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ANALYTICAL REPORT

PREPARED FOR

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

Generated 09/30/2024

JOB DESCRIPTION

fYNOP Monthly Surface Water

JOB NUMBER

410-189680-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

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
09/30/2024

Authorized for release by
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717 205-7820

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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
410-189680-1

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 9/25/2024 2:38 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

GC/MS VOA
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
Job ID: 410-189680-1
Project/Site: fYNOP Monthly Surface Water

Client Sample ID: HD-COD-SW-6-0/1-0
Lab Sample ID: 410-189680-1

No Detections.

Client Sample ID: HD-COD-SW-7-0/1-0
Lab Sample ID: 410-189680-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.10	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.18	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-8-0/1-0
Lab Sample ID: 410-189680-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.10	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.68		0.50	0.20	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-9-0/1-0
Lab Sample ID: 410-189680-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.10	J	0.50	0.090	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.21	J	0.50	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-13-0/1-0
Lab Sample ID: 410-189680-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.11	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.1		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.18	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-15-0/1-0
Lab Sample ID: 410-189680-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.20	J	0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.12	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.17	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.64		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	3.9		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.87		0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-16-0/1-0
Lab Sample ID: 410-189680-7

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
cis-1,2-Dichloroethene	0.13	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.8		0.50	0.20	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-17-0/1-0
Lab Sample ID: 410-189680-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.3		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.19	J	0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.11	J	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.47	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	21		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.81		0.50	0.080	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: HD-COD-SW-26-0/1-0 — Lab Sample ID: 410-189680-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.63		0.50	0.090	ug/L	1		8260D	Total/NA
Tetrachloroethene	3.4		0.50	0.20	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-27-0/1-0 — Lab Sample ID: 410-189680-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.15	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.094	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.20	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-28-0/1-0 — Lab Sample ID: 410-189680-11

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	0.084	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-29-0/1-0 — Lab Sample ID: 410-189680-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.086	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.36	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.13	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-QC1-0/1-1 — Lab Sample ID: 410-189680-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.4		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.23	J	0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.11	J	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.47	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	22		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.89		0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-QC1-0/1-2 — Lab Sample ID: 410-189680-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.16	J	1.0	0.10	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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

Lab Sample ID: 410-189680-1

Date Collected: 09/23/24 11:50

Matrix: Water

Date Received: 09/25/24 14:38

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			09/27/24 20:42	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 20:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/27/24 20:42	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 20:42	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/27/24 20:42	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 20:42	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/27/24 20:42	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/27/24 20:42	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/27/24 20:42	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/27/24 20:42	1
2-Hexanone	ND		5.0	2.0	ug/L			09/27/24 20:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/27/24 20:42	1
Acetone	ND		5.0	1.5	ug/L			09/27/24 20:42	1
Benzene	ND		0.50	0.10	ug/L			09/27/24 20:42	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/27/24 20:42	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/27/24 20:42	1
Bromoform	ND		1.0	0.30	ug/L			09/27/24 20:42	1
Bromomethane	ND		0.50	0.10	ug/L			09/27/24 20:42	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/27/24 20:42	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/27/24 20:42	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/27/24 20:42	1
Chloroethane	ND		0.50	0.10	ug/L			09/27/24 20:42	1
Chloroform	ND		0.50	0.090	ug/L			09/27/24 20:42	1
Chloromethane	ND		0.50	0.10	ug/L			09/27/24 20:42	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			09/27/24 20:42	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/27/24 20:42	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/27/24 20:42	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/27/24 20:42	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/27/24 20:42	1
Methylene Chloride	ND		0.50	0.20	ug/L			09/27/24 20:42	1
Styrene	ND		0.50	0.070	ug/L			09/27/24 20:42	1
Tetrachloroethene	ND		0.50	0.20	ug/L			09/27/24 20:42	1
Toluene	ND		0.50	0.080	ug/L			09/27/24 20:42	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 20:42	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/27/24 20:42	1
Trichloroethene	ND		0.50	0.080	ug/L			09/27/24 20:42	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/27/24 20:42	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/27/24 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*09/27/24 20:42*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/27/24 20:42*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/27/24 20:42*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/27/24 20:42*	*1*

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

Lab Sample ID: 410-189680-2

Date Collected: 09/23/24 12:35

Matrix: Water

Date Received: 09/25/24 14:38

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			09/27/24 21:03	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 21:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/27/24 21:03	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 21:03	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/27/24 21:03	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 21:03	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/27/24 21:03	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/27/24 21:03	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/27/24 21:03	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/27/24 21:03	1
2-Hexanone	ND		5.0	2.0	ug/L			09/27/24 21:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/27/24 21:03	1
Acetone	ND		5.0	1.5	ug/L			09/27/24 21:03	1
Benzene	ND		0.50	0.10	ug/L			09/27/24 21:03	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/27/24 21:03	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/27/24 21:03	1
Bromoform	ND		1.0	0.30	ug/L			09/27/24 21:03	1
Bromomethane	ND		0.50	0.10	ug/L			09/27/24 21:03	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/27/24 21:03	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/27/24 21:03	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/27/24 21:03	1
Chloroethane	ND		0.50	0.10	ug/L			09/27/24 21:03	1
Chloroform	ND		0.50	0.090	ug/L			09/27/24 21:03	1
Chloromethane	ND		0.50	0.10	ug/L			09/27/24 21:03	1
cis-1,2-Dichloroethene	**0.10**	**J**	0.50	0.080	ug/L			09/27/24 21:03	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/27/24 21:03	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/27/24 21:03	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/27/24 21:03	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/27/24 21:03	1
Methylene Chloride	ND		0.50	0.20	ug/L			09/27/24 21:03	1
Styrene	ND		0.50	0.070	ug/L			09/27/24 21:03	1
Tetrachloroethene	ND		0.50	0.20	ug/L			09/27/24 21:03	1
Toluene	ND		0.50	0.080	ug/L			09/27/24 21:03	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 21:03	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/27/24 21:03	1
Trichloroethene	**0.18**	**J**	0.50	0.080	ug/L			09/27/24 21:03	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/27/24 21:03	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/27/24 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*09/27/24 21:03*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/27/24 21:03*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*09/27/24 21:03*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/24 21:03*	*1*

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

Lab Sample ID: 410-189680-3

Date Collected: 09/23/24 10:40

Matrix: Water

Date Received: 09/25/24 14:38

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			09/27/24 21:24	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 21:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/27/24 21:24	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 21:24	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/27/24 21:24	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 21:24	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/27/24 21:24	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/27/24 21:24	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/27/24 21:24	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/27/24 21:24	1
2-Hexanone	ND		5.0	2.0	ug/L			09/27/24 21:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/27/24 21:24	1
Acetone	ND		5.0	1.5	ug/L			09/27/24 21:24	1
Benzene	ND		0.50	0.10	ug/L			09/27/24 21:24	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/27/24 21:24	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/27/24 21:24	1
Bromoform	ND		1.0	0.30	ug/L			09/27/24 21:24	1
Bromomethane	ND		0.50	0.10	ug/L			09/27/24 21:24	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/27/24 21:24	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/27/24 21:24	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/27/24 21:24	1
Chloroethane	ND		0.50	0.10	ug/L			09/27/24 21:24	1
Chloroform	ND		0.50	0.090	ug/L			09/27/24 21:24	1
Chloromethane	ND		0.50	0.10	ug/L			09/27/24 21:24	1
cis-1,2-Dichloroethene	**0.10**	**J**	0.50	0.080	ug/L			09/27/24 21:24	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/27/24 21:24	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/27/24 21:24	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/27/24 21:24	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/27/24 21:24	1
Methylene Chloride	ND		0.50	0.20	ug/L			09/27/24 21:24	1
Styrene	ND		0.50	0.070	ug/L			09/27/24 21:24	1
Tetrachloroethene	**0.68**		0.50	0.20	ug/L			09/27/24 21:24	1
Toluene	ND		0.50	0.080	ug/L			09/27/24 21:24	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 21:24	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/27/24 21:24	1
Trichloroethene	**0.15**	**J**	0.50	0.080	ug/L			09/27/24 21:24	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/27/24 21:24	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/27/24 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/27/24 21:24*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/27/24 21:24*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/27/24 21:24*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/27/24 21:24*	*1*

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

Lab Sample ID: 410-189680-4

Date Collected: 09/23/24 14:15

Matrix: Water

Date Received: 09/25/24 14:38

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			09/27/24 21:45	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 21:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/27/24 21:45	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 21:45	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/27/24 21:45	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 21:45	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/27/24 21:45	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/27/24 21:45	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/27/24 21:45	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/27/24 21:45	1
2-Hexanone	ND		5.0	2.0	ug/L			09/27/24 21:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/27/24 21:45	1
Acetone	ND		5.0	1.5	ug/L			09/27/24 21:45	1
Benzene	ND		0.50	0.10	ug/L			09/27/24 21:45	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/27/24 21:45	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/27/24 21:45	1
Bromoform	ND		1.0	0.30	ug/L			09/27/24 21:45	1
Bromomethane	ND		0.50	0.10	ug/L			09/27/24 21:45	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/27/24 21:45	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/27/24 21:45	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/27/24 21:45	1
Chloroethane	ND		0.50	0.10	ug/L			09/27/24 21:45	1
Chloroform	**0.10**	**J**	0.50	0.090	ug/L			09/27/24 21:45	1
Chloromethane	ND		0.50	0.10	ug/L			09/27/24 21:45	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			09/27/24 21:45	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/27/24 21:45	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/27/24 21:45	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/27/24 21:45	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/27/24 21:45	1
Methylene Chloride	ND		0.50	0.20	ug/L			09/27/24 21:45	1
Styrene	ND		0.50	0.070	ug/L			09/27/24 21:45	1
Tetrachloroethene	**0.21**	**J**	0.50	0.20	ug/L			09/27/24 21:45	1
Toluene	ND		0.50	0.080	ug/L			09/27/24 21:45	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 21:45	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/27/24 21:45	1
Trichloroethene	ND		0.50	0.080	ug/L			09/27/24 21:45	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/27/24 21:45	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/27/24 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*09/27/24 21:45*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/27/24 21:45*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/27/24 21:45*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/27/24 21:45*	*1*

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

Lab Sample ID: 410-189680-5

Date Collected: 09/23/24 10:58

Matrix: Water

Date Received: 09/25/24 14:38

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			09/27/24 22:05	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 22:05	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/27/24 22:05	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 22:05	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/27/24 22:05	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 22:05	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/27/24 22:05	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/27/24 22:05	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/27/24 22:05	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/27/24 22:05	1
2-Hexanone	ND		5.0	2.0	ug/L			09/27/24 22:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/27/24 22:05	1
Acetone	ND		5.0	1.5	ug/L			09/27/24 22:05	1
Benzene	ND		0.50	0.10	ug/L			09/27/24 22:05	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/27/24 22:05	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/27/24 22:05	1
Bromoform	ND		1.0	0.30	ug/L			09/27/24 22:05	1
Bromomethane	ND		0.50	0.10	ug/L			09/27/24 22:05	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/27/24 22:05	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/27/24 22:05	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/27/24 22:05	1
Chloroethane	ND		0.50	0.10	ug/L			09/27/24 22:05	1
Chloroform	ND		0.50	0.090	ug/L			09/27/24 22:05	1
Chloromethane	ND		0.50	0.10	ug/L			09/27/24 22:05	1
cis-1,2-Dichloroethene	**0.11**	**J**	0.50	0.080	ug/L			09/27/24 22:05	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/27/24 22:05	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/27/24 22:05	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/27/24 22:05	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/27/24 22:05	1
Methylene Chloride	ND		0.50	0.20	ug/L			09/27/24 22:05	1
Styrene	ND		0.50	0.070	ug/L			09/27/24 22:05	1
Tetrachloroethene	**1.1**		0.50	0.20	ug/L			09/27/24 22:05	1
Toluene	ND		0.50	0.080	ug/L			09/27/24 22:05	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 22:05	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/27/24 22:05	1
Trichloroethene	**0.18**	**J**	0.50	0.080	ug/L			09/27/24 22:05	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/27/24 22:05	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/27/24 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*09/27/24 22:05*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*09/27/24 22:05*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*09/27/24 22:05*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/24 22:05*	*1*

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

Lab Sample ID: 410-189680-6

Date Collected: 09/23/24 13:00

Matrix: Water

Date Received: 09/25/24 14:38

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			09/27/24 22:26	1
1,1,1-Trichloroethane	**0.20**	**J**	0.50	0.080	ug/L			09/27/24 22:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/27/24 22:26	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 22:26	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/27/24 22:26	1
1,1-Dichloroethene	**0.12**	**J**	0.50	0.10	ug/L			09/27/24 22:26	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/27/24 22:26	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/27/24 22:26	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/27/24 22:26	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/27/24 22:26	1
2-Hexanone	ND		5.0	2.0	ug/L			09/27/24 22:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/27/24 22:26	1
Acetone	ND		5.0	1.5	ug/L			09/27/24 22:26	1
Benzene	ND		0.50	0.10	ug/L			09/27/24 22:26	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/27/24 22:26	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/27/24 22:26	1
Bromoform	ND		1.0	0.30	ug/L			09/27/24 22:26	1
Bromomethane	ND		0.50	0.10	ug/L			09/27/24 22:26	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/27/24 22:26	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/27/24 22:26	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/27/24 22:26	1
Chloroethane	ND		0.50	0.10	ug/L			09/27/24 22:26	1
Chloroform	**0.17**	**J**	0.50	0.090	ug/L			09/27/24 22:26	1
Chloromethane	ND		0.50	0.10	ug/L			09/27/24 22:26	1
cis-1,2-Dichloroethene	**0.64**		0.50	0.080	ug/L			09/27/24 22:26	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/27/24 22:26	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/27/24 22:26	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/27/24 22:26	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/27/24 22:26	1
Methylene Chloride	ND		0.50	0.20	ug/L			09/27/24 22:26	1
Styrene	ND		0.50	0.070	ug/L			09/27/24 22:26	1
Tetrachloroethene	**3.9**		0.50	0.20	ug/L			09/27/24 22:26	1
Toluene	ND		0.50	0.080	ug/L			09/27/24 22:26	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 22:26	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/27/24 22:26	1
Trichloroethene	**0.87**		0.50	0.080	ug/L			09/27/24 22:26	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/27/24 22:26	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/27/24 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*09/27/24 22:26*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*09/27/24 22:26*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*09/27/24 22:26*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/24 22:26*	*1*

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

Lab Sample ID: 410-189680-7

Date Collected: 09/23/24 11:20

Matrix: Water

Date Received: 09/25/24 14:38

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			09/27/24 23:29	1
1,1,1-Trichloroethane	**0.12**	**J**	0.50	0.080	ug/L			09/27/24 23:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/27/24 23:29	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 23:29	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/27/24 23:29	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 23:29	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/27/24 23:29	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/27/24 23:29	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/27/24 23:29	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/27/24 23:29	1
2-Hexanone	ND		5.0	2.0	ug/L			09/27/24 23:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/27/24 23:29	1
Acetone	ND		5.0	1.5	ug/L			09/27/24 23:29	1
Benzene	ND		0.50	0.10	ug/L			09/27/24 23:29	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/27/24 23:29	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/27/24 23:29	1
Bromoform	ND		1.0	0.30	ug/L			09/27/24 23:29	1
Bromomethane	ND		0.50	0.10	ug/L			09/27/24 23:29	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/27/24 23:29	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/27/24 23:29	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/27/24 23:29	1
Chloroethane	ND		0.50	0.10	ug/L			09/27/24 23:29	1
Chloroform	ND		0.50	0.090	ug/L			09/27/24 23:29	1
Chloromethane	ND		0.50	0.10	ug/L			09/27/24 23:29	1
cis-1,2-Dichloroethene	**0.13**	**J**	0.50	0.080	ug/L			09/27/24 23:29	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/27/24 23:29	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/27/24 23:29	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/27/24 23:29	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/27/24 23:29	1
Methylene Chloride	ND		0.50	0.20	ug/L			09/27/24 23:29	1
Styrene	ND		0.50	0.070	ug/L			09/27/24 23:29	1
Tetrachloroethene	**1.8**		0.50	0.20	ug/L			09/27/24 23:29	1
Toluene	ND		0.50	0.080	ug/L			09/27/24 23:29	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 23:29	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/27/24 23:29	1
Trichloroethene	**0.19**	**J**	0.50	0.080	ug/L			09/27/24 23:29	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/27/24 23:29	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/27/24 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/27/24 23:29*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/27/24 23:29*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/27/24 23:29*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/24 23:29*	*1*

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

Lab Sample ID: 410-189680-8

Date Collected: 09/23/24 11:30

Matrix: Water

Date Received: 09/25/24 14:38

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			09/28/24 01:13	1
1,1,1-Trichloroethane	**1.3**		0.50	0.080	ug/L			09/28/24 01:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/28/24 01:13	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/28/24 01:13	1
1,1-Dichloroethane	**0.19**	**J**	0.50	0.10	ug/L			09/28/24 01:13	1
1,1-Dichloroethene	**0.11**	**J**	0.50	0.10	ug/L			09/28/24 01:13	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/28/24 01:13	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/28/24 01:13	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/28/24 01:13	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/28/24 01:13	1
2-Hexanone	ND		5.0	2.0	ug/L			09/28/24 01:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/28/24 01:13	1
Acetone	ND		5.0	1.5	ug/L			09/28/24 01:13	1
Benzene	ND		0.50	0.10	ug/L			09/28/24 01:13	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/28/24 01:13	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/28/24 01:13	1
Bromoform	ND		1.0	0.30	ug/L			09/28/24 01:13	1
Bromomethane	ND		0.50	0.10	ug/L			09/28/24 01:13	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/28/24 01:13	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/28/24 01:13	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/28/24 01:13	1
Chloroethane	ND		0.50	0.10	ug/L			09/28/24 01:13	1
Chloroform	ND		0.50	0.090	ug/L			09/28/24 01:13	1
Chloromethane	ND		0.50	0.10	ug/L			09/28/24 01:13	1
cis-1,2-Dichloroethene	**0.47**	**J**	0.50	0.080	ug/L			09/28/24 01:13	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/28/24 01:13	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/28/24 01:13	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/28/24 01:13	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/28/24 01:13	1
Methylene Chloride	ND		0.50	0.20	ug/L			09/28/24 01:13	1
Styrene	ND		0.50	0.070	ug/L			09/28/24 01:13	1
Tetrachloroethene	**21**		0.50	0.20	ug/L			09/28/24 01:13	1
Toluene	ND		0.50	0.080	ug/L			09/28/24 01:13	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/28/24 01:13	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/28/24 01:13	1
Trichloroethene	**0.81**		0.50	0.080	ug/L			09/28/24 01:13	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/28/24 01:13	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/28/24 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*09/28/24 01:13*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*09/28/24 01:13*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/28/24 01:13*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/28/24 01:13*	*1*

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

Lab Sample ID: 410-189680-9

Date Collected: 09/23/24 12:15

Matrix: Water

Date Received: 09/25/24 14:38

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			09/27/24 23:49	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 23:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/27/24 23:49	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 23:49	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/27/24 23:49	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 23:49	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/27/24 23:49	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/27/24 23:49	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/27/24 23:49	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/27/24 23:49	1
2-Hexanone	ND		5.0	2.0	ug/L			09/27/24 23:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/27/24 23:49	1
Acetone	ND		5.0	1.5	ug/L			09/27/24 23:49	1
Benzene	ND		0.50	0.10	ug/L			09/27/24 23:49	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/27/24 23:49	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/27/24 23:49	1
Bromoform	ND		1.0	0.30	ug/L			09/27/24 23:49	1
Bromomethane	ND		0.50	0.10	ug/L			09/27/24 23:49	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/27/24 23:49	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/27/24 23:49	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/27/24 23:49	1
Chloroethane	ND		0.50	0.10	ug/L			09/27/24 23:49	1
Chloroform	**0.63**		0.50	0.090	ug/L			09/27/24 23:49	1
Chloromethane	ND		0.50	0.10	ug/L			09/27/24 23:49	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			09/27/24 23:49	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/27/24 23:49	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/27/24 23:49	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/27/24 23:49	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/27/24 23:49	1
Methylene Chloride	ND		0.50	0.20	ug/L			09/27/24 23:49	1
Styrene	ND		0.50	0.070	ug/L			09/27/24 23:49	1
Tetrachloroethene	**3.4**		0.50	0.20	ug/L			09/27/24 23:49	1
Toluene	ND		0.50	0.080	ug/L			09/27/24 23:49	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 23:49	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/27/24 23:49	1
Trichloroethene	**0.13**	**J**	0.50	0.080	ug/L			09/27/24 23:49	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/27/24 23:49	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/27/24 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/27/24 23:49*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*09/27/24 23:49*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*09/27/24 23:49*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/24 23:49*	*1*

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

Lab Sample ID: 410-189680-10

Date Collected: 09/23/24 12:47

Matrix: Water

Date Received: 09/25/24 14:38

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			09/28/24 00:10	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			09/28/24 00:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/28/24 00:10	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/28/24 00:10	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/28/24 00:10	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/28/24 00:10	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/28/24 00:10	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/28/24 00:10	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/28/24 00:10	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/28/24 00:10	1
2-Hexanone	ND		5.0	2.0	ug/L			09/28/24 00:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/28/24 00:10	1
Acetone	ND		5.0	1.5	ug/L			09/28/24 00:10	1
Benzene	ND		0.50	0.10	ug/L			09/28/24 00:10	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/28/24 00:10	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/28/24 00:10	1
Bromoform	ND		1.0	0.30	ug/L			09/28/24 00:10	1
Bromomethane	ND		0.50	0.10	ug/L			09/28/24 00:10	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/28/24 00:10	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/28/24 00:10	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/28/24 00:10	1
Chloroethane	ND		0.50	0.10	ug/L			09/28/24 00:10	1
Chloroform	**0.15**	**J**	0.50	0.090	ug/L			09/28/24 00:10	1
Chloromethane	ND		0.50	0.10	ug/L			09/28/24 00:10	1
cis-1,2-Dichloroethene	**0.094**	**J**	0.50	0.080	ug/L			09/28/24 00:10	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/28/24 00:10	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/28/24 00:10	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/28/24 00:10	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/28/24 00:10	1
Methylene Chloride	ND		0.50	0.20	ug/L			09/28/24 00:10	1
Styrene	ND		0.50	0.070	ug/L			09/28/24 00:10	1
Tetrachloroethene	**0.20**	**J**	0.50	0.20	ug/L			09/28/24 00:10	1
Toluene	ND		0.50	0.080	ug/L			09/28/24 00:10	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/28/24 00:10	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/28/24 00:10	1
Trichloroethene	**0.15**	**J**	0.50	0.080	ug/L			09/28/24 00:10	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/28/24 00:10	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/28/24 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*09/28/24 00:10*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/28/24 00:10*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*09/28/24 00:10*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/28/24 00:10*	*1*

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

Lab Sample ID: 410-189680-11

Date Collected: 09/23/24 14:30

Matrix: Water

Date Received: 09/25/24 14:38

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			09/28/24 00:31	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			09/28/24 00:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/28/24 00:31	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/28/24 00:31	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/28/24 00:31	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/28/24 00:31	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/28/24 00:31	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/28/24 00:31	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/28/24 00:31	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/28/24 00:31	1
2-Hexanone	ND		5.0	2.0	ug/L			09/28/24 00:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/28/24 00:31	1
Acetone	ND		5.0	1.5	ug/L			09/28/24 00:31	1
Benzene	ND		0.50	0.10	ug/L			09/28/24 00:31	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/28/24 00:31	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/28/24 00:31	1
Bromoform	ND		1.0	0.30	ug/L			09/28/24 00:31	1
Bromomethane	ND		0.50	0.10	ug/L			09/28/24 00:31	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/28/24 00:31	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/28/24 00:31	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/28/24 00:31	1
Chloroethane	ND		0.50	0.10	ug/L			09/28/24 00:31	1
Chloroform	**0.12**	**J**	0.50	0.090	ug/L			09/28/24 00:31	1
Chloromethane	ND		0.50	0.10	ug/L			09/28/24 00:31	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			09/28/24 00:31	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/28/24 00:31	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/28/24 00:31	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/28/24 00:31	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/28/24 00:31	1
Methylene Chloride	ND		0.50	0.20	ug/L			09/28/24 00:31	1
Styrene	ND		0.50	0.070	ug/L			09/28/24 00:31	1
Tetrachloroethene	ND		0.50	0.20	ug/L			09/28/24 00:31	1
Toluene	ND		0.50	0.080	ug/L			09/28/24 00:31	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/28/24 00:31	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/28/24 00:31	1
Trichloroethene	**0.084**	**J**	0.50	0.080	ug/L			09/28/24 00:31	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/28/24 00:31	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/28/24 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*09/28/24 00:31*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*09/28/24 00:31*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/28/24 00:31*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/28/24 00:31*	*1*

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

Lab Sample ID: 410-189680-12

Date Collected: 09/23/24 10:25

Matrix: Water

Date Received: 09/25/24 14:38

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			09/28/24 00:52	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			09/28/24 00:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/28/24 00:52	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/28/24 00:52	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/28/24 00:52	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/28/24 00:52	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/28/24 00:52	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/28/24 00:52	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/28/24 00:52	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/28/24 00:52	1
2-Hexanone	ND		5.0	2.0	ug/L			09/28/24 00:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/28/24 00:52	1
Acetone	ND		5.0	1.5	ug/L			09/28/24 00:52	1
Benzene	ND		0.50	0.10	ug/L			09/28/24 00:52	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/28/24 00:52	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/28/24 00:52	1
Bromoform	ND		1.0	0.30	ug/L			09/28/24 00:52	1
Bromomethane	ND		0.50	0.10	ug/L			09/28/24 00:52	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/28/24 00:52	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/28/24 00:52	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/28/24 00:52	1
Chloroethane	ND		0.50	0.10	ug/L			09/28/24 00:52	1
Chloroform	ND		0.50	0.090	ug/L			09/28/24 00:52	1
Chloromethane	ND		0.50	0.10	ug/L			09/28/24 00:52	1
cis-1,2-Dichloroethene	**0.086**	**J**	0.50	0.080	ug/L			09/28/24 00:52	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/28/24 00:52	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/28/24 00:52	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/28/24 00:52	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/28/24 00:52	1
Methylene Chloride	ND		0.50	0.20	ug/L			09/28/24 00:52	1
Styrene	ND		0.50	0.070	ug/L			09/28/24 00:52	1
Tetrachloroethene	**0.36**	**J**	0.50	0.20	ug/L			09/28/24 00:52	1
Toluene	ND		0.50	0.080	ug/L			09/28/24 00:52	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/28/24 00:52	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/28/24 00:52	1
Trichloroethene	**0.13**	**J**	0.50	0.080	ug/L			09/28/24 00:52	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/28/24 00:52	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/28/24 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/28/24 00:52*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*09/28/24 00:52*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*09/28/24 00:52*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/28/24 00:52*	*1*

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

Lab Sample ID: 410-189680-13

Date Collected: 09/23/24 12:00

Matrix: Water

Date Received: 09/25/24 14:38

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			09/28/24 01:54	1
1,1,1-Trichloroethane	**1.4**		0.50	0.080	ug/L			09/28/24 01:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/28/24 01:54	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/28/24 01:54	1
1,1-Dichloroethane	**0.23**	**J**	0.50	0.10	ug/L			09/28/24 01:54	1
1,1-Dichloroethene	**0.11**	**J**	0.50	0.10	ug/L			09/28/24 01:54	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/28/24 01:54	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/28/24 01:54	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/28/24 01:54	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/28/24 01:54	1
2-Hexanone	ND		5.0	2.0	ug/L			09/28/24 01:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/28/24 01:54	1
Acetone	ND		5.0	1.5	ug/L			09/28/24 01:54	1
Benzene	ND		0.50	0.10	ug/L			09/28/24 01:54	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/28/24 01:54	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/28/24 01:54	1
Bromoform	ND		1.0	0.30	ug/L			09/28/24 01:54	1
Bromomethane	ND		0.50	0.10	ug/L			09/28/24 01:54	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/28/24 01:54	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/28/24 01:54	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/28/24 01:54	1
Chloroethane	ND		0.50	0.10	ug/L			09/28/24 01:54	1
Chloroform	ND		0.50	0.090	ug/L			09/28/24 01:54	1
Chloromethane	ND		0.50	0.10	ug/L			09/28/24 01:54	1
cis-1,2-Dichloroethene	**0.47**	**J**	0.50	0.080	ug/L			09/28/24 01:54	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/28/24 01:54	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/28/24 01:54	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/28/24 01:54	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/28/24 01:54	1
Methylene Chloride	ND		0.50	0.20	ug/L			09/28/24 01:54	1
Styrene	ND		0.50	0.070	ug/L			09/28/24 01:54	1
Tetrachloroethene	**22**		0.50	0.20	ug/L			09/28/24 01:54	1
Toluene	ND		0.50	0.080	ug/L			09/28/24 01:54	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/28/24 01:54	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/28/24 01:54	1
Trichloroethene	**0.89**		0.50	0.080	ug/L			09/28/24 01:54	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/28/24 01:54	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/28/24 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*09/28/24 01:54*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*09/28/24 01:54*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*09/28/24 01:54*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/28/24 01:54*	*1*

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

Lab Sample ID: 410-189680-14

Date Collected: 09/23/24 00:00

Matrix: Water

Date Received: 09/25/24 14:38

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			09/27/24 20:21	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 20:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/27/24 20:21	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 20:21	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/27/24 20:21	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 20:21	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/27/24 20:21	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/27/24 20:21	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/27/24 20:21	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/27/24 20:21	1
2-Hexanone	ND		5.0	2.0	ug/L			09/27/24 20:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/27/24 20:21	1
Acetone	ND		5.0	1.5	ug/L			09/27/24 20:21	1
Benzene	ND		0.50	0.10	ug/L			09/27/24 20:21	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/27/24 20:21	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/27/24 20:21	1
Bromoform	ND		1.0	0.30	ug/L			09/27/24 20:21	1
Bromomethane	ND		0.50	0.10	ug/L			09/27/24 20:21	1
Carbon disulfide	**0.16**	**J**	1.0	0.10	ug/L			09/27/24 20:21	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/27/24 20:21	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/27/24 20:21	1
Chloroethane	ND		0.50	0.10	ug/L			09/27/24 20:21	1
Chloroform	ND		0.50	0.090	ug/L			09/27/24 20:21	1
Chloromethane	ND		0.50	0.10	ug/L			09/27/24 20:21	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			09/27/24 20:21	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/27/24 20:21	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/27/24 20:21	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/27/24 20:21	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/27/24 20:21	1
Methylene Chloride	ND		0.50	0.20	ug/L			09/27/24 20:21	1
Styrene	ND		0.50	0.070	ug/L			09/27/24 20:21	1
Tetrachloroethene	ND		0.50	0.20	ug/L			09/27/24 20:21	1
Toluene	ND		0.50	0.080	ug/L			09/27/24 20:21	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 20:21	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/27/24 20:21	1
Trichloroethene	ND		0.50	0.080	ug/L			09/27/24 20:21	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/27/24 20:21	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/27/24 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*09/27/24 20:21*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*09/27/24 20:21*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*09/27/24 20:21*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/24 20:21*	*1*

Default Detection Limits

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

Job ID: 410-189680-1

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

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

Surrogate Summary

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

Job ID: 410-189680-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-189680-1	HD-COD-SW-6-0/1-0	93	97	100	99
410-189680-2	HD-COD-SW-7-0/1-0	99	97	104	100
410-189680-3	HD-COD-SW-8-0/1-0	96	97	103	101
410-189680-4	HD-COD-SW-9-0/1-0	94	97	103	101
410-189680-5	HD-COD-SW-13-0/1-0	94	95	104	100
410-189680-6	HD-COD-SW-15-0/1-0	99	93	104	100
410-189680-6 MS	HD-COD-SW-15-0/1-0 MS	93	99	102	101
410-189680-6 MSD	HD-COD-SW-15-0/1-0 MSD	98	99	103	100
410-189680-7	HD-COD-SW-16-0/1-0	96	97	103	100
410-189680-8	HD-COD-SW-17-0/1-0	101	95	103	99
410-189680-9	HD-COD-SW-26-0/1-0	98	95	104	100
410-189680-10	HD-COD-SW-27-0/1-0	97	97	101	102
410-189680-11	HD-COD-SW-28-0/1-0	101	93	103	100
410-189680-12	HD-COD-SW-29-0/1-0	96	95	102	101
410-189680-13	HD-QC1-0/1-1	97	94	102	100
410-189680-14	HD-QC1-0/1-2	100	95	104	100
LCS 410-556727/4	Lab Control Sample	95	98	101	101
MB 410-556727/6	Method Blank	94	95	102	100

Surrogate Legend

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

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

Lab Sample ID: MB 410-556727/6
Matrix: Water
Analysis Batch: 556727

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			09/27/24 20:01	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 20:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/27/24 20:01	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/27/24 20:01	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/27/24 20:01	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 20:01	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/27/24 20:01	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/27/24 20:01	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/27/24 20:01	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/27/24 20:01	1
2-Hexanone	ND		5.0	2.0	ug/L			09/27/24 20:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/27/24 20:01	1
Acetone	ND		5.0	1.5	ug/L			09/27/24 20:01	1
Benzene	ND		0.50	0.10	ug/L			09/27/24 20:01	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/27/24 20:01	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/27/24 20:01	1
Bromoform	ND		1.0	0.30	ug/L			09/27/24 20:01	1
Bromomethane	ND		0.50	0.10	ug/L			09/27/24 20:01	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/27/24 20:01	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/27/24 20:01	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/27/24 20:01	1
Chloroethane	ND		0.50	0.10	ug/L			09/27/24 20:01	1
Chloroform	ND		0.50	0.090	ug/L			09/27/24 20:01	1
Chloromethane	ND		0.50	0.10	ug/L			09/27/24 20:01	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			09/27/24 20:01	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/27/24 20:01	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/27/24 20:01	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/27/24 20:01	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/27/24 20:01	1
Methylene Chloride	ND		0.50	0.20	ug/L			09/27/24 20:01	1
Styrene	ND		0.50	0.070	ug/L			09/27/24 20:01	1
Tetrachloroethene	ND		0.50	0.20	ug/L			09/27/24 20:01	1
Toluene	ND		0.50	0.080	ug/L			09/27/24 20:01	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/27/24 20:01	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/27/24 20:01	1
Trichloroethene	ND		0.50	0.080	ug/L			09/27/24 20:01	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/27/24 20:01	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/27/24 20:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*09/27/24 20:01*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*09/27/24 20:01*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*09/27/24 20:01*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/24 20:01*	*1*

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

Lab Sample ID: LCS 410-556727/4
Matrix: Water
Analysis Batch: 556727

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	4.88		ug/L		98	80 - 122
1,1,1-Trichloroethane	5.00	5.30		ug/L		106	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.18		ug/L		84	75 - 123
1,1,2-Trichloroethane	5.00	4.44		ug/L		89	80 - 120
1,1-Dichloroethane	5.00	5.16		ug/L		103	74 - 120
1,1-Dichloroethene	5.00	5.20		ug/L		104	80 - 131
1,2-Dibromoethane (EDB)	5.00	4.46		ug/L		89	80 - 120
1,2-Dichloroethane	5.00	4.64		ug/L		93	69 - 122
1,2-Dichloropropane	5.00	4.88		ug/L		98	80 - 120
2-Butanone (MEK)	62.5	57.8		ug/L		93	59 - 141
2-Hexanone	62.5	55.2		ug/L		88	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	54.4		ug/L		87	55 - 140
Acetone	62.5	51.6		ug/L		83	60 - 146
Benzene	5.00	4.89		ug/L		98	80 - 120
Bromochloromethane	5.00	4.85		ug/L		97	80 - 133
Bromodichloromethane	5.00	4.87		ug/L		97	80 - 123
Bromoform	5.00	4.41		ug/L		88	75 - 126
Bromomethane	5.00	4.43		ug/L		89	63 - 120
Carbon disulfide	5.00	5.00		ug/L		100	67 - 130
Carbon tetrachloride	5.00	5.44		ug/L		109	64 - 141
Chlorobenzene	5.00	4.79		ug/L		96	80 - 120
Chloroethane	5.00	4.75		ug/L		95	63 - 120
Chloroform	5.00	4.95		ug/L		99	80 - 120
Chloromethane	5.00	3.89		ug/L		78	56 - 124
cis-1,2-Dichloroethene	5.00	4.95		ug/L		99	80 - 122
cis-1,3-Dichloropropene	5.00	4.55		ug/L		91	67 - 121
Dibromochloromethane	5.00	4.70		ug/L		94	80 - 123
Ethylbenzene	5.00	4.70		ug/L		94	80 - 120
Methyl tert-butyl ether	5.00	4.29		ug/L		86	69 - 120
Methylene Chloride	5.00	4.48		ug/L		90	80 - 120
Styrene	5.00	4.95		ug/L		99	80 - 120
Tetrachloroethene	5.00	4.90		ug/L		98	80 - 120
Toluene	5.00	4.84		ug/L		97	80 - 120
trans-1,2-Dichloroethene	5.00	5.03		ug/L		101	80 - 122
trans-1,3-Dichloropropene	5.00	4.52		ug/L		90	61 - 129
Trichloroethene	5.00	4.85		ug/L		97	80 - 120
Vinyl chloride	5.00	4.26		ug/L		85	60 - 125
Xylenes, Total	15.0	15.1		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

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

Lab Sample ID: 410-189680-6 MS
Matrix: Water
Analysis Batch: 556727

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	5.17		ug/L		103	80 - 122
1,1,1-Trichloroethane	0.20	J	5.00	6.16		ug/L		119	78 - 126
1,1,2,2-Tetrachloroethane	ND		5.00	4.37		ug/L		87	75 - 123
1,1,2-Trichloroethane	ND		5.00	4.55		ug/L		91	80 - 120
1,1-Dichloroethane	ND		5.00	5.61		ug/L		112	74 - 120
1,1-Dichloroethene	0.12	J	5.00	6.17		ug/L		121	80 - 131
1,2-Dibromoethane (EDB)	ND		5.00	4.62		ug/L		92	80 - 120
1,2-Dichloroethane	ND		5.00	4.93		ug/L		98	69 - 122
1,2-Dichloropropane	ND		5.00	5.25		ug/L		105	80 - 120
2-Butanone (MEK)	ND		62.6	53.0		ug/L		85	59 - 141
2-Hexanone	ND		62.6	51.2		ug/L		82	52 - 140
4-Methyl-2-pentanone (MIBK)	ND		62.6	51.5		ug/L		82	55 - 140
Acetone	ND		62.6	49.1		ug/L		78	60 - 146
Benzene	ND		5.00	5.36		ug/L		107	80 - 120
Bromochloromethane	ND		5.00	5.20		ug/L		104	80 - 133
Bromodichloromethane	ND		5.00	5.18		ug/L		104	80 - 123
Bromoform	ND		5.00	4.65		ug/L		93	75 - 126
Bromomethane	ND		5.00	5.21		ug/L		104	63 - 120
Carbon disulfide	ND		5.00	5.70		ug/L		114	67 - 130
Carbon tetrachloride	ND		5.00	6.24		ug/L		125	64 - 141
Chlorobenzene	ND		5.00	5.20		ug/L		104	80 - 120
Chloroethane	ND		5.00	5.57		ug/L		111	63 - 120
Chloroform	0.17	J	5.00	5.56		ug/L		108	80 - 120
Chloromethane	ND		5.00	4.71		ug/L		94	80 - 120
cis-1,2-Dichloroethene	0.64		5.00	6.19		ug/L		111	80 - 122
cis-1,3-Dichloropropene	ND		5.00	4.74		ug/L		95	67 - 121
Dibromochloromethane	ND		5.00	4.95		ug/L		99	80 - 123
Ethylbenzene	ND		5.00	5.17		ug/L		103	80 - 120
Methyl tert-butyl ether	ND		5.00	4.63		ug/L		92	69 - 120
Methylene Chloride	ND		5.00	5.00		ug/L		100	80 - 120
Styrene	ND		5.00	5.35		ug/L		107	80 - 120
Tetrachloroethene	3.9		5.00	9.51		ug/L		112	80 - 120
Toluene	ND		5.00	5.16		ug/L		103	80 - 120
trans-1,2-Dichloroethene	ND		5.00	5.68		ug/L		114	80 - 122
trans-1,3-Dichloropropene	ND		5.00	4.76		ug/L		95	61 - 129
Trichloroethene	0.87		5.00	6.12		ug/L		105	80 - 120
Vinyl chloride	ND		5.00	5.10		ug/L		102	60 - 125
Xylenes, Total	ND		15.0	16.2		ug/L		108	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

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

Lab Sample ID: 410-189680-6 MSD
Matrix: Water
Analysis Batch: 556727

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	5.05		ug/L		101	80 - 122	2	30
1,1,1-Trichloroethane	0.20	J	5.00	6.05		ug/L		117	78 - 126	2	30
1,1,2,2-Tetrachloroethane	ND		5.00	4.40		ug/L		88	75 - 123	1	30
1,1,2-Trichloroethane	ND		5.00	4.68		ug/L		93	80 - 120	3	30
1,1-Dichloroethane	ND		5.00	5.54		ug/L		111	74 - 120	1	30
1,1-Dichloroethene	0.12	J	5.00	6.23		ug/L		122	80 - 131	1	30
1,2-Dibromoethane (EDB)	ND		5.00	4.53		ug/L		90	80 - 120	2	30
1,2-Dichloroethane	ND		5.00	4.97		ug/L		99	69 - 122	1	30
1,2-Dichloropropane	ND		5.00	5.23		ug/L		105	80 - 120	0	30
2-Butanone (MEK)	ND		62.6	51.8		ug/L		83	59 - 141	2	30
2-Hexanone	ND		62.6	51.8		ug/L		83	52 - 140	1	30
4-Methyl-2-pentanone (MIBK)	ND		62.6	50.5		ug/L		81	55 - 140	2	30
Acetone	ND		62.6	48.4		ug/L		77	60 - 146	1	30
Benzene	ND		5.00	5.29		ug/L		106	80 - 120	1	30
Bromochloromethane	ND		5.00	5.32		ug/L		106	80 - 133	2	30
Bromodichloromethane	ND		5.00	5.18		ug/L		103	80 - 123	0	30
Bromoform	ND		5.00	4.66		ug/L		93	75 - 126	0	30
Bromomethane	ND		5.00	4.95		ug/L		99	63 - 120	5	30
Carbon disulfide	ND		5.00	5.60		ug/L		112	67 - 130	2	30
Carbon tetrachloride	ND		5.00	6.13		ug/L		123	64 - 141	2	30
Chlorobenzene	ND		5.00	5.13		ug/L		102	80 - 120	1	30
Chloroethane	ND		5.00	5.21		ug/L		104	63 - 120	7	30
Chloroform	0.17	J	5.00	5.36		ug/L		104	80 - 120	4	30
Chloromethane	ND		5.00	4.49		ug/L		90	80 - 120	5	30
cis-1,2-Dichloroethene	0.64		5.00	5.96		ug/L		106	80 - 122	4	30
cis-1,3-Dichloropropene	ND		5.00	4.81		ug/L		96	67 - 121	2	30
Dibromochloromethane	ND		5.00	4.89		ug/L		98	80 - 123	1	30
Ethylbenzene	ND		5.00	5.07		ug/L		101	80 - 120	2	30
Methyl tert-butyl ether	ND		5.00	4.60		ug/L		92	69 - 120	1	30
Methylene Chloride	ND		5.00	4.81		ug/L		96	80 - 120	4	30
Styrene	ND		5.00	5.20		ug/L		104	80 - 120	3	30
Tetrachloroethene	3.9		5.00	9.13		ug/L		105	80 - 120	4	30
Toluene	ND		5.00	5.10		ug/L		102	80 - 120	1	30
trans-1,2-Dichloroethene	ND		5.00	5.58		ug/L		111	80 - 122	2	30
trans-1,3-Dichloropropene	ND		5.00	4.73		ug/L		95	61 - 129	1	30
Trichloroethene	0.87		5.00	6.08		ug/L		104	80 - 120	1	30
Vinyl chloride	ND		5.00	5.11		ug/L		102	60 - 125	0	30
Xylenes, Total	ND		15.0	16.1		ug/L		107	80 - 120	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

GC/MS VOA

Analysis Batch: 556727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-189680-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-189680-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-189680-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
410-189680-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-189680-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-189680-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-189680-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
410-189680-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-189680-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-189680-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
410-189680-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-189680-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-189680-13	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-189680-14	HD-QC1-0/1-2	Total/NA	Water	8260D	
MB 410-556727/6	Method Blank	Total/NA	Water	8260D	
LCS 410-556727/4	Lab Control Sample	Total/NA	Water	8260D	
410-189680-6 MS	HD-COD-SW-15-0/1-0 MS	Total/NA	Water	8260D	
410-189680-6 MSD	HD-COD-SW-15-0/1-0 MSD	Total/NA	Water	8260D	

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

Lab Sample ID: 410-189680-1

Date Collected: 09/23/24 11:50

Matrix: Water

Date Received: 09/25/24 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	556727	JS6E	ELLE	09/27/24 20:42

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

Lab Sample ID: 410-189680-2

Date Collected: 09/23/24 12:35

Matrix: Water

Date Received: 09/25/24 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	556727	JS6E	ELLE	09/27/24 21:03

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

Lab Sample ID: 410-189680-3

Date Collected: 09/23/24 10:40

Matrix: Water

Date Received: 09/25/24 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	556727	JS6E	ELLE	09/27/24 21:24

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

Lab Sample ID: 410-189680-4

Date Collected: 09/23/24 14:15

Matrix: Water

Date Received: 09/25/24 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	556727	JS6E	ELLE	09/27/24 21:45

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

Lab Sample ID: 410-189680-5

Date Collected: 09/23/24 10:58

Matrix: Water

Date Received: 09/25/24 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	556727	JS6E	ELLE	09/27/24 22:05

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

Lab Sample ID: 410-189680-6

Date Collected: 09/23/24 13:00

Matrix: Water

Date Received: 09/25/24 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	556727	JS6E	ELLE	09/27/24 22:26

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

Lab Sample ID: 410-189680-7

Date Collected: 09/23/24 11:20

Matrix: Water

Date Received: 09/25/24 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	556727	JS6E	ELLE	09/27/24 23:29

Client Sample ID: HD-COD-SW-17-0/1-0
Lab Sample ID: 410-189680-8

Date Collected: 09/23/24 11:30
Matrix: Water
Date Received: 09/25/24 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	556727	JS6E	ELLE	09/28/24 01:13

Client Sample ID: HD-COD-SW-26-0/1-0
Lab Sample ID: 410-189680-9

Date Collected: 09/23/24 12:15
Matrix: Water
Date Received: 09/25/24 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	556727	JS6E	ELLE	09/27/24 23:49

Client Sample ID: HD-COD-SW-27-0/1-0
Lab Sample ID: 410-189680-10

Date Collected: 09/23/24 12:47
Matrix: Water
Date Received: 09/25/24 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	556727	JS6E	ELLE	09/28/24 00:10

Client Sample ID: HD-COD-SW-28-0/1-0
Lab Sample ID: 410-189680-11

Date Collected: 09/23/24 14:30
Matrix: Water
Date Received: 09/25/24 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	556727	JS6E	ELLE	09/28/24 00:31

Client Sample ID: HD-COD-SW-29-0/1-0
Lab Sample ID: 410-189680-12

Date Collected: 09/23/24 10:25
Matrix: Water
Date Received: 09/25/24 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	556727	JS6E	ELLE	09/28/24 00:52

Client Sample ID: HD-QC1-0/1-1
Lab Sample ID: 410-189680-13

Date Collected: 09/23/24 12:00
Matrix: Water
Date Received: 09/25/24 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	556727	JS6E	ELLE	09/28/24 01:54

Client Sample ID: HD-QC1-0/1-2
Lab Sample ID: 410-189680-14

Date Collected: 09/23/24 00:00
Matrix: Water
Date Received: 09/25/24 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	556727	JS6E	ELLE	09/27/24 20:21

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
Job ID: 410-189680-1
Project/Site: fYNOP Monthly Surface Water

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

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

Method Summary

Client: Groundwater Sciences Corporation
Job ID: 410-189680-1
Project/Site: fYNOP Monthly Surface Water

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: 410-189680-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-189680-1	HD-COD-SW-6-0/1-0	Water	09/23/24 11:50	09/25/24 14:38
410-189680-2	HD-COD-SW-7-0/1-0	Water	09/23/24 12:35	09/25/24 14:38
410-189680-3	HD-COD-SW-8-0/1-0	Water	09/23/24 10:40	09/25/24 14:38
410-189680-4	HD-COD-SW-9-0/1-0	Water	09/23/24 14:15	09/25/24 14:38
410-189680-5	HD-COD-SW-13-0/1-0	Water	09/23/24 10:58	09/25/24 14:38
410-189680-6	HD-COD-SW-15-0/1-0	Water	09/23/24 13:00	09/25/24 14:38
410-189680-7	HD-COD-SW-16-0/1-0	Water	09/23/24 11:20	09/25/24 14:38
410-189680-8	HD-COD-SW-17-0/1-0	Water	09/23/24 11:30	09/25/24 14:38
410-189680-9	HD-COD-SW-26-0/1-0	Water	09/23/24 12:15	09/25/24 14:38
410-189680-10	HD-COD-SW-27-0/1-0	Water	09/23/24 12:47	09/25/24 14:38
410-189680-11	HD-COD-SW-28-0/1-0	Water	09/23/24 14:30	09/25/24 14:38
410-189680-12	HD-COD-SW-29-0/1-0	Water	09/23/24 10:25	09/25/24 14:38
410-189680-13	HD-QC1-0/1-1	Water	09/23/24 12:00	09/25/24 14:38
410-189680-14	HD-QC1-0/1-2	Water	09/23/24 00:00	09/25/24 14:38

