Y
7	IC 410-581544/19	25.0	10.852324	9.99966	1496577.0	0.434093	Y



Calibration

/ 1,3-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

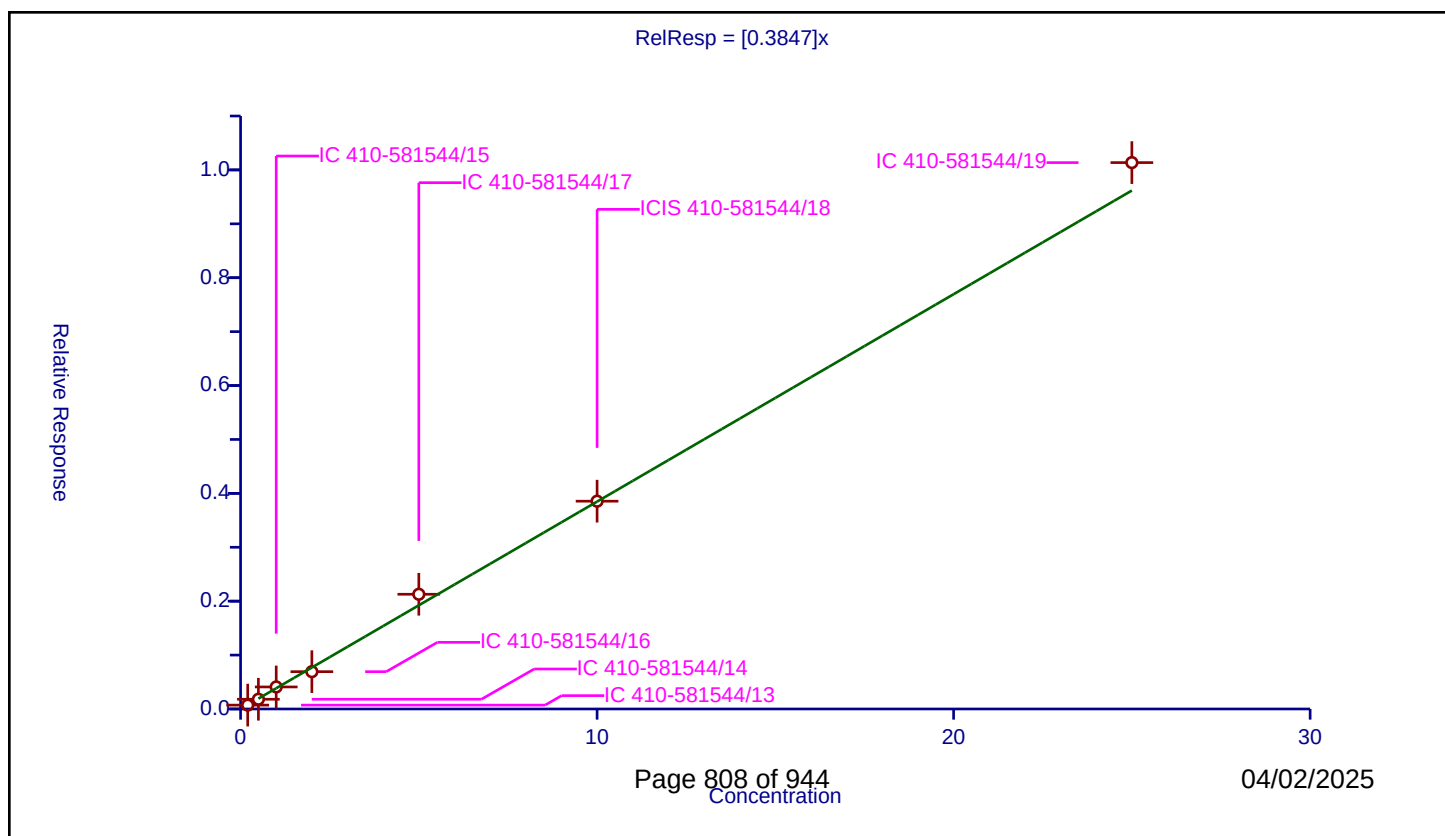
Curve Coefficients

Intercept: 0
Slope: 0.3847

Error Coefficients

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.072101	9.99966	1466082.0	0.360506	Y
2	IC 410-581544/14	0.5	0.180567	9.99966	1505979.0	0.361135	Y
3	IC 410-581544/15	1.0	0.408691	9.99966	1402135.0	0.408691	Y
4	IC 410-581544/16	2.0	0.692113	9.99966	1541126.0	0.346057	Y
5	IC 410-581544/17	5.0	2.128335	9.99966	1433964.0	0.425667	Y
6	ICIS 410-581544/18	10.0	3.854853	9.99966	1481835.0	0.385485	Y
7	IC 410-581544/19	25.0	10.13588	9.99966	1496577.0	0.405435	Y



Calibration

/ 2-Hexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

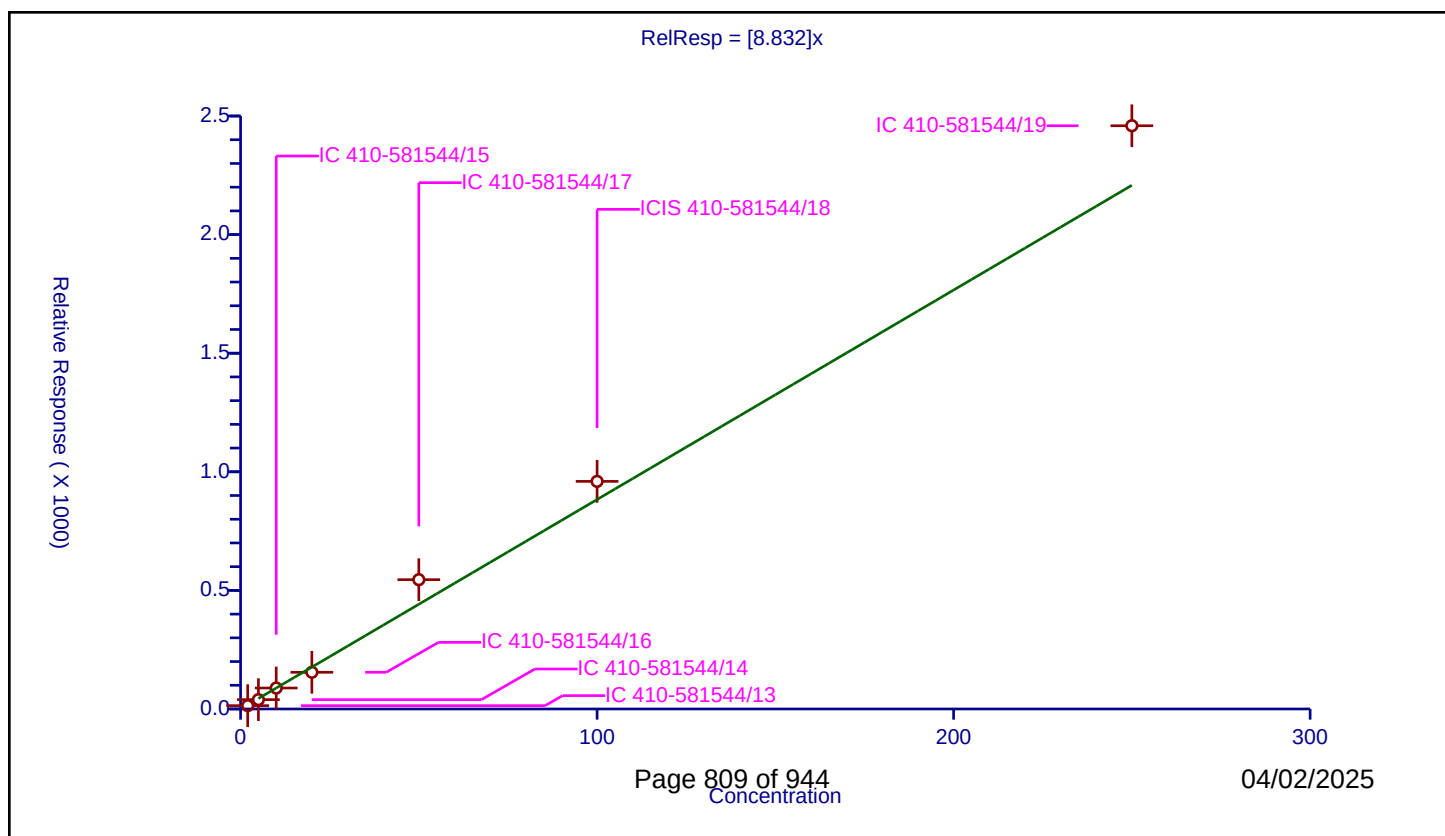
Curve Coefficients

Intercept: 0
Slope: 8.832

Error Coefficients

Relative Standard Deviation: 15.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	2.0	14.075577	49.9983	75156.0	7.037788	Y
2	IC 410-581544/14	5.0	39.354952	49.9983	78234.0	7.87099	Y
3	IC 410-581544/15	10.0	88.393864	49.9983	70537.0	8.839386	Y
4	IC 410-581544/16	20.0	154.704845	49.9983	82323.0	7.735242	Y
5	IC 410-581544/17	50.0	545.26501	49.9983	72915.0	10.9053	Y
6	ICIS 410-581544/18	100.0	959.633533	49.9983	80518.0	9.596335	Y
7	IC 410-581544/19	250.0	2459.010761	49.9983	85355.0	9.836043	Y



Calibration

/ Chlorodibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

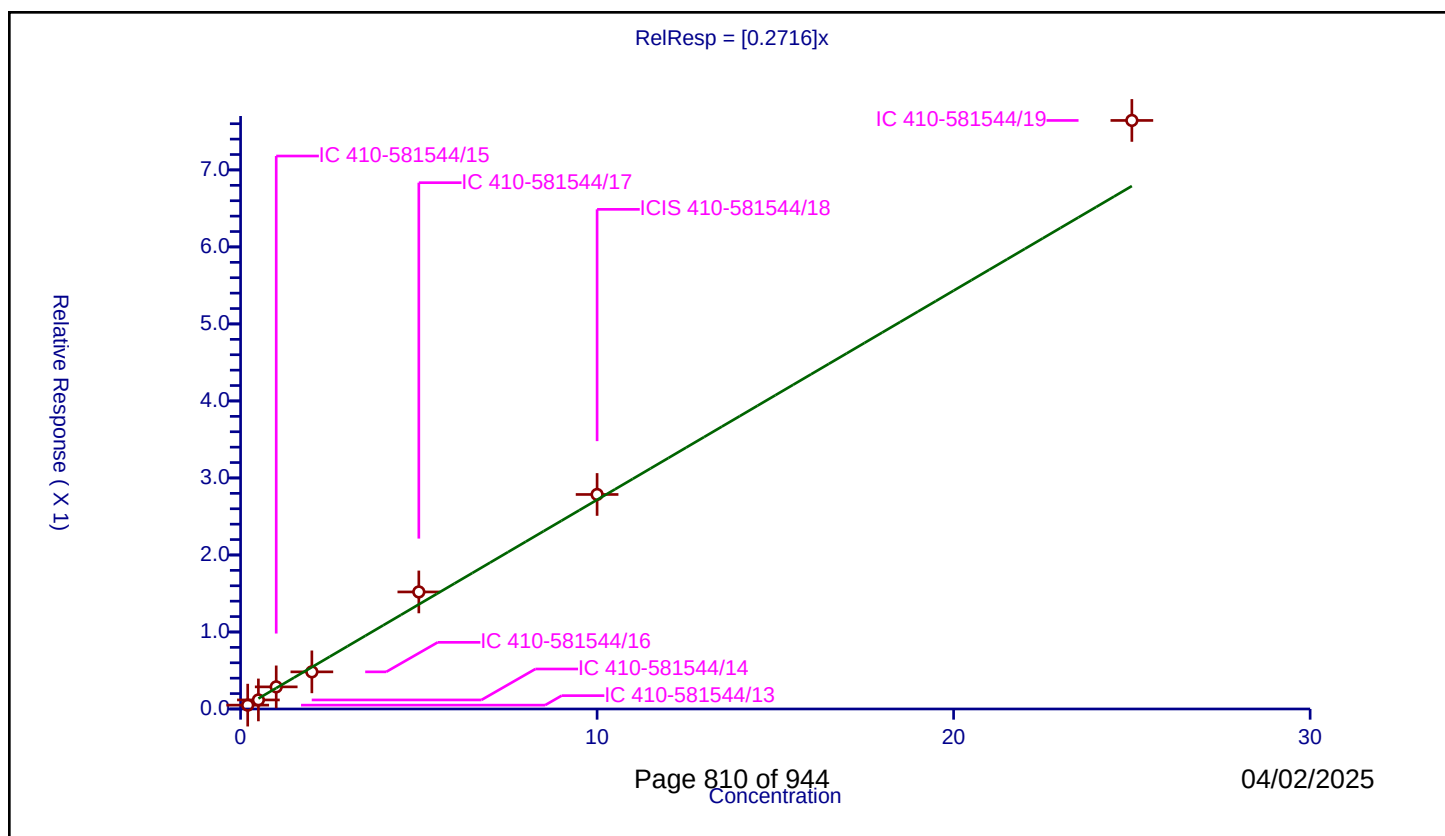
Curve Coefficients

Intercept: 0
Slope: 0.2716

Error Coefficients

Relative Standard Deviation: 10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.049907	9.99966	1466082.0	0.249534	Y
2	IC 410-581544/14	0.5	0.117694	9.99966	1505979.0	0.235387	Y
3	IC 410-581544/15	1.0	0.287102	9.99966	1402135.0	0.287102	Y
4	IC 410-581544/16	2.0	0.482086	9.99966	1541126.0	0.241043	Y
5	IC 410-581544/17	5.0	1.520112	9.99966	1433964.0	0.304022	Y
6	ICIS 410-581544/18	10.0	2.785607	9.99966	1481835.0	0.278561	Y
7	IC 410-581544/19	25.0	7.642641	9.99966	1496577.0	0.305706	Y

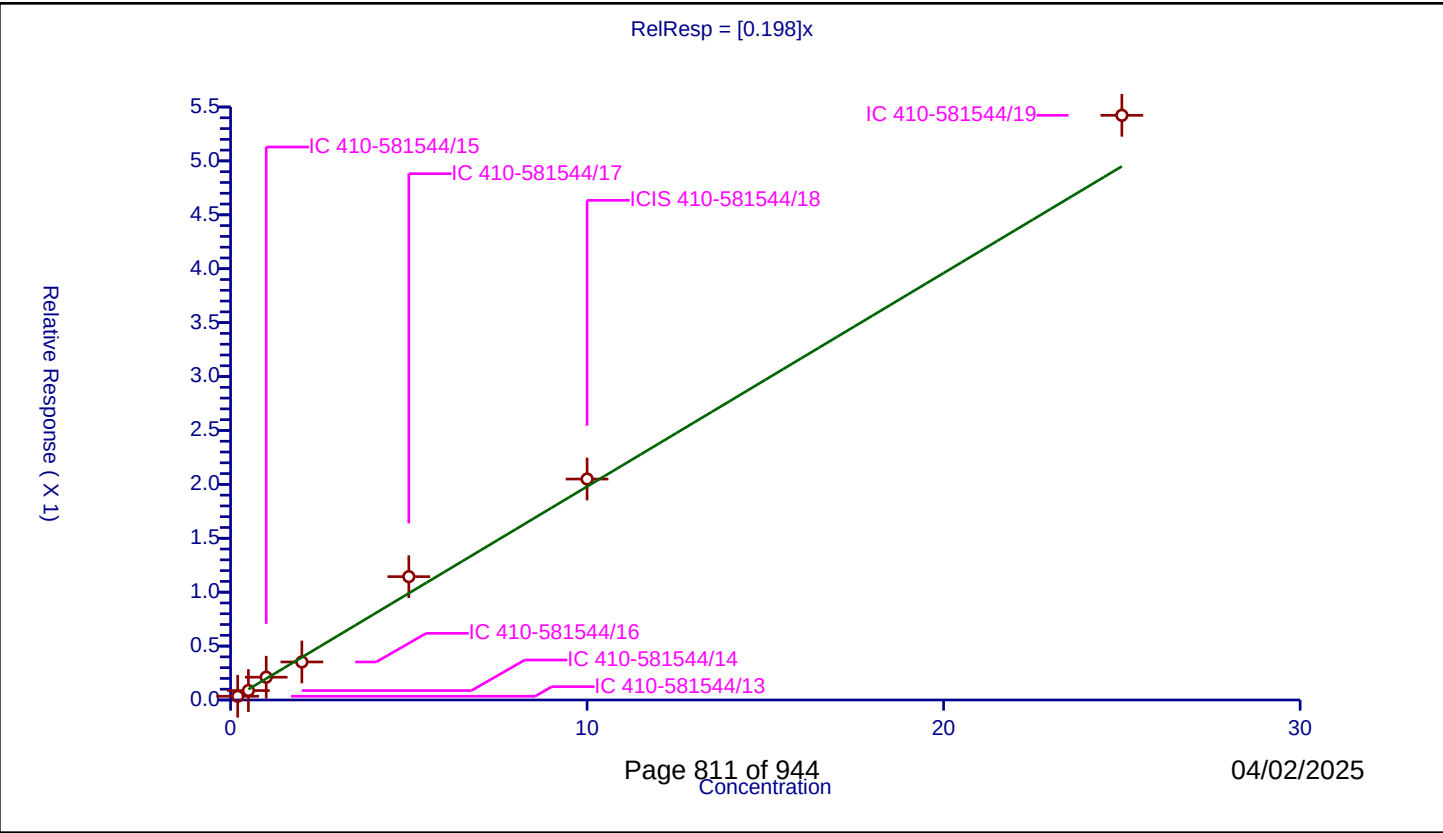


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.198

Error Coefficients	
Relative Standard Deviation:	11.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.034499	9.99966	1466082.0	0.172495	Y
2	IC 410-581544/14	0.5	0.087468	9.99966	1505979.0	0.174937	Y
3	IC 410-581544/15	1.0	0.211413	9.99966	1402135.0	0.211413	Y
4	IC 410-581544/16	2.0	0.35284	9.99966	1541126.0	0.17642	Y
5	IC 410-581544/17	5.0	1.144048	9.99966	1433964.0	0.22881	Y
6	ICIS 410-581544/18	10.0	2.049416	9.99966	1481835.0	0.204942	Y
7	IC 410-581544/19	25.0	5.423038	9.99966	1496577.0	0.216922	Y



Calibration

/ 1-Chlorohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

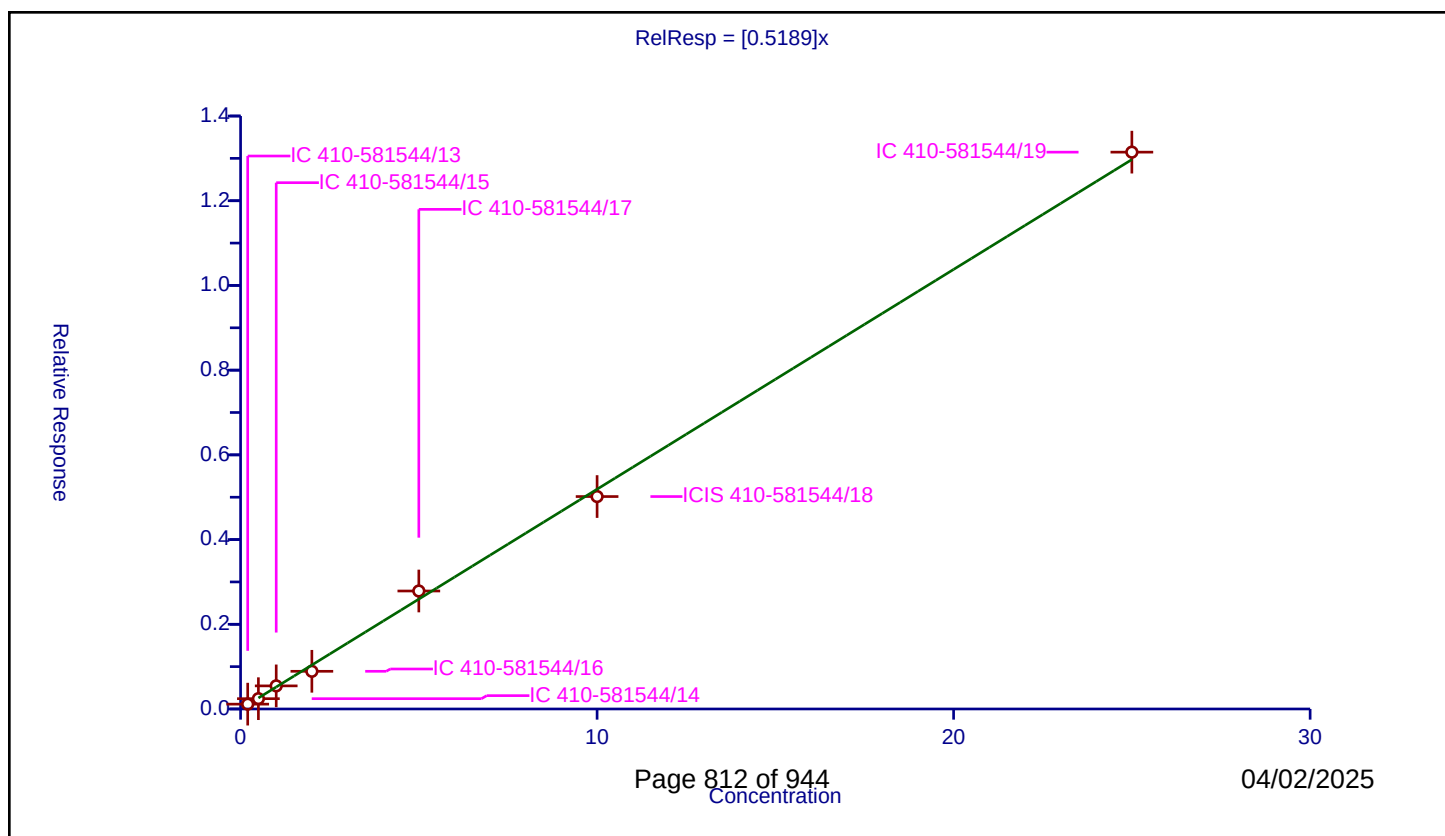
Curve Coefficients

Intercept: 0
Slope: 0.5189

Error Coefficients

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.114001	9.99966	1466082.0	0.570003	Y
2	IC 410-581544/14	0.5	0.243475	9.99966	1505979.0	0.486949	Y
3	IC 410-581544/15	1.0	0.545728	9.99966	1402135.0	0.545728	Y
4	IC 410-581544/16	2.0	0.889819	9.99966	1541126.0	0.444491	Y
5	IC 410-581544/17	5.0	2.785721	9.99966	1433964.0	0.557144	Y
6	ICIS 410-581544/18	10.0	5.015907	9.99966	1481835.0	0.501591	Y
7	IC 410-581544/19	25.0	13.147183	9.99966	1496577.0	0.525887	Y



Calibration

/ Chlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

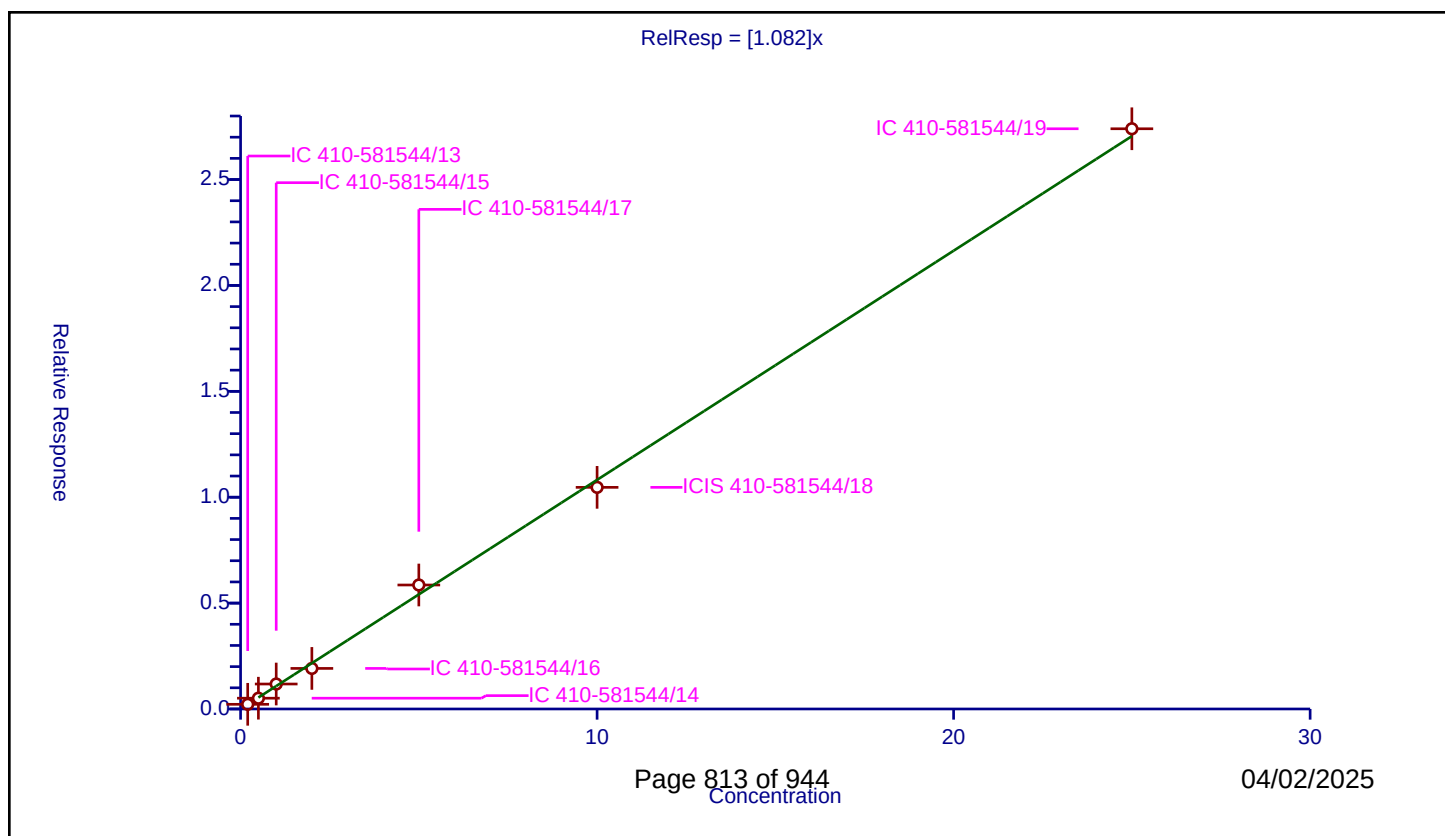
Curve Coefficients

Intercept: 0
Slope: 1.082

Error Coefficients

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.221051	9.99966	1466082.0	1.105255	Y
2	IC 410-581544/14	0.5	0.508881	9.99966	1505979.0	1.017762	Y
3	IC 410-581544/15	1.0	1.17924	9.99966	1402135.0	1.17924	Y
4	IC 410-581544/16	2.0	1.915554	9.99966	1541126.0	0.957777	Y
5	IC 410-581544/17	5.0	5.855213	9.99966	1433964.0	1.171043	Y
6	ICIS 410-581544/18	10.0	10.465924	9.99966	1481835.0	1.046592	Y
7	IC 410-581544/19	25.0	27.397812	9.99966	1496577.0	1.095912	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

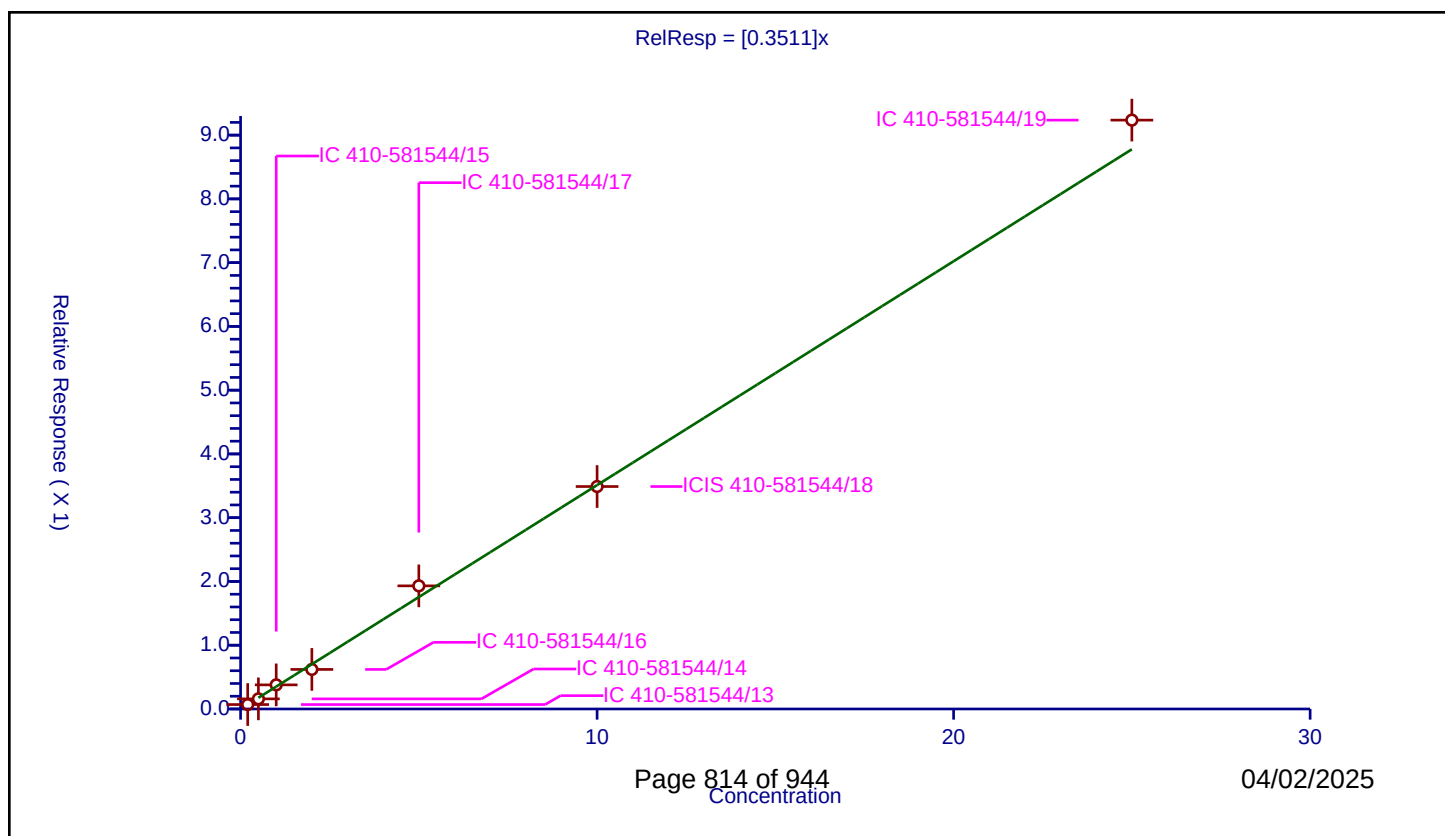
Curve Coefficients

Intercept: 0
Slope: 0.3511

Error Coefficients

Relative Standard Deviation: 8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.069469	9.99966	1466082.0	0.347343	Y
2	IC 410-581544/14	0.5	0.158675	9.99966	1505979.0	0.317351	Y
3	IC 410-581544/15	1.0	0.378374	9.99966	1402135.0	0.378374	Y
4	IC 410-581544/16	2.0	0.62035	9.99966	1541126.0	0.310175	Y
5	IC 410-581544/17	5.0	1.931085	9.99966	1433964.0	0.386217	Y
6	ICIS 410-581544/18	10.0	3.488988	9.99966	1481835.0	0.348899	Y
7	IC 410-581544/19	25.0	9.235662	9.99966	1496577.0	0.369426	Y



Calibration

/ Ethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

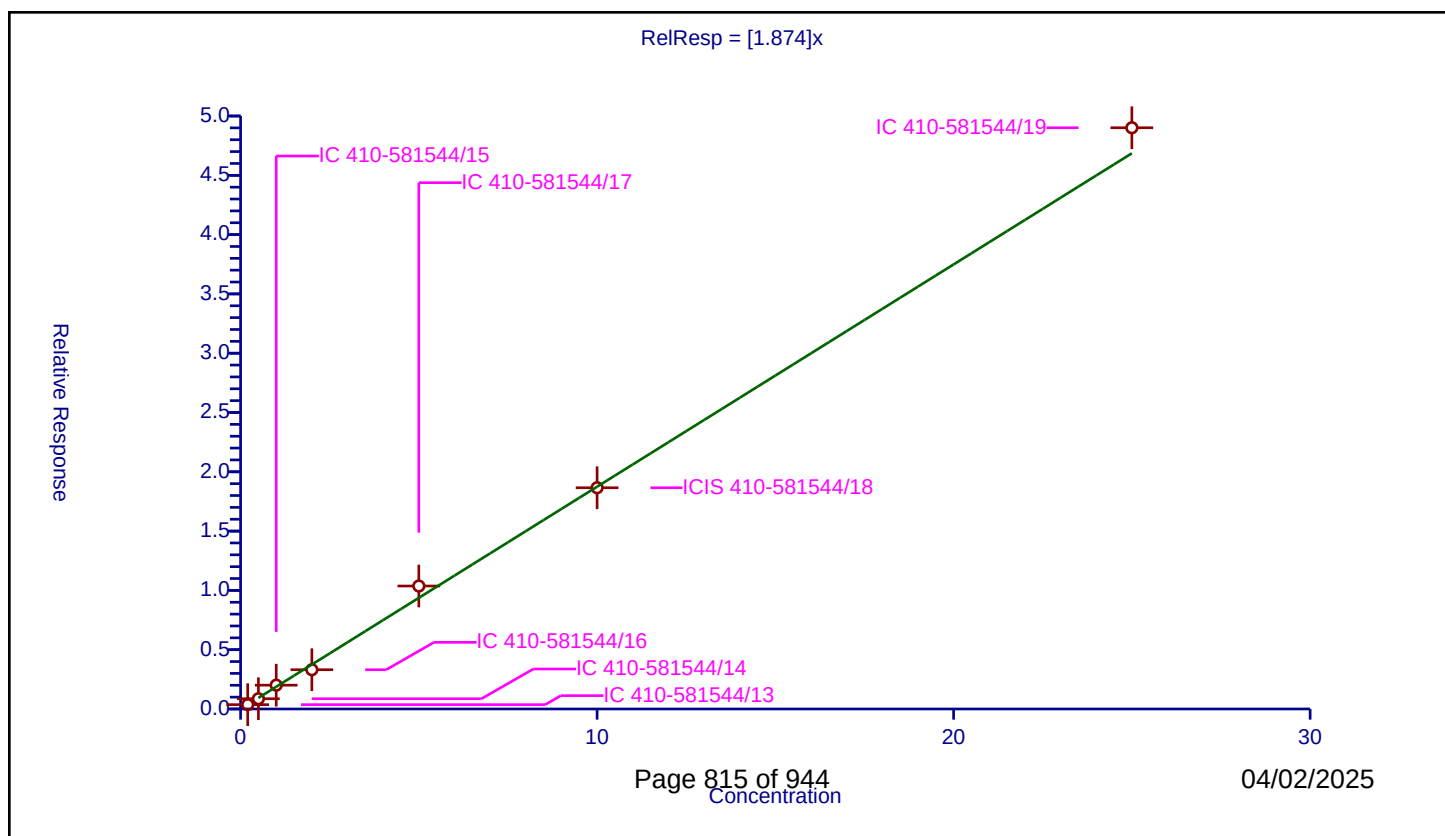
Curve Coefficients

Intercept: 0
Slope: 1.874

Error Coefficients

Relative Standard Deviation: 8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.365922	9.99966	1466082.0	1.82961	Y
2	IC 410-581544/14	0.5	0.863694	9.99966	1505979.0	1.727389	Y
3	IC 410-581544/15	1.0	2.00732	9.99966	1402135.0	2.00732	Y
4	IC 410-581544/16	2.0	3.311927	9.99966	1541126.0	1.655963	Y
5	IC 410-581544/17	5.0	10.368095	9.99966	1433964.0	2.073619	Y
6	ICIS 410-581544/18	10.0	18.655626	9.99966	1481835.0	1.865563	Y
7	IC 410-581544/19	25.0	49.010366	9.99966	1496577.0	1.960415	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

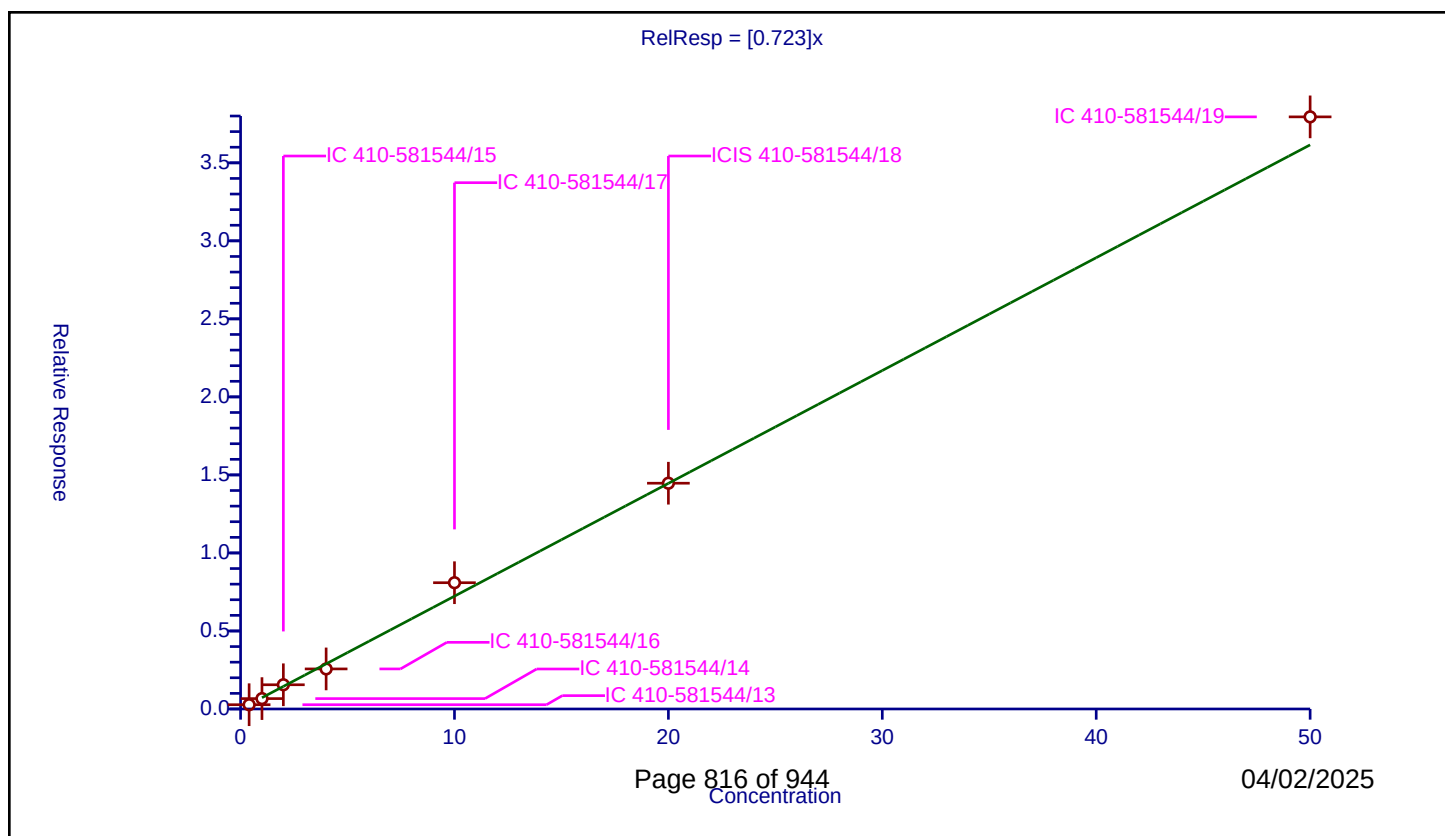
Curve Coefficients

Intercept: 0
 Slope: 0.723

Error Coefficients

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.4	0.274614	9.99966	1466082.0	0.686534	Y
2	IC 410-581544/14	1.0	0.665279	9.99966	1505979.0	0.665279	Y
3	IC 410-581544/15	2.0	1.552002	9.99966	1402135.0	0.776001	Y
4	IC 410-581544/16	4.0	2.567672	9.99966	1541126.0	0.641918	Y
5	IC 410-581544/17	10.0	8.091671	9.99966	1433964.0	0.809167	Y
6	ICIS 410-581544/18	20.0	14.467988	9.99966	1481835.0	0.723399	Y
7	IC 410-581544/19	50.0	37.945611	9.99966	1496577.0	0.758912	Y



Calibration

/ o-Xylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

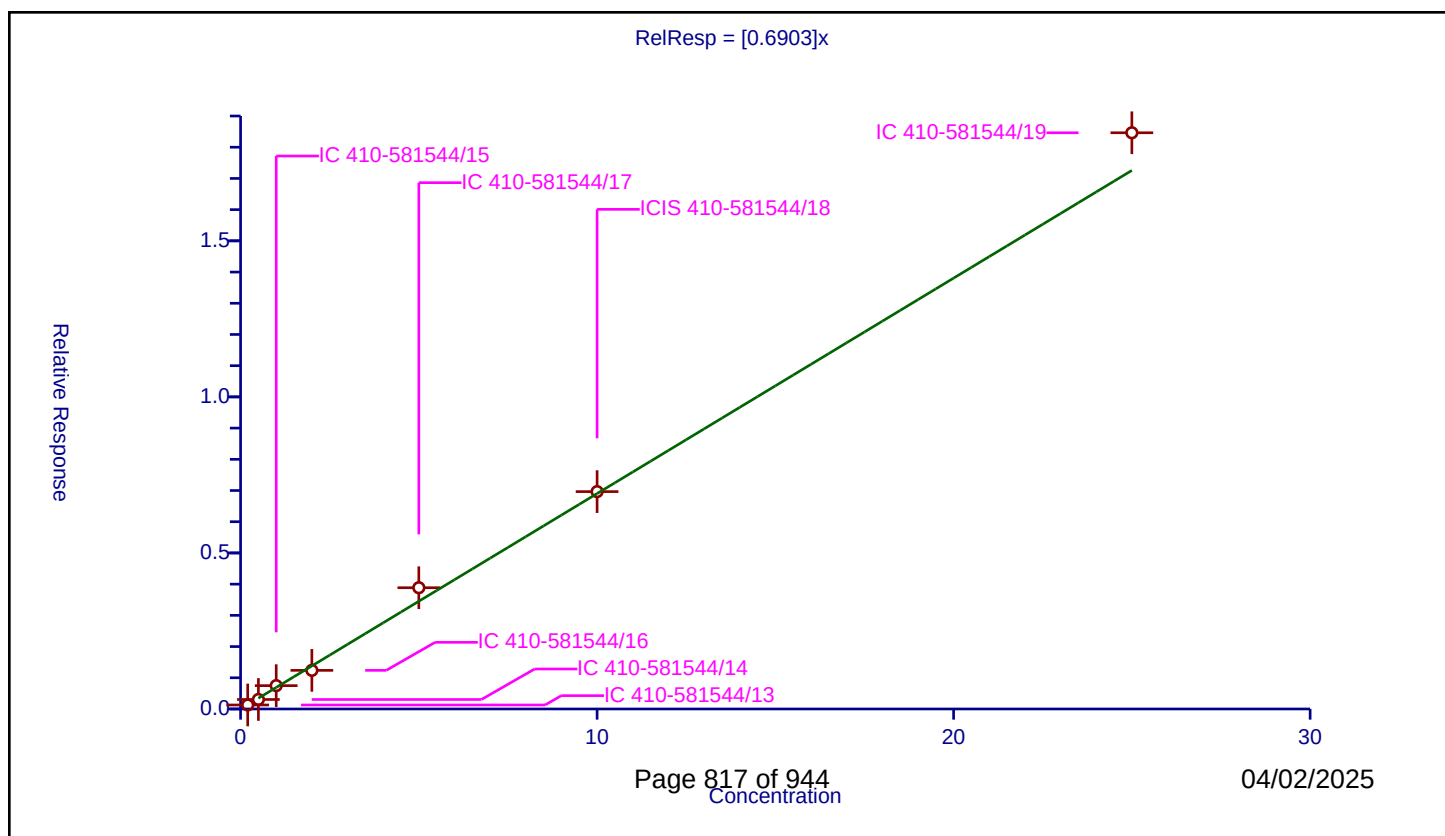
Curve Coefficients

Intercept: 0
Slope: 0.6903

Error Coefficients

Relative Standard Deviation: 9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.128979	9.99966	1466082.0	0.644894	Y
2	IC 410-581544/14	0.5	0.30421	9.99966	1505979.0	0.608421	Y
3	IC 410-581544/15	1.0	0.747677	9.99966	1402135.0	0.747677	Y
4	IC 410-581544/16	2.0	1.237352	9.99966	1541126.0	0.618676	Y
5	IC 410-581544/17	5.0	3.885991	9.99966	1433964.0	0.777198	Y
6	ICIS 410-581544/18	10.0	6.965363	9.99966	1481835.0	0.696536	Y
7	IC 410-581544/19	25.0	18.463173	9.99966	1496577.0	0.738527	Y



Calibration

/ Styrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

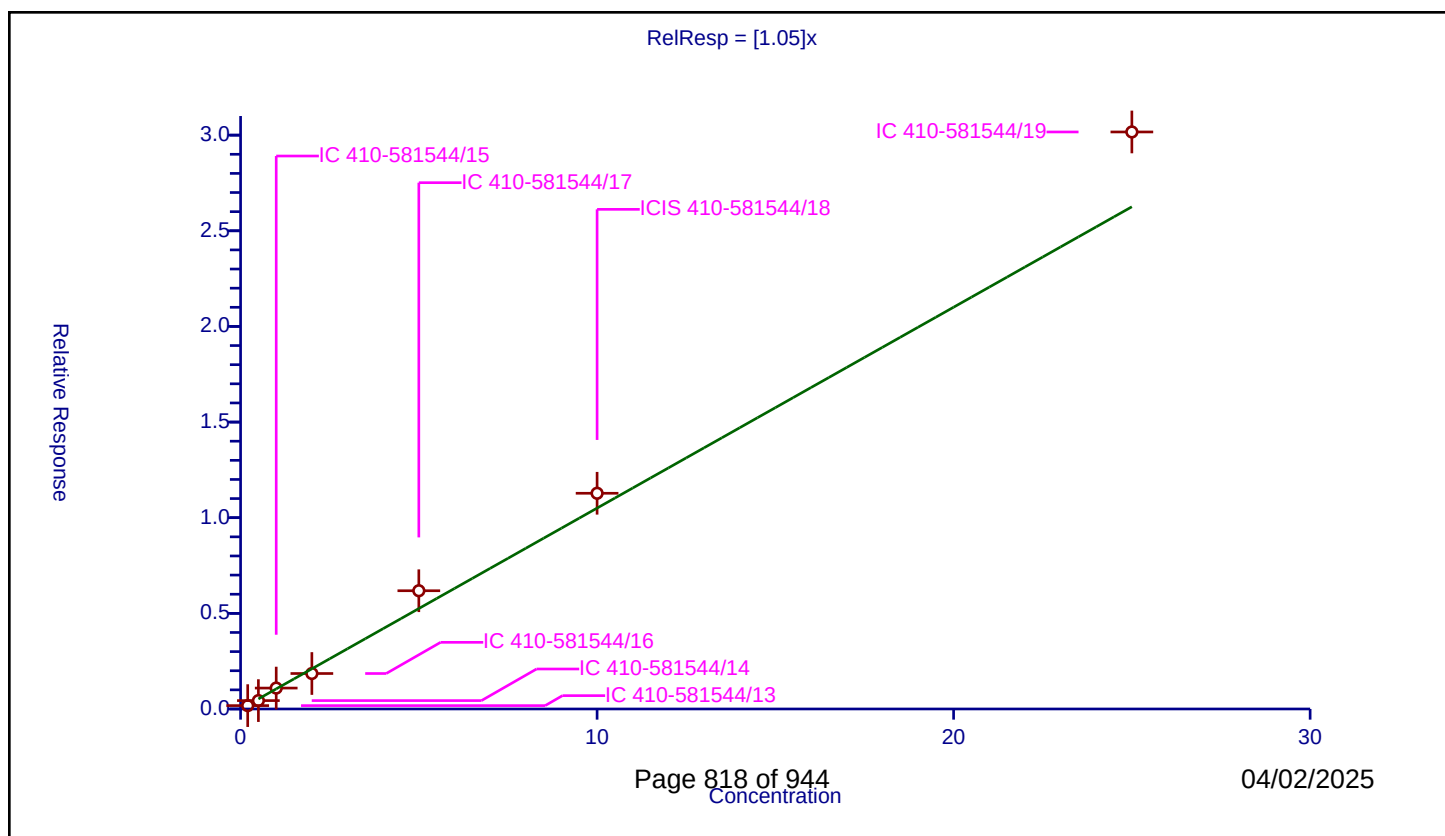
Curve Coefficients

Intercept: 0
Slope: 1.05

Error Coefficients

Relative Standard Deviation: 14.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.176423	9.99966	1466082.0	0.882117	Y
2	IC 410-581544/14	0.5	0.438643	9.99966	1505979.0	0.877287	Y
3	IC 410-581544/15	1.0	1.09403	9.99966	1402135.0	1.09403	Y
4	IC 410-581544/16	2.0	1.854471	9.99966	1541126.0	0.927235	Y
5	IC 410-581544/17	5.0	6.181612	9.99966	1433964.0	1.236322	Y
6	ICIS 410-581544/18	10.0	11.278106	9.99966	1481835.0	1.127811	Y
7	IC 410-581544/19	25.0	30.165909	9.99966	1496577.0	1.206636	Y



Calibration

/ Bromoform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

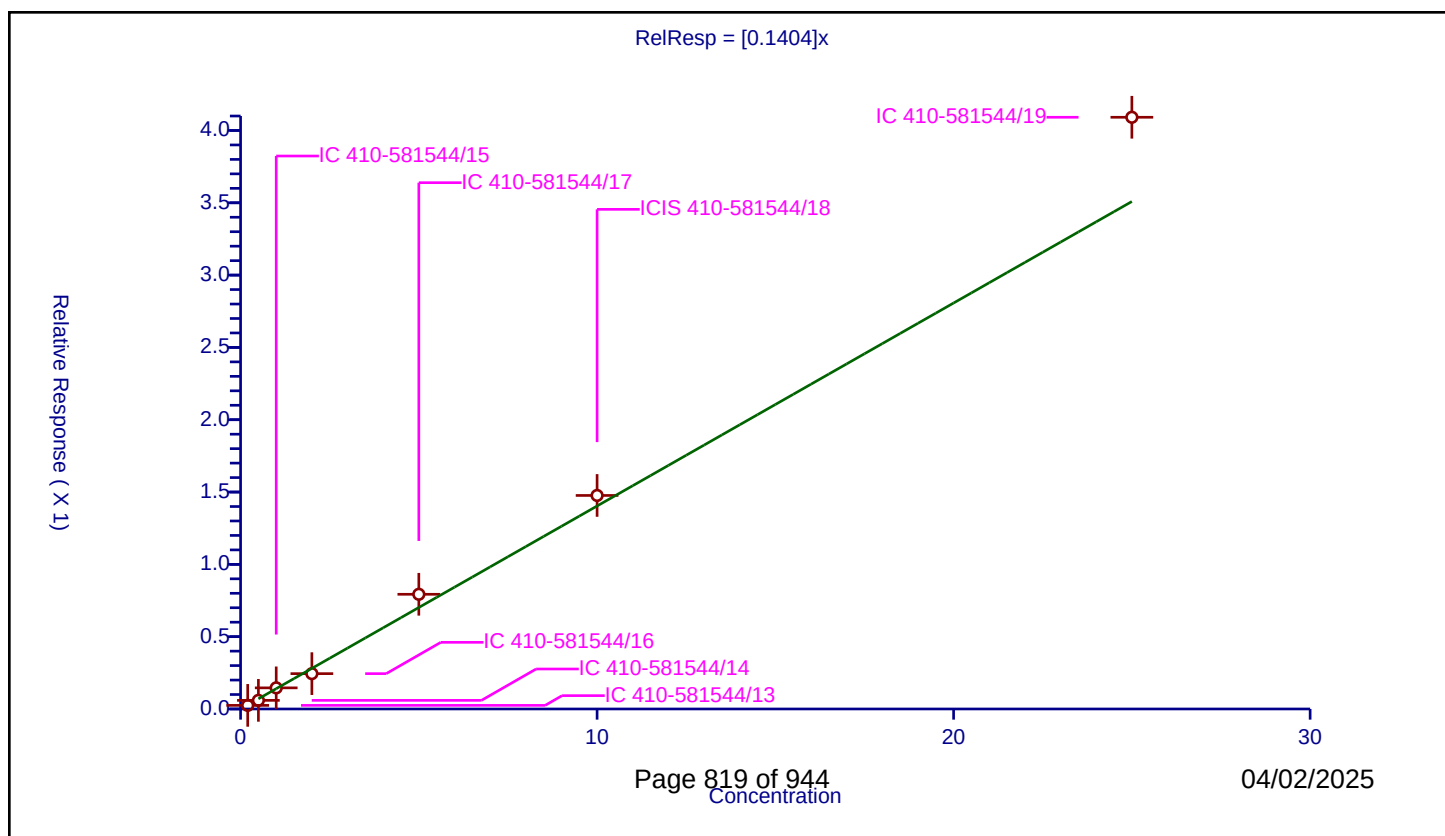
Curve Coefficients

Intercept: 0
Slope: 0.1404

Error Coefficients

Relative Standard Deviation: 12.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.024984	9.99966	1466082.0	0.124921	Y
2	IC 410-581544/14	0.5	0.05968	9.99966	1505979.0	0.11936	Y
3	IC 410-581544/15	1.0	0.146065	9.99966	1402135.0	0.146065	Y
4	IC 410-581544/16	2.0	0.244469	9.99966	1541126.0	0.122234	Y
5	IC 410-581544/17	5.0	0.793054	9.99966	1433964.0	0.158611	Y
6	ICIS 410-581544/18	10.0	1.476349	9.99966	1481835.0	0.147635	Y
7	IC 410-581544/19	25.0	4.091311	9.99966	1496577.0	0.163652	Y