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 529291

Lab Sample ID: IC 410-529291/3 Client Sample ID:

Date Analyzed: 07/17/24 14:03 Lab File ID: HL17X02.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.81	Incomplete Integration	DVW2	07/18/24 08:33
Vinyl acetate	5.10	Incomplete Integration	DVW2	07/18/24 08:33

Lab Sample ID: IC 410-529291/4 Client Sample ID:

Date Analyzed: 07/17/24 14:24 Lab File ID: HL17X03.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	4.17	Incomplete Integration	DVW2	07/18/24 08:32
Vinyl acetate	5.07	Incomplete Integration	DVW2	07/18/24 08:32
Ethyl acetate	5.98	Incomplete Integration	DVW2	07/18/24 08:32

Lab Sample ID: IC 410-529291/5 Client Sample ID:

Date Analyzed: 07/17/24 14:44 Lab File ID: HL17X04.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.82	Incomplete Integration	DVW2	07/18/24 08:31
Vinyl acetate	5.06	Incomplete Integration	DVW2	07/18/24 08:34

Lab Sample ID: IC 410-529291/6 Client Sample ID:

Date Analyzed: 07/17/24 15:05 Lab File ID: HL17X05.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.83	Incomplete Integration	DVW2	07/18/24 08:34
Vinyl acetate	5.04	Other	UKEK	07/18/24 21:47
Ethyl acetate	5.93	Incomplete Integration	DVW2	07/18/24 08:34

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 529291

Lab Sample ID: IC 410-529291/8 Client Sample ID:

Date Analyzed: 07/17/24 15:46 Lab File ID: HL17X07.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,4-Dichloro-2-butene	11.95	Incomplete Integration	DVW2	07/18/24 08:30

Lab Sample ID: IC 410-529291/13 Client Sample ID:

Date Analyzed: 07/17/24 17:30 Lab File ID: HL17X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.50	Incomplete Integration	DVW2	07/18/24 08:26
Methyl acetate	3.84	Incomplete Integration	DVW2	07/18/24 08:27
Acrylonitrile	4.35	Incomplete Integration	DVW2	07/18/24 08:27
Propionitrile	5.97	Incomplete Integration	DVW2	07/18/24 08:27
Dibromomethane	8.42	Other	UKEK	07/18/24 21:02
Methyl methacrylate	8.44	Incomplete Integration	DVW2	07/18/24 08:27
2-Nitropropane	8.92	Incomplete Integration	DVW2	07/18/24 08:27
1-Bromo-2-chloroethane	9.06	Incomplete Integration	DVW2	07/18/24 08:27
Ethyl methacrylate	9.96	Incomplete Integration	DVW2	07/18/24 08:27
2-Hexanone	10.34	Other	UKEK	07/18/24 21:48
1,1,2,2-Tetrachloroethane	12.15	Incomplete Integration	DVW2	07/18/24 08:26

Lab Sample ID: IC 410-529291/14 Client Sample ID:

Date Analyzed: 07/17/24 17:51 Lab File ID: HL17X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.81	Incomplete Integration	DVW2	07/18/24 08:24
Acrylonitrile	4.37	Incomplete Integration	DVW2	07/18/24 08:24
n-Butanol	7.92	Incomplete Integration	DVW2	07/18/24 08:25
1,4-Dioxane	8.40	Incomplete Integration	DVW2	07/18/24 08:25
n-Butylbenzene	13.18	Other	UKEK	07/18/24 21:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 529291

Lab Sample ID: IC 410-529291/15 Client Sample ID:

Date Analyzed: 07/17/24 18:12 Lab File ID: HL17X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.40	Incomplete Integration	DVW2	07/18/24 08:23

Lab Sample ID: IC 410-529291/16 Client Sample ID:

Date Analyzed: 07/17/24 18:32 Lab File ID: HL17X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.79	Incomplete Integration	DVW2	07/18/24 08:22
1,4-Dioxane	8.40	Incomplete Integration	DVW2	07/18/24 09:03

Lab Sample ID: IC 410-529291/17 Client Sample ID:

Date Analyzed: 07/17/24 18:53 Lab File ID: HL17X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.39	Incomplete Integration	DVW2	07/18/24 09:03

Lab Sample ID: ICIS 410-529291/18 Client Sample ID:

Date Analyzed: 07/17/24 19:14 Lab File ID: HL17X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.39	Incomplete Integration	DVW2	07/18/24 09:02

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 529291

Lab Sample ID: IC 410-529291/19 Client Sample ID:

Date Analyzed: 07/17/24 19:35 Lab File ID: HL17X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.76	Incomplete Integration	DVW2	07/18/24 08:15
1,4-Dioxane	8.38	Incomplete Integration	DVW2	07/18/24 09:03

Lab Sample ID: ICV 410-529291/21 Client Sample ID:

Date Analyzed: 07/17/24 20:16 Lab File ID: HL17X20.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.77	Incomplete Integration	DVW2	07/18/24 08:29

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 556727

Lab Sample ID: CCVIS 410-556727/3 Client Sample ID:

Date Analyzed: 09/27/24 18:59 Lab File ID: HS27X02.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.76	Incomplete Integration	JS6E	09/27/24 19:34

Lab Sample ID: 410-189680-2 Client Sample ID: HD-COD-SW-7-0/1-0

Date Analyzed: 09/27/24 21:03 Lab File ID: HS27X08.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.96	Incomplete Integration	FQ4L	09/30/24 08:38
Acetone		Invalid Compound ID	FQ4L	09/30/24 08:38

Lab Sample ID: 410-189680-3 Client Sample ID: HD-COD-SW-8-0/1-0

Date Analyzed: 09/27/24 21:24 Lab File ID: HS27X09.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.97	Incomplete Integration	FQ4L	09/30/24 08:40

Lab Sample ID: 410-189680-4 Client Sample ID: HD-COD-SW-9-0/1-0

Date Analyzed: 09/27/24 21:45 Lab File ID: HS27X10.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.98	Incomplete Integration	FQ4L	09/30/24 08:41
Acetone		Invalid Compound ID	FQ4L	09/30/24 08:41

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 556727

Lab Sample ID: 410-189680-5 Client Sample ID: HD-COD-SW-13-0/1-0

Date Analyzed: 09/27/24 22:05 Lab File ID: HS27X11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.97	Incomplete Integration	FQ4L	09/30/24 08:43
1,1,1-Trichloroethane		Invalid Compound ID	FQ4L	09/30/24 08:43
Acetone		Invalid Compound ID	FQ4L	09/30/24 08:42

Lab Sample ID: 410-189680-7 Client Sample ID: HD-COD-SW-16-0/1-0

Date Analyzed: 09/27/24 23:29 Lab File ID: HS27X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	5.90	Incomplete Integration	FQ4L	09/30/24 08:53

Lab Sample ID: 410-189680-9 Client Sample ID: HD-COD-SW-26-0/1-0

Date Analyzed: 09/27/24 23:49 Lab File ID: HS27X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.96	Incomplete Integration	FQ4L	09/30/24 08:55
cis-1,2-Dichloroethene		Invalid Compound ID	FQ4L	09/30/24 08:55

Lab Sample ID: 410-189680-10 Client Sample ID: HD-COD-SW-27-0/1-0

Date Analyzed: 09/28/24 00:10 Lab File ID: HS27X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.96	Incomplete Integration	FQ4L	09/30/24 08:57
Acetone		Invalid Compound ID	FQ4L	09/30/24 08:56

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 556727

Lab Sample ID: 410-189680-11 Client Sample ID: HD-COD-SW-28-0/1-0

Date Analyzed: 09/28/24 00:31 Lab File ID: HS27X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.96	Incomplete Integration	FQ4L	09/30/24 08:59
Acetone		Invalid Compound ID	FQ4L	09/30/24 08:58

Lab Sample ID: 410-189680-8 Client Sample ID: HD-COD-SW-17-0/1-0

Date Analyzed: 09/28/24 01:13 Lab File ID: HS27X20.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloroethane		Invalid Compound ID	FQ4L	09/30/24 09:02

Lab Sample ID: 410-189680-13 Client Sample ID: HD-QC1-0/1-1

Date Analyzed: 09/28/24 01:54 Lab File ID: HS27X22.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloroethane		Invalid Compound ID	FQ4L	09/30/24 09:06

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_CCV_CYC_00009	01/10/25	07/10/24	50/50 MeOH/Water, Lot EH471	50 mL	MSV_VCYC_STK_00012	5.81 mL	Cyclohexanone	6250.4 ug/mL
.MSV_VCYC_STK_00012	01/10/25	07/10/24	50/50 MeOH/Water, Lot EH471	10 mL	MSV_CYC_00009	0.5379 g	Cyclohexanone	53790 ug/mL
..MSV_CYC_00009	06/30/27	Chem Service, Lot 14568900			(Purchased Reagent)		Cyclohexanone	1 g/g
MSV_CCV_V5ACE_00038	08/11/24	07/11/24	Methanol, Lot EH822	10 mL	MSV_AcetatesV_00060	1 mL	Acetonitrile	5000 ug/mL
							Ethyl acetate	1000 ug/mL
							Vinyl acetate	1000 ug/mL
.MSV_AcetatesV_00060	11/30/24	Restek, Lot A0197847			(Purchased Reagent)		Acetonitrile	50000 ug/mL
							Ethyl acetate	10000 ug/mL
							Vinyl acetate	10000 ug/mL
MSV_DME_00056	08/10/24	Restek, Lot A0190883			(Purchased Reagent)		Dimethyl ether	1000 ug/mL
MSV_LCS_VOC#1_00176	08/13/24	07/14/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00217	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00213	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00192	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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_M_MIX1SEC_00217	06/30/26		Restek, Lot A0211284		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00213	04/30/26		Restek, Lot A0197573		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00192	04/30/25		Restek, Lot A0194631		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00186	10/23/24	09/23/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00225	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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00222	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00225	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_00225	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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00222	05/31/27		Restek, Lot A0212017		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00225	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_00137	08/10/24	07/14/24	Methanol, Lot EH822	1 mL	MSV_CCV_VOC#1_00192	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00188	200 uL	Acrolein	2505.44 ug/mL
							2-Butanone (MEK)	500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					MSV_V_VOA2_00246	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	4375 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
.MSV_CCV_VOC#1_00192	08/13/24	07/14/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00187	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00182	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,4-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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00187	08/13/24		Restek, Lot A0197556		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00182	08/13/24		Restek, Lot A0197578		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,4-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_00188	08/10/24	07/14/24	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00021	0.5 mL	Acrolein	12527.2 ug/mL
					MSV_V_Ketones_00172	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_CCV_ACR_00021	08/10/24	06/11/24	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00041	9.393 mL	Acrolein	125272 ug/mL
...MSV_VACR_STK_00041	08/10/24	06/11/24	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00034	1.4356 g	Acrolein	133367 ug/mL
....MSV_ACROLEIN_00034	01/31/25		Chem Service, Lot 15004000		(Purchased Reagent)		Acrolein	0.929 g/g

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSV_V_Ketones_00172	01/31/26		Restek, Lot A0193494		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MSV_V_VOA2_00246	08/13/24	07/14/24	Methanol, Lot EH471	5 mL	MSV_V#2B_00383	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_00383	05/31/26		Restek, Lot A0211456		(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#1_826_00147	10/06/24	09/11/24	Methanol, Lot EH822	1 mL	MSV_CCV_VOC#1_00200	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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	50 ug/mL
					MSV_CCV_VOC#3_00197	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_00200	10/09/24	09/09/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00198	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00196	1 mL	Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
..MSV_MegaMIX#1_00198	10/09/24		Restek, Lot A00211483		(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
							1,2-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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Methylene Chloride	5000 ug/mL
							Styrene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00196	10/09/24		Restek, Lot A0212010		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
.MSV_CCV_VOC#3_00197	10/06/24	09/09/24	Methanol, Lot EH471	5 mL	MSV_V_Ketones_00197	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_00197	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_00144	07/28/24	07/14/24	Methanol, Lot EH822	1 mL	CCV_ETBR_00007	50 uL	Ethyl bromide	50.085 ug/mL
					MSV_BCE_00070	25 uL	1-Bromo-2-chloroethane	50 ug/mL
					MSV_CCV_EE_00007	50 uL	Ethyl ether	49.9948 ug/mL
					MSV_V_PentaCL_00049	10 uL	Pentachloroethane	50 ug/mL
.CCV_ETBR_00007	11/08/24	05/08/24	Methanol, Lot EH471	10 mL	MSV_VETBR_STK_00016	0.212 mL	Ethyl bromide	1001.7 ug/mL
..MSV_VETBR_STK_00016	11/08/24	05/08/24	Methanol, Lot EH471	10 mL	MSV_EtBr_00009	0.4725 g	Ethyl bromide	47250 ug/mL
...MSV_EtBr_00009	06/30/25		Chem Service, Lot 13345600		(Purchased Reagent)		Ethyl bromide	1 g/g
.MSV_BCE_00070	08/13/24		Restek, Lot A0201612		(Purchased Reagent)		1-Bromo-2-chloroethane	2000 ug/mL
.MSV_CCV_EE_00007	11/07/24	05/07/24	Methanol, Lot EH471	50 mL	MSV_EE_MISCSK_00014	0.917 mL	Ethyl ether	999.897 ug/mL
..MSV_EE_MISCSK_00014	11/07/24	05/07/24	Methanol, Lot EH471	10 mL	MSV_EE_Neat_00011	0.5452 g	Ethyl ether	54520 ug/mL
...MSV_EE_Neat_00011	06/30/27		Chem Service, Lot 14084700		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00049	07/28/24		Restek, Lot A0184174		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_GAS826_00220	07/23/24	07/16/24	Methanol, Lot EH822	1 mL	MSV_CCV_GASES_00813	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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00813	05/31/27		Restek, Lot A0212054		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LL_GAS826_00235	10/02/24	09/25/24	Methanol, Lot EH822	1 mL	MSV_CCV_GASES_00880	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00880	10/02/24		Restek, Lot A0212054		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LLcentISO_00008	08/01/24	05/20/24	Methanol, Lot EG095	50 mL	MSV_Cus826_IS_00663	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_Cus826_IS_00663	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_LLcentISS_00012	08/01/24	02/01/24	Methanol, Lot EG095	50 mL	MSV_8260_SS_01091	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					MSV_Cus826_IS_00663	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_8260_SS_01091	05/30/28		Restek, Lot A0201083		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.MSV_Cus826_IS_00663	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_LLcentISS_00013	12/17/24	06/17/24	Methanol, Lot EH822	50 mL	MSV_Cus826_IS_00791	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_Cus826_IS_00791	04/30/26		Restek, Lot A0197488		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_LLcentISS_00013	12/17/24	06/17/24	Methanol, Lot EH822	50 mL	MSV_8260_SS_01219	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.MSV_8260_SS_01219	01/31/29		Restek, Lot A0206374		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MSV_QC_Gas826_00207	07/21/24	07/16/24	Methanol, Lot EH822	1 mL	MSV_QC_2K_GAS_00225	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00225	07/21/24		Restek, Lot A0184924		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00223	09/30/24	09/23/24	Methanol, Lot EH822	1 mL	MSV_QC_2K_GAS_00239	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00239	09/30/24		Restek, Lot A0184924		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_V_BFB_00017							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00012	0.09 mL	BFB	50.112 ug/mL
.MSV_VBFB_STK_00012	12/02/24	06/02/24	Methanol, Lot EH471	10 mL	MSV_4BFB_NEAT_00011	1.392 g	BFB	139200 ug/mL
..MSV_4BFB_NEAT_00011	05/31/25		Chem Service, Lot 15267000		(Purchased Reagent)		BFB	1 g/g
MSV_V_SMRV4_00072	07/22/24	06/23/24	Methanol, Lot EH822	1 mL	MSV_CCV_2CEVE_00181	200 uL	2-Chloroethyl vinyl ether	200 ug/mL
					MSV_CCV_LKB_00010	400 uL	cis-1,4-Dichloro-2-butene	399.946 ug/mL
					MSV_V_SMFreon_00044	100 uL	Chlorodifluoromethane	200 ug/mL
.MSV_CCV_2CEVE_00181	07/23/24	06/23/24	Methanol, Lot EH471	5 mL	MSV_V_2CLEVE_00186	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00186	04/30/26		Restek, Lot A0197472		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_CCV_LKB_00010	12/13/24	06/13/24	Methanol, Lot EH471	50 mL	MSV_Vc14d_STK_00011	1.233 mL	cis-1,4-Dichloro-2-butene	999.864 ug/mL
..MSV_Vc14d_STK_00011	12/13/24	06/13/24	Methanol, Lot EH471	10 mL	MSV_c14dcb_Nt_00004	0.4268 g	cis-1,4-Dichloro-2-butene	40546 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...MSV_c14dcb_Nt_00004	08/16/27	Aldrich, Lot SHBH4584V			(Purchased Reagent)		cis-1,4-Dichloro-2-butene	0.95 g/g
.MSV_V_SMFreon_00044	07/22/24	Restek, Lot A0184508			(Purchased Reagent)		Chlorodifluoromethane	2000 ug/mL

Reagent

MSV_AcetatesV_00060

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom Acetates Standard

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

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

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

Ship: On Ice

CERTIFIED VALUES

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

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

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

Tech Tips:

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

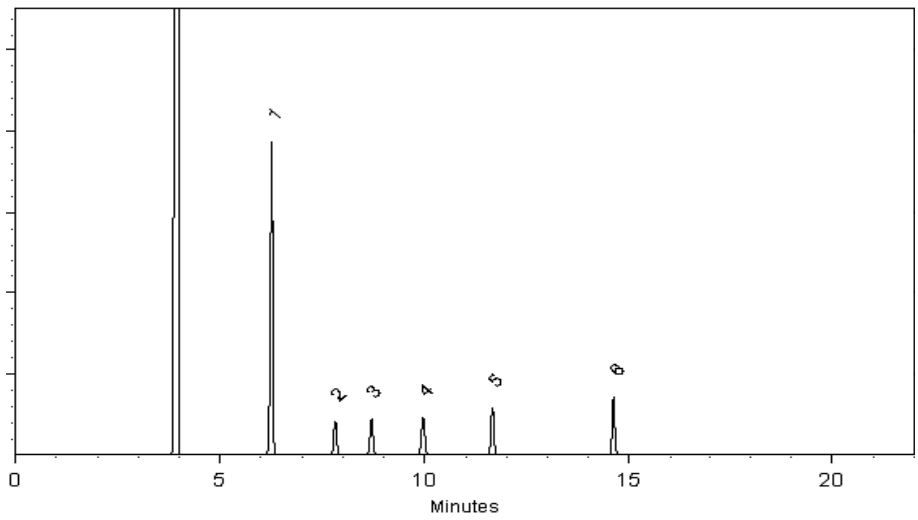
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Brittany Federinko - Operations Tech I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_BCE_00070

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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.)

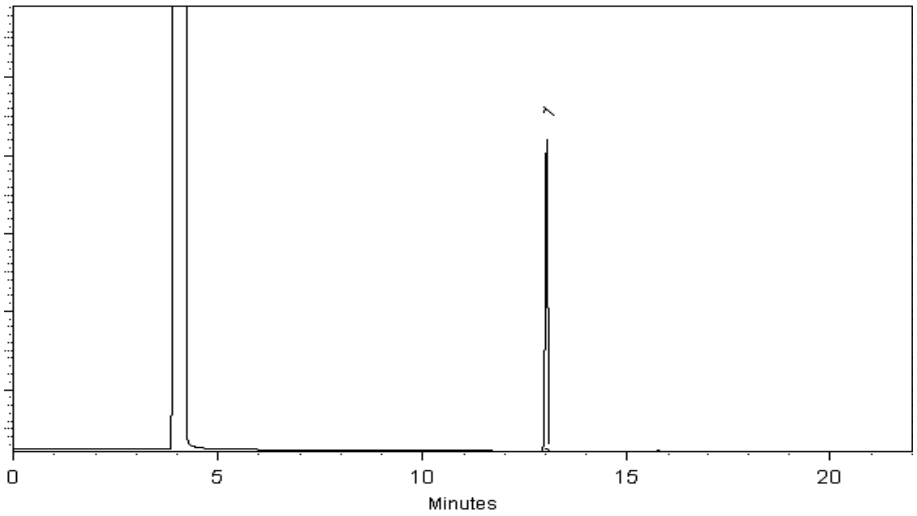
Inj. Temp:
200°C

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:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_c14dcb_Nt_00004

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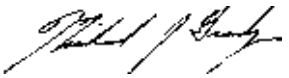
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
cis-1,4-Dichloro-2-butene - 95%

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

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



Michael Grady, Manager
Quality Control
Sheboygan Falls, WI US

Reagent

MSV_CCV_GASES_00813

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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. : 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.

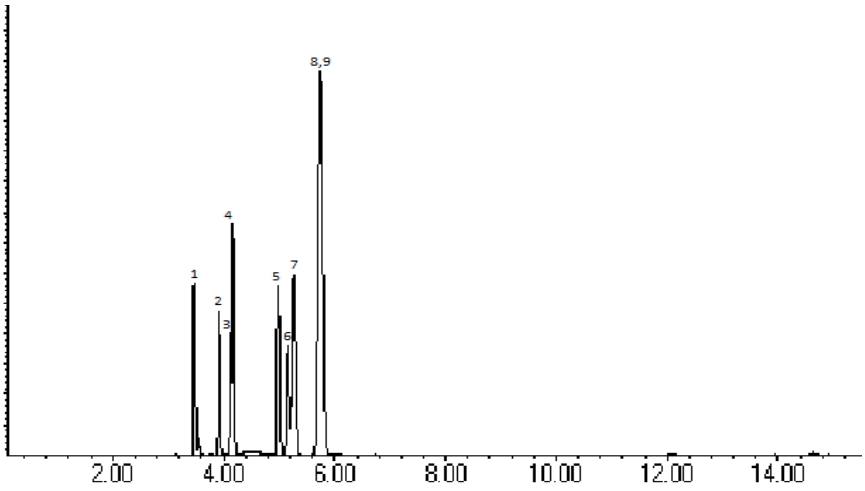
Inj. Temp:
200°C

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:

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

  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_00791

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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.:** A0197488

Description : Custom 8260A IS Mix

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

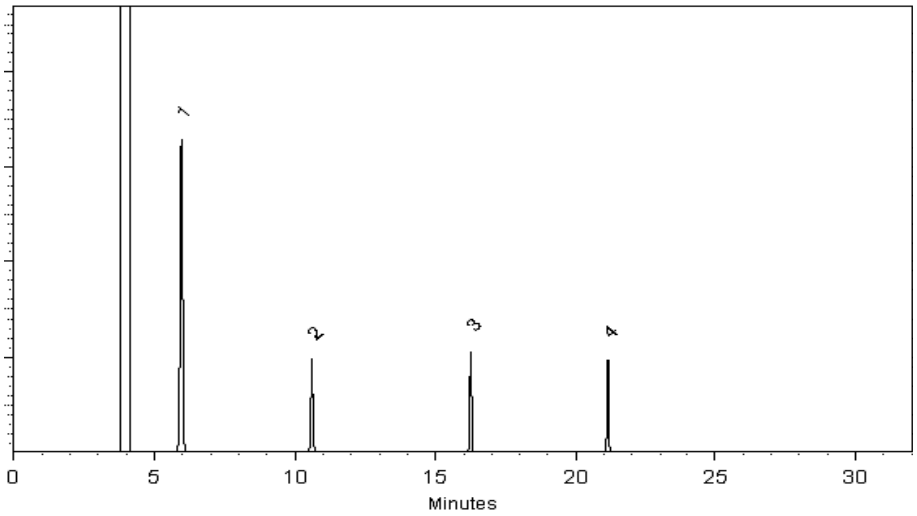
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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

Daniel Wasson - Operations Tech I

Date Mixed: 26-Apr-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_DME_00056

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

Description : Custom Dimethyl Ether Standard

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

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

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

Ship: Ambient

C E R T I F I E D V A L U E S

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

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

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

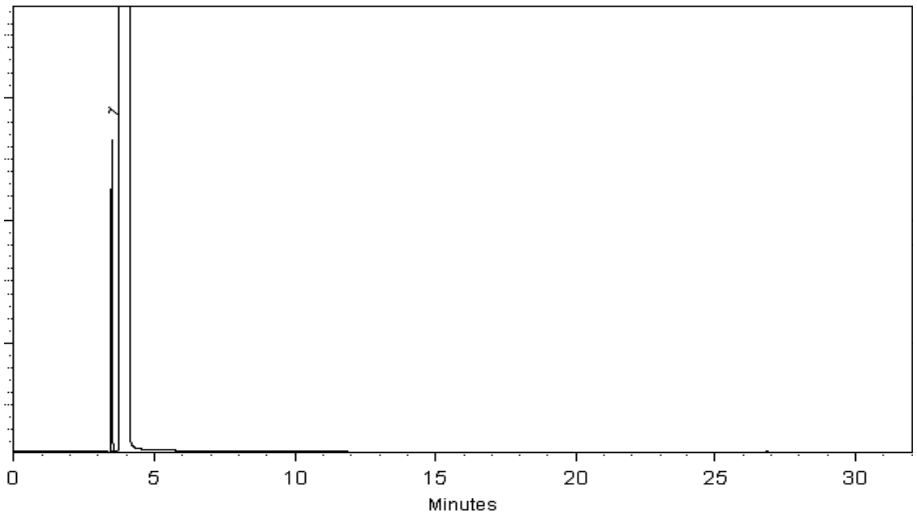
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Cathleen Soltis - Mix Technician

Date Mixed: 24-Oct-2022 **Balance:** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Nov-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_00222

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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. : 577494 **Lot No.:** A0212017

Description : Custom VOC MegaMix®.SEC #2 Standard

Custom VOC MegaMix®.SEC #2 Standard 1,000-50,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : 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.SEC	FGH02	99%	1,010.0 µg/mL	+/- 16.5203
2	2-Propanol (isopropanol)	67-63-0.SEC	7B8ZE	99%	7,521.0 µg/mL	+/- 122.9828
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1.SEC	18342	99%	1,010.0 µg/mL	+/- 16.5203
4	tert-Butanol (TBA)	75-65-0.SEC	5REPK	99%	10,058.5 µg/mL	+/- 164.4758
5	Methyl acetate	79-20-9.SEC	LV27M	99%	1,005.5 µg/mL	+/- 16.4467
6	Iodomethane (methyl iodide)	74-88-4.SEC	Y25A027	99%	1,008.5 µg/mL	+/- 16.4957
7	Allyl chloride (3-chloropropene)	107-05-1.SEC	RD210329	99%	1,010.0 µg/mL	+/- 16.5203
8	Carbon disulfide	75-15-0.SEC	MKBL1376V	99%	1,005.0 µg/mL	+/- 16.4385
9	Acrylonitrile	107-13-1.SEC	V54AD	99%	5,033.0 µg/mL	+/- 82.2992
10	Methyl-tert-butyl ether (MTBE)	1634-04-4.SEC	ZHKYA	99%	1,009.0 µg/mL	+/- 16.5039
11	n-Hexane (C6)	110-54-3.SEC	10188491	99%	1,002.5 µg/mL	+/- 16.3976
12	Diisopropyl ether (DIPE)	108-20-3.SEC	LL7TN-SH	99%	1,004.0 µg/mL	+/- 16.4221
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	S240508RSR	99%	1,004.5 µg/mL	+/- 16.4303
14	Ethyl-tert-butyl ether (ETBE)	637-92-3.SEC	UCI5B	98%	1,005.0 µg/mL	+/- 16.4383
15	Propionitrile	107-12-0.SEC	B4ZPC	99%	7,531.5 µg/mL	+/- 123.1545
16	Methacrylonitrile	126-98-7	1012014	99%	7,552.0 µg/mL	+/- 123.4897

17	Isobutanol (2-Methyl-1-propanol)	78-83-1.SEC	PH2XK	99%	25,152.5	µg/mL	+/- 411.2916
18	Tetrahydrofuran	109-99-9.SEC	3NYHE	99%	5,019.0	µg/mL	+/- 82.0703
19	Cyclohexane	110-82-7.SEC	YADRA	99%	1,005.0	µg/mL	+/- 16.4385
20	1-Butanol	71-36-3.SEC	LIE2D	99%	50,148.0	µg/mL	+/- 820.0105
21	tert-Amyl methyl ether (TAME)	994-05-8.SEC	12075100	98%	1,008.4	µg/mL	+/- 16.4944
22	n-Heptane (C7)	142-82-5.SEC	TFHUC	99%	1,003.5	µg/mL	+/- 16.4139
23	tert-Amyl ethyl ether (TAEE)	919-94-8.SEC	14406100	98%	1,008.9	µg/mL	+/- 16.5024
24	Methylcyclohexane	108-87-2.SEC	Q02QG	99%	1,006.0	µg/mL	+/- 16.4548
25	Methyl methacrylate	80-62-6.SEC	G01X021	99%	1,002.5	µg/mL	+/- 16.3976
26	1,4-Dioxane	123-91-1.SEC	QHRWO	99%	25,103.0	µg/mL	+/- 410.4822
27	2-Nitropropane	79-46-9.SEC	F43IA	99%	1,007.0	µg/mL	+/- 16.4712
28	Ethyl methacrylate	97-63-2.SEC	AQSPO	99%	1,006.5	µg/mL	+/- 16.4630
29	1-Chlorohexane	544-10-5.SEC	14420900	99%	1,002.0	µg/mL	+/- 16.3894
30	trans-1,4-Dichloro-2-butene	110-57-6.SEC	RD240522S	97%	5,007.6	µg/mL	+/- 81.8843
31	1,2,3-Trimethylbenzene	526-73-8.SEC	12203300	99%	1,008.0	µg/mL	+/- 16.4876
32	1,3-Diethylbenzene	141-93-5.SEC	113566-1	99%	1,006.5	µg/mL	+/- 16.4630
33	Benzyl chloride	100-44-7.SEC	H29N03	99%	1,003.5	µg/mL	+/- 16.4139
34	1,4-Diethylbenzene	105-05-5.SEC	FBQ02	98%	1,007.9	µg/mL	+/- 16.4864
35	1,2-Diethylbenzene	135-01-3.SEC	BCBF3667V	99%	1,005.5	µg/mL	+/- 16.4467
36	1,3,5-Trichlorobenzene	108-70-3.SEC	I28U021	99%	1,002.0	µg/mL	+/- 16.3894
37	2-Methylnaphthalene	91-57-6.SEC	76023-1	99%	1,002.5	µg/mL	+/- 16.3976

* 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.)

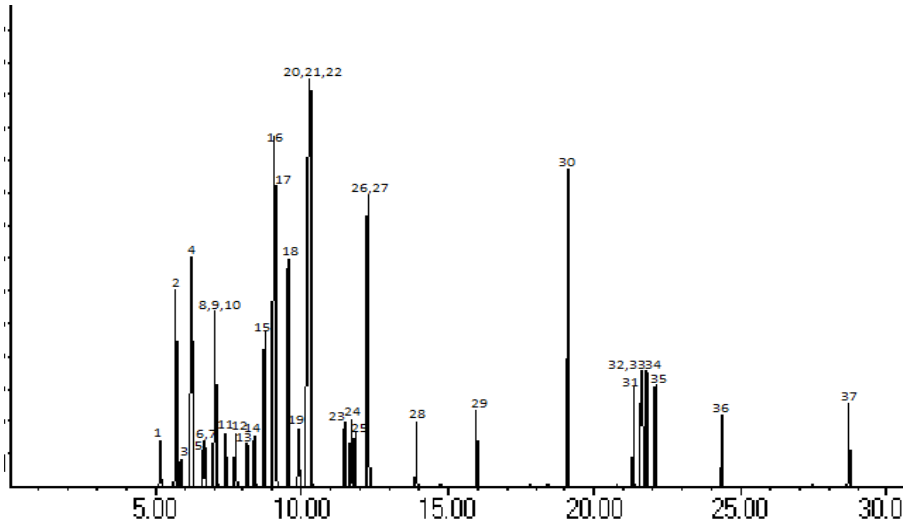
Inj. Temp:
200°C

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.

Malina Homan - Operations Technician I

Date Mixed: 24-May-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 04-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:

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

  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_00187

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
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. : 577486 **Lot No.:** A0197556

Description : Custom VOC MegaMix® #1 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

17	Dibromomethane	74-95-3	10233302	99%	5,047.7	µg/mL	+/-	284.3260
18	cis-1,3-Dichloropropene	10061-01-5	RD221227RSRB	99%	5,027.8	µg/mL	+/-	283.1844
19	Toluene	108-88-3	ED097-US	99%	5,047.6	µg/mL	+/-	284.3204
20	trans-1,3-Dichloropropene	10061-02-6	RD220228A	98%	5,026.1	µg/mL	+/-	283.0852
21	1,1,2-Trichloroethane	79-00-5	FGB01	99%	5,037.6	µg/mL	+/-	283.7335
22	1,3-Dichloropropane	142-28-9	BCCH5357	99%	5,042.5	µg/mL	+/-	284.0331
23	Tetrachloroethene	127-18-4	SHBJ7422	99%	5,031.8	µg/mL	+/-	283.4097
24	dibromochloromethane	124-48-1	MKCM8659	99%	5,024.5	µg/mL	+/-	282.9978
25	1,2-Dibromoethane (EDB)	106-93-4	BCCH7113	99%	5,044.2	µg/mL	+/-	284.1289
26	Chlorobenzene	108-90-7	SHBN6640	99%	5,022.1	µg/mL	+/-	282.8605
27	1,1,1,2-Tetrachloroethane	630-20-6	GC01	99%	5,043.6	µg/mL	+/-	284.0951
28	Ethylbenzene	100-41-4	094632L21G	99%	5,045.6	µg/mL	+/-	284.2077
29	m-Xylene	108-38-3	Q13G020	99%	5,048.8	µg/mL	+/-	284.3880
30	p-Xylene	106-42-3	10234437	99%	5,045.7	µg/mL	+/-	284.2134
31	o-Xylene	95-47-6	SHBN5105	98%	5,038.2	µg/mL	+/-	283.7898
32	Styrene	100-42-5	MKCQ3390	99%	5,041.8	µg/mL	+/-	283.9937
33	Isopropylbenzene (cumene)	98-82-8	Z20D022	99%	5,047.5	µg/mL	+/-	284.3148
34	bromoform	75-25-2	MKCR0680	99%	5,030.8	µg/mL	+/-	283.3533
35	1,1,2,2-Tetrachloroethane	79-34-5	OXACF	99%	5,031.6	µg/mL	+/-	283.3956
36	1,2,3-Trichloropropane	96-18-4	332900	99%	5,044.1	µg/mL	+/-	284.1232
37	n-Propylbenzene	103-65-1	G08M	98%	5,049.5	µg/mL	+/-	284.4246
38	Bromobenzene	108-86-1	MKCQ7174	99%	5,044.6	µg/mL	+/-	284.1514
39	1,3,5-Trimethylbenzene	108-67-8	BCCF4166	99%	5,049.4	µg/mL	+/-	284.4218
40	2-Chlorotoluene	95-49-8	235783M23T	99%	5,044.5	µg/mL	+/-	284.1458
41	4-Chlorotoluene	106-43-4	BCCG9286	99%	5,045.5	µg/mL	+/-	284.2021
42	tert-Butylbenzene	98-06-6	STBJ1937	99%	5,047.9	µg/mL	+/-	284.3373
43	1,2,4-Trimethylbenzene	95-63-6	MKCS3775	99%	5,047.3	µg/mL	+/-	284.3035
44	sec-Butylbenzene	135-98-8	MKCP2266	99%	5,046.3	µg/mL	+/-	284.2472
45	p-Isopropyltoluene (p-Cymene)	99-87-6	MKCR6143	99%	5,045.8	µg/mL	+/-	284.2190
46	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	5,036.8	µg/mL	+/-	283.6878
47	1,4-Dichlorobenzene	106-46-7	MKBS4401V	99%	5,037.8	µg/mL	+/-	283.7476
48	n-Butylbenzene	104-51-8	09804AE	99%	5,049.1	µg/mL	+/-	284.4049
49	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	5,030.9	µg/mL	+/-	283.3604
50	1,2-Dibromo-3-chloropropane	96-12-8	HBMVB	97%	5,047.8	µg/mL	+/-	284.3307
51	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	5,046.6	µg/mL	+/-	284.2641
52	Hexachlorobutadiene	87-68-3	X05J	99%	5,045.1	µg/mL	+/-	284.1796

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

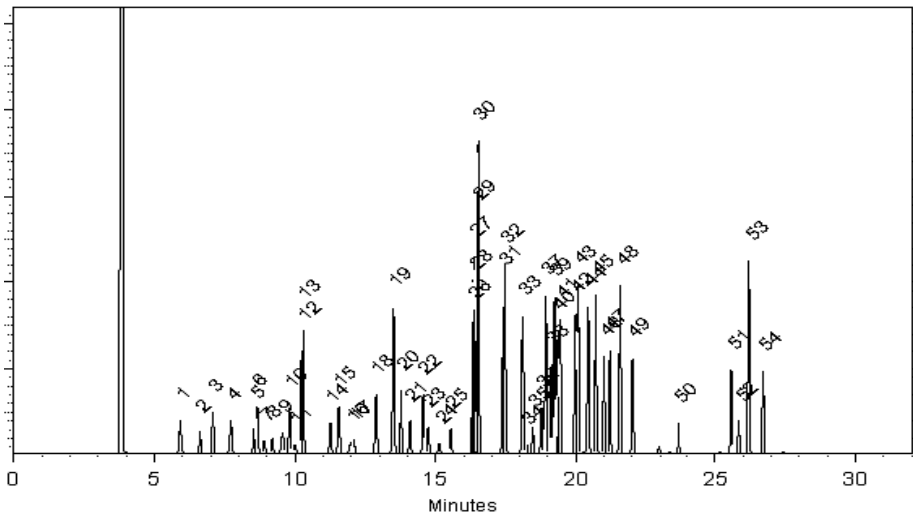
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Nick Yaw - Operations Tech I

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

Christie Mills - Operations Tech II - ARM QC

Date Passed: 05-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  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_00198

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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. : 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.)

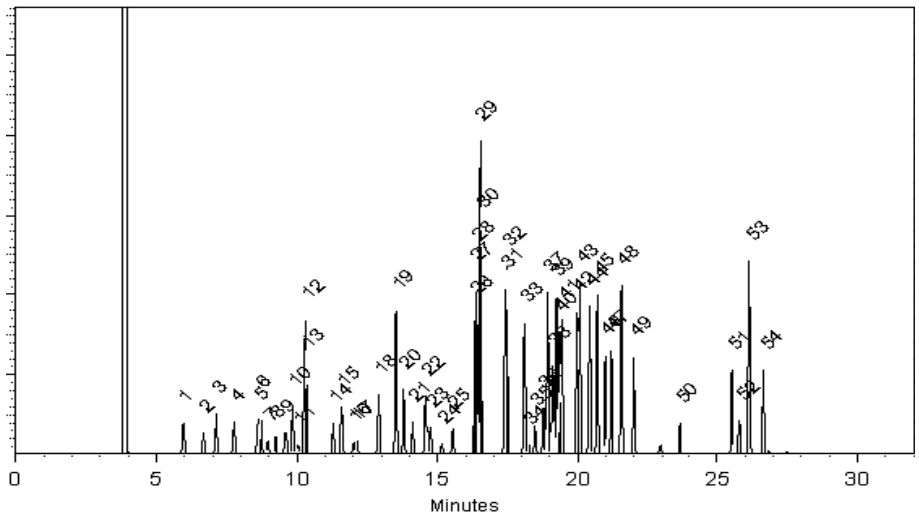
Inj. Temp:
200°C

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 - Operations Technician I

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

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:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00182

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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. : 577487 **Lot No.:** A0197578

Description : Custom VOC MegaMix® #2 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Quality Confirmation Test

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

Carrier Gas:
helium-constant pressure 30 psi

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

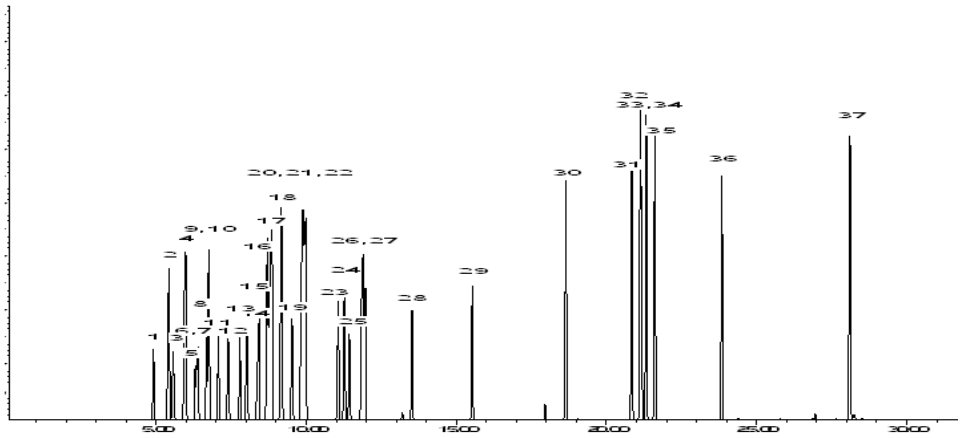
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
25.0 ml/min.

Inj. Vol
1µl



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

Sam Moodler - Operations Tech I

Date Mixed: 30-Apr-2023 **Balance Serial #** B251644995

Marlina Cowan -- Operations Tech II ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  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_00196

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

www.restek.com

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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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.)

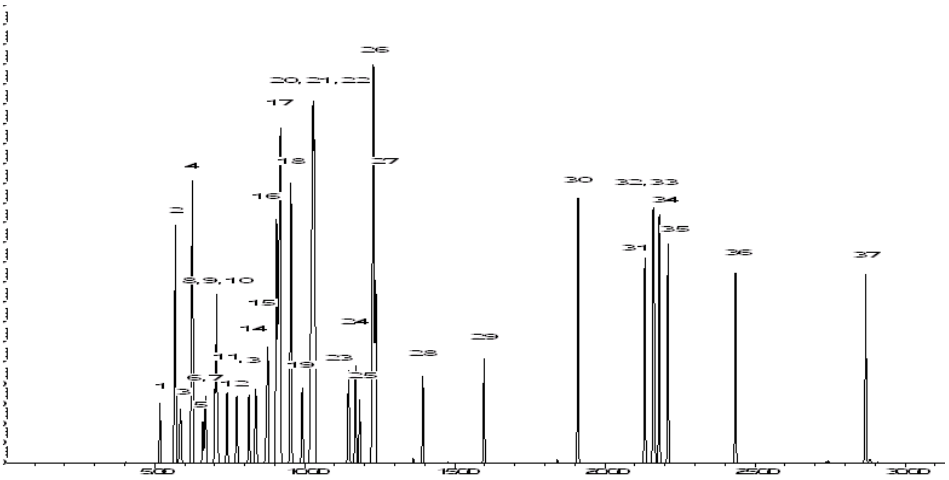
Inj. Temp:
200°C

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:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_Q_Ketones_00192

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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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

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

Description : 8260 List 1/ Std #2 Ketones (2015)

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Purity 99%

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

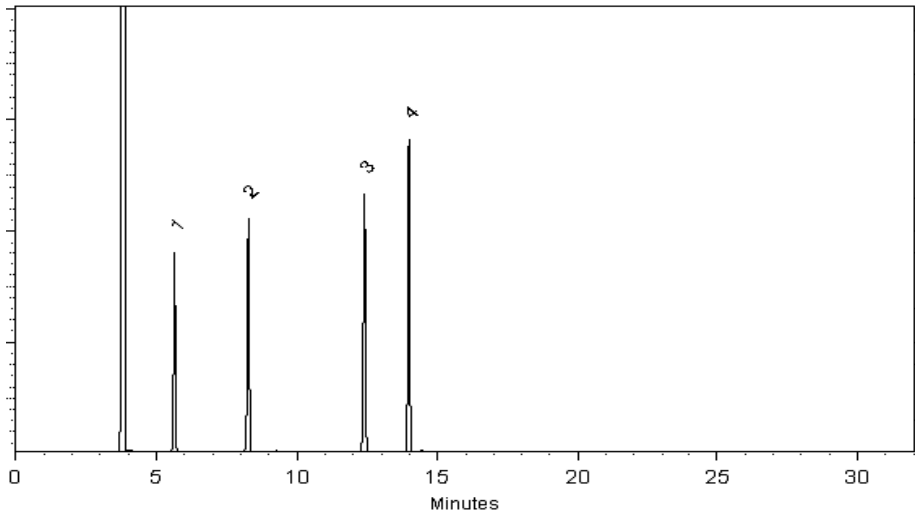
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Bryan Snyder - Operations Tech I

Date Mixed: 14-Feb-2023 **Balance Serial #** 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Feb-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_Q_Ketones_00225

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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

Description : 8260 List 1/ Std #2 Ketones (2015)

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Purity 99%

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

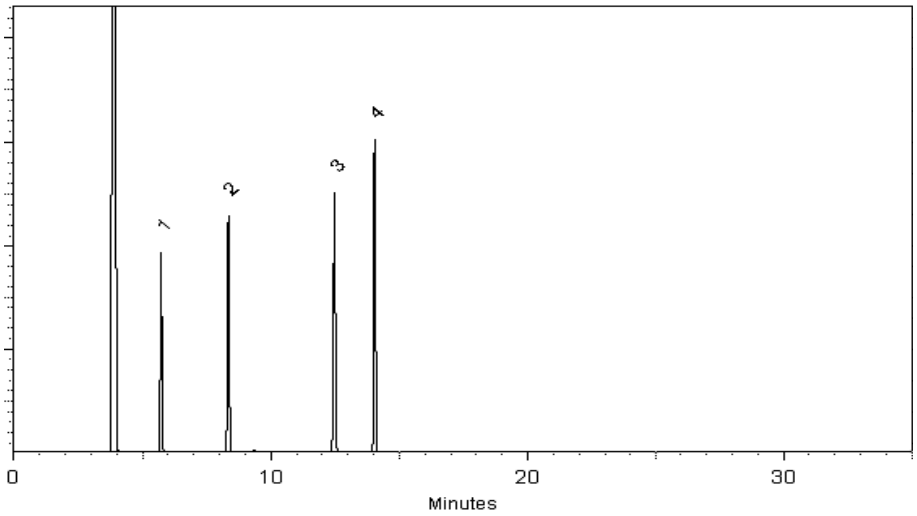
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Ethan Winiarski - Operations Tech I

Date Mixed: 05-Apr-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Apr-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_QC_2K_GAS_00225

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

Description : Custom Gases.SEC Standard

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

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

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

Ship: Ambient

C E R T I F I E D V A L U E S

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

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

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

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

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

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

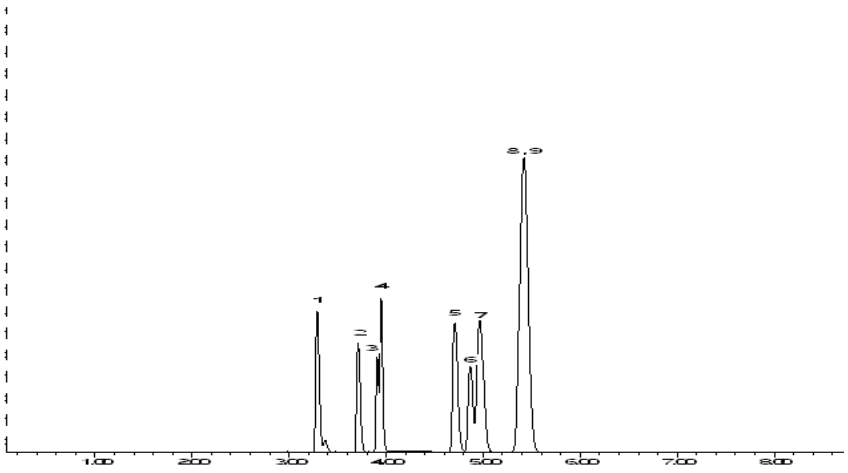
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Brandon Reish - Mix Technician

Date Mixed: 05-May-2022 **Balance:** 1127510105

Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_QC_2K_GAS_00239

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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

Description : Custom Gases.SEC Standard

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

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

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

Ship: Ambient

C E R T I F I E D V A L U E S

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

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

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

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

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

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

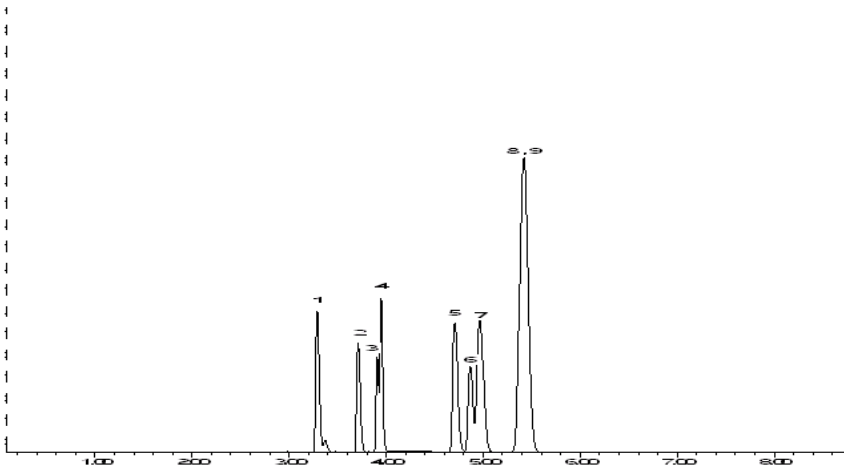
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Brandon Reish - Mix Technician

Date Mixed: 05-May-2022 **Balance:** 1127510105

Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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

Description : Custom 2-CEVE Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

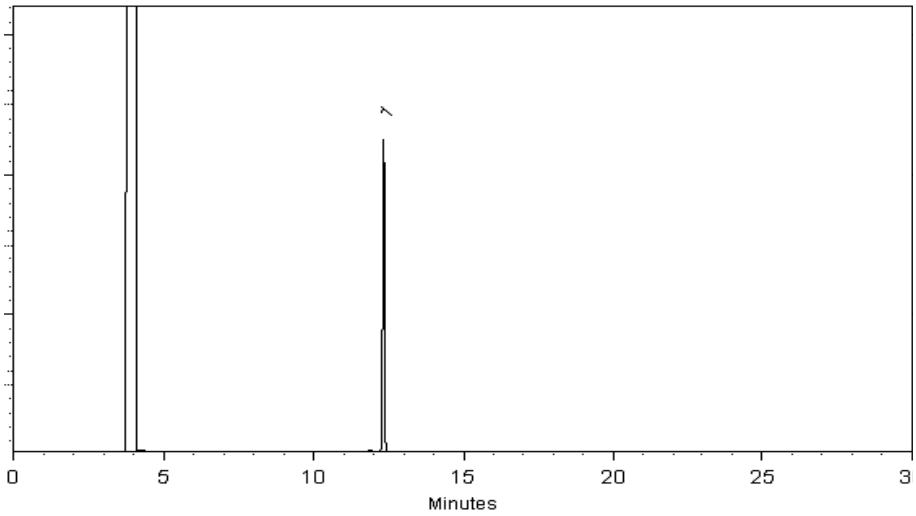
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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

Russ Bookhamer - Operations Technician I

Date Mixed: 26-Apr-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_Ketones_00172

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : 8260 List 1/ Std #2 Ketones (2015)

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Purity 99%

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

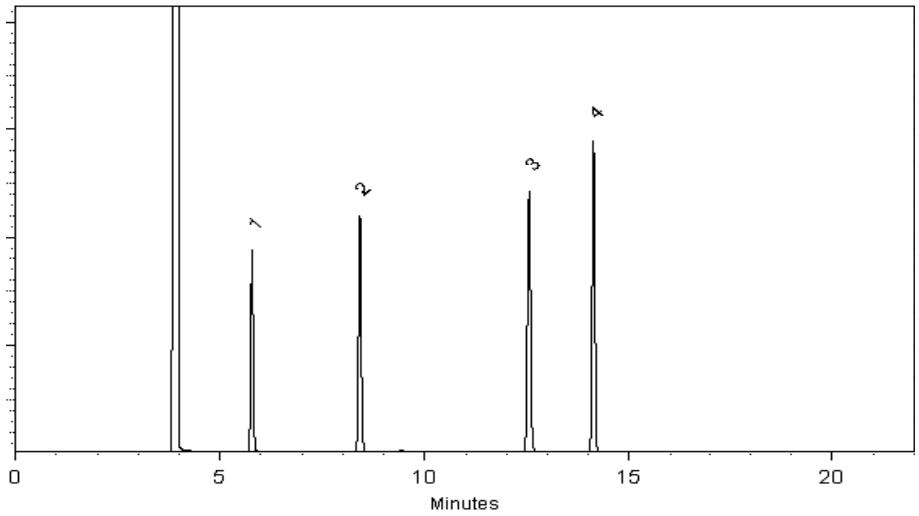
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Bethany Lowery - Operations Tech I

Date Mixed: 12-Jan-2023 **Balance Serial #** B251644995

Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721 **Lot No.:** 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.)

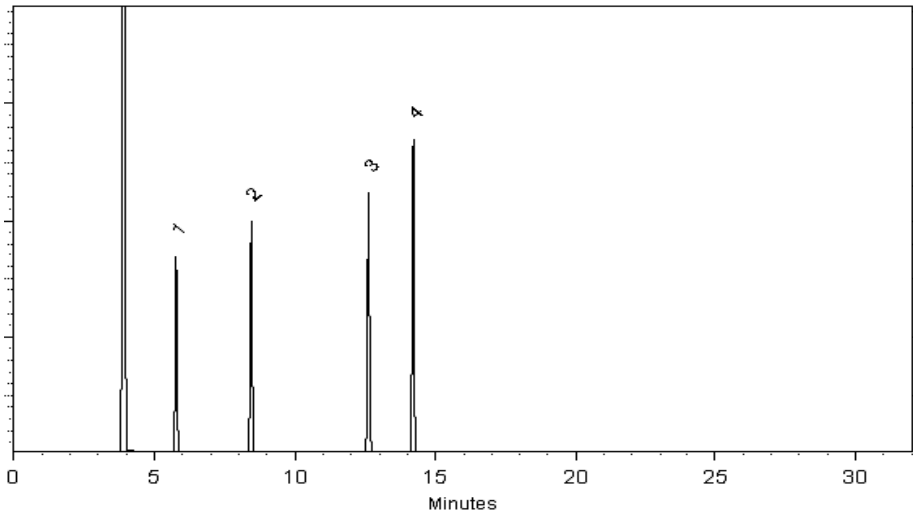
Inj. Temp:
200°C

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:

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

  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

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

Description : Custom Pentachloroethane Standard

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

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

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

Ship: Ambient

C E R T I F I E D V A L U E S

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

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

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

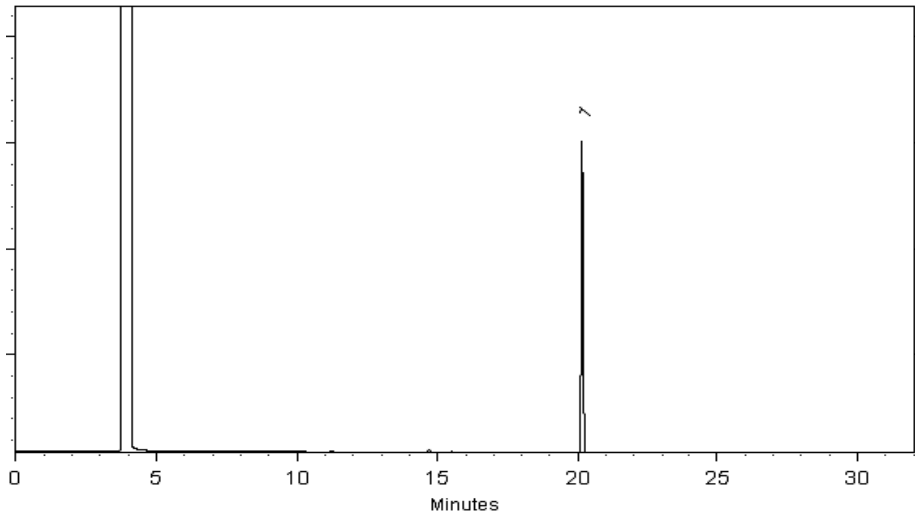
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Nick Yaw - Operations Tech I

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

Christie Mills - Operations Technician II

Date Passed: 20-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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

Description : Custom SM Freons Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

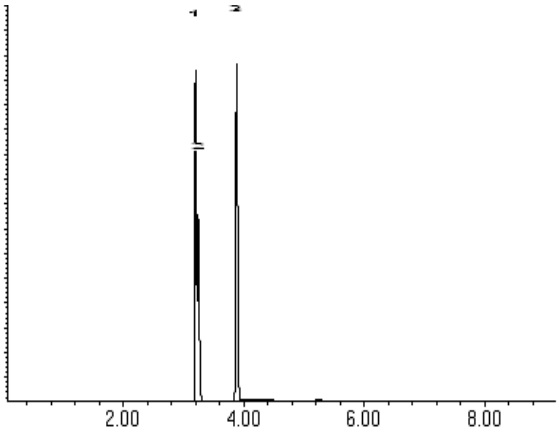
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Cathleen Soltis - Mix Technician

Date Mixed: 25-Apr-2022 **Balance:** B707717271

Christie Mills - Operations Technician II

Date Passed: 02-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Method 8260D Low Level

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

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	410-189680-1	100	93	99	97
HD-COD-SW-7-0/1-0	410-189680-2	104	99	100	97
HD-COD-SW-8-0/1-0	410-189680-3	103	96	101	97
HD-COD-SW-9-0/1-0	410-189680-4	103	94	101	97
HD-COD-SW-13-0/1-0	410-189680-5	104	94	100	95
HD-COD-SW-15-0/1-0	410-189680-6	104	99	100	93
HD-COD-SW-16-0/1-0	410-189680-7	103	96	100	97
HD-COD-SW-17-0/1-0	410-189680-8	103	101	99	95
HD-COD-SW-26-0/1-0	410-189680-9	104	98	100	95
HD-COD-SW-27-0/1-0	410-189680-10	101	97	102	97
HD-COD-SW-28-0/1-0	410-189680-11	103	101	100	93
HD-COD-SW-29-0/1-0	410-189680-12	102	96	101	95
HD-QC1-0/1-1	410-189680-13	102	97	100	94
HD-QC1-0/1-2	410-189680-14	104	100	100	95
	MB 410-556727/6	102	94	100	95
	LCS 410-556727/4	101	95	101	98
HD-COD-SW-15-0/1-0 MS MS	410-189680-6 MS	102	93	101	99
HD-COD-SW-15-0/1-0 MSD MSD	410-189680-6 MSD	103	98	100	99

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	80-120
DCA = 1,2-Dichloroethane-d4 (Surr)	80-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	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.: 410-189680-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HS27X03.D

Lab ID: LCS 410-556727/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.88	98	80-122	
1,1,1-Trichloroethane	5.00	5.30	106	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.18	84	75-123	
1,1,2-Trichloroethane	5.00	4.44	89	80-120	
1,1-Dichloroethane	5.00	5.16	103	74-120	
1,1-Dichloroethene	5.00	5.20	104	80-131	
1,2-Dibromoethane (EDB)	5.00	4.46	89	80-120	
1,2-Dichloroethane	5.00	4.64	93	69-122	
1,2-Dichloropropane	5.00	4.88	98	80-120	
2-Butanone (MEK)	62.5	57.8	93	59-141	
2-Hexanone	62.5	55.2	88	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	54.4	87	55-140	
Acetone	62.5	51.6	83	60-146	
Benzene	5.00	4.89	98	80-120	
Bromochloromethane	5.00	4.85	97	80-133	
Bromodichloromethane	5.00	4.87	97	80-123	
Bromoform	5.00	4.41	88	75-126	
Bromomethane	5.00	4.43	89	63-120	
Carbon disulfide	5.00	5.00	100	67-130	
Carbon tetrachloride	5.00	5.44	109	64-141	
Chlorobenzene	5.00	4.79	96	80-120	
Chloroethane	5.00	4.75	95	63-120	
Chloroform	5.00	4.95	99	80-120	
Chloromethane	5.00	3.89	78	56-124	
cis-1,2-Dichloroethene	5.00	4.95	99	80-122	
cis-1,3-Dichloropropene	5.00	4.55	91	67-121	
Dibromochloromethane	5.00	4.70	94	80-123	
Ethylbenzene	5.00	4.70	94	80-120	
Methyl tert-butyl ether	5.00	4.29	86	69-120	
Methylene Chloride	5.00	4.48	90	80-120	
Styrene	5.00	4.95	99	80-120	
Tetrachloroethene	5.00	4.90	98	80-120	
Toluene	5.00	4.84	97	80-120	
trans-1,2-Dichloroethene	5.00	5.03	101	80-122	
trans-1,3-Dichloropropene	5.00	4.52	90	61-129	
Trichloroethene	5.00	4.85	97	80-120	
Vinyl chloride	5.00	4.26	85	60-125	
Xylenes, Total	15.0	15.1	101	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HS27X13.D

Lab ID: 410-189680-6 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	5.17	103	80-122	
1,1,1-Trichloroethane	5.00	0.20 J	6.16	119	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	4.37	87	75-123	
1,1,2-Trichloroethane	5.00	ND	4.55	91	80-120	
1,1-Dichloroethane	5.00	ND	5.61	112	74-120	
1,1-Dichloroethene	5.00	0.12 J	6.17	121	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	4.62	92	80-120	
1,2-Dichloroethane	5.00	ND	4.93	98	69-122	
1,2-Dichloropropane	5.00	ND	5.25	105	80-120	
2-Butanone (MEK)	62.6	ND	53.0	85	59-141	
2-Hexanone	62.6	ND	51.2	82	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	ND	51.5	82	55-140	
Acetone	62.6	ND	49.1	78	60-146	
Benzene	5.00	ND	5.36	107	80-120	
Bromochloromethane	5.00	ND	5.20	104	80-133	
Bromodichloromethane	5.00	ND	5.18	104	80-123	
Bromoform	5.00	ND	4.65	93	75-126	
Bromomethane	5.00	ND	5.21	104	63-120	
Carbon disulfide	5.00	ND	5.70	114	67-130	
Carbon tetrachloride	5.00	ND	6.24	125	64-141	
Chlorobenzene	5.00	ND	5.20	104	80-120	
Chloroethane	5.00	ND	5.57	111	63-120	
Chloroform	5.00	0.17 J	5.56	108	80-120	
Chloromethane	5.00	ND	4.71	94	80-120	
cis-1,2-Dichloroethene	5.00	0.64	6.19	111	80-122	
cis-1,3-Dichloropropene	5.00	ND	4.74	95	67-121	
Dibromochloromethane	5.00	ND	4.95	99	80-123	
Ethylbenzene	5.00	ND	5.17	103	80-120	
Methyl tert-butyl ether	5.00	ND	4.63	92	69-120	
Methylene Chloride	5.00	ND	5.00	100	80-120	
Styrene	5.00	ND	5.35	107	80-120	
Tetrachloroethene	5.00	3.9	9.51	112	80-120	
Toluene	5.00	ND	5.16	103	80-120	
trans-1,2-Dichloroethene	5.00	ND	5.68	114	80-122	
trans-1,3-Dichloropropene	5.00	ND	4.76	95	61-129	
Trichloroethene	5.00	0.87	6.12	105	80-120	
Vinyl chloride	5.00	ND	5.10	102	60-125	
Xylenes, Total	15.0	ND	16.2	108	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HS27X14.D

Lab ID: 410-189680-6 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	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.05	101	2	30	80-122	
1,1,1-Trichloroethane	5.00	6.05	117	2	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.40	88	1	30	75-123	
1,1,2-Trichloroethane	5.00	4.68	93	3	30	80-120	
1,1-Dichloroethane	5.00	5.54	111	1	30	74-120	
1,1-Dichloroethene	5.00	6.23	122	1	30	80-131	
1,2-Dibromoethane (EDB)	5.00	4.53	90	2	30	80-120	
1,2-Dichloroethane	5.00	4.97	99	1	30	69-122	
1,2-Dichloropropane	5.00	5.23	105	0	30	80-120	
2-Butanone (MEK)	62.6	51.8	83	2	30	59-141	
2-Hexanone	62.6	51.8	83	1	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	50.5	81	2	30	55-140	
Acetone	62.6	48.4	77	1	30	60-146	
Benzene	5.00	5.29	106	1	30	80-120	
Bromochloromethane	5.00	5.32	106	2	30	80-133	
Bromodichloromethane	5.00	5.18	103	0	30	80-123	
Bromoform	5.00	4.66	93	0	30	75-126	
Bromomethane	5.00	4.95	99	5	30	63-120	
Carbon disulfide	5.00	5.60	112	2	30	67-130	
Carbon tetrachloride	5.00	6.13	123	2	30	64-141	
Chlorobenzene	5.00	5.13	102	1	30	80-120	
Chloroethane	5.00	5.21	104	7	30	63-120	
Chloroform	5.00	5.36	104	4	30	80-120	
Chloromethane	5.00	4.49	90	5	30	80-120	
cis-1,2-Dichloroethene	5.00	5.96	106	4	30	80-122	
cis-1,3-Dichloropropene	5.00	4.81	96	2	30	67-121	
Dibromochloromethane	5.00	4.89	98	1	30	80-123	
Ethylbenzene	5.00	5.07	101	2	30	80-120	
Methyl tert-butyl ether	5.00	4.60	92	1	30	69-120	
Methylene Chloride	5.00	4.81	96	4	30	80-120	
Styrene	5.00	5.20	104	3	30	80-120	
Tetrachloroethene	5.00	9.13	105	4	30	80-120	
Toluene	5.00	5.10	102	1	30	80-120	
trans-1,2-Dichloroethene	5.00	5.58	111	2	30	80-122	
trans-1,3-Dichloropropene	5.00	4.73	95	1	30	61-129	
Trichloroethene	5.00	6.08	104	1	30	80-120	
Vinyl chloride	5.00	5.11	102	0	30	60-125	
Xylenes, Total	15.0	16.1	107	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Lab File ID: HS27X05.D Lab Sample ID: MB 410-556727/6

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

Instrument ID: 19094 Date Analyzed: 09/27/2024 20:01

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 410-556727/4	HS27X03.D	09/27/2024 19:19
HD-QC1-0/1-2	410-189680-14	HS27X06.D	09/27/2024 20:21
HD-COD-SW-6-0/1-0	410-189680-1	HS27X07.D	09/27/2024 20:42
HD-COD-SW-7-0/1-0	410-189680-2	HS27X08.D	09/27/2024 21:03
HD-COD-SW-8-0/1-0	410-189680-3	HS27X09.D	09/27/2024 21:24
HD-COD-SW-9-0/1-0	410-189680-4	HS27X10.D	09/27/2024 21:45
HD-COD-SW-13-0/1-0	410-189680-5	HS27X11.D	09/27/2024 22:05
HD-COD-SW-15-0/1-0	410-189680-6	HS27X12.D	09/27/2024 22:26
HD-COD-SW-15-0/1-0 MS MS	410-189680-6 MS	HS27X13.D	09/27/2024 22:47
HD-COD-SW-15-0/1-0 MSD MSD	410-189680-6 MSD	HS27X14.D	09/27/2024 23:07
HD-COD-SW-16-0/1-0	410-189680-7	HS27X15.D	09/27/2024 23:29
HD-COD-SW-26-0/1-0	410-189680-9	HS27X16.D	09/27/2024 23:49
HD-COD-SW-27-0/1-0	410-189680-10	HS27X17.D	09/28/2024 00:10
HD-COD-SW-28-0/1-0	410-189680-11	HS27X18.D	09/28/2024 00:31
HD-COD-SW-29-0/1-0	410-189680-12	HS27X19.D	09/28/2024 00:52
HD-COD-SW-17-0/1-0	410-189680-8	HS27X20.D	09/28/2024 01:13
HD-QC1-0/1-1	410-189680-13	HS27X22.D	09/28/2024 01:54

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Lab File ID: HL17T01.D BFB Injection Date: 07/17/2024

Instrument ID: 19094 BFB Injection Time: 13:29

Analysis Batch No.: 529291

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.9	
75	30.0 - 60.0 % of mass 95	47.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	1.0	(1.1) 1
174	Greater than 50% of mass 95	90.6	
175	5.0 - 9.0 % of mass 174	6.7	(7.4) 1
176	95.0 - 101.0 % of mass 174	88.5	(97.6) 1
177	5.0 - 9.0 % of mass 176	5.8	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-529291/3	HL17X02.D	07/17/2024	14:03
	IC 410-529291/4	HL17X03.D	07/17/2024	14:24
	IC 410-529291/5	HL17X04.D	07/17/2024	14:44
	IC 410-529291/6	HL17X05.D	07/17/2024	15:05
	IC 410-529291/7	HL17X06.D	07/17/2024	15:26
	IC 410-529291/8	HL17X07.D	07/17/2024	15:46
	IC 410-529291/9	HL17X08.D	07/17/2024	16:07
	IC 410-529291/13	HL17X12.D	07/17/2024	17:30
	IC 410-529291/14	HL17X13.D	07/17/2024	17:51
	IC 410-529291/15	HL17X14.D	07/17/2024	18:12
	IC 410-529291/16	HL17X15.D	07/17/2024	18:32
	IC 410-529291/17	HL17X16.D	07/17/2024	18:53
	ICIS 410-529291/18	HL17X17.D	07/17/2024	19:14
	IC 410-529291/19	HL17X18.D	07/17/2024	19:35
	ICV 410-529291/21	HL17X20.D	07/17/2024	20:16

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Lab File ID: HS27T01.D BFB Injection Date: 09/27/2024

Instrument ID: 19094 BFB Injection Time: 18:20

Analysis Batch No.: 556727

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.5	
75	30.0 - 60.0 % of mass 95	47.5	
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	0.9	(1.0) 1
174	Greater than 50% of mass 95	89.2	
175	5.0 - 9.0 % of mass 174	6.8	(7.6) 1
176	95.0 - 101.0 % of mass 174	86.4	(96.8) 1
177	5.0 - 9.0 % of mass 176	5.5	(6.3) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-556727/3	HS27X02.D	09/27/2024	18:59
	LCS 410-556727/4	HS27X03.D	09/27/2024	19:19
	MB 410-556727/6	HS27X05.D	09/27/2024	20:01
HD-QC1-0/1-2	410-189680-14	HS27X06.D	09/27/2024	20:21
HD-COD-SW-6-0/1-0	410-189680-1	HS27X07.D	09/27/2024	20:42
HD-COD-SW-7-0/1-0	410-189680-2	HS27X08.D	09/27/2024	21:03
HD-COD-SW-8-0/1-0	410-189680-3	HS27X09.D	09/27/2024	21:24
HD-COD-SW-9-0/1-0	410-189680-4	HS27X10.D	09/27/2024	21:45
HD-COD-SW-13-0/1-0	410-189680-5	HS27X11.D	09/27/2024	22:05
HD-COD-SW-15-0/1-0	410-189680-6	HS27X12.D	09/27/2024	22:26
HD-COD-SW-15-0/1-0 MS MS	410-189680-6 MS	HS27X13.D	09/27/2024	22:47
HD-COD-SW-15-0/1-0 MSD MSD	410-189680-6 MSD	HS27X14.D	09/27/2024	23:07
HD-COD-SW-16-0/1-0	410-189680-7	HS27X15.D	09/27/2024	23:29
HD-COD-SW-26-0/1-0	410-189680-9	HS27X16.D	09/27/2024	23:49
HD-COD-SW-27-0/1-0	410-189680-10	HS27X17.D	09/28/2024	0:10
HD-COD-SW-28-0/1-0	410-189680-11	HS27X18.D	09/28/2024	0:31
HD-COD-SW-29-0/1-0	410-189680-12	HS27X19.D	09/28/2024	0:52
HD-COD-SW-17-0/1-0	410-189680-8	HS27X20.D	09/28/2024	1:13
HD-QC1-0/1-1	410-189680-13	HS27X22.D	09/28/2024	1:54

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Sample No.: ICIS 410-529291/18 Date Analyzed: 07/17/2024 19:14

Instrument ID: 19094 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): HL17X17.D Heated Purge: (Y/N) N

Calibration ID: 63923

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		107980	3.97	2179990	7.47	1632214	11.02
UPPER LIMIT		215960	4.47	4359980	7.97	3264428	11.52
LOWER LIMIT		53990	3.47	1089995	6.97	816107	10.52
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-529291/21		104362	3.96	2170862	7.46	1625126	11.02
CCVIS 410-556727/3		84871	3.98	1625898	7.46	1268191	11.02

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Sample No.: ICIS 410-529291/18 Date Analyzed: 07/17/2024 19:14

Instrument ID: 19094 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): HL17X17.D Heated Purge: (Y/N) N

Calibration ID: 63923

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		922380	12.93				
UPPER LIMIT		1844760	13.43				
LOWER LIMIT		461190	12.43				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-529291/21		911210	12.93				
CCVIS 410-556727/3		754793	12.93				

DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Sample No.: CCVIS 410-556727/3 Date Analyzed: 09/27/2024 18:59

Instrument ID: 19094 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): HS27X02.D Heated Purge: (Y/N) N

Calibration ID: 63923

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		84871	3.98	1625898	7.46	1268191	11.02
UPPER LIMIT		169742	4.48	3251796	7.96	2536382	11.52
LOWER LIMIT		42436	3.48	812949	6.96	634096	10.52
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-556727/4		81841	3.98	1591120	7.46	1241547	11.02
MB 410-556727/6		82722	3.98	1538230	7.46	1191870	11.02
410-189680-14	HD-QC1-0/1-2	83640	3.97	1490610	7.46	1168967	11.02
410-189680-1	HD-COD-SW-6-0/1-0	80956	4.00	1534467	7.46	1169049	11.02
410-189680-2	HD-COD-SW-7-0/1-0	83196	4.00	1461977	7.46	1147544	11.02
410-189680-3	HD-COD-SW-8-0/1-0	74449	3.97	1487651	7.46	1145510	11.02
410-189680-4	HD-COD-SW-9-0/1-0	77435	3.96	1481135	7.46	1152492	11.02
410-189680-5	HD-COD-SW-13-0/1-0	79358	3.98	1458022	7.46	1139740	11.02
410-189680-6	HD-COD-SW-15-0/1-0	76069	3.96	1438980	7.46	1137416	11.02
410-189680-6 MS	HD-COD-SW-15-0/1-0 MS MS	86353	4.00	1528206	7.46	1203020	11.02
410-189680-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	88296	3.98	1542537	7.46	1218359	11.02
410-189680-7	HD-COD-SW-16-0/1-0	78096	4.00	1464367	7.46	1141786	11.02
410-189680-9	HD-COD-SW-26-0/1-0	78755	3.98	1504890	7.46	1171046	11.02
410-189680-10	HD-COD-SW-27-0/1-0	80676	3.96	1479578	7.46	1134401	11.02
410-189680-11	HD-COD-SW-28-0/1-0	80110	3.99	1441671	7.46	1130402	11.02
410-189680-12	HD-COD-SW-29-0/1-0	75311	3.98	1470947	7.46	1136899	11.02
410-189680-8	HD-COD-SW-17-0/1-0	78859	3.98	1452903	7.46	1142960	11.02
410-189680-13	HD-QC1-0/1-1	78425	3.98	1445182	7.46	1138606	11.02

TBAd10 = t-Butyl alcohol-d10 (IS)
TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Sample No.: CCVIS 410-556727/3 Date Analyzed: 09/27/2024 18:59

Instrument ID: 19094 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): HS27X02.D Heated Purge: (Y/N) N

Calibration ID: 63923

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		754793	12.93				
UPPER LIMIT		1509586	13.43				
LOWER LIMIT		377397	12.43				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-556727/4		727739	12.93				
MB 410-556727/6		656318	12.93				
410-189680-14	HD-QC1-0/1-2	629540	12.93				
410-189680-1	HD-COD-SW-6-0/1-0	639497	12.93				
410-189680-2	HD-COD-SW-7-0/1-0	633750	12.93				
410-189680-3	HD-COD-SW-8-0/1-0	637307	12.93				
410-189680-4	HD-COD-SW-9-0/1-0	634575	12.93				
410-189680-5	HD-COD-SW-13-0/1-0	644076	12.93				
410-189680-6	HD-COD-SW-15-0/1-0	619324	12.93				
410-189680-6 MS	HD-COD-SW-15-0/1-0 MS MS	702583	12.93				
410-189680-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	704010	12.93				
410-189680-7	HD-COD-SW-16-0/1-0	636973	12.93				
410-189680-9	HD-COD-SW-26-0/1-0	638020	12.93				
410-189680-10	HD-COD-SW-27-0/1-0	632778	12.93				
410-189680-11	HD-COD-SW-28-0/1-0	627976	12.93				
410-189680-12	HD-COD-SW-29-0/1-0	630396	12.93				
410-189680-8	HD-COD-SW-17-0/1-0	631529	12.93				
410-189680-13	HD-QC1-0/1-1	618572	12.93				

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.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0
Lab Sample ID: 410-189680-1

Matrix: Water
Lab File ID: HS27X07.D

Analysis Method: 8260D
Date Collected: 09/23/2024 11:50

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 20:42

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0
Lab Sample ID: 410-189680-1

Matrix: Water
Lab File ID: HS27X07.D

Analysis Method: 8260D
Date Collected: 09/23/2024 11:50

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 20:42

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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)	93		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X07.D
Lims ID: 410-189680-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 27-Sep-2024 20:42:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-008
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Sep-2024 02:01:55 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:37:27

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	5 Chloromethane	50		2.056				ND	7
	6 Vinyl chloride	62		2.166				ND	
	9 Bromomethane	94		2.477				ND	
	10 Chloroethane	64		2.538				ND	
	17 1,1-Dichloroethene	96		3.337				ND	
	19 Acetone	43		3.367				ND	
	23 Carbon disulfide	76		3.629				ND	7
	27 Methylene Chloride	84		3.952				ND	
*	28 t-Butyl alcohol-d10 (IS)	65	3.995	3.983	0.012	27	80956	50.0	
	32 Methyl tert-butyl ether	73		4.330				ND	
	33 trans-1,2-Dichloroethene	96		4.349				ND	
	36 1,1-Dichloroethane	63		5.007				ND	
	41 2-Butanone (MEK)	43		5.812				ND	
	42 cis-1,2-Dichloroethene	96		5.842				ND	7
	48 Chlorobromomethane	128		6.184				ND	
	50 Chloroform	83		6.336				ND	7
$	52 Dibromofluoromethane (Surr)	113	6.555	6.549	0.006	94	375807	10.0	
	53 1,1,1-Trichloroethane	97		6.562				ND	
	56 Carbon tetrachloride	117		6.781				ND	
$	58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.007	0.012	48	71236	9.28	
	59 Benzene	78		7.043				ND	
	60 1,2-Dichloroethane	62		7.116				ND	
*	64 Fluorobenzene (IS)	96	7.464	7.458	0.006	99	1534467	10.0	
	68 Trichloroethene	95		7.945				ND	7
	70 1,2-Dichloropropane	63		8.281				ND	
	76 Dichlorobromomethane	83		8.634				ND	
	80 cis-1,3-Dichloropropene	75		9.195				ND	
	82 4-Methyl-2-pentanone (MIBK)	43		9.372				ND	
$	83 Toluene-d8 (Surr)	98	9.518	9.518	0.000	93	1510393	9.93	
	84 Toluene	92	9.604	9.598	0.006	1	2531	0.0274	
	85 trans-1,3-Dichloropropene	75		9.872				ND	
	106 1,1,2-Trichloroethane	97		10.079				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166		10.171				ND	7
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.579				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1169049	10.0	
115 Chlorobenzene	112		11.048				ND	
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	
121 Styrene	104		11.603				ND	
122 Bromoform	173		11.762				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	94	553324	9.75	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	94	639497	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

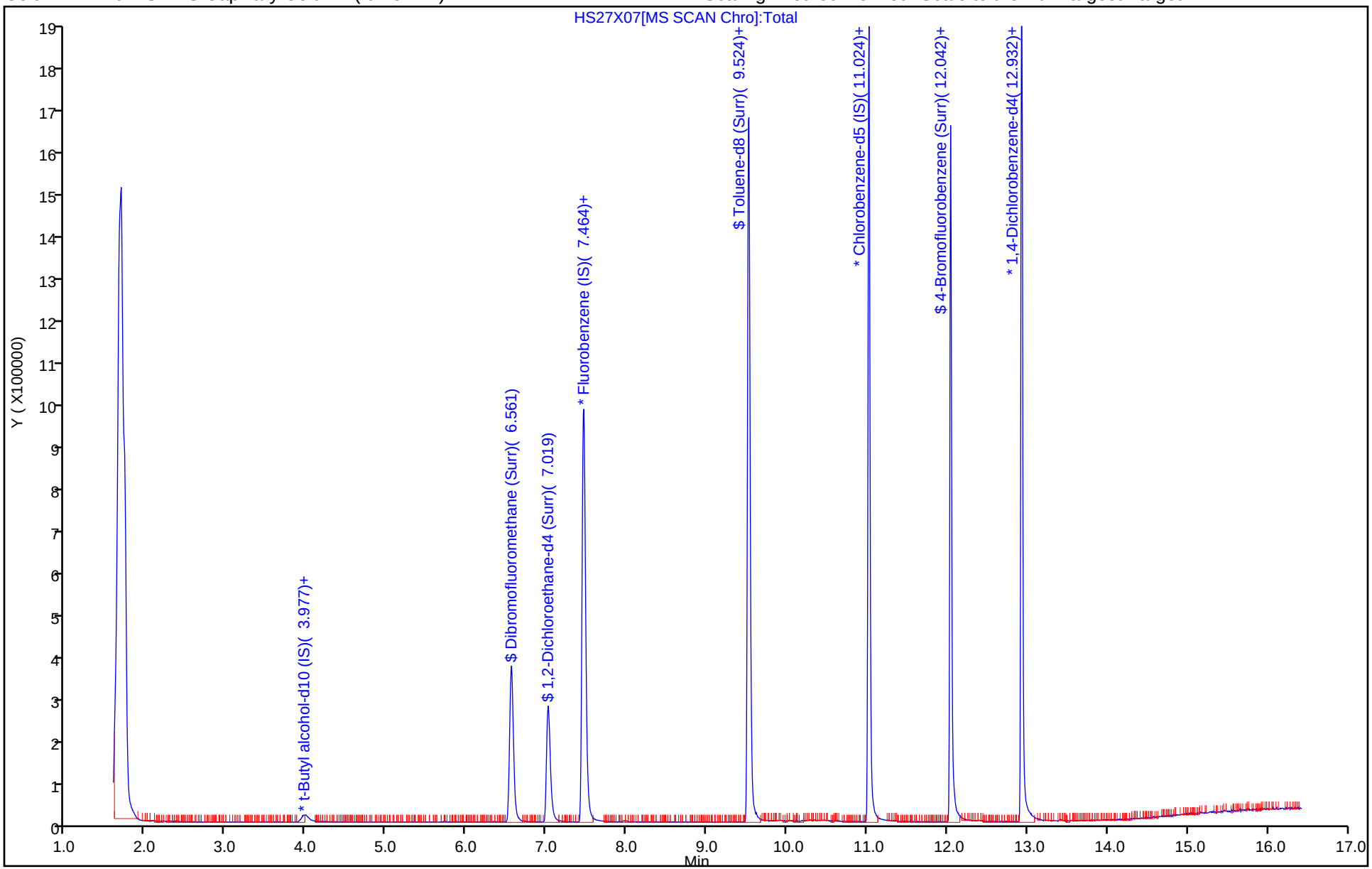
MSV_LLcentISS_00013 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 30-Sep-2024 08:37:28 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X07.D				
Injection Date:	27-Sep-2024 20:42:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	410-189680-A-1	Lab Sample ID:	410-189680-1	Worklist Smp#:	8
Client ID:	HD-COD-SW-6-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X07.D				
Lims ID:	410-189680-A-1				
Client ID:	HD-COD-SW-6-0/1-0				
Sample Type:	Client				
Inject. Date:	27-Sep-2024 20:42:30	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-008				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	28-Sep-2024 02:01:55	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:37:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.0	100.01
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.28	92.81
$ 83 Toluene-d8 (Surr)	10.0	9.93	99.34
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.75	97.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0
Lab Sample ID: 410-189680-2

Matrix: Water
Lab File ID: HS27X08.D

Analysis Method: 8260D
Date Collected: 09/23/2024 12:35

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 21:03

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0
Lab Sample ID: 410-189680-2

Matrix: Water
Lab File ID: HS27X08.D

Analysis Method: 8260D
Date Collected: 09/23/2024 12:35

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 21:03

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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	0.18	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)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X08.D
Lims ID: 410-189680-A-2
Client ID: HD-COD-SW-7-0/1-0
Sample Type: Client
Inject. Date: 27-Sep-2024 21:03:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-009
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Sep-2024 08:39:13 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:39:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.056				ND	7
6 Vinyl chloride	62		2.166				ND	
9 Bromomethane	94		2.477				ND	
10 Chloroethane	64		2.538				ND	
17 1,1-Dichloroethene	96		3.337				ND	
19 Acetone	43		3.367				ND	U
23 Carbon disulfide	76		3.629				ND	7
27 Methylene Chloride	84		3.952				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.995	3.983	0.012	22	83196	50.0	
32 Methyl tert-butyl ether	73		4.330				ND	
33 trans-1,2-Dichloroethene	96		4.349				ND	
36 1,1-Dichloroethane	63		5.007				ND	
41 2-Butanone (MEK)	43		5.812				ND	
42 cis-1,2-Dichloroethene	96	5.879	5.842	0.037	81	3674	0.1046	
48 Chlorobromomethane	128		6.184				ND	
50 Chloroform	83	6.348	6.336	0.012	86	5163	0.0882	
$ 52 Dibromofluoromethane (Surr)	113	6.561	6.549	0.012	93	371092	10.4	
53 1,1,1-Trichloroethane	97		6.562				ND	
56 Carbon tetrachloride	117		6.781				ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.007	0.012	47	72138	9.86	
59 Benzene	78		7.043				ND	7
60 1,2-Dichloroethane	62		7.116				ND	
* 64 Fluorobenzene (IS)	96	7.464	7.458	0.006	99	1461977	10.0	
68 Trichloroethene	95	7.958	7.945	0.013	94	6537	0.1843	M
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	
80 cis-1,3-Dichloropropene	75		9.195				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.372				ND	
$ 83 Toluene-d8 (Surr)	98	9.524	9.518	0.006	93	1499769	10.0	
84 Toluene	92		9.598				ND	7
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.183	10.171	0.012	90	2430	0.0576	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.579				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1147544	10.0	
115 Chlorobenzene	112		11.048				ND	
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	
120 o-Xylene	106		11.591				ND	7
121 Styrene	104		11.603				ND	
122 Bromoform	173		11.762				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	94	539454	9.68	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	94	633750	10.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected

Reagents:

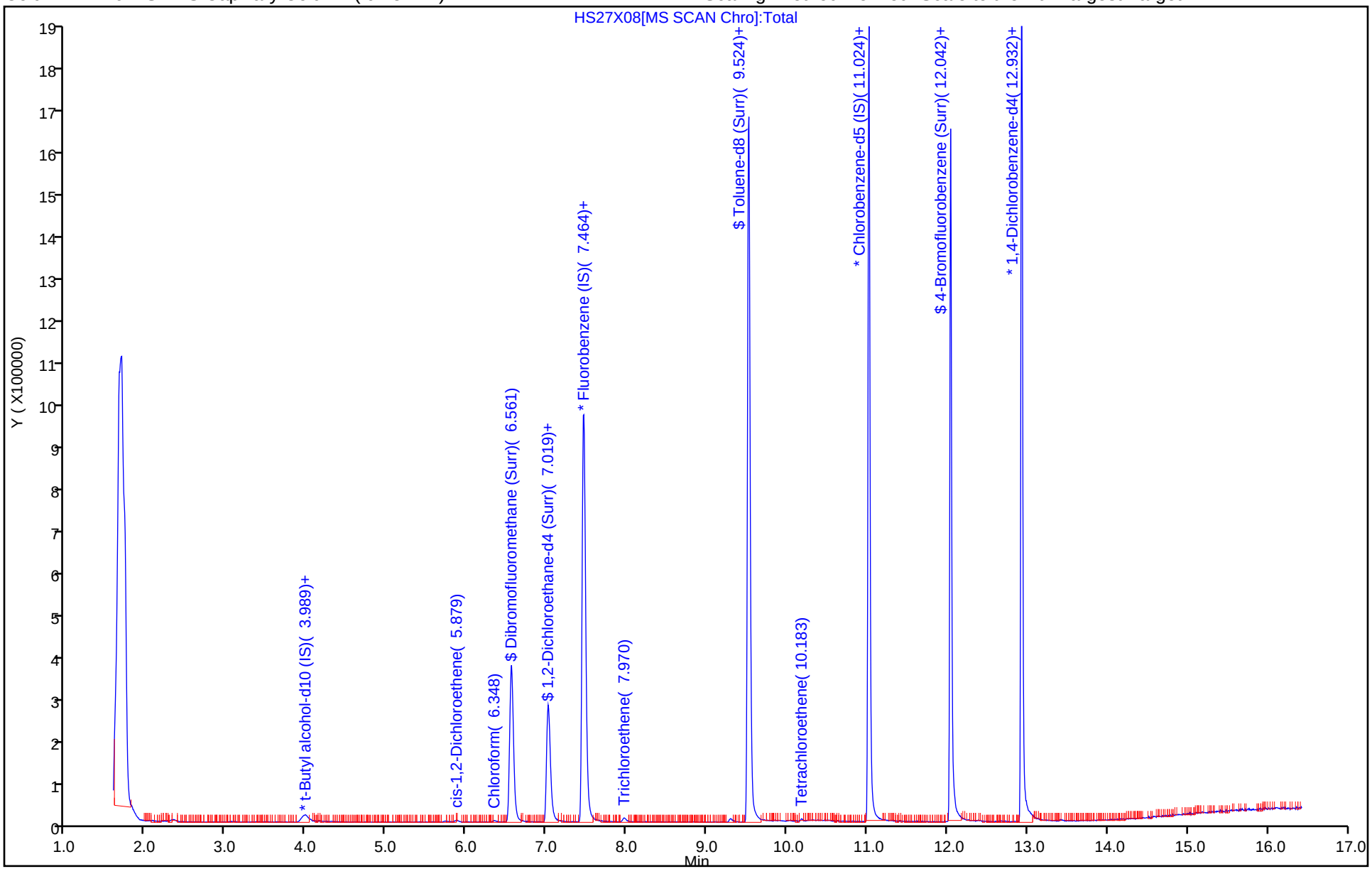
MSV_LLcentISS_00013 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 30-Sep-2024 08:39:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X08.D				
Injection Date:	27-Sep-2024 21:03:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	410-189680-A-2	Lab Sample ID:	410-189680-2	Worklist Smp#:	9
Client ID:	HD-COD-SW-7-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X08.D				
Lims ID:	410-189680-A-2				
Client ID:	HD-COD-SW-7-0/1-0				
Sample Type:	Client				
Inject. Date:	27-Sep-2024 21:03:30	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-009				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Sep-2024 08:39:13	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:39:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.4	103.65
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.86	98.64
$ 83 Toluene-d8 (Surr)	10.0	10.0	100.49
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.68	96.80

Report Date: 30-Sep-2024 08:39:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X08.D

Injection Date: 27-Sep-2024 21:03:30 Instrument ID: 19094

Lims ID: 410-189680-A-2 Lab Sample ID: 410-189680-2

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

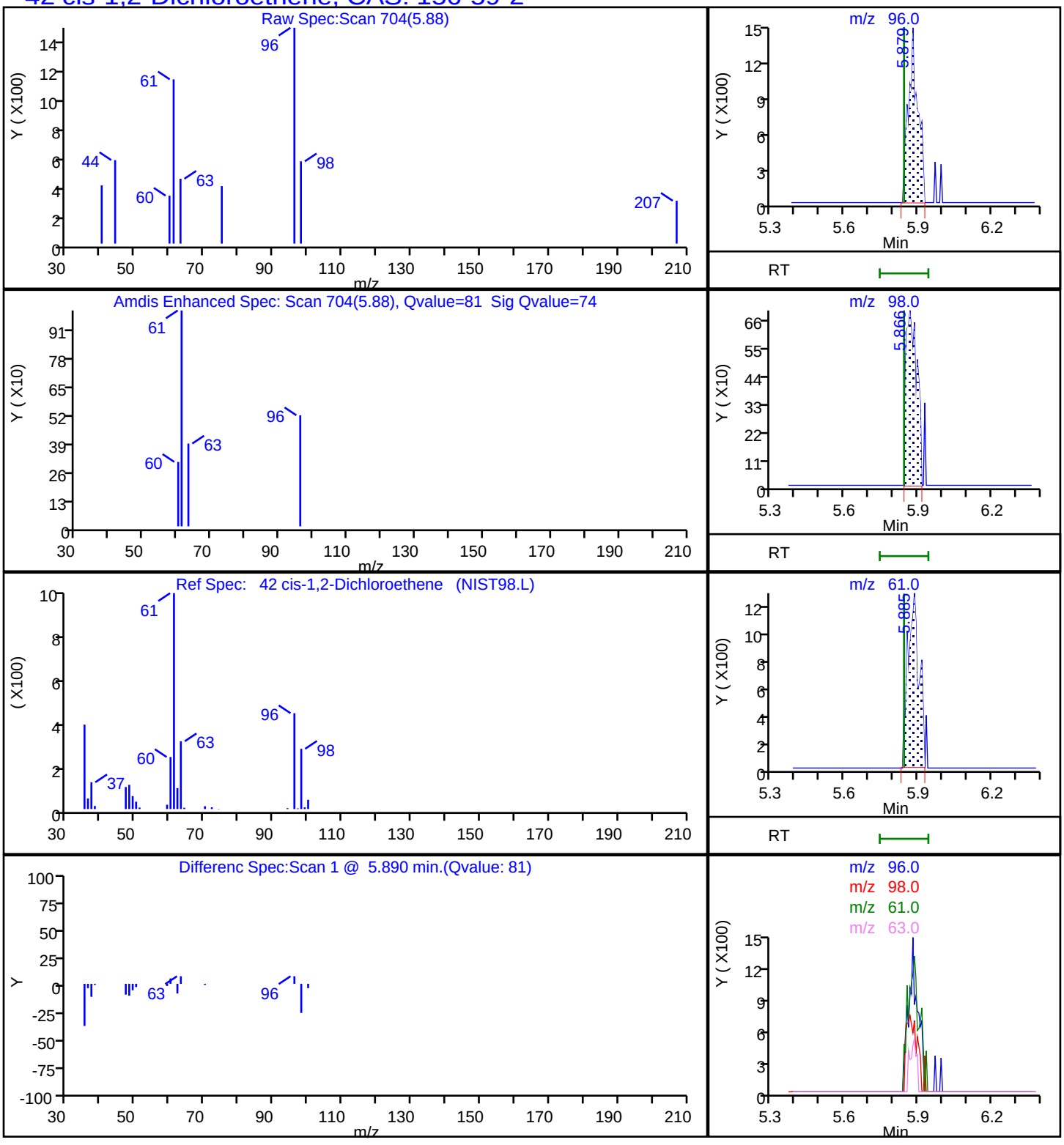
Operator ID: gaw91131 ALS Bottle#: 8 Worklist Smp#: 9

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_19094_25mL Limit Group: MSV - 8260C_D