Calibration

/ Isopropylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

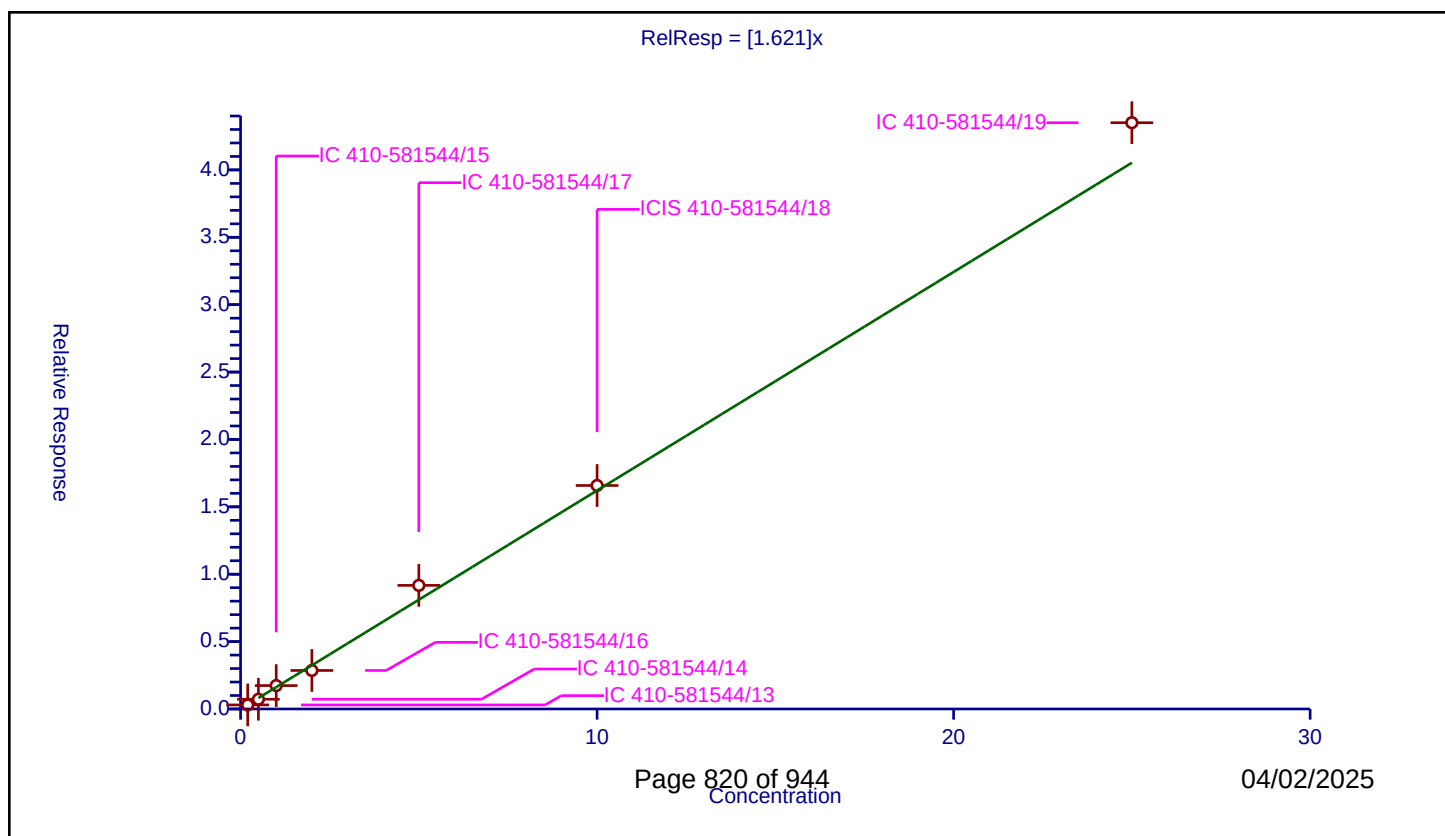
Curve Coefficients

Intercept: 0
Slope: 1.621

Error Coefficients

Relative Standard Deviation: 9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.301003	9.99966	1466082.0	1.505015	Y
2	IC 410-581544/14	0.5	0.722223	9.99966	1505979.0	1.444446	Y
3	IC 410-581544/15	1.0	1.737184	9.99966	1402135.0	1.737184	Y
4	IC 410-581544/16	2.0	2.858728	9.99966	1541126.0	1.429364	Y
5	IC 410-581544/17	5.0	9.17199	9.99966	1433964.0	1.834398	Y
6	ICIS 410-581544/18	10.0	16.58438	9.99966	1481835.0	1.658438	Y
7	IC 410-581544/19	25.0	43.502704	9.99966	1496577.0	1.740108	Y



Calibration

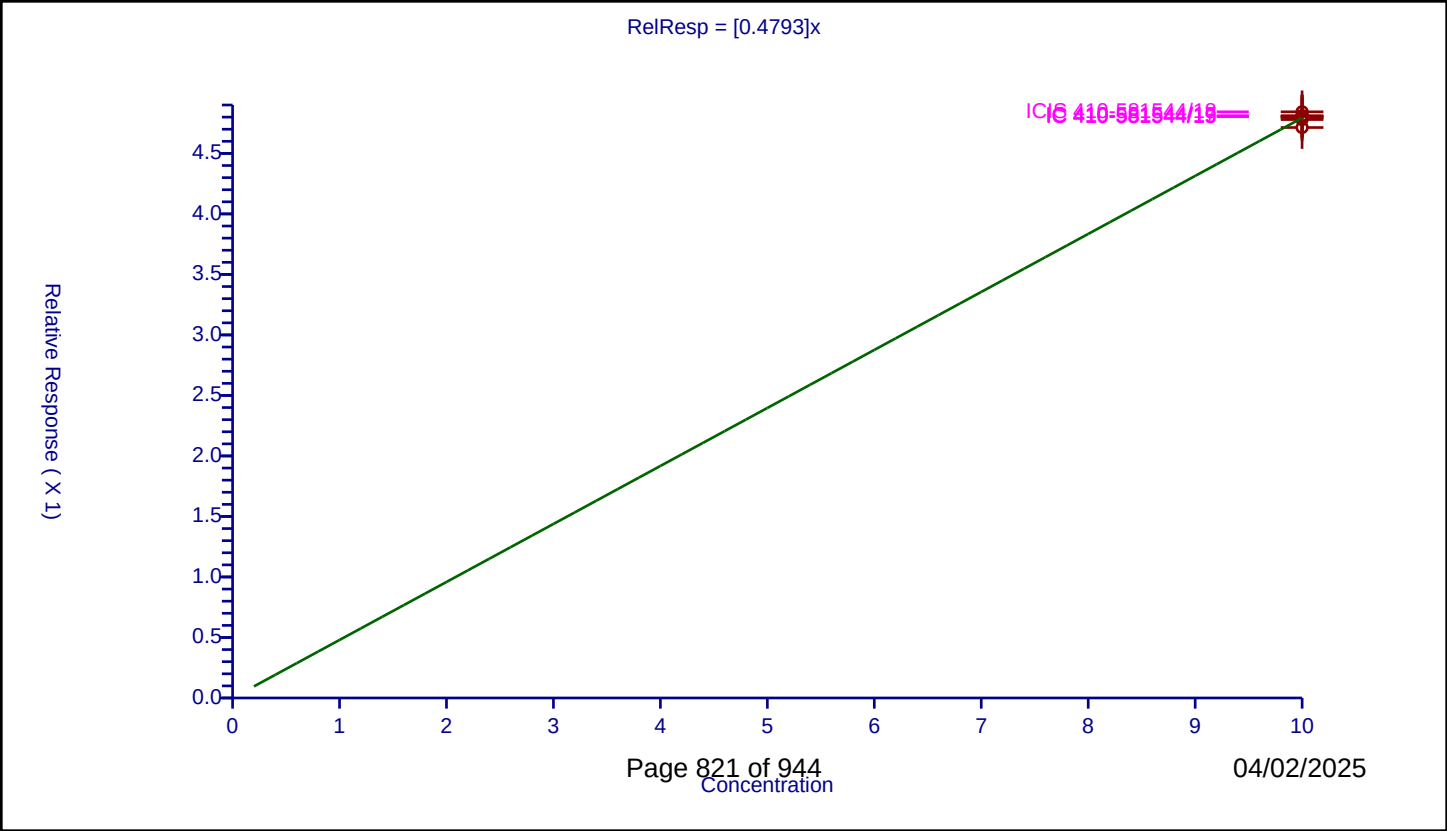
/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4793

Error Coefficients	
Relative Standard Deviation:	0.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	9.99966	4.714092	9.99966	1466082.0	0.471425	Y
2	IC 410-581544/14	9.99966	4.792334	9.99966	1505979.0	0.47925	Y
3	IC 410-581544/15	9.99966	4.804003	9.99966	1402135.0	0.480417	Y
4	IC 410-581544/16	9.99966	4.779985	9.99966	1541126.0	0.478015	Y
5	IC 410-581544/17	9.99966	4.80608	9.99966	1433964.0	0.480624	Y
6	ICIS 410-581544/18	9.99966	4.843735	9.99966	1481835.0	0.48439	Y
7	IC 410-581544/19	9.99966	4.811944	9.99966	1496577.0	0.481211	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

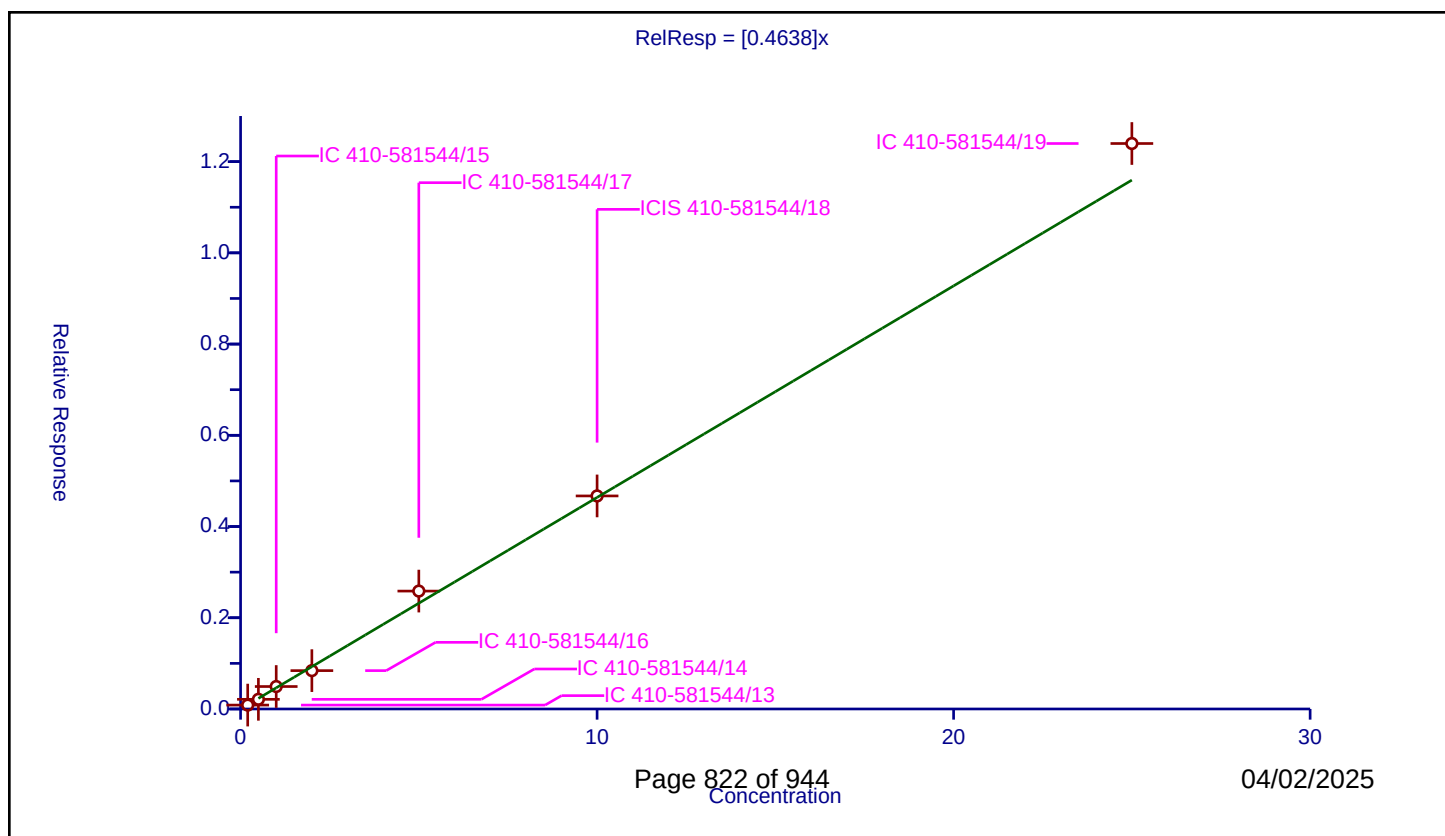
Curve Coefficients

Intercept: 0
Slope: 0.4638

Error Coefficients

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.085795	9.99966	787312.0	0.428977	Y
2	IC 410-581544/14	0.5	0.212212	9.99966	819154.0	0.424423	Y
3	IC 410-581544/15	1.0	0.49261	9.99966	755480.0	0.49261	Y
4	IC 410-581544/16	2.0	0.841253	9.99966	819702.0	0.420626	Y
5	IC 410-581544/17	5.0	2.58494	9.99966	763721.0	0.516988	Y
6	ICIS 410-581544/18	10.0	4.670778	9.99966	792188.0	0.467078	Y
7	IC 410-581544/19	25.0	12.397383	9.99966	784305.0	0.495895	Y



Calibration

/ Bromobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

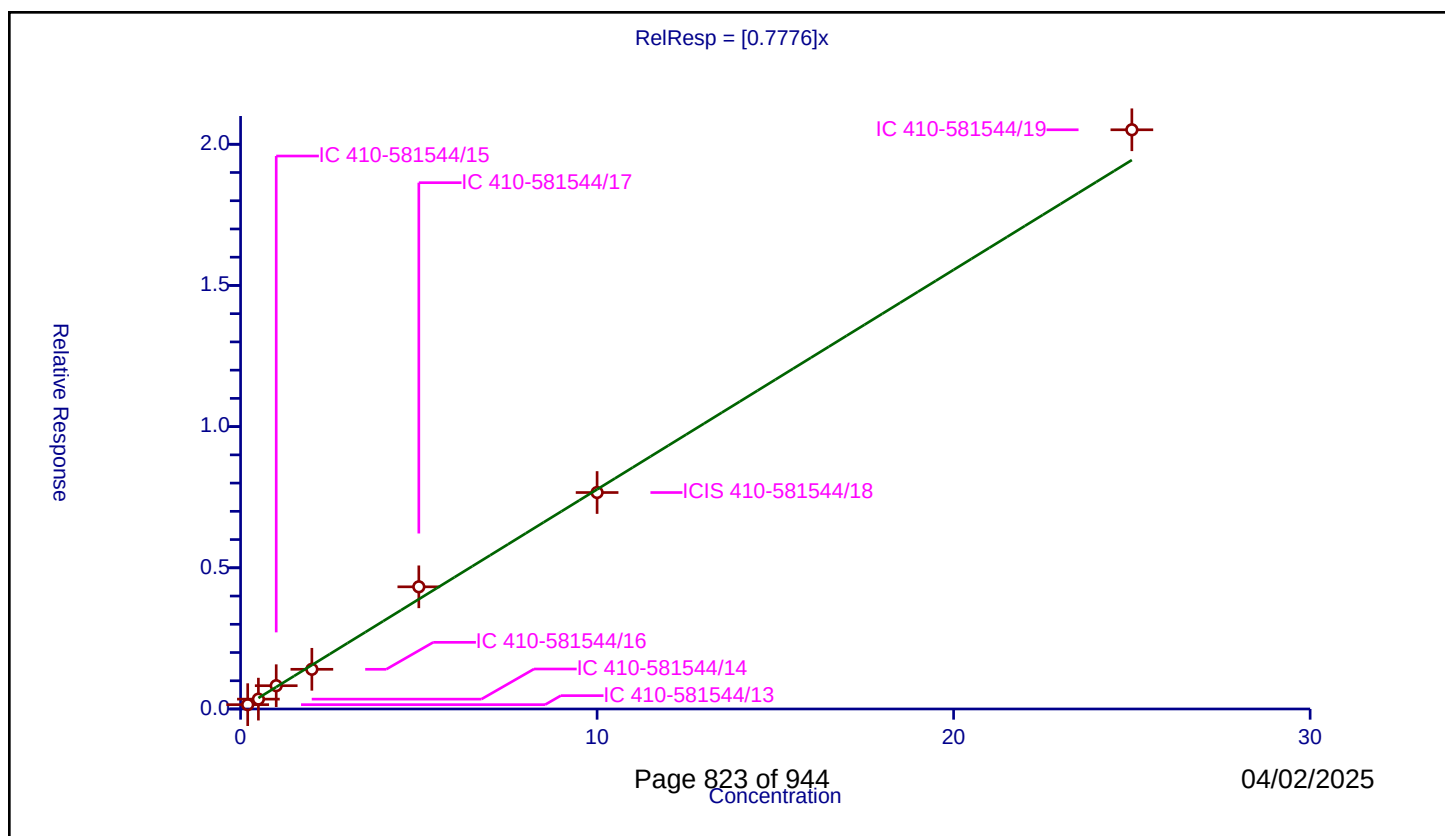
Curve Coefficients

Intercept: 0
 Slope: 0.7776

Error Coefficients

Relative Standard Deviation: 8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.153136	9.99966	787312.0	0.765681	Y
2	IC 410-581544/14	0.5	0.348848	9.99966	819154.0	0.697696	Y
3	IC 410-581544/15	1.0	0.824521	9.99966	755480.0	0.824521	Y
4	IC 410-581544/16	2.0	1.406036	9.99966	819702.0	0.703018	Y
5	IC 410-581544/17	5.0	4.327035	9.99966	763721.0	0.865407	Y
6	ICIS 410-581544/18	10.0	7.66624	9.99966	792188.0	0.766624	Y
7	IC 410-581544/19	25.0	20.512496	9.99966	784305.0	0.8205	Y



Calibration

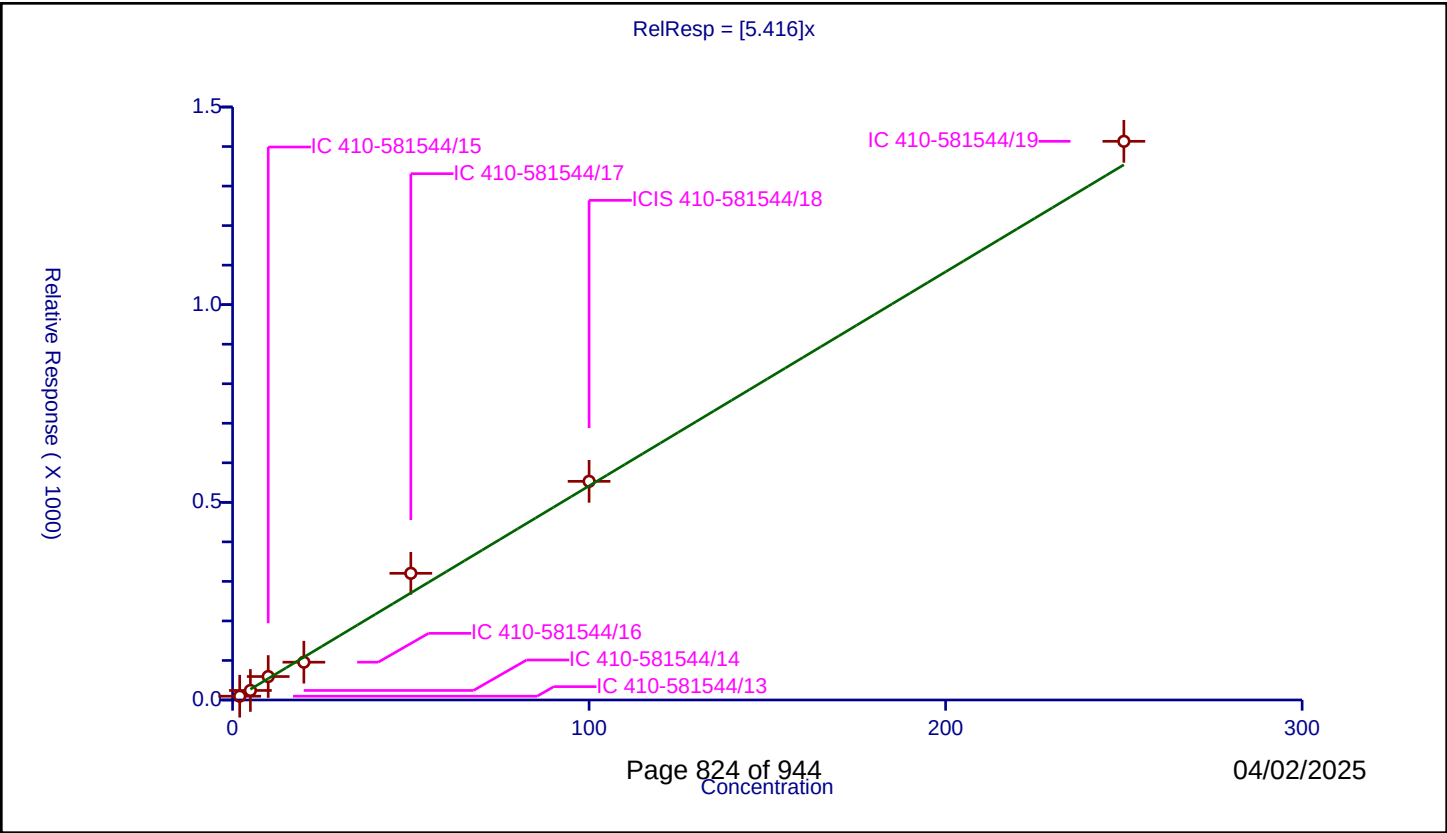
/ trans-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.416

Error Coefficients	
Relative Standard Deviation:	
	11.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	2.0	9.549146	49.9983	75156.0	4.774573	Y
2	IC 410-581544/14	5.0	24.119128	49.9983	78234.0	4.823826	Y
3	IC 410-581544/15	10.0	59.347685	49.9983	70537.0	5.934769	Y
4	IC 410-581544/16	20.0	95.648631	49.9983	82323.0	4.782432	Y
5	IC 410-581544/17	50.0	320.460886	49.9983	72915.0	6.409218	Y
6	ICIS 410-581544/18	100.0	553.103477	49.9983	80518.0	5.531035	Y
7	IC 410-581544/19	250.0	1413.279813	49.9983	85355.0	5.653119	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

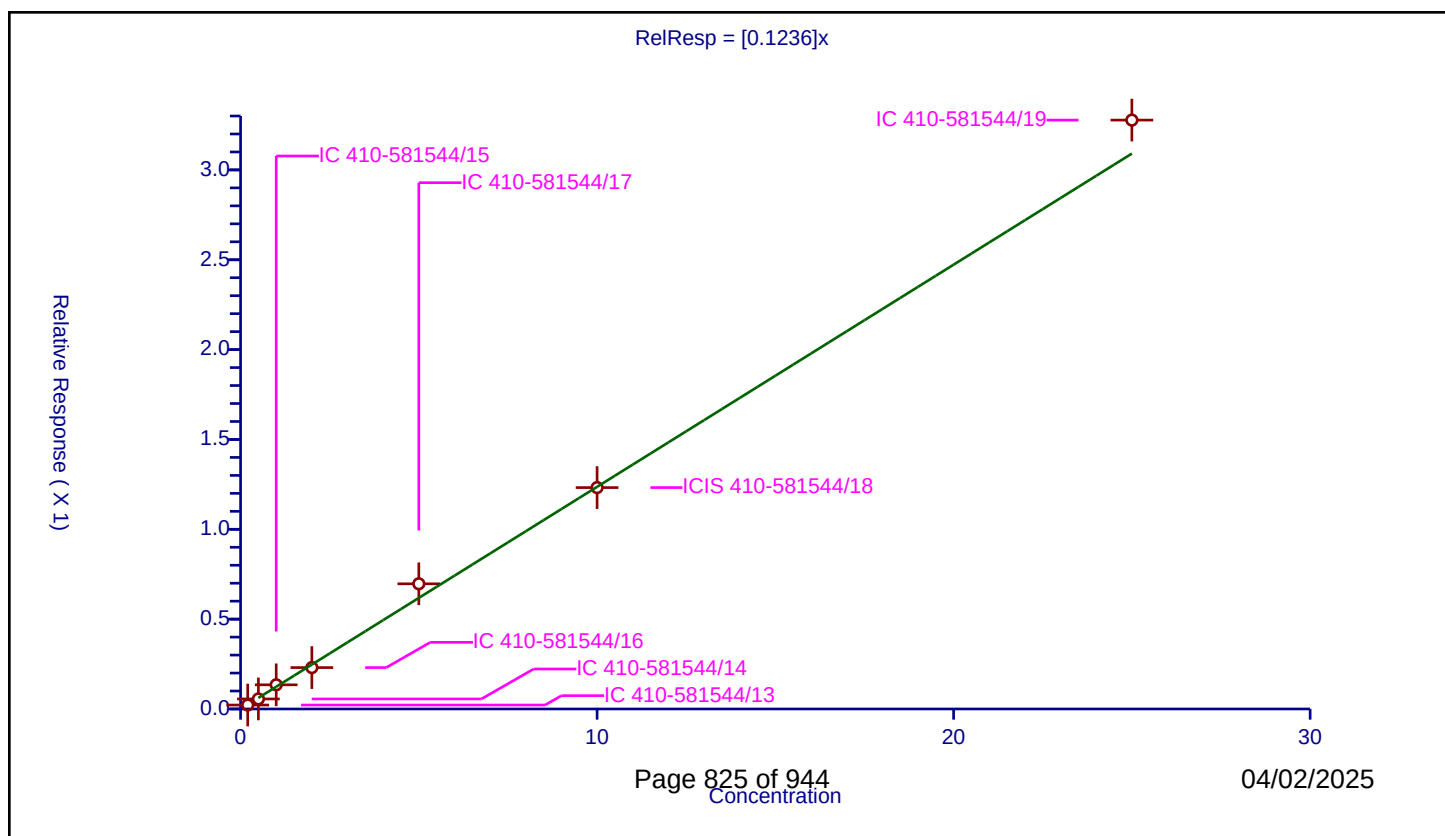
Curve Coefficients

Intercept: 0
Slope: 0.1236

Error Coefficients

Relative Standard Deviation: 9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.022087	9.99966	787312.0	0.110435	Y
2	IC 410-581544/14	0.5	0.055861	9.99966	819154.0	0.111721	Y
3	IC 410-581544/15	1.0	0.134479	9.99966	755480.0	0.134479	Y
4	IC 410-581544/16	2.0	0.230332	9.99966	819702.0	0.115166	Y
5	IC 410-581544/17	5.0	0.69671	9.99966	763721.0	0.139342	Y
6	ICIS 410-581544/18	10.0	1.23209	9.99966	792188.0	0.123209	Y
7	IC 410-581544/19	25.0	3.277364	9.99966	784305.0	0.131095	Y



Calibration

/ N-Propylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

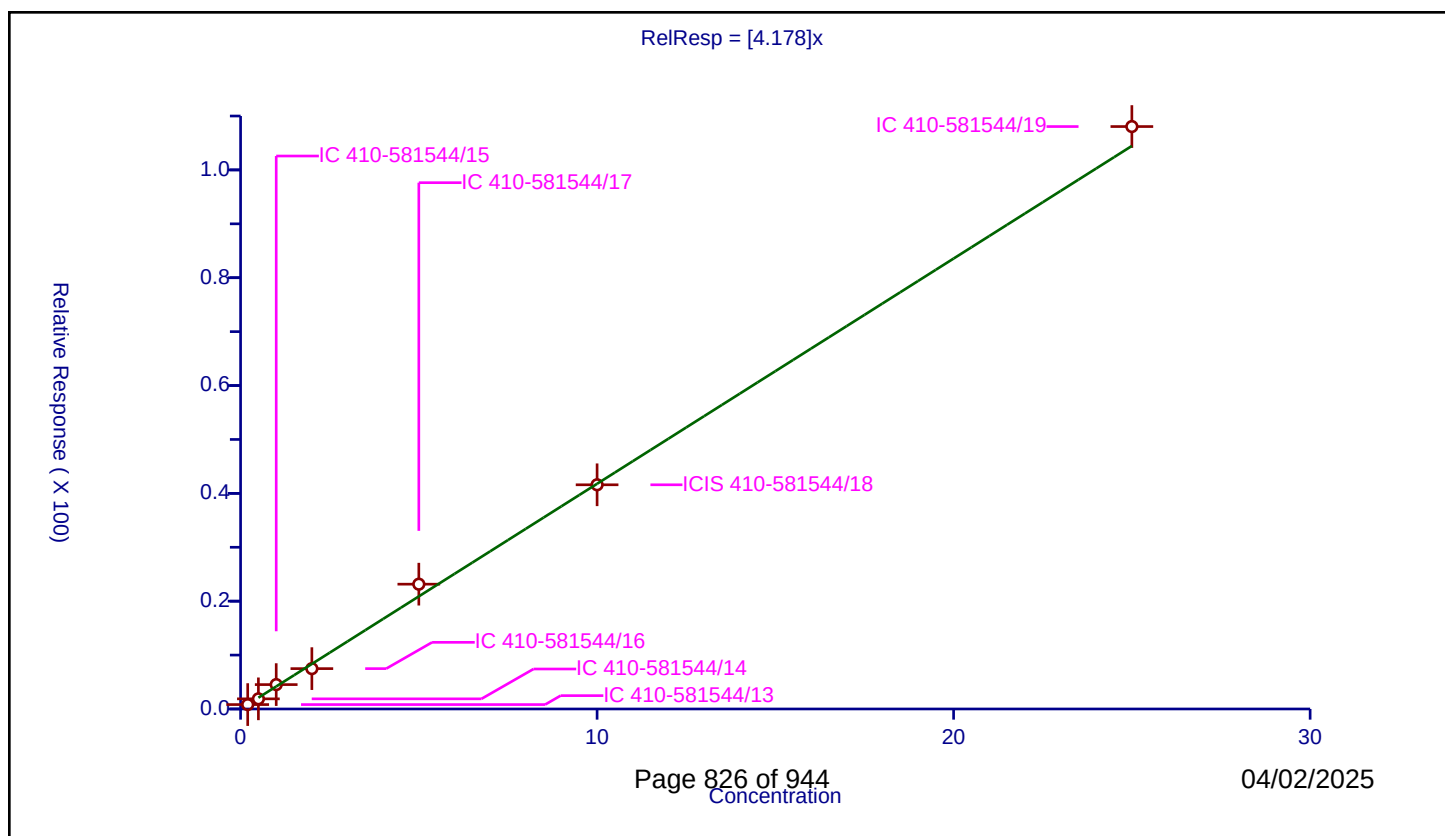
Curve Coefficients

Intercept: 0
Slope: 4.178

Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.820943	9.99966	787312.0	4.104713	Y
2	IC 410-581544/14	0.5	1.881109	9.99966	819154.0	3.762217	Y
3	IC 410-581544/15	1.0	4.523672	9.99966	755480.0	4.523672	Y
4	IC 410-581544/16	2.0	7.4866	9.99966	819702.0	3.7433	Y
5	IC 410-581544/17	5.0	23.153008	9.99966	763721.0	4.630602	Y
6	ICIS 410-581544/18	10.0	41.59168	9.99966	792188.0	4.159168	Y
7	IC 410-581544/19	25.0	108.047136	9.99966	784305.0	4.321885	Y



Calibration

/ 2-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

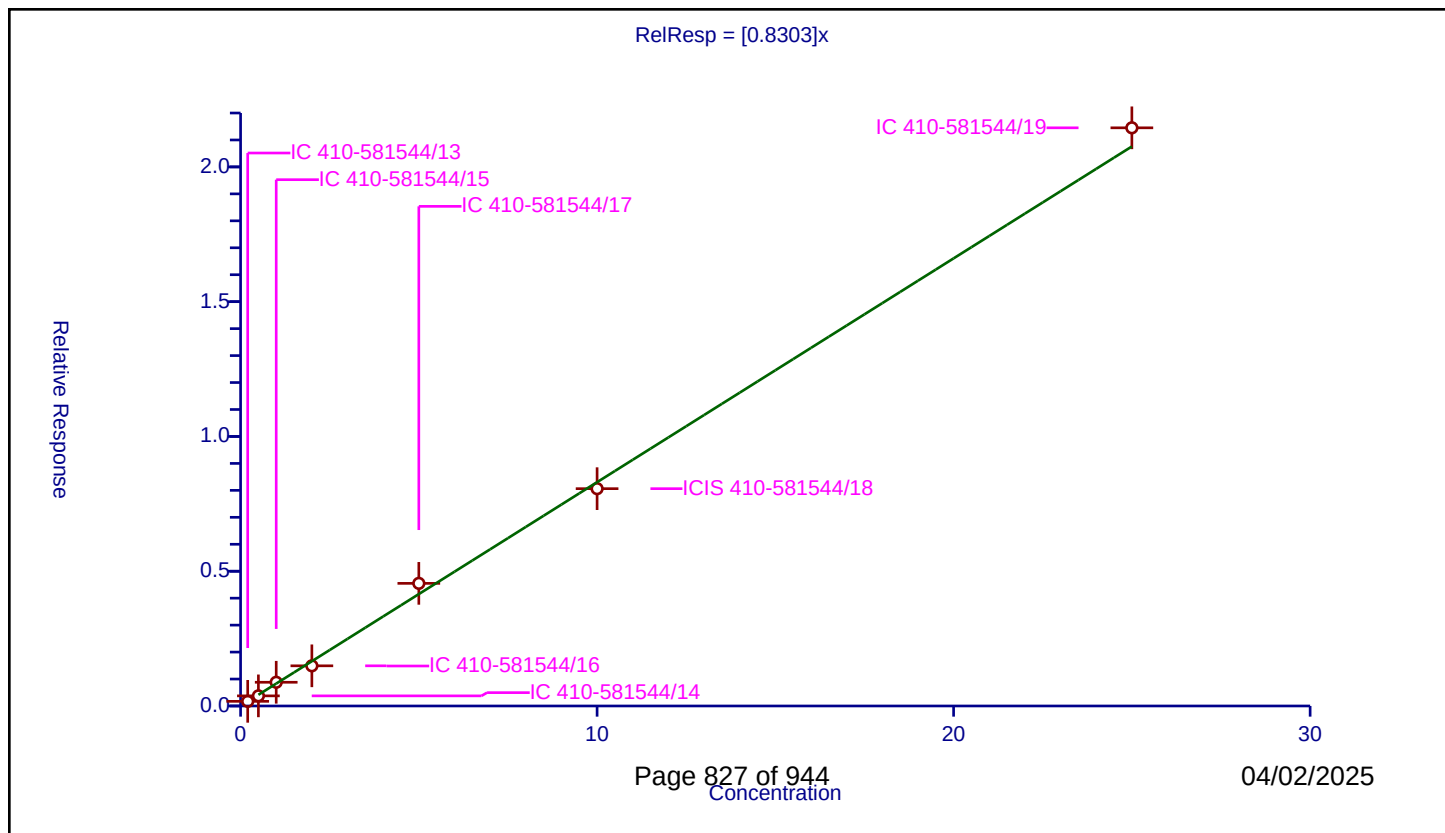
Curve Coefficients

Intercept: 0
Slope: 0.8303

Error Coefficients

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.172442	9.99966	787312.0	0.862208	Y
2	IC 410-581544/14	0.5	0.375631	9.99966	819154.0	0.751262	Y
3	IC 410-581544/15	1.0	0.879676	9.99966	755480.0	0.879676	Y
4	IC 410-581544/16	2.0	1.490101	9.99966	819702.0	0.74505	Y
5	IC 410-581544/17	5.0	4.549543	9.99966	763721.0	0.909909	Y
6	ICIS 410-581544/18	10.0	8.063077	9.99966	792188.0	0.806308	Y
7	IC 410-581544/19	25.0	21.450658	9.99966	784305.0	0.858026	Y



Calibration

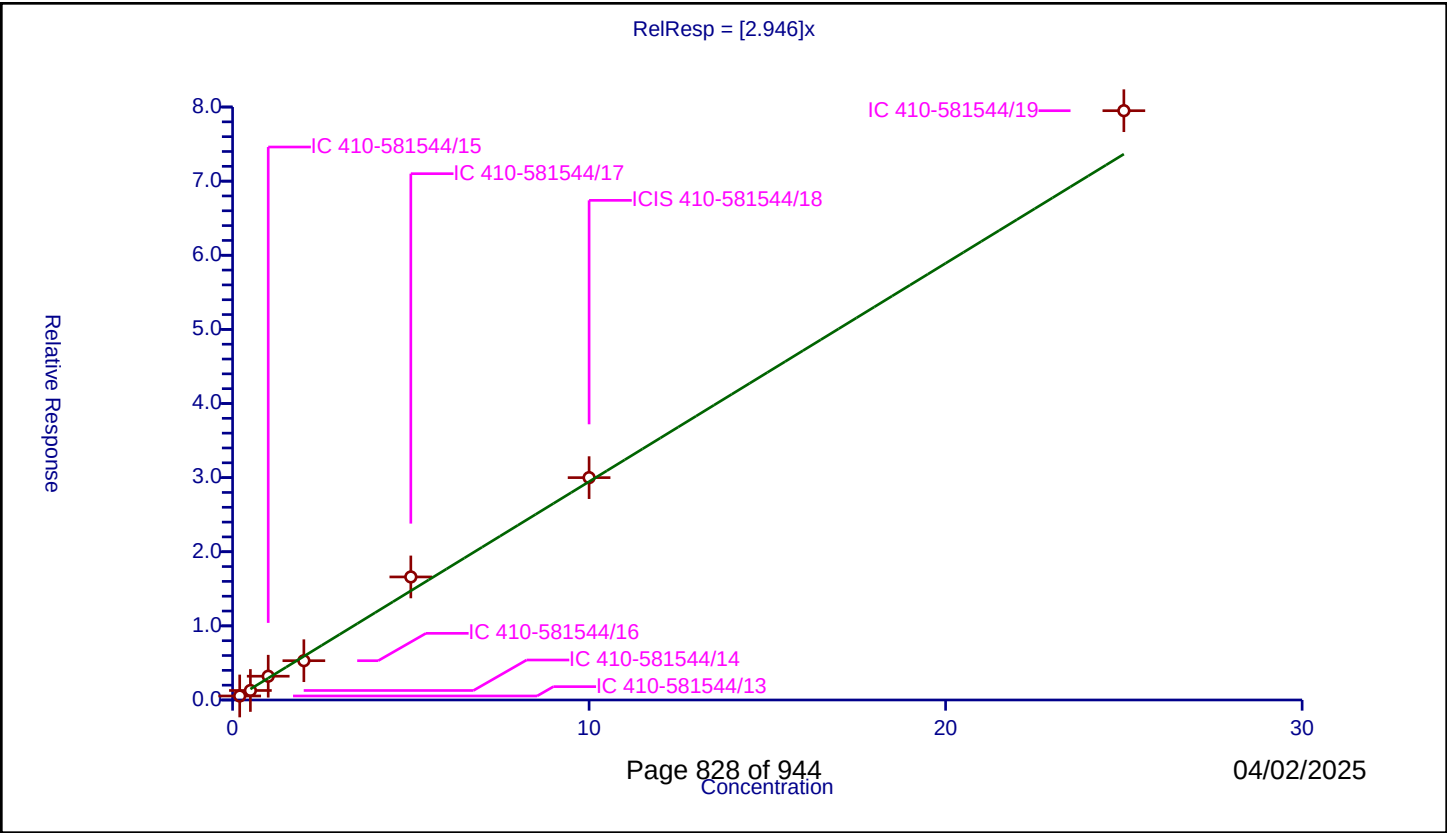
/ 1,3,5-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.946
Error Coefficients	

Relative Standard Deviation: 10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.54006	9.99966	787312.0	2.700299	Y
2	IC 410-581544/14	0.5	1.282328	9.99966	819154.0	2.564656	Y
3	IC 410-581544/15	1.0	3.205641	9.99966	755480.0	3.205641	Y
4	IC 410-581544/16	2.0	5.300392	9.99966	819702.0	2.650196	Y
5	IC 410-581544/17	5.0	16.600668	9.99966	763721.0	3.320134	Y
6	ICIS 410-581544/18	10.0	29.998803	9.99966	792188.0	2.99988	Y
7	IC 410-581544/19	25.0	79.501928	9.99966	784305.0	3.180077	Y



Calibration

/ 4-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

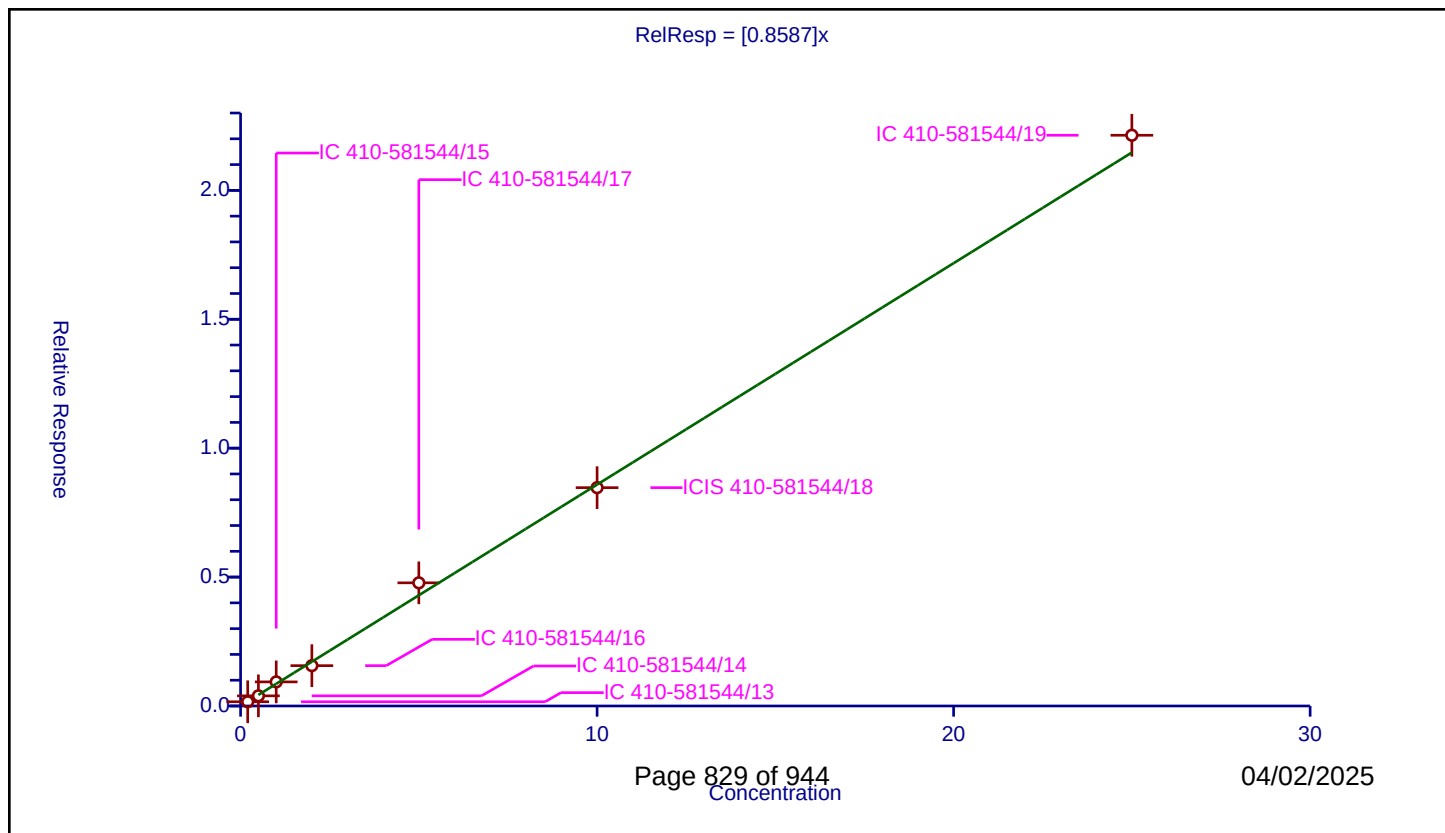
Curve Coefficients

Intercept: 0
Slope: 0.8587

Error Coefficients

Relative Standard Deviation: 8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.163919	9.99966	787312.0	0.819596	Y
2	IC 410-581544/14	0.5	0.393612	9.99966	819154.0	0.787224	Y
3	IC 410-581544/15	1.0	0.934606	9.99966	755480.0	0.934606	Y
4	IC 410-581544/16	2.0	1.56393	9.99966	819702.0	0.781965	Y
5	IC 410-581544/17	5.0	4.776608	9.99966	763721.0	0.955322	Y
6	ICIS 410-581544/18	10.0	8.469027	9.99966	792188.0	0.846903	Y
7	IC 410-581544/19	25.0	22.137637	9.99966	784305.0	0.885505	Y



Calibration

/ tert-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

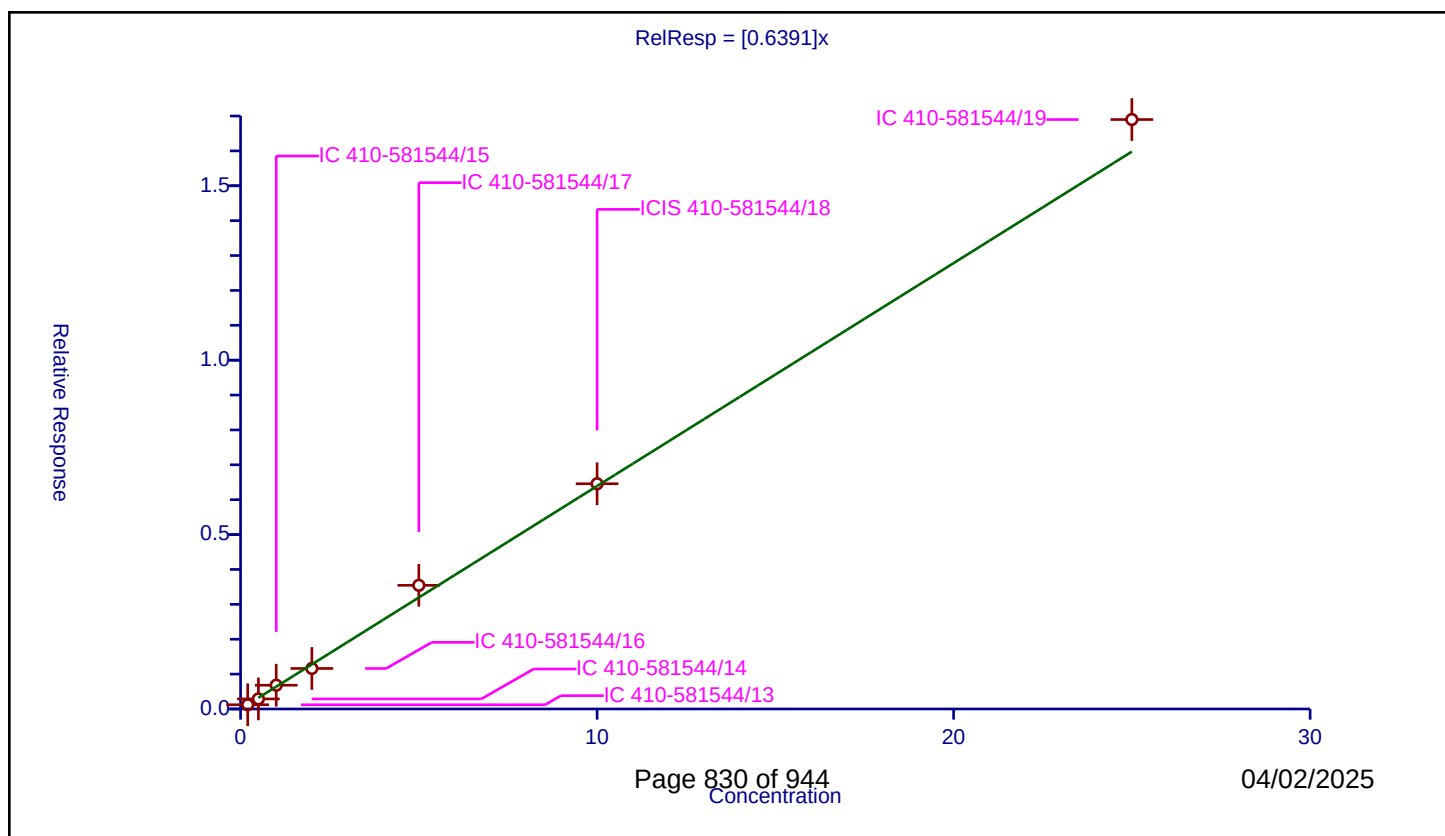
Curve Coefficients

Intercept: 0
Slope: 0.6391

Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.12085	9.99966	787312.0	0.604251	Y
2	IC 410-581544/14	0.5	0.288263	9.99966	819154.0	0.576526	Y
3	IC 410-581544/15	1.0	0.681411	9.99966	755480.0	0.681411	Y
4	IC 410-581544/16	2.0	1.161785	9.99966	819702.0	0.580893	Y
5	IC 410-581544/17	5.0	3.545703	9.99966	763721.0	0.709141	Y
6	ICIS 410-581544/18	10.0	6.457465	9.99966	792188.0	0.645746	Y
7	IC 410-581544/19	25.0	16.899343	9.99966	784305.0	0.675974	Y



Calibration

/ Pentachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

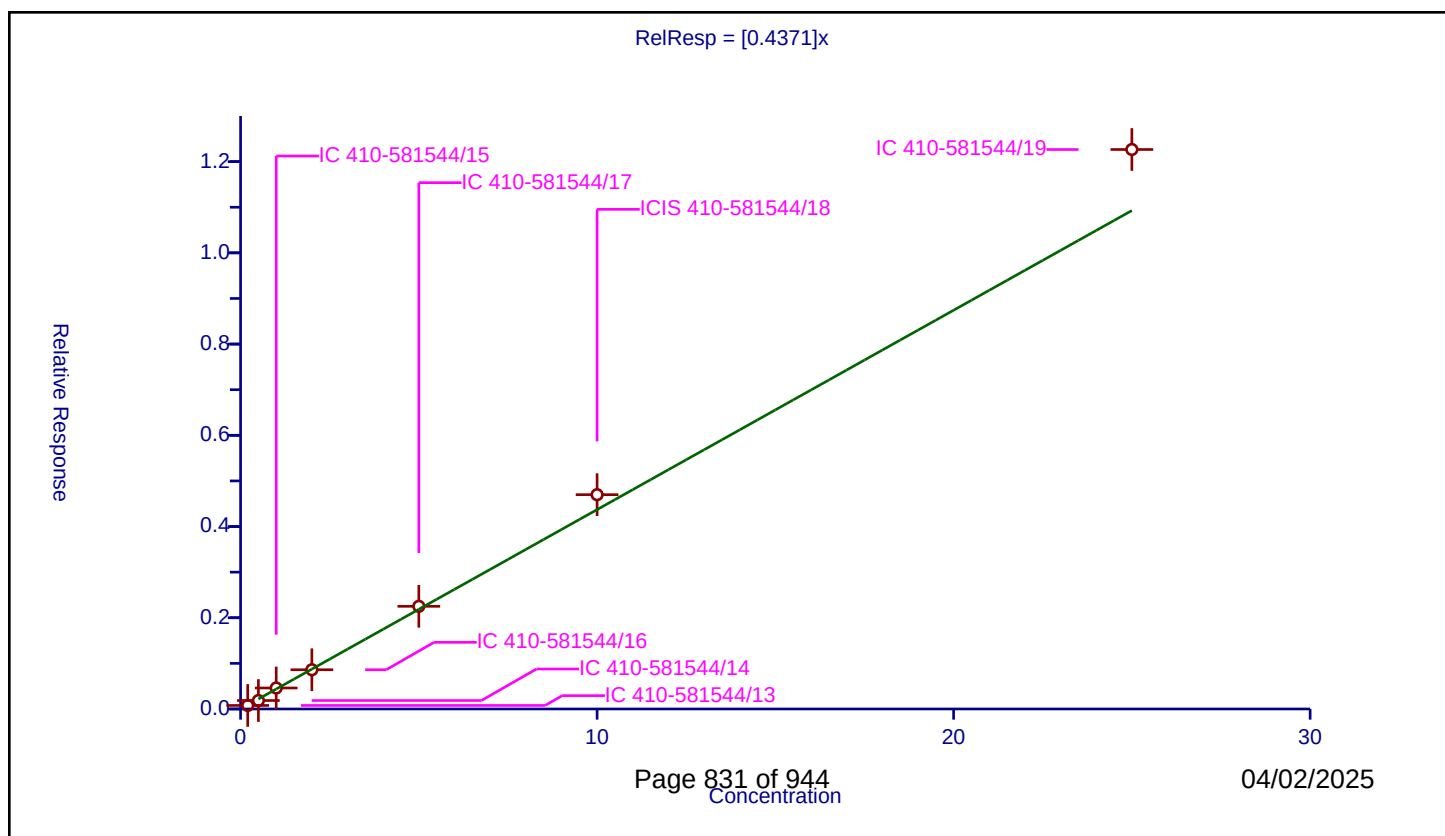
Curve Coefficients

Intercept: 0
Slope: 0.4371

Error Coefficients

Relative Standard Deviation: 10.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.077413	9.99966	787312.0	0.387063	Y
2	IC 410-581544/14	0.5	0.185661	9.99966	819154.0	0.371322	Y
3	IC 410-581544/15	1.0	0.460645	9.99966	755480.0	0.460645	Y
4	IC 410-581544/16	2.0	0.860149	9.99966	819702.0	0.430075	Y
5	IC 410-581544/17	5.0	2.251361	9.99966	763721.0	0.450272	Y
6	ICIS 410-581544/18	10.0	4.698043	9.99966	792188.0	0.469804	Y
7	IC 410-581544/19	25.0	12.265423	9.99966	784305.0	0.490617	Y



Calibration

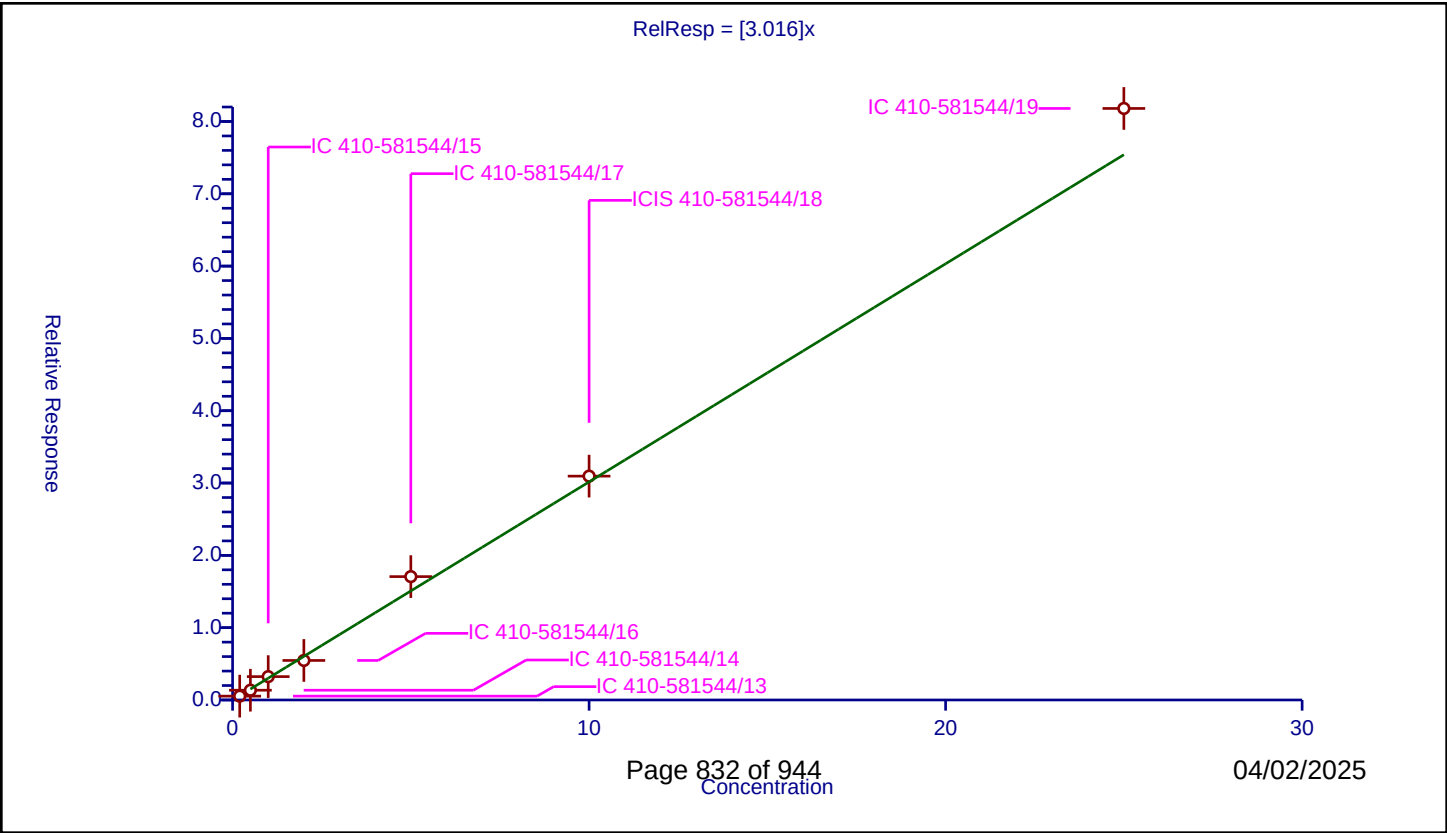
/ 1,2,4-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.016
Error Coefficients	