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

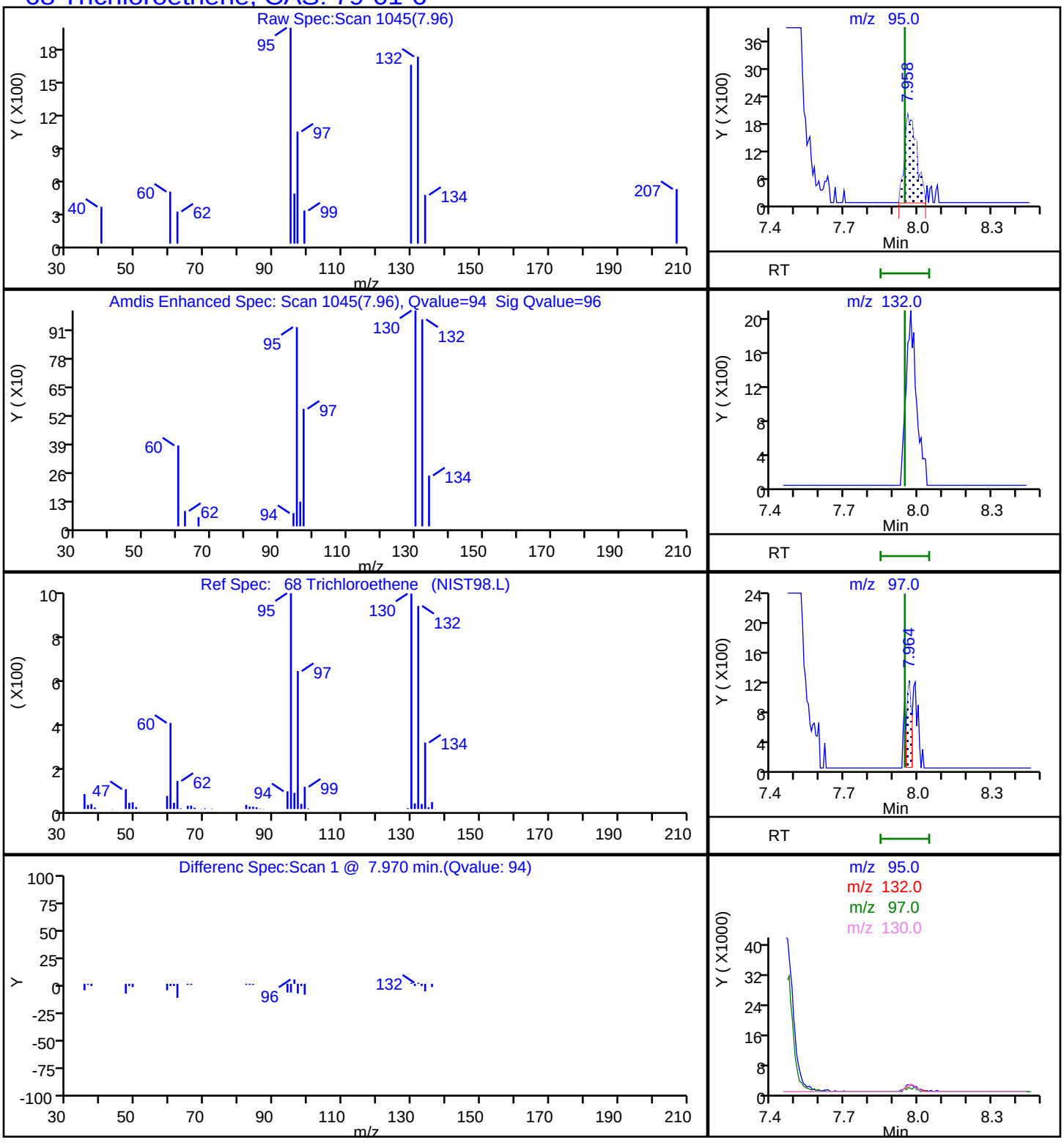
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X08.D				
Injection Date:	27-Sep-2024 21:03:30	Instrument ID:	19094		
Lims ID:	410-189680-A-2	Lab Sample ID:	410-189680-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



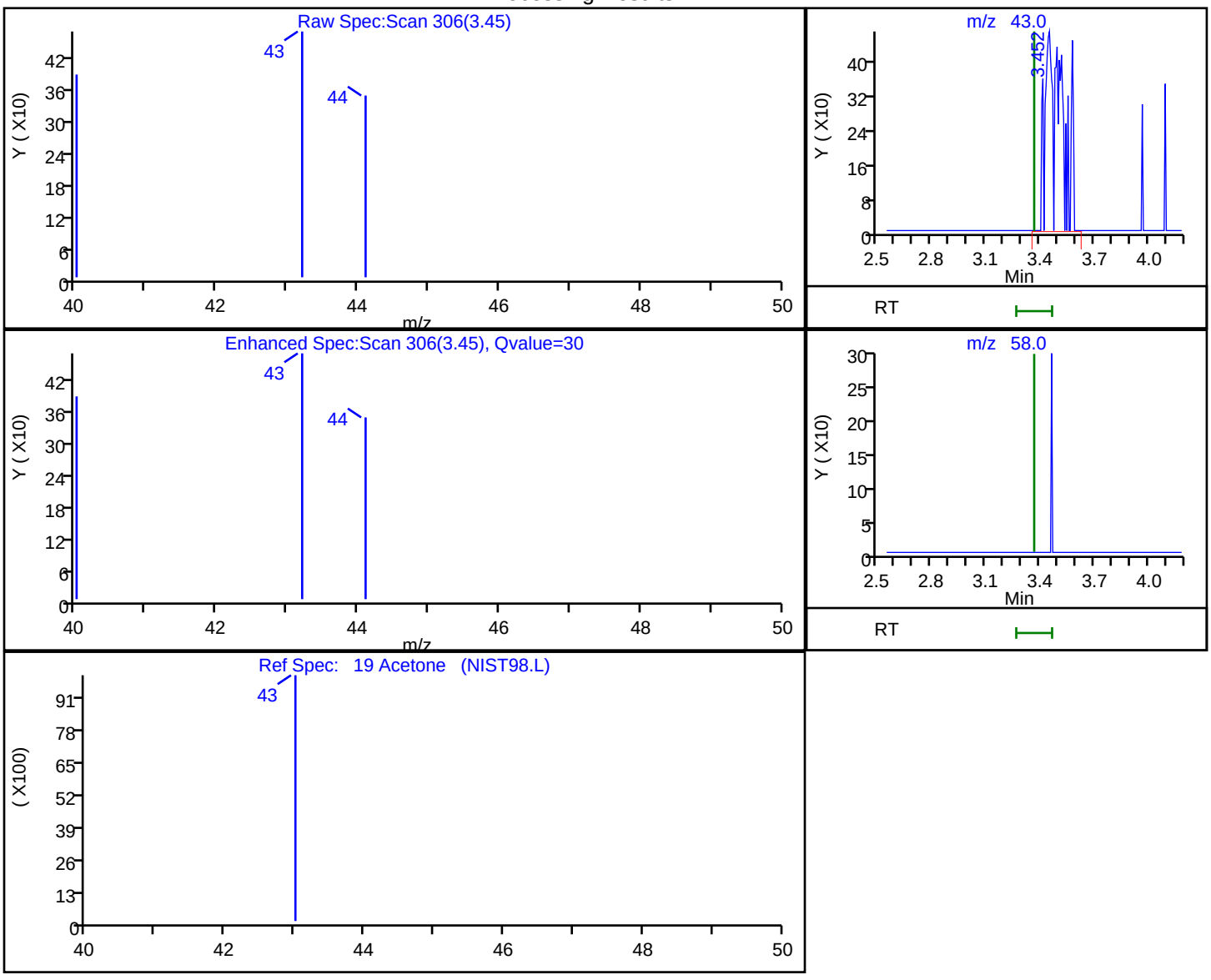
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X08.D				
Injection Date:	27-Sep-2024 21:03:30	Instrument ID:	19094		
Lims ID:	410-189680-A-2	Lab Sample ID:	410-189680-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.45	43.00	3105	0.701192
3.37	58.00	0	

Reviewer: FQ4L, 30-Sep-2024 08:38:02 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

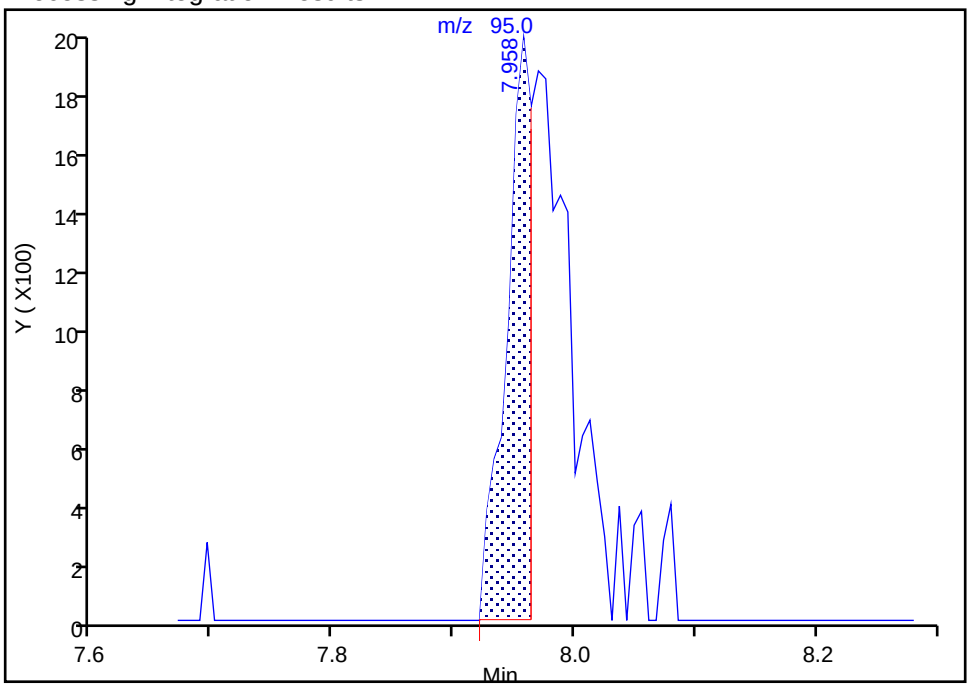
Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X08.D				
Injection Date:	27-Sep-2024 21:03:30	Instrument ID:	19094		
Lims ID:	410-189680-A-2	Lab Sample ID:	410-189680-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

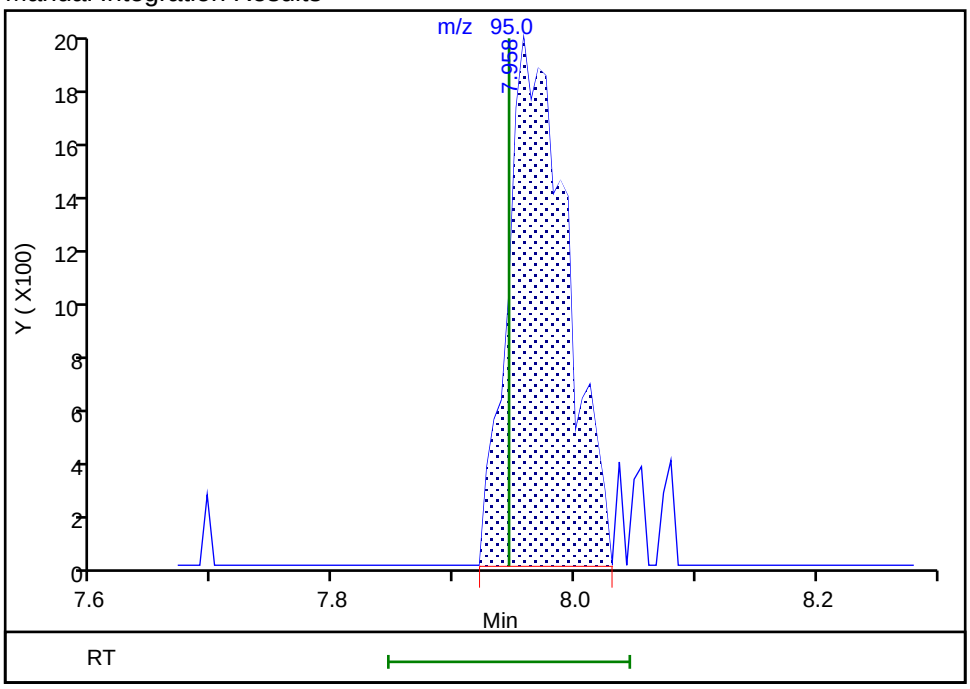
Processing Integration Results

RT: 7.96
Area: 2828
Amount: 0.079742
Amount Units: ug/l



Manual Integration Results

RT: 7.96
Area: 6537
Amount: 0.184325
Amount Units: ug/l



Reviewer: FQ4L, 30-Sep-2024 08:38:25 07:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0
Lab Sample ID: 410-189680-3

Matrix: Water
Lab File ID: HS27X09.D

Analysis Method: 8260D
Date Collected: 09/23/2024 10:40

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 21:24

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.10	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.68		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0
Lab Sample ID: 410-189680-3

Matrix: Water
Lab File ID: HS27X09.D

Analysis Method: 8260D
Date Collected: 09/23/2024 10:40

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 21:24

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X09.D
Lims ID: 410-189680-A-3
Client ID: HD-COD-SW-8-0/1-0
Sample Type: Client
Inject. Date: 27-Sep-2024 21:24:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-010
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Sep-2024 08:40:58 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:40:58

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	5 Chloromethane	50		2.056				ND	7
	6 Vinyl chloride	62		2.166				ND	7
	9 Bromomethane	94		2.477				ND	
	10 Chloroethane	64		2.538				ND	
	17 1,1-Dichloroethene	96		3.337				ND	
	19 Acetone	43		3.367				ND	
	23 Carbon disulfide	76		3.629				ND	7
	27 Methylene Chloride	84		3.952				ND	
*	28 t-Butyl alcohol-d10 (IS)	65	3.970	3.983	-0.013	22	74449	50.0	
	32 Methyl tert-butyl ether	73		4.330				ND	
	33 trans-1,2-Dichloroethene	96		4.349				ND	
	36 1,1-Dichloroethane	63		5.007				ND	
	41 2-Butanone (MEK)	43		5.812				ND	
	42 cis-1,2-Dichloroethene	96	5.885	5.842	0.043	1	3598	0.1006	
	48 Chlorobromomethane	128		6.184				ND	
	50 Chloroform	83	6.354	6.336	0.018	20	3419	0.0574	
$	52 Dibromofluoromethane (Surr)	113	6.561	6.549	0.012	94	373902	10.3	
	53 1,1,1-Trichloroethane	97		6.562				ND	7
	56 Carbon tetrachloride	117		6.781				ND	
$	58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.007	0.012	48	71770	9.64	
	59 Benzene	78		7.043				ND	7
	60 1,2-Dichloroethane	62		7.116				ND	
*	64 Fluorobenzene (IS)	96	7.464	7.458	0.006	99	1487651	10.0	
	68 Trichloroethene	95	7.970	7.945	0.025	92	5439	0.1507	M
	70 1,2-Dichloropropane	63		8.281				ND	
	76 Dichlorobromomethane	83		8.634				ND	
	80 cis-1,3-Dichloropropene	75		9.195				ND	
	82 4-Methyl-2-pentanone (MIBK)	43		9.372				ND	
$	83 Toluene-d8 (Surr)	98	9.524	9.518	0.006	93	1508319	10.1	
	84 Toluene	92	9.610	9.598	0.012	1	2492	0.0275	
	85 trans-1,3-Dichloropropene	75		9.872				ND	
	106 1,1,2-Trichloroethane	97		10.079				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.177	10.171	0.006	97	28562	0.6788	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.579				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1145510	10.0	
115 Chlorobenzene	112		11.048				ND	
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	
121 Styrene	104		11.603				ND	
122 Bromoform	173		11.762				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	94	537549	9.66	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	94	637307	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

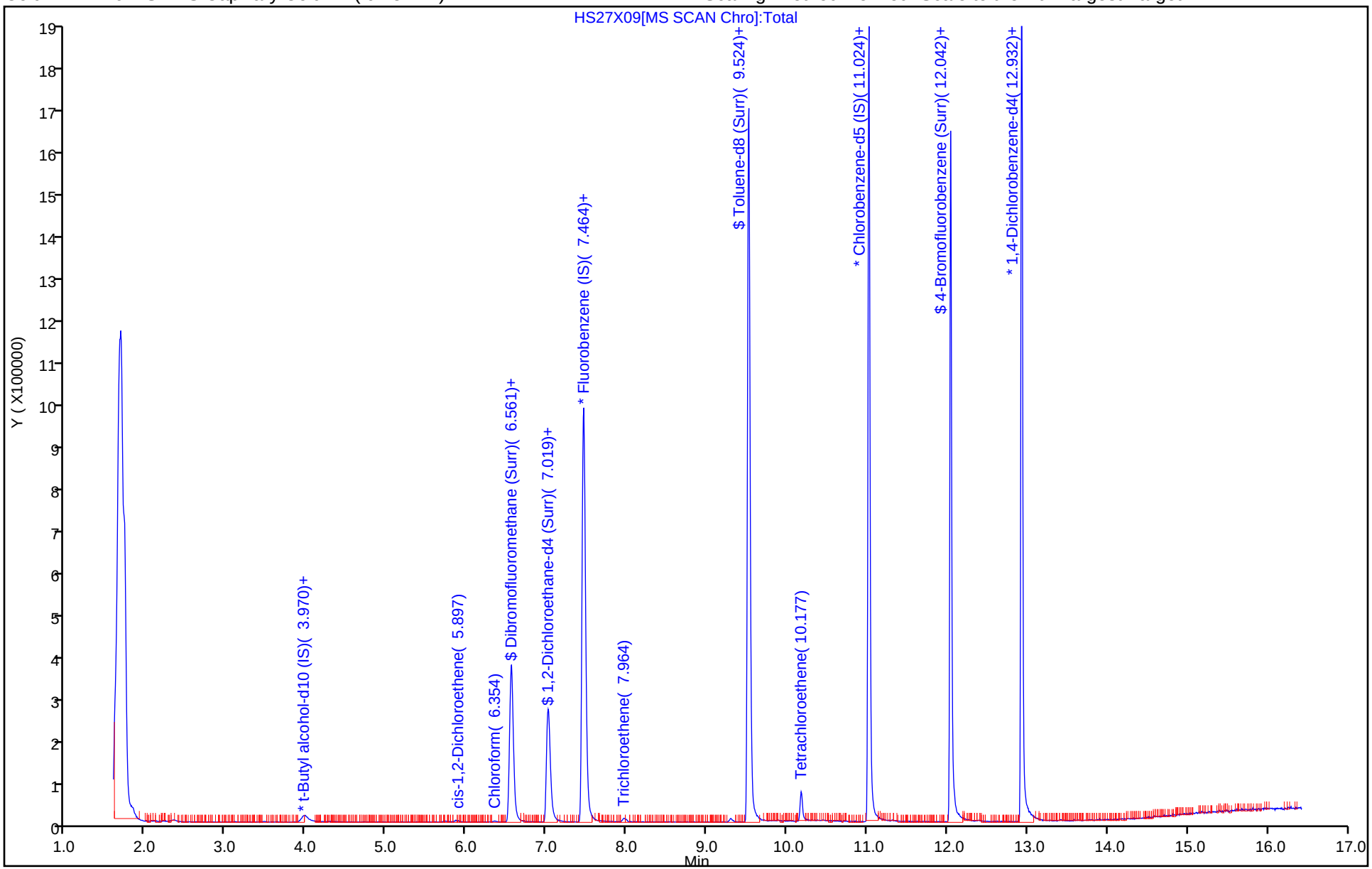
MSV_LLcentISS_00013 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 30-Sep-2024 08:40:58 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X09.D				
Injection Date:	27-Sep-2024 21:24:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	410-189680-A-3	Lab Sample ID:	410-189680-3	Worklist Smp#:	10
Client ID:	HD-COD-SW-8-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X09.D				
Lims ID:	410-189680-A-3				
Client ID:	HD-COD-SW-8-0/1-0				
Sample Type:	Client				
Inject. Date:	27-Sep-2024 21:24:30	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-010				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Sep-2024 08:40:58	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:40:58

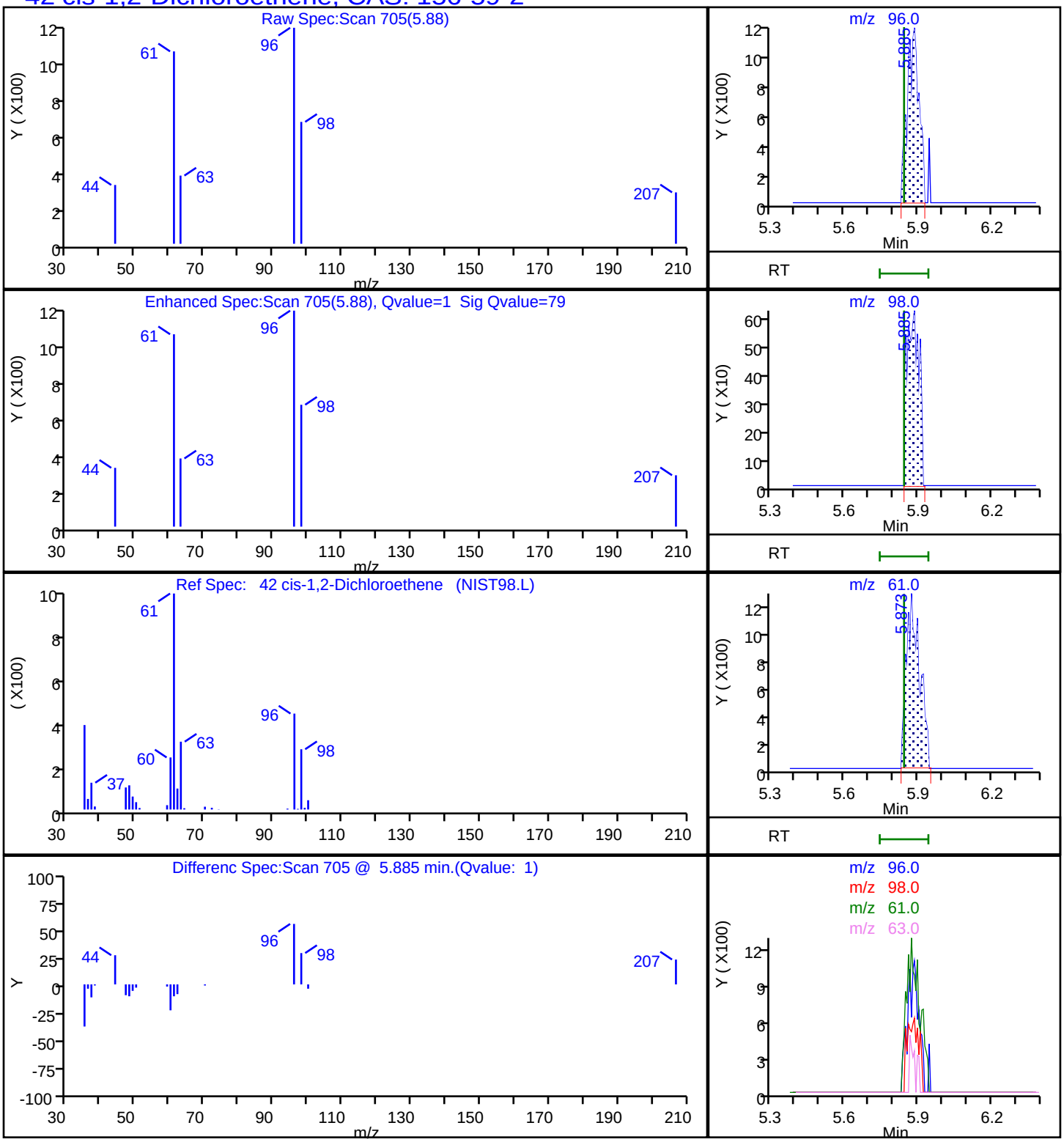
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	102.63
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.64	96.44
$ 83 Toluene-d8 (Surr)	10.0	10.1	101.25
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.66	96.63

Report Date: 30-Sep-2024 08:40:58 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X09.D				
Injection Date:	27-Sep-2024 21:24:30	Instrument ID:	19094		
Lims ID:	410-189680-A-3	Lab Sample ID:	410-189680-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

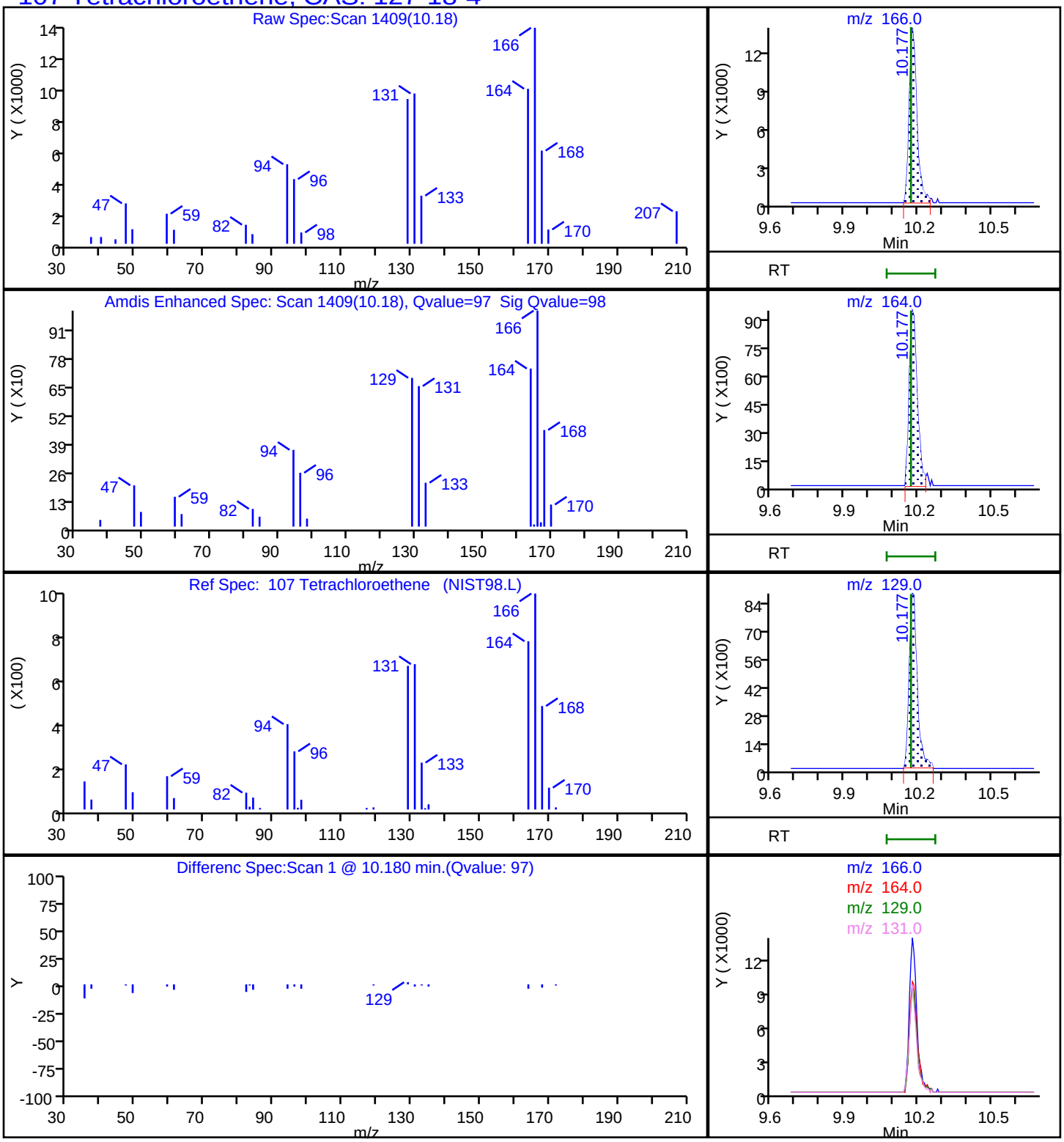
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X09.D				
Injection Date:	27-Sep-2024 21:24:30	Instrument ID:	19094		
Lims ID:	410-189680-A-3	Lab Sample ID:	410-189680-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

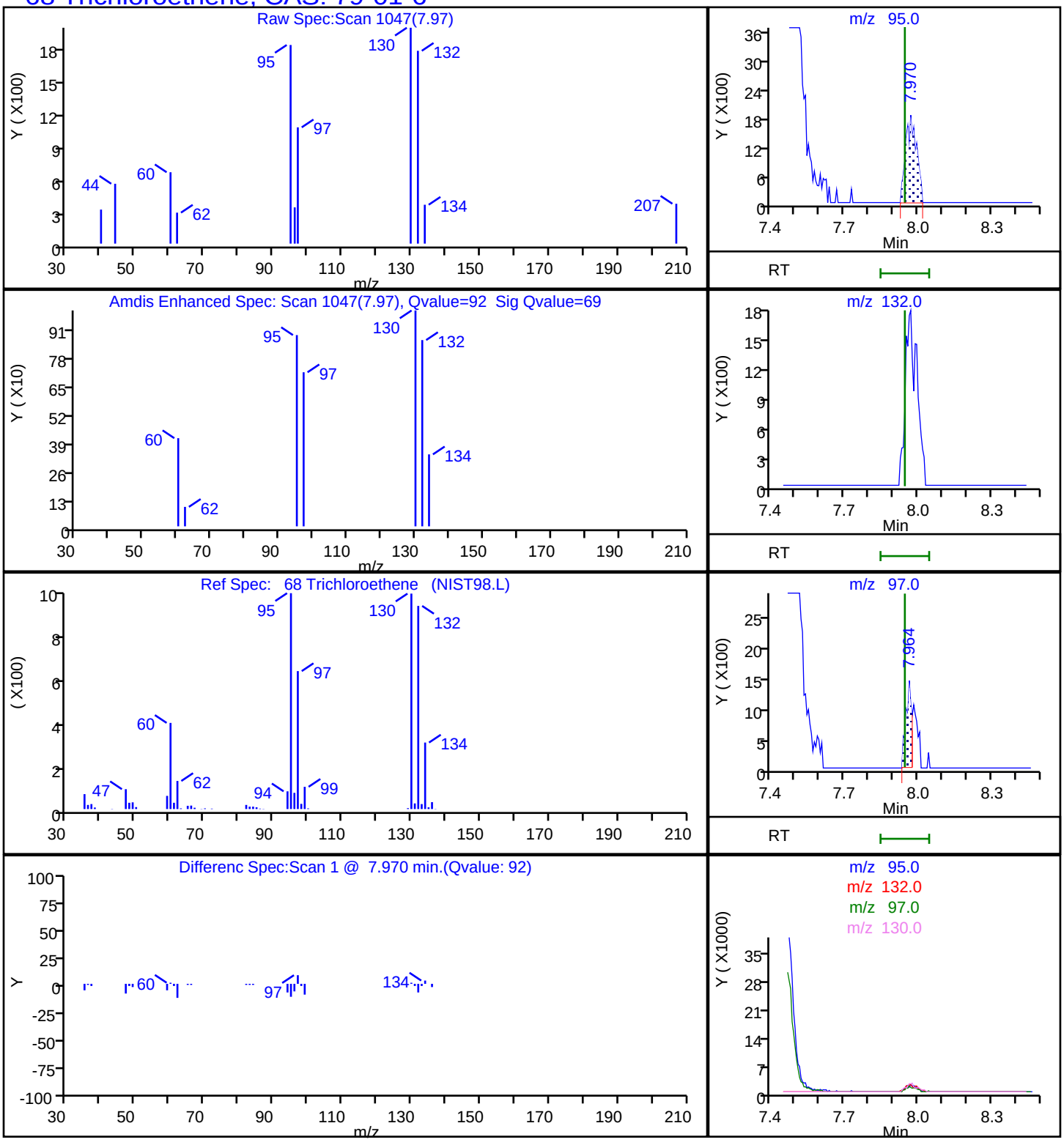
107 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X09.D				
Injection Date:	27-Sep-2024 21:24:30	Instrument ID:	19094		
Lims ID:	410-189680-A-3	Lab Sample ID:	410-189680-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

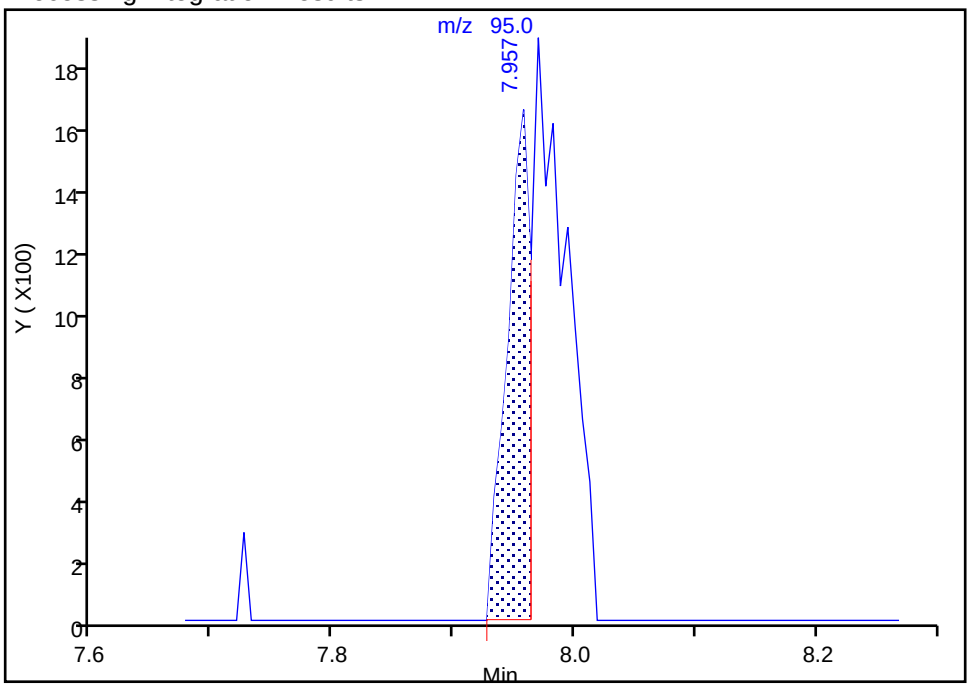
Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X09.D				
Injection Date:	27-Sep-2024 21:24:30	Instrument ID:	19094		
Lims ID:	410-189680-A-3	Lab Sample ID:	410-189680-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

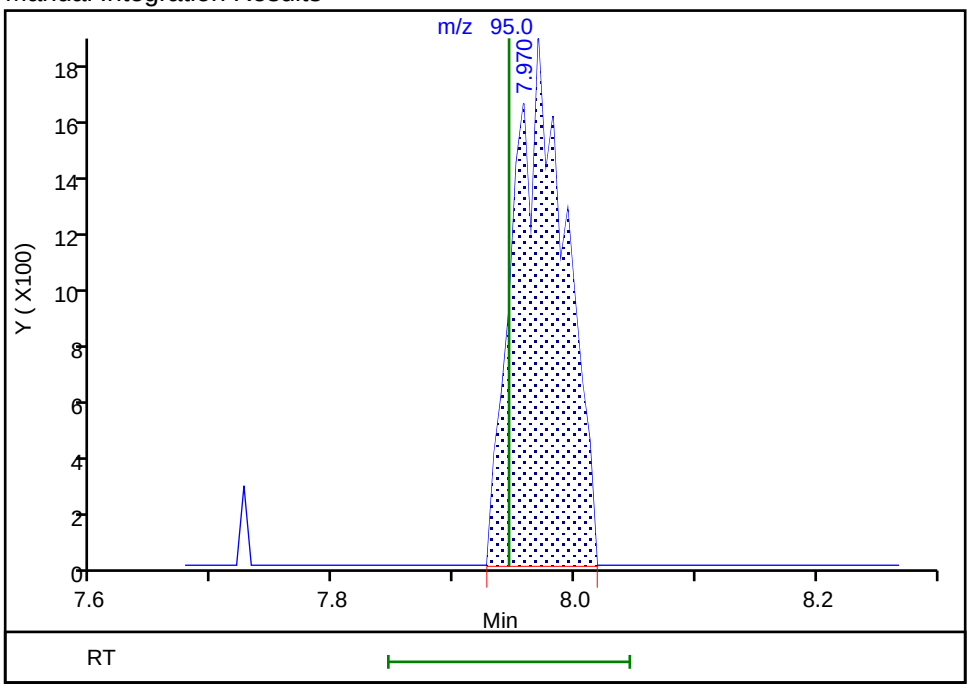
Processing Integration Results

RT: 7.96
Area: 2175
Amount: 0.060270
Amount Units: ug/l



Manual Integration Results

RT: 7.97
Area: 5439
Amount: 0.150718
Amount Units: ug/l



Reviewer: FQ4L, 30-Sep-2024 08:40:20 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.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0
Lab Sample ID: 410-189680-4

Matrix: Water
Lab File ID: HS27X10.D

Analysis Method: 8260D
Date Collected: 09/23/2024 14:15

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 21:45

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.10	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	0.21	J	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0
Lab Sample ID: 410-189680-4

Matrix: Water
Lab File ID: HS27X10.D

Analysis Method: 8260D
Date Collected: 09/23/2024 14:15

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 21:45

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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)	94		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X10.D
Lims ID: 410-189680-A-4
Client ID: HD-COD-SW-9-0/1-0
Sample Type: Client
Inject. Date: 27-Sep-2024 21:45:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-011
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Sep-2024 08:42:28 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:42:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.056				ND	
6 Vinyl chloride	62		2.166				ND	
9 Bromomethane	94		2.477				ND	
10 Chloroethane	64		2.538				ND	
17 1,1-Dichloroethene	96		3.337				ND	
19 Acetone	43		3.367				ND	U
23 Carbon disulfide	76		3.629				ND	7
27 Methylene Chloride	84		3.952				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.964	3.983	-0.019	22	77435	50.0	
32 Methyl tert-butyl ether	73		4.330				ND	
33 trans-1,2-Dichloroethene	96		4.349				ND	
36 1,1-Dichloroethane	63		5.007				ND	
41 2-Butanone (MEK)	43		5.812				ND	
42 cis-1,2-Dichloroethene	96	5.885	5.842	0.043	1	1805	0.0507	
48 Chlorobromomethane	128		6.184				ND	
50 Chloroform	83	6.354	6.336	0.018	89	5937	0.1001	
$ 52 Dibromofluoromethane (Surr)	113	6.549	6.549	0.000	94	374417	10.3	
53 1,1,1-Trichloroethane	97		6.562				ND	
56 Carbon tetrachloride	117		6.781				ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.007	0.012	48	70006	9.45	
59 Benzene	78		7.043				ND	7
60 1,2-Dichloroethane	62		7.116				ND	
* 64 Fluorobenzene (IS)	96	7.458	7.458	0.000	99	1481135	10.0	
68 Trichloroethene	95	7.982	7.945	0.037	85	2734	0.0761	M
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	
80 cis-1,3-Dichloropropene	75		9.195				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.372				ND	
$ 83 Toluene-d8 (Surr)	98	9.518	9.518	0.000	93	1510497	10.1	
84 Toluene	92	9.616	9.598	0.018	90	4456	0.0489	
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.177	10.171	0.006	95	8979	0.2121	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.579				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1152492	10.0	
115 Chlorobenzene	112		11.048				ND	
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	7
121 Styrene	104		11.603				ND	7
122 Bromoform	173		11.762				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	94	541446	9.67	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	94	634575	10.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected

Reagents:

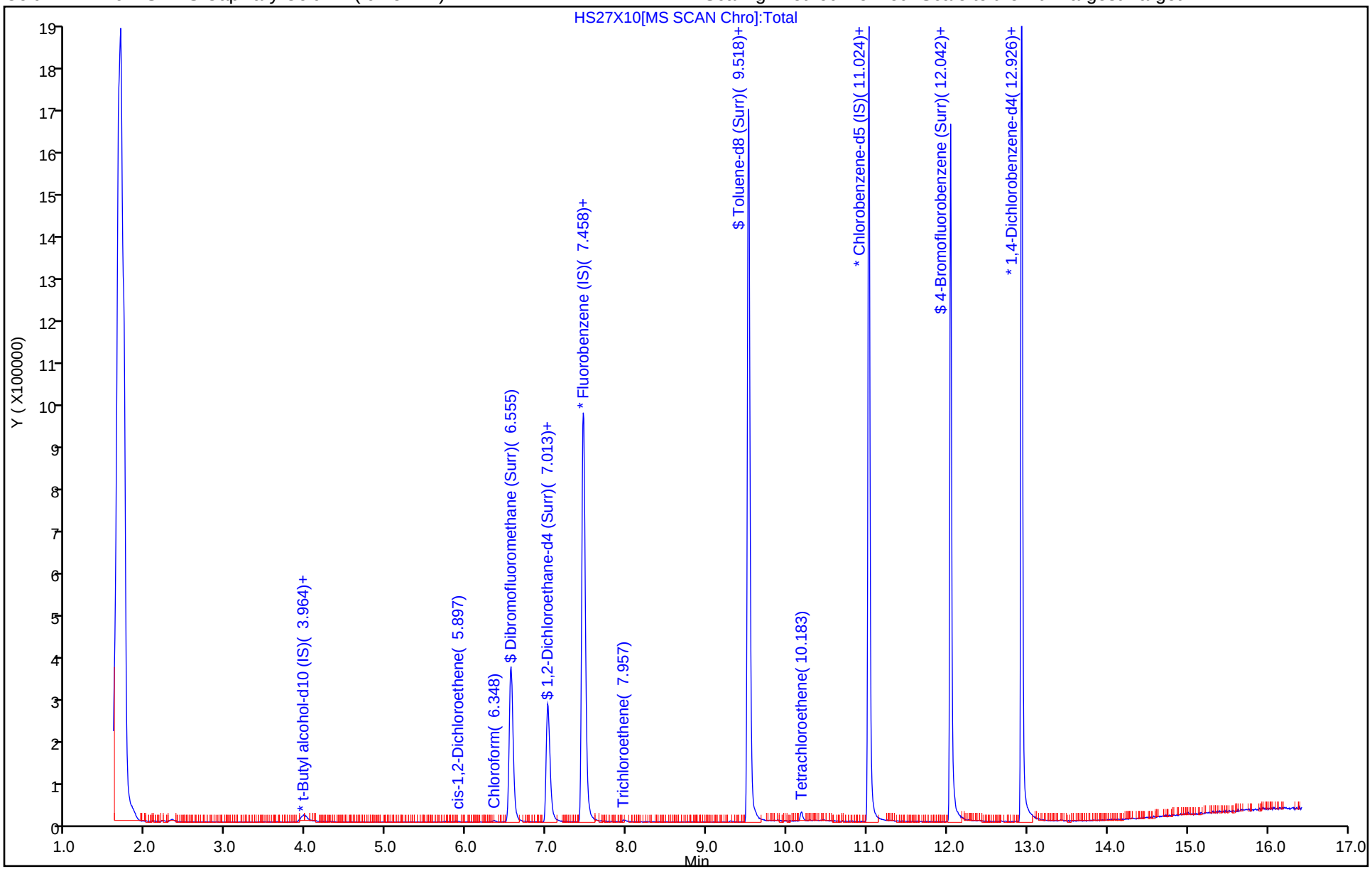
MSV_LLcentISS_00013 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 30-Sep-2024 08:42:29 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X10.D				
Injection Date:	27-Sep-2024 21:45:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	410-189680-A-4	Lab Sample ID:	410-189680-4	Worklist Smp#:	11
Client ID:	HD-COD-SW-9-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X10.D				
Lims ID:	410-189680-A-4				
Client ID:	HD-COD-SW-9-0/1-0				
Sample Type:	Client				
Inject. Date:	27-Sep-2024 21:45:30	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-011				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Sep-2024 08:42:28	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				

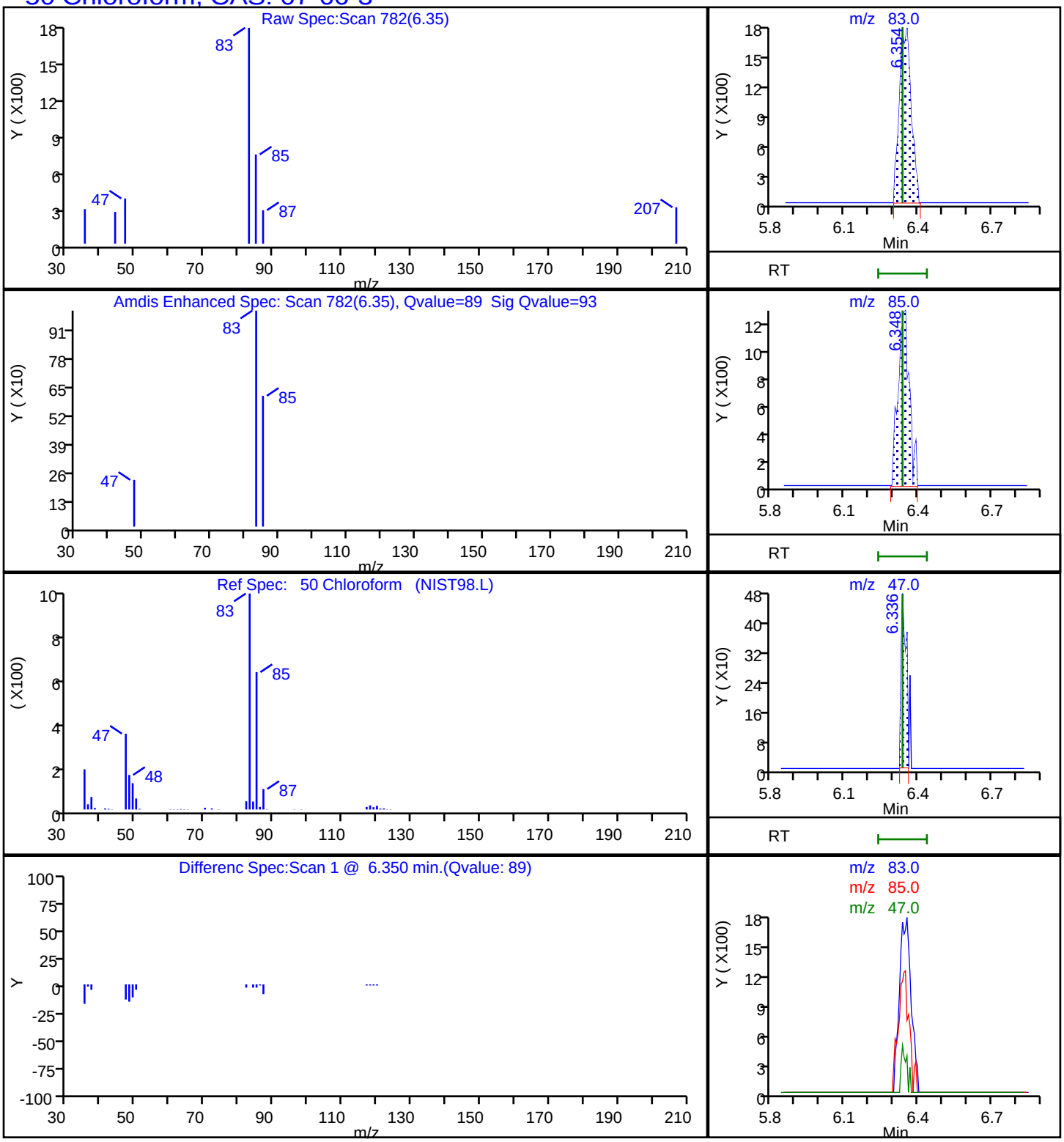
First Level Reviewer: FQ4L Date: 30-Sep-2024 08:42:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.23
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.45	94.49
$ 83 Toluene-d8 (Surr)	10.0	10.1	100.78
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.67	96.74

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X10.D				
Injection Date:	27-Sep-2024 21:45:30	Instrument ID:	19094		
Lims ID:	410-189680-A-4	Lab Sample ID:	410-189680-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

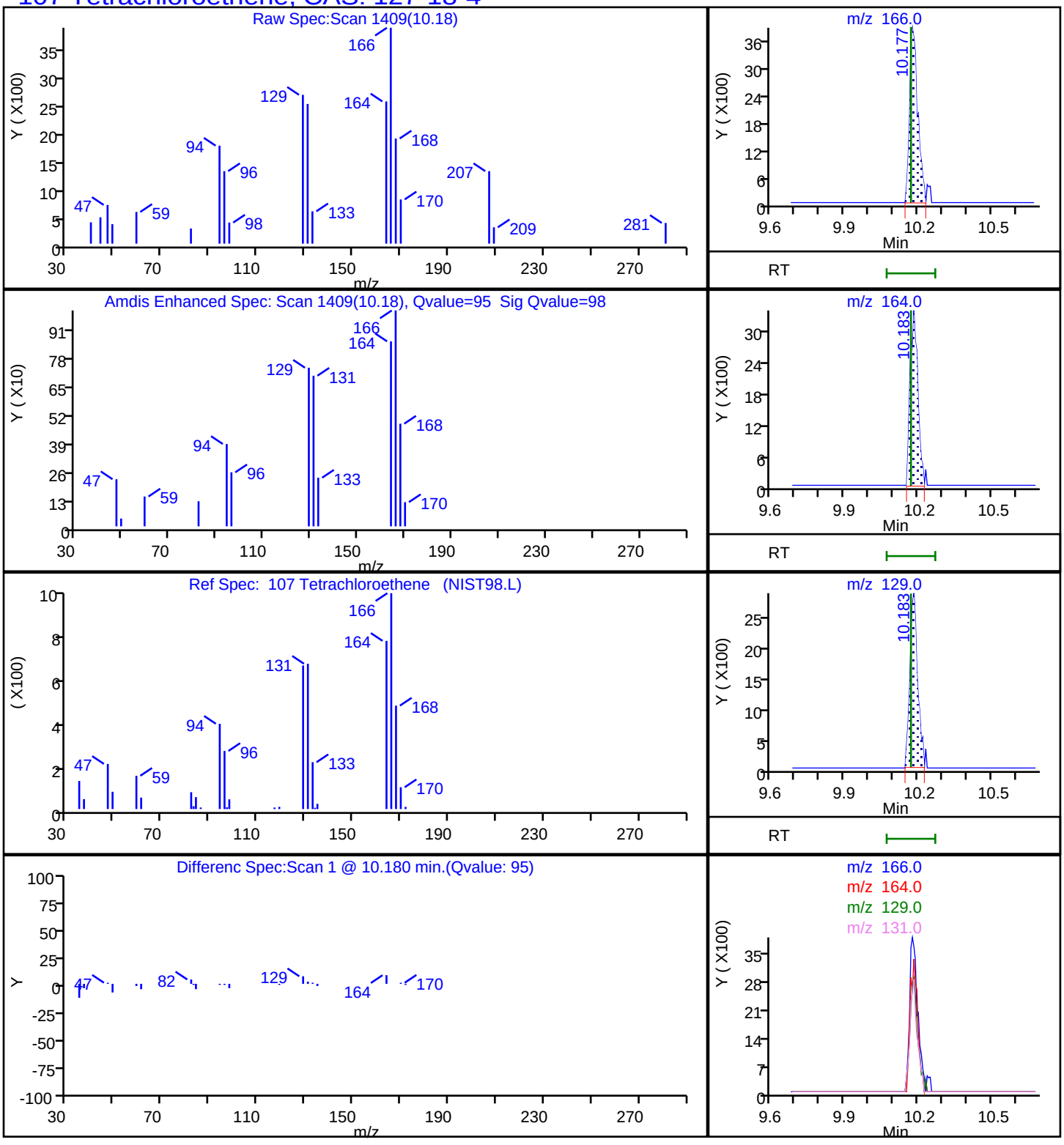
50 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X10.D				
Injection Date:	27-Sep-2024 21:45:30	Instrument ID:	19094		
Lims ID:	410-189680-A-4	Lab Sample ID:	410-189680-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