Relative Standard Deviation: 10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.532985	9.99966	787312.0	2.664927	Y
2	IC 410-581544/14	0.5	1.35119	9.99966	819154.0	2.702379	Y
3	IC 410-581544/15	1.0	3.232378	9.99966	755480.0	3.232378	Y
4	IC 410-581544/16	2.0	5.465947	9.99966	819702.0	2.732973	Y
5	IC 410-581544/17	5.0	17.062156	9.99966	763721.0	3.412431	Y
6	ICIS 410-581544/18	10.0	30.955122	9.99966	792188.0	3.095512	Y
7	IC 410-581544/19	25.0	81.802358	9.99966	784305.0	3.272094	Y



Calibration

/ sec-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

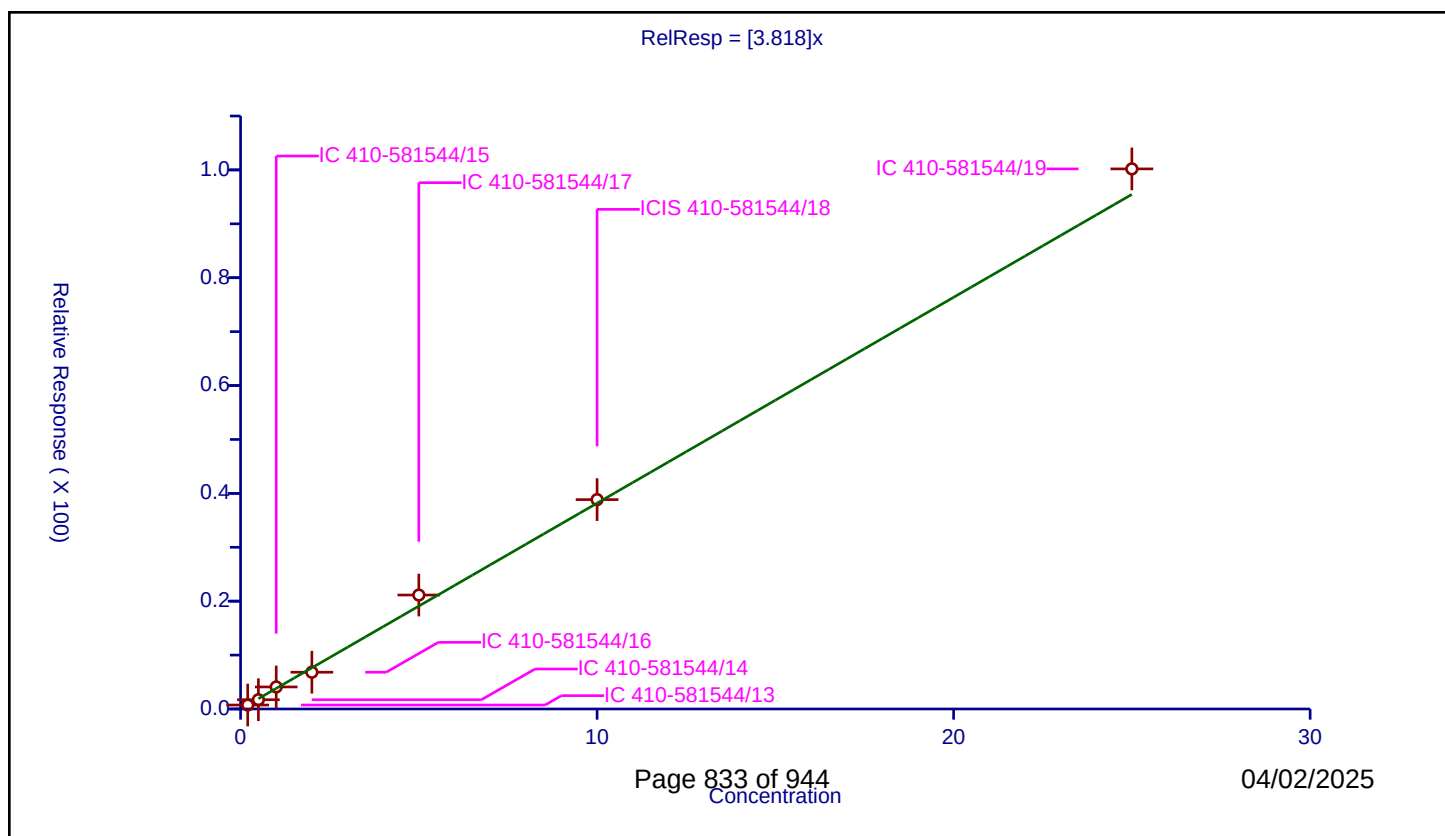
Curve Coefficients

Intercept: 0
Slope: 3.818

Error Coefficients

Relative Standard Deviation: 8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.734779	9.99966	787312.0	3.673895	Y
2	IC 410-581544/14	0.5	1.717763	9.99966	819154.0	3.435525	Y
3	IC 410-581544/15	1.0	4.090201	9.99966	755480.0	4.090201	Y
4	IC 410-581544/16	2.0	6.818966	9.99966	819702.0	3.409483	Y
5	IC 410-581544/17	5.0	21.140928	9.99966	763721.0	4.228186	Y
6	ICIS 410-581544/18	10.0	38.840356	9.99966	792188.0	3.884036	Y
7	IC 410-581544/19	25.0	100.192066	9.99966	784305.0	4.007683	Y



Calibration

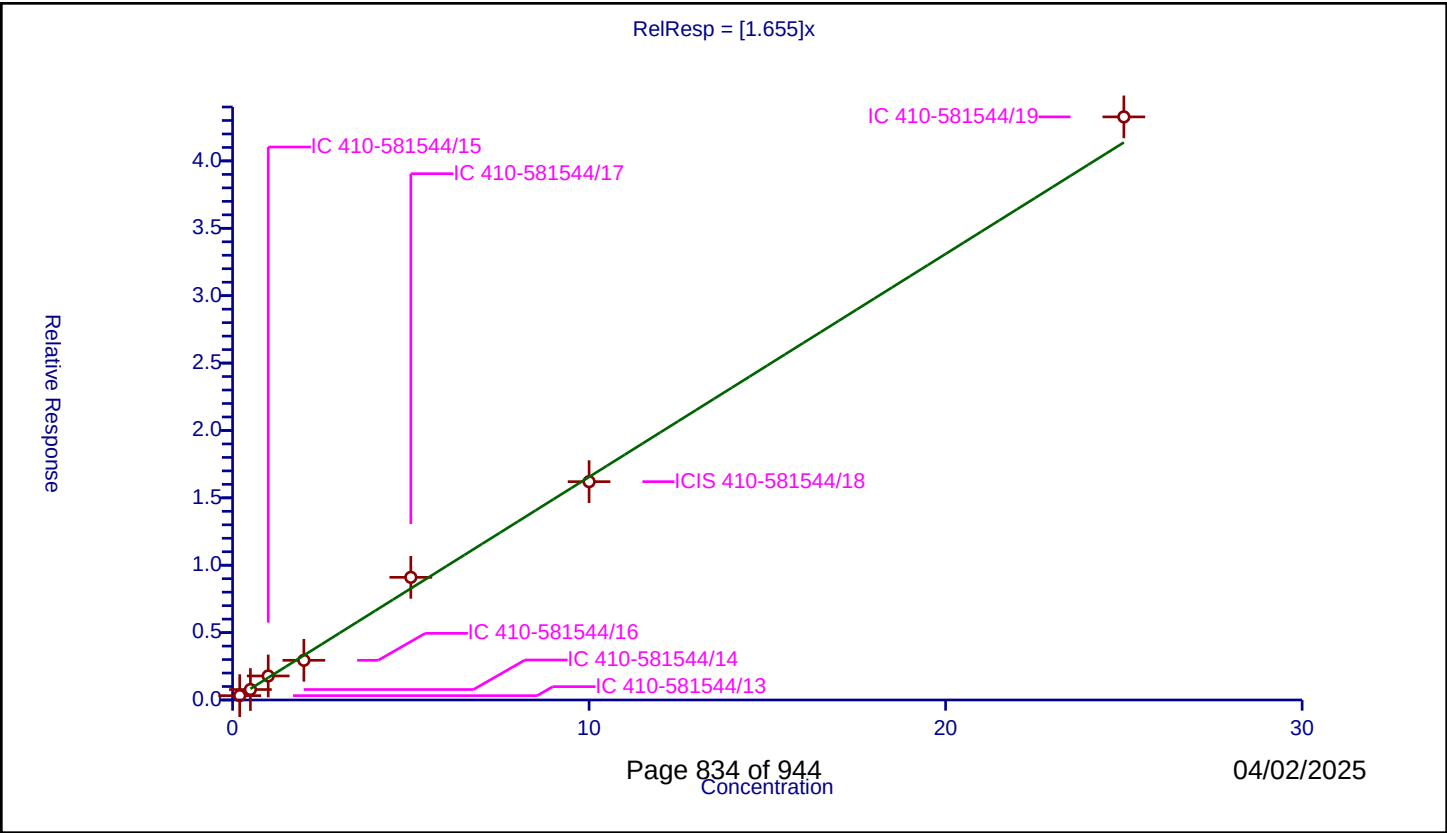
/ 1,3-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.655
Error Coefficients	

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.320853	9.99966	787312.0	1.604265	Y
2	IC 410-581544/14	0.5	0.776311	9.99966	819154.0	1.552622	Y
3	IC 410-581544/15	1.0	1.78356	9.99966	755480.0	1.78356	Y
4	IC 410-581544/16	2.0	2.945726	9.99966	819702.0	1.472863	Y
5	IC 410-581544/17	5.0	9.101404	9.99966	763721.0	1.820281	Y
6	ICIS 410-581544/18	10.0	16.200149	9.99966	792188.0	1.620015	Y
7	IC 410-581544/19	25.0	43.266964	9.99966	784305.0	1.730679	Y



Calibration

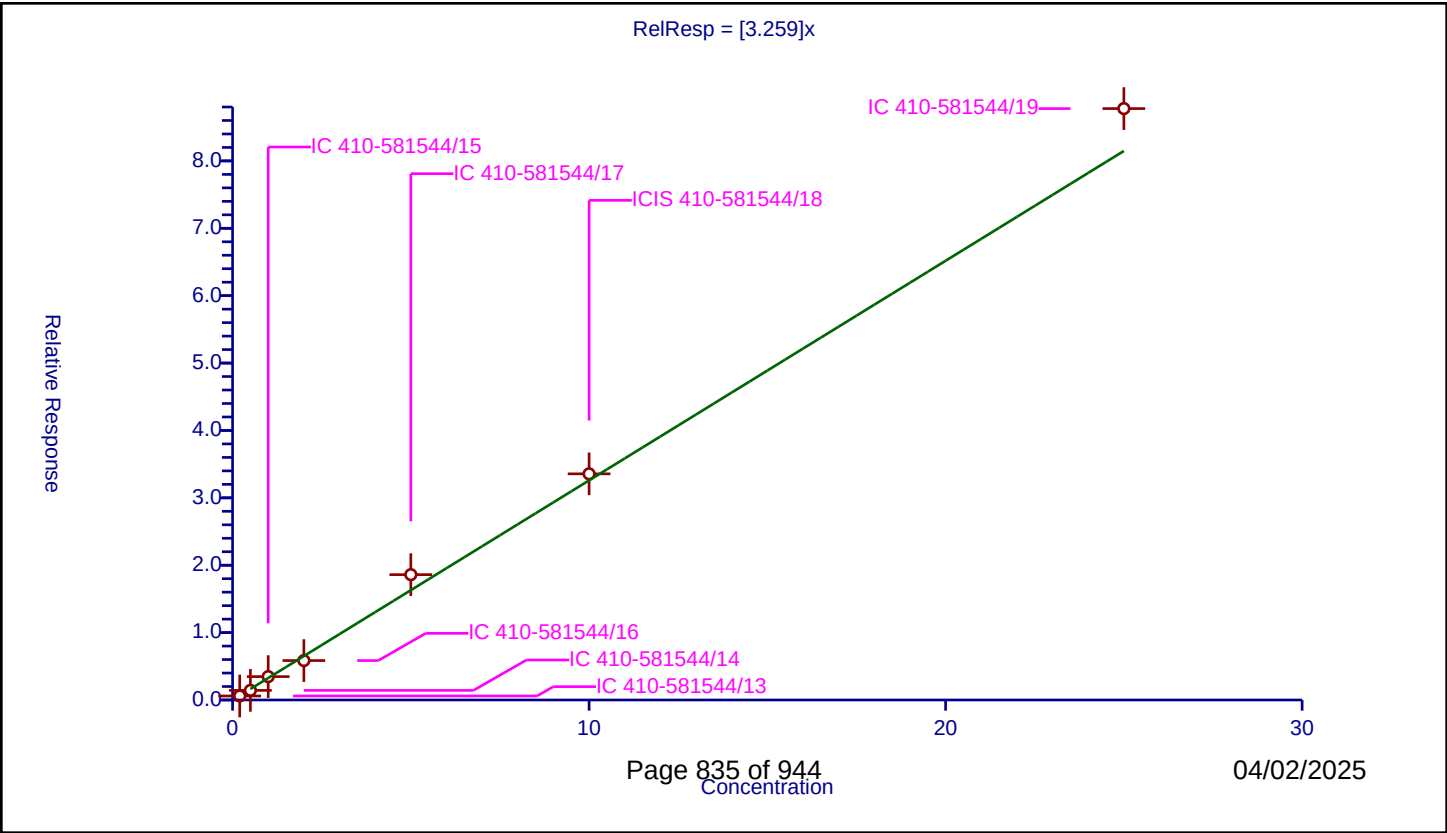
/ 4-Isopropyltoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.259
Error Coefficients	

Relative Standard Deviation: 10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.596401	9.99966	787312.0	2.982007	Y
2	IC 410-581544/14	0.5	1.425837	9.99966	819154.0	2.851675	Y
3	IC 410-581544/15	1.0	3.467069	9.99966	755480.0	3.467069	Y
4	IC 410-581544/16	2.0	5.84983	9.99966	819702.0	2.924915	Y
5	IC 410-581544/17	5.0	18.602077	9.99966	763721.0	3.720415	Y
6	ICIS 410-581544/18	10.0	33.563101	9.99966	792188.0	3.35631	Y
7	IC 410-581544/19	25.0	87.767615	9.99966	784305.0	3.510705	Y



Calibration

/ 1,4-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

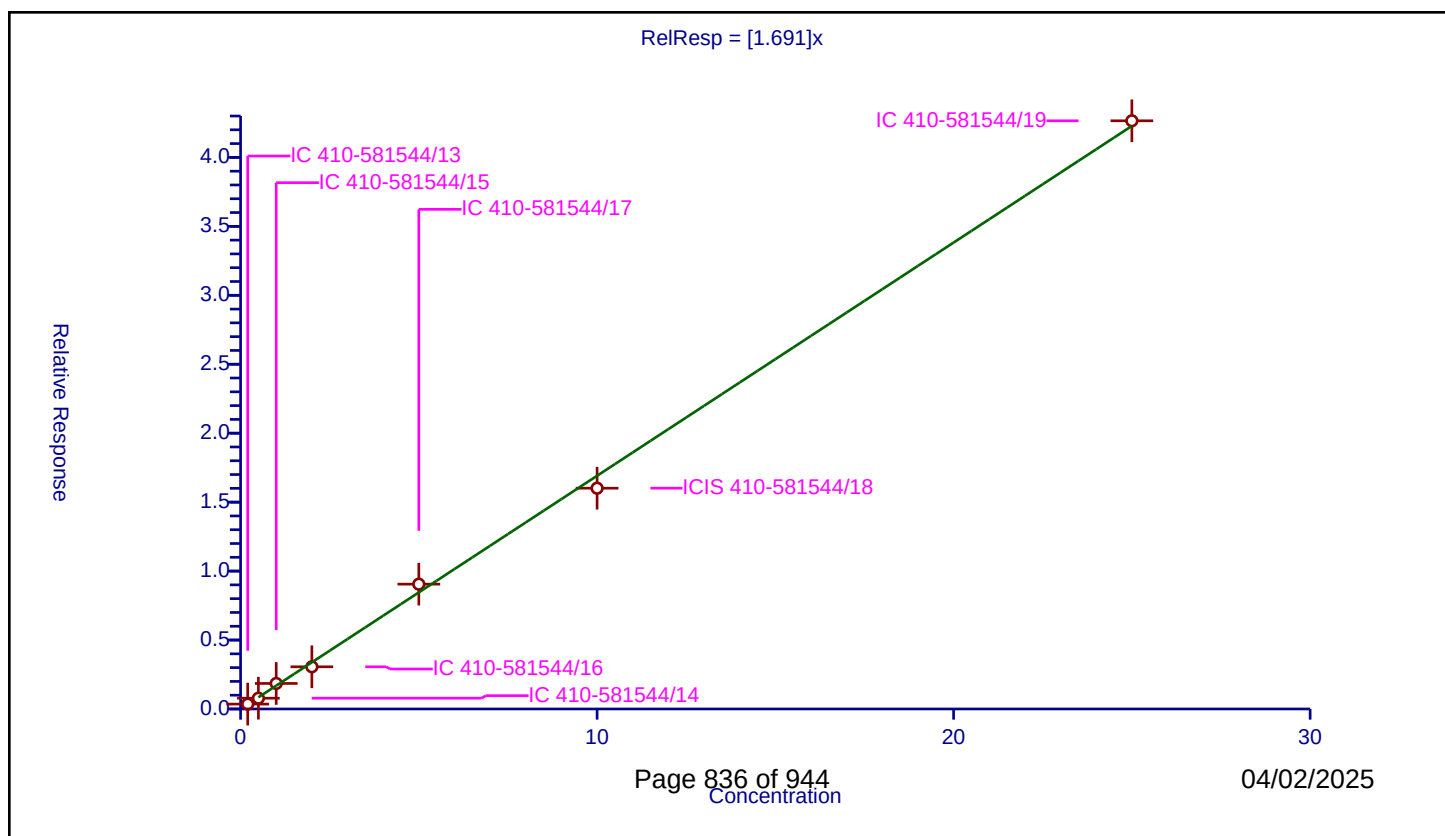
Curve Coefficients

Intercept: 0
Slope: 1.691

Error Coefficients

Relative Standard Deviation: 7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.354523	9.99966	787312.0	1.772617	Y
2	IC 410-581544/14	0.5	0.78272	9.99966	819154.0	1.56544	Y
3	IC 410-581544/15	1.0	1.85219	9.99966	755480.0	1.85219	Y
4	IC 410-581544/16	2.0	3.060411	9.99966	819702.0	1.530205	Y
5	IC 410-581544/17	5.0	9.05199	9.99966	763721.0	1.810398	Y
6	ICIS 410-581544/18	10.0	16.009771	9.99966	792188.0	1.600977	Y
7	IC 410-581544/19	25.0	42.653792	9.99966	784305.0	1.706152	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

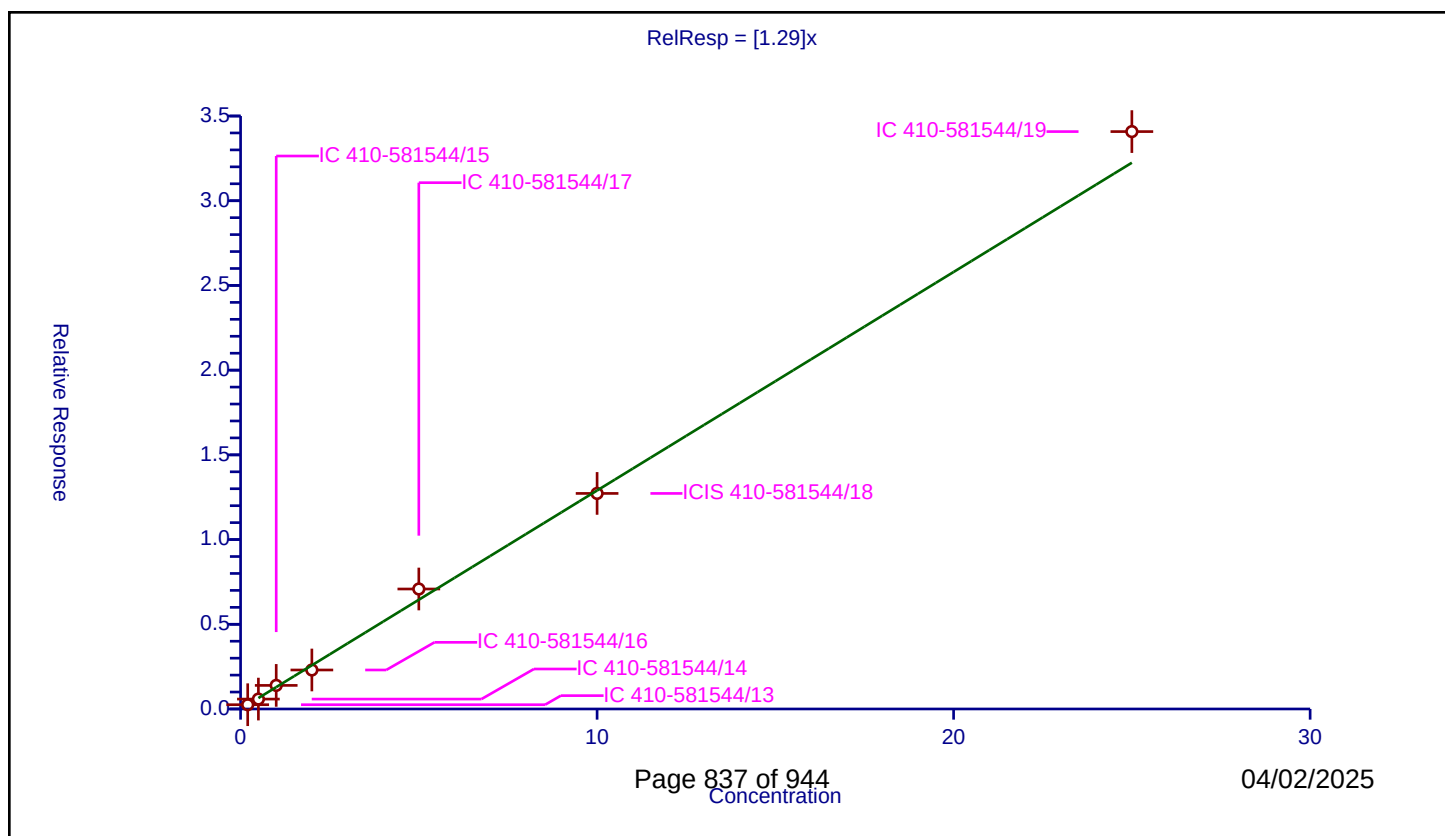
Curve Coefficients

Intercept: 0
Slope: 1.29

Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.252788	9.99966	787312.0	1.263941	Y
2	IC 410-581544/14	0.5	0.58418	9.99966	819154.0	1.168361	Y
3	IC 410-581544/15	1.0	1.392961	9.99966	755480.0	1.392961	Y
4	IC 410-581544/16	2.0	2.301417	9.99966	819702.0	1.150708	Y
5	IC 410-581544/17	5.0	7.082071	9.99966	763721.0	1.416414	Y
6	ICIS 410-581544/18	10.0	12.724022	9.99966	792188.0	1.272402	Y
7	IC 410-581544/19	25.0	34.080429	9.99966	784305.0	1.363217	Y



Calibration

/ Benzyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

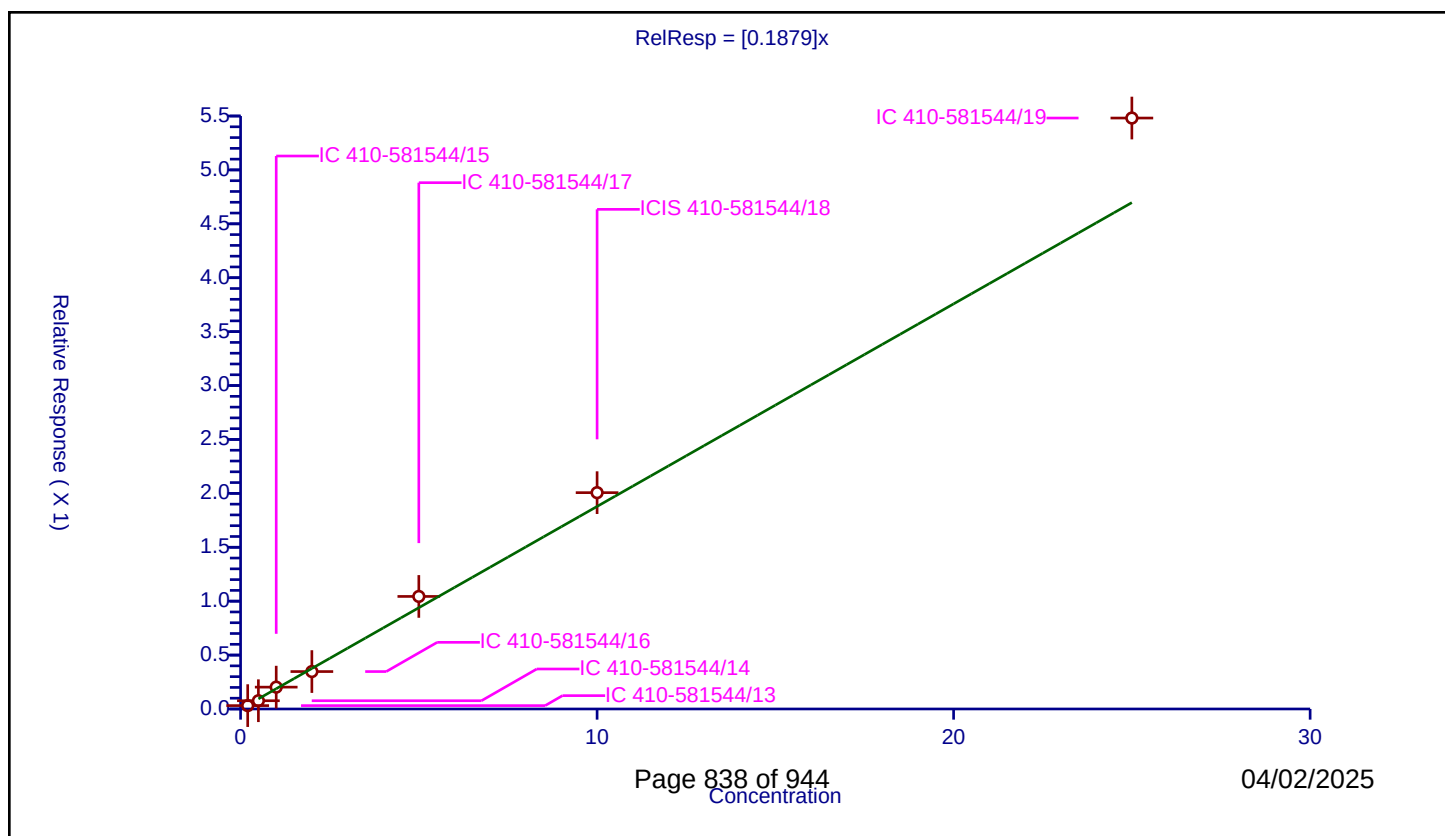
Curve Coefficients

Intercept: 0
Slope: 0.1879

Error Coefficients

Relative Standard Deviation: 14.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.031333	9.99966	787312.0	0.156667	Y
2	IC 410-581544/14	0.5	0.076674	9.99966	819154.0	0.153348	Y
3	IC 410-581544/15	1.0	0.202805	9.99966	755480.0	0.202805	Y
4	IC 410-581544/16	2.0	0.347139	9.99966	819702.0	0.173569	Y
5	IC 410-581544/17	5.0	1.043985	9.99966	763721.0	0.208797	Y
6	ICIS 410-581544/18	10.0	2.00664	9.99966	792188.0	0.200664	Y
7	IC 410-581544/19	25.0	5.481278	9.99966	784305.0	0.219251	Y



Calibration

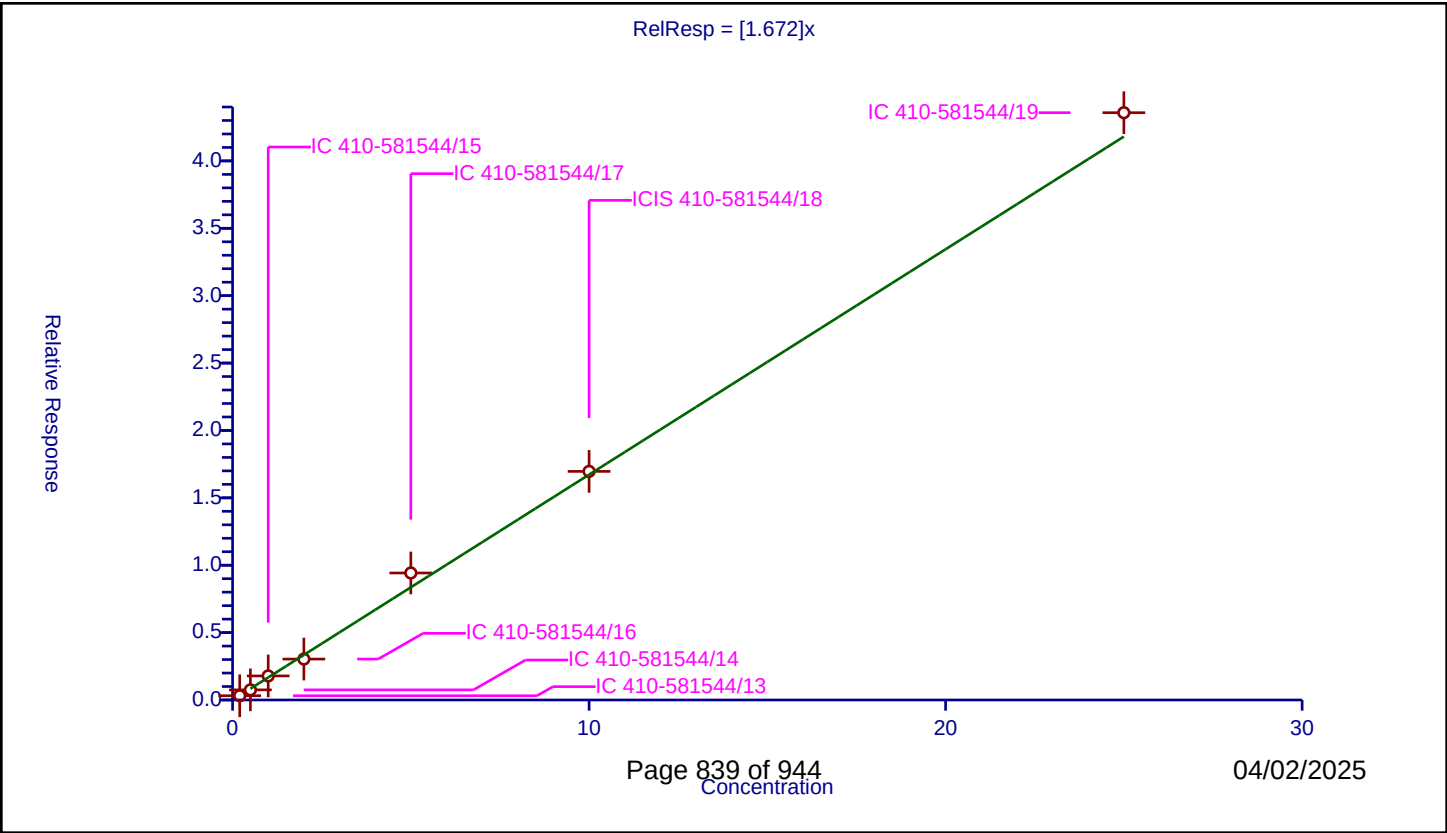
/ n-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.672
Error Coefficients	

Relative Standard Deviation: 8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.315112	9.99966	787312.0	1.575561	Y
2	IC 410-581544/14	0.5	0.750871	9.99966	819154.0	1.501742	Y
3	IC 410-581544/15	1.0	1.785612	9.99966	755480.0	1.785612	Y
4	IC 410-581544/16	2.0	3.036683	9.99966	819702.0	1.518342	Y
5	IC 410-581544/17	5.0	9.423789	9.99966	763721.0	1.884758	Y
6	ICIS 410-581544/18	10.0	16.962442	9.99966	792188.0	1.696244	Y
7	IC 410-581544/19	25.0	43.578529	9.99966	784305.0	1.743141	Y



Calibration

/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

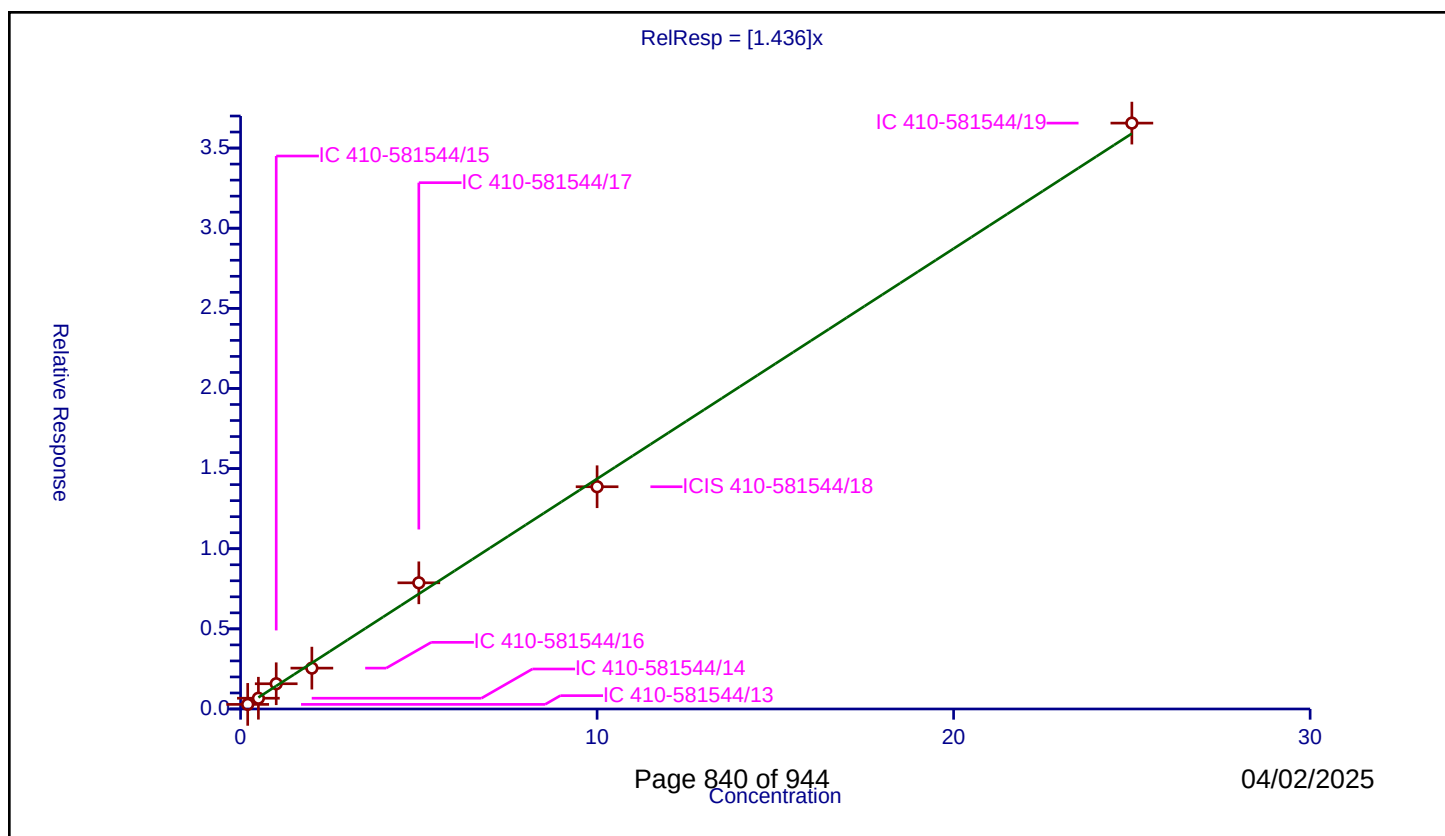
Curve Coefficients

Intercept: 0
Slope: 1.436

Error Coefficients

Relative Standard Deviation: 7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.287068	9.99966	787312.0	1.435341	Y
2	IC 410-581544/14	0.5	0.672207	9.99966	819154.0	1.344415	Y
3	IC 410-581544/15	1.0	1.575117	9.99966	755480.0	1.575117	Y
4	IC 410-581544/16	2.0	2.550304	9.99966	819702.0	1.275152	Y
5	IC 410-581544/17	5.0	7.872136	9.99966	763721.0	1.574427	Y
6	ICIS 410-581544/18	10.0	13.867764	9.99966	792188.0	1.386776	Y
7	IC 410-581544/19	25.0	36.557404	9.99966	784305.0	1.462296	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

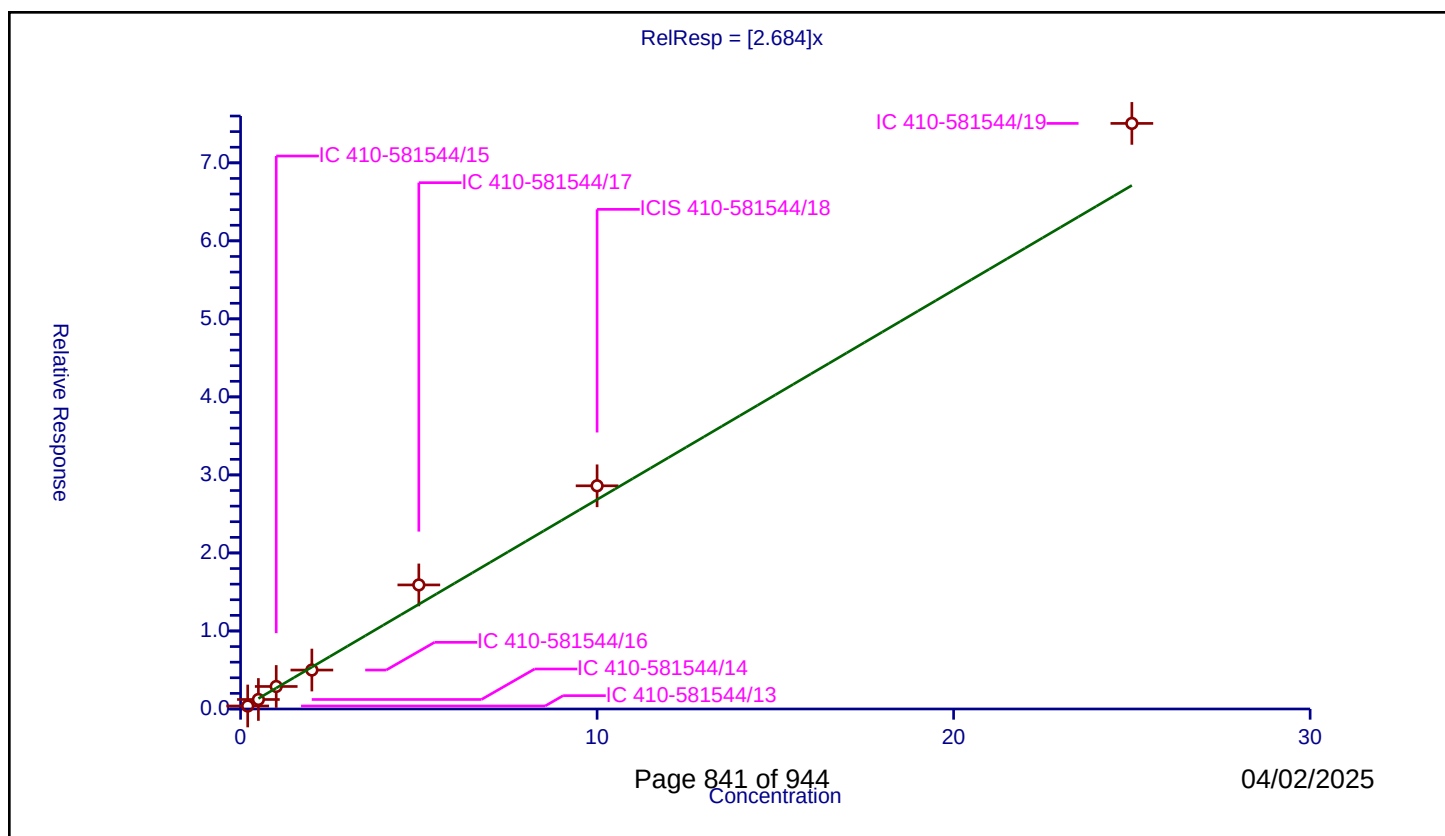
Curve Coefficients

Intercept: 0
 Slope: 2.684

Error Coefficients

Relative Standard Deviation: 15.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.385851	49.9983	75156.0	1.929255	Y
2	IC 410-581544/14	0.5	1.218099	49.9983	78234.0	2.436198	Y
3	IC 410-581544/15	1.0	2.884913	49.9983	70537.0	2.884913	Y
4	IC 410-581544/16	2.0	4.992967	49.9983	82323.0	2.496484	Y
5	IC 410-581544/17	5.0	15.902909	49.9983	72915.0	3.180582	Y
6	ICIS 410-581544/18	10.0	28.603811	49.9983	80518.0	2.860381	Y
7	IC 410-581544/19	25.0	75.051634	49.9983	85355.0	3.002065	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

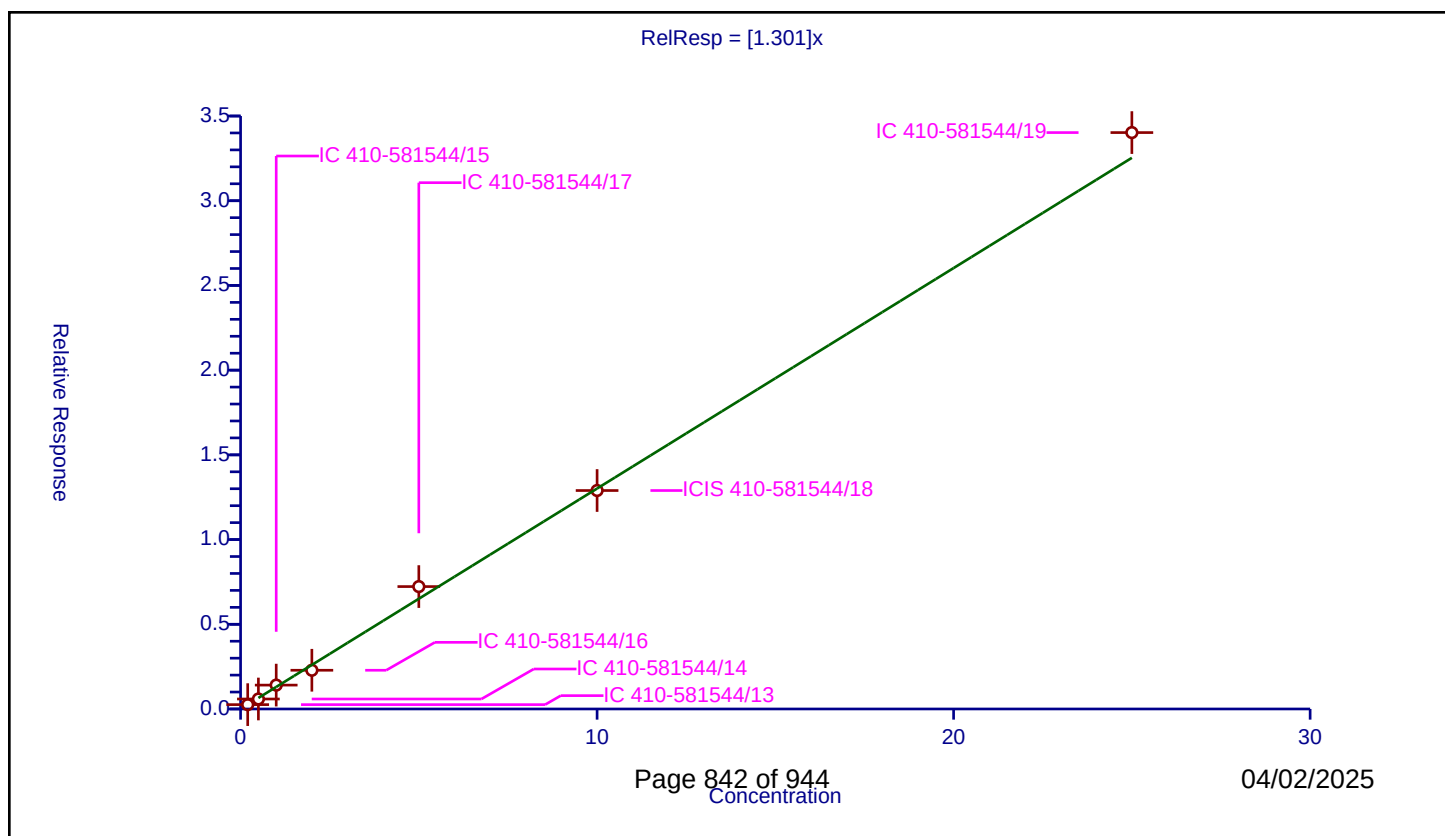
Curve Coefficients

Intercept: 0
Slope: 1.301

Error Coefficients

Relative Standard Deviation: 8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.256624	9.99966	787312.0	1.28312	Y
2	IC 410-581544/14	0.5	0.588905	9.99966	819154.0	1.177809	Y
3	IC 410-581544/15	1.0	1.409453	9.99966	755480.0	1.409453	Y
4	IC 410-581544/16	2.0	2.286448	9.99966	819702.0	1.143224	Y
5	IC 410-581544/17	5.0	7.224644	9.99966	763721.0	1.444929	Y
6	ICIS 410-581544/18	10.0	12.895187	9.99966	792188.0	1.289519	Y
7	IC 410-581544/19	25.0	34.022826	9.99966	784305.0	1.360913	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

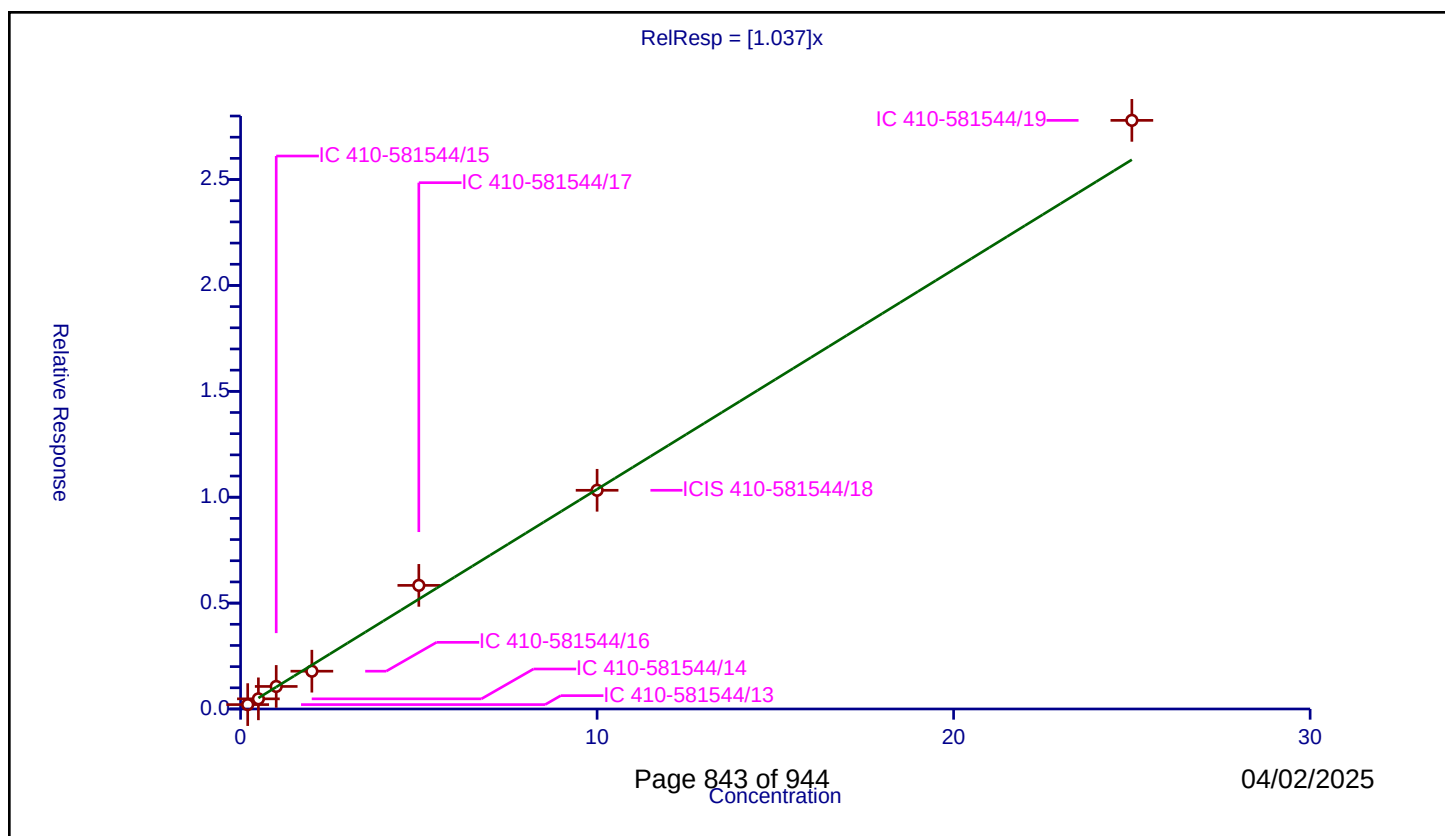
Curve Coefficients

Intercept: 0
Slope: 1.037

Error Coefficients

Relative Standard Deviation: 8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.206849	9.99966	787312.0	1.034243	Y
2	IC 410-581544/14	0.5	0.479307	9.99966	819154.0	0.958615	Y
3	IC 410-581544/15	1.0	1.064995	9.99966	755480.0	1.064995	Y
4	IC 410-581544/16	2.0	1.785149	9.99966	819702.0	0.892575	Y
5	IC 410-581544/17	5.0	5.836737	9.99966	763721.0	1.167347	Y
6	ICIS 410-581544/18	10.0	10.326718	9.99966	792188.0	1.032672	Y
7	IC 410-581544/19	25.0	27.795308	9.99966	784305.0	1.111812	Y



Calibration

/ Hexachlorobutadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

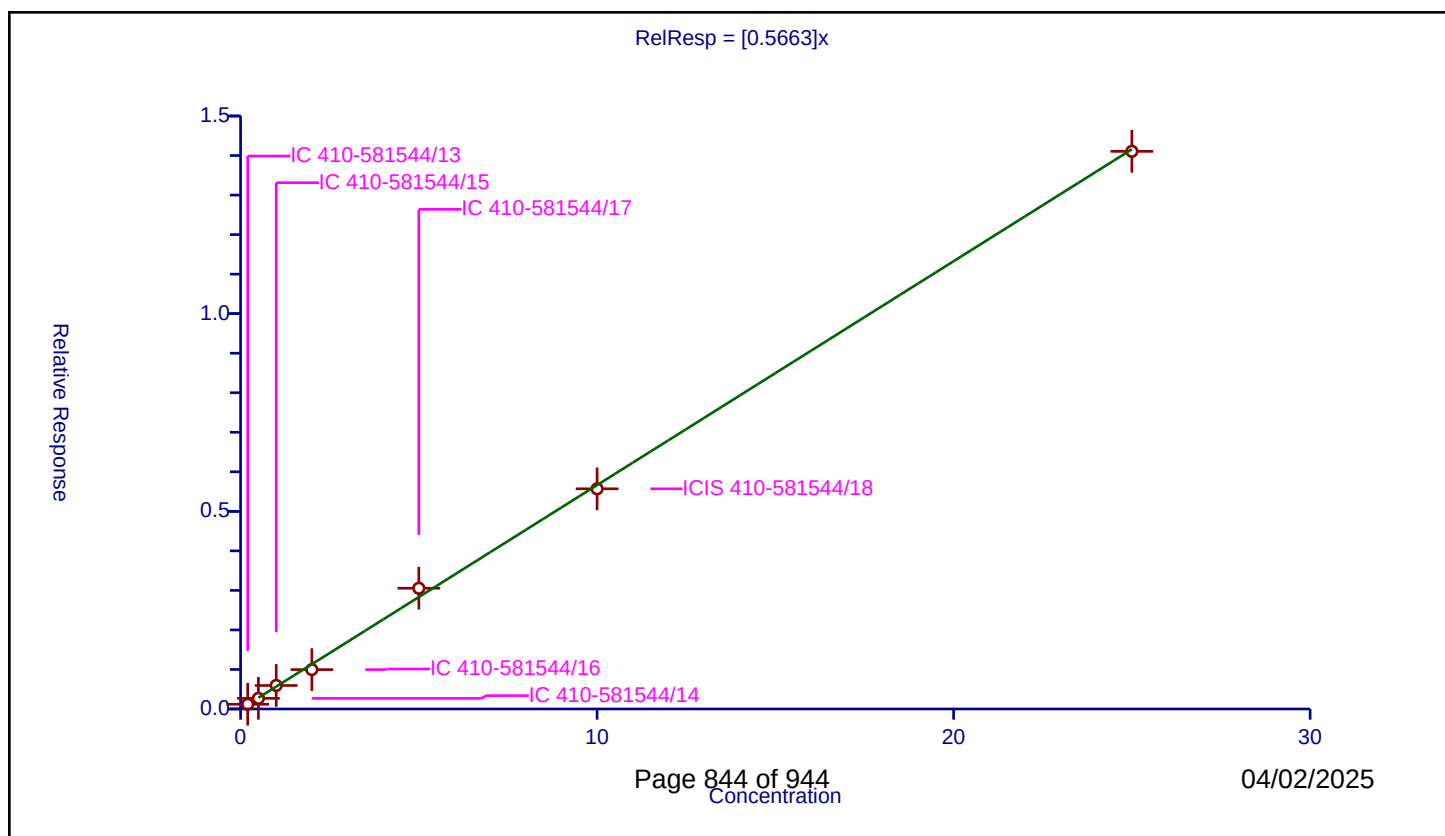
Curve Coefficients

Intercept: 0
Slope: 0.5663

Error Coefficients

Relative Standard Deviation: 7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.12005	9.99966	787312.0	0.60025	Y
2	IC 410-581544/14	0.5	0.269684	9.99966	819154.0	0.539367	Y
3	IC 410-581544/15	1.0	0.594767	9.99966	755480.0	0.594767	Y
4	IC 410-581544/16	2.0	0.99573	9.99966	819702.0	0.497865	Y
5	IC 410-581544/17	5.0	3.054467	9.99966	763721.0	0.610893	Y
6	ICIS 410-581544/18	10.0	5.570243	9.99966	792188.0	0.557024	Y
7	IC 410-581544/19	25.0	14.106494	9.99966	784305.0	0.56426	Y



Calibration

/ Naphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

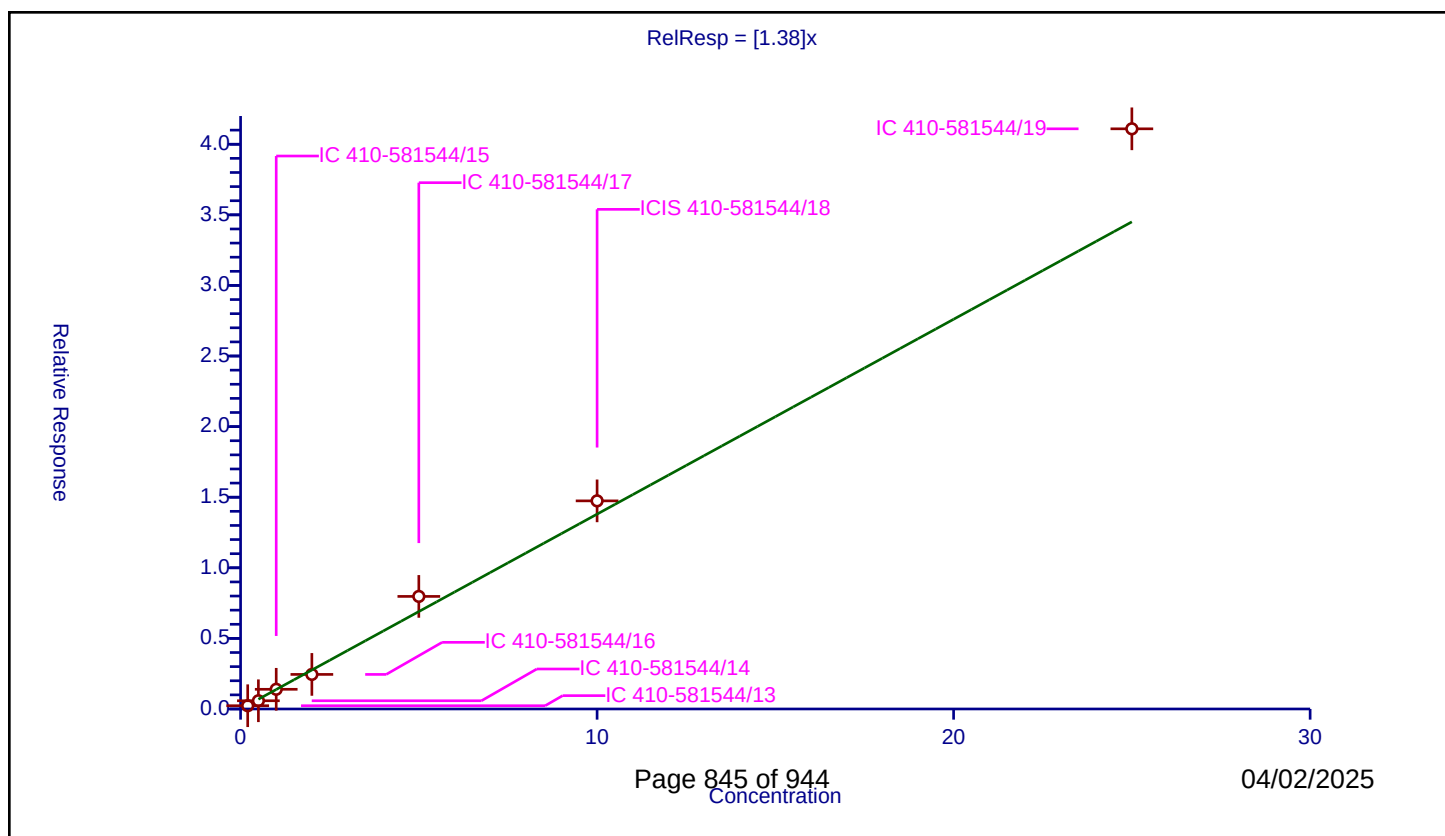
Curve Coefficients

Intercept: 0
Slope: 1.38

Error Coefficients

Relative Standard Deviation: 14.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.232263	9.99966	787312.0	1.161317	Y
2	IC 410-581544/14	0.5	0.58346	9.99966	819154.0	1.16692	Y
3	IC 410-581544/15	1.0	1.395476	9.99966	755480.0	1.395476	Y
4	IC 410-581544/16	2.0	2.449648	9.99966	819702.0	1.224824	Y
5	IC 410-581544/17	5.0	7.973845	9.99966	763721.0	1.594769	Y
6	ICIS 410-581544/18	10.0	14.741454	9.99966	792188.0	1.474145	Y
7	IC 410-581544/19	25.0	41.092488	9.99966	784305.0	1.6437	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

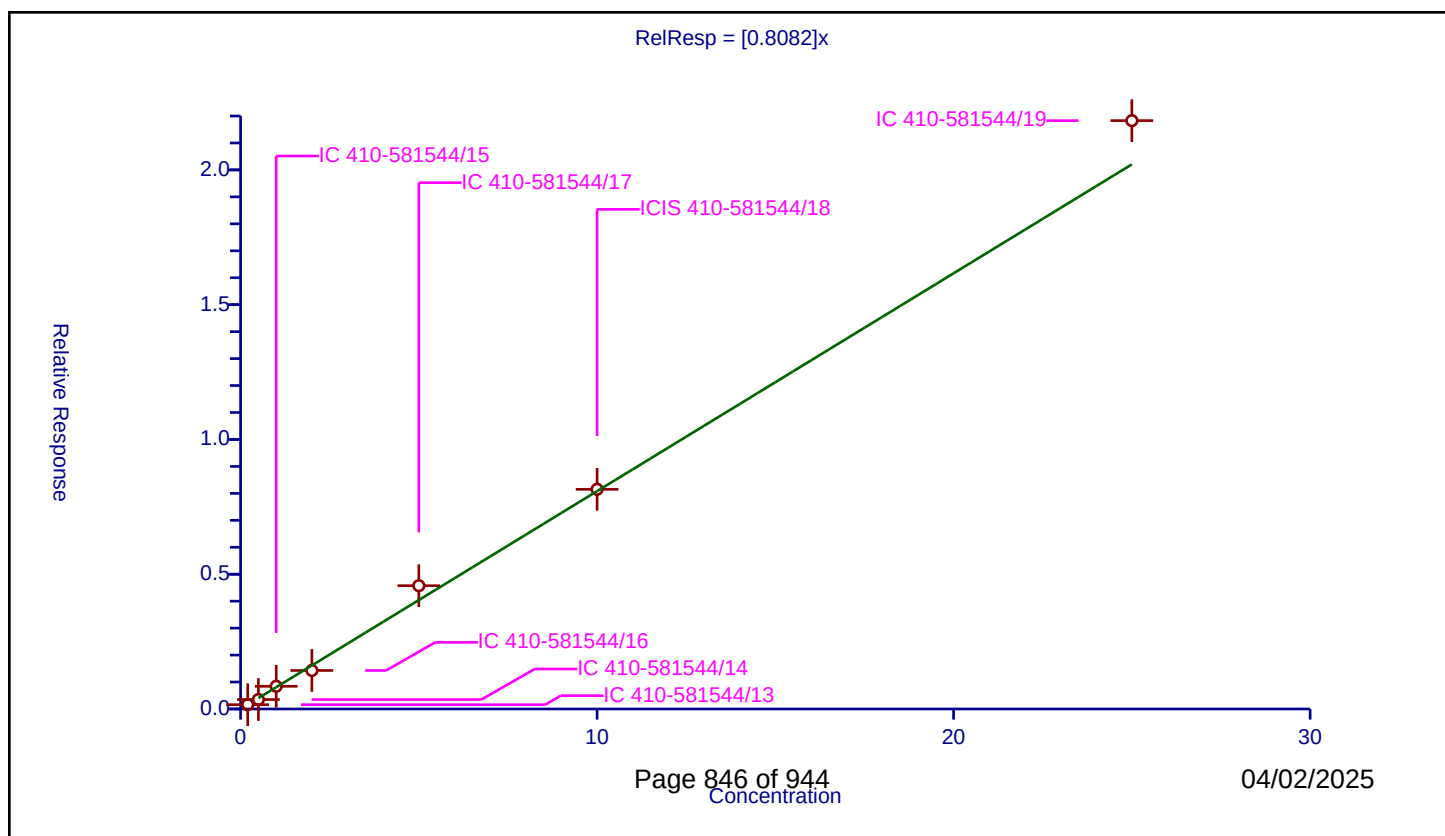
Curve Coefficients

Intercept: 0
Slope: 0.8082

Error Coefficients

Relative Standard Deviation: 9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-581544/13	0.2	0.159322	9.99966	787312.0	0.796608	Y
2	IC 410-581544/14	0.5	0.350667	9.99966	819154.0	0.701334	Y
3	IC 410-581544/15	1.0	0.84227	9.99966	755480.0	0.84227	Y
4	IC 410-581544/16	2.0	1.428702	9.99966	819702.0	0.714351	Y
5	IC 410-581544/17	5.0	4.574565	9.99966	763721.0	0.914913	Y
6	ICIS 410-581544/18	10.0	8.149632	9.99966	792188.0	0.814963	Y
7	IC 410-581544/19	25.0	21.828801	9.99966	784305.0	0.873152	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

Lab Sample ID: ICV 410-70996/19 Calibration Date: 11/30/2020 18:45

Instrument ID: 16334 Calib Start Date: 11/30/2020 12:50

GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 11/30/2020 15:03

Lab File ID: GN30V11.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
Acrolein	Ave	1.898				37.5		
Dibromofluoromethane (Surr)	Ave	0.2420	0.2430		10.0	10.0	0.4	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0515	0.0511		9.91	10.0	-0.9	30.0
Toluene-d8 (Surr)	Ave	1.334	1.346		10.1	10.0	0.9	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5094	0.5129		10.1	10.0	0.7	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30V11.D
 Lims ID: ICV sm
 Client ID:
 Sample Type: ICV
 Inject. Date: 30-Nov-2020 18:45:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0016641-019
 Misc. Info.: ICV ^SM
 Operator ID: DVV10203 Instrument ID: 16334
 Sublist:
 Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Dec-2020 19:03:51 Calib Date: 30-Nov-2020 18:23:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1610

First Level Reviewer: virayd

Date: 01-Dec-2020 13:25:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Chlorodifluoromethane	51	1.952	1.959	-0.007	98	258006	5.00	5.15	
2 Dimethyl ether	45	2.020	2.032	-0.012	100	300022	5.00	4.31	
18 Acrolein	56		3.385				ND	ND	U
14 Acetonitrile	41	3.915	3.940	-0.025	98	154957	37.5	43.9	M
* 29 t-Butyl alcohol-d10 (IS)	65	4.196	4.202	-0.006	0	168770	50.0	50.0	M
35 Vinyl acetate	43	5.226	5.233	-0.007	97	900153	12.5	10.2	
43 Ethyl acetate	43	6.104	6.104	0.000	97	122705	2.50	2.53	M
45 Methyl acrylate	55	6.165	6.171	-0.006	99	875494	25.0	26.7	
\$ 52 Dibromofluoromethane (Surr)	113	6.775	6.781	-0.006	93	513580	10.0	10.0	
54 1-Chlorobutane	56	6.939	6.940	-0.001	96	499422	5.00	5.30	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.226	7.232	-0.006	0	107925	10.0	9.91	
61 Isopropyl acetate	43	7.348	7.348	0.000	98	201820	2.50	2.42	
* 63 Fluorobenzene (IS)	96	7.665	7.671	-0.006	99	2113902	10.0	10.0	
74 n-Propyl acetate	61	8.652	8.646	0.006	99	41773	2.50	2.46	
77 Chloroacetonitrile	75	9.195	9.189	0.006	87	387028	250.0	238.4	M
78 2-Chloroethyl vinyl ether	63	9.195	9.195	0.000	76	136935	5.00	4.90	
\$ 82 Toluene-d8 (Surr)	98	9.683	9.689	-0.006	94	2050803	10.0	10.1	
92 n-Butyl acetate	43	10.567	10.567	0.000	98	193033	2.50	2.49	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	87	1523533	10.0	10.0	
106 cis-1,4-Dichloro-2-butene	88	12.054	12.054	0.000	0	169075	12.5	14.7	
107 Cyclohexanone	55	12.091	12.085	0.006	93	153444	125.0	121.9	
\$ 108 4-Bromofluorobenzene (Surr)	95	12.152	12.152	0.000	89	781360	10.0	10.1	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	96	824031	10.0	10.0	
133 Hexachloroethane	201	13.505	13.505	0.000	97	175394	5.00	4.91	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_Q_VOA5_00018	Amount Added: 25.00	Units: uL	
MSV_QCYC_00004	Amount Added: 12.50	Units: uL	
MSV_Q_QARC_00056	Amount Added: 12.50	Units: uL	
MSV_QLKB_00003	Amount Added: 25.00	Units: uL	
MSV_QAcet_00012	Amount Added: 7.50	Units: uL	
MSV_Q_QDME_00010	Amount Added: 5.00	Units: uL	
MSV_Q_CDFM_25_00008	Amount Added: 5.00	Units: uL	
MSV_QREV4_25_00013	Amount Added: 12.50	Units: uL	
MSV_29_826ISS_00013	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 01-Dec-2020 19:04:04

Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30V11.D

Injection Date: 30-Nov-2020 18:45:30

Instrument ID: 16334

Operator ID: DVV10203

Lims ID: ICV sm

Worklist Smp#: 19

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

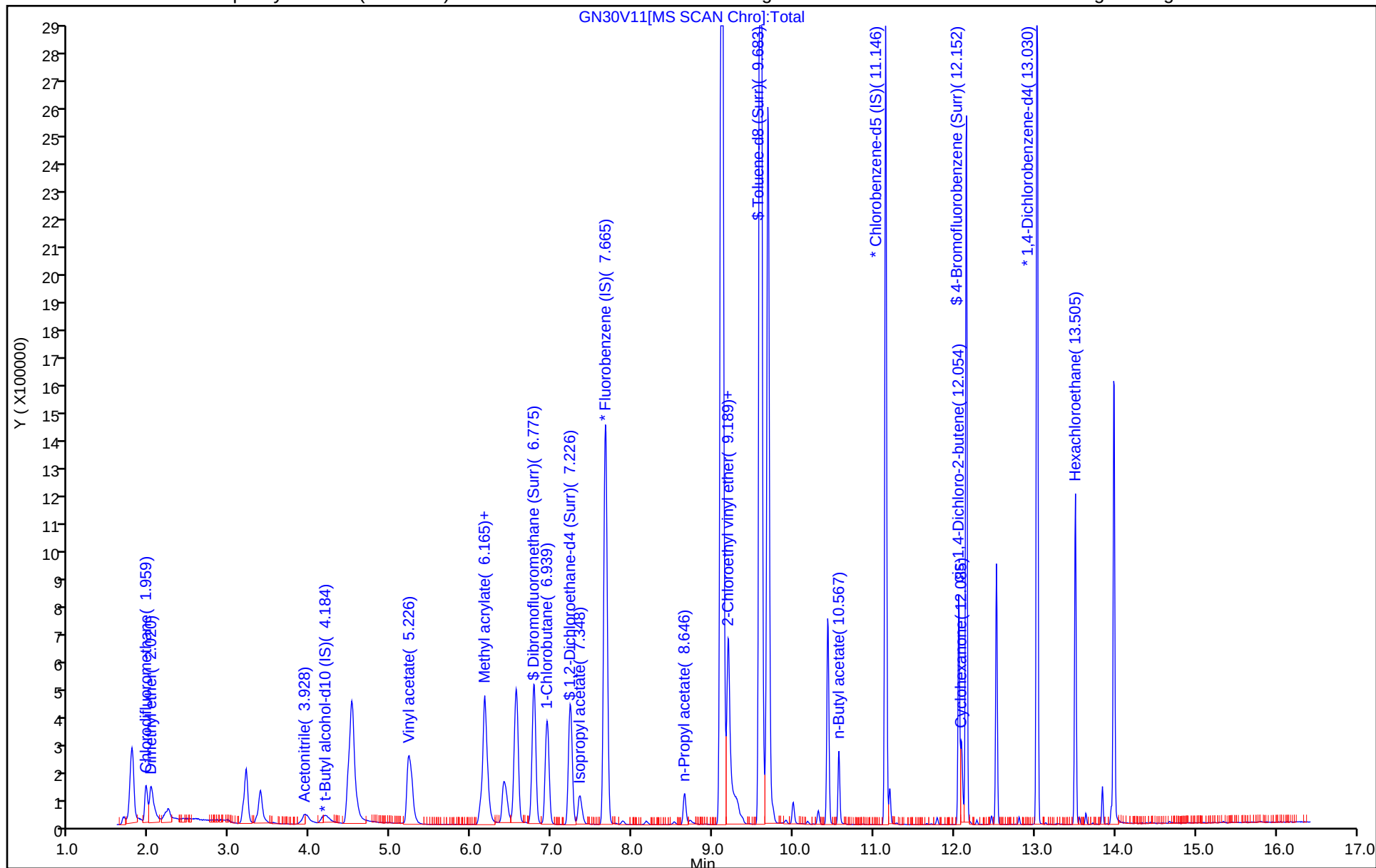
ALS Bottle#: 18

Method: MSV_16334_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 Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30V11.D

Injection Date: 30-Nov-2020 18:45:30

Instrument ID: 16334

Lims ID: ICV sm

Client ID:

Operator ID: DVV10203

ALS Bottle#:

18

Worklist Smp#: 19

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

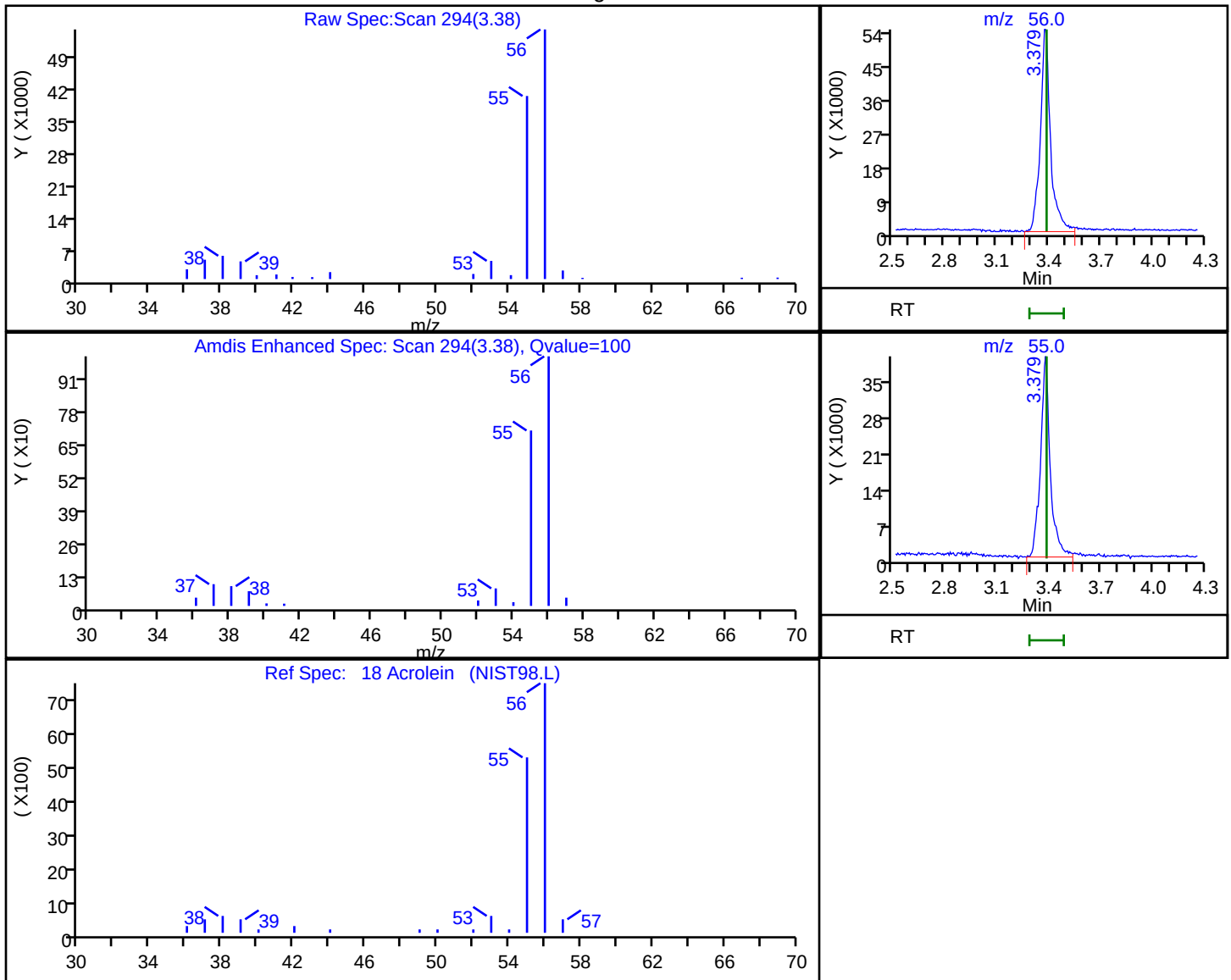
MSV - 8260C_D

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

MS Quad

18 Acrolein, CAS: 107-02-8

Processing Results



RT	Mass	Response	Amount
3.38	56.00	225860	35.906693
3.38	55.00	156002	

Reviewer: virayd, 01-Dec-2020 13:25:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Lab Sample ID: ICV 410-70996/19 Calibration Date: 11/30/2020 18:45
Instrument ID: 16334 Calib Start Date: 11/30/2020 16:10
GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 11/30/2020 18:23
Lab File ID: GN30V11.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
Chlorodifluoromethane	Ave	0.2372	0.2441		5.15	5.00	2.9	30.0
Methoxymethane	Ave	0.3290	0.2839		4.31	5.00	-13.7	30.0
Acetonitrile	Ave	1.045	1.224		43.9	37.5	17.2	30.0
Vinyl acetate	Ave	0.4163	0.3407		10.2	12.5	-18.2	30.0
Ethyl acetate	Ave	0.2292	0.2322		2.53	2.50	1.3	30.0
Methyl acrylate	Ave	0.1551	0.1657		26.7	25.0	6.8	30.0
1-Chlorobutane	Ave	0.4456	0.4725		5.30	5.00	6.0	30.0
n-Propyl acetate	Ave	0.0803	0.0790		2.46	2.50	-1.6	30.0
2-Chloroethyl vinyl ether	Ave	0.1321	0.1296		4.90	5.00	-2.0	30.0
Chloroacetonitrile	Ave	0.0077	0.0073		238	250	-4.6	30.0
cis-1,4-Dichloro-2-butene	Ave	3.400	4.003		14.7	12.5	17.8	30.0
Cyclohexanone	Ave	0.3729	0.3636		122	125	-2.5	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30V11.D
 Lims ID: ICV sm
 Client ID:
 Sample Type: ICV
 Inject. Date: 30-Nov-2020 18:45:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0016641-019
 Misc. Info.: ICV ^SM
 Operator ID: DVV10203 Instrument ID: 16334
 Sublist:
 Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Dec-2020 19:03:51 Calib Date: 30-Nov-2020 18:23:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1610

First Level Reviewer: virayd

Date: 01-Dec-2020 13:25:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Chlorodifluoromethane	51	1.952	1.959	-0.007	98	258006	5.00	5.15	
2 Dimethyl ether	45	2.020	2.032	-0.012	100	300022	5.00	4.31	
18 Acrolein	56		3.385				ND	ND	U
14 Acetonitrile	41	3.915	3.940	-0.025	98	154957	37.5	43.9	M
* 29 t-Butyl alcohol-d10 (IS)	65	4.196	4.202	-0.006	0	168770	50.0	50.0	M
35 Vinyl acetate	43	5.226	5.233	-0.007	97	900153	12.5	10.2	
43 Ethyl acetate	43	6.104	6.104	0.000	97	122705	2.50	2.53	M
45 Methyl acrylate	55	6.165	6.171	-0.006	99	875494	25.0	26.7	
\$ 52 Dibromofluoromethane (Surr)	113	6.775	6.781	-0.006	93	513580	10.0	10.0	
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\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.226	7.232	-0.006	0	107925	10.0	9.91	
61 Isopropyl acetate	43	7.348	7.348	0.000	98	201820	2.50	2.42	
* 63 Fluorobenzene (IS)	96	7.665	7.671	-0.006	99	2113902	10.0	10.0	
74 n-Propyl acetate	61	8.652	8.646	0.006	99	41773	2.50	2.46	
77 Chloroacetonitrile	75	9.195	9.189	0.006	87	387028	250.0	238.4	M
78 2-Chloroethyl vinyl ether	63	9.195	9.195	0.000	76	136935	5.00	4.90	
\$ 82 Toluene-d8 (Surr)	98	9.683	9.689	-0.006	94	2050803	10.0	10.1	
92 n-Butyl acetate	43	10.567	10.567	0.000	98	193033	2.50	2.49	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	87	1523533	10.0	10.0	
106 cis-1,4-Dichloro-2-butene	88	12.054	12.054	0.000	0	169075	12.5	14.7	
107 Cyclohexanone	55	12.091	12.085	0.006	93	153444	125.0	121.9	
\$ 108 4-Bromofluorobenzene (Surr)	95	12.152	12.152	0.000	89	781360	10.0	10.1	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	96	824031	10.0	10.0	
133 Hexachloroethane	201	13.505	13.505	0.000	97	175394	5.00	4.91	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_Q_VOA5_00018	Amount Added: 25.00	Units: uL	
MSV_QCYC_00004	Amount Added: 12.50	Units: uL	
MSV_Q_QARC_00056	Amount Added: 12.50	Units: uL	
MSV_QLKB_00003	Amount Added: 25.00	Units: uL	
MSV_QAcet_00012	Amount Added: 7.50	Units: uL	
MSV_Q_QDME_00010	Amount Added: 5.00	Units: uL	
MSV_Q_CDFM_25_00008	Amount Added: 5.00	Units: uL	
MSV_QREV4_25_00013	Amount Added: 12.50	Units: uL	
MSV_29_826ISS_00013	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 01-Dec-2020 19:04:04

Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30V11.D

Injection Date: 30-Nov-2020 18:45:30

Instrument ID: 16334

Operator ID: DVV10203

Lims ID: ICV sm

Worklist Smp#: 19

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

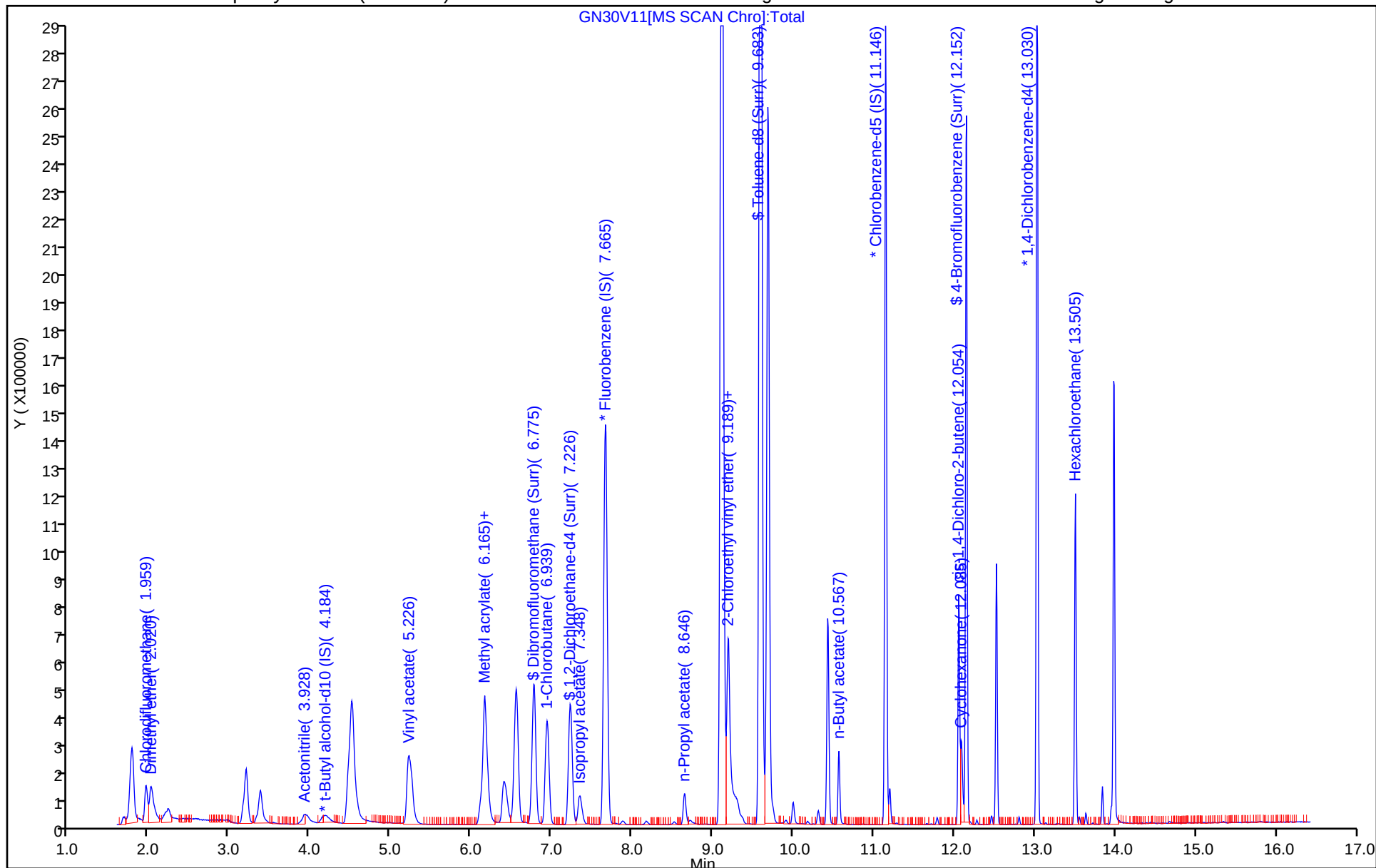
ALS Bottle#: 18

Method: MSV_16334_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 Env, LLC

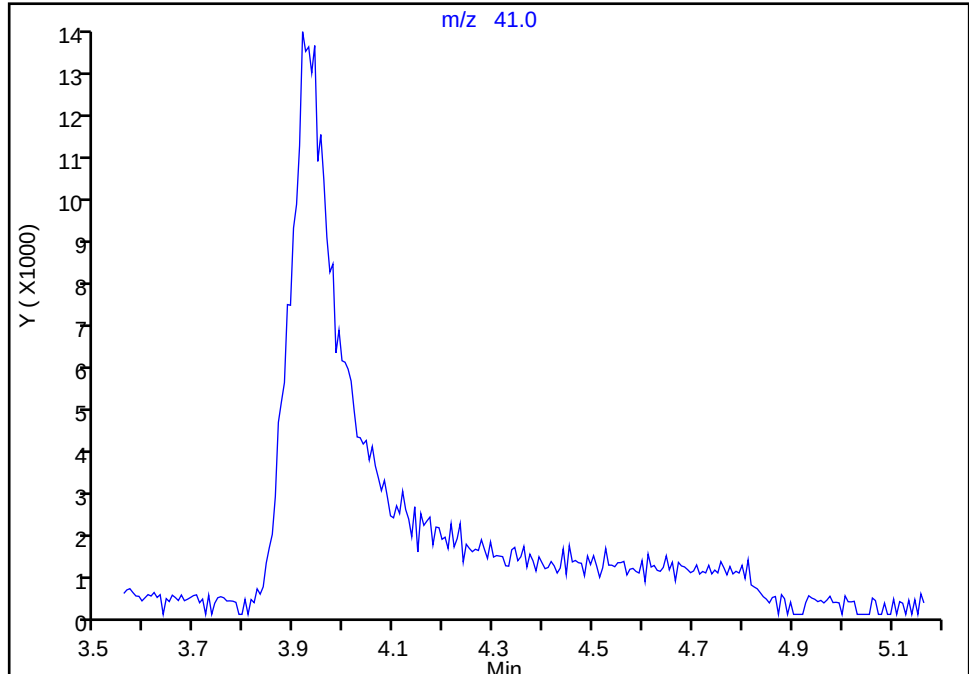
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Injection Date: 30-Nov-2020 18:45:30 Instrument ID: 16334
Lims ID: ICV sm
Client ID:
Operator ID: DVV10203 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

14 Acetonitrile, CAS: 75-05-8

Signal: 1

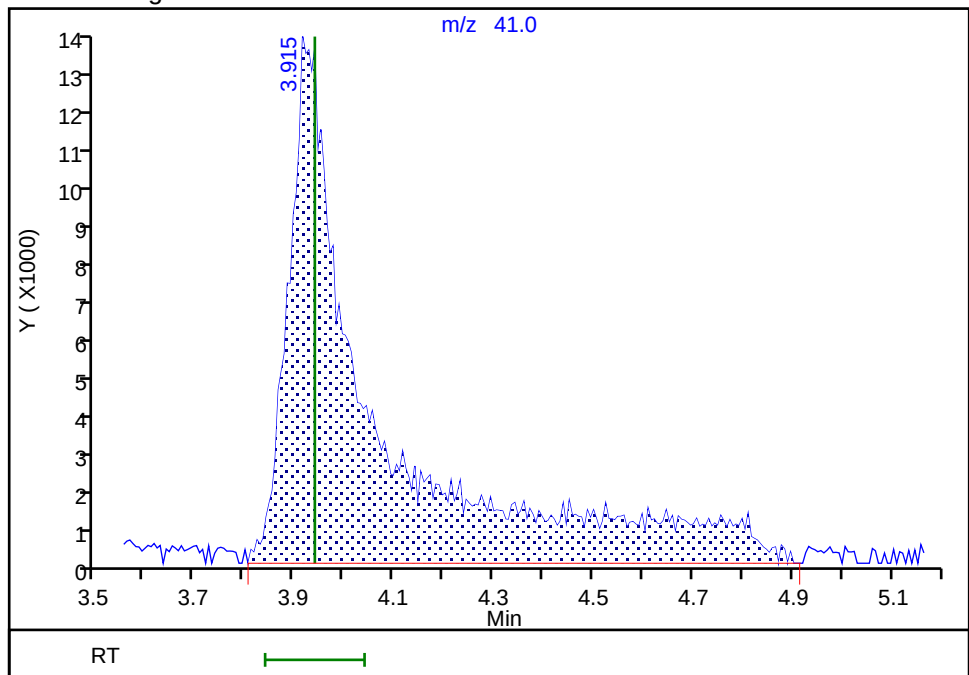
Not Detected
Expected RT: 3.94

Processing Integration Results



RT: 3.92
Area: 154957
Amount: 43.928737
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 13:25:19
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

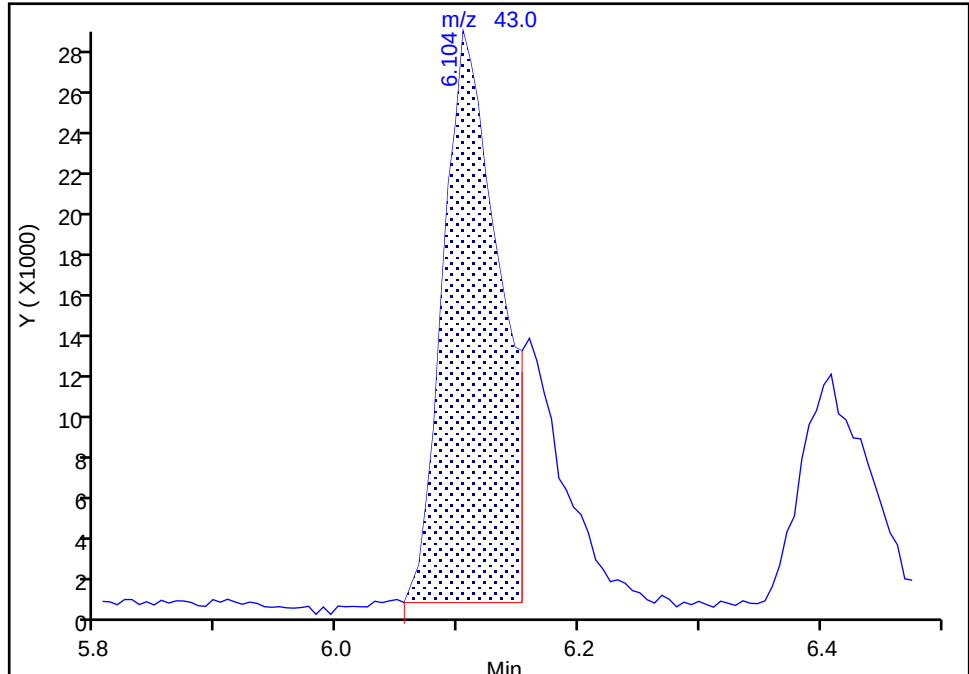
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30V11.D
Injection Date: 30-Nov-2020 18:45:30 Instrument ID: 16334
Lims ID: ICV sm
Client ID:
Operator ID: DVV10203 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

43 Ethyl acetate, CAS: 141-78-6

Signal: 1

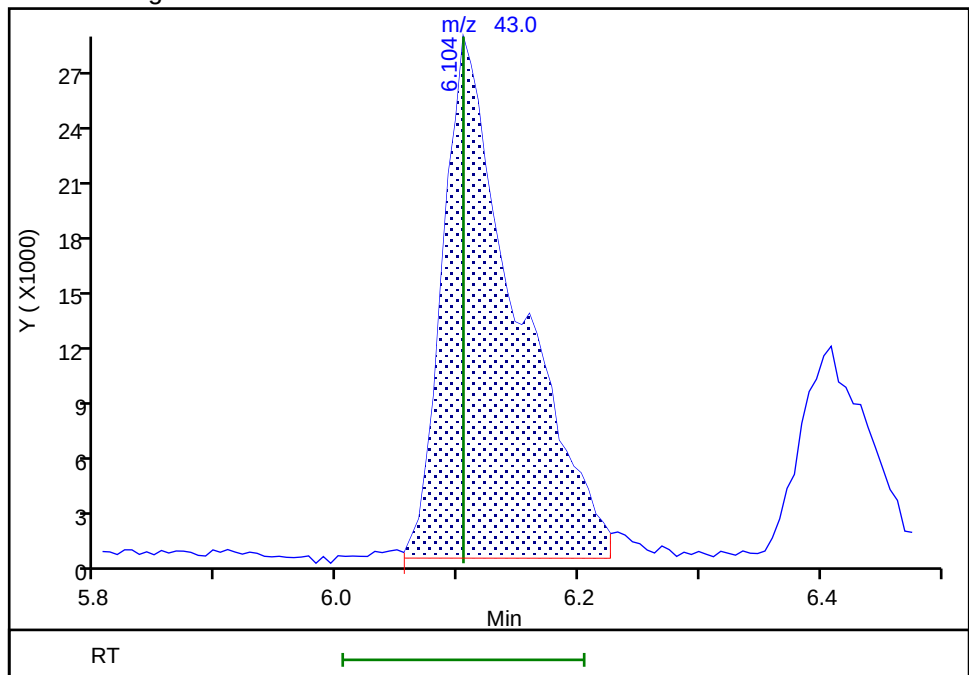
RT: 6.10
Area: 92403
Amount: 1.907127
Amount Units: ug/l

Processing Integration Results



RT: 6.10
Area: 122705
Amount: 2.532538
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 13:25:33
Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30V11.D

Injection Date: 30-Nov-2020 18:45:30

Instrument ID: 16334

Lims ID: ICV sm

Client ID:

Operator ID: DVV10203

ALS Bottle#:

18

Worklist Smp#: 19

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_16334_25mL

Limit Group:

MSV - 8260C_D

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

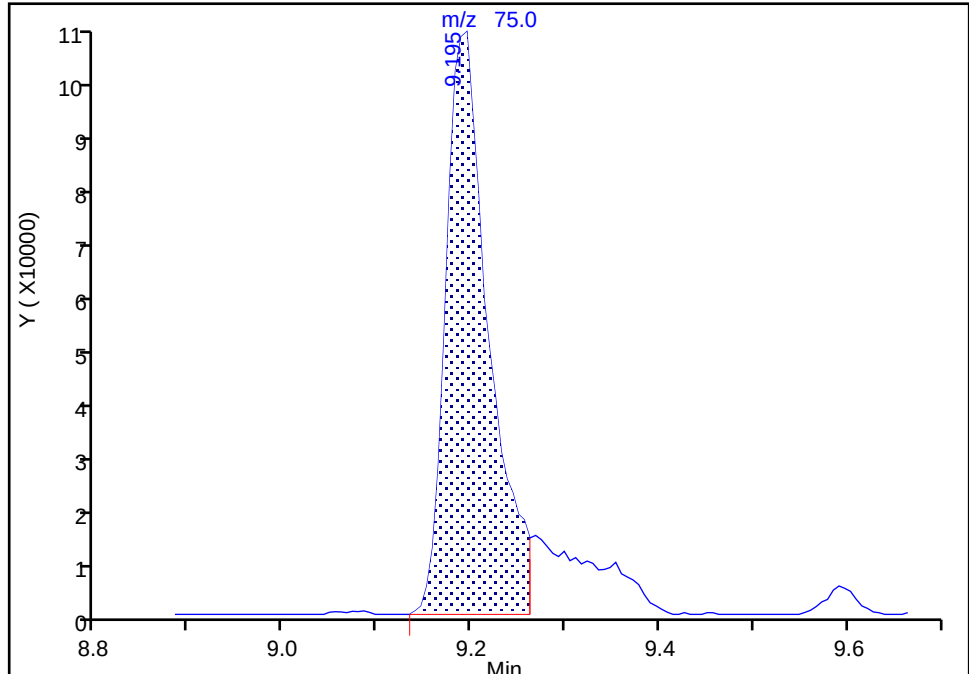
MS Quad

77 Chloroacetonitrile, CAS: 107-14-2

Signal: 1

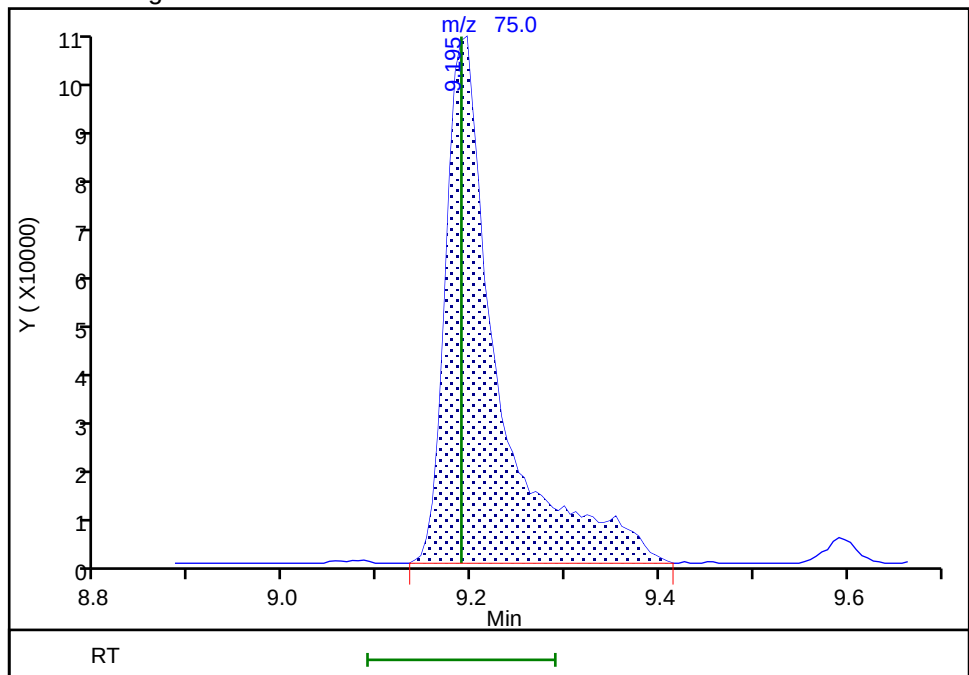
RT: 9.19
Area: 320850
Amount: 197.6584
Amount Units: ug/l

Processing Integration Results



RT: 9.19
Area: 387028
Amount: 238.4271
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 13:25:43

Audit Action: Manually Integrated

Audit Reason: Other

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

Lab Sample ID: ICV 410-581544/21

Calibration Date: 12/03/2024 19:02

Instrument ID: 16334

Calib Start Date: 12/03/2024 16:05

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

Calib End Date: 12/03/2024 18:18

Lab File ID: GD03X20.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	0.3199	0.3270	0.1000	5.11	5.00	2.2	30.0
Chloromethane	Ave	0.3838	0.3611	0.1000	4.70	5.00	-5.9	30.0
1,3-Butadiene	Ave	0.3533	0.3493		4.94	5.00	-1.1	30.0
Vinyl chloride	Ave	0.3476	0.3511	0.1000	5.05	5.00	1.0	30.0
Bromomethane	Ave	0.2261	0.2160	0.1000	4.78	5.00	-4.4	30.0
Chloroethane	Ave	0.1756	0.1801	0.1000	5.13	5.00	2.6	30.0
Dichlorofluoromethane	Ave	0.4919	0.4550		4.62	5.00	-7.5	30.0
Trichlorofluoromethane	Ave	0.3850	0.3932	0.1000	5.11	5.00	2.1	30.0
Ethyl ether	Ave	0.1410	0.1222		4.33	5.00	-13.3	30.0
Pentane	None					5.00		30.0
Freon 123a	Ave	0.2903	0.3058		5.27	5.00	5.3	30.0
Acrolein	Ave	2.022	2.599		47.0	36.6	28.5	30.0
1,1-Dichloroethene	Ave	0.2255	0.2292	0.1000	5.08	5.00	1.6	30.0
Acetone	Ave	2.869	2.587	0.1000	56.4	62.5	-9.8	30.0
Freon 113	Ave	0.2374	0.2175	0.1000	4.58	5.00	-8.4	30.0
Methyl iodide	Ave	0.4363	0.3709		4.25	5.00	-15.0	30.0
Ethyl bromide	Ave	0.1987	0.1946		4.95	5.05	-2.0	30.0
Carbon disulfide	Ave	0.8268	0.7303	0.1000	4.42	5.00	-11.7	30.0
Methyl acetate	Ave	12.10	12.98	0.1000	5.36	5.00	7.3	30.0
Allyl chloride	Ave	0.3919	0.3440		4.39	5.00	-12.2	30.0
Methylene Chloride	Ave	0.2494	0.2423	0.1000	4.86	5.00	-2.9	30.0
t-Butyl alcohol	Ave	0.5876	0.5945		50.6	50.0	1.2	30.0
Acrylonitrile	Ave	3.929	4.321		27.5	25.0	10.0	30.0
Methyl tert-butyl ether	Ave	0.5032	0.4713	0.1000	4.68	5.00	-6.3	30.0
trans-1,2-Dichloroethene	Ave	0.2650	0.2592	0.1000	4.89	5.00	-2.2	30.0
n-Hexane	Ave	0.3462	0.3248		4.69	5.00	-6.2	30.0
1,1-Dichloroethane	Ave	0.4802	0.4764	0.2000	4.96	5.00	-0.8	30.0
di-Isopropyl ether	Ave	0.7550	0.6964		4.61	5.00	-7.8	30.0
2-Chloro-1,3-butadiene	Ave	0.3676	0.3325		4.52	5.00	-9.5	30.0
Ethyl t-butyl ether	Ave	0.6649	0.6241		4.69	5.00	-6.2	30.0
2-Butanone (MEK)	Ave	4.916	5.420	0.1000	68.9	62.5	10.2	30.0
cis-1,2-Dichloroethene	Ave	0.2899	0.2796	0.1000	4.82	5.00	-3.6	30.0
2,2-Dichloropropane	Ave	0.4088	0.3793		4.64	5.00	-7.2	30.0
Propionitrile	Qua		1.309		37.2	37.5	-0.7	30.0
Methacrylonitrile	Ave	5.302	6.557		46.4	37.5	23.7	30.0
Bromochloromethane	Ave	0.1088	0.1092		5.02	5.00	0.4	30.0
Tetrahydrofuran	Ave	1.407	1.610		28.6	25.0	14.5	30.0
Chloroform	Ave	0.4711	0.4570	0.2000	4.85	5.00	-3.0	30.0
1,1,1-Trichloroethane	Ave	0.4171	0.4136	0.1000	4.96	5.00	-0.8	30.0
Cyclohexane	Ave	0.4159	0.3941	0.1000	4.74	5.00	-5.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.: _____

Lab Sample ID: ICV 410-581544/21

Calibration Date: 12/03/2024 19:02

Instrument ID: 16334

Calib Start Date: 12/03/2024 16:05

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

Calib End Date: 12/03/2024 18:18

Lab File ID: GD03X20.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.3567	0.3526	0.1000	4.94	5.00	-1.1	30.0
1,1-Dichloropropene	Ave	0.3721	0.3545		4.76	5.00	-4.7	30.0
Isobutyl alcohol	Ave	0.0018	0.0015		102	125	-18.3	30.0
Benzene	Ave	1.110	1.110	0.5000	5.00	5.00	-0.0	30.0
1,2-Dichloroethane	Ave	0.2544	0.2378	0.1000	4.67	5.00	-6.6	30.0
t-Amyl methyl ether	Ave	0.5517	0.5185		4.70	5.00	-6.0	30.0
n-Heptane	Ave	0.3402	0.3327		4.89	5.00	-2.2	30.0
n-Butanol	Qua		0.1311		196	250	-21.5	30.0
Trichloroethene	Ave	0.2852	0.2772	0.2000	4.86	5.00	-2.8	30.0
Methylcyclohexane	Ave	0.4363	0.4216	0.1000	4.83	5.00	-3.4	30.0
1,2-Dichloropropane	Ave	0.2687	0.2612	0.1000	4.86	5.00	-2.8	30.0
Dibromomethane	Ave	0.1102	0.1063		4.82	5.00	-3.6	30.0
1,4-Dioxane	Ave	0.0639	0.0603	0.0050	118	125	-5.6	30.0
Methyl methacrylate	Ave	10.07	11.38		5.65	5.00	13.0	30.0
Bromodichloromethane	Ave	0.3079	0.3006	0.2000	4.88	5.00	-2.4	30.0
2-Nitropropane	Ave	3.072	2.657		4.33	5.00	-13.5	30.0
1-Bromo-2-chloroethane	Ave	0.2310	0.2284		4.94	5.00	-1.1	30.0
cis-1,3-Dichloropropene	Ave	0.3776	0.3529	0.2000	4.67	5.00	-6.5	30.0
4-Methyl-2-pentanone (MIBK)	Ave	12.72	14.73	0.1000	72.4	62.5	15.9	30.0
Toluene	Ave	0.9636	0.9338	0.4000	4.84	5.00	-3.1	30.0
trans-1,3-Dichloropropene	Ave	0.4032	0.3935	0.1000	4.88	5.00	-2.4	30.0
Ethyl methacrylate	Ave	0.2433	0.2330		4.79	5.00	-4.2	30.0
1,1,2-Trichloroethane	Ave	0.2226	0.2173	0.1000	4.88	5.00	-2.4	30.0
Tetrachloroethene	Ave	0.4348	0.4144	0.2000	4.76	5.00	-4.7	30.0
1,3-Dichloropropane	Ave	0.3847	0.3757		4.88	5.00	-2.3	30.0
2-Hexanone	Ave	8.832	10.40	0.1000	73.6	62.5	17.8	30.0
Dibromochloromethane	Ave	0.2716	0.2656		4.89	5.00	-2.2	30.0
1,2-Dibromoethane (EDB)	Ave	0.1980	0.1911	0.1000	4.83	5.00	-3.5	30.0
1-Chlorohexane	Ave	0.5189	0.4730		4.56	5.00	-8.8	30.0
Chlorobenzene	Ave	1.082	1.028	0.5000	4.75	5.00	-5.0	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3511	0.3440		4.90	5.00	-2.0	30.0
Ethylbenzene	Ave	1.874	1.869	0.1000	4.99	5.00	-0.3	30.0
m&p-Xylene	Ave	0.7230	0.7321	0.1000	10.1	10.0	1.3	30.0
o-Xylene	Ave	0.6903	0.6785	0.3000	4.91	5.00	-1.7	30.0
Styrene	Ave	1.050	1.086	0.3000	5.17	5.00	3.4	30.0
Bromoform	Ave	0.1404	0.1371	0.1000	4.89	5.00	-2.3	30.0
Isopropylbenzene	Ave	1.621	1.826	0.1000	5.63	5.00	12.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4638	0.4486	0.3000	4.84	5.00	-3.3	30.0
Bromobenzene	Ave	0.7776	0.7572		4.87	5.00	-2.6	30.0
trans-1,4-Dichloro-2-butene	Ave	5.416	6.014		27.8	25.0	11.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

Lab Sample ID: ICV 410-581544/21

Calibration Date: 12/03/2024 19:02

Instrument ID: 16334

Calib Start Date: 12/03/2024 16:05

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

Calib End Date: 12/03/2024 18:18

Lab File ID: GD03X20.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.1236	0.1198		4.84	5.00	-3.1	30.0
N-Propylbenzene	Ave	4.178	4.133		4.95	5.00	-1.1	30.0
2-Chlorotoluene	Ave	0.8303	0.8007		4.82	5.00	-3.6	30.0
1,3,5-Trimethylbenzene	Ave	2.946	2.963		5.03	5.00	0.6	30.0
4-Chlorotoluene	Ave	0.8587	0.8252		4.80	5.00	-3.9	30.0
tert-Butylbenzene	Ave	0.6391	0.6332		4.95	5.00	-0.9	30.0
Pentachloroethane	Ave	0.4371	0.4180		4.78	5.00	-4.4	30.0
1,2,4-Trimethylbenzene	Ave	3.016	3.221		5.34	5.00	6.8	30.0
sec-Butylbenzene	Ave	3.818	3.780		4.95	5.00	-1.0	30.0
1,3-Dichlorobenzene	Ave	1.655	1.618	0.6000	4.89	5.00	-2.2	30.0
p-Isopropyltoluene	Ave	3.259	3.247		4.98	5.00	-0.4	30.0
1,4-Dichlorobenzene	Ave	1.691	1.593	0.5000	4.71	5.00	-5.8	30.0
1,2,3-Trimethylbenzene	Ave	1.290	1.258		4.88	5.00	-2.4	30.0
Benzyl chloride	Ave	0.1879	0.1807		4.81	5.00	-3.8	30.0
n-Butylbenzene	Ave	1.672	1.678		5.02	5.00	0.4	30.0
1,2-Dichlorobenzene	Ave	1.436	1.392	0.4000	4.85	5.00	-3.1	30.0
1,2-Dibromo-3-Chloropropane	Ave	2.684	3.127	0.0500	5.82	5.00	16.5	30.0
1,3,5-Trichlorobenzene	Ave	1.301	1.292		4.97	5.00	-0.7	30.0
1,2,4-Trichlorobenzene	Ave	1.037	1.077	0.2000	5.19	5.00	3.8	30.0
Hexachlorobutadiene	Ave	0.5663	0.5755		5.08	5.00	1.6	30.0
Naphthalene	Ave	1.380	1.522		5.51	5.00	10.3	30.0
1,2,3-Trichlorobenzene	Ave	0.8082	0.8408		5.20	5.00	4.0	30.0
Dibromofluoromethane (Surr)	Ave	0.2359	0.2341		9.92	10.0	-0.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0450	0.0445		9.90	10.0	-1.0	30.0
Toluene-d8 (Surr)	Ave	1.388	1.386		9.98	10.0	-0.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4793	0.4786		9.98	10.0	-0.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X20.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 03-Dec-2024 19:02:30 ALS Bottle#: 10 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0132221-021
 Misc. Info.: ICV
 Operator ID: knk41612 Instrument ID: 16334
 Sublist:
 Method: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 09-Dec-2024 09:44:32 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1687