107 Tetrachloroethene, CAS: 127-18-4



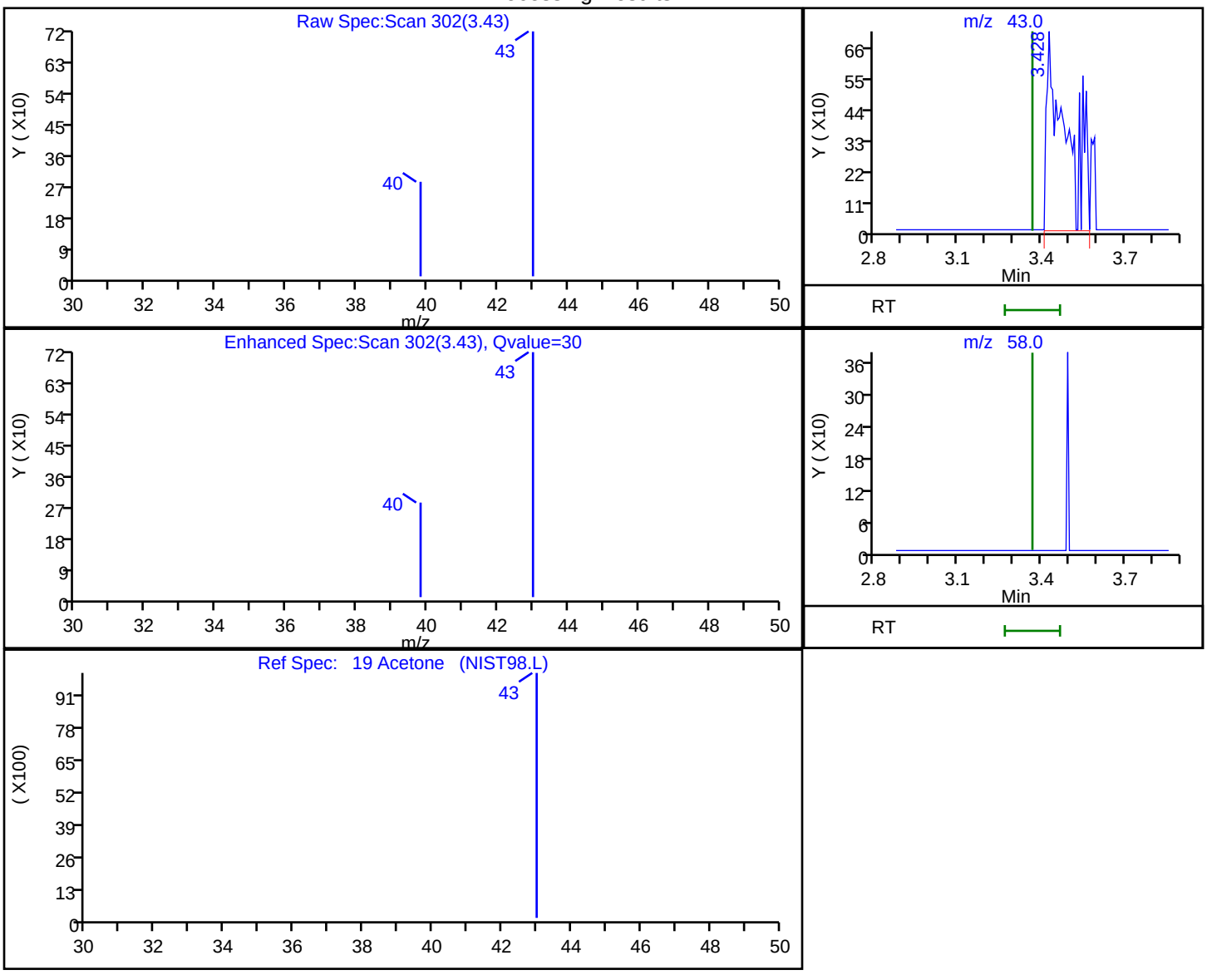
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X10.D				
Injection Date:	27-Sep-2024 21:45:30	Instrument ID:	19094		
Lims ID:	410-189680-A-4	Lab Sample ID:	410-189680-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.43	43.00	3505	0.850410
3.37	58.00	0	

Reviewer: FQ4L, 30-Sep-2024 08:41:24 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

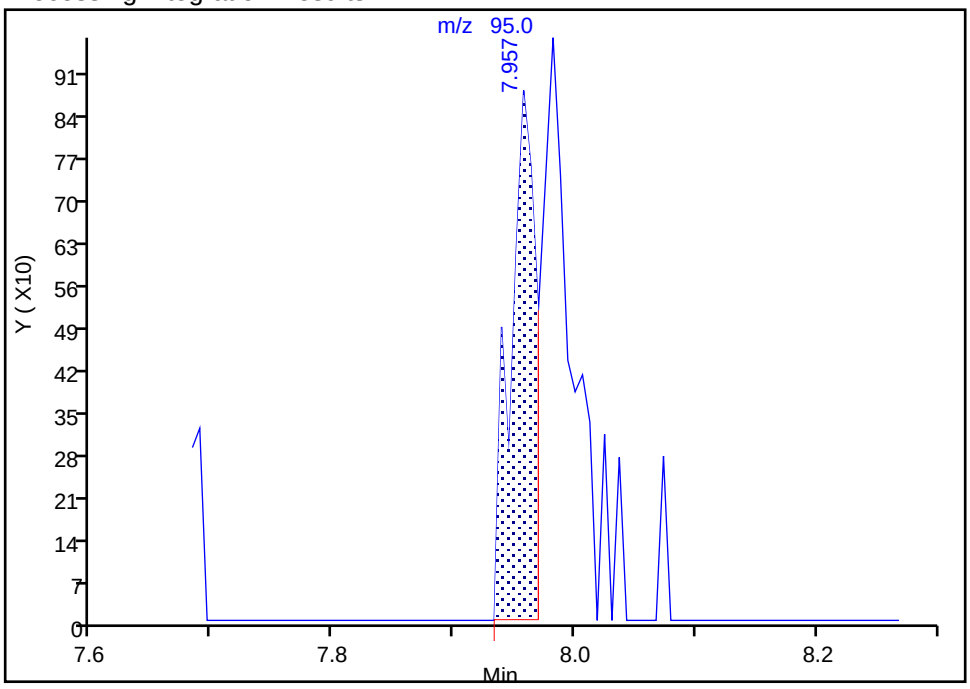
Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X10.D				
Injection Date:	27-Sep-2024 21:45:30	Instrument ID:	19094		
Lims ID:	410-189680-A-4	Lab Sample ID:	410-189680-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

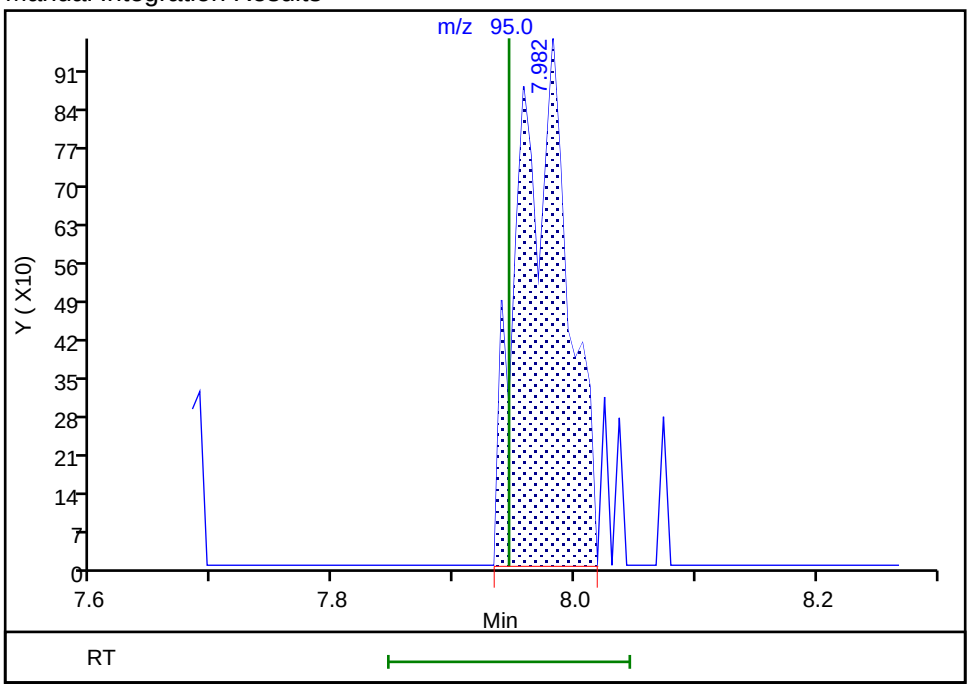
Processing Integration Results

RT: 7.96
Area: 1282
Amount: 0.035681
Amount Units: ug/l



Manual Integration Results

RT: 7.98
Area: 2734
Amount: 0.076094
Amount Units: ug/l



Reviewer: FQ4L, 30-Sep-2024 08:41:52 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.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0
Lab Sample ID: 410-189680-5

Matrix: Water
Lab File ID: HS27X11.D

Analysis Method: 8260D
Date Collected: 09/23/2024 10:58

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 22:05

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.11	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	1.1		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0
Lab Sample ID: 410-189680-5

Matrix: Water
Lab File ID: HS27X11.D

Analysis Method: 8260D
Date Collected: 09/23/2024 10:58

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 22:05

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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	0.18	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)	94		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X11.D
Lims ID: 410-189680-A-5
Client ID: HD-COD-SW-13-0/1-0
Sample Type: Client
Inject. Date: 27-Sep-2024 22:05:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-012
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Sep-2024 08:43:55 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:43:55

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	5 Chloromethane	50		2.056				ND	7
	6 Vinyl chloride	62		2.166				ND	7
	9 Bromomethane	94		2.477				ND	
	10 Chloroethane	64		2.538				ND	
	17 1,1-Dichloroethene	96		3.337				ND	
	19 Acetone	43		3.367				ND	U
	23 Carbon disulfide	76		3.629				ND	7
	27 Methylene Chloride	84		3.952				ND	
*	28 t-Butyl alcohol-d10 (IS)	65	3.977	3.983	-0.006	22	79358	50.0	
	32 Methyl tert-butyl ether	73		4.330				ND	
	33 trans-1,2-Dichloroethene	96		4.349				ND	
	36 1,1-Dichloroethane	63		5.007				ND	
	41 2-Butanone (MEK)	43		5.812				ND	
	42 cis-1,2-Dichloroethene	96	5.866	5.842	0.024	80	3761	0.1073	
	48 Chlorobromomethane	128		6.184				ND	
	50 Chloroform	83	6.348	6.336	0.012	20	4041	0.0692	
$	52 Dibromofluoromethane (Surr)	113	6.555	6.549	0.006	94	370429	10.4	
	53 1,1,1-Trichloroethane	97		6.562				ND	U
	56 Carbon tetrachloride	117		6.781				ND	
$	58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.007	0.012	48	68908	9.45	
	59 Benzene	78		7.043				ND	7
	60 1,2-Dichloroethane	62		7.116				ND	
*	64 Fluorobenzene (IS)	96	7.458	7.458	0.000	99	1458022	10.0	
	68 Trichloroethene	95	7.970	7.945	0.025	91	6239	0.1764	M
	70 1,2-Dichloropropane	63		8.281				ND	
	76 Dichlorobromomethane	83		8.634				ND	
	80 cis-1,3-Dichloropropene	75		9.195				ND	
	82 4-Methyl-2-pentanone (MIBK)	43		9.372				ND	
$	83 Toluene-d8 (Surr)	98	9.518	9.518	0.000	93	1488598	10.0	
	84 Toluene	92		9.598				ND	7
	85 trans-1,3-Dichloropropene	75		9.872				ND	
	106 1,1,2-Trichloroethane	97		10.079				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.177	10.171	0.006	94	47039	1.12	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.579				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1139740	10.0	
115 Chlorobenzene	112		11.048				ND	
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	
121 Styrene	104		11.603				ND	
122 Bromoform	173		11.762				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	93	527489	9.53	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	94	644076	10.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected

Reagents:

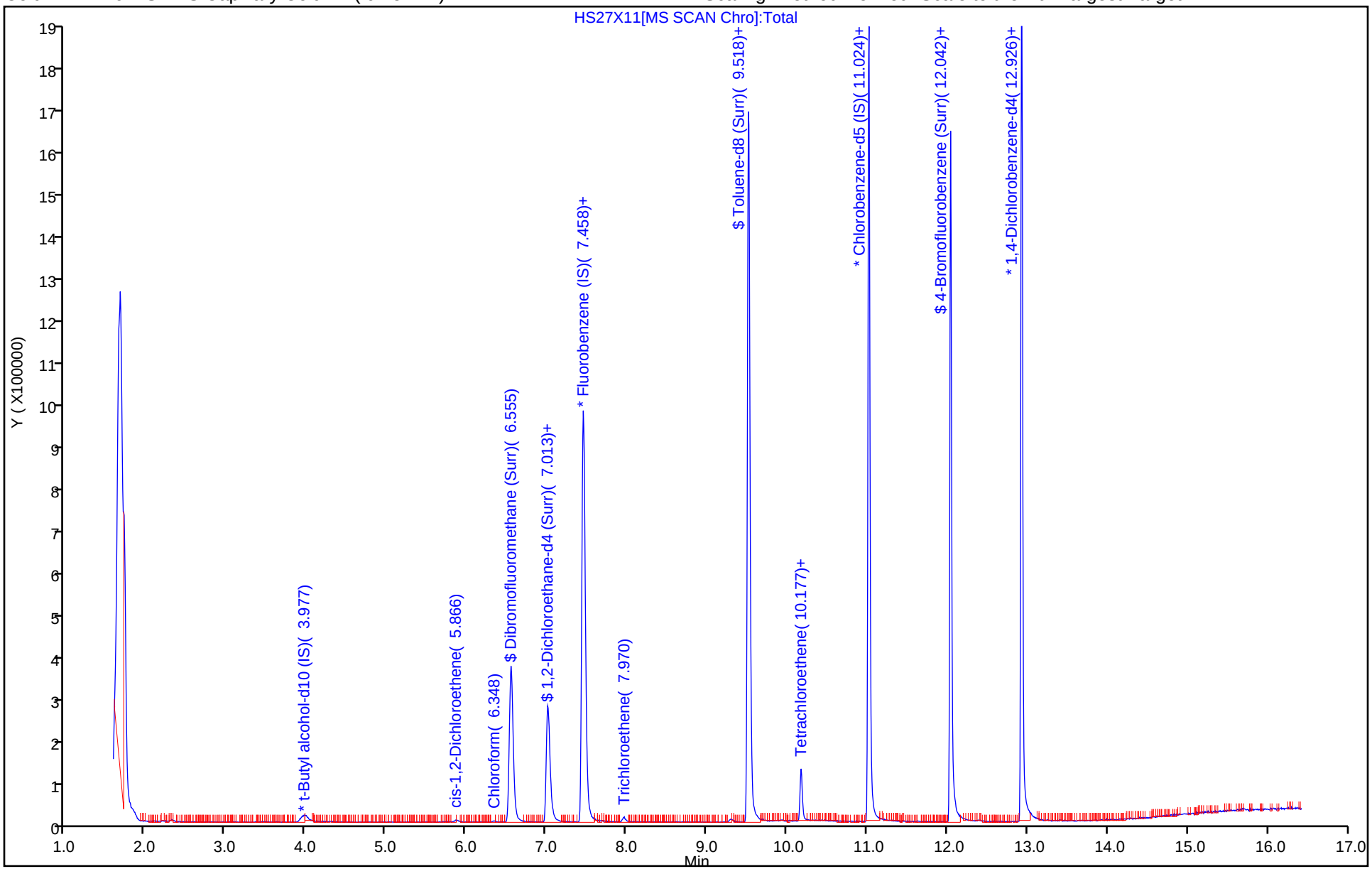
MSV_LLcentISS_00013 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 30-Sep-2024 08:43:55 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X11.D				
Injection Date:	27-Sep-2024 22:05:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	410-189680-A-5	Lab Sample ID:	410-189680-5	Worklist Smp#:	12
Client ID:	HD-COD-SW-13-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X11.D				
Lims ID:	410-189680-A-5				
Client ID:	HD-COD-SW-13-0/1-0				
Sample Type:	Client				
Inject. Date:	27-Sep-2024 22:05:30	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-012				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Sep-2024 08:43:55	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				

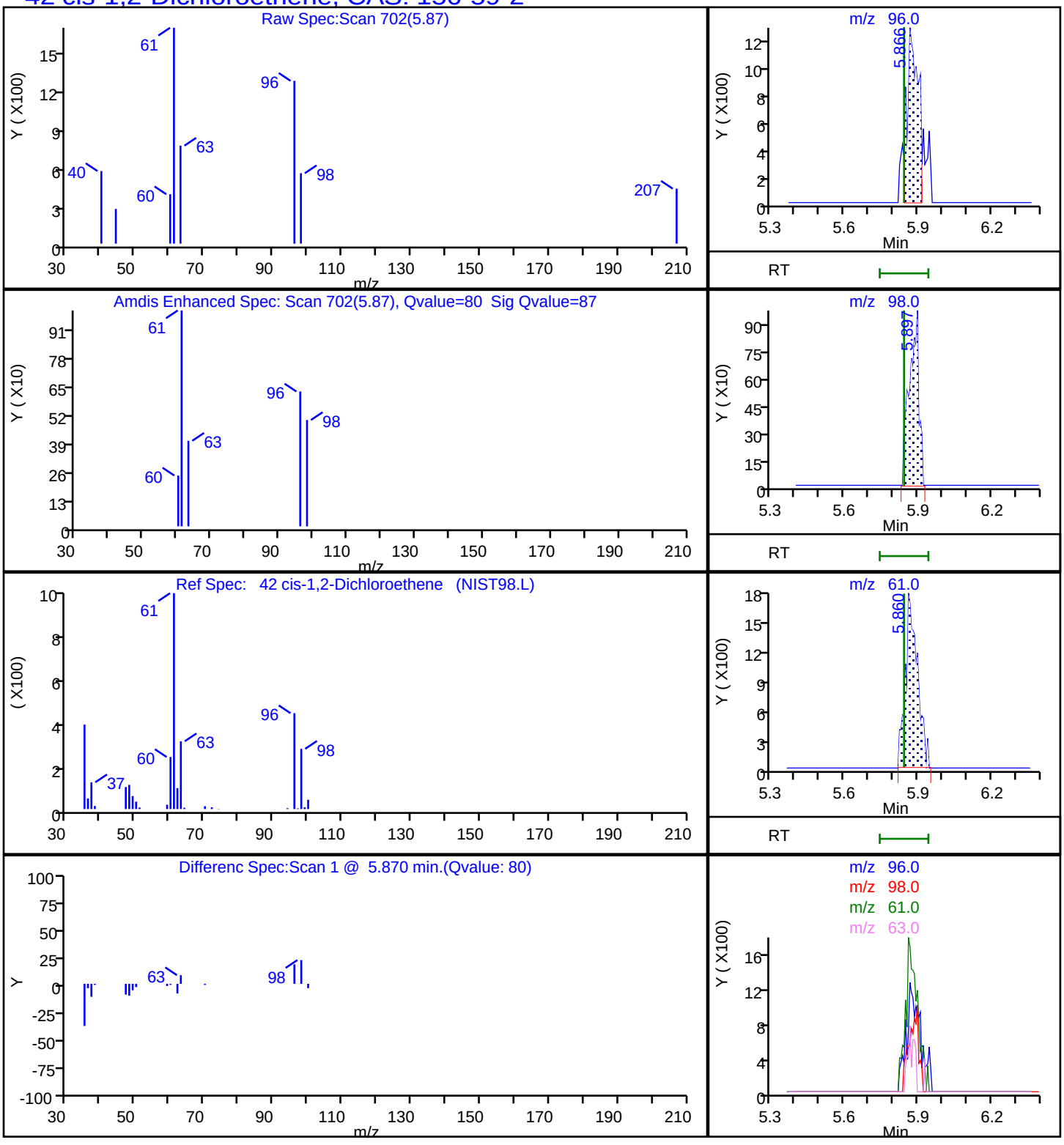
First Level Reviewer: FQ4L Date: 30-Sep-2024 08:43:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.4	103.75
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.45	94.48
$ 83 Toluene-d8 (Surr)	10.0	10.0	100.43
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.53	95.30

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X11.D				
Injection Date:	27-Sep-2024 22:05:30	Instrument ID:	19094		
Lims ID:	410-189680-A-5	Lab Sample ID:	410-189680-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

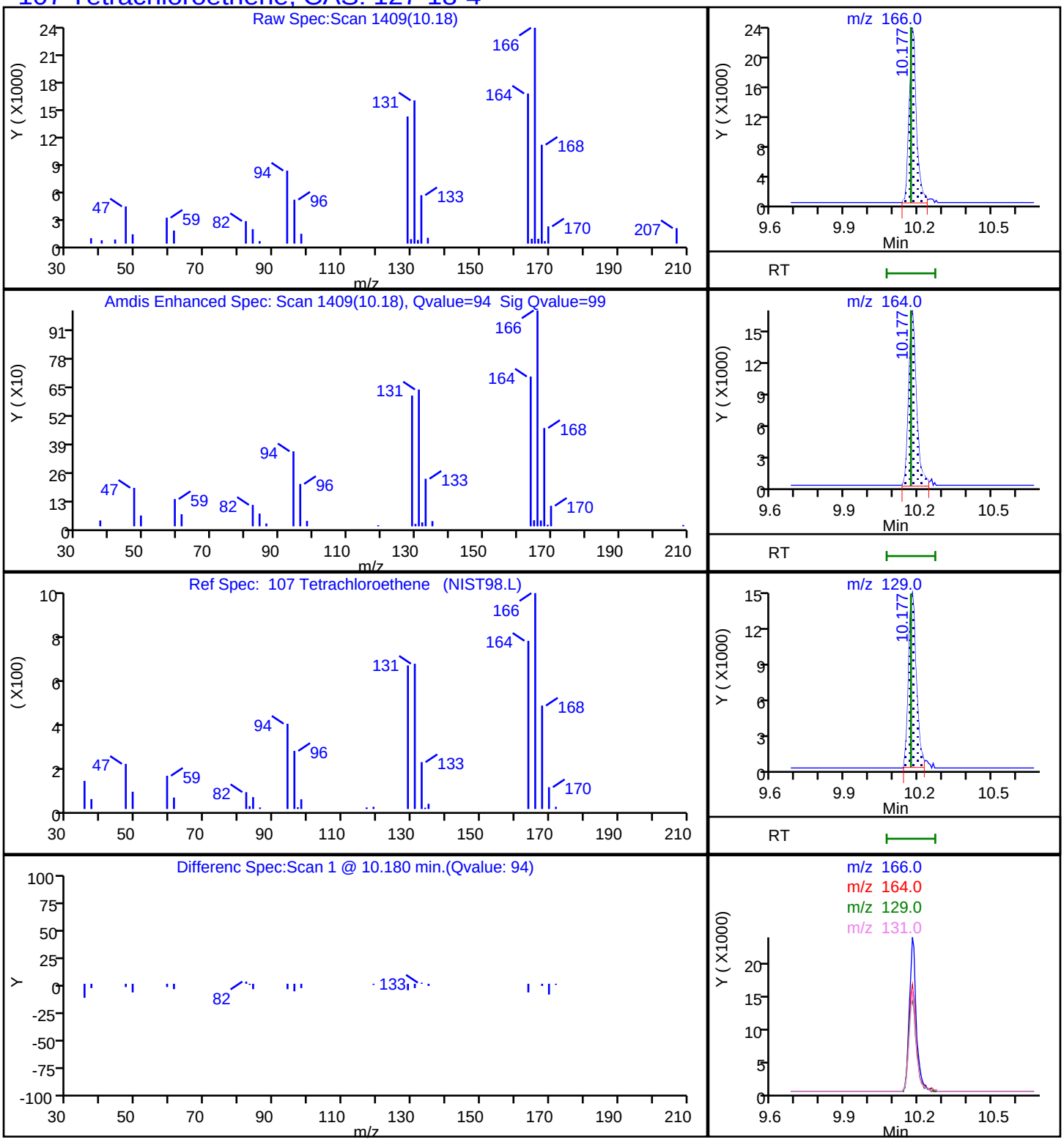
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X11.D				
Injection Date:	27-Sep-2024 22:05:30	Instrument ID:	19094		
Lims ID:	410-189680-A-5	Lab Sample ID:	410-189680-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

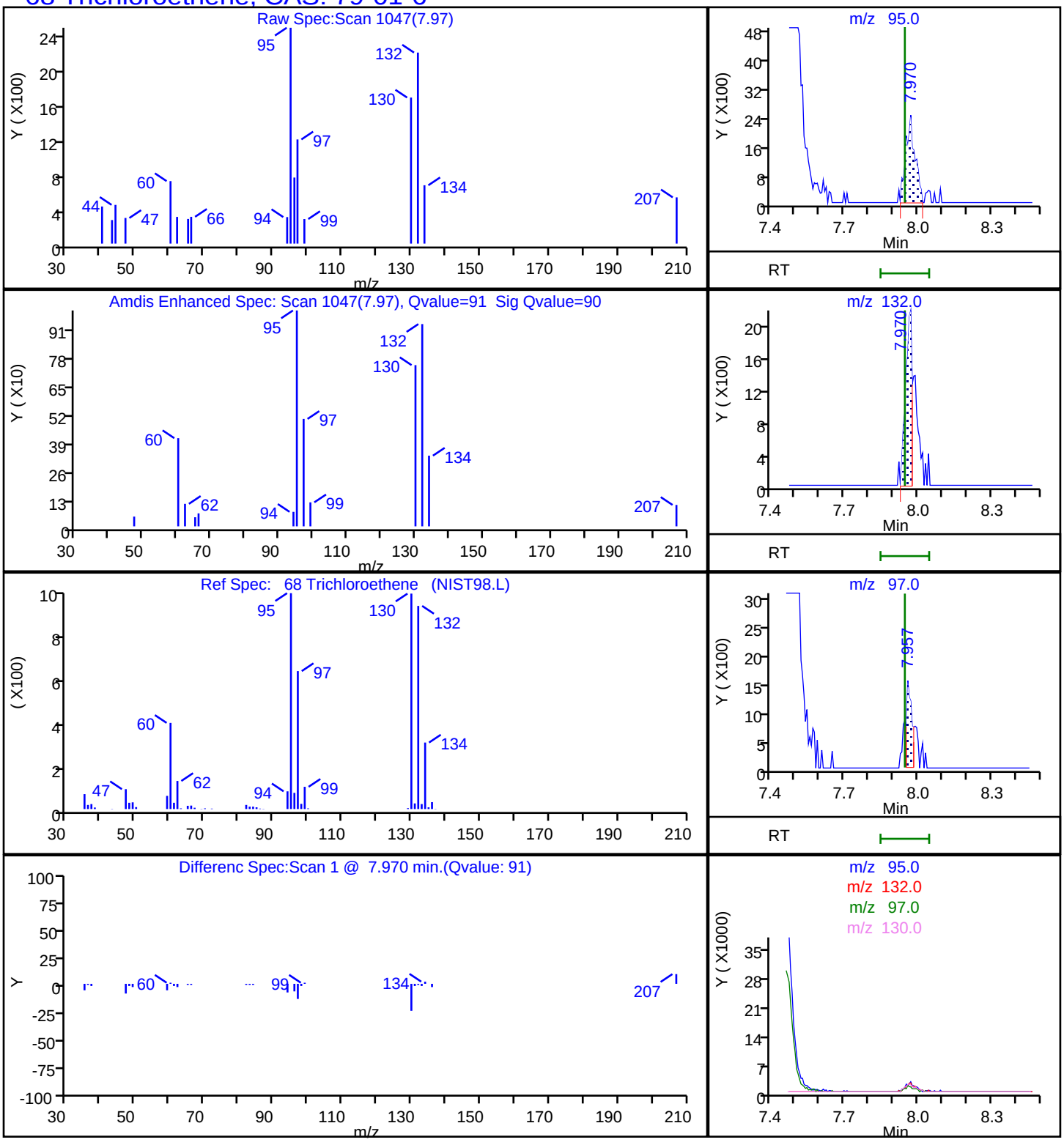
107 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X11.D				
Injection Date:	27-Sep-2024 22:05:30	Instrument ID:	19094		
Lims ID:	410-189680-A-5	Lab Sample ID:	410-189680-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



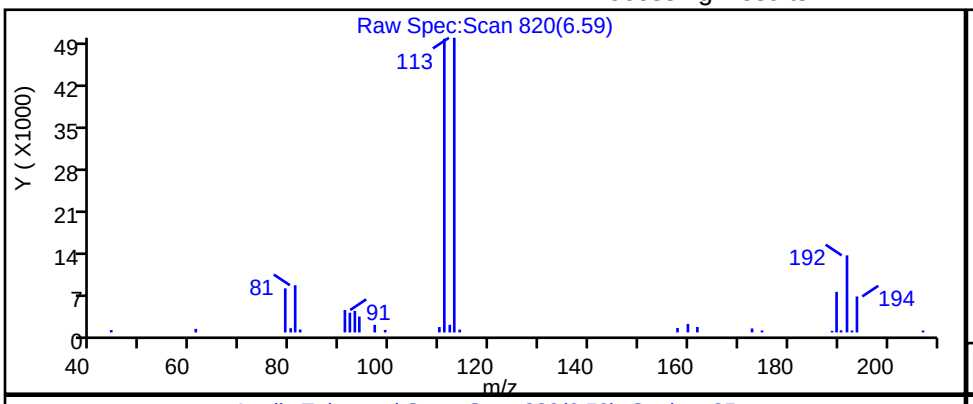
User Disabled Compound Report

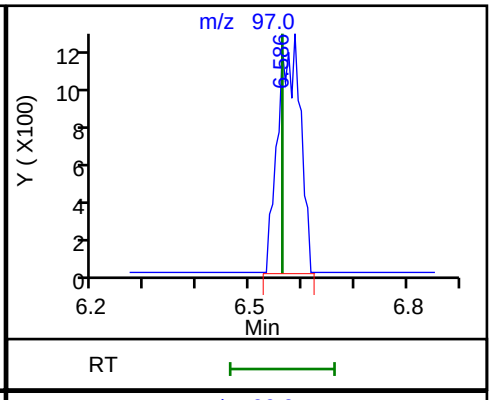
Eurofins Lancaster Laboratories Environment Testing, LLC

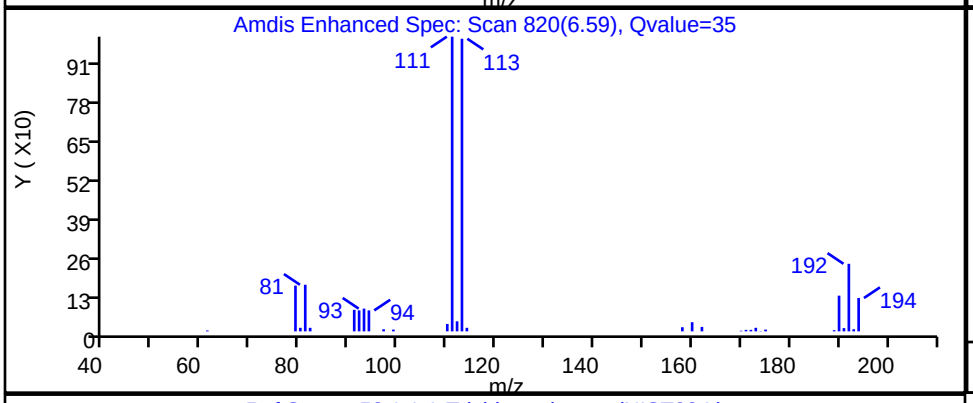
Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X11.D				
Injection Date:	27-Sep-2024 22:05:30	Instrument ID:	19094		
Lims ID:	410-189680-A-5	Lab Sample ID:	410-189680-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

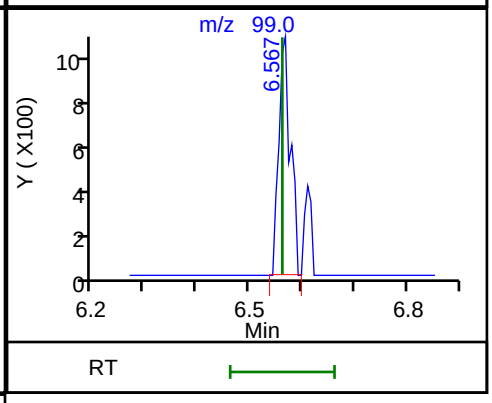
53 1,1,1-Trichloroethane, CAS: 71-55-6

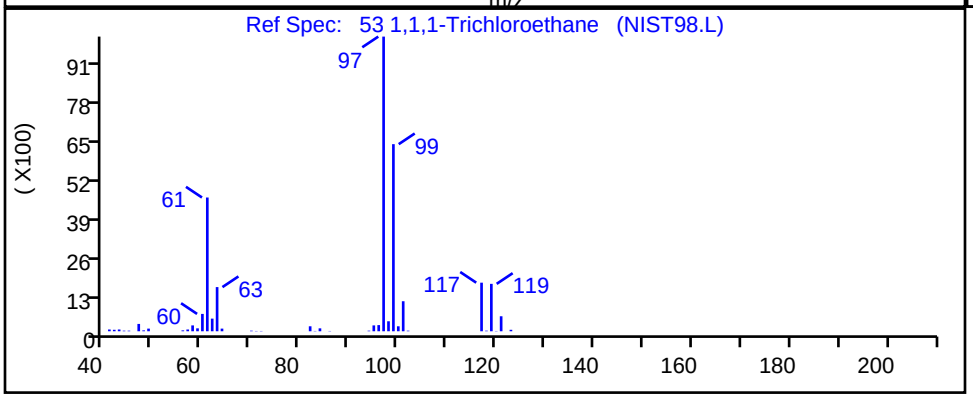
Processing Results











RT	Mass	Response	Amount
6.59	97.00	3700	0.074340
6.57	99.00	1656	

Reviewer: FQ4L, 30-Sep-2024 08:43:12 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

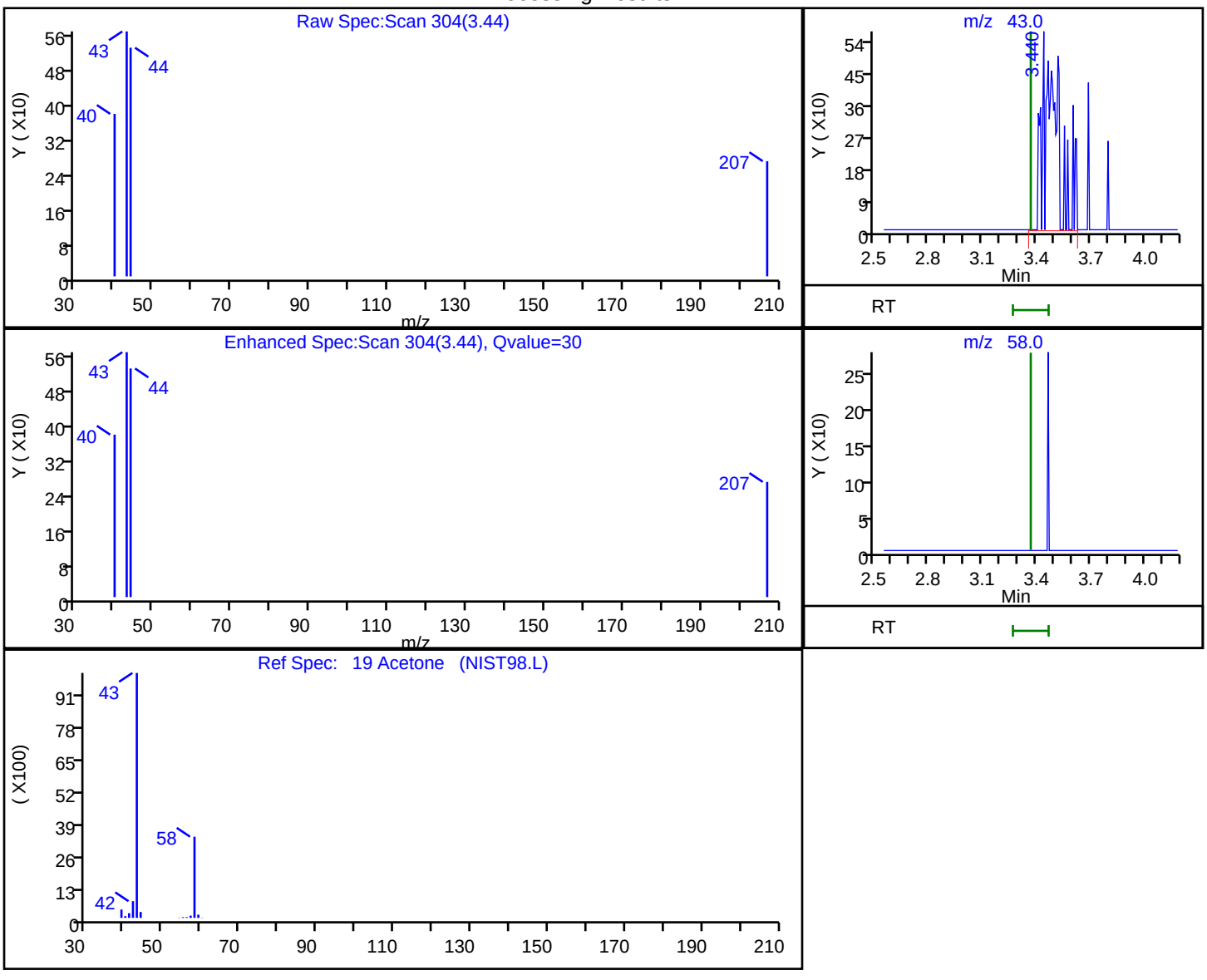
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X11.D				
Injection Date:	27-Sep-2024 22:05:30	Instrument ID:	19094		
Lims ID:	410-189680-A-5	Lab Sample ID:	410-189680-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.44	43.00	3048	0.721609
3.37	58.00	0	

Reviewer: FQ4L, 30-Sep-2024 08:42:57 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

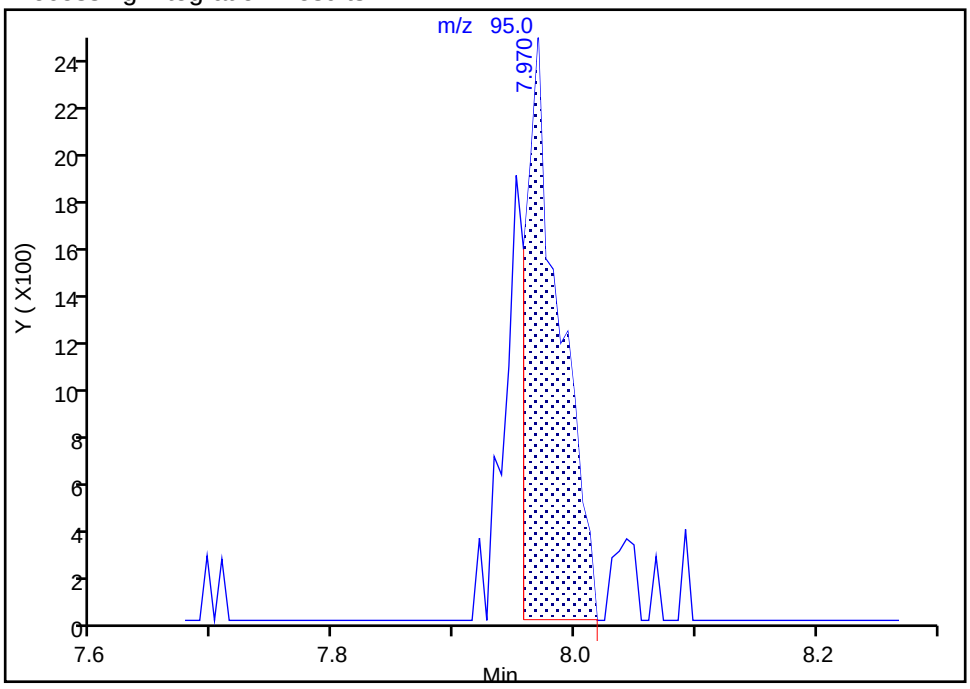
Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X11.D				
Injection Date:	27-Sep-2024 22:05:30	Instrument ID:	19094		
Lims ID:	410-189680-A-5	Lab Sample ID:	410-189680-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

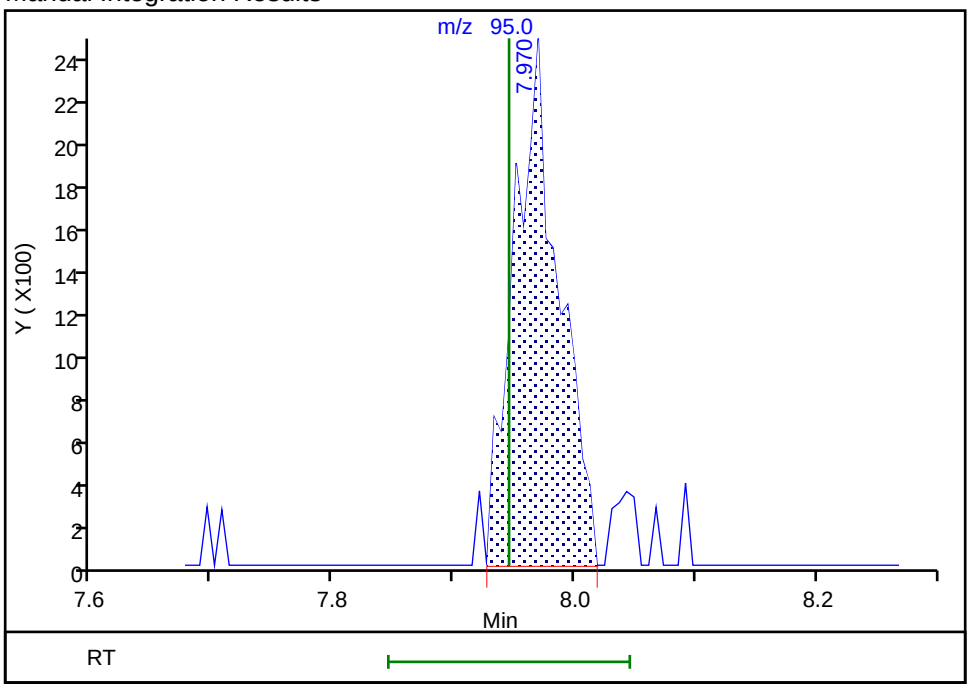
Processing Integration Results

RT: 7.97
Area: 4714
Amount: 0.133282
Amount Units: ug/l



Manual Integration Results

RT: 7.97
Area: 6239
Amount: 0.176399
Amount Units: ug/l



Reviewer: FQ4L, 30-Sep-2024 08:43:32 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.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0
Lab Sample ID: 410-189680-6

Matrix: Water
Lab File ID: HS27X12.D

Analysis Method: 8260D
Date Collected: 09/23/2024 13:00

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 22:26

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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	0.20	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	0.12	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.17	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.64		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	3.9		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0
Lab Sample ID: 410-189680-6

Matrix: Water
Lab File ID: HS27X12.D

Analysis Method: 8260D
Date Collected: 09/23/2024 13:00

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 22:26

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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	0.87		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)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X12.D
Lims ID: 410-189680-A-6
Client ID: HD-COD-SW-15-0/1-0
Sample Type: Client
Inject. Date: 27-Sep-2024 22:26:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-013
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Sep-2024 08:47:21 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:47:21

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	1 Chlorotrifluoroethene	116		1.849				ND	
	2 Dichlorodifluoromethane	85		1.861				ND	
	3 Chlorodifluoromethane	51		1.898				ND	7
	4 Dimethyl ether	45		1.947				ND	
	5 Chloromethane	50		2.056				ND	
	7 Butadiene	39		2.154				ND	7
	6 Vinyl chloride	62		2.166				ND	
	8 2-Chloro-1,1,1-Trifluoroethane	118		2.239				ND	
	9 Bromomethane	94		2.477				ND	
	10 Chloroethane	64		2.538				ND	
	11 Dichlorofluoromethane	67		2.757				ND	
	12 Trichlorofluoromethane	101		2.849				ND	
	14 Ethyl ether	59		3.056				ND	
	13 Ethanol	45		3.111				ND	
	15 1,2-Dichloro-1,1,2-trifluoroetha	67		3.135				ND	
	16 Acrolein	56		3.202				ND	
	17 1,1-Dichloroethene	96	3.343	3.337	0.006	94	3160	0.1217	
	19 Acetone	43		3.367				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.379				ND	
T	18 Ethanol TIC	45		3.440				ND	7
	21 Iodomethane	142		3.519				ND	
	22 Ethyl bromide	108		3.544				ND	
	23 Carbon disulfide	76		3.629				ND	
	24 Methyl acetate	43		3.757				ND	
	25 Acetonitrile	41		3.763				ND	
	26 3-Chloro-1-propene	41		3.775				ND	
	27 Methylene Chloride	84		3.952				ND	
*	28 t-Butyl alcohol-d10 (IS)	65	3.964	3.983	-0.019	22	76069	50.0	
	29 2-Methyl-2-propanol	59		4.086				ND	
T	30 Acetonitrile TIC	41		4.214				ND	
	31 Acrylonitrile	53		4.288				ND	
	32 Methyl tert-butyl ether	73		4.330				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 trans-1,2-Dichloroethene	96		4.349				ND	
34 Hexane	57		4.769				ND	
36 1,1-Dichloroethane	63	5.025	5.007	0.018	1	4048	0.0698	
35 Vinyl acetate	43		5.025				ND	
37 Isopropyl ether	45		5.062				ND	
38 2-Chloro-1,3-butadiene	53		5.117				ND	
T 39 Vinyl acetate (TIC)	43		5.537				ND	
40 Tert-butyl ethyl ether	59		5.604				ND	
41 2-Butanone (MEK)	43		5.812				ND	
42 cis-1,2-Dichloroethene	96	5.873	5.842	0.031	77	22079	0.6385	
43 2,2-Dichloropropane	77		5.854				ND	
44 Propionitrile	54		5.897				ND	
45 Ethyl acetate	43		5.909				ND	
47 Methacrylonitrile	67		6.110				ND	
S 46 1,2-Dichloroethene, Total	100				0		0.6385	
48 Chlorobromomethane	128		6.184				ND	
49 Tetrahydrofuran	71		6.190				ND	
50 Chloroform	83	6.348	6.336	0.012	90	9943	0.1726	
51 Methyl acrylate	55		6.482				ND	
$ 52 Dibromofluoromethane (Surr)	113	6.561	6.549	0.012	94	367341	10.4	
53 1,1,1-Trichloroethane	97	6.568	6.562	0.006	36	9839	0.2003	
54 Cyclohexane	56		6.671				ND	
56 Carbon tetrachloride	117		6.781				ND	
55 1,1-Dichloropropene	75		6.787				ND	
57 Isobutyl alcohol	41		6.946				ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.007	0.012	48	71196	9.89	
59 Benzene	78		7.043				ND	
60 1,2-Dichloroethane	62		7.116				ND	
61 Isopropyl acetate	43		7.147				ND	
63 Tert-amyl methyl ether	73		7.244				ND	
62 1-Chlorobutane	56	7.458	7.250	0.208	33	6430	NC	
* 64 Fluorobenzene (IS)	96	7.464	7.458	0.006	99	1438980	10.0	
65 n-Heptane	43		7.476				ND	
67 n-Butanol	56		7.836				ND	
66 t-Amyl alcohol	73		7.842				ND	
68 Trichloroethene	95	7.964	7.945	0.019	98	30201	0.8652	
69 Methylcyclohexane	83		8.262				ND	
70 1,2-Dichloropropane	63		8.281				ND	
71 2-ethoxy-2-methyl butane	87		8.293				ND	
73 1,4-Dioxane	88		8.372				ND	
72 Methyl methacrylate	69		8.378				ND	
74 Dibromomethane	93		8.390				ND	
75 n-Propyl acetate	61		8.470				ND	
76 Dichlorobromomethane	83		8.634				ND	
77 2-Nitropropane	41		8.896				ND	
78 2-Chloroethyl vinyl ether	63		9.018				ND	
79 1-Bromo-2-chloroethane	63		9.031				ND	
80 cis-1,3-Dichloropropene	75		9.195				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.372				ND	
81 Chloroacetonitrile	75		9.427				ND	
$ 83 Toluene-d8 (Surr)	98	9.524	9.518	0.006	93	1479689	10.0	
84 Toluene	92		9.598				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		9.872				ND	
104 Ethyl methacrylate	69		9.939				ND	
T 93 Methyl acrylate TIC	55	9.524	10.000	-0.476	4	4692	0.0326	
T 100 Ethylene oxide TIC	44	9.981	10.000	-0.019	1	701	0.004872	7
T 87 2,3-Dibromo-1-propanol TIC	57		10.000				ND	
T 88 2-Bromo-3-chloropropene TIC	75	11.024	10.000	1.024	1	16821	0.1169	7
T 89 Epibromohydrin TIC	57	9.518	10.000	-0.482	12	888	0.006171	7
T 90 3-Chloro-1,2-propanediol TIC	44	9.981	10.000	-0.019	1	701	0.004872	7
T 91 Octamethylcyclotetrasiloxane TIC	281	10.055	10.000	0.055	1	375	0.002606	7
T 94 Hexachloroethane TIC	117	10.170	10.000	0.170	6	1126	0.007825	7
T 92 Nitrobenzene TIC	77	9.524	10.000	-0.476	14	1091	0.007582	7
T 97 2,3-Dibromopropene TIC	119	10.177	10.000	0.177	1	1091	0.007582	7
T 95 Chloroacetaldehyde TIC	50		10.000				ND	
T 103 2-Bromoethanol TIC	45	9.524	10.000	-0.476	13	807	0.005608	7
T 102 Epichlorohydrin TIC	57		10.000				ND	
T 101 Vinyl bromide TIC	106	12.042	10.000	2.042	5	1814	0.0126	7
T 86 Decamethylcyclopentasiloxane TIC	73	9.524	10.000	-0.476	1	459	0.003190	7
T 99 Isopropyl alcohol TIC	45	9.524	10.000	-0.476	15	807	0.005608	7
T 98 2-Chloroethanol TIC	44		10.000				ND	
T 96 Monochloroacetic acid TIC	50	9.610	10.000	-0.390	1	317	0.002203	7
S 105 1,3-Dichloropropene, Total	100		10.060				ND	7
106 1,1,2-Trichloroethane	97		10.079				ND	7
107 Tetrachloroethene	166	10.170	10.171	-0.001	97	162789	3.90	
108 1,3-Dichloropropane	76		10.250				ND	
109 2-Hexanone	43		10.299				ND	
110 n-Butyl acetate	43		10.439				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.579				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1137416	10.0	
114 1-Chlorohexane	91		11.036				ND	U
115 Chlorobenzene	112		11.048				ND	
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	
120 o-Xylene	106		11.591				ND	
121 Styrene	104		11.603				ND	
122 Bromoform	173		11.762				ND	
123 Isopropylbenzene	105		11.896				ND	
124 cis-1,4-Dichloro-2-butene	88		11.945				ND	
125 Cyclohexanone	55		11.969				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	94	514076	9.31	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
128 Bromobenzene	156		12.152				ND	
129 trans-1,4-Dichloro-2-butene	53		12.164				ND	
130 1,2,3-Trichloropropane	110		12.188				ND	
131 N-Propylbenzene	91		12.225				ND	
132 2-Chlorotoluene	126		12.304				ND	
133 1,3,5-Trimethylbenzene	105		12.365				ND	
134 4-Chlorotoluene	126		12.396				ND	
135 tert-Butylbenzene	134		12.609				ND	
136 Pentachloroethane	167		12.640				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
137 1,2,4-Trimethylbenzene	105		12.652				ND	7
138 sec-Butylbenzene	105		12.774				ND	7
139 1,3-Dichlorobenzene	146		12.871				ND	
140 4-Isopropyltoluene	119		12.883				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	94	619324	10.0	
142 1,4-Dichlorobenzene	146		12.944				ND	
143 1,2,3-Trimethylbenzene	120		12.957				ND	7
144 Benzyl chloride	126		13.024				ND	
145 p-Diethylbenzene	119		13.158				ND	
146 n-Butylbenzene	92		13.176				ND	
147 1,2-Dichlorobenzene	146		13.207				ND	
148 Hexachloroethane	201		13.682				ND	
149 1,2-Dibromo-3-Chloropropane	155		13.755				ND	
150 1,3,5-Trichlorobenzene	180		13.877				ND	
151 1,2,4-Trichlorobenzene	180		14.304				ND	
152 Hexachlorobutadiene	225		14.383				ND	
153 Naphthalene	128		14.481				ND	
154 1,2,3-Trichlorobenzene	180		14.627				ND	
155 tert-Butyl Formate	1		0.000				ND	
156 Dodecane	57		0.000				ND	
157 Pentane	43		0.000				ND	
158 1,1-Dichloroacetone	1		0.000				ND	
159 n-Decane	57		0.000				ND	
160 1-Bromo-3-Chloropropane	1		0.000				ND	
161 1-Chloropropane	1		0.000				ND	
162 Propene oxide	1		0.000				ND	
163 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
164 Methylal	1		0.000				ND	
165 2-Bromo-1-chloropropane	1		0.000				ND	
209 1,1-Dichloro-1-fluoroethane TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

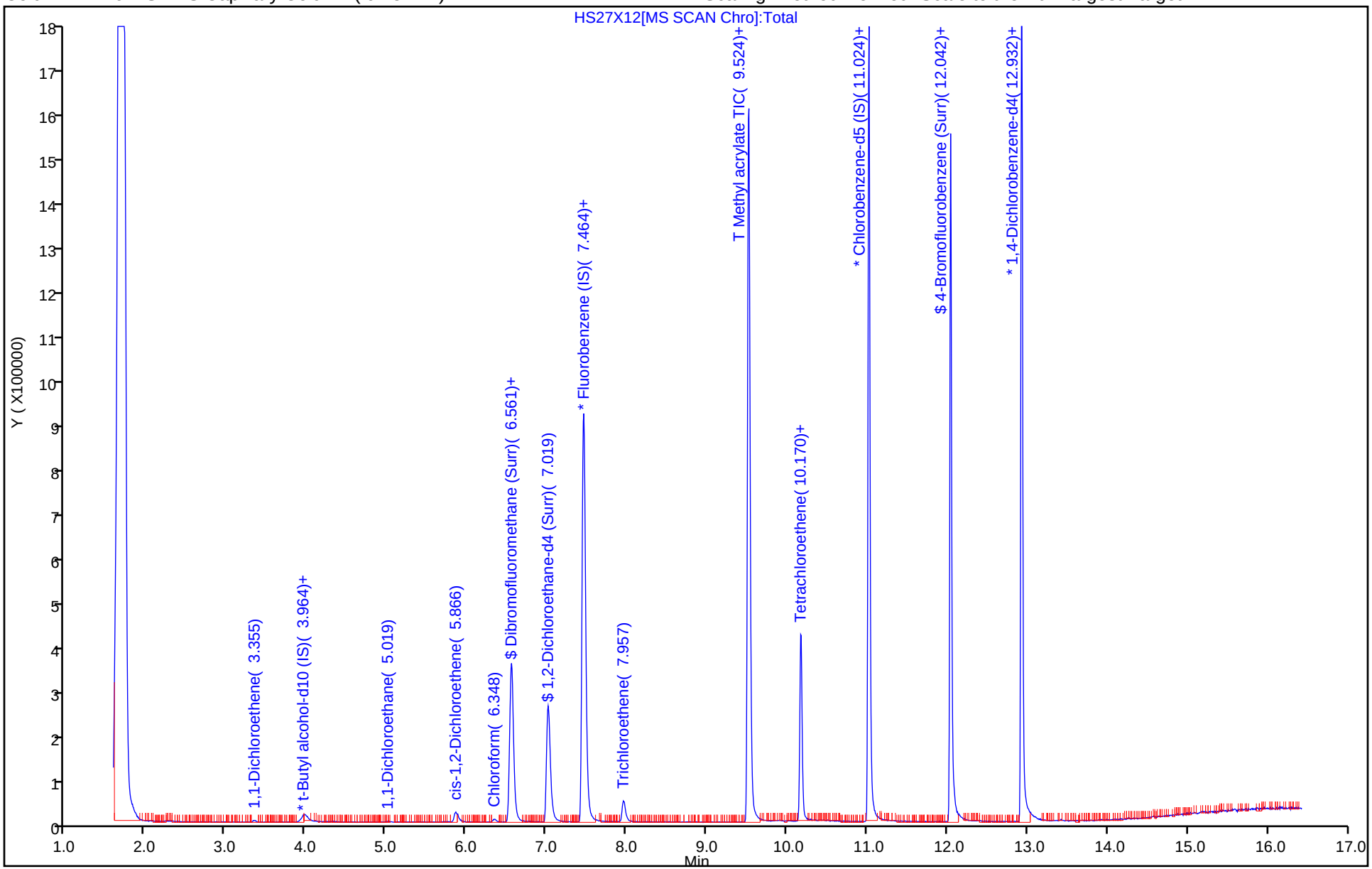
MSV_LLcentISS_00013 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 30-Sep-2024 08:47:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X12.D				
Injection Date:	27-Sep-2024 22:26:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	410-189680-A-6	Lab Sample ID:	410-189680-6	Worklist Smp#:	13
Client ID:	HD-COD-SW-15-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X12.D				
Lims ID:	410-189680-A-6				
Client ID:	HD-COD-SW-15-0/1-0				
Sample Type:	Client				
Inject. Date:	27-Sep-2024 22:26:30	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-013				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Sep-2024 08:47:21	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				

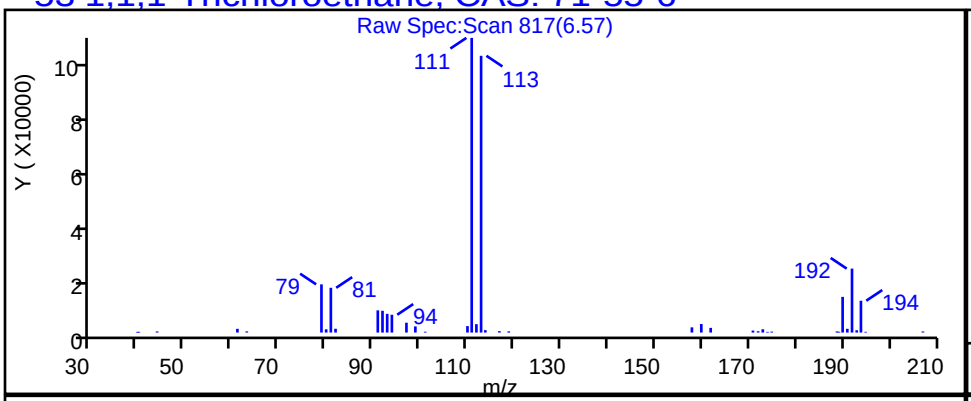
First Level Reviewer: FQ4L Date: 30-Sep-2024 08:47:21

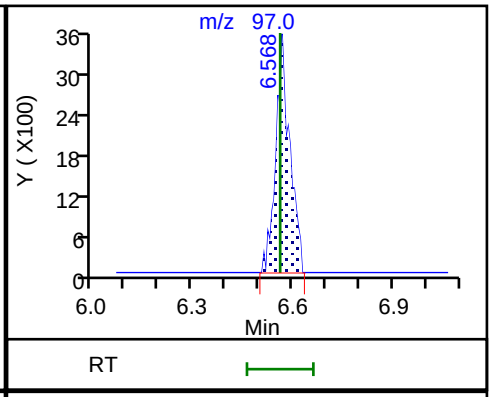
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.4	104.24
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.89	98.91
$ 83 Toluene-d8 (Surr)	10.0	10.0	100.03
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.31	93.07

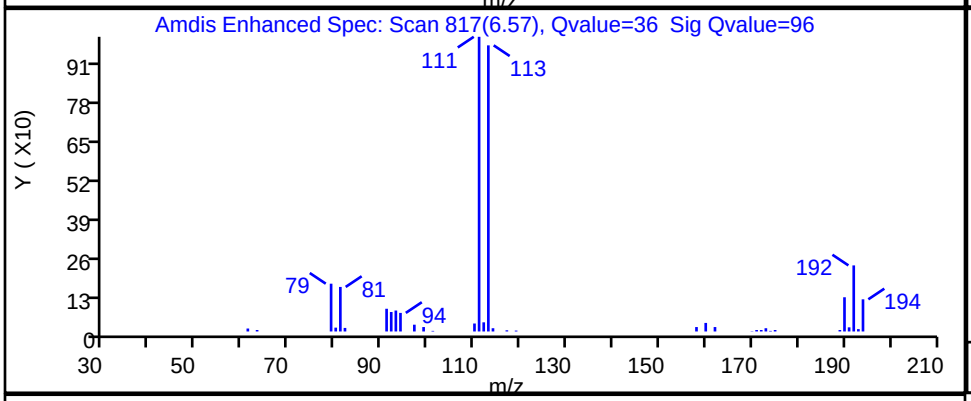
Eurofins Lancaster Laboratories Environment Testing, LLC

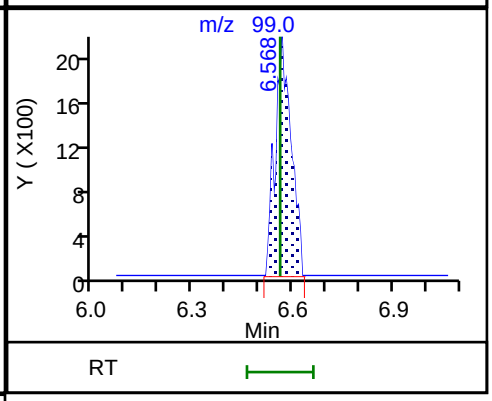
Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X12.D				
Injection Date:	27-Sep-2024 22:26:30	Instrument ID:	19094		
Lims ID:	410-189680-A-6	Lab Sample ID:	410-189680-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

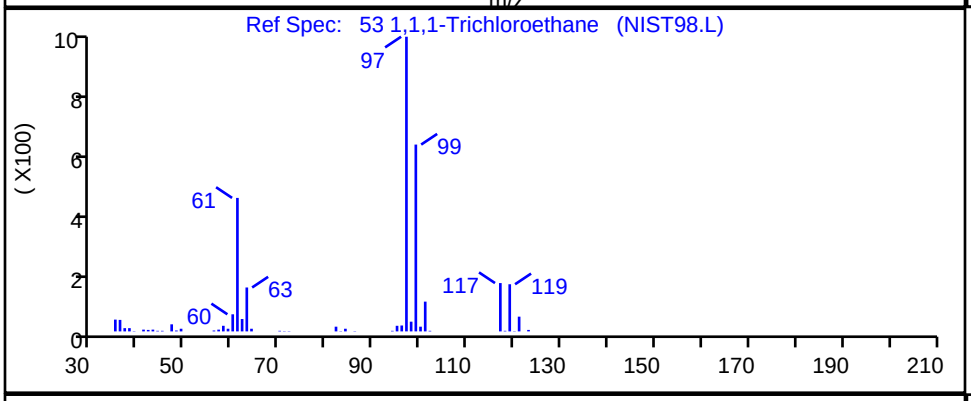
53 1,1,1-Trichloroethane, CAS: 71-55-6

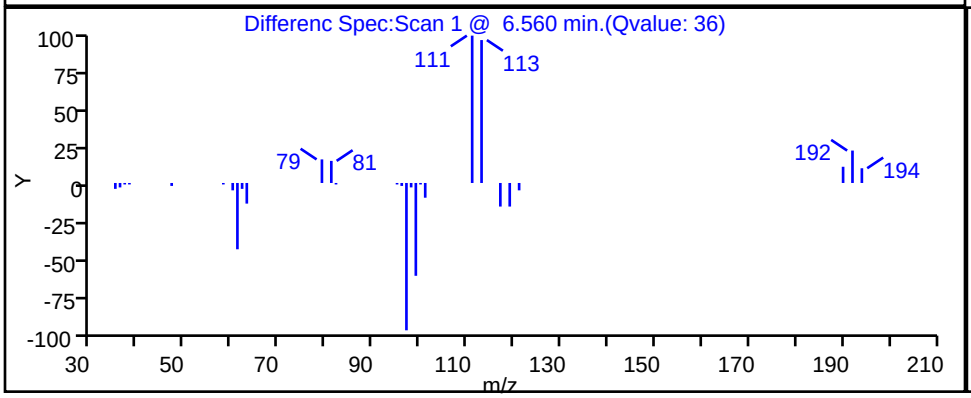


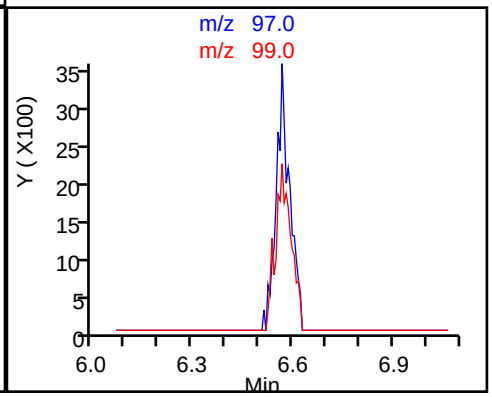








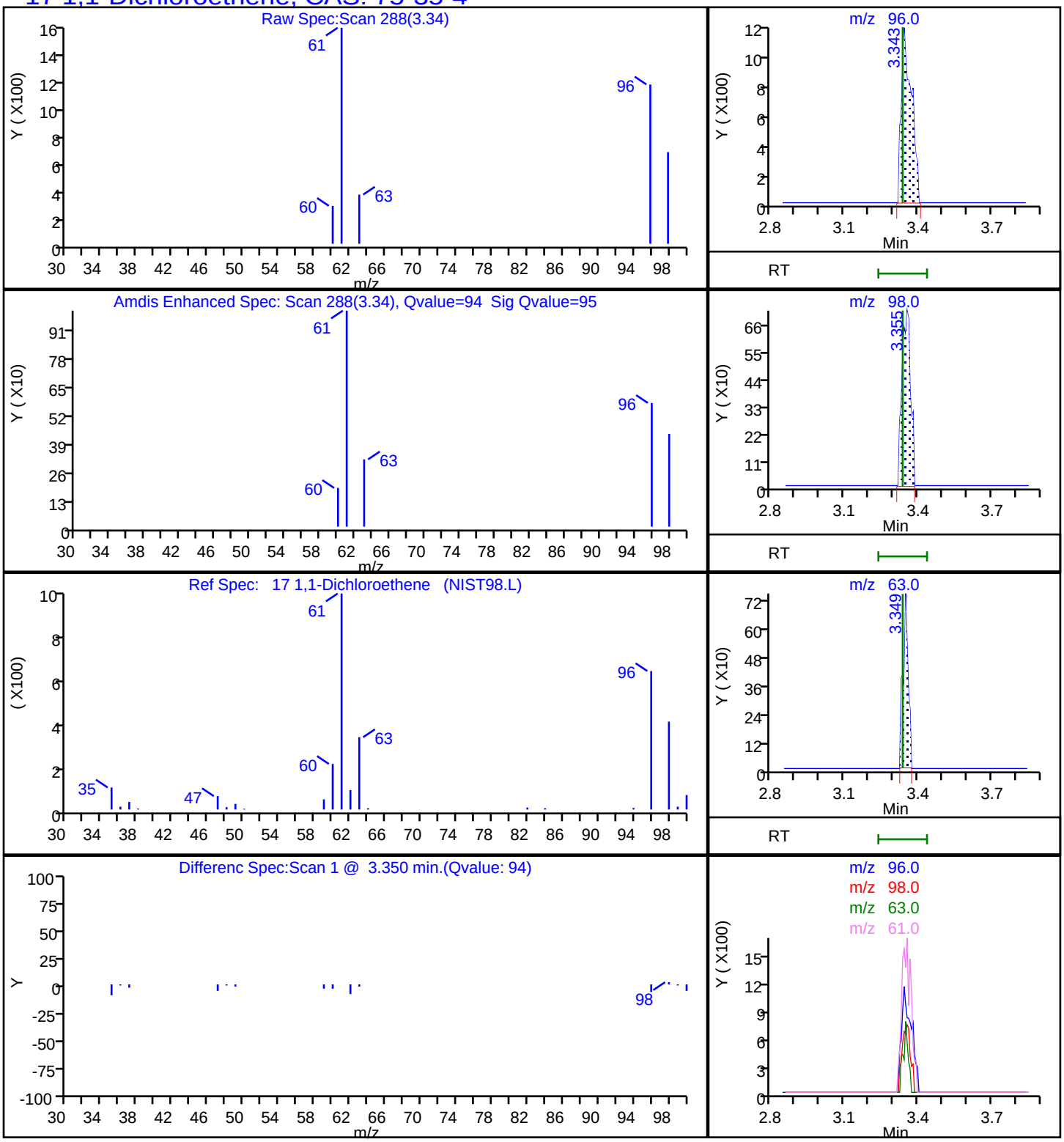




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X12.D				
Injection Date:	27-Sep-2024 22:26:30	Instrument ID:	19094		
Lims ID:	410-189680-A-6	Lab Sample ID:	410-189680-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

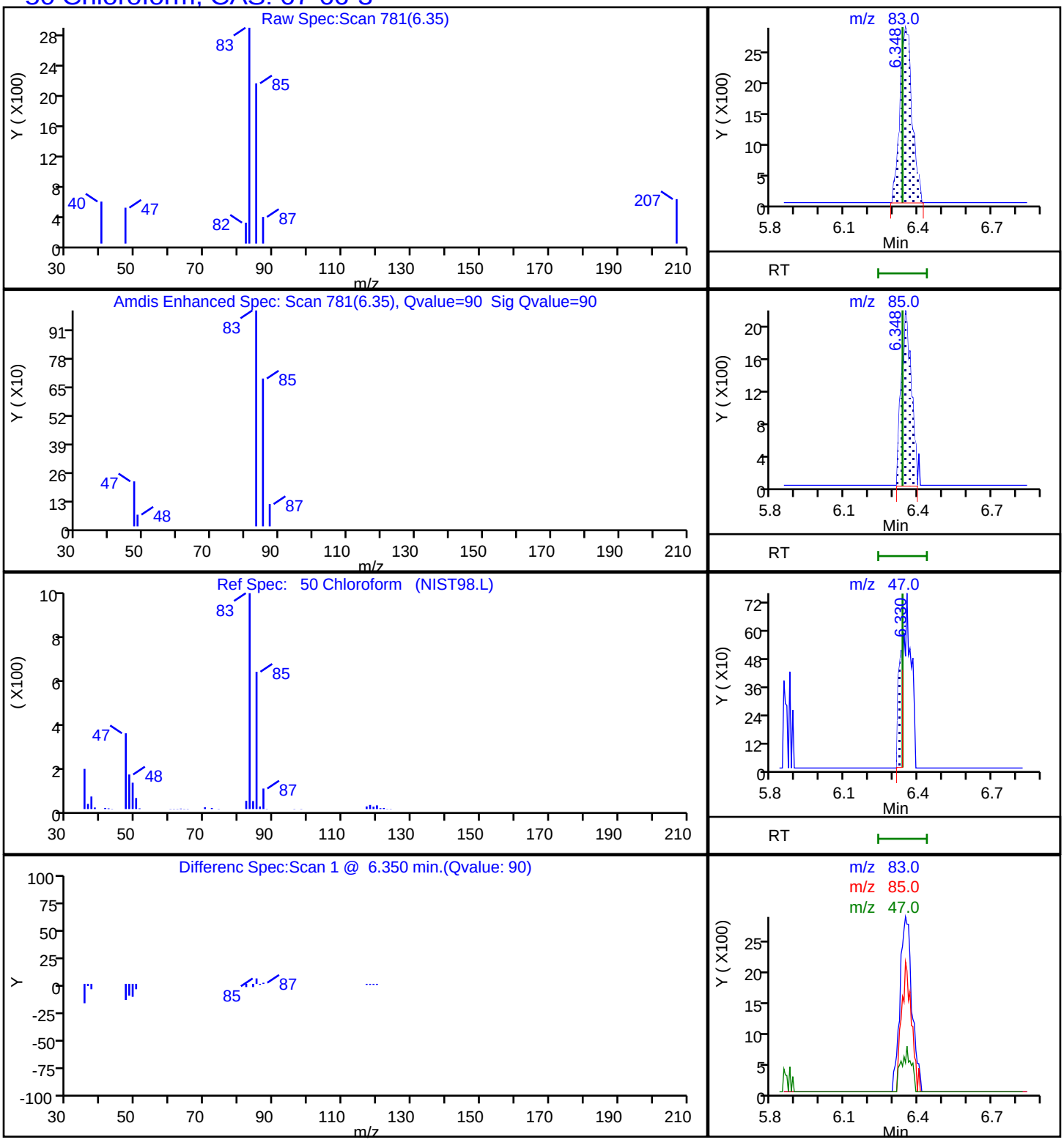
17 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X12.D				
Injection Date:	27-Sep-2024 22:26:30	Instrument ID:	19094		
Lims ID:	410-189680-A-6	Lab Sample ID:	410-189680-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

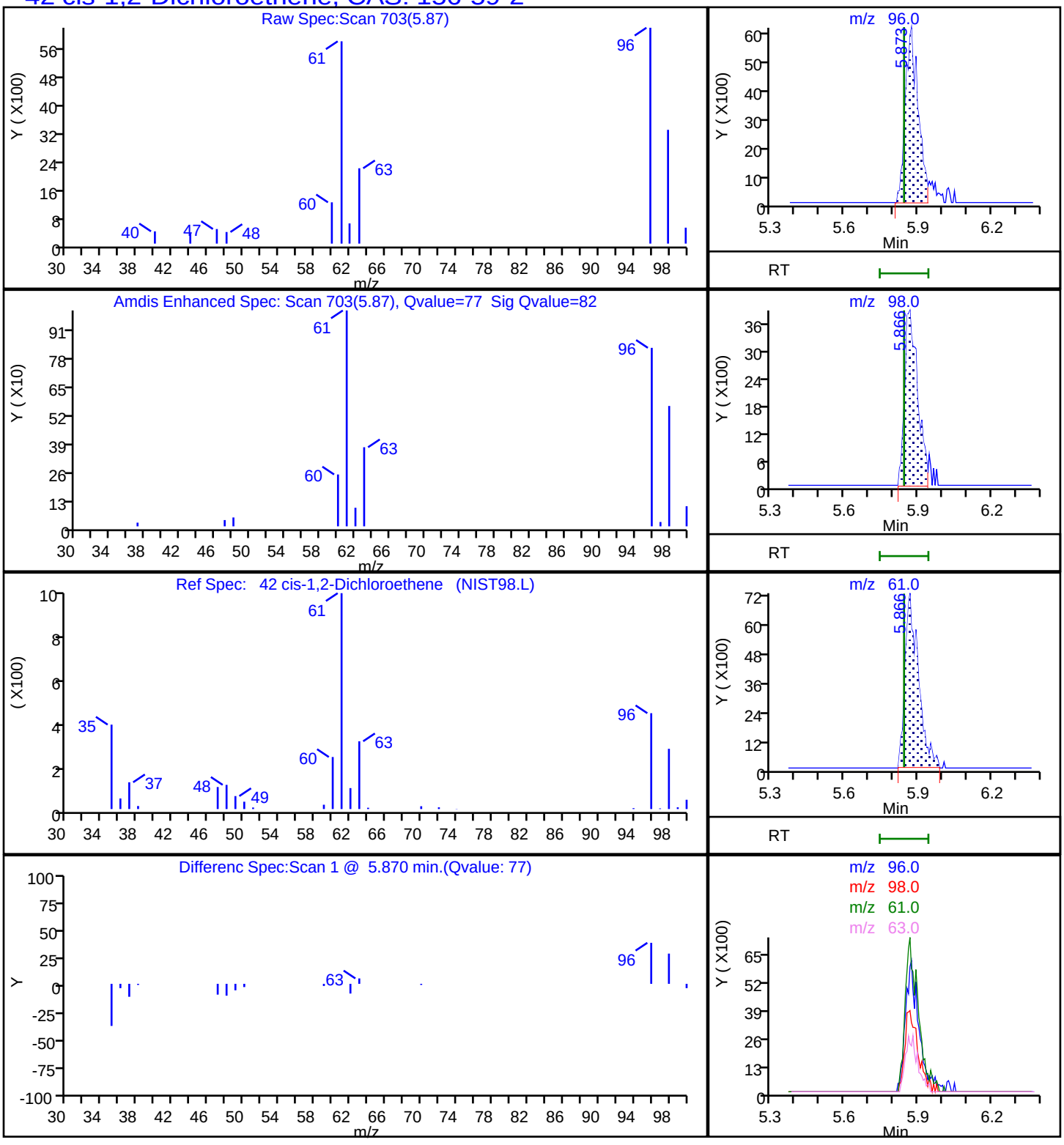
50 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X12.D				
Injection Date:	27-Sep-2024 22:26:30	Instrument ID:	19094		
Lims ID:	410-189680-A-6	Lab Sample ID:	410-189680-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

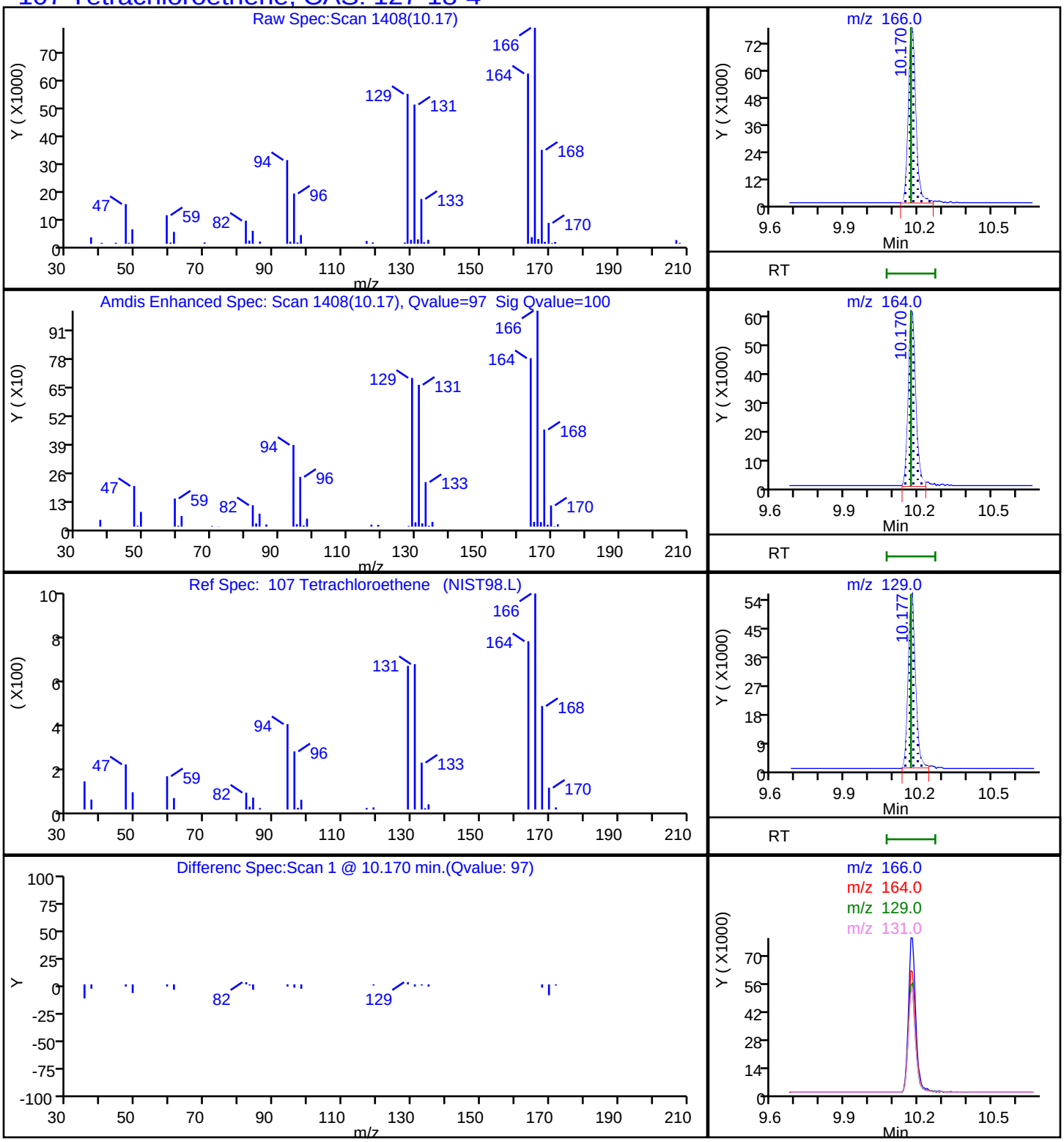
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X12.D				
Injection Date:	27-Sep-2024 22:26:30	Instrument ID:	19094		
Lims ID:	410-189680-A-6	Lab Sample ID:	410-189680-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

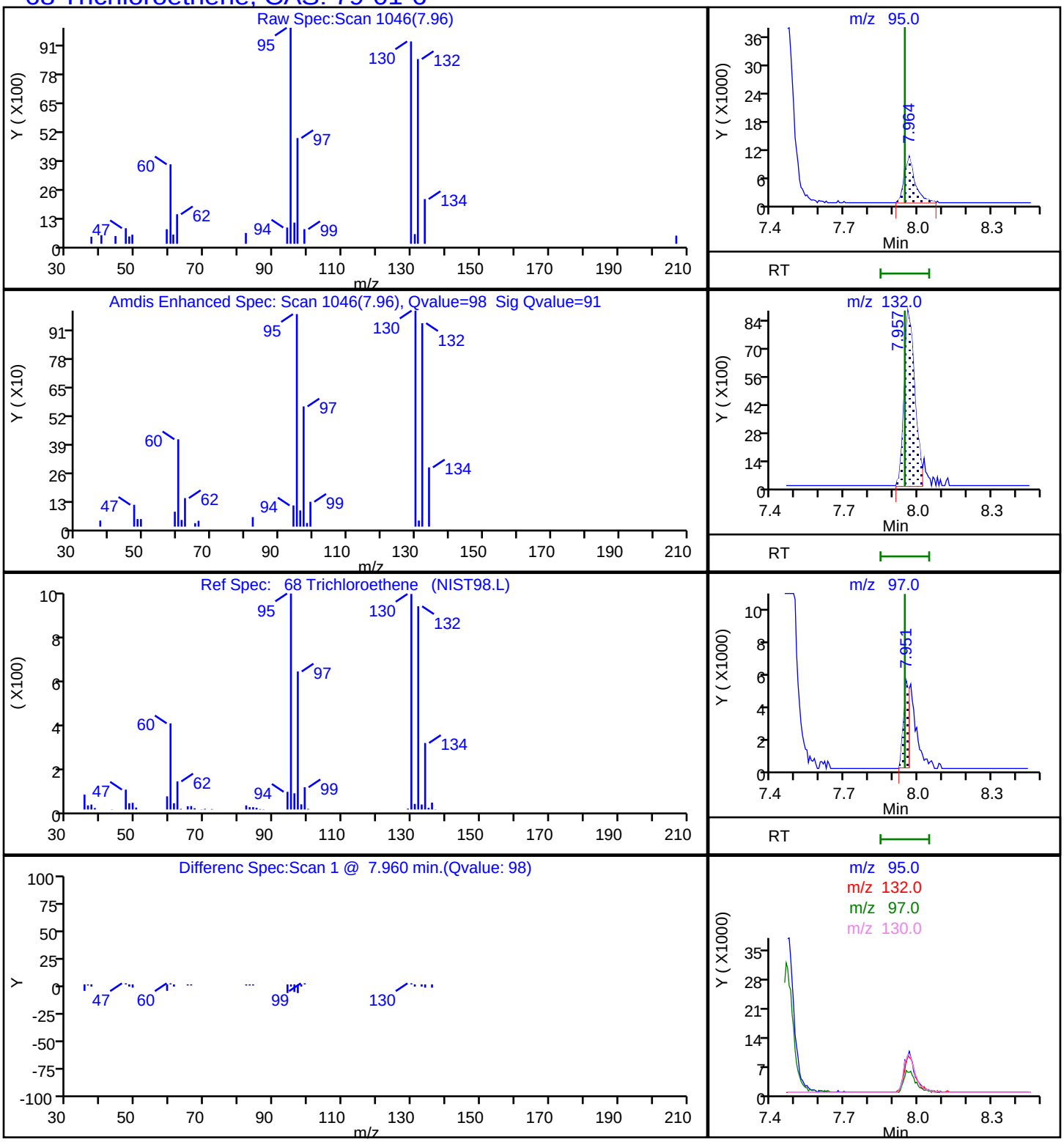
107 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X12.D				
Injection Date:	27-Sep-2024 22:26:30	Instrument ID:	19094		
Lims ID:	410-189680-A-6	Lab Sample ID:	410-189680-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	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.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0
Lab Sample ID: 410-189680-7

Matrix: Water
Lab File ID: HS27X15.D

Analysis Method: 8260D
Date Collected: 09/23/2024 11:20

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 23:29

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.13	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	1.8		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0
Lab Sample ID: 410-189680-7

Matrix: Water
Lab File ID: HS27X15.D

Analysis Method: 8260D
Date Collected: 09/23/2024 11:20

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 23:29

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X15.D
Lims ID: 410-189680-A-7
Client ID: HD-COD-SW-16-0/1-0
Sample Type: Client
Inject. Date: 27-Sep-2024 23:29:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-016
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Sep-2024 08:54:32 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:54:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.056				ND	7
6 Vinyl chloride	62		2.166				ND	
9 Bromomethane	94		2.477				ND	
10 Chloroethane	64		2.538				ND	
17 1,1-Dichloroethene	96		3.337				ND	
19 Acetone	43		3.367				ND	
23 Carbon disulfide	76		3.629				ND	7
27 Methylene Chloride	84		3.952				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.995	3.983	0.012	27	78096	50.0	
32 Methyl tert-butyl ether	73		4.330				ND	
33 trans-1,2-Dichloroethene	96		4.349				ND	
36 1,1-Dichloroethane	63		5.007				ND	
41 2-Butanone (MEK)	43		5.812				ND	
42 cis-1,2-Dichloroethene	96	5.897	5.842	0.055	80	4737	0.1346	M
48 Chlorobromomethane	128		6.184				ND	
50 Chloroform	83	6.354	6.336	0.018	1	3660	0.0624	
$ 52 Dibromofluoromethane (Surr)	113	6.555	6.549	0.006	94	370602	10.3	
53 1,1,1-Trichloroethane	97	6.568	6.562	0.006	35	6158	0.1232	
56 Carbon tetrachloride	117		6.781				ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.007	0.006	48	69998	9.56	
59 Benzene	78		7.043				ND	7
60 1,2-Dichloroethane	62		7.116				ND	
* 64 Fluorobenzene (IS)	96	7.464	7.458	0.006	99	1464367	10.0	
68 Trichloroethene	95	7.964	7.945	0.019	91	6705	0.1888	
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	
80 cis-1,3-Dichloropropene	75		9.195				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.372				ND	
$ 83 Toluene-d8 (Surr)	98	9.518	9.518	0.000	93	1487678	10.0	
84 Toluene	92	9.598	9.598	0.000	85	2485	0.0275	
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.177	10.171	0.006	97	73720	1.76	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.579				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1141786	10.0	
115 Chlorobenzene	112		11.048				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	7
121 Styrene	104		11.603				ND	
122 Bromoform	173		11.762				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	94	536102	9.67	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	94	636973	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

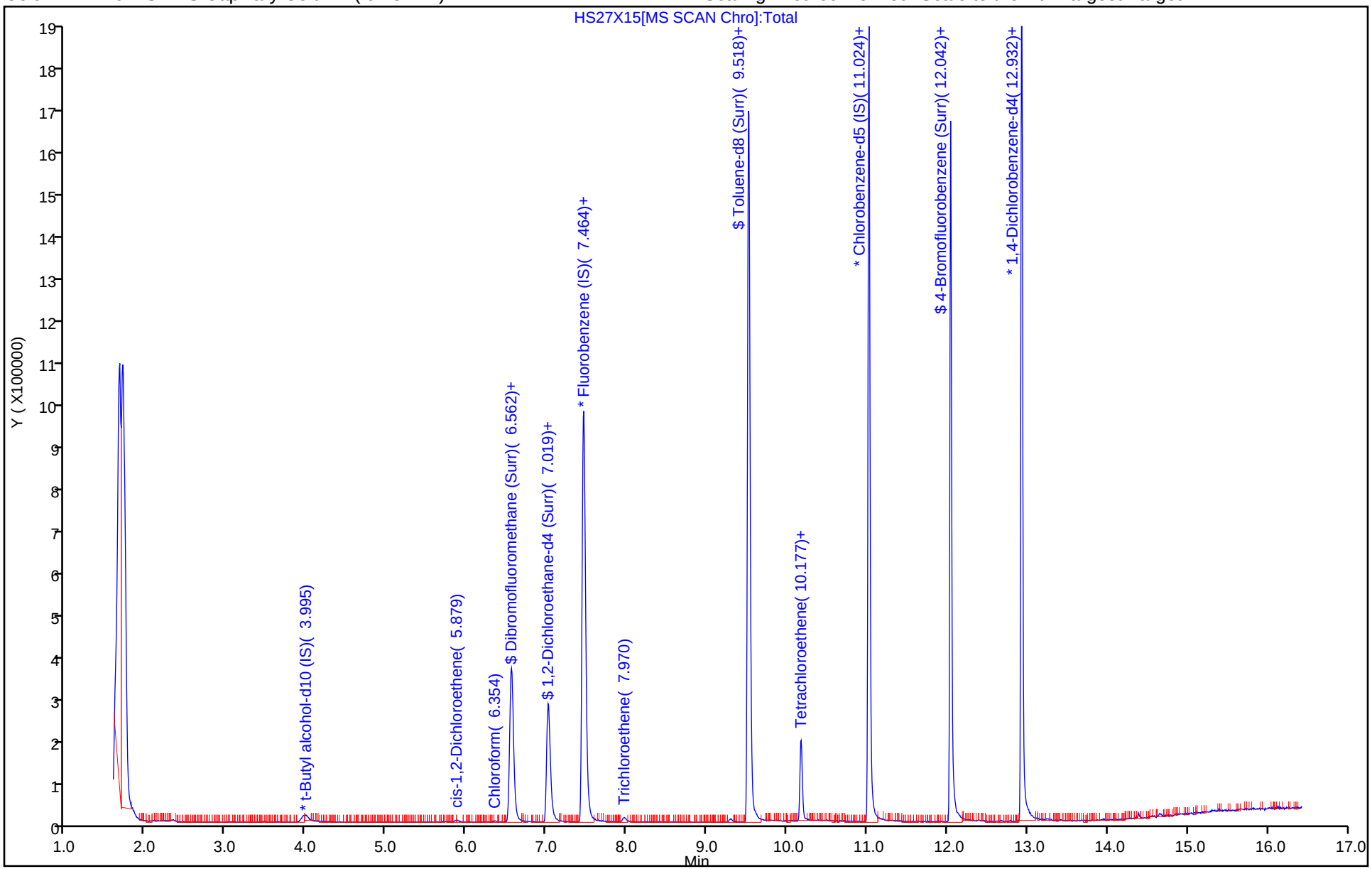
MSV_LLcentISS_00013 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 30-Sep-2024 08:54:33 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X15.D				
Injection Date:	27-Sep-2024 23:29:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	410-189680-A-7	Lab Sample ID:	410-189680-7	Worklist Smp#:	16
Client ID:	HD-COD-SW-16-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X15.D				
Lims ID:	410-189680-A-7				
Client ID:	HD-COD-SW-16-0/1-0				
Sample Type:	Client				
Inject. Date:	27-Sep-2024 23:29:30	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-016				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Sep-2024 08:54:32	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				

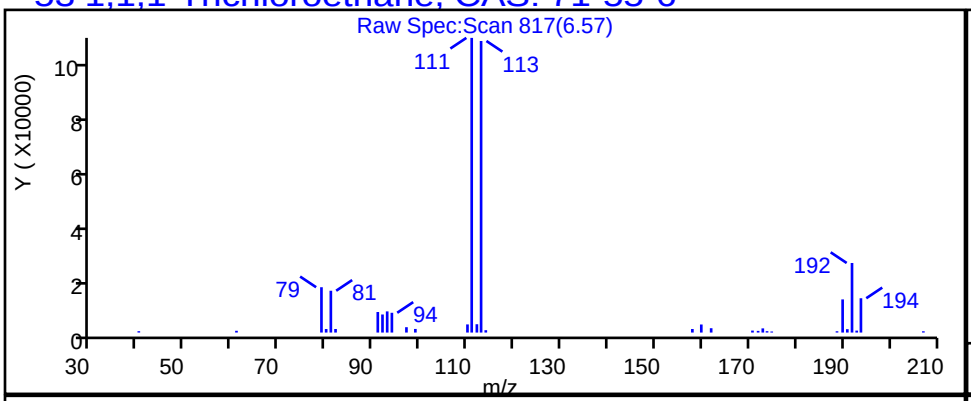
First Level Reviewer: FQ4L Date: 30-Sep-2024 08:54:32

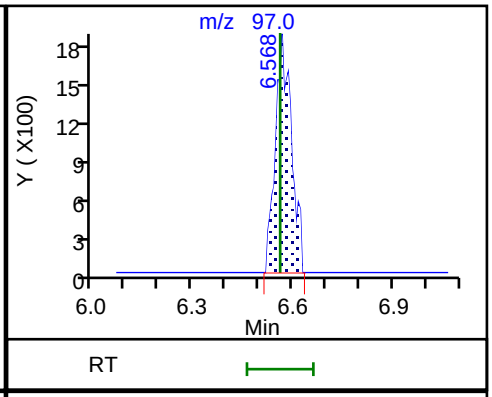
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.35
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.56	95.56
$ 83 Toluene-d8 (Surr)	10.0	10.0	100.19
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.67	96.68

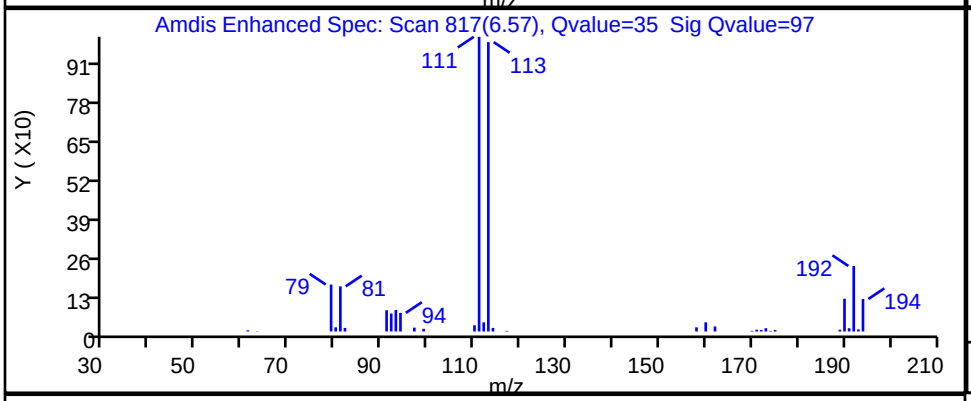
Eurofins Lancaster Laboratories Environment Testing, LLC

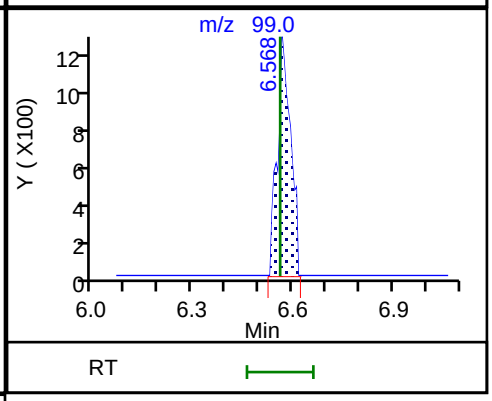
Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X15.D				
Injection Date:	27-Sep-2024 23:29:30	Instrument ID:	19094		
Lims ID:	410-189680-A-7	Lab Sample ID:	410-189680-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