First Level Reviewer: UJML

Date: 09-Dec-2024 10:12:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.703	1.709	-0.006	99	359889	5.00	5.11	
5 Chloromethane	50	1.873	1.879	-0.006	99	397448	5.00	4.70	
7 Butadiene	39	1.959	1.965	-0.006	90	384482	5.00	4.94	
6 Vinyl chloride	62	1.977	1.977	0.000	98	386470	5.00	5.05	
9 Bromomethane	94	2.270	2.269	0.001	91	237755	5.00	4.78	M
10 Chloroethane	64	2.300	2.306	-0.006	99	198257	5.00	5.13	
11 Dichlorofluoromethane	67	2.501	2.507	-0.006	97	500757	5.00	4.62	
12 Trichlorofluoromethane	101	2.593	2.599	-0.006	98	432703	5.00	5.11	
13 Ethyl ether	59	2.763	2.763	0.000	91	134468	5.00	4.33	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.843	2.843	0.001	93	336617	5.00	5.27	
17 Acrolein	56	2.910	2.910	0.000	97	139587	36.6	47.0	M
18 1,1-Dichloroethene	96	3.019	3.025	-0.006	98	252214	5.00	5.08	
19 Acetone	43	3.056	3.062	-0.006	58	237467	62.5	56.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.062	3.068	-0.006	93	239420	5.00	4.58	
21 Isopropyl alcohol	45	3.172	3.178	-0.006	25	18843	37.5	33.6	M
22 Iodomethane	142	3.184	3.190	-0.006	100	408222	5.00	4.25	
23 Ethyl bromide	108	3.214	3.214	0.000	98	216408	5.05	4.95	
24 Carbon disulfide	76	3.275	3.275	0.000	99	803764	5.00	4.42	
25 Methyl acetate	43	3.410	3.409	0.001	22	95276	5.00	5.36	M
27 3-Chloro-1-propene	41	3.422	3.422	0.000	93	378611	5.00	4.39	
29 Methylene Chloride	84	3.580	3.580	0.000	92	266653	5.00	4.86	
* 30 t-Butyl alcohol-d10 (IS)	65	3.623	3.629	-0.006	99	73418	50.0	50.0	
31 2-Methyl-2-propanol	59	3.727	3.720	0.007	81	43645	50.0	50.6	
32 Acrylonitrile	53	3.891	3.879	0.012	99	158607	25.0	27.5	
33 Methyl tert-butyl ether	73	3.928	3.928	0.000	96	518674	5.00	4.68	
34 trans-1,2-Dichloroethene	96	3.928	3.934	-0.006	98	285257	5.00	4.89	
35 Hexane	57	4.324	4.330	-0.006	92	357420	5.00	4.69	
37 1,1-Dichloroethane	63	4.556	4.562	-0.006	96	524371	5.00	4.96	
38 Isopropyl ether	45	4.635	4.635	0.000	93	766510	5.00	4.61	
39 2-Chloro-1,3-butadiene	53	4.678	4.678	0.000	90	365974	5.00	4.52	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.190	5.190	0.000	97	686829	5.00	4.69	
41 2-Butanone (MEK)	43	5.391	5.391	0.000	99	497400	62.5	68.9	
42 cis-1,2-Dichloroethene	96	5.415	5.421	-0.006	82	307722	5.00	4.82	
43 2,2-Dichloropropane	77	5.421	5.440	-0.019	89	417493	5.00	4.64	a
45 Propionitrile	54	5.519	5.488	0.031	97	72083	37.5	37.2	M
48 Methacrylonitrile	67	5.696	5.702	-0.006	90	361064	37.5	46.4	
49 Chlorobromomethane	128	5.757	5.757	0.000	94	120176	5.00	5.02	
50 Tetrahydrofuran	71	5.769	5.781	-0.012	78	59105	25.0	28.6	
51 Chloroform	83	5.915	5.921	-0.006	93	502942	5.00	4.85	
53 1,1,1-Trichloroethane	97	6.135	6.141	-0.006	98	455235	5.00	4.96	
\$ 52 Dibromofluoromethane (Surr)	113	6.135	6.141	-0.006	93	515319	10.0	9.92	
54 Cyclohexane	56	6.238	6.244	-0.006	90	433694	5.00	4.74	
55 Carbon tetrachloride	117	6.354	6.360	-0.006	96	388089	5.00	4.94	
56 1,1-Dichloropropene	75	6.366	6.366	0.000	99	390143	5.00	4.76	
58 Isobutyl alcohol	41	6.580	6.567	0.013	34	40841	125.0	102.2	M
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.598	6.592	0.006	89	98047	10.0	9.90	
60 Benzene	78	6.622	6.628	-0.006	97	1221190	5.00	5.00	
61 1,2-Dichloroethane	62	6.702	6.702	0.000	97	261678	5.00	4.67	
63 Tert-amyl methyl ether	73	6.842	6.842	0.000	99	570605	5.00	4.70	
* 64 Fluorobenzene (IS)	96	7.043	7.049	-0.006	98	2201121	10.0	10.0	
65 n-Heptane	43	7.067	7.073	-0.006	91	366127	5.00	4.89	
67 n-Butanol	56	7.506	7.482	0.024	89	48131	250.0	196.2	
68 Trichloroethene	95	7.537	7.537	0.000	98	305056	5.00	4.86	
69 Methylcyclohexane	83	7.842	7.842	0.000	92	463982	5.00	4.83	
70 1,2-Dichloropropane	63	7.866	7.872	-0.006	97	287515	5.00	4.86	
71 2-ethoxy-2-methyl butane	87	7.903	7.909	-0.006	95	409334	5.00	4.80	
73 1,4-Dioxane	88	7.988	7.976	0.012	28	11073	125.0	118.0	M
74 Dibromomethane	93	7.982	7.982	0.000	98	116943	5.00	4.82	
72 Methyl methacrylate	69	7.988	7.988	0.000	90	83575	5.00	5.65	
76 Dichlorobromomethane	83	8.226	8.232	-0.006	99	330819	5.00	4.88	
77 2-Nitropropane	41	8.512	8.512	0.000	98	19511	5.00	4.33	
79 1-Bromo-2-chloroethane	63	8.622	8.622	0.000	99	251404	5.00	4.94	
81 cis-1,3-Dichloropropene	75	8.799	8.799	0.000	97	388412	5.00	4.67	
82 4-Methyl-2-pentanone (MIBK)	43	9.006	9.006	0.000	96	1352079	62.5	72.4	
\$ 83 Toluene-d8 (Surr)	98	9.134	9.140	-0.006	93	2232814	10.0	9.98	
84 Toluene	92	9.219	9.225	-0.006	98	752277	5.00	4.84	
85 trans-1,3-Dichloropropene	75	9.524	9.518	0.006	92	316996	5.00	4.88	
86 Ethyl methacrylate	69	9.610	9.609	0.001	89	187739	5.00	4.79	
107 1,1,2-Trichloroethane	97	9.738	9.737	0.001	90	175046	5.00	4.88	
108 Tetrachloroethene	166	9.823	9.823	0.000	97	333818	5.00	4.76	
109 1,3-Dichloropropane	76	9.908	9.908	0.000	89	302703	5.00	4.88	
110 2-Hexanone	43	9.988	9.987	0.001	96	954595	62.5	73.6	
112 Chlorodibromomethane	129	10.134	10.134	0.000	90	213942	5.00	4.89	
113 Ethylene Dibromide	107	10.244	10.243	0.001	99	153951	5.00	4.83	
* 114 Chlorobenzene-d5 (IS)	117	10.707	10.707	0.000	85	1611220	10.0	10.0	
116 Chlorobenzene	112	10.731	10.731	0.000	95	828001	5.00	4.75	
115 1-Chlorohexane	91	10.731	10.731	0.000	96	381089	5.00	4.56	
117 1,1,1,2-Tetrachloroethane	131	10.823	10.823	0.000	97	277156	5.00	4.90	
118 Ethylbenzene	91	10.829	10.829	0.000	98	1506040	5.00	4.99	
120 m-Xylene & p-Xylene	106	10.951	10.951	0.000	100	1179666	10.0	10.1	
121 o-Xylene	106	11.292	11.292	0.000	96	546596	5.00	4.91	
122 Styrene	104	11.310	11.310	0.000	95	875190	5.00	5.17	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 Bromoform	173	11.463	11.463	0.000	96	110475	5.00	4.89	
124 Isopropylbenzene	105	11.603	11.603	0.000	96	1470727	5.00	5.63	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.743	11.743	0.000	89	771098	10.0	9.98	
128 1,1,2,2-Tetrachloroethane	83	11.859	11.859	0.000	77	191385	5.00	4.84	
129 Bromobenzene	156	11.859	11.859	0.000	94	323072	5.00	4.87	
130 trans-1,4-Dichloro-2-butene	53	11.884	11.883	0.001	89	220778	25.0	27.8	
131 1,2,3-Trichloropropane	110	11.902	11.902	0.000	80	51096	5.00	4.84	
132 N-Propylbenzene	91	11.938	11.938	0.000	99	1763226	5.00	4.95	
133 2-Chlorotoluene	126	12.012	12.011	0.001	96	341641	5.00	4.82	
134 1,3,5-Trimethylbenzene	105	12.079	12.085	-0.006	94	1264054	5.00	5.03	
135 4-Chlorotoluene	126	12.109	12.103	0.006	97	352086	5.00	4.80	
136 tert-Butylbenzene	134	12.322	12.322	0.000	93	270153	5.00	4.95	
137 Pentachloroethane	167	12.353	12.353	0.000	86	178338	5.00	4.78	
138 1,2,4-Trimethylbenzene	105	12.365	12.365	0.000	98	1374296	5.00	5.34	
139 sec-Butylbenzene	105	12.487	12.487	0.000	94	1612815	5.00	4.95	
140 1,3-Dichlorobenzene	146	12.585	12.585	0.001	98	690517	5.00	4.89	
141 4-Isopropyltoluene	119	12.603	12.603	0.000	97	1385259	5.00	4.98	
* 142 1,4-Dichlorobenzene-d4	152	12.639	12.639	0.000	94	853308	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.658	12.658	0.000	95	679563	5.00	4.71	
144 1,2,3-Trimethylbenzene	120	12.676	12.676	0.000	98	536822	5.00	4.88	
145 Benzyl chloride	126	12.737	12.737	0.000	98	77106	5.00	4.81	a
146 p-Diethylbenzene	119	12.877	12.877	0.000	95	862626	5.00	5.02	
147 n-Butylbenzene	92	12.896	12.895	0.001	97	716074	5.00	5.02	
148 1,2-Dichlorobenzene	146	12.920	12.920	0.000	98	594003	5.00	4.85	
150 1,2-Dibromo-3-Chloropropane	155	13.462	13.462	0.000	87	22956	5.00	5.82	
151 1,3,5-Trichlorobenzene	180	13.591	13.590	0.001	98	551392	5.00	4.97	
152 1,2,4-Trichlorobenzene	180	14.011	14.011	0.000	94	459523	5.00	5.19	
153 Hexachlorobutadiene	225	14.103	14.103	0.001	97	245537	5.00	5.08	
154 Naphthalene	128	14.194	14.188	0.006	97	649239	5.00	5.51	
155 1,2,3-Trichlorobenzene	180	14.334	14.334	0.000	96	358722	5.00	5.20	
156 2-Methylnaphthalene	142	14.920	14.919	0.001	92	357372	5.00	5.79	
167 Pentane	43	2.763	2.769	-0.006	40	22289	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LCS_Penta_00048	Amount Added: 12.50	Units: uL	
MSV_LCS_VOC#1_00197	Amount Added: 12.50	Units: uL	
LCS_ETBR_00009	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00234	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00201	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00010	Amount Added: 12.50	Units: uL	
MSV_29_826ISS_00057	Amount Added: 1.20	Units: uL	Run Reagent

Report Date: 09-Dec-2024 11:47:10

Chrom Revision: 2.3 12-Nov-2024 16:55:22

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X20.D

Injection Date: 03-Dec-2024 19:02:30

Instrument ID: 16334

Operator ID: knk41612

Lims ID: ICV

Worklist Smp#: 21

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

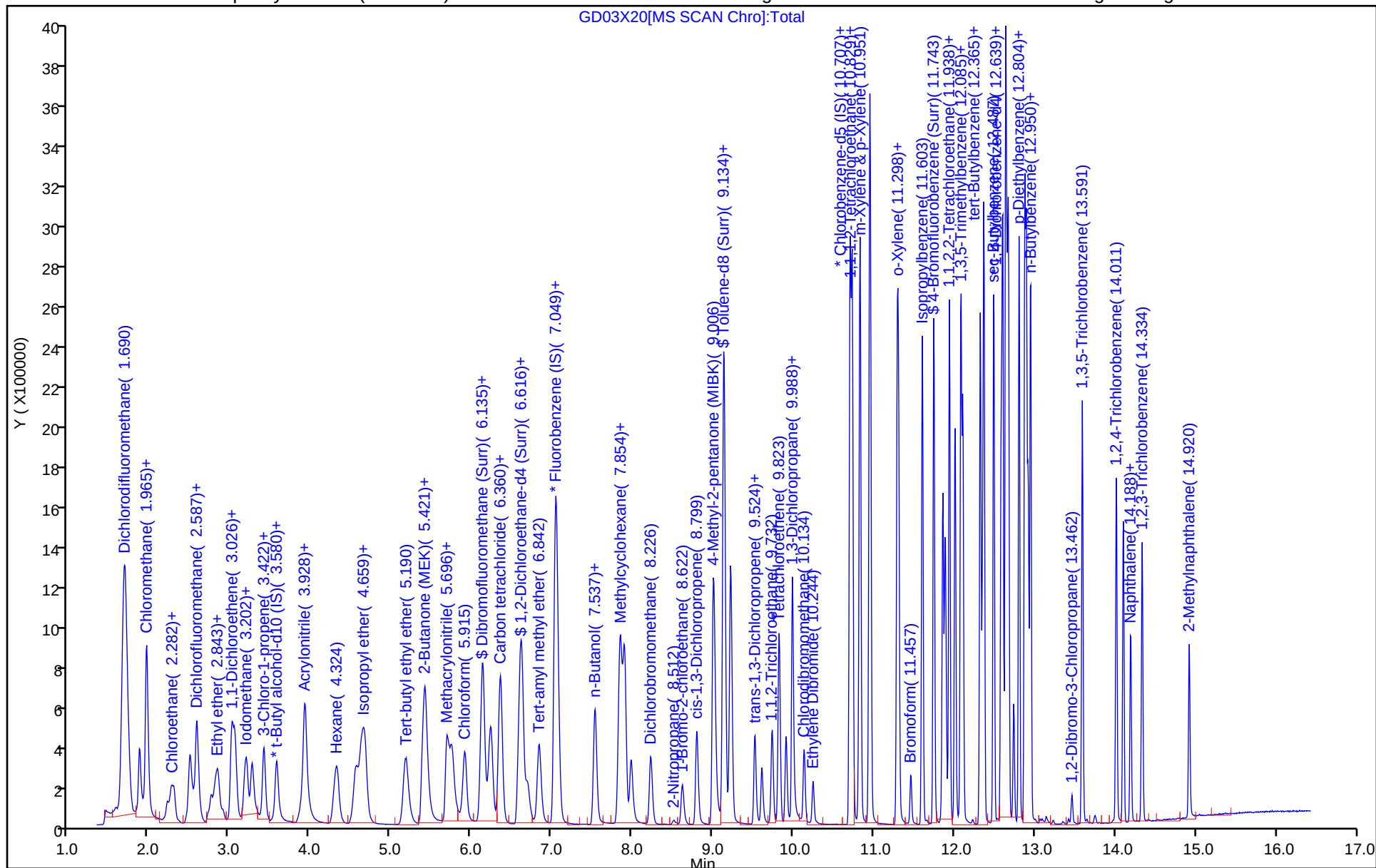
ALS Bottle#: 10

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

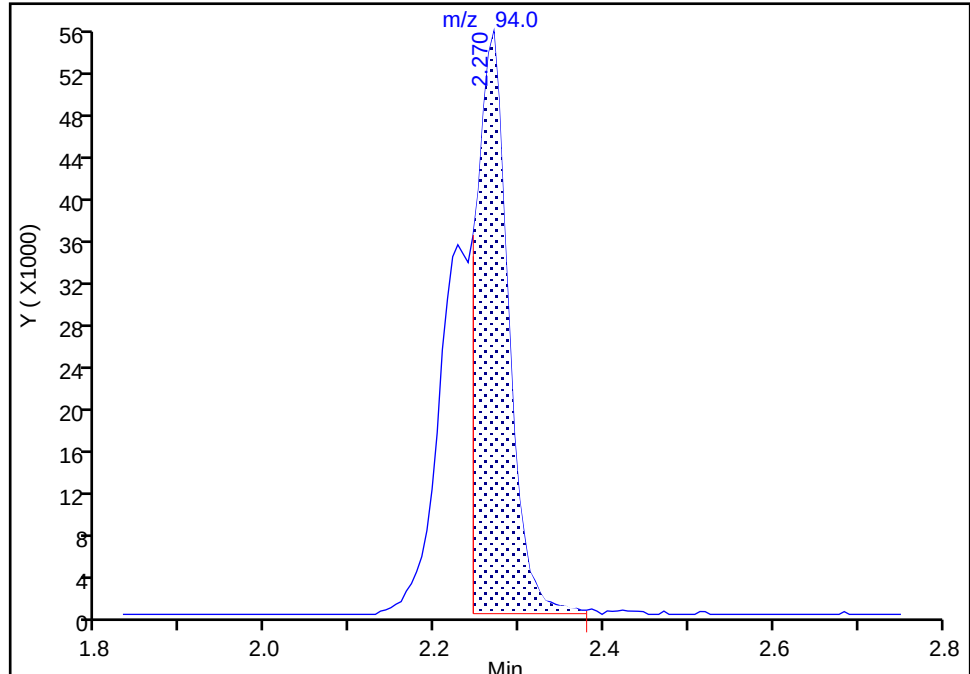
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X20.D
Injection Date: 03-Dec-2024 19:02:30 Instrument ID: 16334
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 10 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

9 Bromomethane, CAS: 74-83-9

Signal: 1

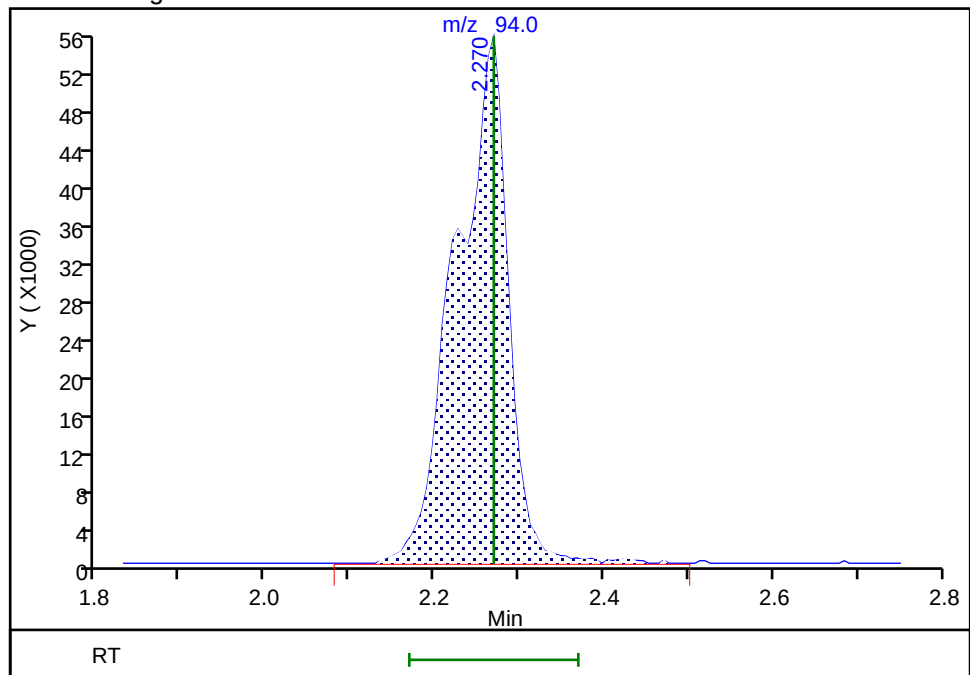
RT: 2.27
Area: 145813
Amount: 3.061869
Amount Units: ug/l

Processing Integration Results



RT: 2.27
Area: 237755
Amount: 4.777917
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:39:58 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

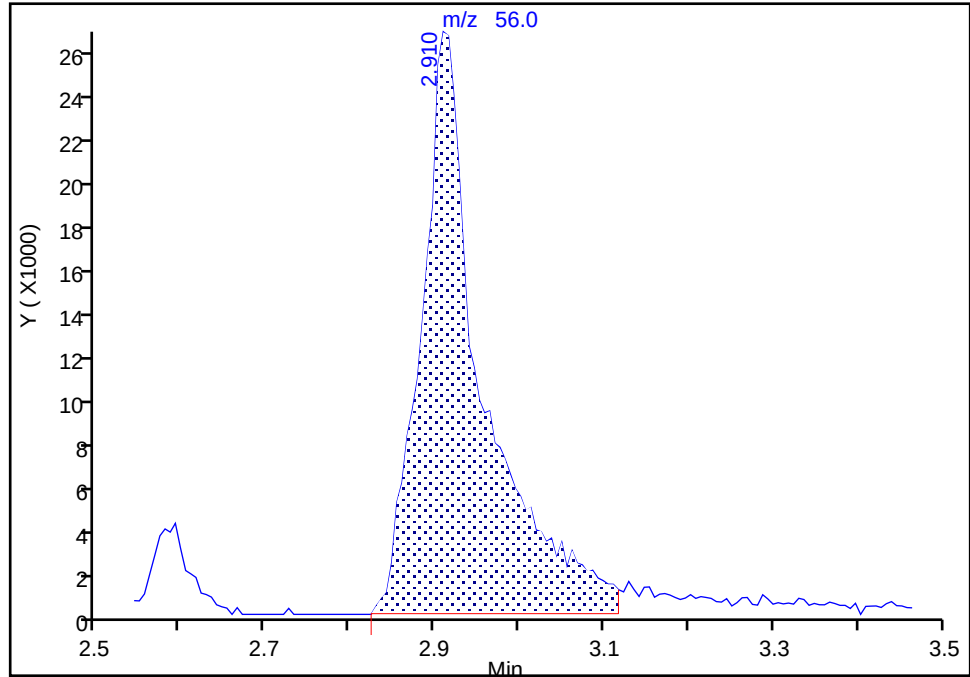
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X20.D
Injection Date: 03-Dec-2024 19:02:30 Instrument ID: 16334
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 10 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

17 Acrolein, CAS: 107-02-8

Signal: 1

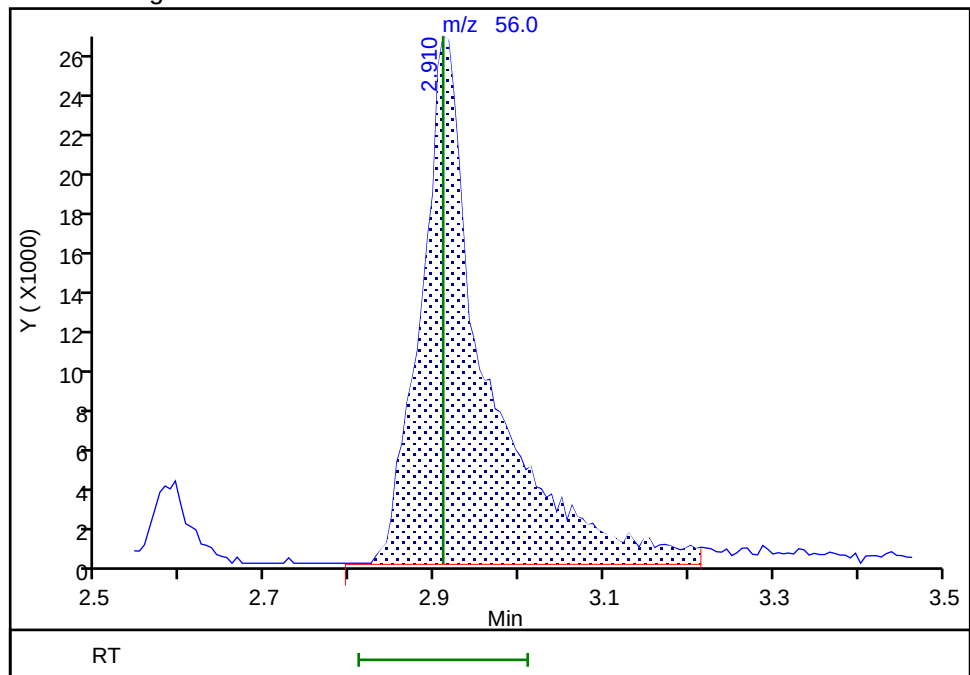
RT: 2.91
Area: 134224
Amount: 56.166044
Amount Units: ug/l

Processing Integration Results



RT: 2.91
Area: 139587
Amount: 47.023381
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:40:50 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

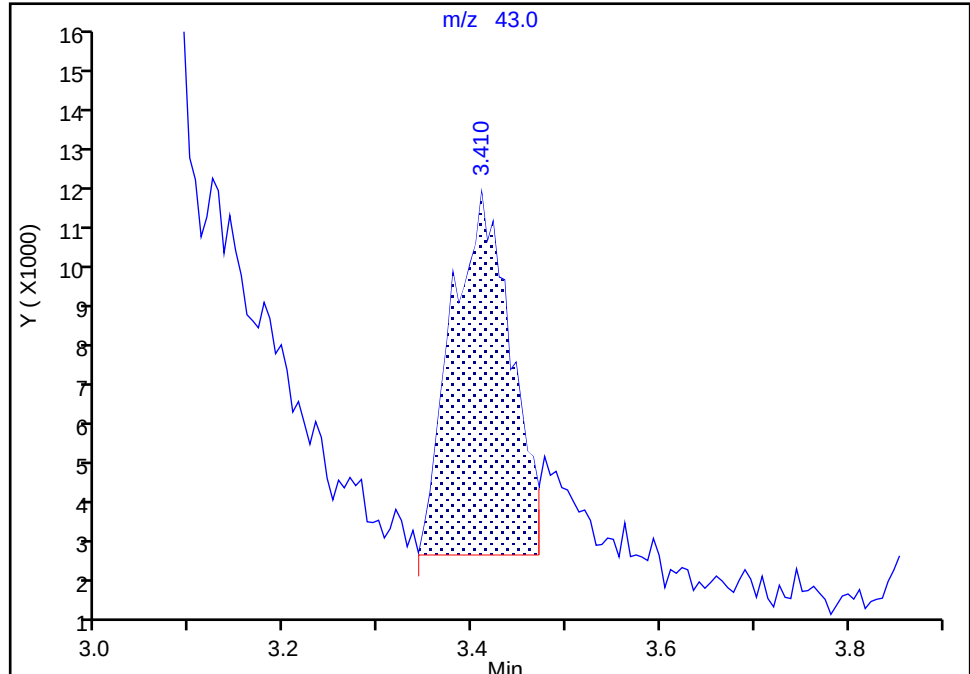
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X20.D
Injection Date: 03-Dec-2024 19:02:30 Instrument ID: 16334
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 10 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Methyl acetate, CAS: 79-20-9

Signal: 1

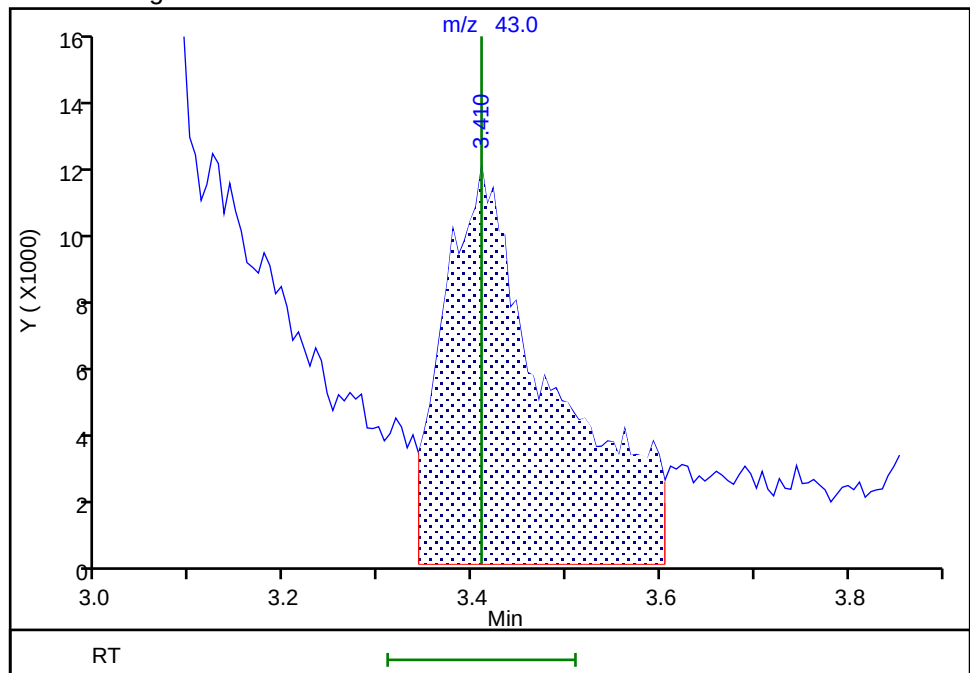
RT: 3.41
Area: 37504
Amount: 3.096705
Amount Units: ug/l

Processing Integration Results



RT: 3.41
Area: 95276
Amount: 5.362748
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 08-Dec-2024 12:06:14 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

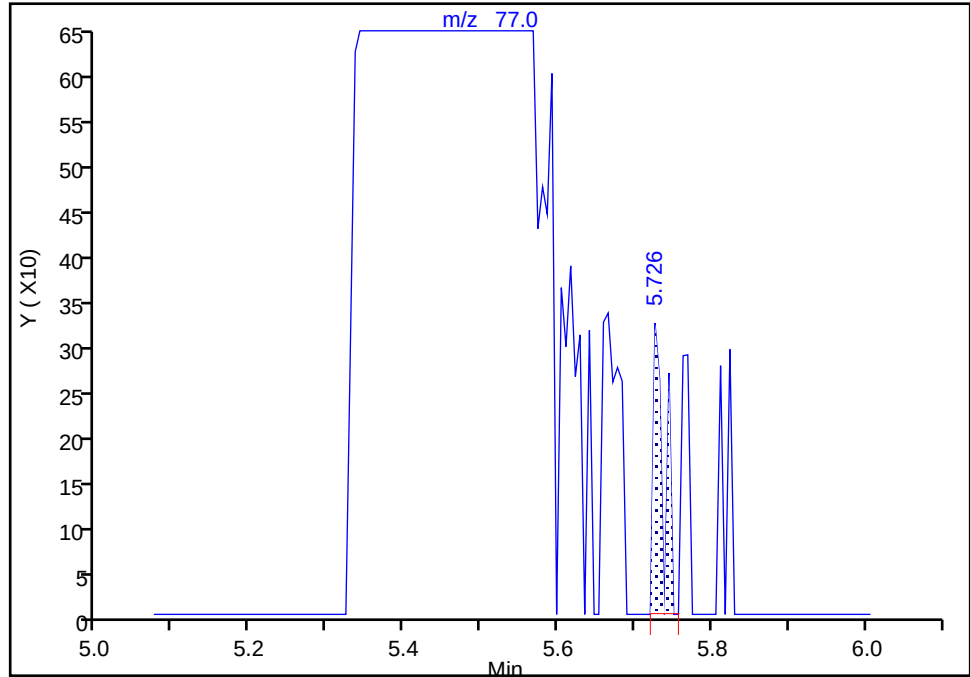
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X20.D
Injection Date: 03-Dec-2024 19:02:30 Instrument ID: 16334
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 10 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

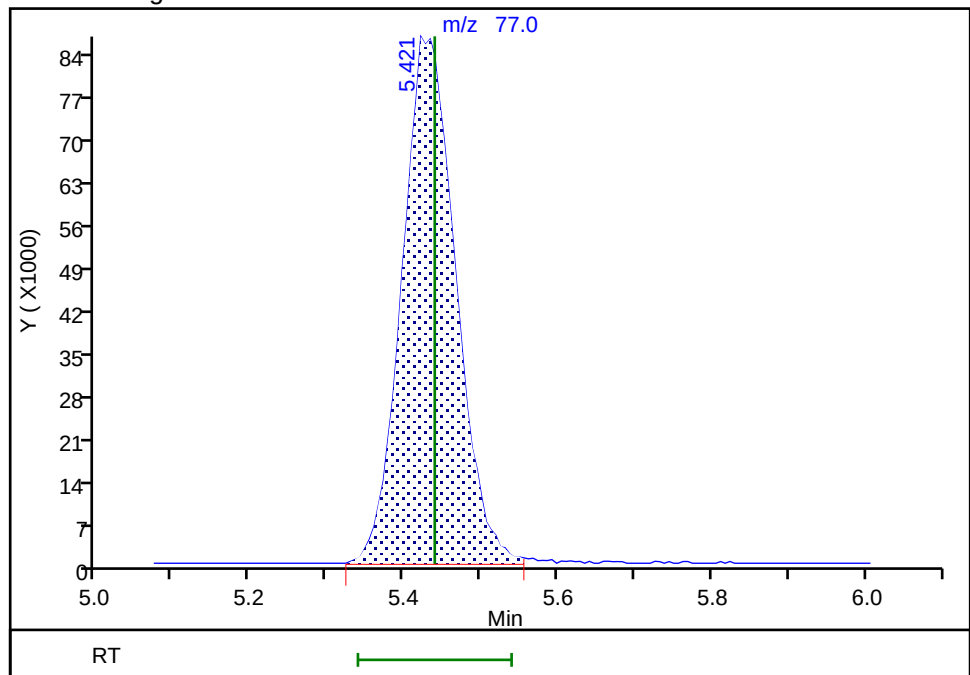
RT: 5.73
Area: 309
Amount: 0.003434
Amount Units: ug/l

Processing Integration Results



RT: 5.42
Area: 417493
Amount: 4.639480
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:43:28 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

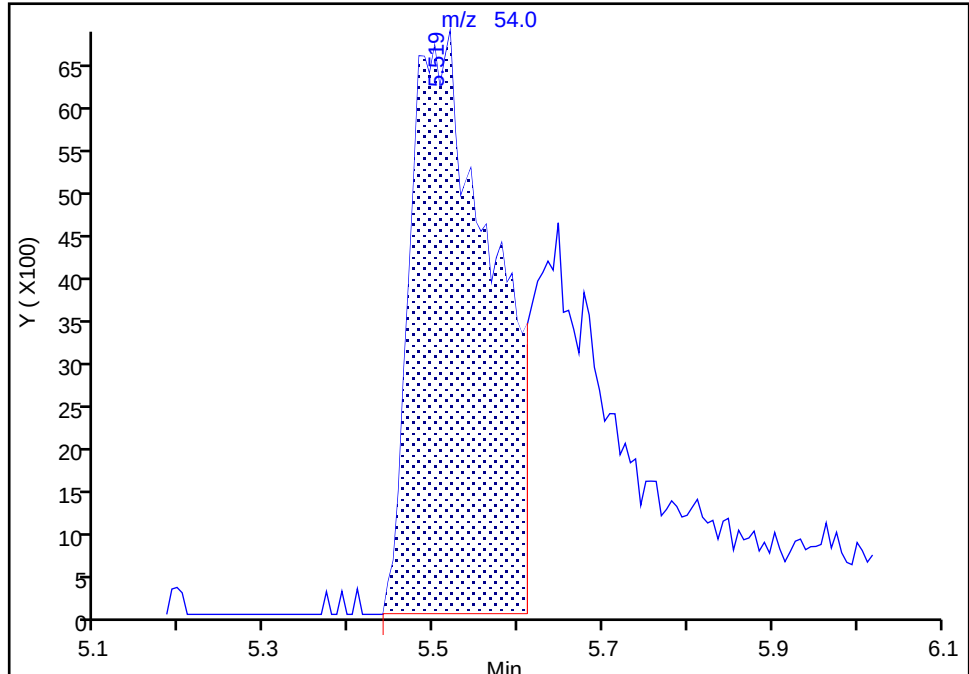
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X20.D
Injection Date: 03-Dec-2024 19:02:30 Instrument ID: 16334
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 10 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

45 Propionitrile, CAS: 107-12-0

Signal: 1

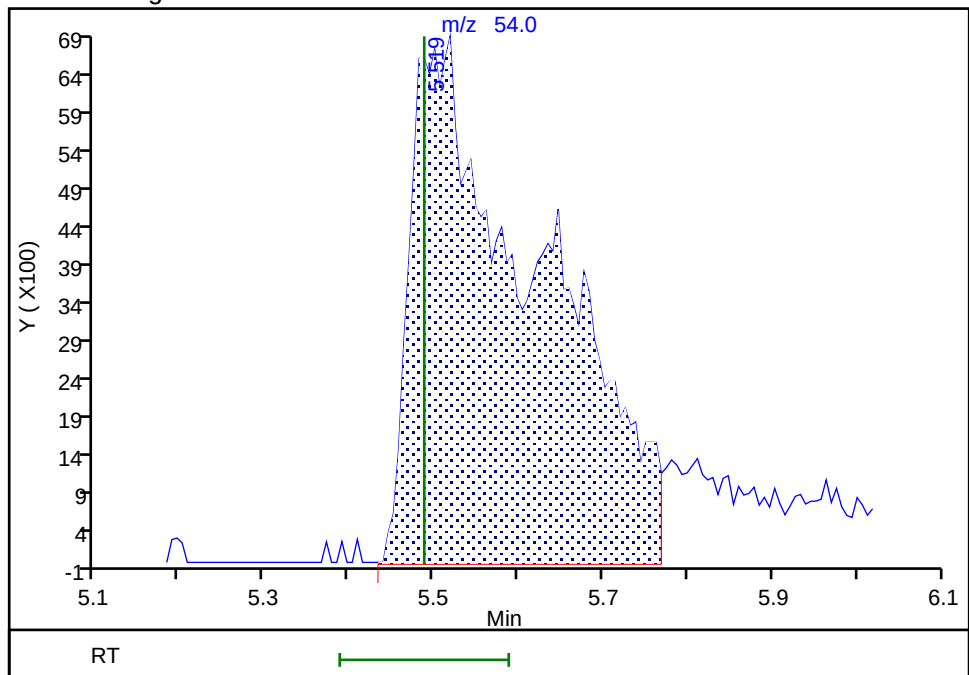
RT: 5.52
Area: 45525
Amount: 24.988904
Amount Units: ug/l

Processing Integration Results



RT: 5.52
Area: 72083
Amount: 37.232552
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:43:40 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

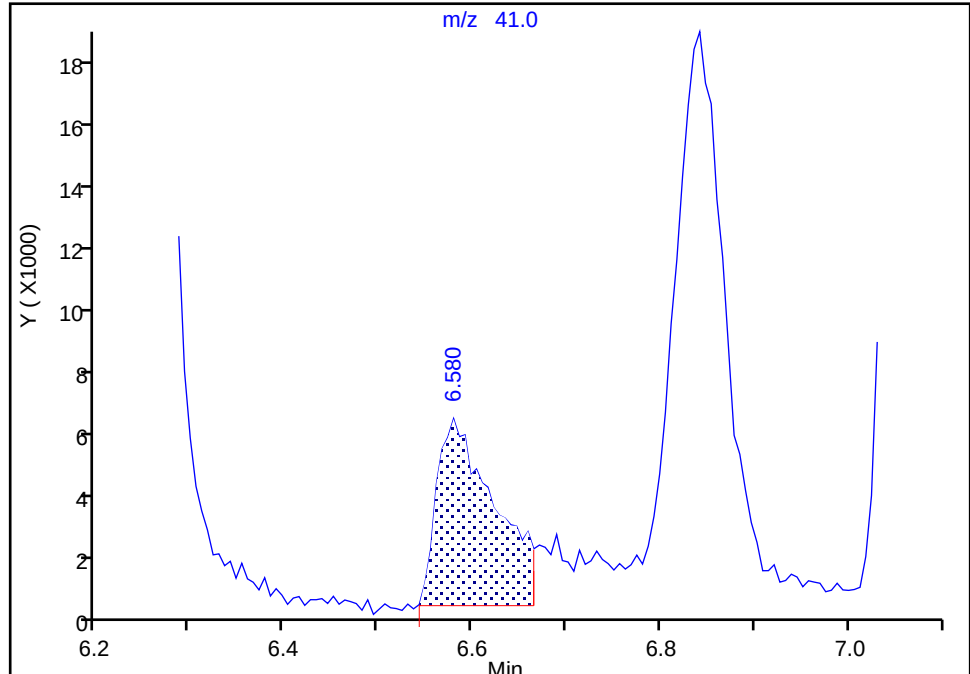
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X20.D
Injection Date: 03-Dec-2024 19:02:30 Instrument ID: 16334
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 10 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

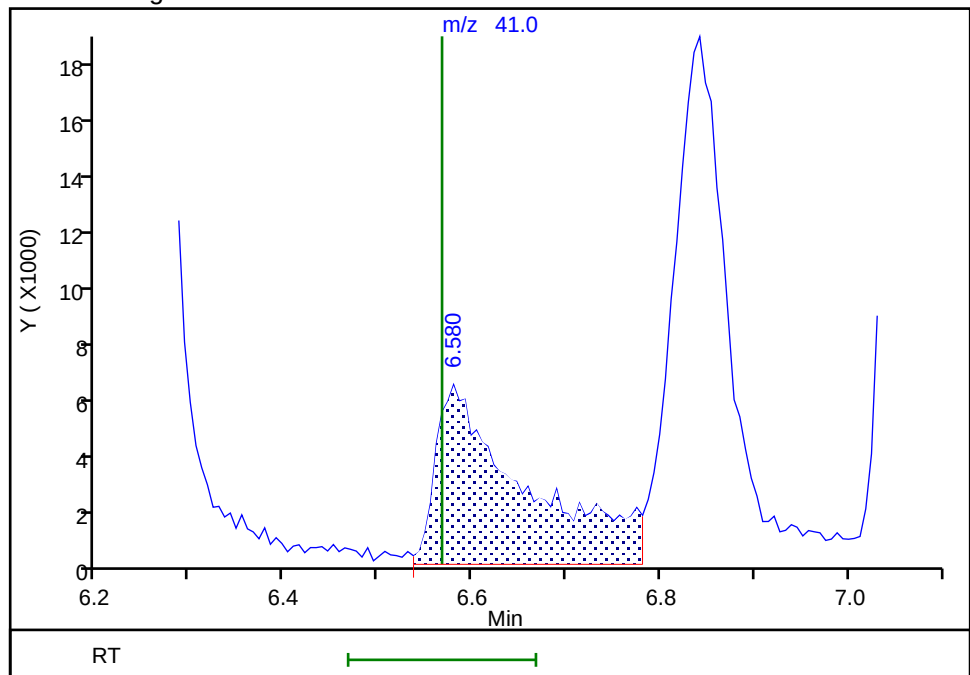
RT: 6.58
Area: 24949
Amount: 62.414413
Amount Units: ug/l

Processing Integration Results



RT: 6.58
Area: 40841
Amount: 102.1711
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:43:56 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

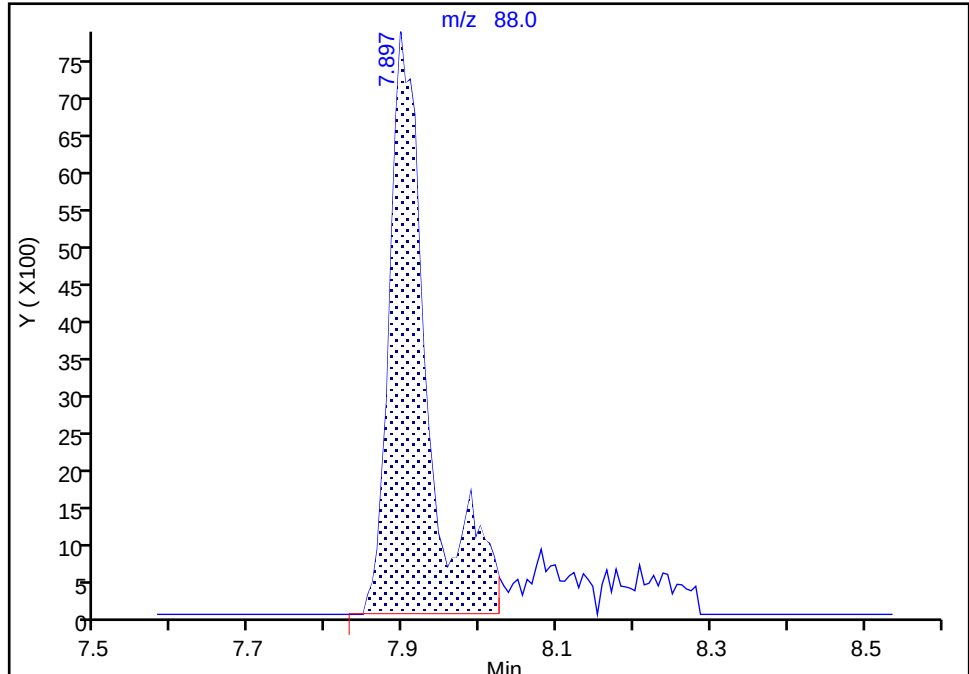
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Injection Date: 03-Dec-2024 19:02:30 Instrument ID: 16334
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 10 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

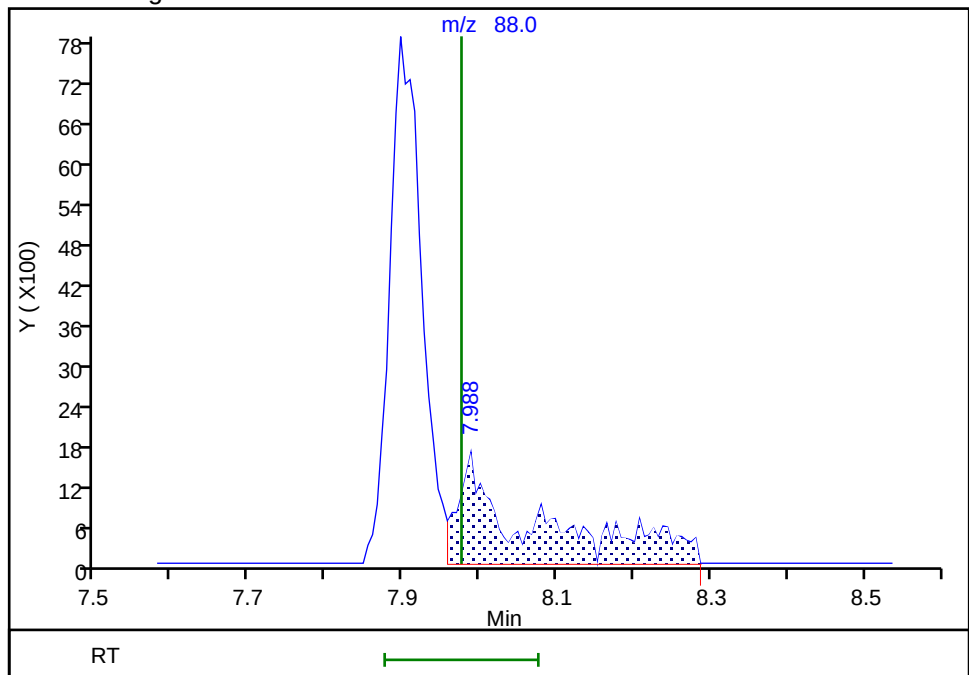
RT: 7.90
Area: 26669
Amount: 281.0798
Amount Units: ug/l

Processing Integration Results



RT: 7.99
Area: 11073
Amount: 117.9766
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:44:09 -05:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

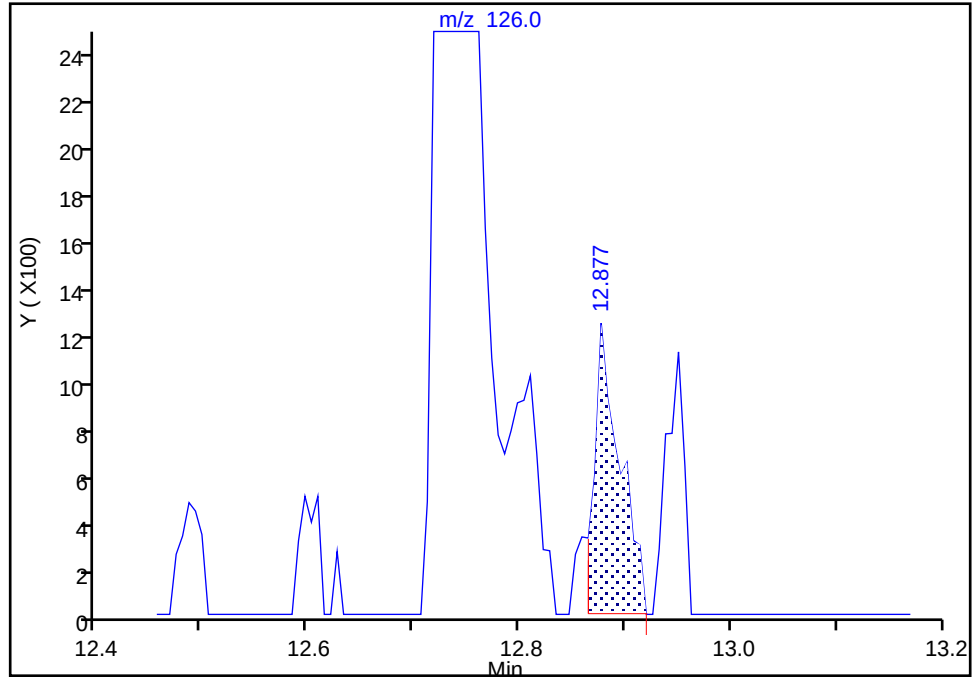
Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X20.D
Injection Date: 03-Dec-2024 19:02:30 Instrument ID: 16334
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 10 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

145 Benzyl chloride, CAS: 100-44-7

Signal: 1

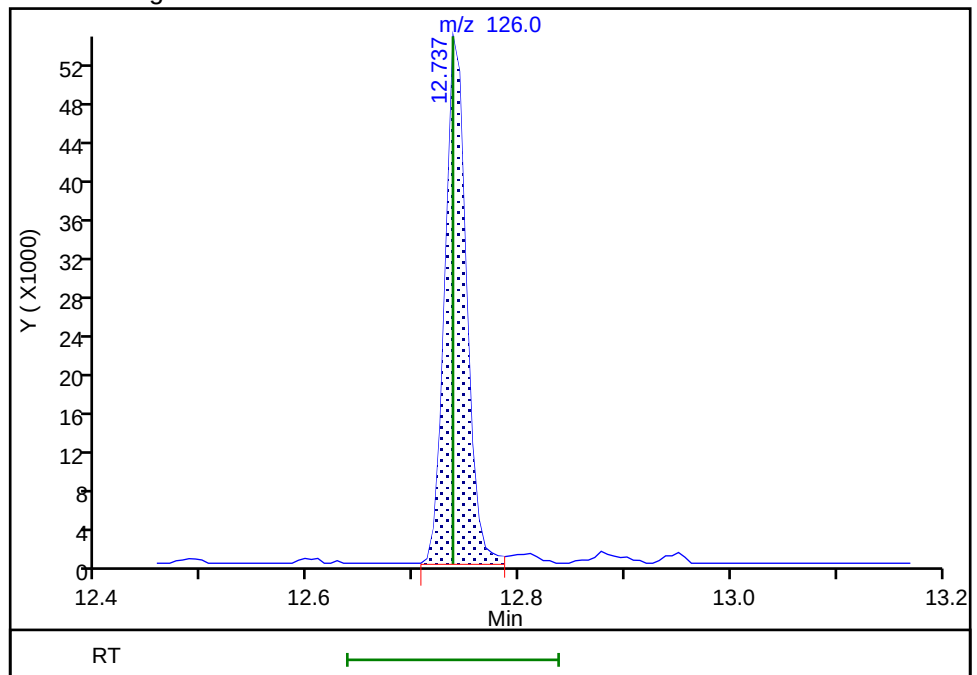
RT: 12.88
Area: 2077
Amount: 0.129555
Amount Units: ug/l

Processing Integration Results



RT: 12.74
Area: 77106
Amount: 4.809573
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 04-Dec-2024 08:44:21 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

Lab Sample ID: CCVIS 410-624273/3

Calibration Date: 03/31/2025 23:22

Instrument ID: 16334

Calib Start Date: 12/03/2024 16:05

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

Calib End Date: 12/03/2024 18:18

Lab File ID: GM31X02.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	0.3199	0.3532	0.1000	11.0	10.0	10.4	20.0
Chloromethane	Ave	0.3838	0.3301	0.1000	8.60	10.0	-14.0	20.0
1,3-Butadiene	Ave	0.3533	0.4256		12.0	10.0	20.5*	20.0
Vinyl chloride	Ave	0.3476	0.2793	0.1000	8.03	10.0	-19.7	20.0
Bromomethane	Ave	0.2261	0.2287	0.1000	10.1	10.0	1.1	20.0
Chloroethane	Ave	0.1756	0.1669	0.1000	9.51	10.0	-4.9	20.0
Dichlorofluoromethane	Ave	0.4919	0.4647		9.45	10.0	-5.5	20.0
Trichlorofluoromethane	Ave	0.3850	0.4302	0.1000	11.2	10.0	11.7	20.0
Ethyl ether	Ave	0.1410	0.1739		12.3	10.0	23.3*	20.0
Pentane	None					10.0		20.0
Freon 123a	Ave	0.2903	0.3504		12.1	10.0	20.7*	20.0
Acrolein	Ave	2.022	2.727		658	488	34.9*	20.0
1,1-Dichloroethene	Ave	0.2255	0.2384	0.1000	10.6	10.0	5.7	20.0
Acetone	Ave	2.869	2.987	0.1000	104	100	4.1	20.0
Freon 113	Ave	0.2374	0.2819	0.1000	11.9	10.0	18.8	20.0
Methyl iodide	Ave	0.4363	0.4632		10.6	10.0	6.2	20.0
Ethyl bromide	Ave	0.1987	0.2222		11.2	10.0	11.8	20.0
Carbon disulfide	Ave	0.8268	0.9405	0.1000	11.4	10.0	13.8	20.0
Allyl chloride	Ave	0.3919	0.3648		9.31	10.0	-6.9	20.0
Methyl acetate	Ave	12.10	9.324	0.1000	7.71	10.0	-22.9*	20.0
Methylene Chloride	Ave	0.2494	0.2718	0.1000	10.9	10.0	9.0	20.0
t-Butyl alcohol	Ave	0.5876	0.7707		262	200	31.2*	20.0
Acrylonitrile	Ave	3.929	5.001		31.8	25.0	27.3*	20.0
Methyl tert-butyl ether	Ave	0.5032	0.5326	0.1000	10.6	10.0	5.8	20.0
trans-1,2-Dichloroethene	Ave	0.2650	0.2829	0.1000	10.7	10.0	6.8	20.0
n-Hexane	Ave	0.3462	0.3819		11.0	10.0	10.3	20.0
1,1-Dichloroethane	Ave	0.4802	0.4977	0.2000	10.4	10.0	3.7	20.0
di-Isopropyl ether	Ave	0.7550	0.7837		10.4	10.0	3.8	20.0
2-Chloro-1,3-butadiene	Ave	0.3676	0.4050		11.0	10.0	10.2	20.0
Ethyl t-butyl ether	Ave	0.6649	0.7209		10.8	10.0	8.4	20.0
2-Butanone (MEK)	Ave	4.916	5.527	0.1000	112	100	12.4	20.0
cis-1,2-Dichloroethene	Ave	0.2899	0.3208	0.1000	11.1	10.0	10.7	20.0
2,2-Dichloropropane	Ave	0.4088	0.4515		11.0	10.0	10.5	20.0
Propionitrile	Qua		1.609		221	200	10.4	20.0
Methacrylonitrile	Ave	5.302	7.226		136	100	36.3*	20.0
Bromochloromethane	Ave	0.1088	0.1338		12.3	10.0	23.0*	20.0
Tetrahydrofuran	Ave	1.407	1.798		63.9	50.0	27.8*	20.0
Chloroform	Ave	0.4711	0.5219	0.2000	11.1	10.0	10.8	20.0
1,1,1-Trichloroethane	Ave	0.4171	0.4588	0.1000	11.0	10.0	10.0	20.0
Cyclohexane	Ave	0.4159	0.4639	0.1000	11.2	10.0	11.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