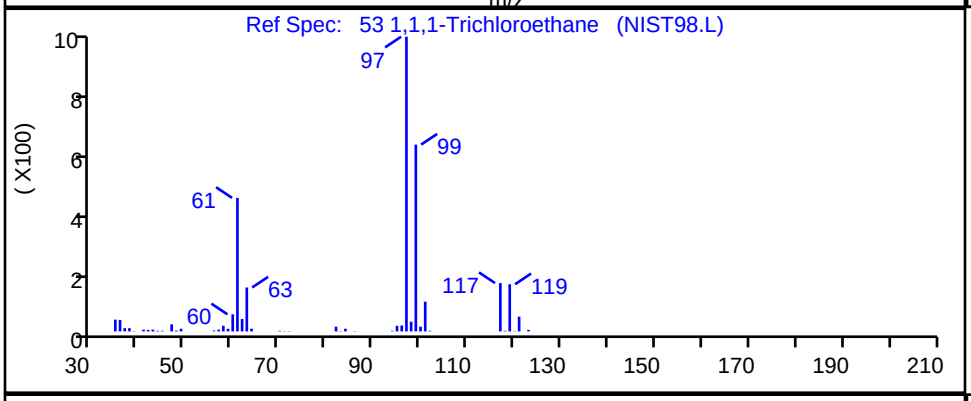
53 1,1,1-Trichloroethane, CAS: 71-55-6

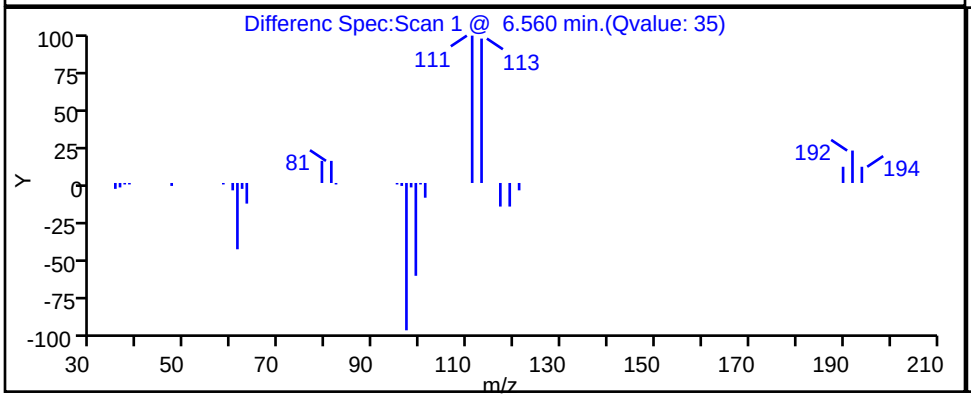


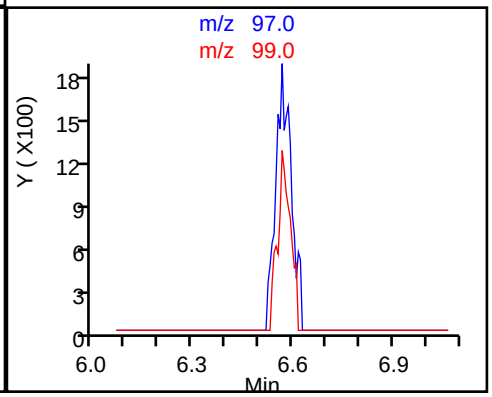








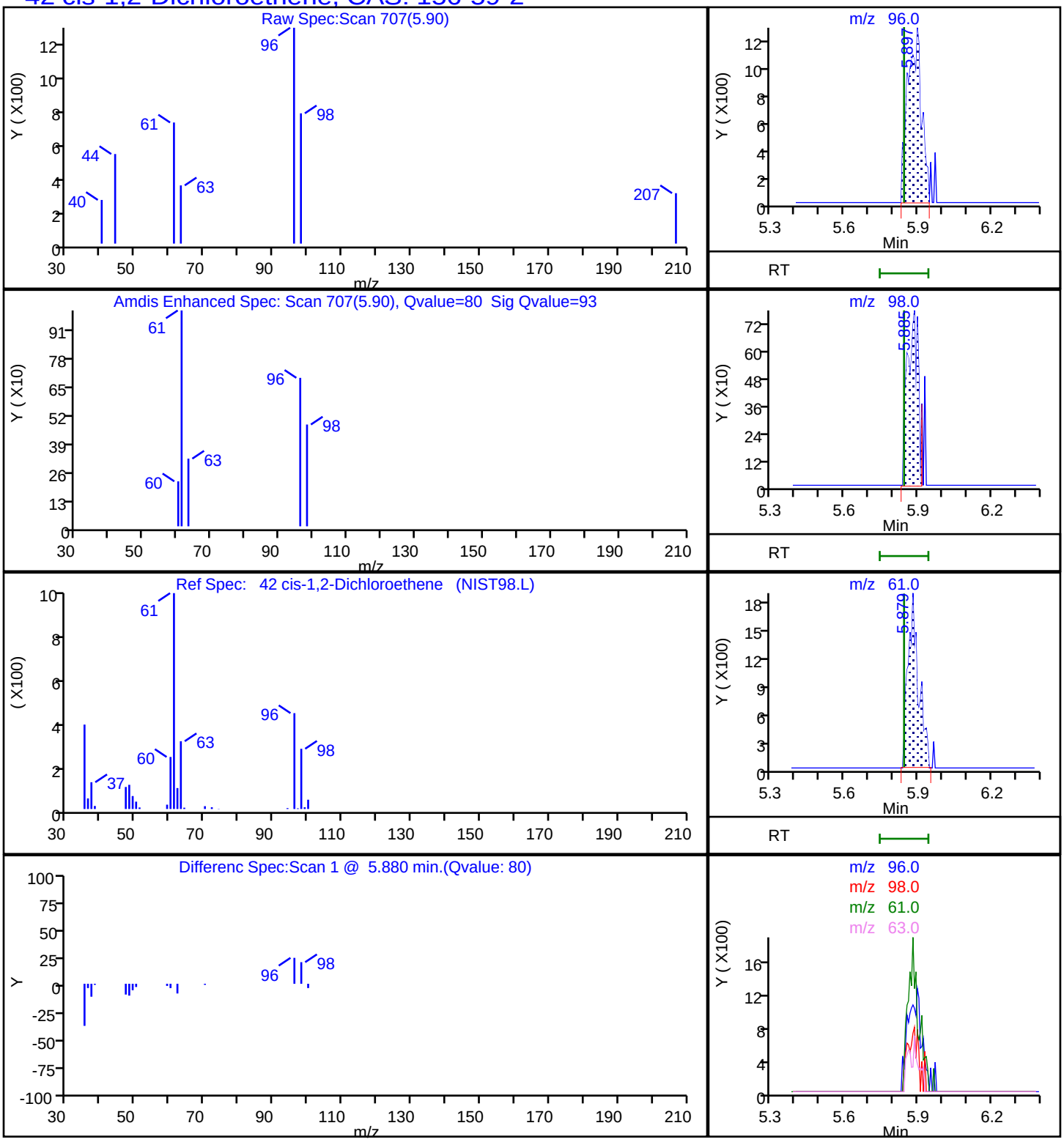




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X15.D				
Injection Date:	27-Sep-2024 23:29:30	Instrument ID:	19094		
Lims ID:	410-189680-A-7	Lab Sample ID:	410-189680-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

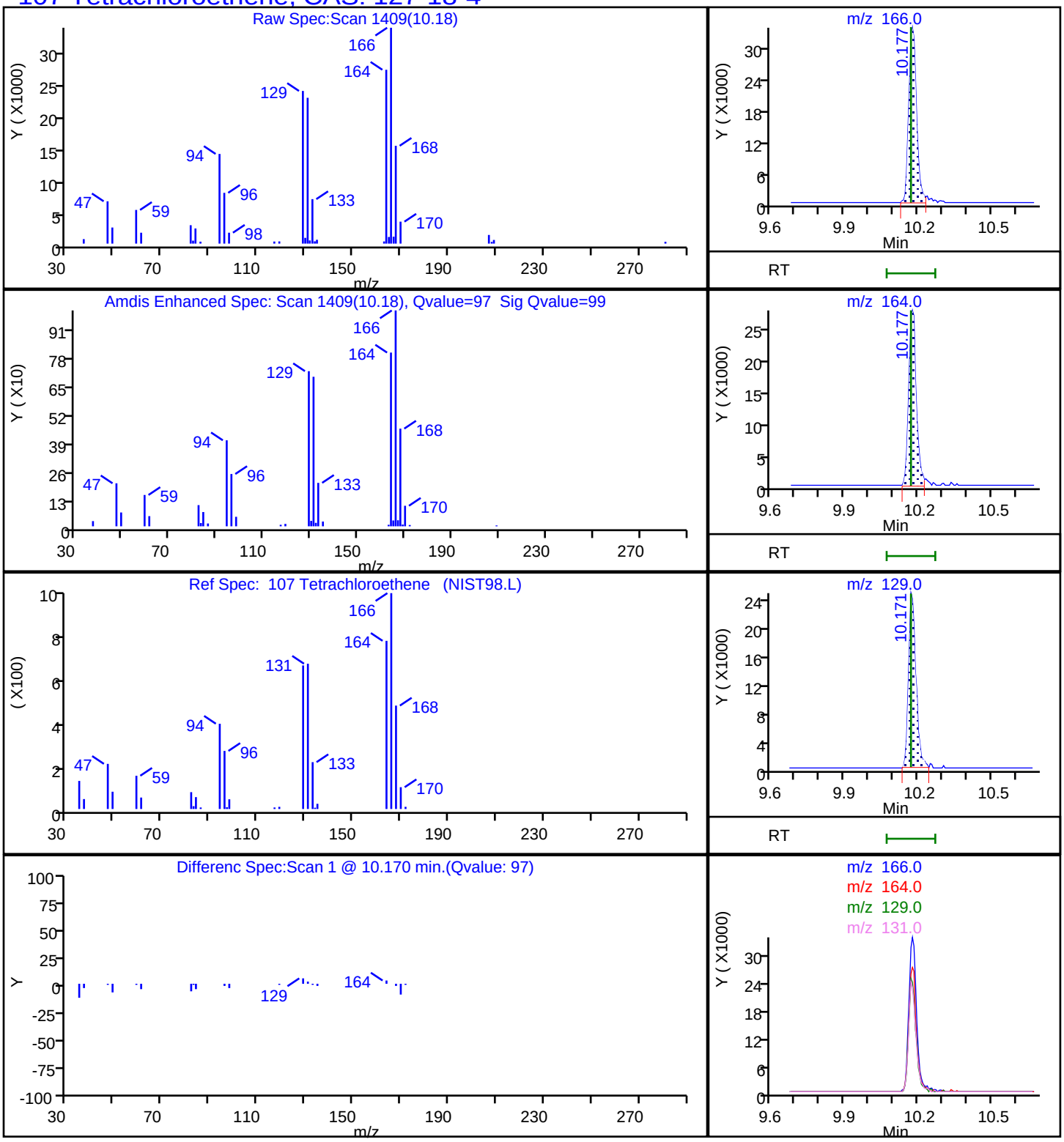
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X15.D				
Injection Date:	27-Sep-2024 23:29:30	Instrument ID:	19094		
Lims ID:	410-189680-A-7	Lab Sample ID:	410-189680-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

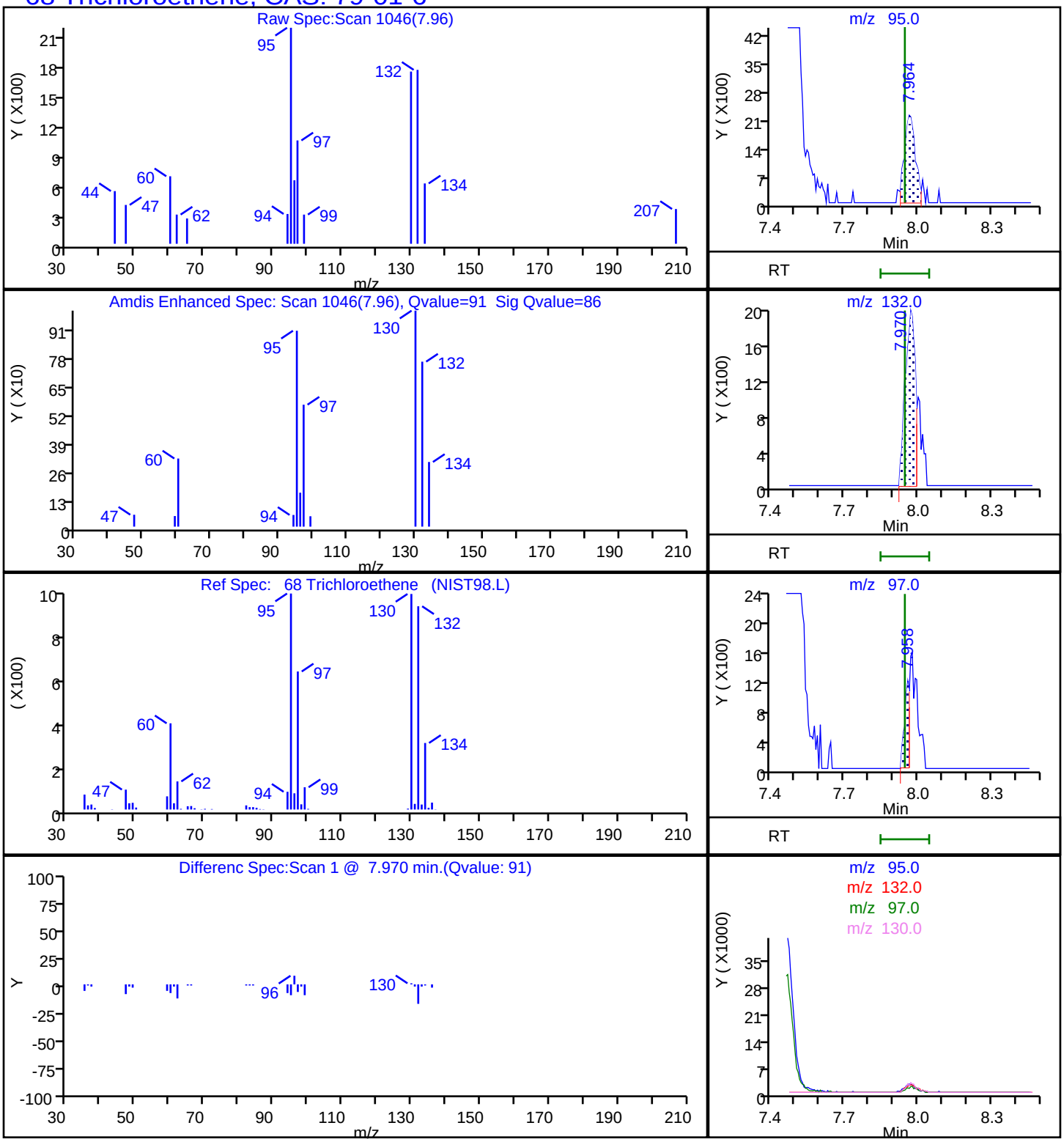
107 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X15.D				
Injection Date:	27-Sep-2024 23:29:30	Instrument ID:	19094		
Lims ID:	410-189680-A-7	Lab Sample ID:	410-189680-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

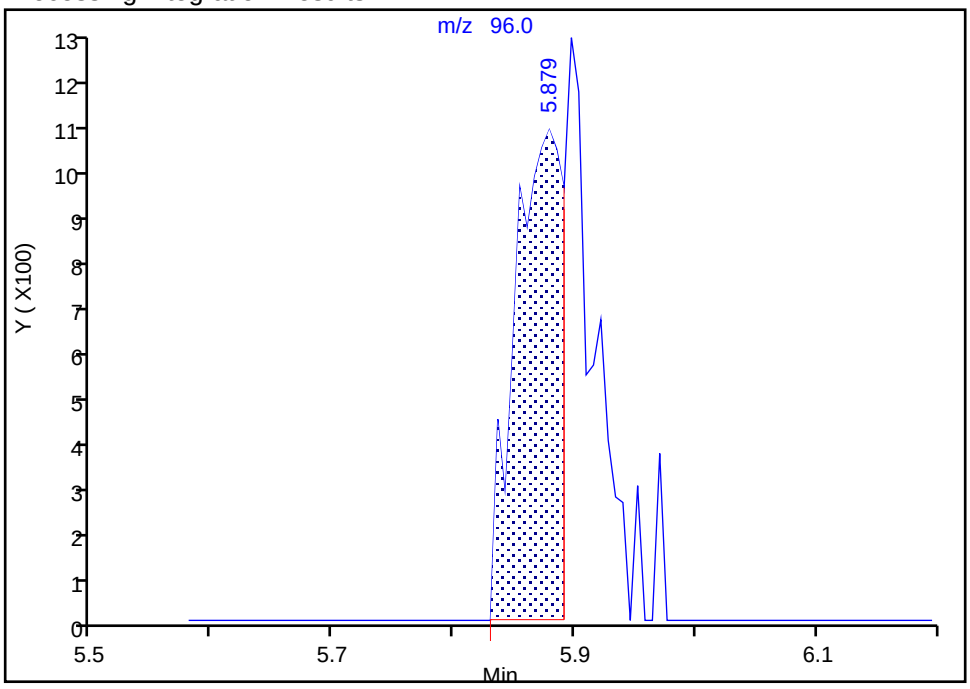
Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X15.D				
Injection Date:	27-Sep-2024 23:29:30	Instrument ID:	19094		
Lims ID:	410-189680-A-7	Lab Sample ID:	410-189680-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

Signal: 1

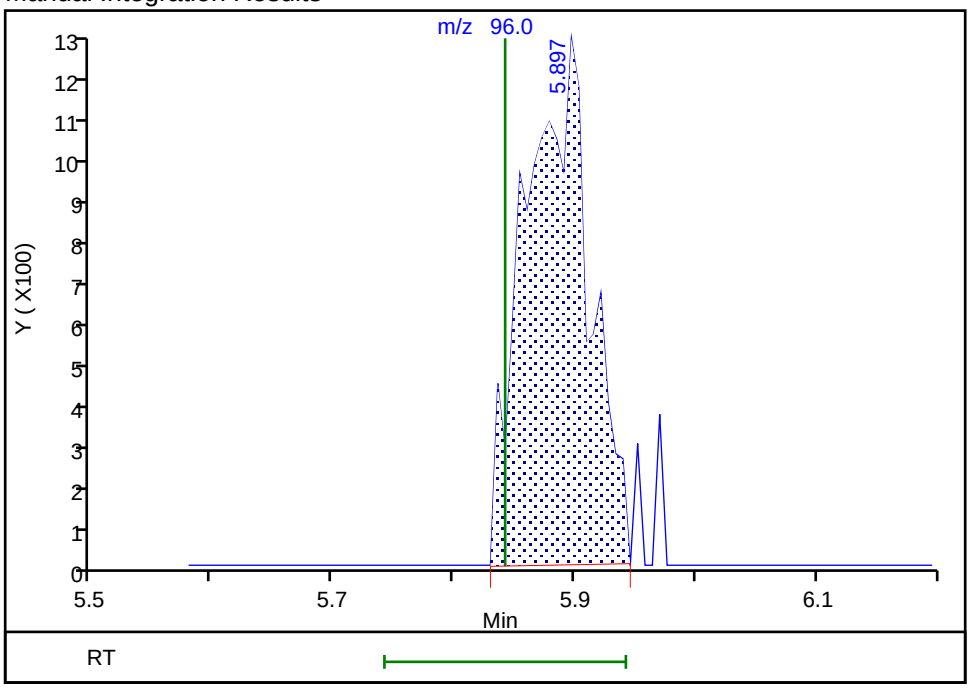
Processing Integration Results

RT: 5.88
Area: 2915
Amount: 0.082832
Amount Units: ug/l



Manual Integration Results

RT: 5.90
Area: 4737
Amount: 0.134606
Amount Units: ug/l



Reviewer: FQ4L, 30-Sep-2024 08:53:47 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.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0
Lab Sample ID: 410-189680-8

Matrix: Water
Lab File ID: HS27X20.D

Analysis Method: 8260D
Date Collected: 09/23/2024 11:30

Sample wt/vol: 25(mL)
Date Analyzed: 09/28/2024 01:13

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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	1.3		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	0.19	J	0.50	0.10
75-35-4	1,1-Dichloroethene	0.11	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.47	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	21		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0
Lab Sample ID: 410-189680-8

Matrix: Water
Lab File ID: HS27X20.D

Analysis Method: 8260D
Date Collected: 09/23/2024 11:30

Sample wt/vol: 25(mL)
Date Analyzed: 09/28/2024 01:13

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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	0.81		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)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X20.D
Lims ID: 410-189680-A-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 28-Sep-2024 01:13:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-021
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Sep-2024 09:03:02 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 09:03:02

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	5 Chloromethane	50		2.056				ND	7
	6 Vinyl chloride	62		2.166				ND	7
	9 Bromomethane	94		2.477				ND	
	10 Chloroethane	64		2.538				ND	
	17 1,1-Dichloroethene	96	3.343	3.337	0.006	93	2788	0.1063	
	19 Acetone	43		3.367				ND	
	23 Carbon disulfide	76		3.629				ND	7
	27 Methylene Chloride	84		3.952				ND	
*	28 t-Butyl alcohol-d10 (IS)	65	3.983	3.983	0.000	22	78859	50.0	
	32 Methyl tert-butyl ether	73		4.330				ND	
	33 trans-1,2-Dichloroethene	96		4.349				ND	
	36 1,1-Dichloroethane	63	5.019	5.007	0.012	90	11272	0.1924	
	41 2-Butanone (MEK)	43		5.812				ND	
	42 cis-1,2-Dichloroethene	96	5.860	5.842	0.018	77	16329	0.4677	
	48 Chlorobromomethane	128		6.184				ND	
	50 Chloroform	83	6.354	6.336	0.018	15	4878	0.0839	
$	52 Dibromofluoromethane (Surr)	113	6.555	6.549	0.006	94	367588	10.3	
	53 1,1,1-Trichloroethane	97	6.568	6.562	0.006	43	64218	1.29	
	56 Carbon tetrachloride	117		6.781				ND	
$	58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.007	0.012	48	73371	10.1	
	59 Benzene	78		7.043				ND	7
	60 1,2-Dichloroethane	62		7.116				ND	
*	64 Fluorobenzene (IS)	96	7.458	7.458	0.000	99	1452903	10.0	
	68 Trichloroethene	95	7.958	7.945	0.013	96	28521	0.8092	
	70 1,2-Dichloropropane	63		8.281				ND	
	76 Dichlorobromomethane	83		8.634				ND	
	80 cis-1,3-Dichloropropene	75		9.195				ND	
	82 4-Methyl-2-pentanone (MIBK)	43		9.372				ND	
$	83 Toluene-d8 (Surr)	98	9.518	9.518	0.000	93	1478994	9.95	
	84 Toluene	92		9.598				ND	7
	85 trans-1,3-Dichloropropene	75		9.872				ND	
	106 1,1,2-Trichloroethane	97		10.079				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.170	10.171	-0.001	98	863737	20.6	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	7
112 Ethylene Dibromide	107		10.579				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1142960	10.0	
115 Chlorobenzene	112		11.048				ND	
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	
120 o-Xylene	106		11.591				ND	
121 Styrene	104		11.603				ND	
122 Bromoform	173		11.762				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	93	525459	9.47	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	94	631529	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00013 Amount Added: 5.00 Units: uL Run Reagent

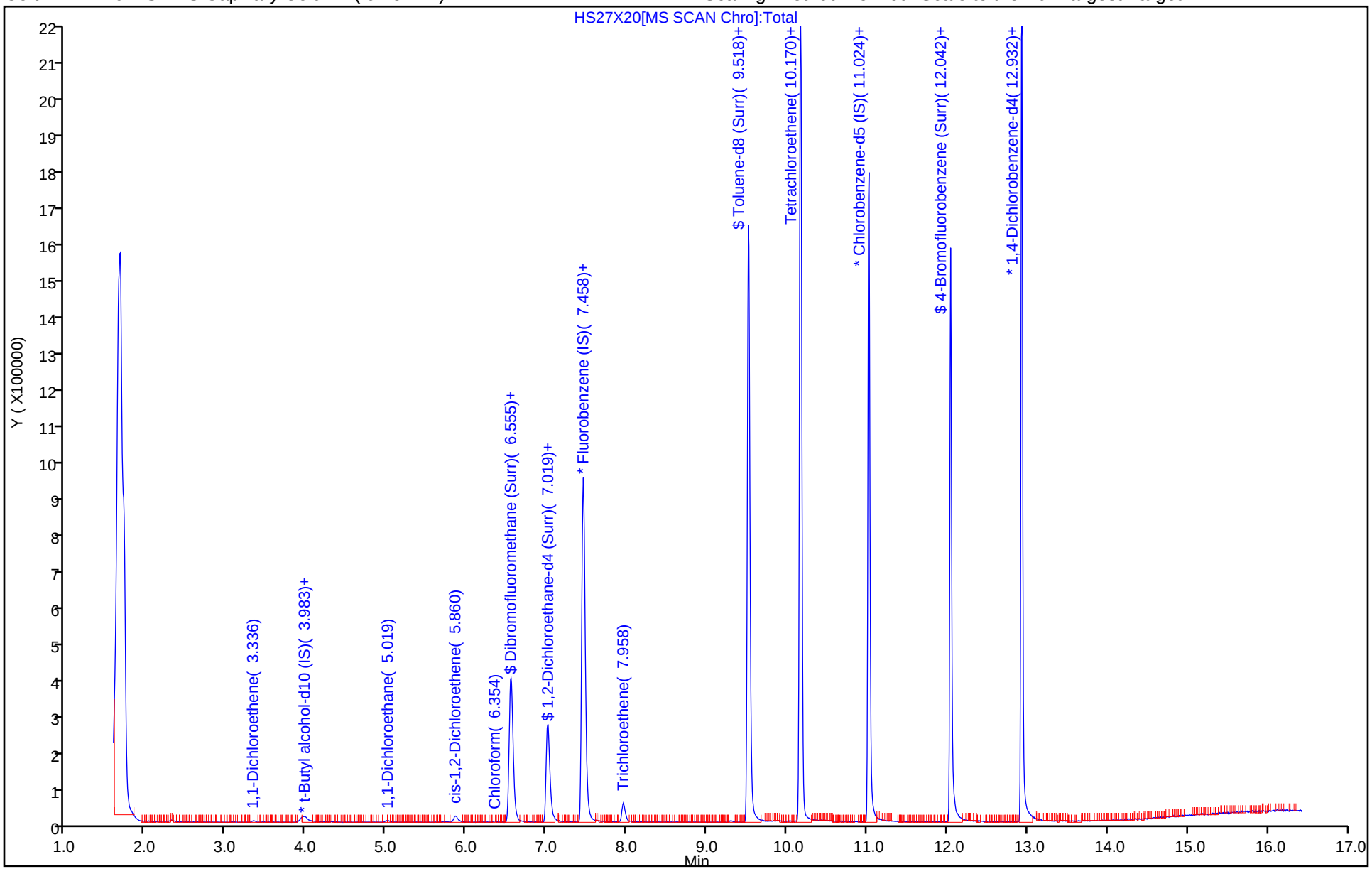
Report Date: 30-Sep-2024 09:03:02 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X20.D

Injection Date:	28-Sep-2024 01:13:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	410-189680-A-8	Lab Sample ID:	410-189680-8	Worklist Smp#:	21
Client ID:	HD-COD-SW-17-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X20.D				
Lims ID:	410-189680-A-8				
Client ID:	HD-COD-SW-17-0/1-0				
Sample Type:	Client				
Inject. Date:	28-Sep-2024 01:13:30	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-021				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Sep-2024 09:03:02	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				

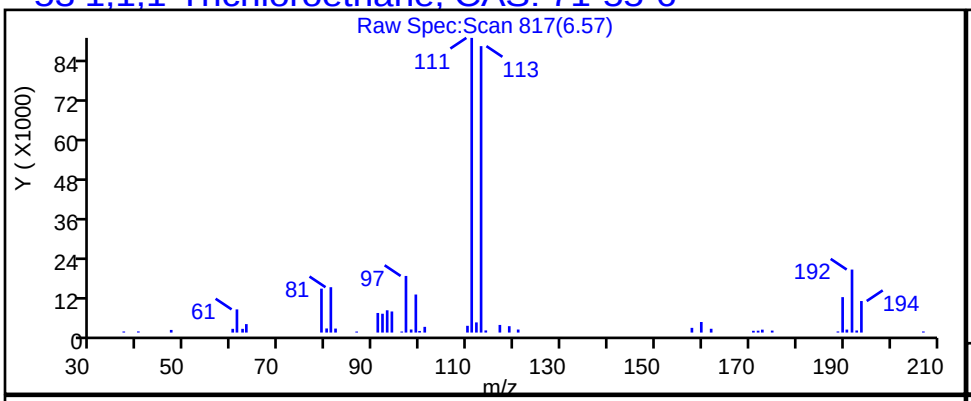
First Level Reviewer: FQ4L Date: 30-Sep-2024 09:03:02

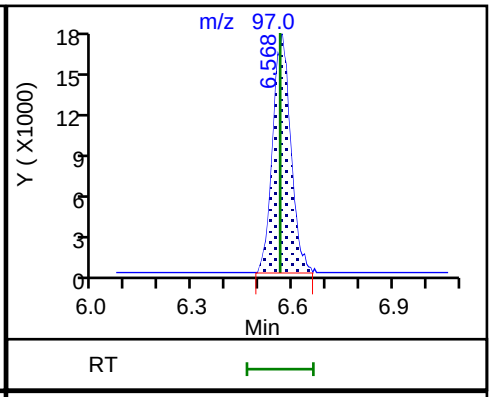
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.31
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	100.95
$ 83 Toluene-d8 (Surr)	10.0	9.95	99.50
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.47	94.66

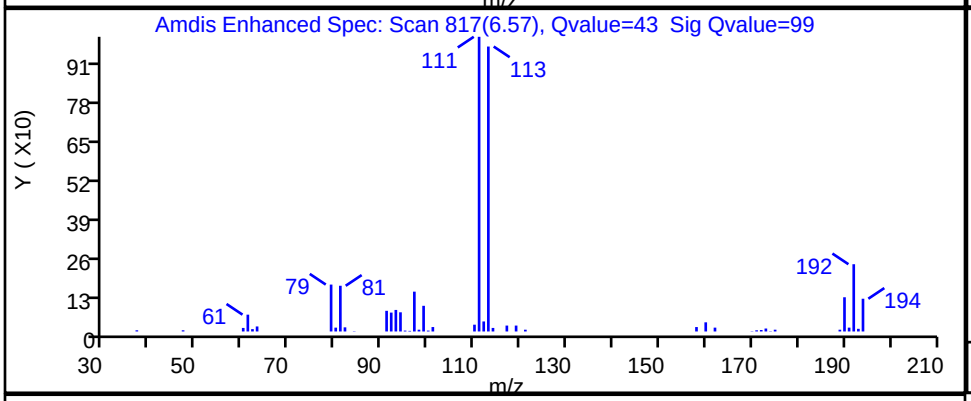
Eurofins Lancaster Laboratories Environment Testing, LLC

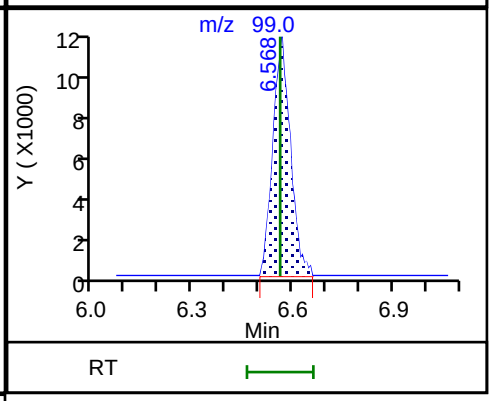
Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X20.D				
Injection Date:	28-Sep-2024 01:13:30	Instrument ID:	19094		
Lims ID:	410-189680-A-8	Lab Sample ID:	410-189680-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

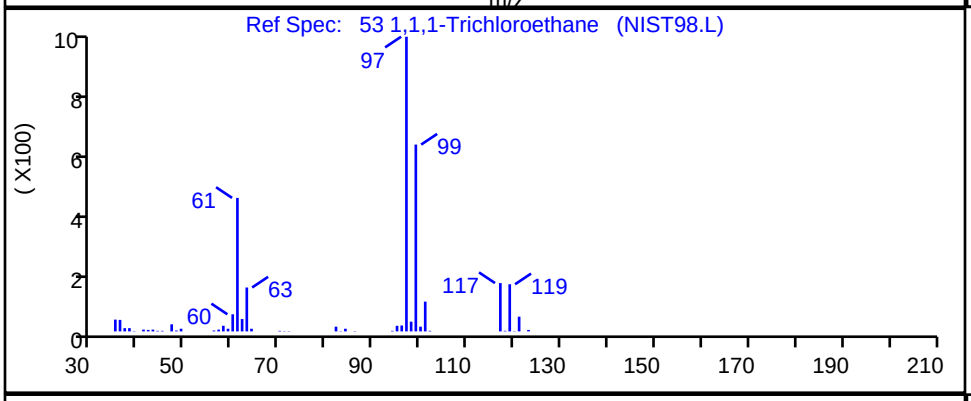
53 1,1,1-Trichloroethane, CAS: 71-55-6

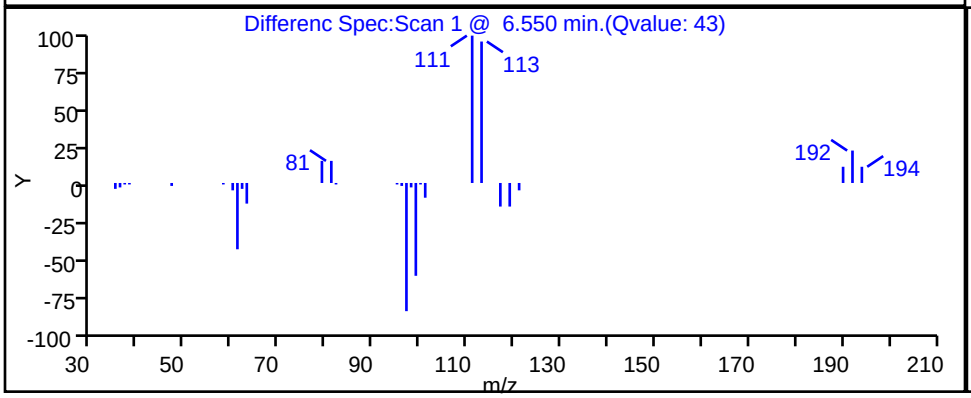


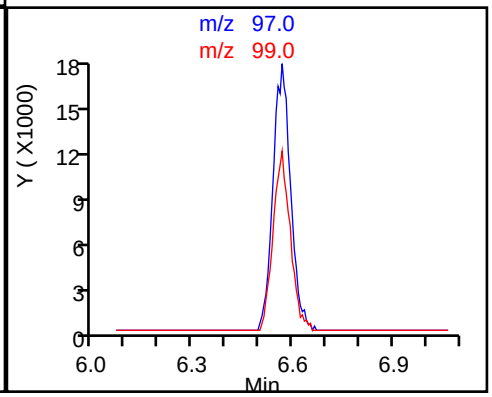








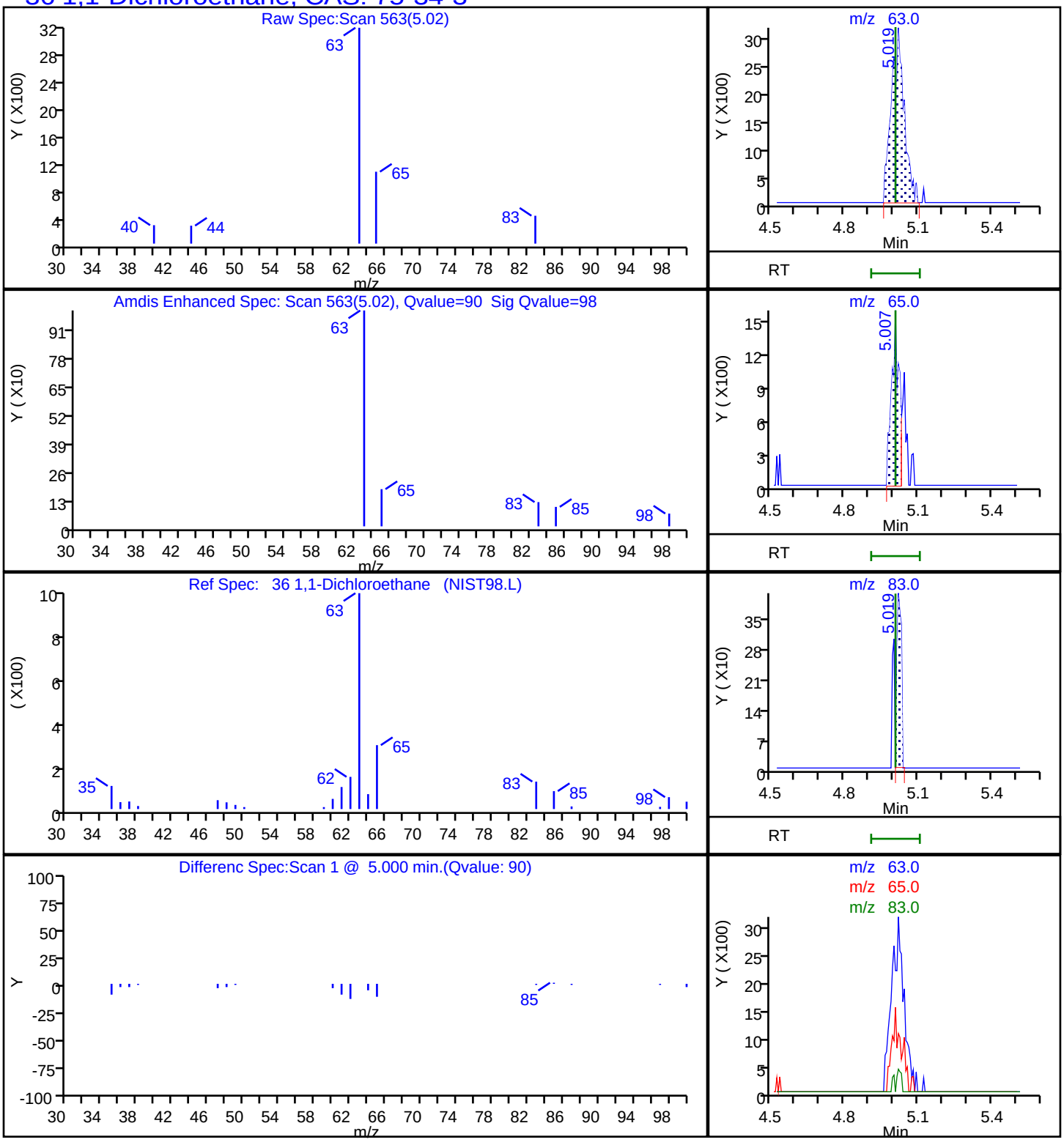




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X20.D				
Injection Date:	28-Sep-2024 01:13:30	Instrument ID:	19094		
Lims ID:	410-189680-A-8	Lab Sample ID:	410-189680-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

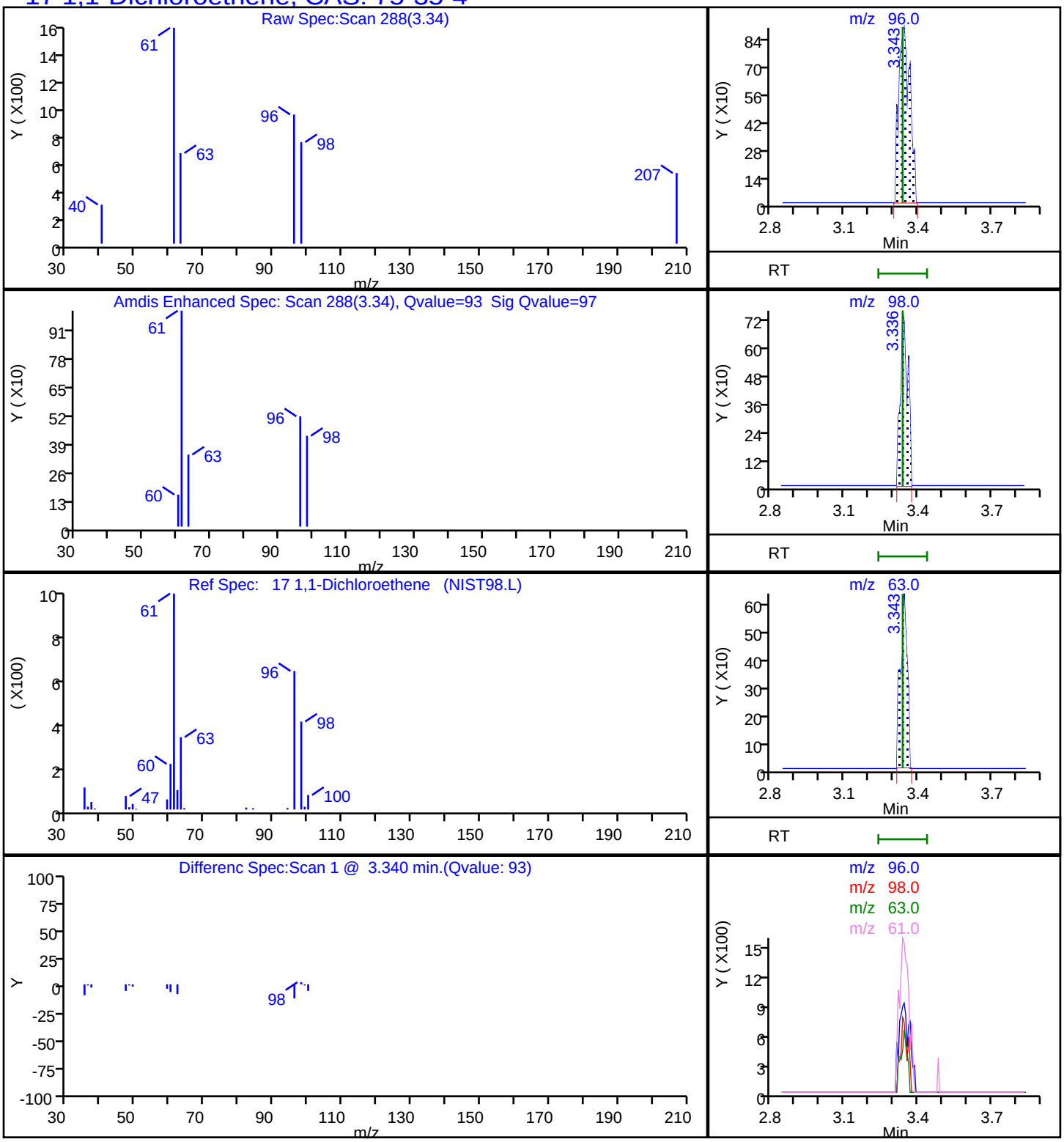
36 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X20.D				
Injection Date:	28-Sep-2024 01:13:30	Instrument ID:	19094		
Lims ID:	410-189680-A-8	Lab Sample ID:	410-189680-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

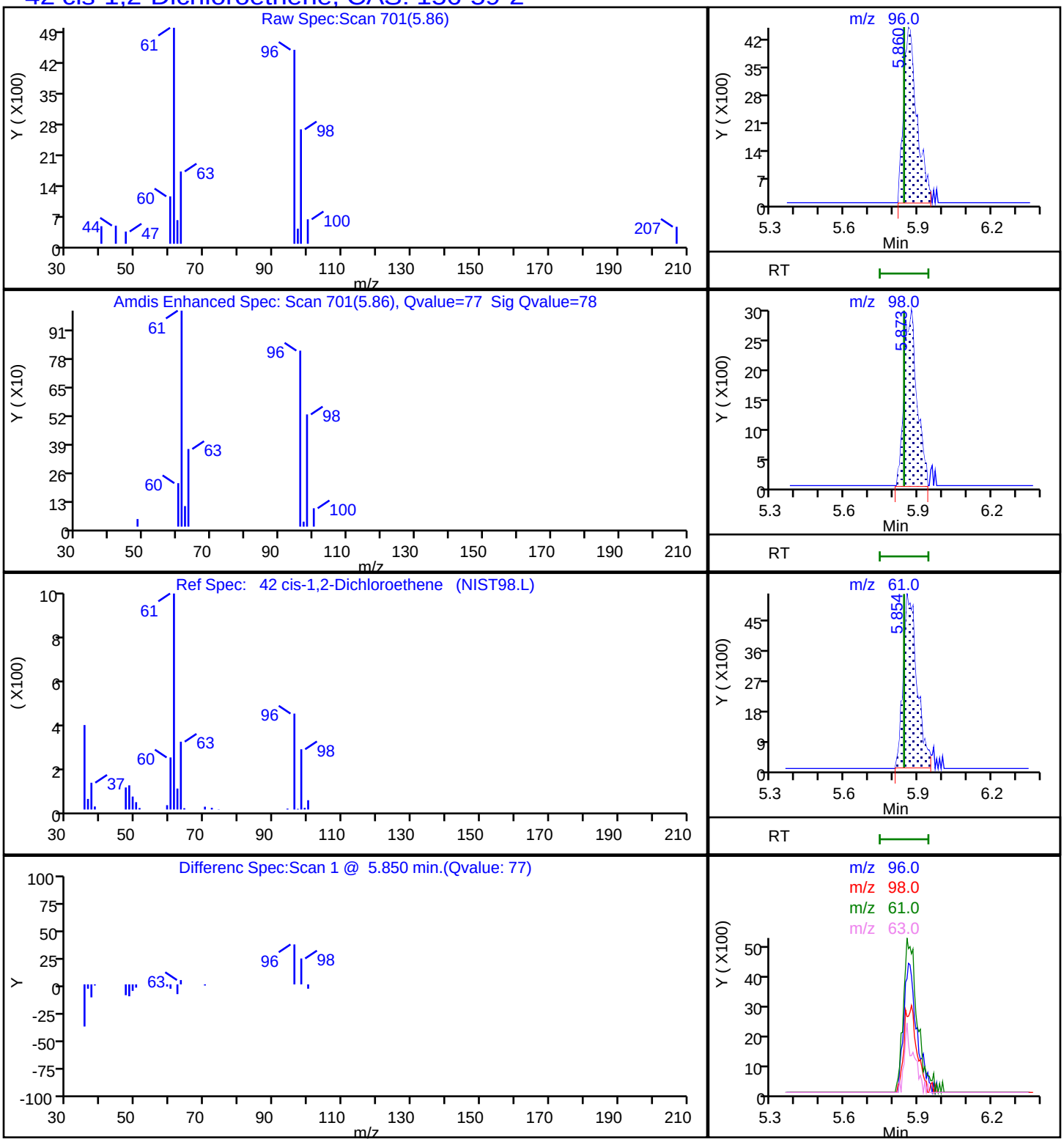
17 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X20.D				
Injection Date:	28-Sep-2024 01:13:30	Instrument ID:	19094		
Lims ID:	410-189680-A-8	Lab Sample ID:	410-189680-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

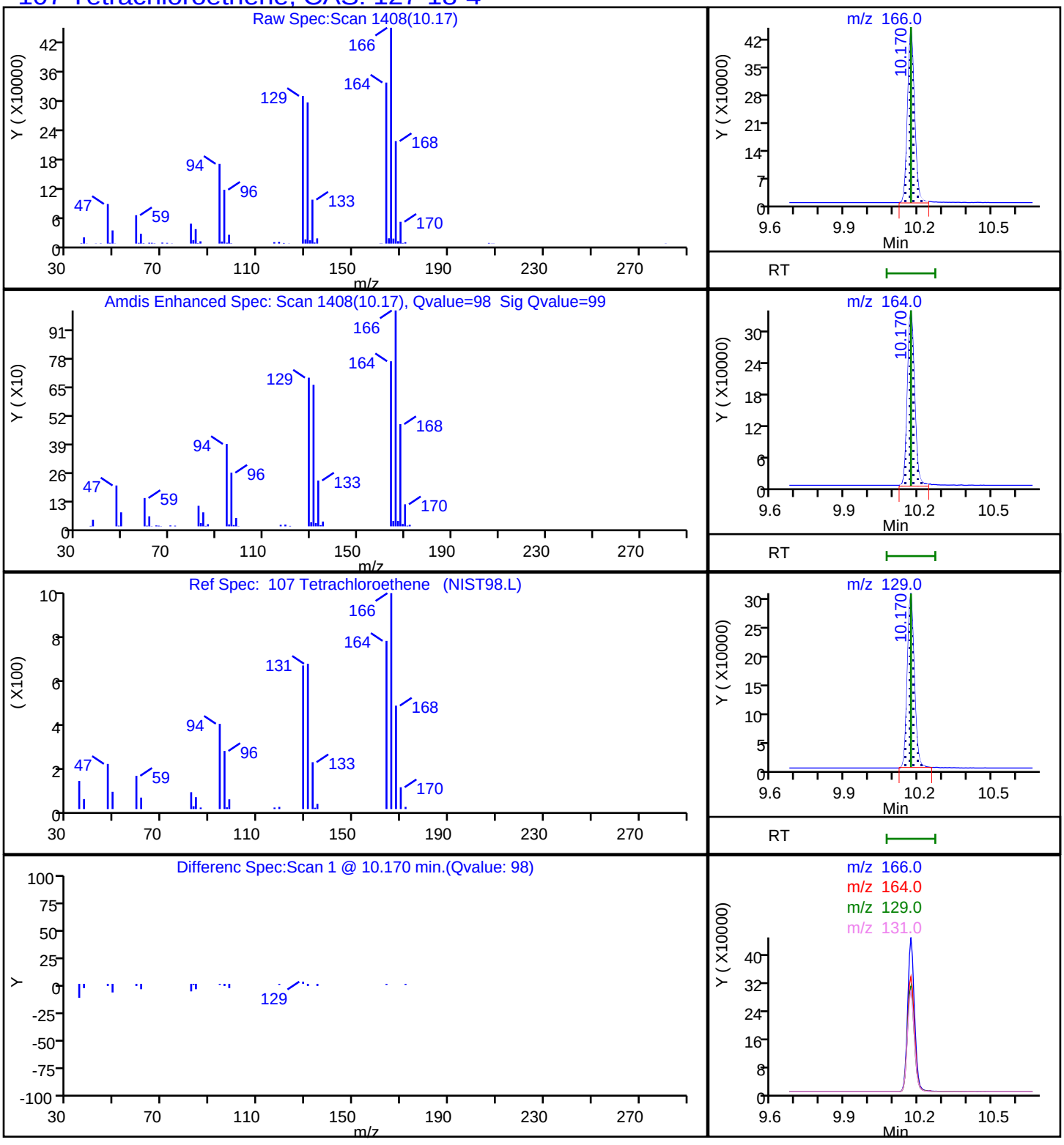
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X20.D				
Injection Date:	28-Sep-2024 01:13:30	Instrument ID:	19094		
Lims ID:	410-189680-A-8	Lab Sample ID:	410-189680-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