Lab Sample ID: CCVIS 410-624273/3

Calibration Date: 03/31/2025 23:22

Instrument ID: 16334

Calib Start Date: 12/03/2024 16:05

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

Calib End Date: 12/03/2024 18:18

Lab File ID: GM31X02.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.3567	0.4146	0.1000	11.6	10.0	16.2	20.0
1,1-Dichloropropene	Ave	0.3721	0.4127		11.1	10.0	10.9	20.0
Isobutyl alcohol	Ave	0.0018	0.0021		580	500	16.1	20.0
Benzene	Ave	1.110	1.215	0.5000	10.9	10.0	9.5	20.0
1,2-Dichloroethane	Ave	0.2544	0.2774	0.1000	10.9	10.0	9.0	20.0
t-Amyl methyl ether	Ave	0.5517	0.6089		11.0	10.0	10.4	20.0
n-Heptane	Ave	0.3402	0.3670		10.8	10.0	7.9	20.0
n-Butanol	Qua		0.2241		946	875	8.1	20.0
Trichloroethene	Ave	0.2852	0.3198	0.2000	11.2	10.0	12.1	20.0
Methylcyclohexane	Ave	0.4363	0.5379	0.1000	12.3	10.0	23.3*	20.0
1,2-Dichloropropane	Ave	0.2687	0.2977	0.1000	11.1	10.0	10.8	20.0
1,4-Dioxane	Ave	0.0639	0.0770	0.0050	602	500	20.5*	20.0
Dibromomethane	Ave	0.1102	0.1280		11.6	10.0	16.1	20.0
Methyl methacrylate	Ave	10.07	12.62		12.5	10.0	25.3*	20.0
Bromodichloromethane	Ave	0.3079	0.3567	0.2000	11.6	10.0	15.9	20.0
2-Nitropropane	Ave	3.072	3.529		57.4	50.0	14.9	20.0
1-Bromo-2-chloroethane	Ave	0.2310	0.2641		11.4	10.0	14.3	20.0
cis-1,3-Dichloropropene	Ave	0.3776	0.4253	0.2000	11.3	10.0	12.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	12.72	15.11	0.1000	119	100	18.9	20.0
Toluene	Ave	0.9636	1.007	0.4000	10.5	10.0	4.5	20.0
trans-1,3-Dichloropropene	Ave	0.4032	0.4314	0.1000	10.7	10.0	7.0	20.0
Ethyl methacrylate	Ave	0.2433	0.2789		11.5	10.0	14.6	20.0
1,1,2-Trichloroethane	Ave	0.2226	0.2411	0.1000	10.8	10.0	8.4	20.0
Tetrachloroethene	Ave	0.4348	0.4433	0.2000	10.2	10.0	1.9	20.0
1,3-Dichloropropane	Ave	0.3847	0.4144		10.8	10.0	7.7	20.0
2-Hexanone	Ave	8.832	9.858	0.1000	112	100	11.6	20.0
Dibromochloromethane	Ave	0.2716	0.3166		11.7	10.0	16.6	20.0
1,2-Dibromoethane (EDB)	Ave	0.1980	0.2232	0.1000	11.3	10.0	12.7	20.0
1-Chlorohexane	Ave	0.5189	0.5525		10.6	10.0	6.5	20.0
Chlorobenzene	Ave	1.082	1.165	0.5000	10.8	10.0	7.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3511	0.3970		11.3	10.0	13.1	20.0
Ethylbenzene	Ave	1.874	2.014	0.1000	10.7	10.0	7.5	20.0
m&p-Xylene	Ave	0.7230	0.7980	0.1000	22.1	20.0	10.4	20.0
o-Xylene	Ave	0.6903	0.7663	0.3000	11.1	10.0	11.0	20.0
Styrene	Ave	1.050	1.210	0.3000	11.5	10.0	15.2	20.0
Bromoform	Ave	0.1404	0.1612	0.1000	11.5	10.0	14.9	20.0
Isopropylbenzene	Ave	1.621	1.768	0.1000	10.9	10.0	9.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.4638	0.5223	0.3000	11.3	10.0	12.6	20.0
Bromobenzene	Ave	0.7776	0.8159		10.5	10.0	4.9	20.0
trans-1,4-Dichloro-2-butene	Ave	5.416	2.981		55.0	100	-45.0*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

Lab Sample ID: CCVIS 410-624273/3

Calibration Date: 03/31/2025 23:22

Instrument ID: 16334

Calib Start Date: 12/03/2024 16:05

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

Calib End Date: 12/03/2024 18:18

Lab File ID: GM31X02.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.1236	0.1380		11.2	10.0	11.6	20.0
N-Propylbenzene	Ave	4.178	4.425		10.6	10.0	5.9	20.0
2-Chlorotoluene	Ave	0.8303	0.8834		10.6	10.0	6.4	20.0
1,3,5-Trimethylbenzene	Ave	2.946	3.160		10.7	10.0	7.3	20.0
4-Chlorotoluene	Ave	0.8587	0.9107		10.6	10.0	6.0	20.0
tert-Butylbenzene	Ave	0.6391	0.6966		10.9	10.0	9.0	20.0
Pentachloroethane	Ave	0.4371	0.5036		11.5	10.0	15.2	20.0
1,2,4-Trimethylbenzene	Ave	3.016	3.236		10.7	10.0	7.3	20.0
sec-Butylbenzene	Ave	3.818	4.089		10.7	10.0	7.1	20.0
1,3-Dichlorobenzene	Ave	1.655	1.748	0.6000	10.6	10.0	5.6	20.0
p-Isopropyltoluene	Ave	3.259	3.564		10.9	10.0	9.4	20.0
1,4-Dichlorobenzene	Ave	1.691	1.739	0.5000	10.3	10.0	2.8	20.0
1,2,3-Trimethylbenzene	Ave	1.290	1.424		11.0	10.0	10.4	20.0
Benzyl chloride	Ave	0.1879	0.2182		11.6	10.0	16.2	20.0
n-Butylbenzene	Ave	1.672	1.816		10.9	10.0	8.6	20.0
1,2-Dichlorobenzene	Ave	1.436	1.511	0.4000	10.5	10.0	5.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	2.684	3.320	0.0500	12.4	10.0	23.7*	20.0
1,3,5-Trichlorobenzene	Ave	1.301	1.354		10.4	10.0	4.1	20.0
1,2,4-Trichlorobenzene	Ave	1.037	1.038	0.2000	10.0	10.0	0.0	20.0
Hexachlorobutadiene	Ave	0.5663	0.5670		10.0	10.0	0.1	20.0
Naphthalene	Ave	1.380	1.444		10.5	10.0	4.6	20.0
1,2,3-Trichlorobenzene	Ave	0.8082	0.8045		9.95	10.0	-0.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2359	0.2381		10.1	10.0	0.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0450	0.0433		9.61	10.0	-3.8	20.0
Toluene-d8 (Surr)	Ave	1.388	1.319		9.50	10.0	-5.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4793	0.4912		10.2	10.0	2.5	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X02.D
 Lims ID: CCVIS VSTD10
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 31-Mar-2025 23:22:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-003
 Misc. Info.: CCVIS VSTD10
 Operator ID: gaw91131 Instrument ID: 16334
 Sublist: chrom-MSV_16334_25mL*sub4
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Apr-2025 01:33:09 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1623

First Level Reviewer: JS6E

Date: 01-Apr-2025 00:07:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.715	1.715	0.000	99	525171	10.0	11.0	
5 Chloromethane	50	1.885	1.885	0.000	99	490879	10.0	8.60	
7 Butadiene	39	1.977	1.977	0.000	91	632869	10.0	12.0	
6 Vinyl chloride	62	1.983	1.983	0.000	98	415251	10.0	8.03	
9 Bromomethane	94	2.276	2.276	0.000	91	339991	10.0	10.1	
10 Chloroethane	64	2.318	2.318	0.000	99	248206	10.0	9.51	
11 Dichlorofluoromethane	67	2.519	2.519	0.000	97	691008	10.0	9.45	
12 Trichlorofluoromethane	101	2.599	2.599	0.000	97	639659	10.0	11.2	
13 Ethyl ether	59	2.775	2.775	0.000	90	258585	10.0	12.3	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.861	2.861	0.000	91	521008	10.0	12.1	
17 Acrolein	56	2.916	2.916	0.000	99	1522283	487.9	658.3	
18 1,1-Dichloroethene	96	3.038	3.038	0.000	97	354438	10.0	10.6	
19 Acetone	43	3.068	3.068	0.000	100	341665	100.0	104.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.074	3.074	0.000	93	419153	10.0	11.9	
22 Iodomethane	142	3.202	3.202	0.000	100	688681	10.0	10.6	
23 Ethyl bromide	108	3.220	3.220	0.000	99	330912	10.0	11.2	
21 Isopropyl alcohol	45	3.227	3.227	0.000	28	91315	200.0	241.4	
24 Carbon disulfide	76	3.300	3.300	0.000	99	1398475	10.0	11.4	
25 Methyl acetate	43	3.434	3.434	0.000	26	106660	10.0	7.71	M
27 3-Chloro-1-propene	41	3.434	3.434	0.000	93	542360	10.0	9.31	
29 Methylene Chloride	84	3.592	3.592	0.000	89	404184	10.0	10.9	
* 30 t-Butyl alcohol-d10 (IS)	65	3.617	3.617	0.000	97	57194	50.0	50.0	M
31 2-Methyl-2-propanol	59	3.720	3.720	0.000	99	176318	200.0	262.3	
32 Acrylonitrile	53	3.903	3.903	0.000	100	143019	25.0	31.8	
33 Methyl tert-butyl ether	73	3.946	3.946	0.000	77	791911	10.0	10.6	
34 trans-1,2-Dichloroethene	96	3.946	3.946	0.000	99	420617	10.0	10.7	
35 Hexane	57	4.342	4.342	0.000	90	567822	10.0	11.0	
37 1,1-Dichloroethane	63	4.574	4.574	0.000	96	740079	10.0	10.4	
38 Isopropyl ether	45	4.653	4.653	0.000	93	1165355	10.0	10.4	
39 2-Chloro-1,3-butadiene	53	4.690	4.690	0.000	89	602249	10.0	11.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.196	5.196	0.000	97	1071942	10.0	10.8	
41 2-Butanone (MEK)	43	5.421	5.421	0.000	99	632208	100.0	112.4	
42 cis-1,2-Dichloroethene	96	5.433	5.433	0.000	81	477068	10.0	11.1	
43 2,2-Dichloropropane	77	5.446	5.446	0.000	84	671413	10.0	11.0	
45 Propionitrile	54	5.513	5.513	0.000	98	368113	200.0	220.8	
48 Methacrylonitrile	67	5.720	5.720	0.000	89	826578	100.0	136.3	
49 Chlorobromomethane	128	5.775	5.775	0.000	89	198898	10.0	12.3	
50 Tetrahydrofuran	71	5.793	5.793	0.000	81	102838	50.0	63.9	
51 Chloroform	83	5.933	5.933	0.000	92	776096	10.0	11.1	
\$ 52 Dibromofluoromethane (Surr)	113	6.153	6.153	0.000	93	354029	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.159	6.159	0.000	98	682124	10.0	11.0	
54 Cyclohexane	56	6.256	6.256	0.000	88	689728	10.0	11.2	
55 Carbon tetrachloride	117	6.372	6.372	0.000	95	616494	10.0	11.6	
56 1,1-Dichloropropene	75	6.378	6.378	0.000	98	613656	10.0	11.1	
58 Isobutyl alcohol	41	6.586	6.586	0.000	90	156684	500.0	580.3	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.616	0.000	76	64351	10.0	9.61	
60 Benzene	78	6.641	6.641	0.000	96	1807103	10.0	10.9	
61 1,2-Dichloroethane	62	6.714	6.714	0.000	97	412458	10.0	10.9	
63 Tert-amyl methyl ether	73	6.854	6.854	0.000	99	905386	10.0	11.0	
* 64 Fluorobenzene (IS)	96	7.061	7.061	0.000	99	1486867	10.0	10.0	
65 n-Heptane	43	7.086	7.086	0.000	89	545711	10.0	10.8	
67 n-Butanol	56	7.494	7.494	0.000	87	224303	875.0	945.9	
68 Trichloroethene	95	7.549	7.549	0.000	98	475557	10.0	11.2	
69 Methylcyclohexane	83	7.848	7.848	0.000	89	799868	10.0	12.3	
70 1,2-Dichloropropane	63	7.878	7.878	0.000	96	442670	10.0	11.1	
71 2-ethoxy-2-methyl butane	87	7.915	7.915	0.000	95	661609	10.0	11.5	
73 1,4-Dioxane	88	7.988	7.988	0.000	31	44047	500.0	602.4	M
74 Dibromomethane	93	7.994	7.994	0.000	98	190305	10.0	11.6	
72 Methyl methacrylate	69	7.994	7.994	0.000	90	144413	10.0	12.5	
76 Dichlorobromomethane	83	8.238	8.238	0.000	99	530435	10.0	11.6	
77 2-Nitropropane	41	8.518	8.518	0.000	99	201855	50.0	57.4	
79 1-Bromo-2-chloroethane	63	8.628	8.628	0.000	99	392646	10.0	11.4	
81 cis-1,3-Dichloropropene	75	8.805	8.805	0.000	97	632370	10.0	11.3	
82 4-Methyl-2-pentanone (MIBK)	43	9.012	9.012	0.000	96	1728960	100.0	118.9	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1499230	10.0	9.50	
84 Toluene	92	9.225	9.225	0.000	98	1145002	10.0	10.5	
85 trans-1,3-Dichloropropene	75	9.524	9.524	0.000	91	490503	10.0	10.7	
86 Ethyl methacrylate	69	9.609	9.609	0.000	87	317077	10.0	11.5	
107 1,1,2-Trichloroethane	97	9.738	9.738	0.000	90	274175	10.0	10.8	
108 Tetrachloroethene	166	9.823	9.823	0.000	97	503969	10.0	10.2	
109 1,3-Dichloropropane	76	9.908	9.908	0.000	88	471207	10.0	10.8	
110 2-Hexanone	43	9.981	9.981	0.000	95	1127628	100.0	111.6	
112 Chlorodibromomethane	129	10.134	10.134	0.000	89	359963	10.0	11.7	
113 Ethylene Dibromide	107	10.237	10.237	0.000	98	253742	10.0	11.3	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	84	1136922	10.0	10.0	
115 1-Chlorohexane	91	10.725	10.725	0.000	96	628150	10.0	10.6	
116 Chlorobenzene	112	10.725	10.725	0.000	97	1324106	10.0	10.8	
117 1,1,1,2-Tetrachloroethane	131	10.817	10.817	0.000	96	451397	10.0	11.3	
118 Ethylbenzene	91	10.823	10.823	0.000	98	2290017	10.0	10.7	
120 m-Xylene & p-Xylene	106	10.945	10.945	0.000	100	1814495	20.0	22.1	
121 o-Xylene	106	11.280	11.280	0.000	96	871208	10.0	11.1	
122 Styrene	104	11.298	11.298	0.000	95	1375319	10.0	11.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 Bromoform	173	11.451	11.451	0.000	96	183327	10.0	11.5	
124 Isopropylbenzene	105	11.591	11.591	0.000	95	2009759	10.0	10.9	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	89	558430	10.0	10.2	
128 1,1,2,2-Tetrachloroethane	83	11.841	11.841	0.000	65	325553	10.0	11.3	
129 Bromobenzene	156	11.841	11.841	0.000	93	508539	10.0	10.5	
130 trans-1,4-Dichloro-2-butene	53	11.865	11.865	0.000	88	341019	100.0	55.0	
131 1,2,3-Trichloropropane	110	11.883	11.883	0.000	80	85998	10.0	11.2	
132 N-Propylbenzene	91	11.920	11.920	0.000	99	2757829	10.0	10.6	
133 2-Chlorotoluene	126	11.993	11.993	0.000	97	550627	10.0	10.6	
134 1,3,5-Trimethylbenzene	105	12.060	12.060	0.000	93	1969242	10.0	10.7	
135 4-Chlorotoluene	126	12.085	12.085	0.000	98	567593	10.0	10.6	
136 tert-Butylbenzene	134	12.304	12.304	0.000	93	434184	10.0	10.9	
137 Pentachloroethane	167	12.328	12.328	0.000	93	313890	10.0	11.5	
138 1,2,4-Trimethylbenzene	105	12.347	12.347	0.000	97	2017217	10.0	10.7	
139 sec-Butylbenzene	105	12.469	12.469	0.000	94	2548290	10.0	10.7	
140 1,3-Dichlorobenzene	146	12.560	12.560	0.000	98	1089433	10.0	10.6	
141 4-Isopropyltoluene	119	12.578	12.578	0.000	97	2221516	10.0	10.9	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	94	623255	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.633	12.633	0.000	94	1084072	10.0	10.3	
144 1,2,3-Trimethylbenzene	120	12.652	12.652	0.000	98	887284	10.0	11.0	
145 Benzyl chloride	126	12.713	12.713	0.000	98	136019	10.0	11.6	
146 p-Diethylbenzene	119	12.847	12.847	0.000	94	1376033	10.0	11.0	
147 n-Butylbenzene	92	12.871	12.871	0.000	97	1131867	10.0	10.9	
148 1,2-Dichlorobenzene	146	12.889	12.889	0.000	98	942077	10.0	10.5	
150 1,2-Dibromo-3-Chloropropane	155	13.432	13.432	0.000	86	37977	10.0	12.4	
151 1,3,5-Trichlorobenzene	180	13.560	13.560	0.000	98	844032	10.0	10.4	
152 1,2,4-Trichlorobenzene	180	13.974	13.974	0.000	94	646916	10.0	10.0	
153 Hexachlorobutadiene	225	14.066	14.066	0.000	98	353404	10.0	10.0	
154 Naphthalene	128	14.151	14.151	0.000	97	900174	10.0	10.5	
155 1,2,3-Trichlorobenzene	180	14.292	14.292	0.000	96	501398	10.0	9.95	
156 2-Methylnaphthalene	142	14.871	14.871	0.000	92	318436	10.0	6.96	
167 Pentane	43	2.782	2.782	0.000	40	46021	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00163

Amount Added: 20.00

Units: uL

MSV_LL_#2_826_00174

Amount Added: 20.00

Units: uL

MSV_LL_GAS826_00264

Amount Added: 20.00

Units: uL

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Report Date: 01-Apr-2025 01:33:09

Chrom Revision: 2.3 21-Mar-2025 14:03:38

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X02.D

Injection Date: 31-Mar-2025 23:22:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: CCVIS VSTD10

Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

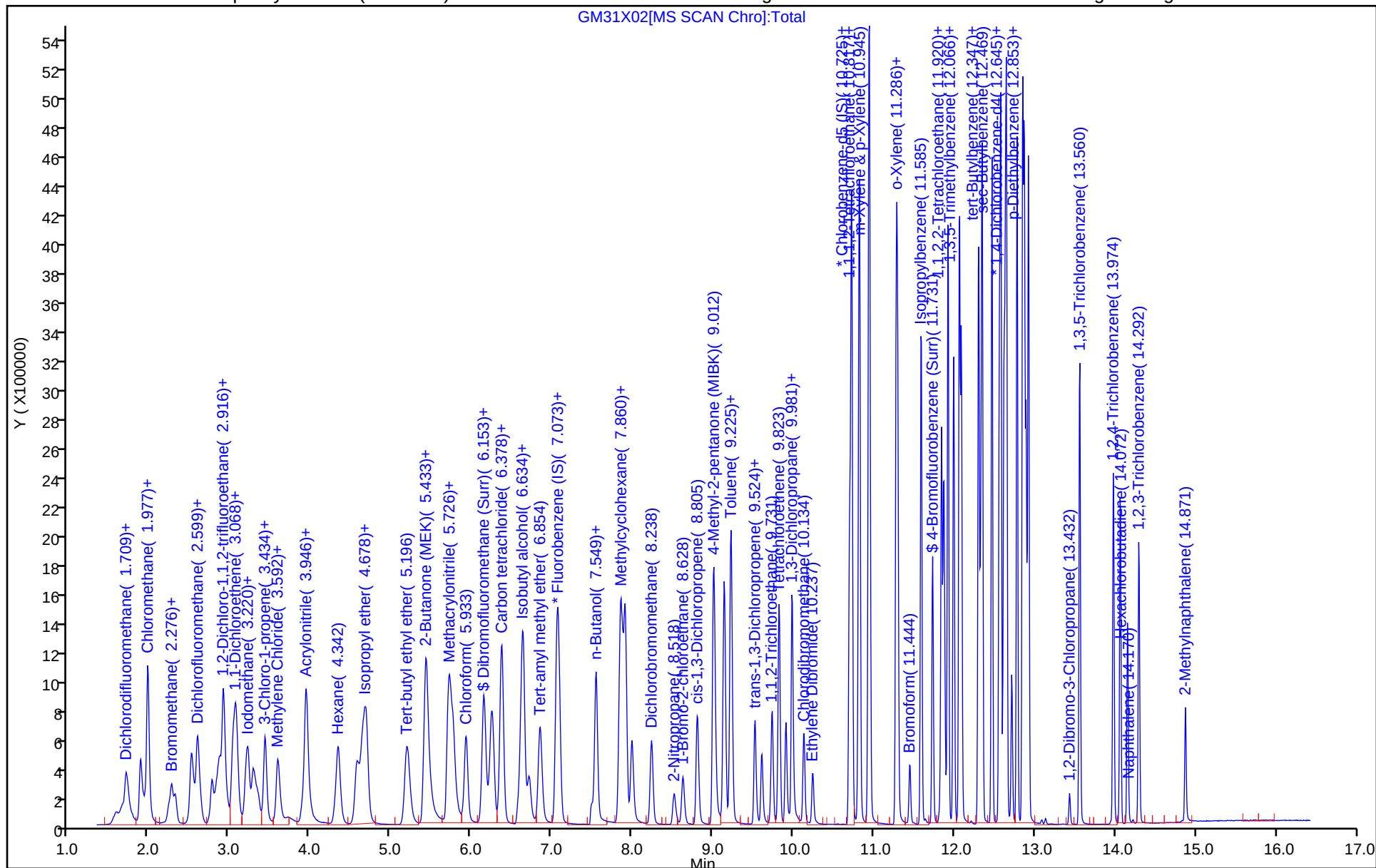
ALS Bottle#: 2

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

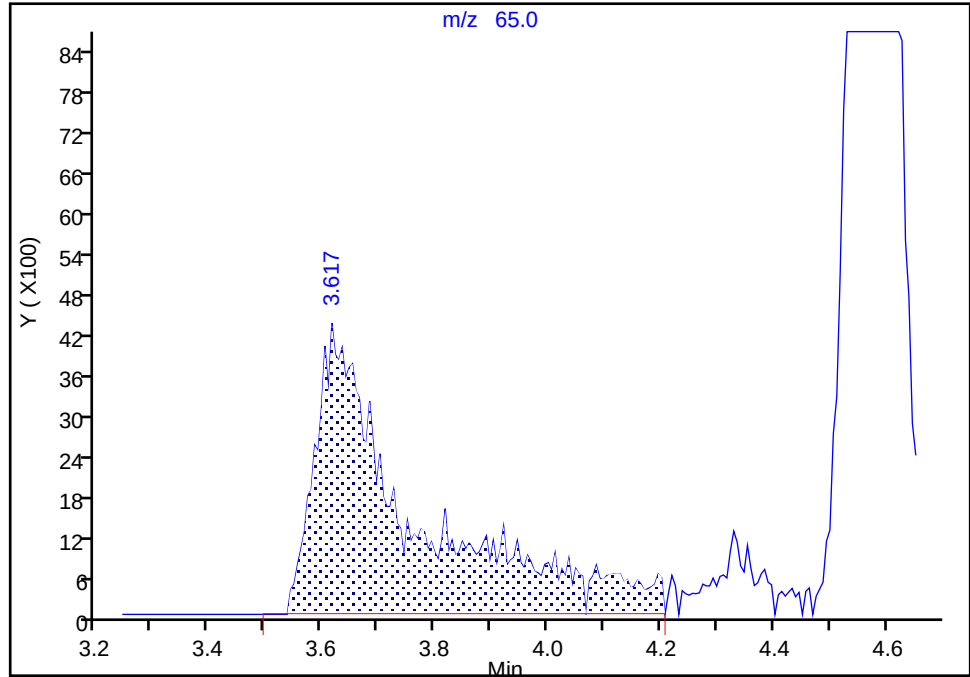
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Injection Date: 31-Mar-2025 23:22:30 Instrument ID: 16334
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

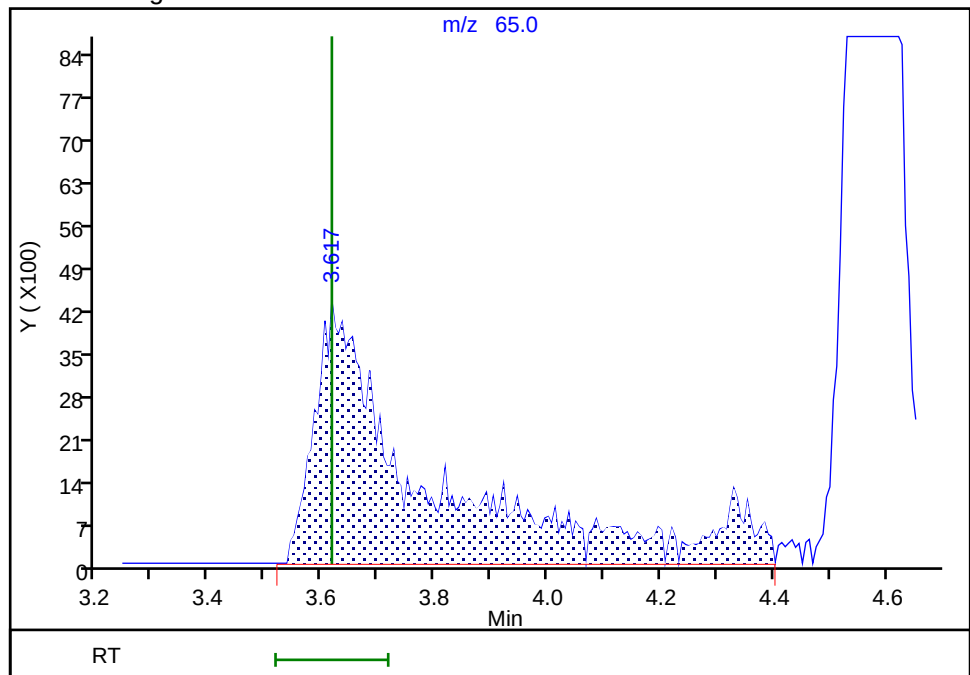
RT: 3.62
Area: 51133
Amount: 49.998300
Amount Units: ug/l

Processing Integration Results



RT: 3.62
Area: 57194
Amount: 49.998300
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 31-Mar-2025 23:43:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

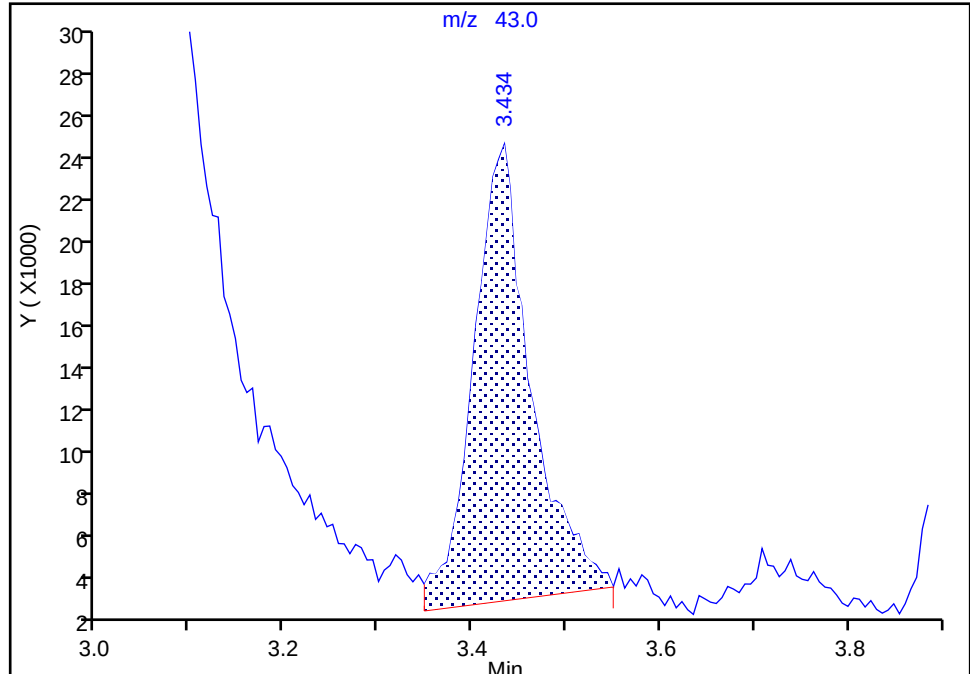
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Injection Date: 31-Mar-2025 23:22:30 Instrument ID: 16334
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Methyl acetate, CAS: 79-20-9

Signal: 1

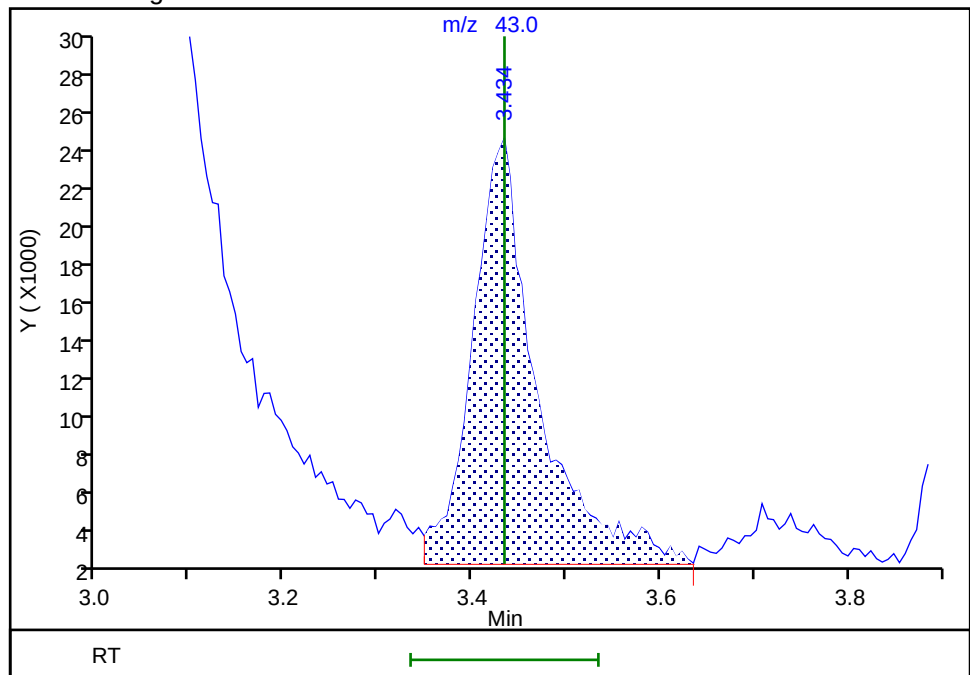
RT: 3.43
Area: 92242
Amount: 7.454764
Amount Units: ug/l

Processing Integration Results



RT: 3.43
Area: 106660
Amount: 7.706507
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 31-Mar-2025 23:43:38 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

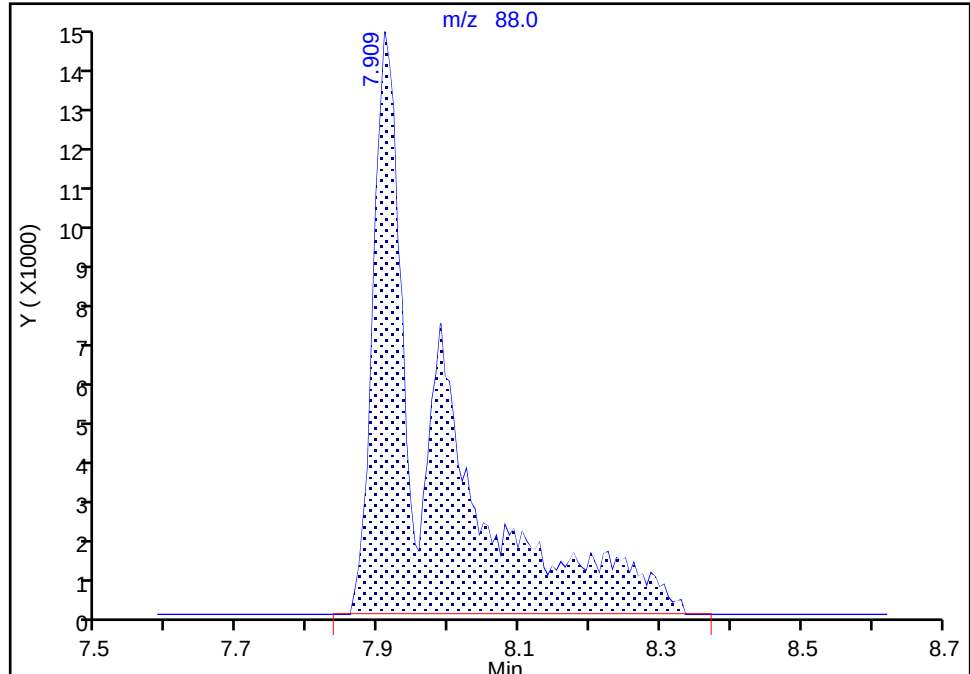
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Injection Date: 31-Mar-2025 23:22:30 Instrument ID: 16334
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

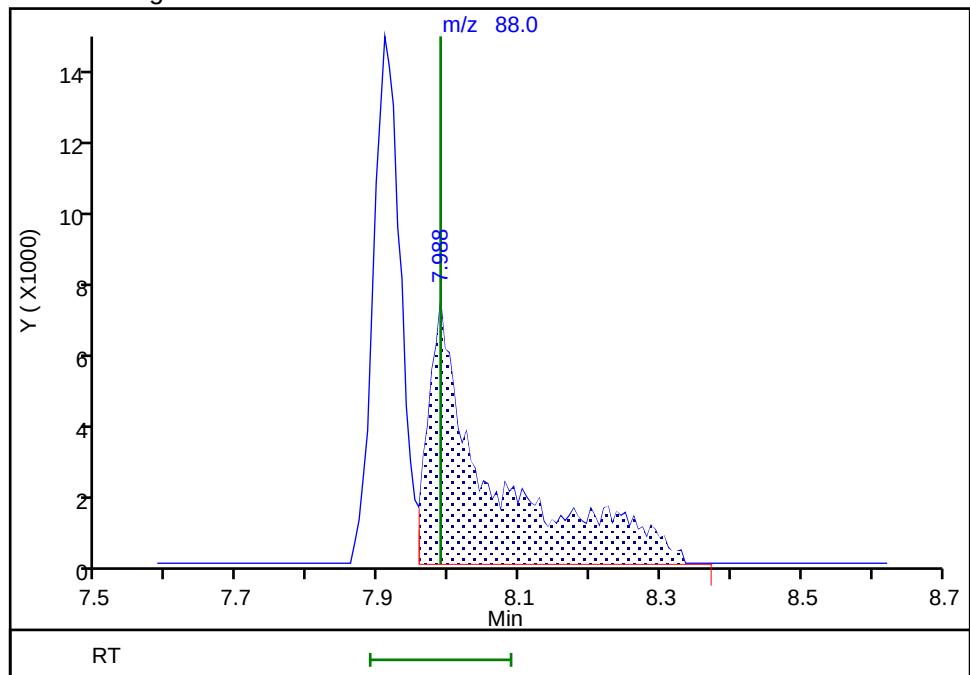
RT: 7.91
Area: 81538
Amount: 1115.1738
Amount Units: ug/l

Processing Integration Results



RT: 7.99
Area: 44047
Amount: 602.4193
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 31-Mar-2025 23:45:04 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 30-Nov-2020 11:46:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0016641-001
Misc. Info.: BFB
Operator ID: DVV10203 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2020 19:03:51 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: virayd

Date: 30-Nov-2020 12:10:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 165 BFB	95	5.188	5.188	0.000	87	489350	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MSV_V_BFB_00003

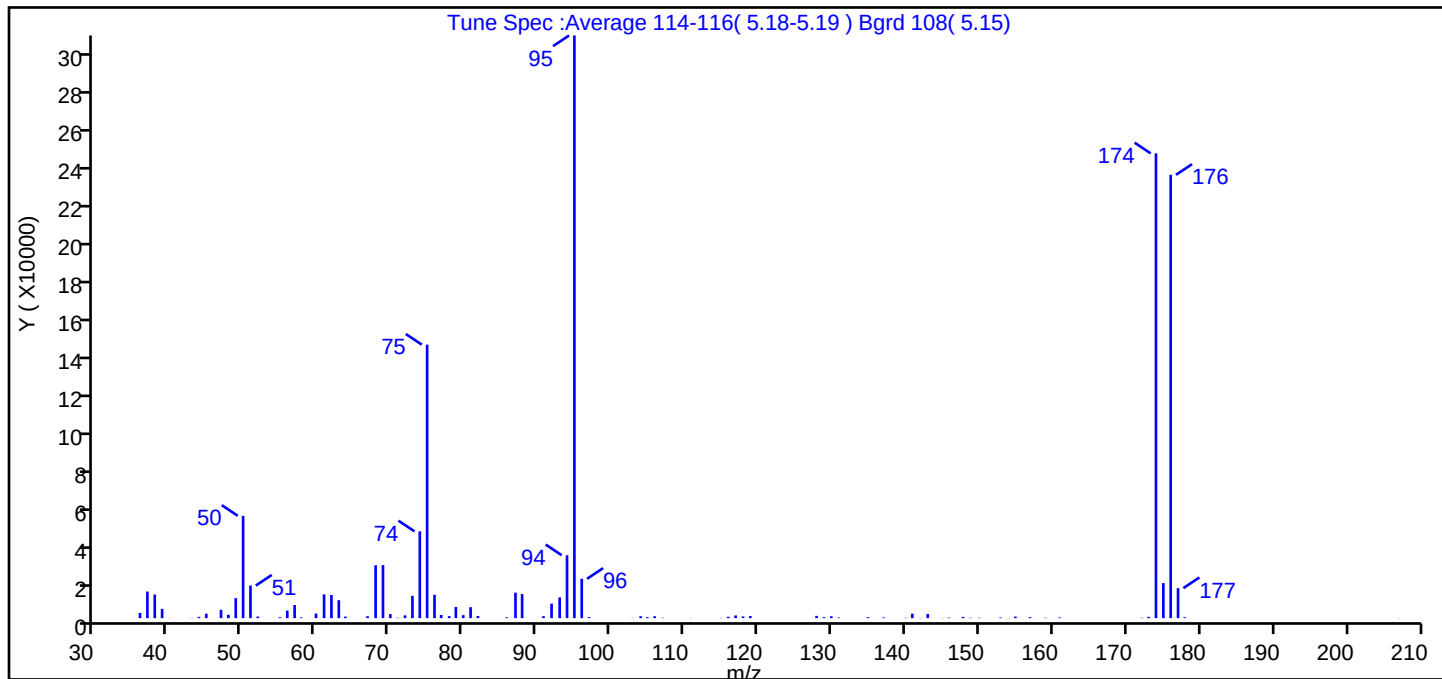
Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30T01.D
Injection Date: 30-Nov-2020 11:46:30 Instrument ID: 16334
Lims ID: bfb
Client ID:
Operator ID: DVV10203 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

\$ 165 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.6
75	30 to 60% of m/z 95	46.9
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	79.8
175	5 to 9% of m/z 174	6.0 (7.5)
176	Greater than 95% but less than 101% of m/z 174	76.1 (95.4)
177	5 to 9% of m/z 176	5.2 (6.8)

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30T01.D\MSV_16334_25mL.rsl\spectra.d
Injection Date: 30-Nov-2020 11:46:30
Spectrum: Tune Spec :Average 114-116(5.18-5.19) Bgrd 108(5.15)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2772	67.00	1018	95.00	309376	143.00	2233
37.00	14113	68.00	28088	96.00	20888	145.00	88
38.00	12552	69.00	28160	97.00	561	146.00	300
39.00	4939	70.00	2151	103.00	123	148.00	674
40.00	58	71.00	201	104.00	1021	149.00	233
43.00	79	72.00	1472	105.00	508	150.00	205
44.00	676	73.00	11870	106.00	1010	151.00	14
45.00	2334	74.00	46080	107.00	199	153.00	361
47.00	4434	75.00	145216	111.00	97	154.00	104
48.00	1797	76.00	12401	115.00	150	155.00	827
49.00	10611	77.00	1661	116.00	743	157.00	548
50.00	54328	78.00	1061	117.00	1439	159.00	244
51.00	17288	79.00	5926	118.00	918	161.00	384
52.00	859	80.00	1585	119.00	1116	172.00	191
55.00	472	81.00	5817	128.00	1210	173.00	717
56.00	4009	82.00	1125	129.00	530	174.00	246784
57.00	6977	86.00	445	130.00	998	175.00	18624
58.00	399	87.00	13538	131.00	327	176.00	235392
60.00	2452	88.00	12773	135.00	505	177.00	15946
61.00	12629	91.00	1031	137.00	380	178.00	459
62.00	12288	92.00	7724	140.00	215	207.00	85
63.00	9532	93.00	11009	141.00	2365		
64.00	829	94.00	33408	142.00	111		

Report Date: 01-Dec-2020 19:03:51

Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30T01.D

Injection Date: 30-Nov-2020 11:46:30

Instrument ID: 16334

Operator ID: DVV10203

Lims ID: bfb

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

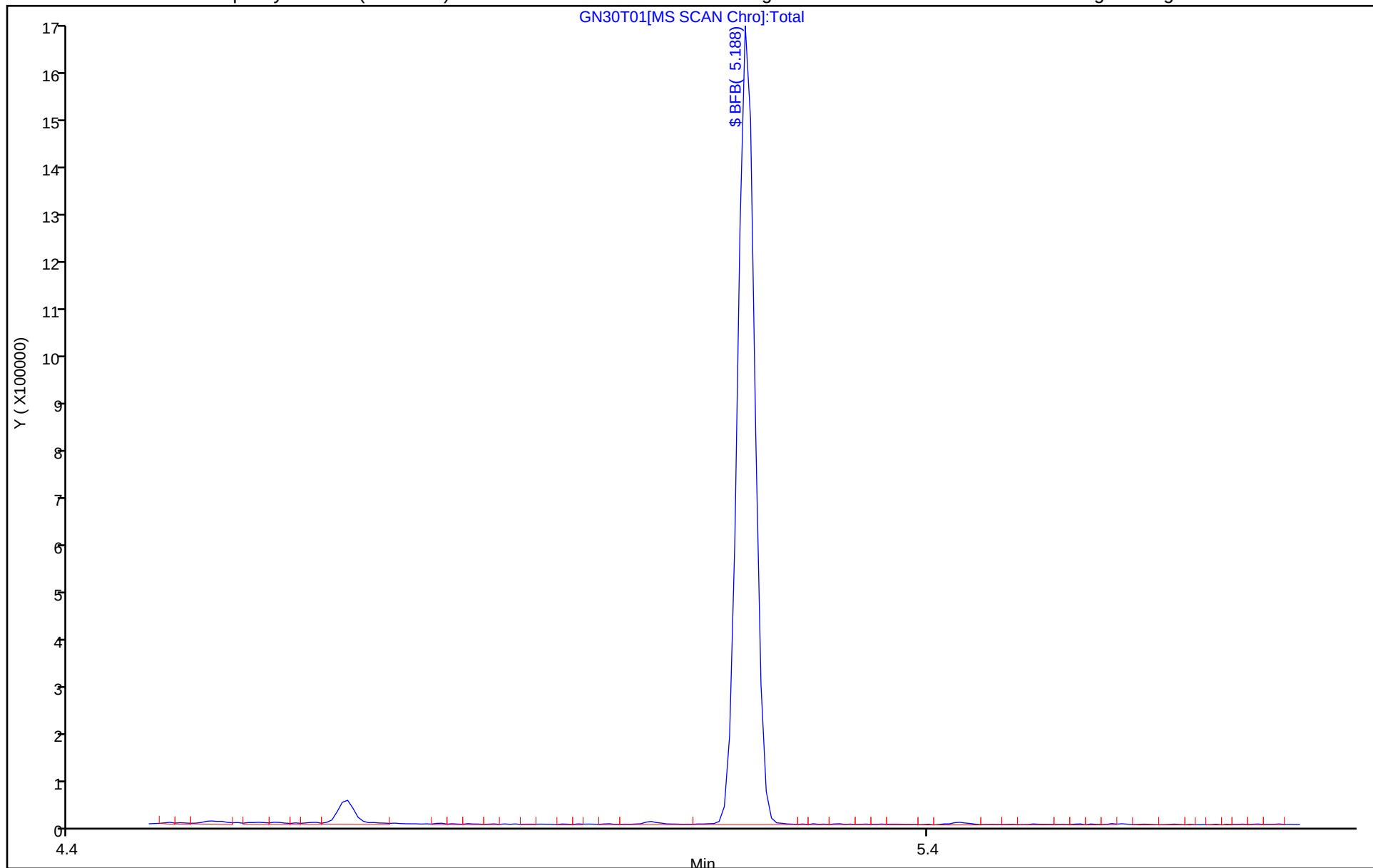
ALS Bottle#: 1

Method: MSV_16334_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
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 03-Dec-2024 15:12:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0132221-001
Misc. Info.: bfb
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Dec-2024 09:44:32 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: UJML Date: 05-Dec-2024 13:11:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 168 BFB 95 4.825 4.825 0.000 0 541475 NR NR

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

MSV_V_BFB_00018 Amount Added: 1.00 Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03T01.D

Injection Date: 03-Dec-2024 15:12:30

Instrument ID: 16334

Lims ID: bfb

Client ID:

Operator ID: knk41612

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

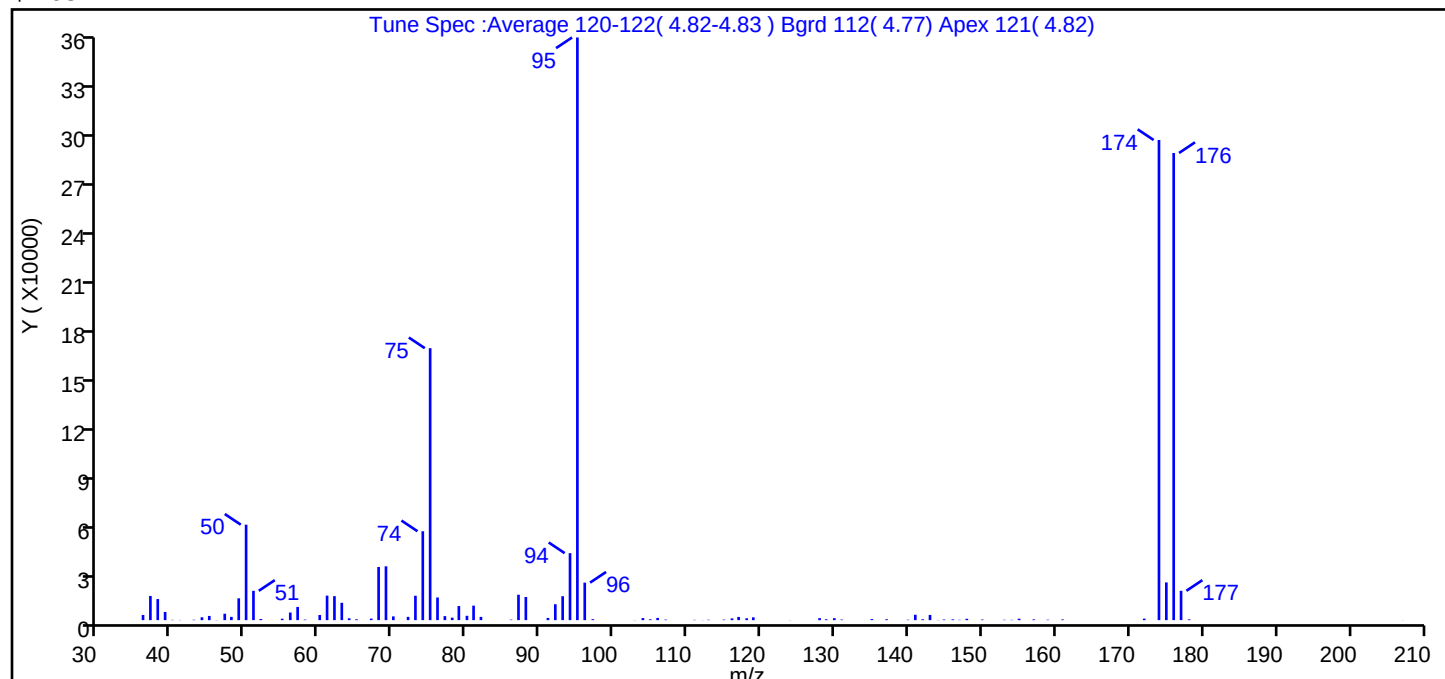
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

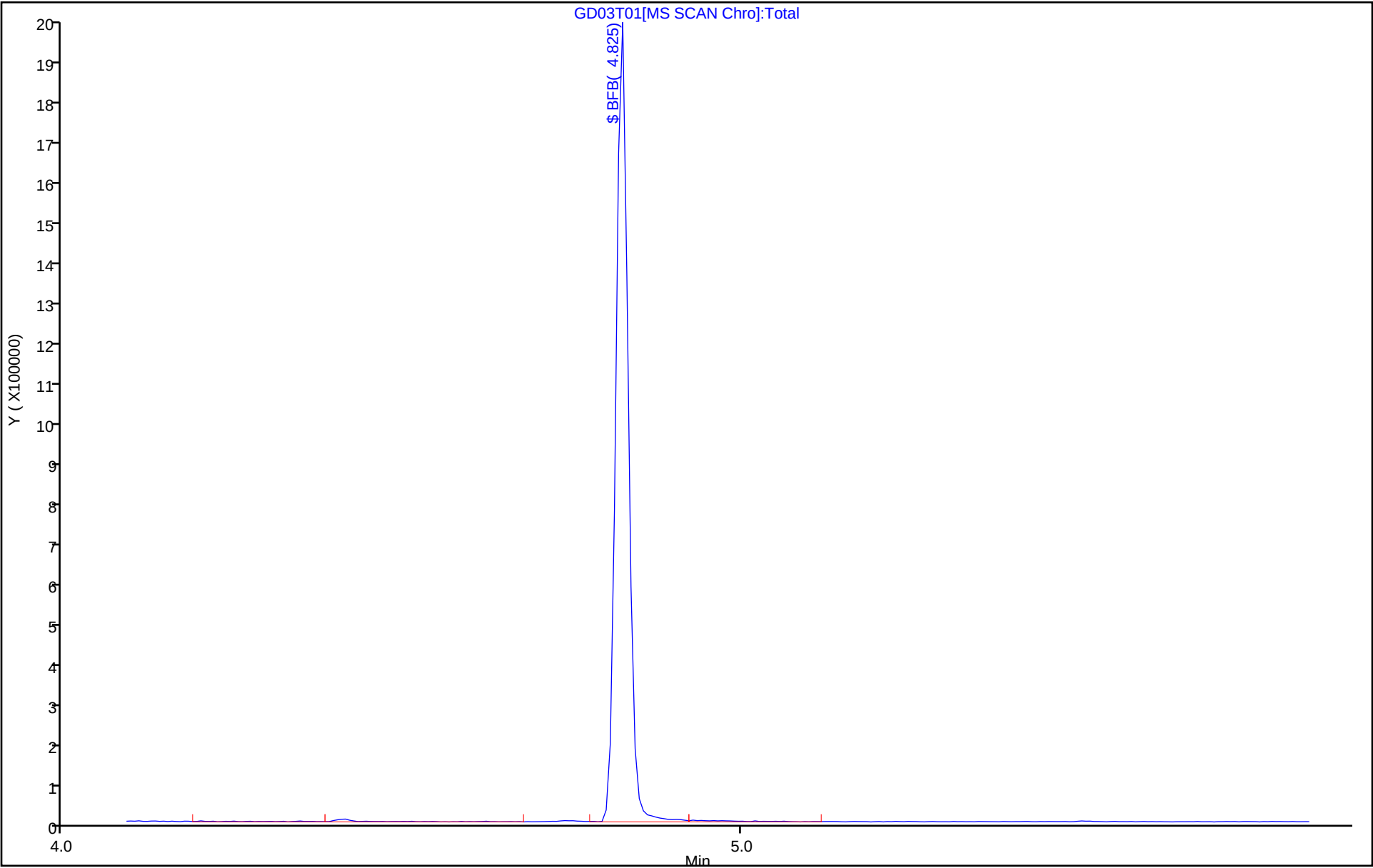
\$ 168 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.4
75	30 to 60% of m/z 95	46.7
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.4
175	5 to 9% of m/z 174	6.5 (7.9)
176	Greater than 95% but less than 101% of m/z 174	80.2 (97.3)
177	5 to 9% of m/z 176	5.0 (6.3)

Data File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03T01.D\MSV_16334_25mL.rslt\spectra.d
Injection Date: 03-Dec-2024 15:12:30
Spectrum: Tune Spec :Average 120-122(4.82-4.83) Bgrd 112(4.77) Apex 121(4.82)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3133	64.00	1119	95.00	356096	141.00	3289
37.00	14777	65.00	530	96.00	22928	142.00	529
38.00	12883	67.00	936	97.00	572	143.00	3172
39.00	5012	68.00	32504	103.00	97	144.00	104
40.00	188	69.00	32896	104.00	1262	145.00	382
41.00	114	70.00	2291	105.00	508	146.00	489
43.00	254	72.00	2006	106.00	1351	147.00	196
44.00	1735	73.00	14920	107.00	325	148.00	828
45.00	2570	74.00	54344	111.00	189	150.00	375
46.00	92	75.00	166208	112.00	91	153.00	223
47.00	3931	76.00	13854	113.00	258	154.00	184
48.00	1998	77.00	2462	115.00	325	155.00	861
49.00	13342	78.00	1518	116.00	1062	157.00	467
50.00	58344	79.00	8616	117.00	1958	159.00	283
51.00	17920	80.00	2661	118.00	1132	161.00	434
52.00	707	81.00	8863	119.00	1726	172.00	929
55.00	862	82.00	1987	124.00	84	174.00	293440
56.00	4641	86.00	311	128.00	1222	175.00	23064
57.00	8070	87.00	15530	129.00	540	176.00	285504
58.00	336	88.00	14149	130.00	1194	177.00	17928
60.00	3132	91.00	1347	131.00	354	178.00	474
61.00	14984	92.00	9729	135.00	645	207.00	54
62.00	14677	93.00	14628	137.00	539		
63.00	10591	94.00	40944	140.00	263		



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31T03.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 31-Mar-2025 22:46:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0142555-001
Misc. Info.: BFB
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Apr-2025 01:33:07 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 168 BFB	95	4.806	4.806	0.000	0	216885	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MSV_V_BFB_00018

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31T03.D

Injection Date: 31-Mar-2025 22:46:30

Instrument ID: 16334

Lims ID: BFB

Client ID:

Operator ID: gaw91131

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

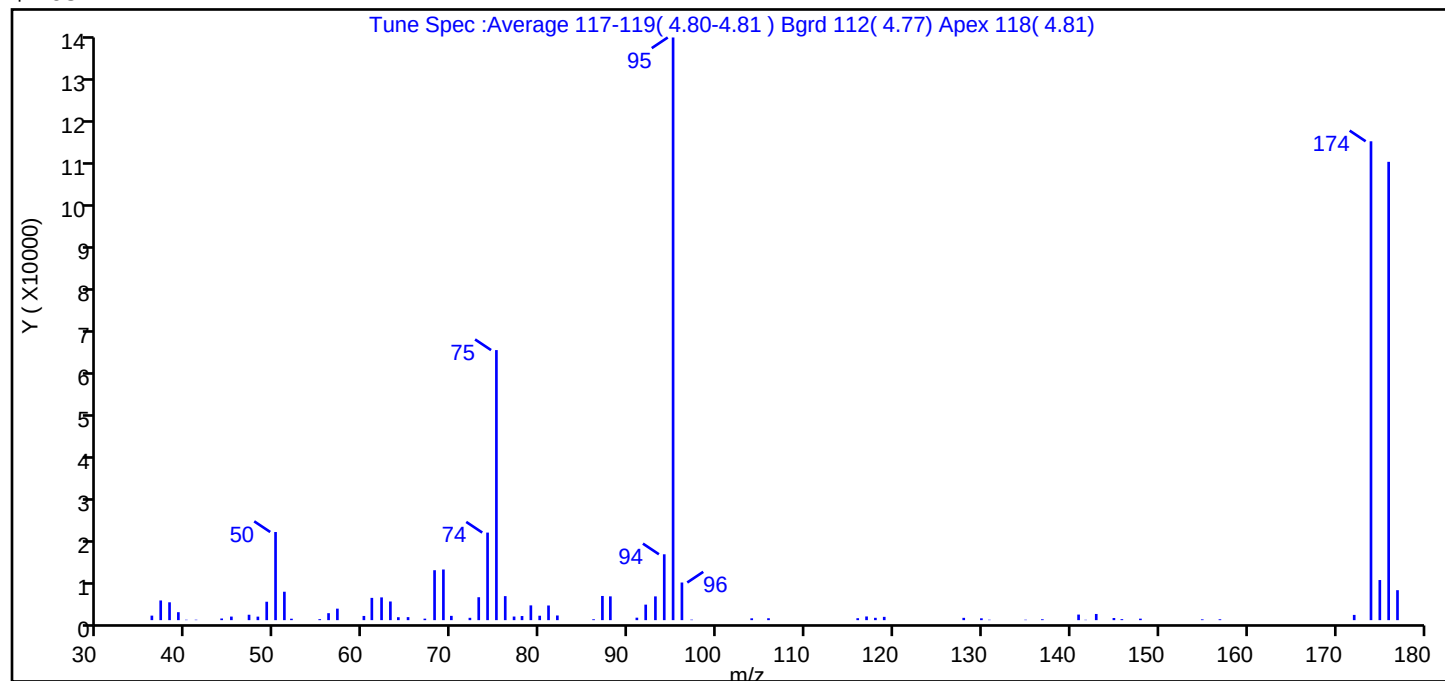
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

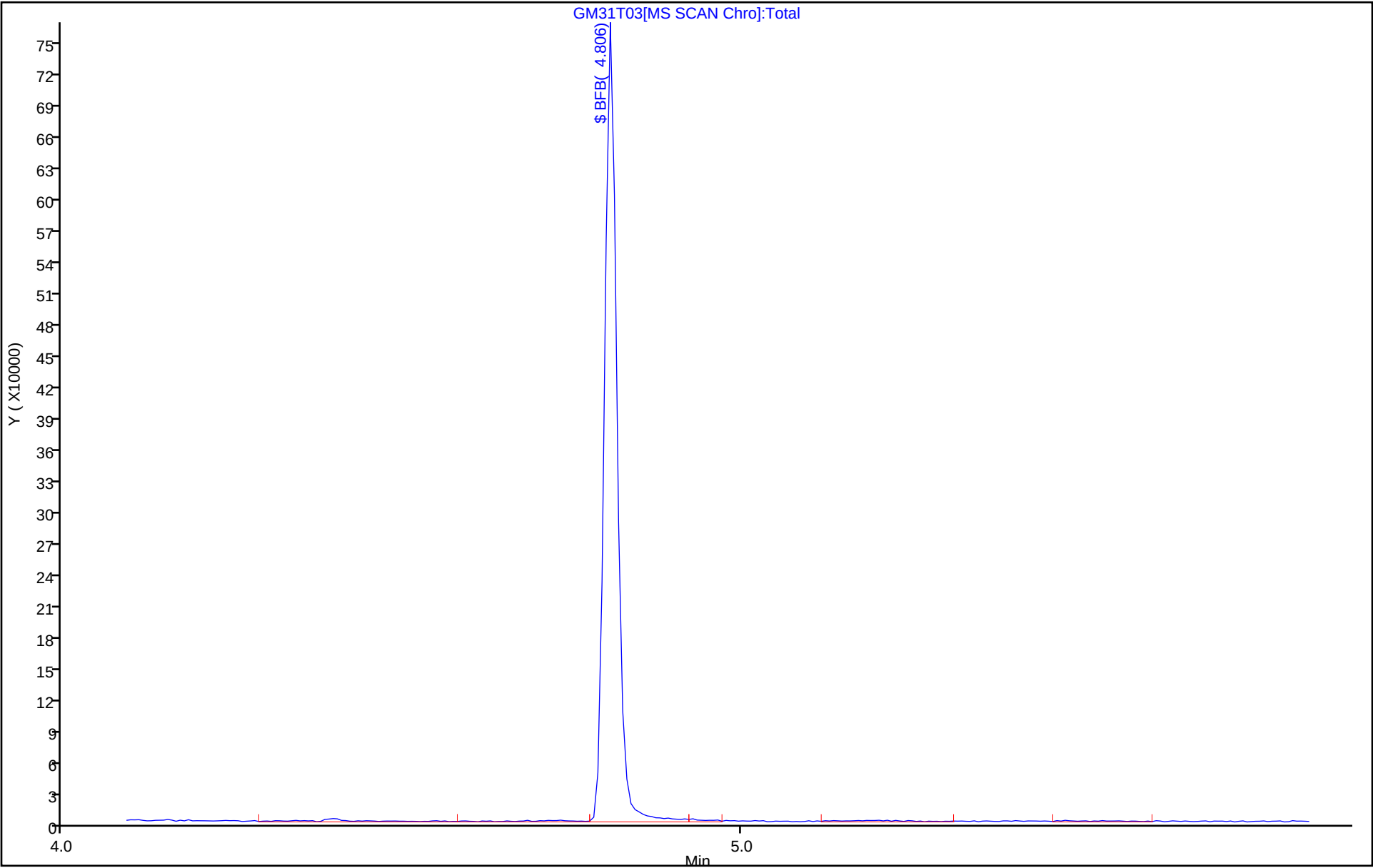
\$ 168 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.1
75	30 to 60% of m/z 95	46.3
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.2
175	5 to 9% of m/z 174	6.9 (8.4)
176	Greater than 95% but less than 101% of m/z 174	78.7 (95.7)
177	5 to 9% of m/z 176	5.1 (6.5)

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31T03.D\MSV_16334_25mL.rsl\spectra.c
Injection Date: 31-Mar-2025 22:46:30
Spectrum: Tune Spec :Average 117-119(4.80-4.81) Bgrd 112(4.77) Apex 118(4.81)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1082	61.00	5333	81.00	3509	128.00	552
37.00	4713	62.00	5449	82.00	1118	130.00	443
38.00	4274	63.00	4468	86.00	207	131.00	97
39.00	1904	64.00	701	87.00	5788	135.00	101
40.00	96	65.00	722	88.00	5697	137.00	208
41.00	102	67.00	359	91.00	591	141.00	1335
44.00	394	68.00	11954	92.00	3716	142.00	85
45.00	853	69.00	12130	93.00	5688	143.00	1479
47.00	1295	70.00	1026	94.00	15770	145.00	511
48.00	843	72.00	559	95.00	139520	146.00	235
49.00	4409	73.00	5488	96.00	9013	148.00	357
50.00	21104	74.00	20968	97.00	116	155.00	184
51.00	6804	75.00	64664	104.00	437	157.00	206
52.00	344	76.00	5750	106.00	451	172.00	1255
55.00	234	77.00	864	116.00	463	174.00	114664
56.00	1669	78.00	985	117.00	882	175.00	9604
57.00	2752	79.00	3534	118.00	560	176.00	109744
60.00	1005	80.00	1057	119.00	788	177.00	7176



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-624273/6

Matrix: Water

Lab File ID: GM31X05.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 00:28

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

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	0.417	J	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.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-624273/6

Matrix: Water Lab File ID: GM31X05.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 25 (mL) Date Analyzed: 04/01/2025 00:28

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.: 624273 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 16334

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)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	93		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X05.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 01-Apr-2025 00:28:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-006
 Misc. Info.: MB
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Apr-2025 01:33:09 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1623

First Level Reviewer: JS6E

Date: 01-Apr-2025 01:32:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.678					ND	
2 Dichlorodifluoromethane	85		1.715					ND	
3 Chlorodifluoromethane	51		1.727					ND	
5 Chloromethane	50		1.885					ND	
4 Dimethyl ether	45	1.904	1.885	0.019	1	362		NC	
7 Butadiene	39		1.977					ND	7
6 Vinyl chloride	62		1.983					ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.032					ND	
9 Bromomethane	94		2.276					ND	
10 Chloroethane	64		2.318					ND	7
11 Dichlorofluoromethane	67		2.519					ND	
12 Trichlorofluoromethane	101		2.599					ND	
13 Ethyl ether	59		2.775					ND	
16 1,2-Dichloro-1,1,2-trifluoroethane	67		2.861					ND	
17 Acrolein	56		2.916					ND	
18 1,1-Dichloroethene	96		3.038					ND	
19 Acetone	43		3.068					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.074					ND	
14 Ethanol	45		3.184					ND	
22 Iodomethane	142		3.202					ND	
23 Ethyl bromide	108		3.220					ND	
21 Isopropyl alcohol	45		3.227					ND	
24 Carbon disulfide	76	3.294	3.300	-0.006	99	49223		0.4170	M
26 Acetonitrile	41		3.422					ND	
25 Methyl acetate	43		3.434					ND	
27 3-Chloro-1-propene	41		3.434					ND	
29 Methylene Chloride	84		3.592					ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.635	3.617	0.018	21	57371	50.0	50.0	M
31 2-Methyl-2-propanol	59		3.720					ND	
32 Acrylonitrile	53		3.903					ND	
33 Methyl tert-butyl ether	73		3.946					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 trans-1,2-Dichloroethene	96		3.946					ND	
35 Hexane	57		4.342					ND	
37 1,1-Dichloroethane	63		4.574					ND	
36 Vinyl acetate	43		4.580					ND	
38 Isopropyl ether	45		4.653					ND	
39 2-Chloro-1,3-butadiene	53		4.690					ND	
40 Tert-butyl ethyl ether	59		5.196					ND	
41 2-Butanone (MEK)	43		5.421					ND	
42 cis-1,2-Dichloroethene	96		5.433					ND	
43 2,2-Dichloropropane	77		5.446					ND	
44 Ethyl acetate	43		5.488					ND	
45 Propionitrile	54		5.513					ND	
48 Methacrylonitrile	67		5.720					ND	
49 Chlorobromomethane	128		5.775					ND	
50 Tetrahydrofuran	71		5.793					ND	
51 Chloroform	83		5.933					ND	
46 Methyl acrylate	55		6.141					ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.159	6.153	0.006	92	349932	10.0	10.4	
S 47 1,2-Dichloroethene, Total	100		6.155					ND	7
53 1,1,1-Trichloroethane	97		6.159					ND	
54 Cyclohexane	56		6.256					ND	
55 Carbon tetrachloride	117		6.372					ND	
56 1,1-Dichloropropene	75		6.378					ND	
58 Isobutyl alcohol	41		6.586					ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.616	-0.006	65	64166	10.0	9.99	
60 Benzene	78		6.641					ND	
61 1,2-Dichloroethane	62		6.714					ND	
62 Isopropyl acetate	43		6.756					ND	
63 Tert-amyl methyl ether	73		6.854					ND	
* 64 Fluorobenzene (IS)	96	7.061	7.061	0.000	99	1427591	10.0	10.0	
57 1-Chlorobutane	56	7.061	7.067	-0.006	33	7370		NC	
65 n-Heptane	43		7.086					ND	
67 n-Butanol	56		7.494					ND	
68 Trichloroethene	95		7.549					ND	
69 Methylcyclohexane	83		7.848					ND	
70 1,2-Dichloropropane	63		7.878					ND	
66 t-Amyl alcohol	73		7.903					ND	
71 2-ethoxy-2-methyl butane	87		7.915					ND	
73 1,4-Dioxane	88		7.988					ND	
74 Dibromomethane	93		7.994					ND	
72 Methyl methacrylate	69		7.994					ND	
75 n-Propyl acetate	61		8.085					ND	
76 Dichlorobromomethane	83		8.238					ND	
77 2-Nitropropane	41		8.518					ND	
78 2-Chloroethyl vinyl ether	63		8.622					ND	
79 1-Bromo-2-chloroethane	63		8.628					ND	
81 cis-1,3-Dichloropropene	75		8.805					ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.012					ND	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1394060	10.0	9.25	
80 Chloroacetonitrile	75		9.158					ND	
84 Toluene	92		9.225					ND	
85 trans-1,3-Dichloropropene	75		9.524					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 Ethyl methacrylate	69		9.609					ND	
107 1,1,2-Trichloroethane	97		9.738					ND	
108 Tetrachloroethene	166		9.823					ND	
109 1,3-Dichloropropane	76		9.908					ND	
110 2-Hexanone	43		9.981					ND	
S 106 1,3-Dichloropropene, Total	100		10.060					ND	7
111 n-Butyl acetate	43		10.134					ND	
112 Chlorodibromomethane	129		10.134					ND	
113 Ethylene Dibromide	107		10.237					ND	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	85	1085415	10.0	10.0	
115 1-Chlorohexane	91		10.725					ND	7
116 Chlorobenzene	112		10.725					ND	
117 1,1,1,2-Tetrachloroethane	131		10.817					ND	
118 Ethylbenzene	91		10.823					ND	
120 m-Xylene & p-Xylene	106		10.945					ND	
S 119 Xylenes, Total	106		11.245					ND	7
121 o-Xylene	106		11.280					ND	
122 Styrene	104		11.298					ND	
123 Bromoform	173		11.451					ND	
124 Isopropylbenzene	105		11.591					ND	
125 cis-1,4-Dichloro-2-butene	88		11.658					ND	
126 Cyclohexanone	55		11.682					ND	U
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	89	497382	10.0	9.56	
128 1,1,2,2-Tetrachloroethane	83		11.841					ND	
129 Bromobenzene	156		11.841					ND	
130 trans-1,4-Dichloro-2-butene	53		11.865					ND	
131 1,2,3-Trichloropropane	110		11.883					ND	
132 N-Propylbenzene	91		11.920					ND	
133 2-Chlorotoluene	126		11.993					ND	
134 1,3,5-Trimethylbenzene	105		12.060					ND	
135 4-Chlorotoluene	126		12.085					ND	
136 tert-Butylbenzene	134		12.304					ND	
137 Pentachloroethane	167		12.328					ND	
138 1,2,4-Trimethylbenzene	105		12.347					ND	
139 sec-Butylbenzene	105		12.469					ND	
140 1,3-Dichlorobenzene	146		12.560					ND	
141 4-Isopropyltoluene	119		12.578					ND	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	95	566046	10.0	10.0	
143 1,4-Dichlorobenzene	146		12.633					ND	
144 1,2,3-Trimethylbenzene	120		12.652					ND	7
145 Benzyl chloride	126		12.713					ND	
146 p-Diethylbenzene	119		12.847					ND	
147 n-Butylbenzene	92		12.871					ND	
148 1,2-Dichlorobenzene	146		12.889					ND	
150 1,2-Dibromo-3-Chloropropane	155		13.432					ND	
149 Hexachloroethane	201		13.499					ND	
151 1,3,5-Trichlorobenzene	180		13.560					ND	
152 1,2,4-Trichlorobenzene	180		13.974					ND	
153 Hexachlorobutadiene	225		14.066					ND	7
154 Naphthalene	128		14.151					ND	7
155 1,2,3-Trichlorobenzene	180		14.292					ND	
156 2-Methylnaphthalene	142	14.895	14.871	0.024	1	935		0.1441	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
157 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
158 1-Chloropropane	1		0.000					ND	
159 1-Bromo-3-Chloropropane	1		0.000					ND	
160 Propene oxide	1		0.000					ND	
161 n-Decane	57		0.000					ND	
162 Methylal	1		0.000					ND	
163 tert-Butyl Formate	1		0.000					ND	
164 1,1-Dichloroacetone	1		0.000					ND	
165 Dodecane	57		0.000					ND	
166 2-Bromo-1-chloropropane	1		0.000					ND	
209 1,1-Dichloro-1-fluoroethane TIC1			0.000					ND	
167 Pentane	43		2.782					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Report Date: 01-Apr-2025 01:33:42

Chrom Revision: 2.3 21-Mar-2025 14:03:38

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X05.D

Injection Date: 01-Apr-2025 00:28:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

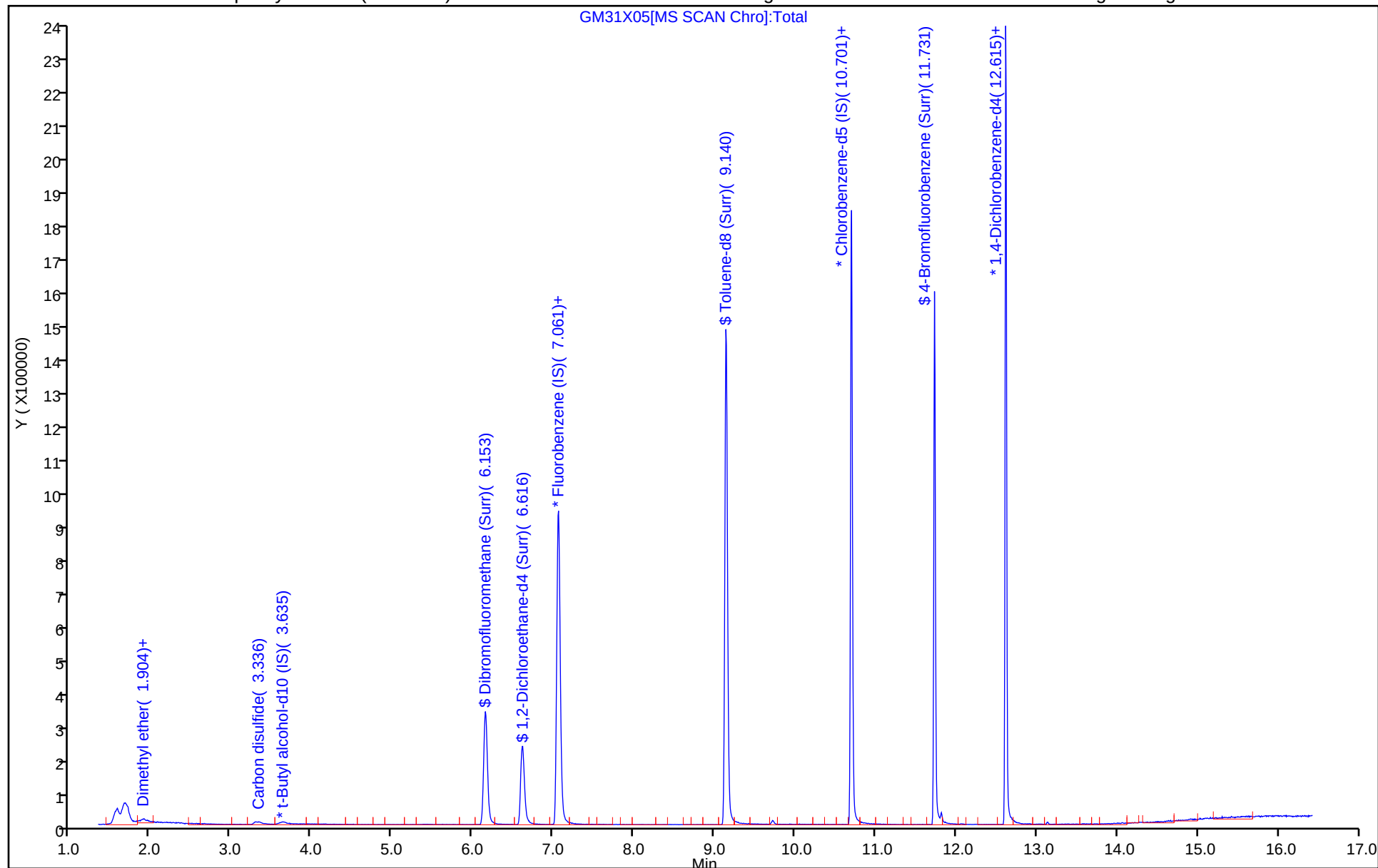
ALS Bottle#: 5

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Apr-2025 00:28:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-006
Misc. Info.: MB
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Apr-2025 01:33:09 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: JS6E

Date: 01-Apr-2025 01:32:29

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.4	103.89
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.99	99.86
\$ 83 Toluene-d8 (Surr)	10.0	9.25	92.53
\$ 127 4-Bromofluorobenzene (Surr)	10.0	9.56	95.60

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X05.D

Injection Date: 01-Apr-2025 00:28:30

Instrument ID: 16334

Lims ID: MB

Client ID:

Operator ID: gaw91131

ALS Bottle#: 5

Worklist Smp#: 6

Purge Vol: 25.000 mL

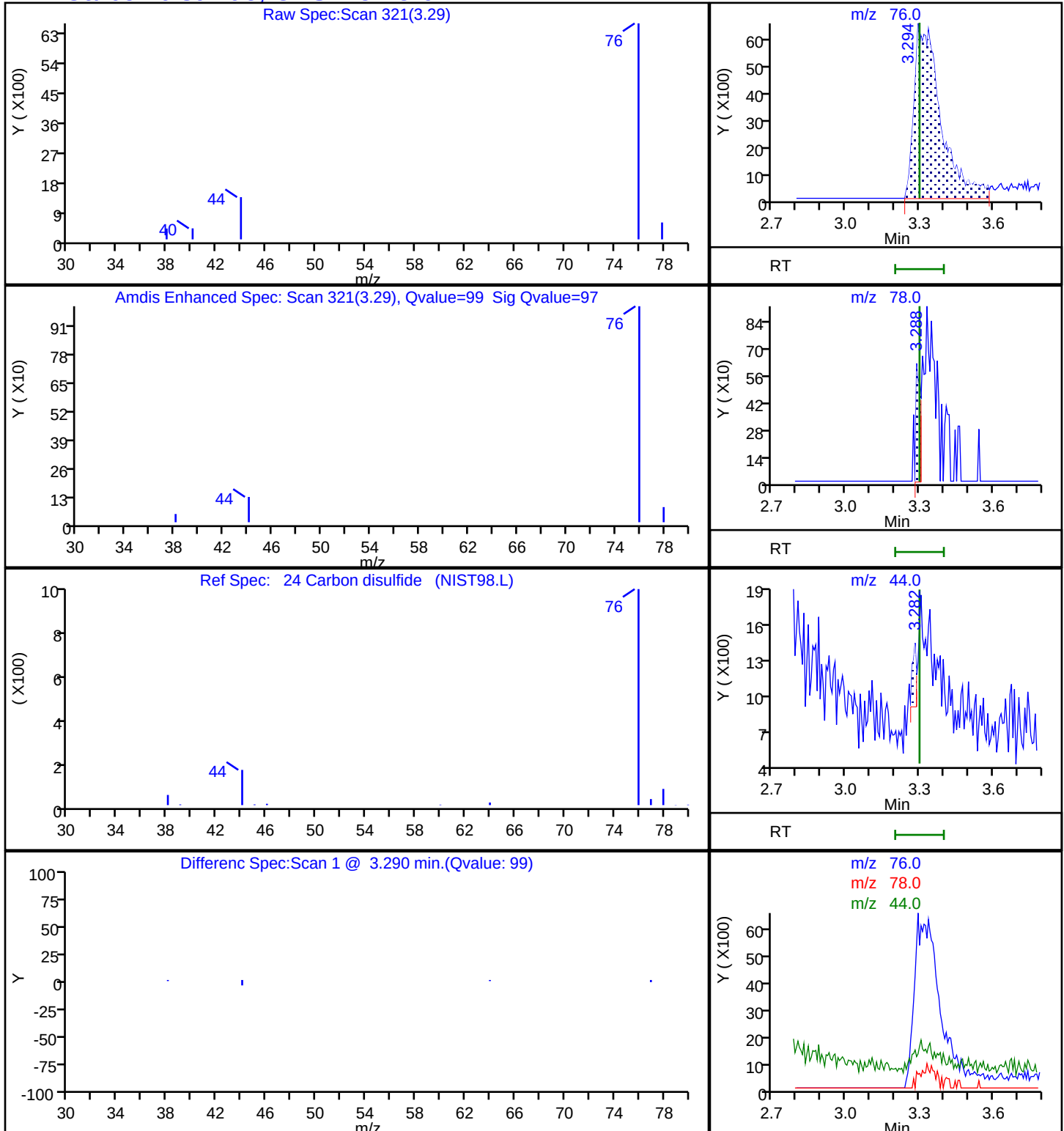
Dil. Factor: 1.0000

Method: MSV_16334_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

24 Carbon disulfide, CAS: 75-15-0

Eurofins Lancaster Laboratories Environment Testing, LLC

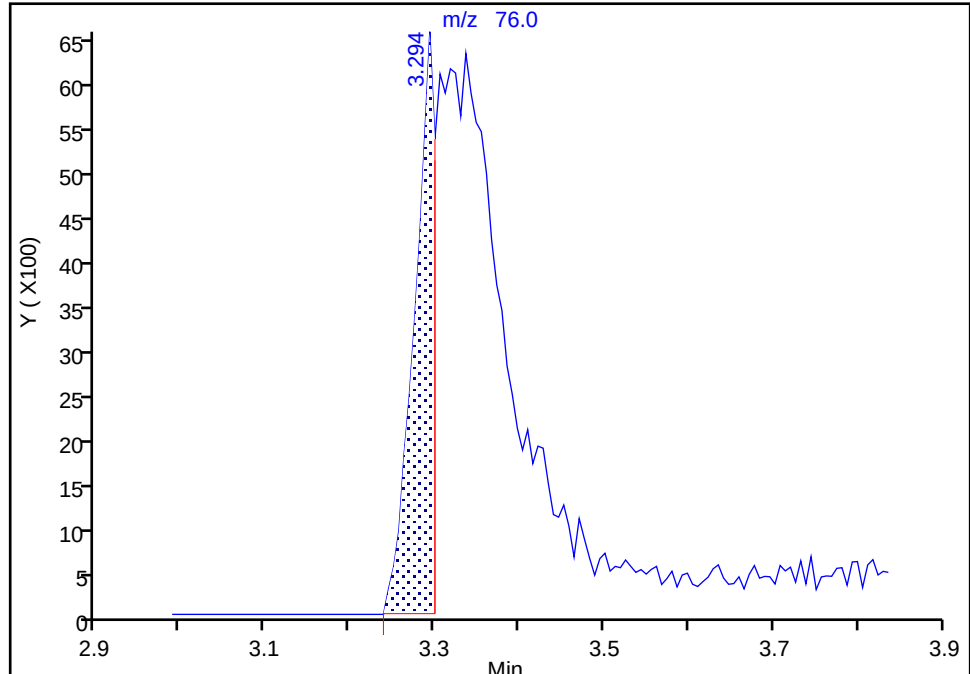
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X05.D
Injection Date: 01-Apr-2025 00:28:30 Instrument ID: 16334
Lims ID: MB
Client ID:
Operator ID: gaw91131 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

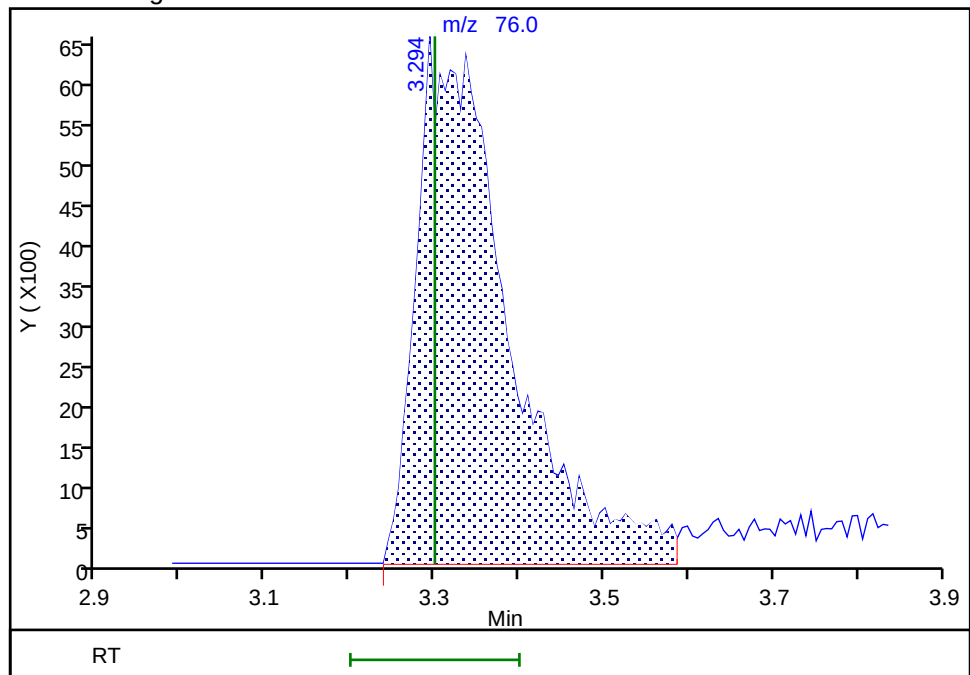
RT: 3.29
Area: 11271
Amount: 0.095490
Amount Units: ug/l

Processing Integration Results



RT: 3.29
Area: 49223
Amount: 0.417025
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 01-Apr-2025 01:31:27 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

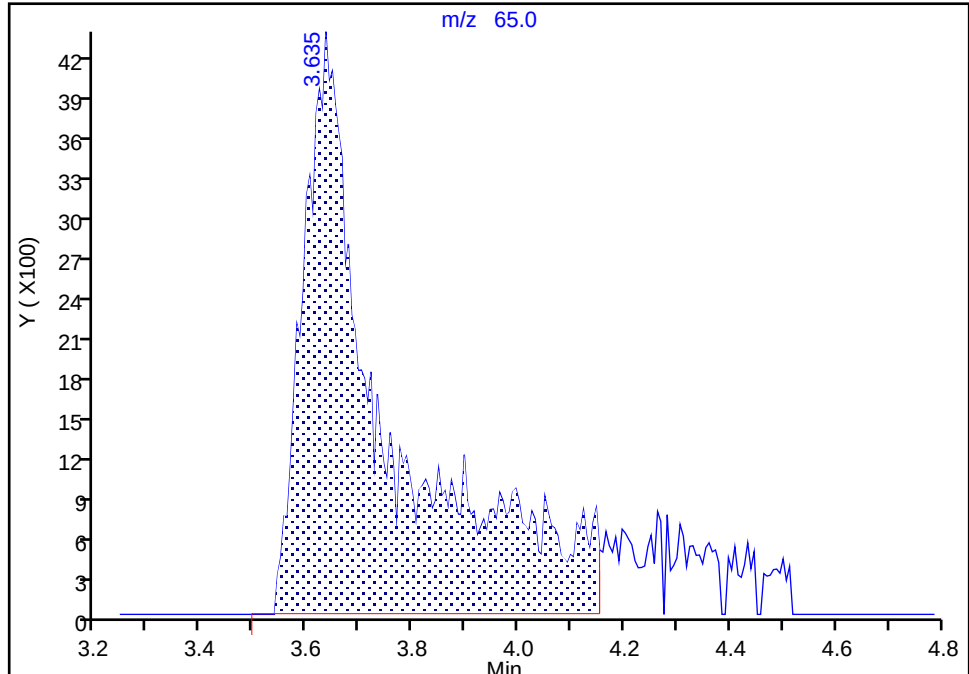
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X05.D
Injection Date: 01-Apr-2025 00:28:30 Instrument ID: 16334
Lims ID: MB
Client ID:
Operator ID: gaw91131 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

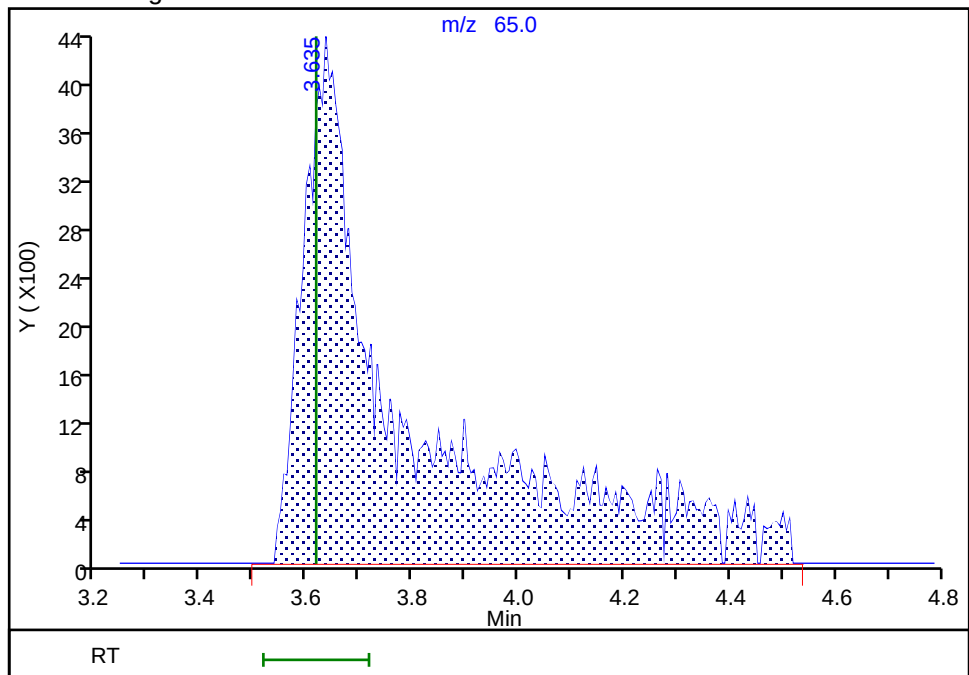
RT: 3.64
Area: 48403
Amount: 49.998300
Amount Units: ug/l

Processing Integration Results



RT: 3.64
Area: 57371
Amount: 49.998300
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 01-Apr-2025 01:31:49 -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.: 410-214590-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-624273/4

Matrix: Water

Lab File ID: GM31X03.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 03/31/2025 23:44

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.98		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.14		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.92		0.50	0.10
79-00-5	1,1,2-Trichloroethane	4.76		0.50	0.080
75-34-3	1,1-Dichloroethane	5.01		0.50	0.10
75-35-4	1,1-Dichloroethene	5.45		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.71		0.50	0.080
107-06-2	1,2-Dichloroethane	4.60		0.50	0.070
78-87-5	1,2-Dichloropropane	5.01		0.50	0.10
78-93-3	2-Butanone (MEK)	60.3		5.0	1.0
591-78-6	2-Hexanone	62.7		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	66.6		5.0	1.0
67-64-1	Acetone	54.3		5.0	1.5
71-43-2	Benzene	4.91		0.50	0.10
74-97-5	Bromochloromethane	5.38		0.50	0.080
75-27-4	Bromodichloromethane	5.13		0.50	0.080
75-25-2	Bromoform	4.76		1.0	0.30
74-83-9	Bromomethane	4.59		0.50	0.10
75-15-0	Carbon disulfide	5.36		1.0	0.10
56-23-5	Carbon tetrachloride	5.44		0.50	0.10
108-90-7	Chlorobenzene	4.78		0.50	0.070
75-00-3	Chloroethane	4.29		0.50	0.10
67-66-3	Chloroform	5.17		0.50	0.090
74-87-3	Chloromethane	3.97		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.01		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.46		0.50	0.10
124-48-1	Dibromochloromethane	5.01		0.50	0.080
100-41-4	Ethylbenzene	4.70		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.54		0.50	0.080
75-09-2	Methylene Chloride	5.10		0.50	0.20
100-42-5	Styrene	5.02		0.50	0.070
127-18-4	Tetrachloroethene	4.62		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-624273/4

Matrix: Water

Lab File ID: GM31X03.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 03/31/2025 23:44

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	4.68		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	5.10		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	4.44		0.50	0.080
79-01-6	Trichloroethene	5.00		0.50	0.080
75-01-4	Vinyl chloride	3.82		0.50	0.10
1330-20-7	Xylenes, Total	14.6		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\16334\20250331-142555.b\GM31X03.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 31-Mar-2025 23:44:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-004
 Misc. Info.: LCS
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Apr-2025 14:26:52 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1629

First Level Reviewer: JS6E

Date: 01-Apr-2025 00:15:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.703	1.715	-0.012	99	288745	5.00	5.27	
5 Chloromethane	50	1.873	1.885	-0.012	99	260727	5.00	3.97	
7 Butadiene	39	1.959	1.977	-0.018	91	254251	5.00	4.20	
6 Vinyl chloride	62	1.971	1.983	-0.012	98	227329	5.00	3.82	
9 Bromomethane	94	2.257	2.276	-0.019	92	177949	5.00	4.59	
10 Chloroethane	64	2.306	2.318	-0.012	99	129186	5.00	4.29	
11 Dichlorofluoromethane	67	2.507	2.519	-0.012	97	354106	5.00	4.20	
12 Trichlorofluoromethane	101	2.587	2.599	-0.012	91	330739	5.00	5.01	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.849	2.861	-0.012	92	261403	5.00	5.25	
18 1,1-Dichloroethene	96	3.026	3.038	-0.012	97	210712	5.00	5.45	
19 Acetone	43	3.068	3.068	0.000	70	196823	62.5	54.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.062	3.074	-0.012	93	213975	5.00	5.26	
22 Iodomethane	142	3.190	3.202	-0.012	99	347279	5.00	4.65	
21 Isopropyl alcohol	45	3.263	3.227	0.036	33	14852	37.5	34.1	
24 Carbon disulfide	76	3.282	3.300	-0.018	99	758706	5.00	5.36	
25 Methyl acetate	43	3.422	3.434	-0.012	30	50022	5.00	3.27	
27 3-Chloro-1-propene	41	3.428	3.434	-0.006	91	271883	5.00	4.05	
29 Methylene Chloride	84	3.580	3.592	-0.012	89	218070	5.00	5.10	
* 30 t-Butyl alcohol-d10 (IS)	65	3.629	3.617	0.012	96	63188	50.0	50.0	
31 2-Methyl-2-propanol	59	3.745	3.720	0.025	99	43558	50.0	58.7	
32 Acrylonitrile	53	3.897	3.903	-0.006	99	135647	25.0	27.3	
33 Methyl tert-butyl ether	73	3.928	3.946	-0.018	94	391219	5.00	4.54	
34 trans-1,2-Dichloroethene	96	3.934	3.946	-0.012	99	231423	5.00	5.10	
35 Hexane	57	4.336	4.342	-0.006	90	281228	5.00	4.74	
37 1,1-Dichloroethane	63	4.562	4.574	-0.012	96	412259	5.00	5.01	
38 Isopropyl ether	45	4.641	4.653	-0.012	93	561171	5.00	4.34	
39 2-Chloro-1,3-butadiene	53	4.678	4.690	-0.012	89	289456	5.00	4.60	
40 Tert-butyl ethyl ether	59	5.190	5.196	-0.006	97	507723	5.00	4.46	
41 2-Butanone (MEK)	43	5.415	5.421	-0.006	100	374394	62.5	60.3	
42 cis-1,2-Dichloroethene	96	5.428	5.433	-0.005	81	249071	5.00	5.01	
43 2,2-Dichloropropane	77	5.434	5.446	-0.012	66	352206	5.00	5.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
45 Propionitrile	54	5.525	5.513	0.012	95	46155	37.5	28.8	
48 Methacrylonitrile	67	5.720	5.720	0.000	89	301704	37.5	45.0	
49 Chlorobromomethane	128	5.769	5.775	-0.006	91	100191	5.00	5.38	
50 Tetrahydrofuran	71	5.793	5.793	0.000	85	48995	25.0	27.6	
51 Chloroform	83	5.928	5.933	-0.005	92	417120	5.00	5.17	
\$ 52 Dibromofluoromethane (Surr)	113	6.147	6.153	-0.006	93	401435	10.0	9.93	
53 1,1,1-Trichloroethane	97	6.153	6.159	-0.006	95	367353	5.00	5.14	
54 Cyclohexane	56	6.245	6.256	-0.011	88	341996	5.00	4.80	
55 Carbon tetrachloride	117	6.366	6.372	-0.006	96	332684	5.00	5.44	
56 1,1-Dichloropropene	75	6.373	6.378	-0.005	99	308982	5.00	4.85	
58 Isobutyl alcohol	41	6.592	6.586	0.006	33	31590	125.0	101.5	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.604	6.616	-0.012	92	73805	10.0	9.57	
60 Benzene	78	6.635	6.641	-0.006	96	933881	5.00	4.91	
61 1,2-Dichloroethane	62	6.714	6.714	0.000	98	200695	5.00	4.60	
63 Tert-amyl methyl ether	73	6.848	6.854	-0.006	99	431891	5.00	4.57	
* 64 Fluorobenzene (IS)	96	7.055	7.061	-0.006	99	1713359	10.0	10.0	
65 n-Heptane	43	7.080	7.086	-0.006	90	291317	5.00	5.00	
67 n-Butanol	56	7.525	7.494	0.031	88	46678	250.0	216.2	
68 Trichloroethene	95	7.549	7.549	0.000	98	244317	5.00	5.00	
69 Methylcyclohexane	83	7.848	7.848	0.000	89	385463	5.00	5.16	
70 1,2-Dichloropropane	63	7.872	7.878	-0.006	95	230471	5.00	5.01	
71 2-ethoxy-2-methyl butane	87	7.909	7.915	-0.006	95	325631	5.00	4.91	
73 1,4-Dioxane	88	7.982	7.988	-0.006	28	13965	125.0	172.9	M
74 Dibromomethane	93	7.988	7.994	-0.006	97	96684	5.00	5.12	
72 Methyl methacrylate	69	8.000	7.994	0.006	88	62064	5.00	4.88	
76 Dichlorobromomethane	83	8.232	8.238	-0.006	99	270629	5.00	5.13	
77 2-Nitropropane	41	8.518	8.518	0.000	98	16945	5.00	4.36	M
79 1-Bromo-2-chloroethane	63	8.628	8.628	0.000	99	198941	5.00	5.03	
81 cis-1,3-Dichloropropene	75	8.805	8.805	0.000	97	288508	5.00	4.46	
82 4-Methyl-2-pentanone (MIBK)	43	9.006	9.012	-0.006	95	1070090	62.5	66.6	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1744623	10.0	9.57	
84 Toluene	92	9.226	9.225	0.001	98	592674	5.00	4.68	
85 trans-1,3-Dichloropropene	75	9.524	9.524	0.000	90	235015	5.00	4.44	
86 Ethyl methacrylate	69	9.610	9.609	0.001	87	139419	5.00	4.36	
107 1,1,2-Trichloroethane	97	9.738	9.738	0.000	89	139015	5.00	4.76	
108 Tetrachloroethene	166	9.823	9.823	0.000	96	263991	5.00	4.62	
109 1,3-Dichloropropane	76	9.908	9.908	0.000	88	238247	5.00	4.72	
110 2-Hexanone	43	9.988	9.981	0.007	95	699560	62.5	62.7	
112 Chlorodibromomethane	129	10.128	10.134	-0.006	89	178755	5.00	5.01	
113 Ethylene Dibromide	107	10.244	10.237	0.007	98	122396	5.00	4.71	
* 114 Chlorobenzene-d5 (IS)	117	10.695	10.701	-0.006	84	1313018	10.0	10.0	
115 1-Chlorohexane	91	10.719	10.725	-0.006	96	312992	5.00	4.59	
116 Chlorobenzene	112	10.725	10.725	0.000	97	679289	5.00	4.78	
117 1,1,1,2-Tetrachloroethane	131	10.811	10.817	-0.006	95	229701	5.00	4.98	
118 Ethylbenzene	91	10.823	10.823	0.000	98	1156637	5.00	4.70	
120 m-Xylene & p-Xylene	106	10.945	10.945	0.000	100	927444	10.0	9.77	
121 o-Xylene	106	11.280	11.280	0.000	96	434076	5.00	4.79	
122 Styrene	104	11.298	11.298	0.000	94	691976	5.00	5.02	
123 Bromoform	173	11.451	11.451	0.000	95	87800	5.00	4.76	
124 Isopropylbenzene	105	11.591	11.591	0.000	95	1147598	5.00	5.39	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	88	651125	10.0	10.3	
128 1,1,2,2-Tetrachloroethane	83	11.841	11.841	0.000	66	163164	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
129 Bromobenzene	156	11.841	11.841	0.000	92	260975	5.00	4.70	
130 trans-1,4-Dichloro-2-butene	53	11.871	11.865	0.006	83	54449	25.0	7.96	
131 1,2,3-Trichloropropane	110	11.884	11.883	0.001	81	42053	5.00	4.76	
132 N-Propylbenzene	91	11.920	11.920	0.000	99	1393445	5.00	4.67	
133 2-Chlorotoluene	126	11.993	11.993	0.000	97	281100	5.00	4.74	
134 1,3,5-Trimethylbenzene	105	12.060	12.060	0.000	93	1005963	5.00	4.78	
135 4-Chlorotoluene	126	12.085	12.085	0.000	98	291776	5.00	4.75	
136 tert-Butylbenzene	134	12.304	12.304	0.000	92	199765	5.00	4.37	
138 1,2,4-Trimethylbenzene	105	12.347	12.347	0.000	97	1014847	5.00	4.71	
139 sec-Butylbenzene	105	12.469	12.469	0.000	94	1284641	5.00	4.71	
140 1,3-Dichlorobenzene	146	12.560	12.560	0.000	97	559734	5.00	4.73	
141 4-Isopropyltoluene	119	12.579	12.578	0.001	97	1126314	5.00	4.84	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	95	714554	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.634	12.633	0.001	95	561033	5.00	4.64	
144 1,2,3-Trimethylbenzene	120	12.646	12.652	-0.006	98	435758	5.00	4.73	
145 Benzyl chloride	126	12.719	12.713	0.006	98	62420	5.00	4.65	
146 p-Diethylbenzene	119	12.853	12.847	0.006	94	704022	5.00	4.89	
147 n-Butylbenzene	92	12.871	12.871	0.000	97	579416	5.00	4.85	
148 1,2-Dichlorobenzene	146	12.890	12.889	0.001	98	475529	5.00	4.63	
150 1,2-Dibromo-3-Chloropropane	155	13.438	13.432	0.006	87	17363	5.00	5.12	
151 1,3,5-Trichlorobenzene	180	13.560	13.560	0.000	98	438411	5.00	4.71	
152 1,2,4-Trichlorobenzene	180	13.975	13.974	0.001	94	334899	5.00	4.52	
153 Hexachlorobutadiene	225	14.066	14.066	0.000	98	190876	5.00	4.72	
154 Naphthalene	128	14.152	14.151	0.001	97	442409	5.00	4.49	
155 1,2,3-Trichlorobenzene	180	14.292	14.292	0.000	96	261088	5.00	4.52	
156 2-Methylnaphthalene	142	14.871	14.871	0.000	91	212172	5.00	4.21	
167 Pentane	43	2.757	2.782	-0.025	1	551	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00214

Amount Added: 12.50

Units: uL

MSV_QC_Gas826_00252

Amount Added: 12.50

Units: uL

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Report Date: 01-Apr-2025 14:26:53

Chrom Revision: 2.3 21-Mar-2025 14:03:38

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X03.D

Injection Date: 31-Mar-2025 23:44:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

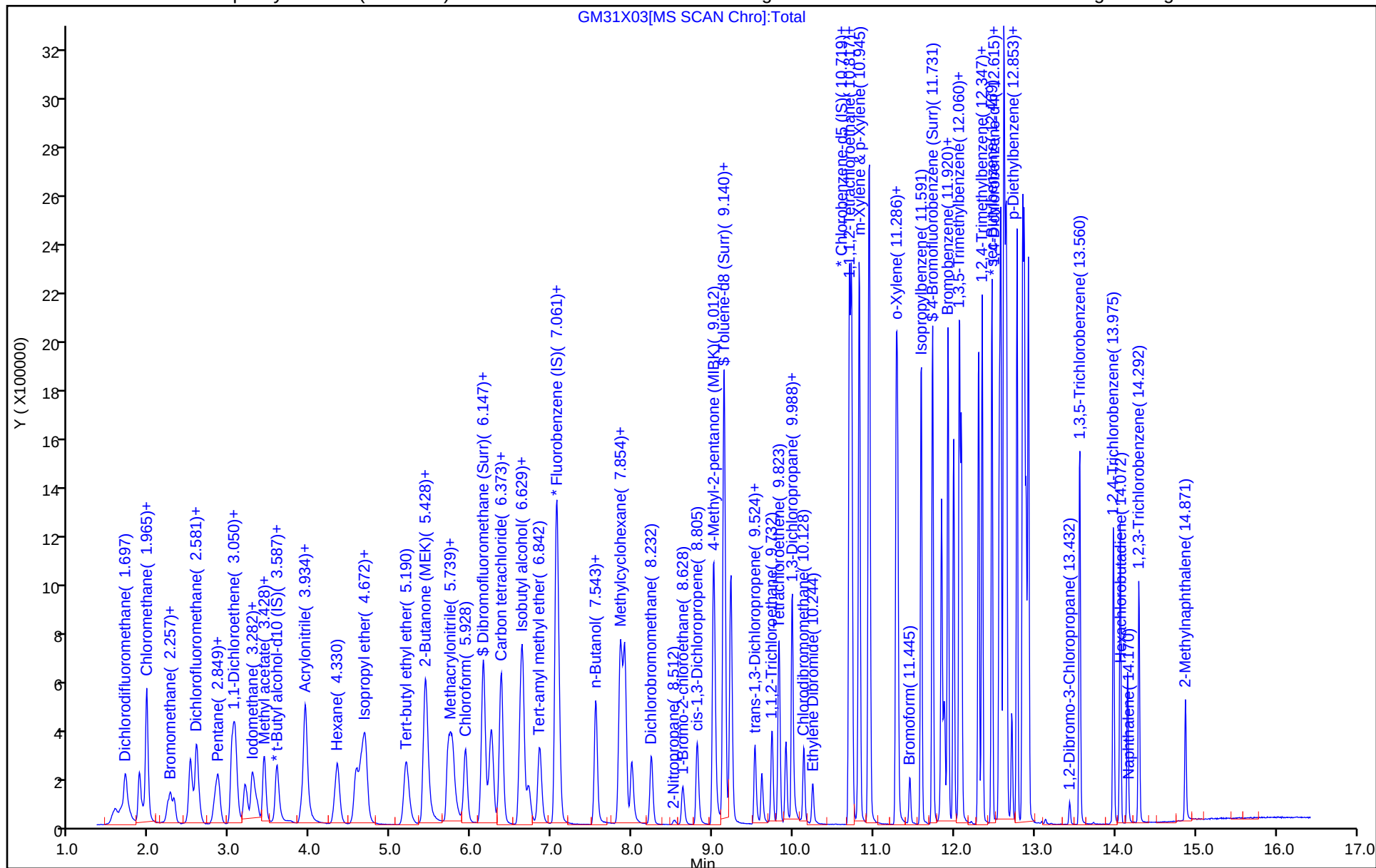
ALS Bottle#: 3

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 31-Mar-2025 23:44:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-004
Misc. Info.: LCS
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Apr-2025 14:26:52 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: JS6E

Date: 01-Apr-2025 00:15:06

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.93	99.31
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.57	95.70
\$ 83 Toluene-d8 (Surr)	10.0	9.57	95.73
\$ 127 4-Bromofluorobenzene (Surr)	10.0	10.3	103.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-6 MS

Matrix: Water

Lab File ID: GM31X17.D

Analysis Method: 8260D

Date Collected: 03/27/2025 11:37

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 04:54

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.98		0.50	0.070
71-55-6	1,1,1-Trichloroethane	6.53		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.43		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.66		0.50	0.080
75-34-3	1,1-Dichloroethane	6.04		0.50	0.10
75-35-4	1,1-Dichloroethene	6.55		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.53		0.50	0.080
107-06-2	1,2-Dichloroethane	5.44		0.50	0.070
78-87-5	1,2-Dichloropropane	5.83		0.50	0.10
78-93-3	2-Butanone (MEK)	73.2		5.0	1.0
591-78-6	2-Hexanone	72.0		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	77.1		5.0	1.0
67-64-1	Acetone	68.7		5.0	1.5
71-43-2	Benzene	5.74		0.50	0.10
74-97-5	Bromochloromethane	6.12		0.50	0.080
75-27-4	Bromodichloromethane	5.96		0.50	0.080
75-25-2	Bromoform	5.60		1.0	0.30
74-83-9	Bromomethane	5.03		0.50	0.10
75-15-0	Carbon disulfide	6.11		1.0	0.10
56-23-5	Carbon tetrachloride	6.59		0.50	0.10
108-90-7	Chlorobenzene	5.82		0.50	0.070
75-00-3	Chloroethane	4.68		0.50	0.10
67-66-3	Chloroform	6.24		0.50	0.090
74-87-3	Chloromethane	4.60		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	7.34		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.01		0.50	0.10
124-48-1	Dibromochloromethane	5.82		0.50	0.080
100-41-4	Ethylbenzene	5.71		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.99		0.50	0.080
75-09-2	Methylene Chloride	5.93		0.50	0.20
100-42-5	Styrene	5.83		0.50	0.070
127-18-4	Tetrachloroethene	10.6		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS Lab Sample ID: 410-214590-6 MS

Matrix: Water Lab File ID: GM31X17.D

Analysis Method: 8260D Date Collected: 03/27/2025 11:37

Sample wt/vol: 25 (mL) Date Analyzed: 04/01/2025 04:54

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.: 624273 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 16334

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	5.74		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	6.03		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.08		0.50	0.080
79-01-6	Trichloroethene	7.52		0.50	0.080
75-01-4	Vinyl chloride	5.38		0.50	0.10
1330-20-7	Xylenes, Total	17.5		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		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\16334\20250331-142555.b\GM31X17.D
 Lims ID: 410-214590-A-6 MS
 Client ID: HD-COD-SW-15-0/1-0 MS
 Sample Type: MS
 Inject. Date: 01-Apr-2025 04:54:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-018
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 02-Apr-2025 07:56:41 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:57:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.715	1.715	0.000	99	325863	5.00	6.56	
5 Chloromethane	50	1.879	1.885	-0.006	99	273978	5.00	4.60	
7 Butadiene	39	1.971	1.977	-0.006	89	359268	5.00	6.55	
6 Vinyl chloride	62	1.983	1.983	0.000	98	289989	5.00	5.38	
9 Bromomethane	94	2.264	2.276	-0.012	91	176376	5.00	5.03	
10 Chloroethane	64	2.312	2.318	-0.006	100	127411	5.00	4.68	
11 Dichlorofluoromethane	67	2.520	2.519	0.001	97	370674	5.00	4.86	
12 Trichlorofluoromethane	101	2.599	2.599	0.000	94	371557	5.00	6.22	
16 1,2-Dichloro-1,1,2-trifluoroethane	67	2.855	2.861	-0.006	92	306912	5.00	6.81	
18 1,1-Dichloroethene	96	3.032	3.038	-0.006	97	229205	5.00	6.55	
19 Acetone	43	3.068	3.068	0.000	82	218346	62.6	68.7	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.074	3.074	0.000	92	232481	5.00	6.31	
22 Iodomethane	142	3.196	3.202	-0.006	99	355644	5.00	5.25	
21 Isopropyl alcohol	45	3.276	3.227	0.049	25	12298	37.5	31.1	
24 Carbon disulfide	76	3.294	3.300	-0.006	99	783531	5.00	6.11	
25 Methyl acetate	43	3.434	3.434	0.000	29	34413	5.00	2.57	
27 3-Chloro-1-propene	41	3.434	3.434	0.000	92	279229	5.00	4.59	
29 Methylene Chloride	84	3.599	3.592	0.007	89	229708	5.00	5.93	
* 30 t-Butyl alcohol-d10 (IS)	65	3.623	3.617	0.006	97	55417	50.0	50.0	
31 2-Methyl-2-propanol	59	3.714	3.720	-0.006	98	41864	50.0	64.3	
32 Acrylonitrile	53	3.903	3.903	0.000	98	138338	25.0	31.8	
33 Methyl tert-butyl ether	73	3.940	3.946	-0.006	94	389798	5.00	4.99	
34 trans-1,2-Dichloroethene	96	3.946	3.946	0.000	100	247973	5.00	6.03	
35 Hexane	57	4.342	4.342	0.000	90	294462	5.00	5.48	
37 1,1-Dichloroethane	63	4.574	4.574	0.000	96	450418	5.00	6.04	
38 Isopropyl ether	45	4.647	4.653	-0.006	97	578925	5.00	4.94	
39 2-Chloro-1,3-butadiene	53	4.690	4.690	0.000	90	306494	5.00	5.37	
40 Tert-butyl ethyl ether	59	5.196	5.196	0.000	97	507117	5.00	4.91	
41 2-Butanone (MEK)	43	5.421	5.421	0.000	99	399104	62.6	73.2	
42 cis-1,2-Dichloroethene	96	5.434	5.433	0.001	81	330449	5.00	7.34	
43 2,2-Dichloropropane	77	5.446	5.446	0.000	61	372950	5.00	5.88	
45 Propionitrile	54	5.525	5.513	0.012	96	46608	37.5	32.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
48 Methacrylonitrile	67	5.720	5.720	0.000	88	307818	37.5	52.4	
49 Chlorobromomethane	128	5.769	5.775	-0.006	91	103232	5.00	6.12	
50 Tetrahydrofuran	71	5.799	5.793	0.006	77	45646	25.0	29.3	
51 Chloroform	83	5.934	5.933	0.001	92	455852	5.00	6.24	
\$ 52 Dibromofluoromethane (Surr)	113	6.153	6.153	0.000	93	371700	10.0	10.2	
53 1,1,1-Trichloroethane	97	6.153	6.159	-0.006	94	422705	5.00	6.53	
54 Cyclohexane	56	6.257	6.256	0.001	88	373372	5.00	5.79	
55 Carbon tetrachloride	117	6.366	6.372	-0.006	96	364825	5.00	6.59	
56 1,1-Dichloropropene	75	6.379	6.378	0.001	99	335565	5.00	5.81	
58 Isobutyl alcohol	41	6.598	6.586	0.012	34	23451	125.1	83.2	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.616	-0.006	91	66609	10.0	9.54	
60 Benzene	78	6.641	6.641	0.000	97	988497	5.00	5.74	
61 1,2-Dichloroethane	62	6.714	6.714	0.000	98	214959	5.00	5.44	
63 Tert-amyl methyl ether	73	6.854	6.854	0.000	98	427070	5.00	4.99	
* 64 Fluorobenzene (IS)	96	7.061	7.061	0.000	99	1551767	10.0	10.0	
65 n-Heptane	43	7.086	7.086	0.000	89	312975	5.00	5.93	
67 n-Butanol	56	7.531	7.494	0.037	92	37506	250.2	201.3	
68 Trichloroethene	95	7.549	7.549	0.000	98	332954	5.00	7.52	
69 Methylcyclohexane	83	7.848	7.848	0.000	88	427354	5.00	6.31	
70 1,2-Dichloropropane	63	7.878	7.878	0.000	96	243337	5.00	5.83	
71 2-ethoxy-2-methyl butane	87	7.915	7.915	0.000	96	331474	5.00	5.52	
73 1,4-Dioxane	88	7.994	7.988	0.006	30	10364	125.1	146.3	M
74 Dibromomethane	93	7.994	7.994	0.000	97	102089	5.00	5.97	
72 Methyl methacrylate	69	8.000	7.994	0.006	88	64045	5.00	5.74	
76 Dichlorobromomethane	83	8.238	8.238	0.000	99	284603	5.00	5.96	
77 2-Nitropropane	41	8.524	8.518	0.006	94	17788	5.00	5.22	
79 1-Bromo-2-chloroethane	63	8.628	8.628	0.000	99	212354	5.00	5.92	
81 cis-1,3-Dichloropropene	75	8.811	8.805	0.006	97	293463	5.00	5.01	
82 4-Methyl-2-pentanone (MIBK)	43	9.012	9.012	0.000	95	1086096	62.6	77.1	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1574477	10.0	9.70	
84 Toluene	92	9.226	9.225	0.001	98	646398	5.00	5.74	
85 trans-1,3-Dichloropropene	75	9.524	9.524	0.000	91	239557	5.00	5.08	
86 Ethyl methacrylate	69	9.610	9.609	0.001	88	138691	5.00	4.87	
107 1,1,2-Trichloroethane	97	9.738	9.738	0.000	90	147169	5.00	5.66	
108 Tetrachloroethene	166	9.823	9.823	0.000	97	537777	5.00	10.6	
109 1,3-Dichloropropane	76	9.908	9.908	0.000	87	248770	5.00	5.53	
110 2-Hexanone	43	9.982	9.981	0.001	96	705041	62.6	72.0	
112 Chlorodibromomethane	129	10.134	10.134	0.000	89	184882	5.00	5.82	
113 Ethylene Dibromide	107	10.244	10.237	0.007	98	128023	5.00	5.53	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	84	1169162	10.0	10.0	
115 1-Chlorohexane	91	10.725	10.725	0.000	95	337853	5.00	5.57	
116 Chlorobenzene	112	10.725	10.725	0.000	96	735680	5.00	5.82	
117 1,1,1,2-Tetrachloroethane	131	10.817	10.817	0.000	95	245622	5.00	5.98	
118 Ethylbenzene	91	10.823	10.823	0.000	98	1250630	5.00	5.71	
120 m-Xylene & p-Xylene	106	10.945	10.945	0.000	100	986092	10.0	11.7	
121 o-Xylene	106	11.280	11.280	0.000	96	464051	5.00	5.75	
122 Styrene	104	11.298	11.298	0.000	95	716189	5.00	5.83	
123 Bromoform	173	11.451	11.451	0.000	95	91894	5.00	5.60	
124 Isopropylbenzene	105	11.591	11.591	0.000	96	1241023	5.00	6.55	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	89	574754	10.0	10.3	
128 1,1,2,2-Tetrachloroethane	83	11.841	11.841	0.000	64	164625	5.00	5.43	
129 Bromobenzene	156	11.841	11.841	0.000	93	274647	5.00	5.40	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
130 trans-1,4-Dichloro-2-butene	53	11.871	11.865	0.006	79	54994	25.0	9.16	
131 1,2,3-Trichloropropane	110	11.884	11.883	0.001	82	43780	5.00	5.41	
132 N-Propylbenzene	91	11.920	11.920	0.000	99	1511544	5.00	5.53	
133 2-Chlorotoluene	126	11.993	11.993	0.000	97	298769	5.00	5.50	
134 1,3,5-Trimethylbenzene	105	12.060	12.060	0.000	94	1082068	5.00	5.62	
135 4-Chlorotoluene	126	12.091	12.085	0.006	97	311338	5.00	5.54	
136 tert-Butylbenzene	134	12.304	12.304	0.000	93	212775	5.00	5.09	
138 1,2,4-Trimethylbenzene	105	12.347	12.347	0.000	97	1088726	5.00	5.52	
139 sec-Butylbenzene	105	12.469	12.469	0.000	94	1403685	5.00	5.62	
140 1,3-Dichlorobenzene	146	12.560	12.560	0.000	97	599324	5.00	5.54	
141 4-Isopropyltoluene	119	12.579	12.578	0.001	97	1206342	5.00	5.66	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	94	653942	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.633	12.633	0.000	95	589723	5.00	5.33	
144 1,2,3-Trimethylbenzene	120	12.652	12.652	0.000	98	457060	5.00	5.42	
145 Benzyl chloride	126	12.719	12.713	0.006	98	62454	5.00	5.08	
146 p-Diethylbenzene	119	12.847	12.847	0.000	93	769753	5.00	5.85	
147 n-Butylbenzene	92	12.871	12.871	0.000	97	637160	5.00	5.83	
148 1,2-Dichlorobenzene	146	12.889	12.889	0.000	98	515027	5.00	5.48	
150 1,2-Dibromo-3-Chloropropane	155	13.432	13.432	0.000	84	18252	5.00	6.13	
151 1,3,5-Trichlorobenzene	180	13.560	13.560	0.000	98	457997	5.00	5.38	
152 1,2,4-Trichlorobenzene	180	13.975	13.974	0.001	94	340141	5.00	5.01	
153 Hexachlorobutadiene	225	14.060	14.066	-0.006	98	204398	5.00	5.52	
154 Naphthalene	128	14.151	14.151	0.000	97	424123	5.00	4.70	
155 1,2,3-Trichlorobenzene	180	14.298	14.292	0.006	96	254145	5.00	4.81	
156 2-Methylnaphthalene	142	14.871	14.871	0.000	91	146484	5.00	3.23	
167 Pentane	43	2.739	2.782	-0.043	2	566	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00214

Amount Added: 5.38

Units: uL

MSV_QC_Gas826_00252

Amount Added: 5.38

Units: uL

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X17.D

Injection Date: 01-Apr-2025 04:54:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-A-6 MS

Worklist Smp#: 18

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

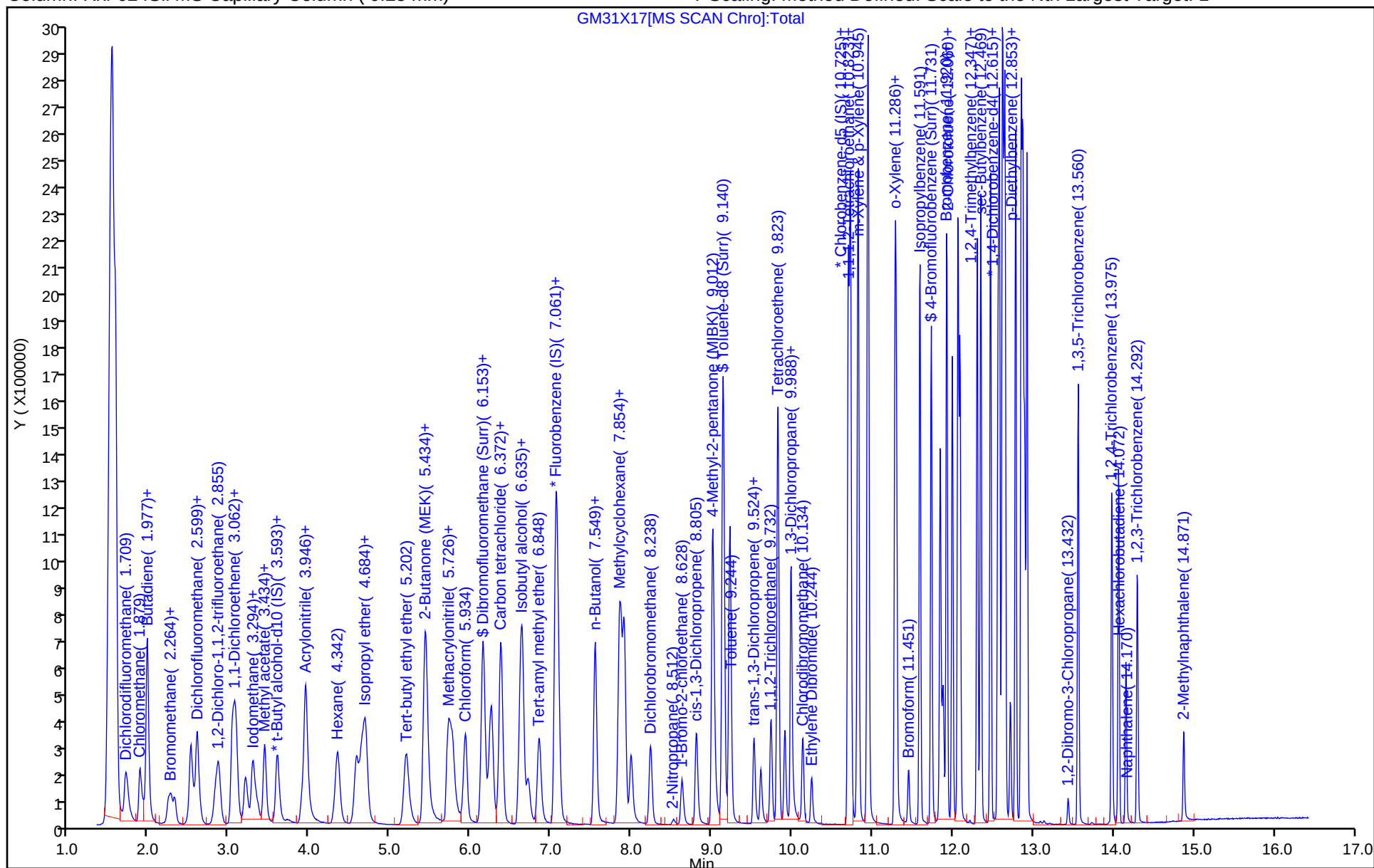
ALS Bottle#: 17

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X17.D
Lims ID: 410-214590-A-6 MS
Client ID: HD-COD-SW-15-0/1-0 MS
Sample Type: MS
Inject. Date: 01-Apr-2025 04:54:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-018
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 02-Apr-2025 07:56:41 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:57:35

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.2	101.52
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.54	95.36
\$ 83 Toluene-d8 (Surr)	10.0	9.70	97.02
\$ 127 4-Bromofluorobenzene (Surr)	10.0	10.3	102.56

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-214590-1

SDG No.:

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

Lab Sample ID: 410-214590-6 MSD

Matrix: Water

Lab File ID: GM31X18.D

Analysis Method: 8260D

Date Collected: 03/27/2025 11:37

Sample wt/vol: 25 (mL)

Date Analyzed: 04/01/2025 05:16

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.: 624273

Units: ug/L

Preparation Batch No.:

Instrument ID: 16334

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.58		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	5.10		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.20		0.50	0.080
75-34-3	1,1-Dichloroethane	5.50		0.50	0.10
75-35-4	1,1-Dichloroethene	6.17		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.16		0.50	0.080
107-06-2	1,2-Dichloroethane	5.30		0.50	0.070
78-87-5	1,2-Dichloropropane	5.47		0.50	0.10
78-93-3	2-Butanone (MEK)	68.8		5.0	1.0
591-78-6	2-Hexanone	66.7		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	71.5		5.0	1.0
67-64-1	Acetone	62.2		5.0	1.5
71-43-2	Benzene	5.35		0.50	0.10
74-97-5	Bromochloromethane	5.89		0.50	0.080
75-27-4	Bromodichloromethane	5.62		0.50	0.080
75-25-2	Bromoform	5.21		1.0	0.30
74-83-9	Bromomethane	4.89		0.50	0.10
75-15-0	Carbon disulfide	5.64		1.0	0.10
56-23-5	Carbon tetrachloride	6.12		0.50	0.10
108-90-7	Chlorobenzene	5.33		0.50	0.070
75-00-3	Chloroethane	4.68		0.50	0.10
67-66-3	Chloroform	5.79		0.50	0.090
74-87-3	Chloromethane	4.72		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	6.86		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.71		0.50	0.10
124-48-1	Dibromochloromethane	5.44		0.50	0.080
100-41-4	Ethylbenzene	5.23		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.71		0.50	0.080
75-09-2	Methylene Chloride	5.46		0.50	0.20
100-42-5	Styrene	5.54		0.50	0.070

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-15-0/1-0 MSD Lab Sample ID: 410-214590-6 MSD
MSD

Matrix: Water Lab File ID: GM31X18.D

Analysis Method: 8260D Date Collected: 03/27/2025 11:37

Sample wt/vol: 25 (mL) Date Analyzed: 04/01/2025 05:16

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.: 624273 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 16334

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	9.83		0.50	0.20
108-88-3	Toluene	5.22		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	5.53		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	4.76		0.50	0.080
79-01-6	Trichloroethene	6.96		0.50	0.080
75-01-4	Vinyl chloride	3.99		0.50	0.10
1330-20-7	Xylenes, Total	16.1		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		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\16334\20250331-142555.b\GM31X18.D
 Lims ID: 410-214590-A-6 MSD
 Client ID: HD-COD-SW-15-0/1-0 MSD
 Sample Type: MSD
 Inject. Date: 01-Apr-2025 05:16:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142555-019
 Operator ID: gaw91131 Instrument ID: 16334
 Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 02-Apr-2025 07:56:41 Calib Date: 03-Dec-2024 18:18:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:56:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.715	1.715	0.000	99	330771	5.00	6.17	
5 Chloromethane	50	1.886	1.885	0.001	99	303340	5.00	4.72	
7 Butadiene	39	1.971	1.977	-0.006	88	294399	5.00	4.97	
6 Vinyl chloride	62	1.983	1.983	0.000	98	232352	5.00	3.99	
9 Bromomethane	94	2.270	2.276	-0.006	91	185323	5.00	4.89	M
10 Chloroethane	64	2.318	2.318	0.000	99	137672	5.00	4.68	
11 Dichlorofluoromethane	67	2.520	2.519	0.001	96	362893	5.00	4.40	
12 Trichlorofluoromethane	101	2.593	2.599	-0.006	94	357336	5.00	5.54	
16 1,2-Dichloro-1,1,2-trifluoroethane	67	2.861	2.861	0.000	92	307035	5.00	6.31	
18 1,1-Dichloroethene	96	3.032	3.038	-0.006	97	233032	5.00	6.17	
19 Acetone	43	3.074	3.068	0.006	70	215490	62.6	62.2	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.074	3.074	0.000	93	231772	5.00	5.83	
22 Iodomethane	142	3.196	3.202	-0.006	99	356202	5.00	4.87	
21 Isopropyl alcohol	45	3.215	3.227	-0.012	25	5572	37.5	13.1	
24 Carbon disulfide	76	3.294	3.300	-0.006	99	781814	5.00	5.64	
25 Methyl acetate	43	3.434	3.434	0.000	28	39906	5.00	2.73	
27 3-Chloro-1-propene	41	3.434	3.434	0.000	92	283991	5.00	4.32	
29 Methylene Chloride	84	3.592	3.592	0.000	88	228218	5.00	5.46	
* 30 t-Butyl alcohol-d10 (IS)	65	3.641	3.617	0.024	96	60361	50.0	50.0	
31 2-Methyl-2-propanol	59	3.757	3.720	0.037	85	39318	50.0	55.4	
32 Acrylonitrile	53	3.903	3.903	0.000	99	139294	25.0	29.4	
33 Methyl tert-butyl ether	73	3.946	3.946	0.000	94	397295	5.00	4.71	
34 trans-1,2-Dichloroethene	96	3.946	3.946	0.000	99	245587	5.00	5.53	
35 Hexane	57	4.342	4.342	0.000	90	299638	5.00	5.16	
37 1,1-Dichloroethane	63	4.574	4.574	0.000	96	442282	5.00	5.50	
38 Isopropyl ether	45	4.641	4.653	-0.012	96	588458	5.00	4.65	
39 2-Chloro-1,3-butadiene	53	4.696	4.690	0.006	90	307999	5.00	5.00	
40 Tert-butyl ethyl ether	59	5.196	5.196	0.000	97	515569	5.00	4.63	
41 2-Butanone (MEK)	43	5.421	5.421	0.000	99	408334	62.6	68.8	
42 cis-1,2-Dichloroethene	96	5.440	5.433	0.007	80	333113	5.00	6.86	
43 2,2-Dichloropropane	77	5.440	5.446	-0.006	58	381826	5.00	5.57	
45 Propionitrile	54	5.531	5.513	0.018	96	67891	37.5	42.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
48 Methacrylonitrile	67	5.726	5.720	0.006	89	308345	37.5	48.2	
49 Chlorobromomethane	128	5.769	5.775	-0.006	90	107298	5.00	5.89	
50 Tetrahydrofuran	71	5.805	5.793	0.012	62	49020	25.0	28.9	
51 Chloroform	83	5.934	5.933	0.001	92	457082	5.00	5.79	
\$ 52 Dibromofluoromethane (Surr)	113	6.153	6.153	0.000	93	401916	10.0	10.2	
53 1,1,1-Trichloroethane	97	6.153	6.159	-0.006	98	420392	5.00	6.01	
54 Cyclohexane	56	6.257	6.256	0.001	88	376202	5.00	5.40	
55 Carbon tetrachloride	117	6.372	6.372	0.000	97	365568	5.00	6.12	
56 1,1-Dichloropropene	75	6.379	6.378	0.001	99	338294	5.00	5.43	
58 Isobutyl alcohol	41	6.610	6.586	0.024	77	25177	125.1	82.7	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.616	0.000	85	71692	10.0	9.50	
60 Benzene	78	6.641	6.641	0.000	96	995566	5.00	5.35	
61 1,2-Dichloroethane	62	6.720	6.714	0.006	97	226070	5.00	5.30	
63 Tert-amyl methyl ether	73	6.854	6.854	0.000	99	440696	5.00	4.77	
* 64 Fluorobenzene (IS)	96	7.061	7.061	0.000	99	1675742	10.0	10.0	
65 n-Heptane	43	7.080	7.086	-0.006	89	317140	5.00	5.56	
67 n-Butanol	56	7.519	7.494	0.025	90	44174	250.2	214.5	
68 Trichloroethene	95	7.549	7.549	0.000	98	332811	5.00	6.96	
69 Methylcyclohexane	83	7.848	7.848	0.000	89	430263	5.00	5.89	
70 1,2-Dichloropropane	63	7.878	7.878	0.000	96	246291	5.00	5.47	
71 2-ethoxy-2-methyl butane	87	7.909	7.915	-0.006	95	335456	5.00	5.17	
73 1,4-Dioxane	88	7.994	7.988	0.006	28	8481	125.1	109.9	M
74 Dibromomethane	93	7.994	7.994	0.000	94	103057	5.00	5.58	
72 Methyl methacrylate	69	8.000	7.994	0.006	86	64257	5.00	5.28	
76 Dichlorobromomethane	83	8.238	8.238	0.000	99	289965	5.00	5.62	
77 2-Nitropropane	41	8.524	8.518	0.006	94	16746	5.00	4.52	
79 1-Bromo-2-chloroethane	63	8.628	8.628	0.000	99	213434	5.00	5.51	
81 cis-1,3-Dichloropropene	75	8.811	8.805	0.006	97	298261	5.00	4.71	
82 4-Methyl-2-pentanone (MIBK)	43	9.012	9.012	0.000	96	1097077	62.6	71.5	
\$ 83 Toluene-d8 (Surr)	98	9.140	9.140	0.000	93	1703379	10.0	9.64	
84 Toluene	92	9.226	9.225	0.001	98	640559	5.00	5.22	
85 trans-1,3-Dichloropropene	75	9.524	9.524	0.000	90	244248	5.00	4.76	
86 Ethyl methacrylate	69	9.610	9.609	0.001	86	145345	5.00	4.69	
107 1,1,2-Trichloroethane	97	9.738	9.738	0.000	90	147392	5.00	5.20	
108 Tetrachloroethene	166	9.823	9.823	0.000	97	544286	5.00	9.83	
109 1,3-Dichloropropane	76	9.908	9.908	0.000	88	249034	5.00	5.08	
110 2-Hexanone	43	9.988	9.981	0.007	95	711584	62.6	66.7	
112 Chlorodibromomethane	129	10.134	10.134	0.000	90	188341	5.00	5.44	
113 Ethylene Dibromide	107	10.244	10.237	0.007	99	130183	5.00	5.16	
* 114 Chlorobenzene-d5 (IS)	117	10.701	10.701	0.000	84	1273574	10.0	10.0	
115 1-Chlorohexane	91	10.725	10.725	0.000	67	341740	5.00	5.17	
116 Chlorobenzene	112	10.725	10.725	0.000	94	734513	5.00	5.33	
117 1,1,1,2-Tetrachloroethane	131	10.817	10.817	0.000	95	249548	5.00	5.58	
118 Ethylbenzene	91	10.823	10.823	0.000	98	1248250	5.00	5.23	
120 m-Xylene & p-Xylene	106	10.945	10.945	0.000	99	998856	10.0	10.8	
121 o-Xylene	106	11.280	11.280	0.000	96	468279	5.00	5.33	
122 Styrene	104	11.298	11.298	0.000	95	740676	5.00	5.54	
123 Bromoform	173	11.451	11.451	0.000	95	93107	5.00	5.21	
124 Isopropylbenzene	105	11.591	11.591	0.000	96	1238367	5.00	6.00	
\$ 127 4-Bromofluorobenzene (Surr)	95	11.731	11.731	0.000	89	633620	10.0	10.4	
128 1,1,2,2-Tetrachloroethane	83	11.841	11.841	0.000	66	166719	5.00	5.10	
129 Bromobenzene	156	11.841	11.841	0.000	92	274812	5.00	5.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
130 trans-1,4-Dichloro-2-butene	53	11.871	11.865	0.006	79	56841	25.0	8.69	
131 1,2,3-Trichloropropane	110	11.884	11.883	0.001	82	43464	5.00	4.99	
132 N-Propylbenzene	91	11.920	11.920	0.000	99	1513369	5.00	5.14	
133 2-Chlorotoluene	126	11.993	11.993	0.000	97	300028	5.00	5.13	
134 1,3,5-Trimethylbenzene	105	12.066	12.060	0.006	93	1088377	5.00	5.25	
135 4-Chlorotoluene	126	12.091	12.085	0.006	97	303482	5.00	5.02	
136 tert-Butylbenzene	134	12.304	12.304	0.000	93	215000	5.00	4.78	
138 1,2,4-Trimethylbenzene	105	12.347	12.347	0.000	97	1098392	5.00	5.17	
139 sec-Butylbenzene	105	12.469	12.469	0.000	94	1421347	5.00	5.29	
140 1,3-Dichlorobenzene	146	12.560	12.560	0.000	97	605497	5.00	5.20	
141 4-Isopropyltoluene	119	12.579	12.578	0.001	97	1206969	5.00	5.26	
* 142 1,4-Dichlorobenzene-d4	152	12.615	12.615	0.000	94	704204	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.633	12.633	0.000	95	603237	5.00	5.07	
144 1,2,3-Trimethylbenzene	120	12.646	12.652	-0.006	98	468024	5.00	5.15	
145 Benzyl chloride	126	12.713	12.713	0.000	98	64428	5.00	4.87	
146 p-Diethylbenzene	119	12.853	12.847	0.006	93	771729	5.00	5.44	
147 n-Butylbenzene	92	12.871	12.871	0.000	97	630246	5.00	5.35	
148 1,2-Dichlorobenzene	146	12.889	12.889	0.000	98	518275	5.00	5.12	
150 1,2-Dibromo-3-Chloropropane	155	13.432	13.432	0.000	83	18176	5.00	5.61	
151 1,3,5-Trichlorobenzene	180	13.560	13.560	0.000	98	458819	5.00	5.01	
152 1,2,4-Trichlorobenzene	180	13.981	13.974	0.007	94	346834	5.00	4.75	
153 Hexachlorobutadiene	225	14.060	14.066	-0.006	98	208003	5.00	5.22	
154 Naphthalene	128	14.151	14.151	0.000	97	454589	5.00	4.68	
155 1,2,3-Trichlorobenzene	180	14.298	14.292	0.006	95	268787	5.00	4.72	
156 2-Methylnaphthalene	142	14.871	14.871	0.000	92	184838	5.00	3.75	
167 Pentane	43	2.751	2.782	-0.031	1	539	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00214

Amount Added: 5.38

Units: uL

MSV_QC_Gas826_00252

Amount Added: 5.38

Units: uL

MSV_29_826ISS_00058

Amount Added: 1.20

Units: uL

Run Reagent

Report Date: 02-Apr-2025 07:56:59

Chrom Revision: 2.3 21-Mar-2025 14:03:38

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X18.D

Injection Date: 01-Apr-2025 05:16:30

Instrument ID: 16334

Operator ID: gaw91131

Lims ID: 410-214590-A-6 MSD

Worklist Smp#: 19

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

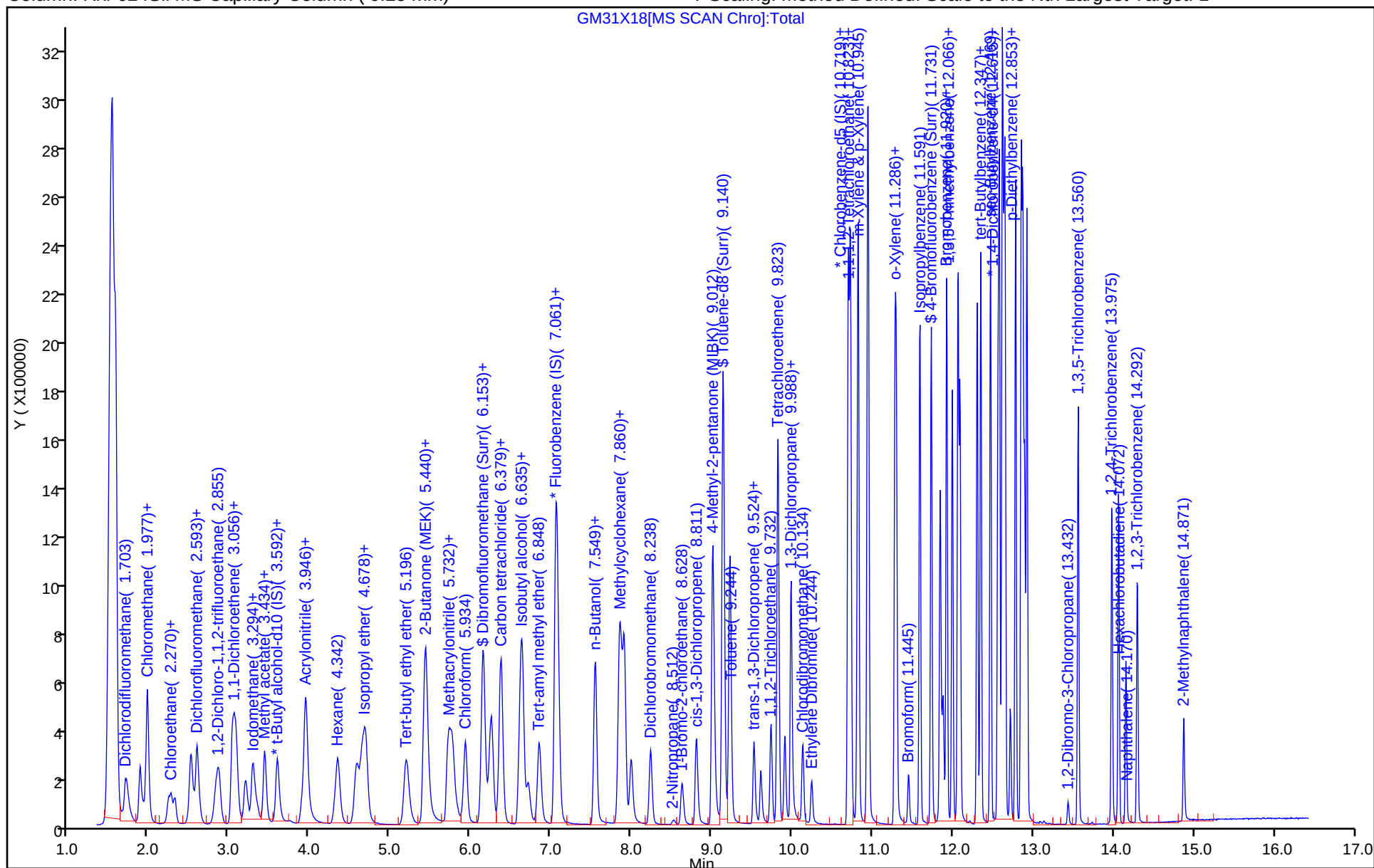
ALS Bottle#: 18

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X18.D
Lims ID: 410-214590-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0 MSD
Sample Type: MSD
Inject. Date: 01-Apr-2025 05:16:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0142555-019
Operator ID: gaw91131 Instrument ID: 16334
Method: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 02-Apr-2025 07:56:41 Calib Date: 03-Dec-2024 18:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20241203-132221.b\GD03X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: FQ4L

Date: 02-Apr-2025 07:56:59

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.2	101.66
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.50	95.05
\$ 83 Toluene-d8 (Surr)	10.0	9.64	96.36
\$ 127 4-Bromofluorobenzene (Surr)	10.0	10.4	103.79

Eurofins Lancaster Laboratories Environment Testing, LLC

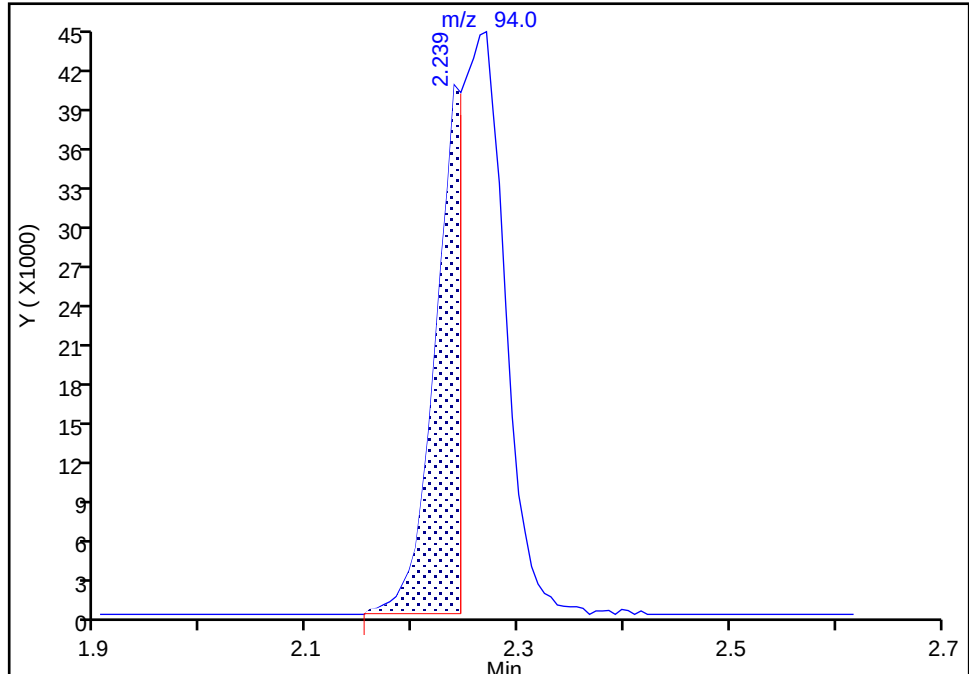
Data File: \\chromfs\Lancaster\ChromData\16334\20250331-142555.b\GM31X18.D
Injection Date: 01-Apr-2025 05:16:30 Instrument ID: 16334
Lims ID: 410-214590-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0 MSD
Operator ID: gaw91131 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL 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

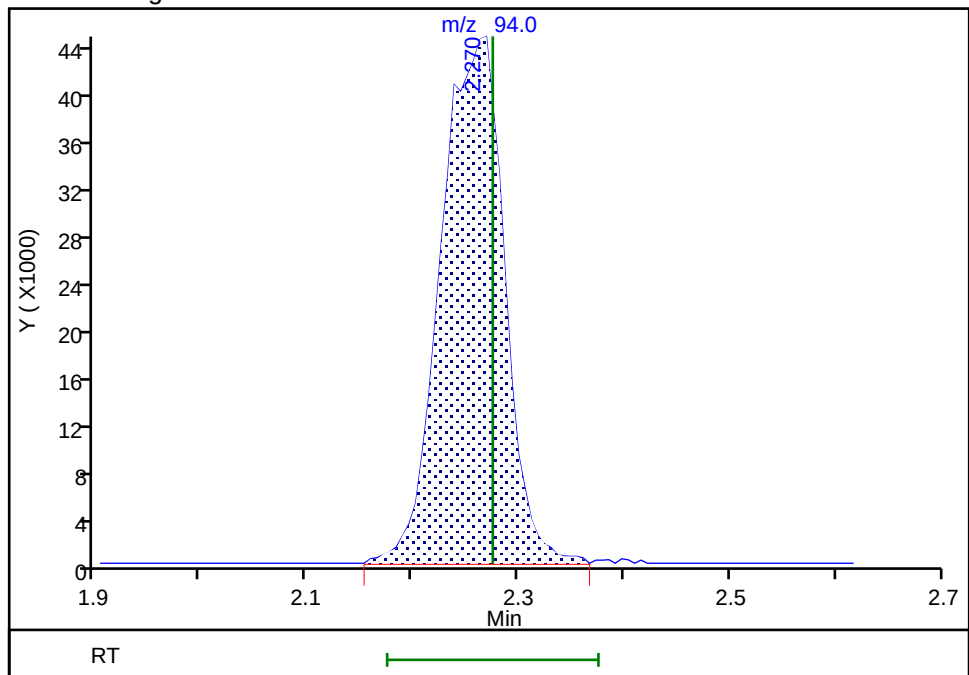
RT: 2.24
Area: 72328
Amount: 1.909203
Amount Units: ug/l

Processing Integration Results



RT: 2.27
Area: 185323
Amount: 4.891872
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 02-Apr-2025 07:55:28 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.: 410-214590-1

SDG No.:

Instrument ID: 16334

Start Date: 11/30/2020 11:46

Analysis Batch Number: 70996

End Date: 11/30/2020 18:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-70996/1		11/30/2020 11:46	1	GN30T01.D	R-624SiIMS 30m 0.25 (mm)
IC 410-70996/3		11/30/2020 12:50	1	GN30I01.D	R-624SiIMS 30m 0.25 (mm)
ICIS 410-70996/4		11/30/2020 13:12	1	GN30I02.D	R-624SiIMS 30m 0.25 (mm)
IC 410-70996/5		11/30/2020 13:34	1	GN30I03.D	R-624SiIMS 30m 0.25 (mm)
IC 410-70996/6		11/30/2020 13:56	1	GN30I04.D	R-624SiIMS 30m 0.25 (mm)
IC 410-70996/7		11/30/2020 14:19	1	GN30I05.D	R-624SiIMS 30m 0.25 (mm)
IC 410-70996/8		11/30/2020 14:41	1	GN30I06.D	R-624SiIMS 30m 0.25 (mm)
IC 410-70996/9		11/30/2020 15:03	1	GN30I07.D	R-624SiIMS 30m 0.25 (mm)
ICV 410-70996/10		11/30/2020 15:26	1		R-624SiIMS 30m 0.25 (mm)
IC 410-70996/12		11/30/2020 16:10	1		R-624SiIMS 30m 0.25 (mm)
IC 410-70996/13		11/30/2020 16:32	1		R-624SiIMS 30m 0.25 (mm)
IC 410-70996/14		11/30/2020 16:54	1		R-624SiIMS 30m 0.25 (mm)
IC 410-70996/15		11/30/2020 17:16	1		R-624SiIMS 30m 0.25 (mm)
IC 410-70996/16		11/30/2020 17:39	1		R-624SiIMS 30m 0.25 (mm)
IC 410-70996/17		11/30/2020 18:01	1		R-624SiIMS 30m 0.25 (mm)
IC 410-70996/18		11/30/2020 18:23	1		R-624SiIMS 30m 0.25 (mm)
ICV 410-70996/19		11/30/2020 18:45	1	GN30V11.D	R-624SiIMS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Instrument ID: 16334

Start Date: 12/03/2024 15:12

Analysis Batch Number: 581544

End Date: 12/03/2024 19:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-581544/1		12/03/2024 15:12	1	GD03T01.D	R-624Si1MS 30m 0.25 (mm)
IC 410-581544/13		12/03/2024 16:05	1	GD03X12.D	R-624Si1MS 30m 0.25 (mm)
IC 410-581544/14		12/03/2024 16:27	1	GD03X13.D	R-624Si1MS 30m 0.25 (mm)
IC 410-581544/15		12/03/2024 16:50	1	GD03X14.D	R-624Si1MS 30m 0.25 (mm)
IC 410-581544/16		12/03/2024 17:12	1	GD03X15.D	R-624Si1MS 30m 0.25 (mm)
IC 410-581544/17		12/03/2024 17:34	1	GD03X16.D	R-624Si1MS 30m 0.25 (mm)
ICIS 410-581544/18		12/03/2024 17:56	1	GD03X17.D	R-624Si1MS 30m 0.25 (mm)
IC 410-581544/19		12/03/2024 18:18	1	GD03X18.D	R-624Si1MS 30m 0.25 (mm)
ICV 410-581544/21		12/03/2024 19:02	1	GD03X20.D	R-624Si1MS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-214590-1

SDG No.:

Instrument ID: 16334

Start Date: 03/31/2025 22:46

Analysis Batch Number: 624273

End Date: 04/01/2025 08:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-624273/1		03/31/2025 22:46	1	GM31T03.D	R-624Si1MS 30m 0.25 (mm)
CCVIS 410-624273/3		03/31/2025 23:22	1	GM31X02.D	R-624Si1MS 30m 0.25 (mm)
LCS 410-624273/4		03/31/2025 23:44	1	GM31X03.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ (QC)		04/01/2025 00:06	1		R-624Si1MS 30m 0.25 (mm)
MB 410-624273/6		04/01/2025 00:28	1	GM31X05.D	R-624Si1MS 30m 0.25 (mm)
410-214590-14	HD-QC1-0/1-2	04/01/2025 00:50	1	GM31X06.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		04/01/2025 01:12	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		04/01/2025 01:34	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		04/01/2025 01:58	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		04/01/2025 02:19	1		R-624Si1MS 30m 0.25 (mm)
410-214590-1	HD-COD-SW-6-0/1-0	04/01/2025 02:41	1	GM31X11.D	R-624Si1MS 30m 0.25 (mm)
410-214590-2	HD-COD-SW-7-0/1-0	04/01/2025 03:03	1	GM31X12.D	R-624Si1MS 30m 0.25 (mm)
410-214590-3	HD-COD-SW-8-0/1-0	04/01/2025 03:26	1	GM31X13.D	R-624Si1MS 30m 0.25 (mm)
410-214590-4	HD-COD-SW-9-0/1-0	04/01/2025 03:48	1	GM31X14.D	R-624Si1MS 30m 0.25 (mm)
410-214590-5	HD-COD-SW-13-0/1-0	04/01/2025 04:10	1	GM31X15.D	R-624Si1MS 30m 0.25 (mm)
410-214590-6	HD-COD-SW-15-0/1-0	04/01/2025 04:32	1	GM31X16.D	R-624Si1MS 30m 0.25 (mm)
410-214590-6 MS	HD-COD-SW-15-0/1-0 MS MS	04/01/2025 04:54	1	GM31X17.D	R-624Si1MS 30m 0.25 (mm)
410-214590-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	04/01/2025 05:16	1	GM31X18.D	R-624Si1MS 30m 0.25 (mm)
410-214590-7	HD-COD-SW-16-0/1-0	04/01/2025 05:38	1	GM31X19.D	R-624Si1MS 30m 0.25 (mm)
410-214590-9	HD-COD-SW-26-0/1-0	04/01/2025 06:00	1	GM31X20.D	R-624Si1MS 30m 0.25 (mm)
410-214590-10	HD-COD-SW-27-0/1-0	04/01/2025 06:22	1	GM31X21.D	R-624Si1MS 30m 0.25 (mm)
410-214590-11	HD-COD-SW-28-0/1-0	04/01/2025 06:44	1	GM31X22.D	R-624Si1MS 30m 0.25 (mm)
410-214590-12	HD-COD-SW-29-0/1-0	04/01/2025 07:06	1	GM31X23.D	R-624Si1MS 30m 0.25 (mm)
410-214590-8	HD-COD-SW-17-0/1-0	04/01/2025 07:28	1	GM31X24.D	R-624Si1MS 30m 0.25 (mm)
410-214590-8 DL	HD-COD-SW-17-0/1-0 DL	04/01/2025 07:50	20	GM31X25.D	R-624Si1MS 30m 0.25 (mm)
410-214590-13	HD-QC1-0/1-1	04/01/2025 08:12	1	GM31X26.D	R-624Si1MS 30m 0.25 (mm)
410-214590-13 DL	HD-QC1-0/1-1 DL	04/01/2025 08:34	20	GM31X27.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		04/01/2025 08:56	1		R-624Si1MS 30m 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1

SDG No.: _____

Batch Number: 70996 Batch Start Date: 11/30/20 11:46 Batch Analyst: Viray, Don VBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	MSV_29_826ISS_00013	MSV_Q_CDFM_25_00008	MSV_Q_QARC_00056	MSV_Q_QDME_00010
BFB 410-70996/1		8260D			1 uL	1 uL				
IC 410-70996/3		8260D			25 mL	25 mL	1 uL			
ICIS 410-70996/4		8260D			25 mL	25 mL	1 uL			
IC 410-70996/5		8260D			25 mL	25 mL	1 uL			
IC 410-70996/6		8260D			25 mL	25 mL	1 uL			
IC 410-70996/7		8260D			25 mL	25 mL	1 uL			
IC 410-70996/8		8260D			25 mL	25 mL	1 uL			
IC 410-70996/9		8260D			25 mL	25 mL	1 uL			
ICV 410-70996/19		8260D			25 mL	25 mL	1 uL	5 uL	12.5 uL	5 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_Q_VOA5_00018	MSV_QAcet_00012	MSV_QCYC_00004	MSV_QLKB_00003	MSV_QREV4_25_00013	MSV_RV1_826_00031
BFB 410-70996/1		8260D								
IC 410-70996/3		8260D								25 uL
ICIS 410-70996/4		8260D								10 uL
IC 410-70996/5		8260D								5 uL
IC 410-70996/6		8260D								2 uL
IC 410-70996/7		8260D								2 uL
IC 410-70996/8		8260D								2 uL
IC 410-70996/9		8260D								2 uL
ICV 410-70996/19		8260D			25 uL	7.5 uL	12.5 uL	25 uL	12.5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_RV4_826_00035	MSV_RV4GAS826_00097	MSV_V_BFB_00003		
BFB 410-70996/1		8260D					1 uL		
IC 410-70996/3		8260D			25 uL	25 uL			
ICIS 410-70996/4		8260D			10 uL	10 uL			
IC 410-70996/5		8260D			5 uL	5 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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1

SDG No.: _____

Batch Number: 70996 Batch Start Date: 11/30/20 11:46 Batch Analyst: Viray, Don VBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_RV4_826 00035	MSV_RV4GAS826 00097	MSV_V_BFB 00003			
IC 410-70996/6		8260D			2 uL	2 uL				
IC 410-70996/7		8260D			2 uL	2 uL				
IC 410-70996/8		8260D			2 uL	2 uL				
IC 410-70996/9		8260D			2 uL	2 uL				
ICV 410-70996/19		8260D								

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1

SDG No.: _____

Batch Number: 581544 Batch Start Date: 12/03/24 15:12 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00009	MSV_29_826ISS 00057	MSV_LCS_ACROL 00201
BFB 410-581544/1		8260D			1 uL	1 uL				
IC 410-581544/13		8260D			25 mL	25 mL	2774		1.199 uL	
IC 410-581544/14		8260D			25 mL	25 mL	2774		1.199 uL	
IC 410-581544/15		8260D			25 mL	25 mL	2774		1.199 uL	
IC 410-581544/16		8260D			25 mL	25 mL	2774		1.199 uL	
IC 410-581544/17		8260D			25 mL	25 mL	2774		1.199 uL	
ICIS 410-581544/18		8260D			25 mL	25 mL	2774		1.199 uL	
IC 410-581544/19		8260D			25 mL	25 mL	2774		1.199 uL	
ICV 410-581544/21		8260D			25 mL	25 mL	2774	12.5 uL	1.199 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_EE 00010	MSV_LCS_Penta 00048	MSV_LCS_VOC#1 00197	MSV_LL_#1_826 00155	MSV_LL_#2_826 00163	MSV_LL_GAS826 00247
BFB 410-581544/1		8260D								
IC 410-581544/13		8260D						2 uL	2 uL	2 uL
IC 410-581544/14		8260D						2 uL	2 uL	2 uL
IC 410-581544/15		8260D						2 uL	2 uL	2 uL
IC 410-581544/16		8260D						2 uL	2 uL	2 uL
IC 410-581544/17		8260D						5 uL	5 uL	5 uL
ICIS 410-581544/18		8260D						10 uL	10 uL	10 uL
IC 410-581544/19		8260D						25 uL	25 uL	25 uL
ICV 410-581544/21		8260D			12.5 uL	12.5 uL	12.5 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 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1

SDG No.: _____

Batch Number: 581544 Batch Start Date: 12/03/24 15:12 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_QC_Gas826 00234	MSV_V_BFB 00018				
BFB 410-581544/1		8260D				1 uL				
IC 410-581544/13		8260D								
IC 410-581544/14		8260D								
IC 410-581544/15		8260D								
IC 410-581544/16		8260D								
IC 410-581544/17		8260D								
ICIS 410-581544/18		8260D								
IC 410-581544/19		8260D								
ICV 410-581544/21		8260D			12.5 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1

SDG No.: _____

Batch Number: 624273 Batch Start Date: 03/31/25 22:46 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 410-624273/1		8260D			1 uL	1 uL				
CCVIS 410-624273/3		8260D			25 mL	25 mL				2788
LCS 410-624273/4		8260D			25 mL	25 mL				2788
MB 410-624273/6		8260D			25 mL	25 mL				2788
410-214590-A-14	HD-QC1-0/1-2	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-214590-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-214590-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-214590-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-214590-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-214590-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-214590-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-214590-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-214590-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-214590-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-214590-A-9	HD-COD-SW-26-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-214590-A-10	HD-COD-SW-27-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-214590-A-11	HD-COD-SW-28-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-214590-A-12	HD-COD-SW-29-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-214590-A-8	HD-COD-SW-17-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-214590-B-8	HD-COD-SW-17-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	2788
410-214590-A-13	HD-QC1-0/1-1	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-214590-B-13	HD-QC1-0/1-1	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	2788

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1

SDG No.: _____

Batch Number: 624273 Batch Start Date: 03/31/25 22:46 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_29_826ISS 00058	MSV_LCS_VOC#1 00214	MSV_LL_#1_826 00163	MSV_LL_#2_826 00174	MSV_LL_GAS826 00264	MSV_QC_Gas826 00252
BFB 410-624273/1		8260D								
CCVIS 410-624273/3		8260D			1.199 uL		20 uL	20 uL	20 uL	
LCS 410-624273/4		8260D			1.199 uL	12.5 uL				12.5 uL
MB 410-624273/6		8260D			1.199 uL					
410-214590-A-14	HD-QC1-0/1-2	8260D	Water	T	1.199 uL					
410-214590-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T	1.199 uL					
410-214590-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T	1.199 uL					
410-214590-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T	1.199 uL					
410-214590-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T	1.199 uL					
410-214590-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T	1.199 uL					
410-214590-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T	1.199 uL					
410-214590-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T	1.199 uL	5.38 uL				5.38 uL
410-214590-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T	1.199 uL	5.38 uL				5.38 uL
410-214590-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T	1.199 uL					
410-214590-A-9	HD-COD-SW-26-0/1-0	8260D	Water	T	1.199 uL					
410-214590-A-10	HD-COD-SW-27-0/1-0	8260D	Water	T	1.199 uL					
410-214590-A-11	HD-COD-SW-28-0/1-0	8260D	Water	T	1.199 uL					
410-214590-A-12	HD-COD-SW-29-0/1-0	8260D	Water	T	1.199 uL					
410-214590-A-8	HD-COD-SW-17-0/1-0	8260D	Water	T	1.199 uL					
410-214590-B-8	HD-COD-SW-17-0/1-0	8260D	Water	T	1.199 uL					
410-214590-A-13	HD-QC1-0/1-1	8260D	Water	T	1.199 uL					
410-214590-B-13	HD-QC1-0/1-1	8260D	Water	T	1.199 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.: 410-214590-1

SDG No.: _____

Batch Number: 624273 Batch Start Date: 03/31/25 22:46 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_BFB 00018					
BFB 410-624273/1		8260D			1 uL					
CCVIS 410-624273/3		8260D								
LCS 410-624273/4		8260D								
MB 410-624273/6		8260D								
410-214590-A-14	HD-QC1-0/1-2	8260D	Water	T						
410-214590-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T						
410-214590-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T						
410-214590-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T						
410-214590-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T						
410-214590-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T						
410-214590-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T						
410-214590-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T						
410-214590-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T						
410-214590-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T						
410-214590-A-9	HD-COD-SW-26-0/1-0	8260D	Water	T						
410-214590-A-10	HD-COD-SW-27-0/1-0	8260D	Water	T						
410-214590-A-11	HD-COD-SW-28-0/1-0	8260D	Water	T						
410-214590-A-12	HD-COD-SW-29-0/1-0	8260D	Water	T						
410-214590-A-8	HD-COD-SW-17-0/1-0	8260D	Water	T						
410-214590-B-8	HD-COD-SW-17-0/1-0	8260D	Water	T						
410-214590-A-13	HD-QC1-0/1-1	8260D	Water	T						
410-214590-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

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-214590-1

SDG No.: _____

Batch Number: 624273 Batch Start Date: 03/31/25 22:46 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



410-214590 Chain of Custody

Environmental Analysis Request/Chain of Custody

Acct. # _____ Group # _____ Sample # _____

Client: Groundwater Sciences Corporation				Matrix			Analyses Requested										For Lab Use Only				
Project Name/#: YNOP Monthly Surface Water		Site ID #: YNOP, York PA		☐ Tissue	☐ Ground	☒ Surface	Preservation Codes										SF #: _____				
Project Manager: Chris O'Neil		P.O. #: 10012.53		☐ Potable	☐ NPDES	Other: _____	Total # of Containers	Aqueous VOCs via 8260D (low level - 25 ml purge)	H											SCR #: _____	
Sampler: Casey Littlefield / Lucas Grimm		PWSID #: N/A		☐ Sediment	☐ Water																
Phone #: (717) 901-8176 / (717) 756-1246		Quote #:																		H = HCl T = Thiosulfate	
State where samples were collected: York, PA		For Compliance: Yes ☐ No ☒																		N = HNO ₃ B = NaOH	
																				S = H ₂ SO ₄ P = H ₃ PO ₄	
																				O = Other	
Sample Identification		Collection		Grab	Composite															Remarks	
HD-COD-SW-6-0/1-0		3/27/25	1040	X					3	X										All Samples	
HD-COD-SW-7-0/1-0		3/27/25	1118	X					3	X										preserved on ice	
HD-COD-SW-8-0/1-0		3/27/25	0842	X					3	X											
HD-COD-SW-9-0/1-0		3/27/25	1230	X					3	X											
HD-COD-SW-13-0/1-0		3/27/25	0855	X					3	X											
HD-COD-SW-15-0/1-0		3/27/25	1137	X					3	X											
HD-COD-SW-15-0/1-0 MS		3/27/25	1137	X					3	X											
HD-COD-SW-15-0/1-0 MSD		3/27/25	1137	X					3	X											
HD-COD-SW-16-0/1-0		3/27/25	0915	X					3	X											
HD-COD-SW-17-0/1-0		3/27/25	0922	X					3	X											
Turnaround Time Requested (TAT) (please check): Standard ☒ Rush ☐				Relinquished by: _____				Date	Time	Received by: _____				Date	Time						
(Rush TAT is subject to laboratory approval and surcharges.)				_____				3/28/25	1048	_____				3/28/25	1048						
Date results are needed: STANDARD				Relinquished by: _____				Date	Time	Received by: _____				Date	Time						
Rush results requested by (please check): E-Mail ☐ Phone ☐				_____				3/28/25	1600	_____											
E-mail Address: ON-FILE				Relinquished by: _____				Date	Time	Received by: _____				Date	Time						
Phone: _____				_____						_____											
Data Package Options (please check if required)				Relinquished by: _____				Date	Time	Received by: _____				Date	Time						
Type I (Validation/non-CLP) ☐		MA MCP ☐		_____						_____											
Type III (Reduced non-CLP) ☐		CT RCP ☐		_____						_____											
Type VI (Raw Data Only) ☐		TX TRRP-13 ☐		_____						_____											
NJ DKQP ☐		NYSDEC Category ☐ A or ☐ B		_____						_____											
CLP Like Deliverables, Project Specific Analyte List				Relinquished by Commercial Carrier: _____				Temperature upon receipt _____ °C				R: 3.1 C: 3.1									
EDD Required? Yes ☒ No ☐ If yes, format: _____				UPS _____ FedEx _____ Other _____																	



**Lancaster Laboratories
Environmental**

Acct. #	Group #	Sample #
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Environmental Analysis Request/Chain of Custody

Client: Groundwater Sciences Corporation						Matrix			Analyses Requested								For Lab Use Only					
Project Name#: FYNOP Monthly Surface Water			Site ID #: FYNOP, York PA			☐ Sediment ☐ Tissue ☐ Potable ☐ Water ☐ NPDES	☐ Ground ☐ Surface	☒	Other: Trip Blank	Total # of Containers	Preservation Codes								SF #:			
Project Manager: Chris O'Neil			P.O. #: 10012.53								H										SCR #:	
Sampler: Casey Littlefield / Lucas Grimm			PWSID #: N/A																			Preservation Codes
Phone #: (717) 901-8176 / (717) 756-1246			Quote #:																			H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other
State where samples were collected: York, PA						For Compliance: Yes ☐ No ☒																
Sample Identification				Collection		Grab	Composite											Remarks				
				Date	Time																	
HD-COD-SW-26-0/1-0				3/27/25	1100	X			X		3	X										
HD-COD-SW-27-0/1-0				3/27/25	1130	X			X		3	X										
HD-COD-SW-28-0/1-0				3/27/25	1245	X			X		3	X										
HD-COD-SW-29-0/1-0				3/27/25	0830	X			X		3	X										
HD-QC1-0/1-1				3/27/25	0800	X			X		3	X										
HD-QC1-0/1-2				3/26/25	-	X				X	2	X							Trip Blank			
Turnaround Time Requested (TAT) (please check): Standard ☒ Rush ☐ (Rush TAT is subject to laboratory approval and surcharges.)						Relinquished by: [Signature]			Date	Time	Received by: [Signature]			Date	Time							
Date results are needed: STANDARD						Relinquished by: [Signature]			Date	Time	Received by:			Date	Time							
Rush results requested by (please check): E-Mail ☐ Phone ☐						Relinquished by:			Date	Time	Received by:			Date	Time							
E-mail Address: ON-FILE									Date	Time				Date	Time							
Phone:									Date	Time				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				Date	Time							
Type III (Reduced non-CLP) ☐ CT RCP ☐									Date	Time				Date	Time							
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐									Date	Time				Date	Time							
NJ DKQP ☐ NYSDCE Category ☐ A or ☐ B									Date	Time				Date	Time							
EDD Required? Yes ☒ No ☐ If yes, format: CLP Like Deliverables, Project Specific Analyte List						Relinquished by Commercial Carrier:						Temperature upon receipt R: 3.1 C: 3.1 °C										
UPS _____ FedEx _____ Other _____																						

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-214590-1

Login Number: 214590

List Number: 1

Creator: McDonald, Teigan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(<=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (<=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	