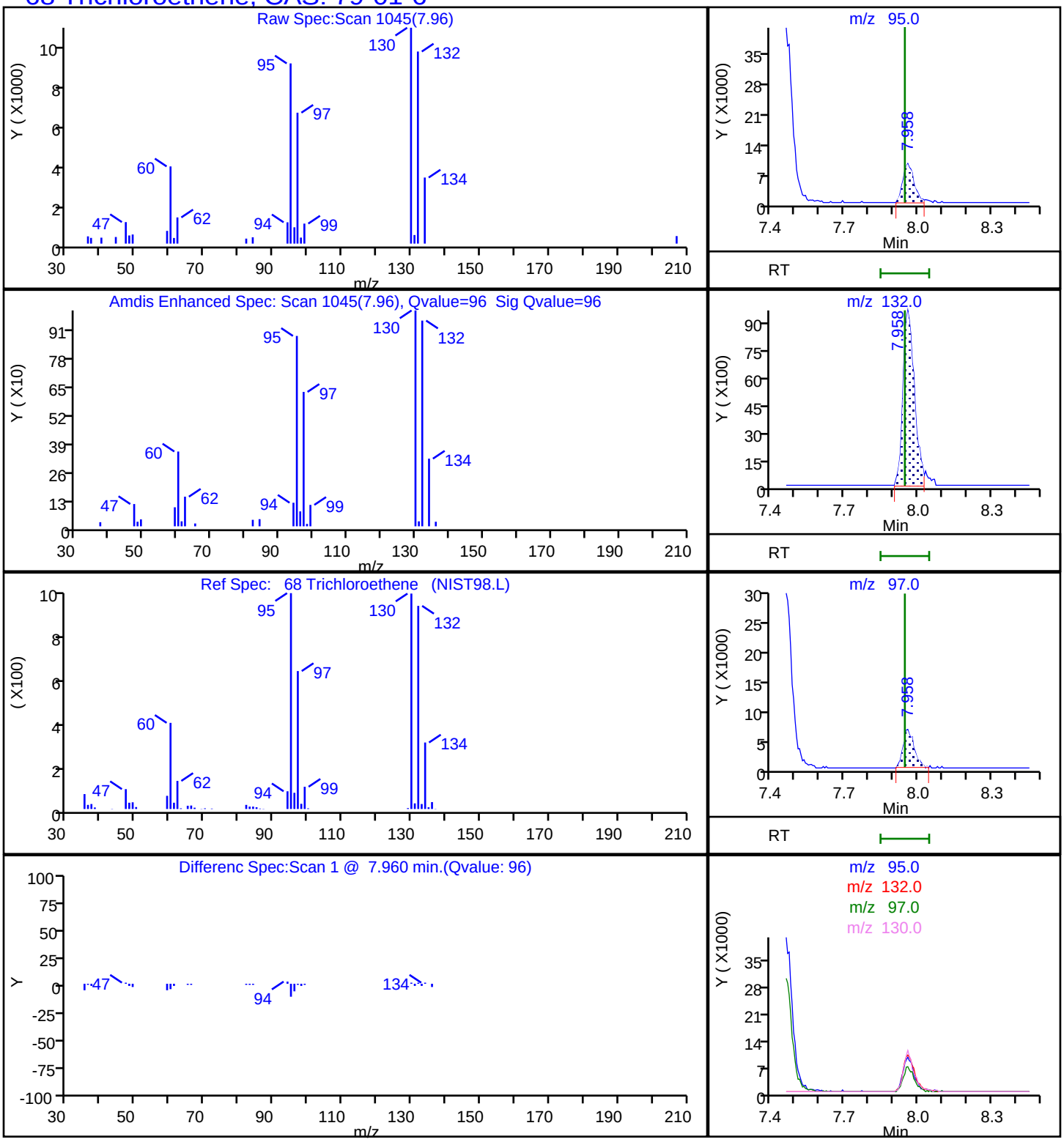
107 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X20.D				
Injection Date:	28-Sep-2024 01:13:30	Instrument ID:	19094		
Lims ID:	410-189680-A-8	Lab Sample ID:	410-189680-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



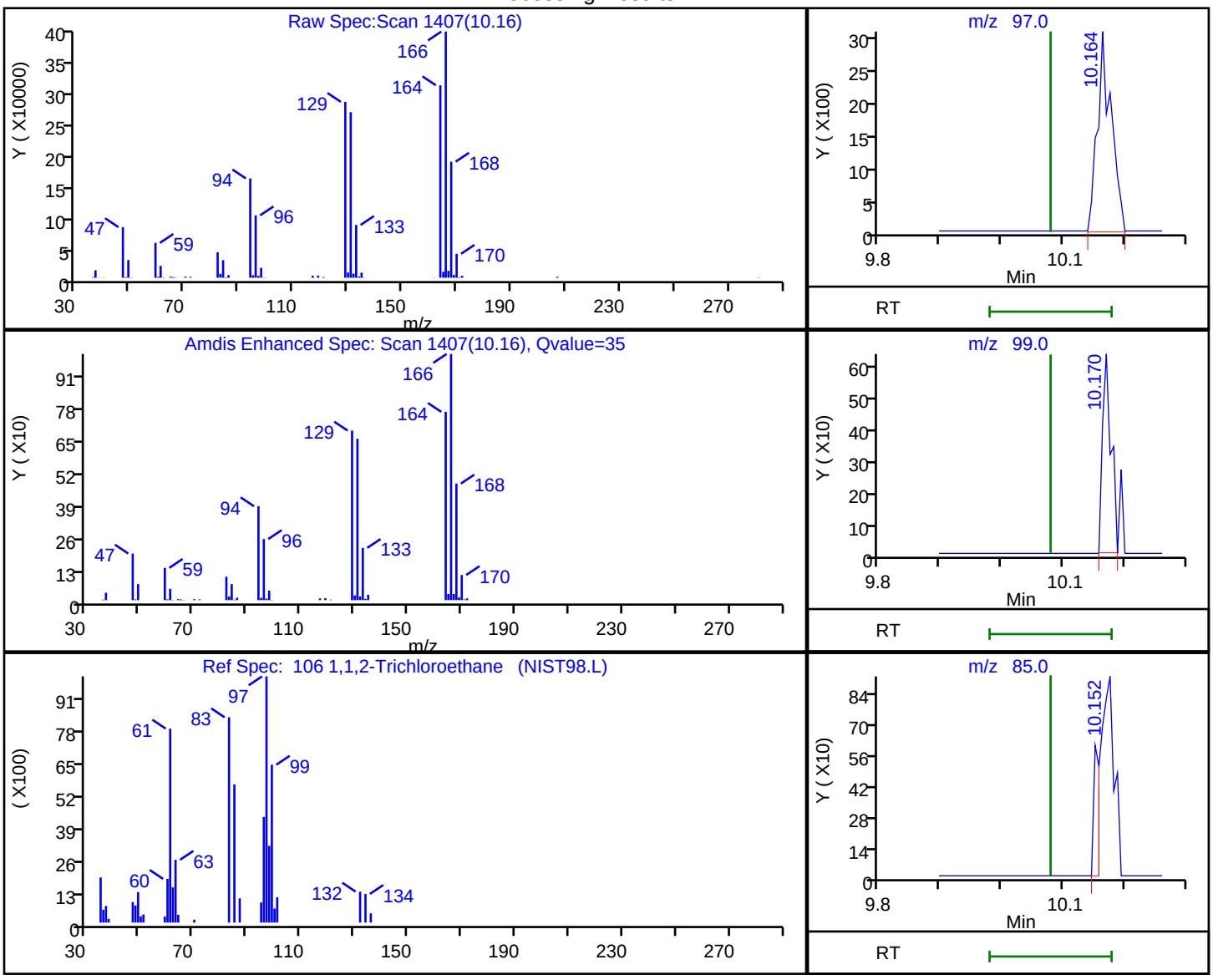
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X20.D				
Injection Date:	28-Sep-2024 01:13:30	Instrument ID:	19094		
Lims ID:	410-189680-A-8	Lab Sample ID:	410-189680-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

106 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
10.16	97.00	4817	0.200544
10.17	99.00	623	
10.15	85.00	401	
10.17	83.00	13800	

Reviewer: FQ4L, 30-Sep-2024 09:02:42 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.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0
Lab Sample ID: 410-189680-9

Matrix: Water
Lab File ID: HS27X16.D

Analysis Method: 8260D
Date Collected: 09/23/2024 12:15

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 23:49

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.63		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	3.4		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0
Lab Sample ID: 410-189680-9

Matrix: Water
Lab File ID: HS27X16.D

Analysis Method: 8260D
Date Collected: 09/23/2024 12:15

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 23:49

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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	0.13	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)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X16.D
Lims ID: 410-189680-A-9
Client ID: HD-COD-SW-26-0/1-0
Sample Type: Client
Inject. Date: 27-Sep-2024 23:49:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-017
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Sep-2024 08:56:18 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:56:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.056				ND	
6 Vinyl chloride	62		2.166				ND	
9 Bromomethane	94		2.477				ND	
10 Chloroethane	64		2.538				ND	
17 1,1-Dichloroethene	96	3.337	3.337	-0.001	88	2305	0.0848	
19 Acetone	43		3.367				ND	
23 Carbon disulfide	76		3.629				ND	7
27 Methylene Chloride	84		3.952				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.977	3.983	-0.006	22	78755	50.0	
32 Methyl tert-butyl ether	73		4.330				ND	
33 trans-1,2-Dichloroethene	96		4.349				ND	
36 1,1-Dichloroethane	63		5.007				ND	
41 2-Butanone (MEK)	43		5.812				ND	
42 cis-1,2-Dichloroethene	96		5.842				ND	U
48 Chlorobromomethane	128		6.184				ND	
50 Chloroform	83	6.342	6.336	0.006	93	37989	0.6306	
$ 52 Dibromofluoromethane (Surr)	113	6.555	6.549	0.006	93	382466	10.4	
53 1,1,1-Trichloroethane	97		6.562				ND	7
56 Carbon tetrachloride	117		6.781				ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.007	0.012	48	73512	9.77	
59 Benzene	78		7.043				ND	
60 1,2-Dichloroethane	62		7.116				ND	
* 64 Fluorobenzene (IS)	96	7.458	7.458	0.000	99	1504890	10.0	
68 Trichloroethene	95	7.964	7.945	0.019	93	4881	0.1337	M
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	7
80 cis-1,3-Dichloropropene	75		9.195				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.372				ND	
$ 83 Toluene-d8 (Surr)	98	9.518	9.518	0.000	93	1524372	10.0	
84 Toluene	92		9.598				ND	7
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.171	10.171	0.000	99	144134	3.35	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.579				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1171046	10.0	
115 Chlorobenzene	112		11.048				ND	
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	
121 Styrene	104		11.603				ND	
122 Bromoform	173		11.762				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	94	539557	9.49	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	94	638020	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

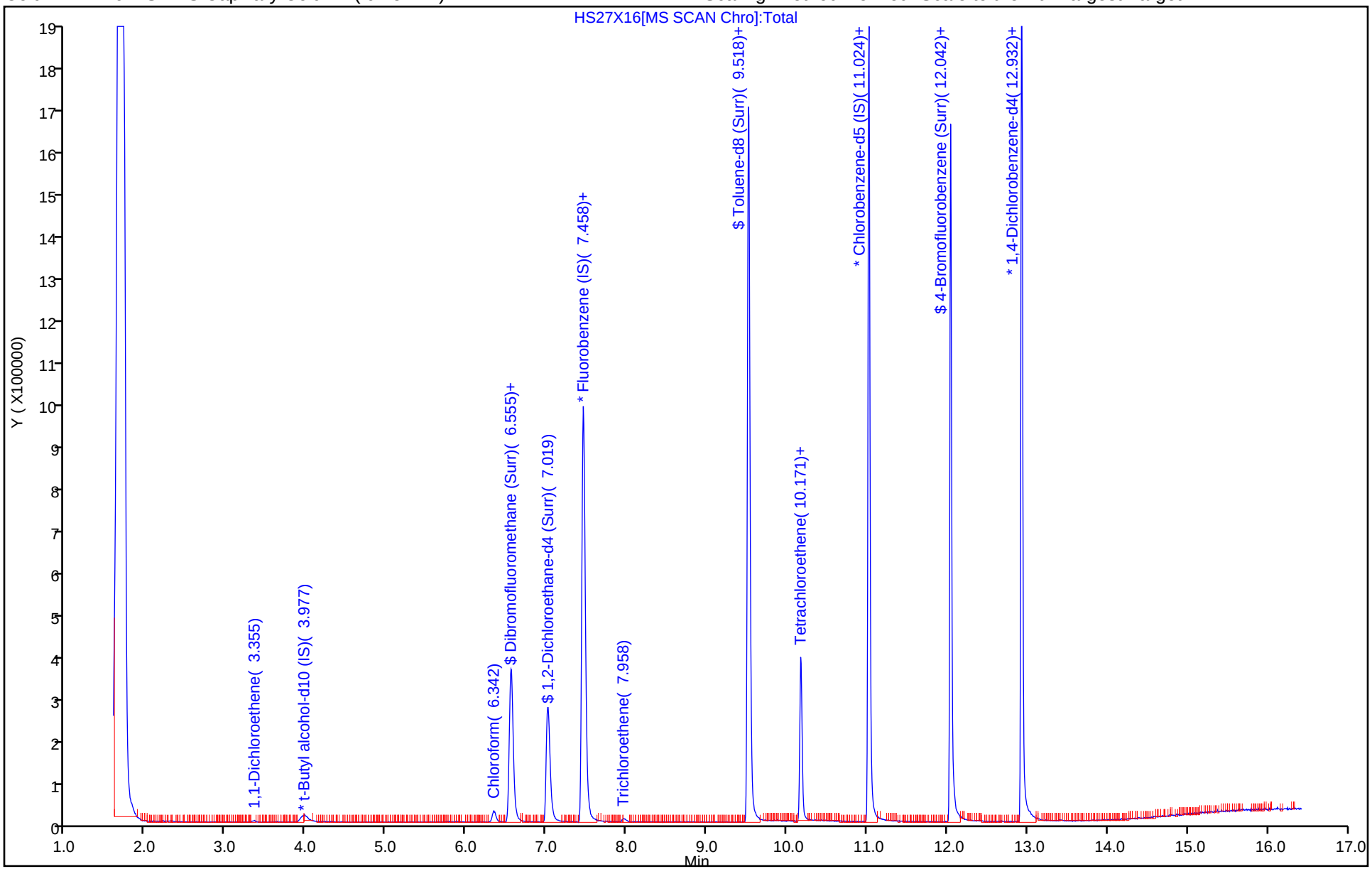
MSV_LLcentISS_00013 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 30-Sep-2024 08:56:19 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X16.D				
Injection Date:	27-Sep-2024 23:49:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	410-189680-A-9	Lab Sample ID:	410-189680-9	Worklist Smp#:	17
Client ID:	HD-COD-SW-26-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X16.D				
Lims ID:	410-189680-A-9				
Client ID:	HD-COD-SW-26-0/1-0				
Sample Type:	Client				
Inject. Date:	27-Sep-2024 23:49:30	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-017				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Sep-2024 08:56:18	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:56:18

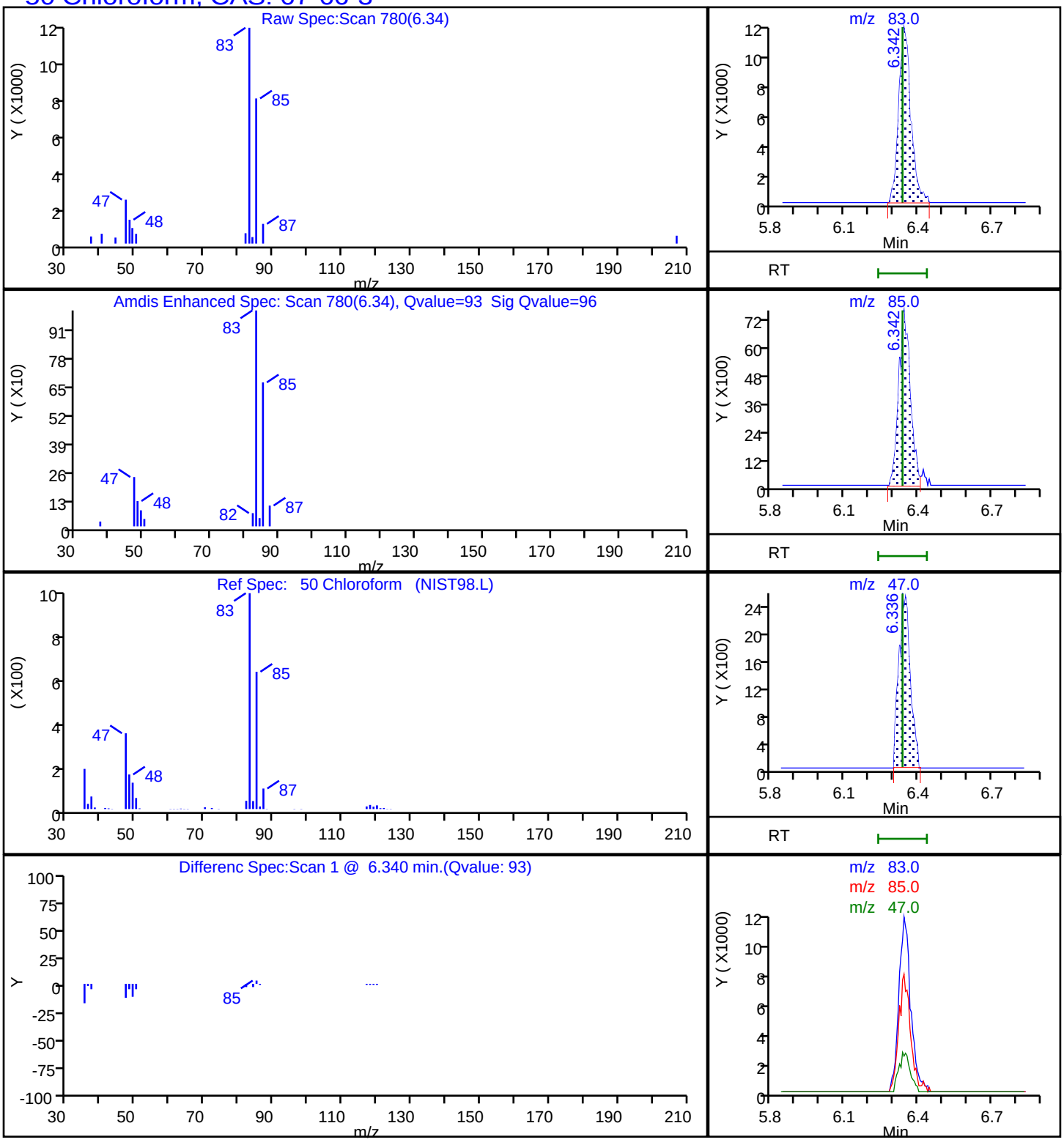
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.4	103.78
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.77	97.65
$ 83 Toluene-d8 (Surr)	10.0	10.0	100.09
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.49	94.87

Report Date: 30-Sep-2024 08:56:19 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X16.D				
Injection Date:	27-Sep-2024 23:49:30	Instrument ID:	19094		
Lims ID:	410-189680-A-9	Lab Sample ID:	410-189680-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

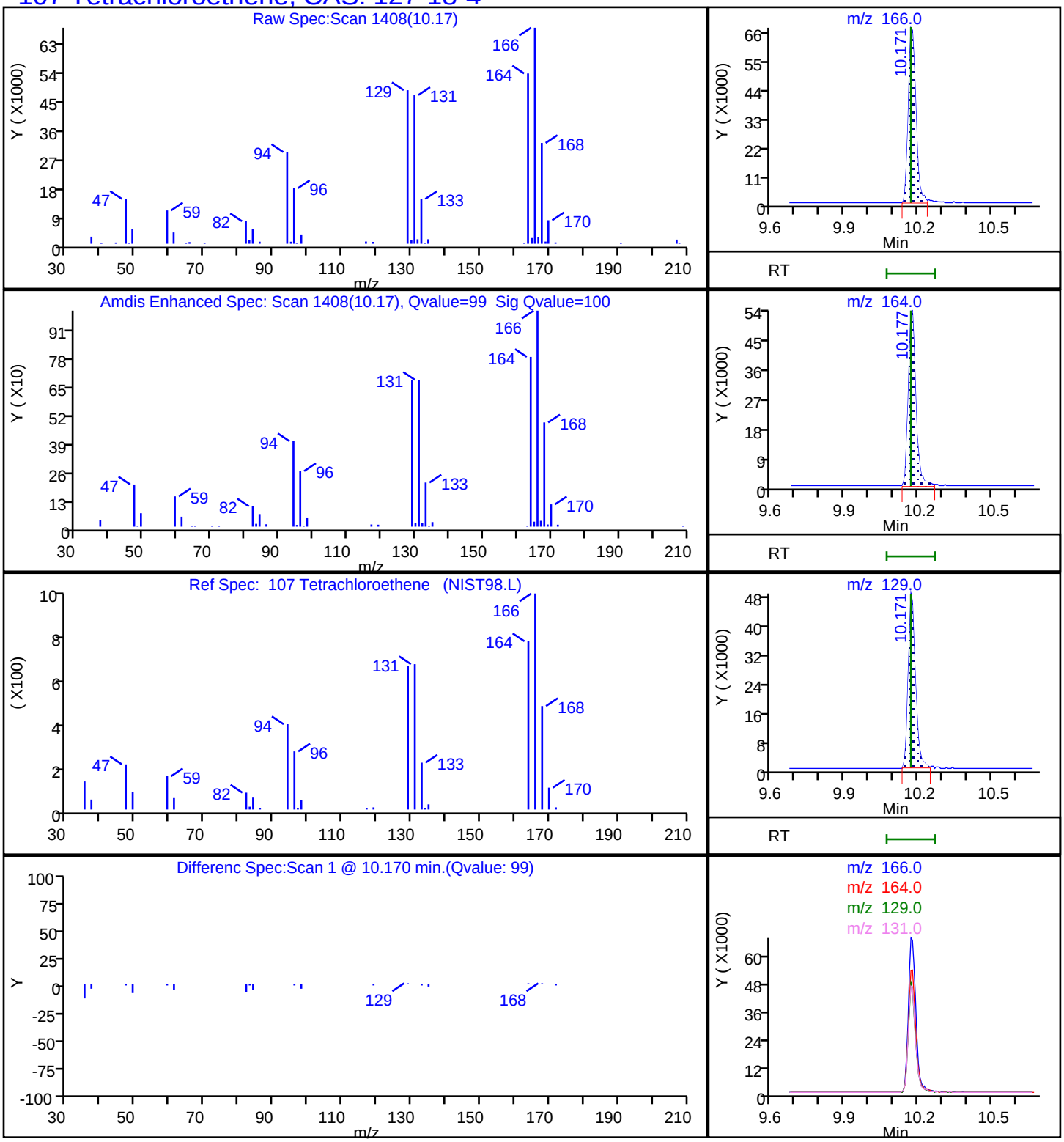
50 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X16.D				
Injection Date:	27-Sep-2024 23:49:30	Instrument ID:	19094		
Lims ID:	410-189680-A-9	Lab Sample ID:	410-189680-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

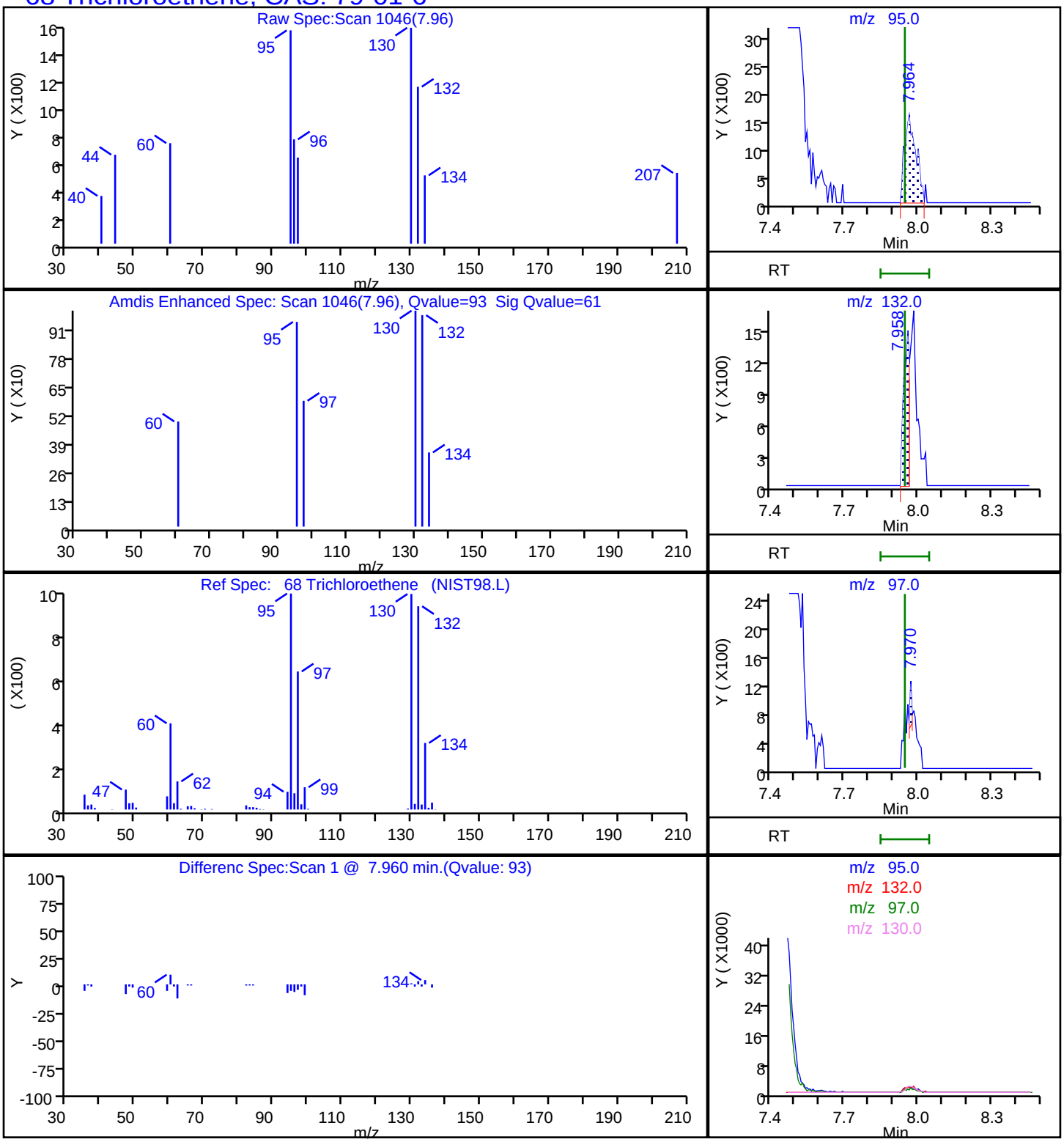
107 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X16.D				
Injection Date:	27-Sep-2024 23:49:30	Instrument ID:	19094		
Lims ID:	410-189680-A-9	Lab Sample ID:	410-189680-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



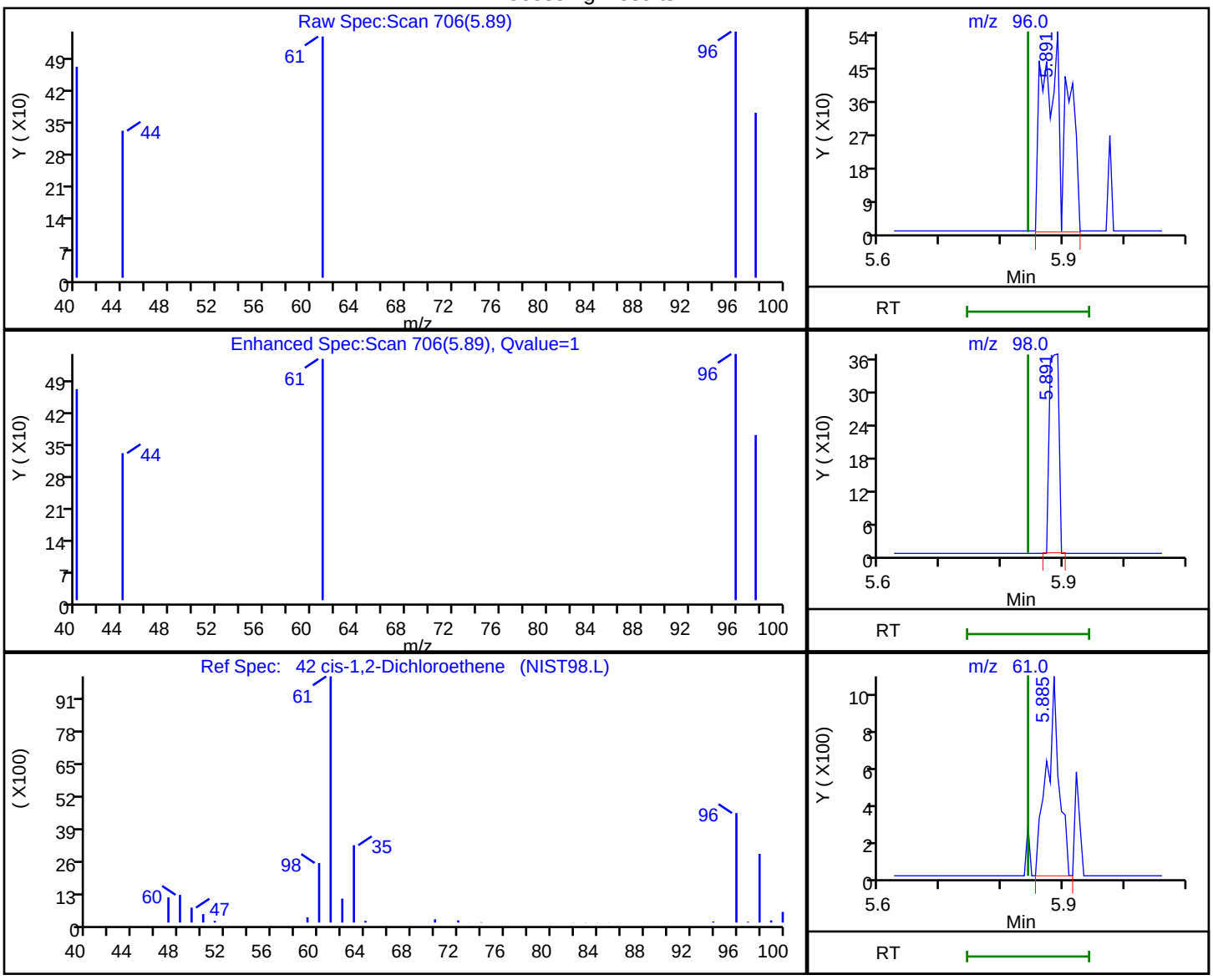
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X16.D				
Injection Date:	27-Sep-2024 23:49:30	Instrument ID:	19094		
Lims ID:	410-189680-A-9	Lab Sample ID:	410-189680-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

Processing Results



RT	Mass	Response	Amount
5.89	96.00	1459	0.040342
5.89	98.00	397	
5.88	61.00	1492	
5.84	63.00	0	

Reviewer: FQ4L, 30-Sep-2024 08:55:29 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

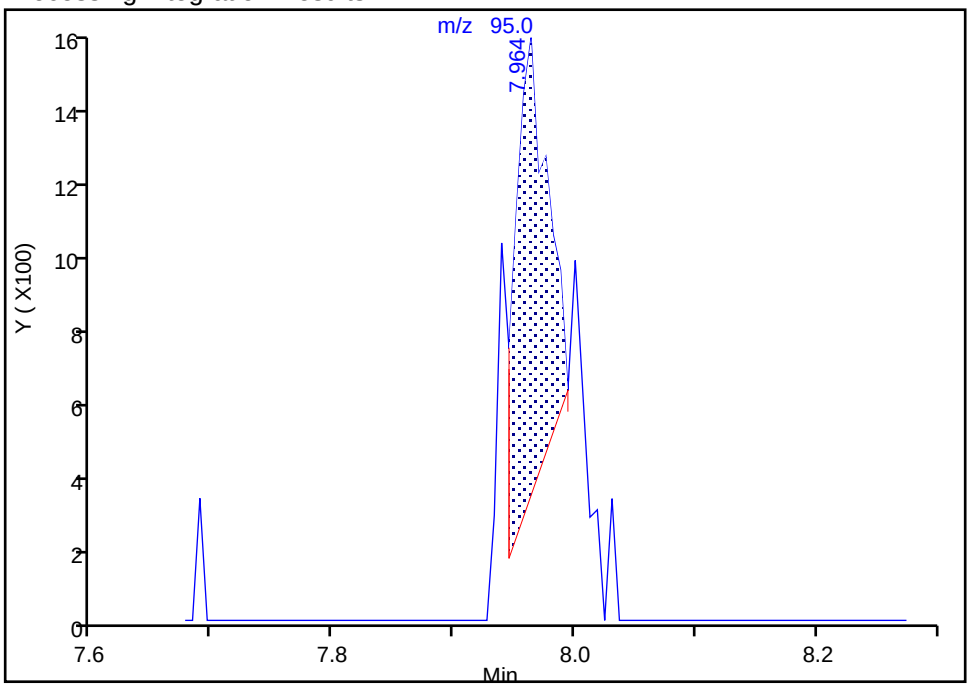
Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X16.D				
Injection Date:	27-Sep-2024 23:49:30	Instrument ID:	19094		
Lims ID:	410-189680-A-9	Lab Sample ID:	410-189680-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

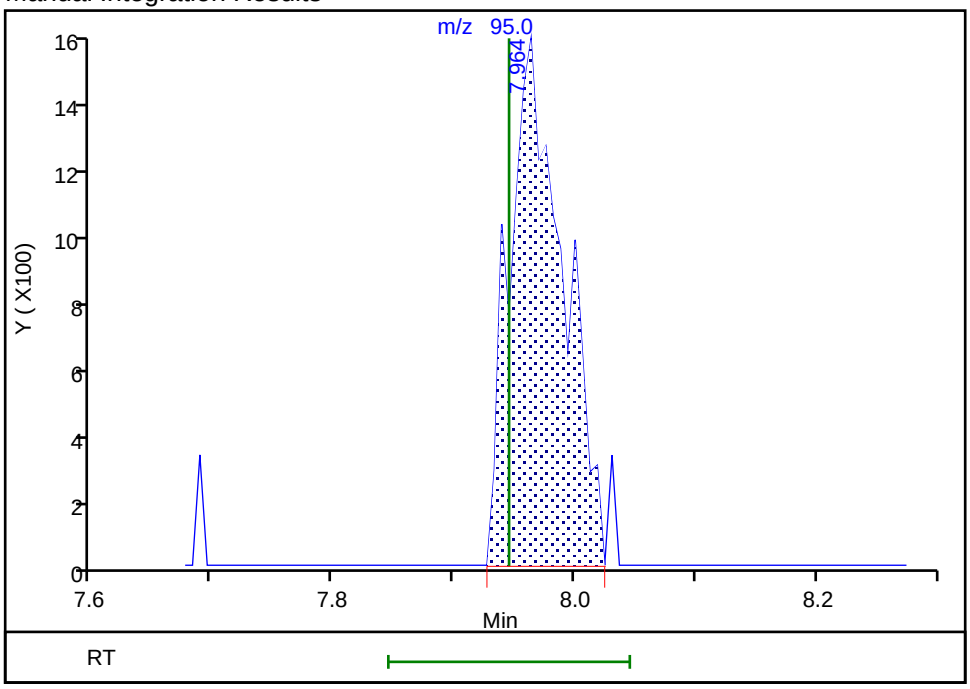
Processing Integration Results

RT: 7.96
Area: 2317
Amount: 0.063470
Amount Units: ug/l



Manual Integration Results

RT: 7.96
Area: 4881
Amount: 0.133706
Amount Units: ug/l



Reviewer: FQ4L, 30-Sep-2024 08:55:54 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.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0
Lab Sample ID: 410-189680-10

Matrix: Water
Lab File ID: HS27X17.D

Analysis Method: 8260D
Date Collected: 09/23/2024 12:47

Sample wt/vol: 25(mL)
Date Analyzed: 09/28/2024 00:10

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.15	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.094	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	0.20	J	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0
Lab Sample ID: 410-189680-10

Matrix: Water
Lab File ID: HS27X17.D

Analysis Method: 8260D
Date Collected: 09/23/2024 12:47

Sample wt/vol: 25(mL)
Date Analyzed: 09/28/2024 00:10

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X17.D
Lims ID: 410-189680-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 28-Sep-2024 00:10:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-018
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Sep-2024 08:58:14 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:58:14

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	5 Chloromethane	50		2.056				ND	7
	6 Vinyl chloride	62		2.166				ND	
	9 Bromomethane	94		2.477				ND	
	10 Chloroethane	64		2.538				ND	
	17 1,1-Dichloroethene	96		3.337				ND	
	19 Acetone	43		3.367				ND	U
	23 Carbon disulfide	76		3.629				ND	7
	27 Methylene Chloride	84		3.952				ND	
*	28 t-Butyl alcohol-d10 (IS)	65	3.964	3.983	-0.019	22	80676	50.0	
	32 Methyl tert-butyl ether	73		4.330				ND	
	33 trans-1,2-Dichloroethene	96		4.349				ND	
	36 1,1-Dichloroethane	63		5.007				ND	
	41 2-Butanone (MEK)	43		5.812				ND	
	42 cis-1,2-Dichloroethene	96	5.867	5.842	0.025	17	3345	0.0941	
	48 Chlorobromomethane	128		6.184				ND	
	50 Chloroform	83	6.348	6.336	0.012	89	8774	0.1481	
$	52 Dibromofluoromethane (Surr)	113	6.562	6.549	0.013	94	365541	10.1	
	53 1,1,1-Trichloroethane	97		6.562				ND	
	56 Carbon tetrachloride	117		6.781				ND	
$	58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.007	0.012	47	71442	9.65	
	59 Benzene	78		7.043				ND	7
	60 1,2-Dichloroethane	62		7.116				ND	
*	64 Fluorobenzene (IS)	96	7.458	7.458	0.000	99	1479578	10.0	
	68 Trichloroethene	95	7.958	7.945	0.013	89	5210	0.1452	M
	70 1,2-Dichloropropane	63		8.281				ND	
	76 Dichlorobromomethane	83		8.634				ND	7
	80 cis-1,3-Dichloropropene	75		9.195				ND	
	82 4-Methyl-2-pentanone (MIBK)	43		9.372				ND	
$	83 Toluene-d8 (Surr)	98	9.518	9.518	0.000	93	1507744	10.2	
	84 Toluene	92	9.604	9.598	0.006	1	3178	0.0354	
	85 trans-1,3-Dichloropropene	75		9.872				ND	
	106 1,1,2-Trichloroethane	97		10.079				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.189	10.171	0.018	95	8135	0.1952	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.579				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1134401	10.0	
115 Chlorobenzene	112		11.048				ND	
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	
121 Styrene	104		11.603				ND	7
122 Bromoform	173		11.762				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	94	536460	9.74	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	94	632778	10.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected

Reagents:

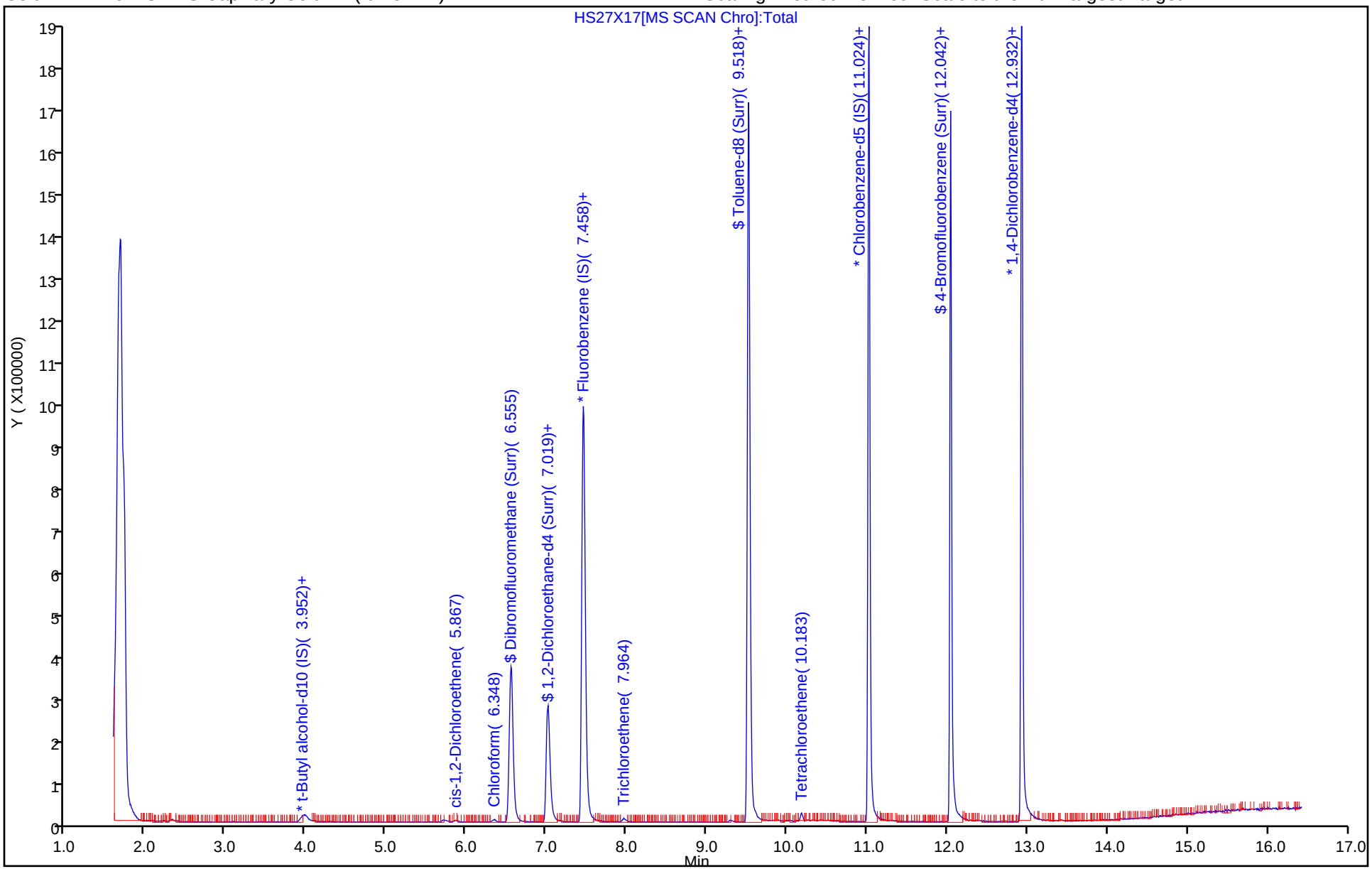
MSV_LLcentISS_00013 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 30-Sep-2024 08:58:15 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X17.D				
Injection Date:	28-Sep-2024 00:10:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	410-189680-A-10	Lab Sample ID:	410-189680-10	Worklist Smp#:	18
Client ID:	HD-COD-SW-27-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X17.D				
Lims ID:	410-189680-A-10				
Client ID:	HD-COD-SW-27-0/1-0				
Sample Type:	Client				
Inject. Date:	28-Sep-2024 00:10:30	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-018				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Sep-2024 08:58:14	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				

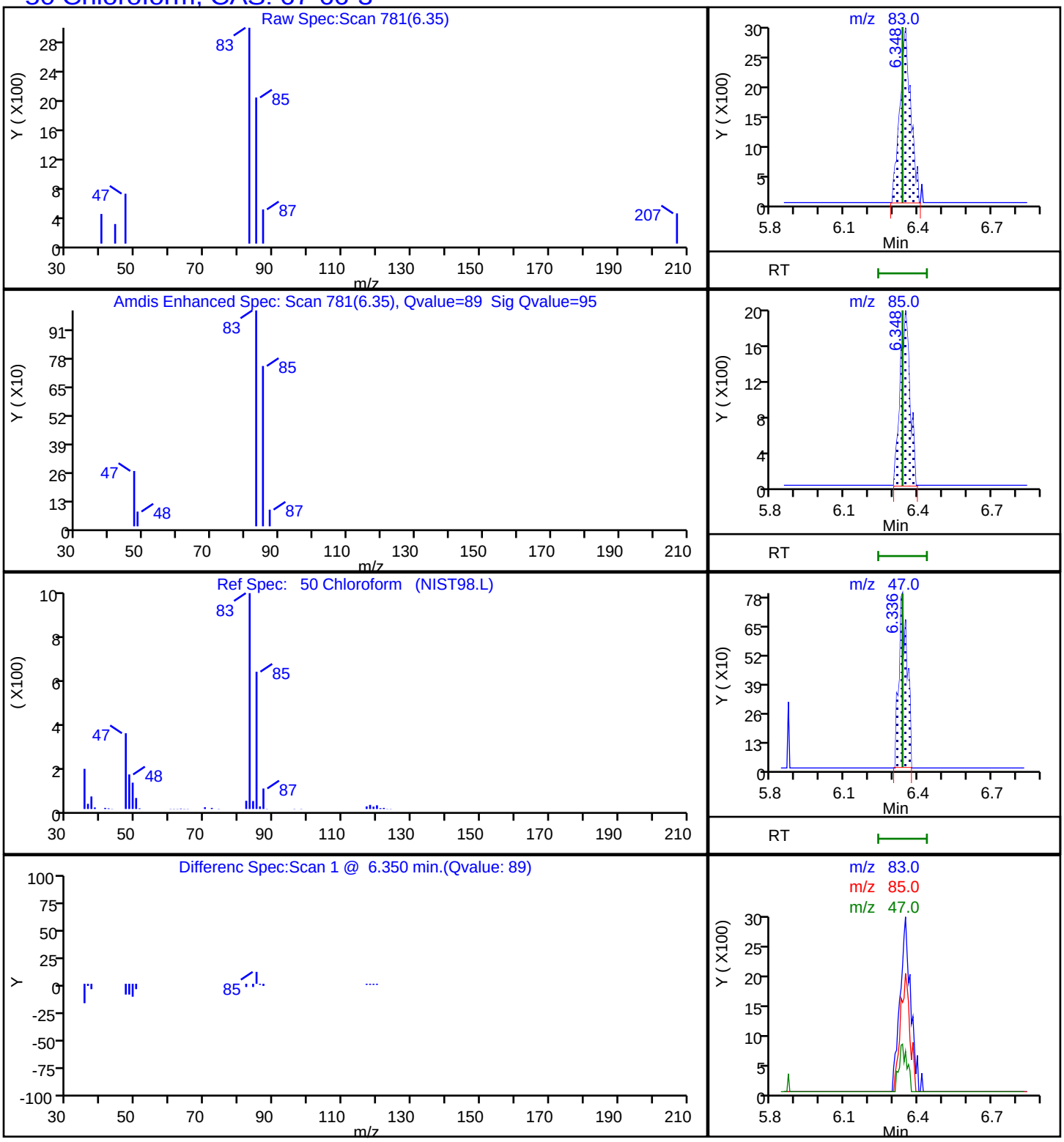
First Level Reviewer: FQ4L Date: 30-Sep-2024 08:58:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.1	100.89
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.65	96.53
$ 83 Toluene-d8 (Surr)	10.0	10.2	102.20
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.74	97.38

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X17.D				
Injection Date:	28-Sep-2024 00:10:30	Instrument ID:	19094		
Lims ID:	410-189680-A-10	Lab Sample ID:	410-189680-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

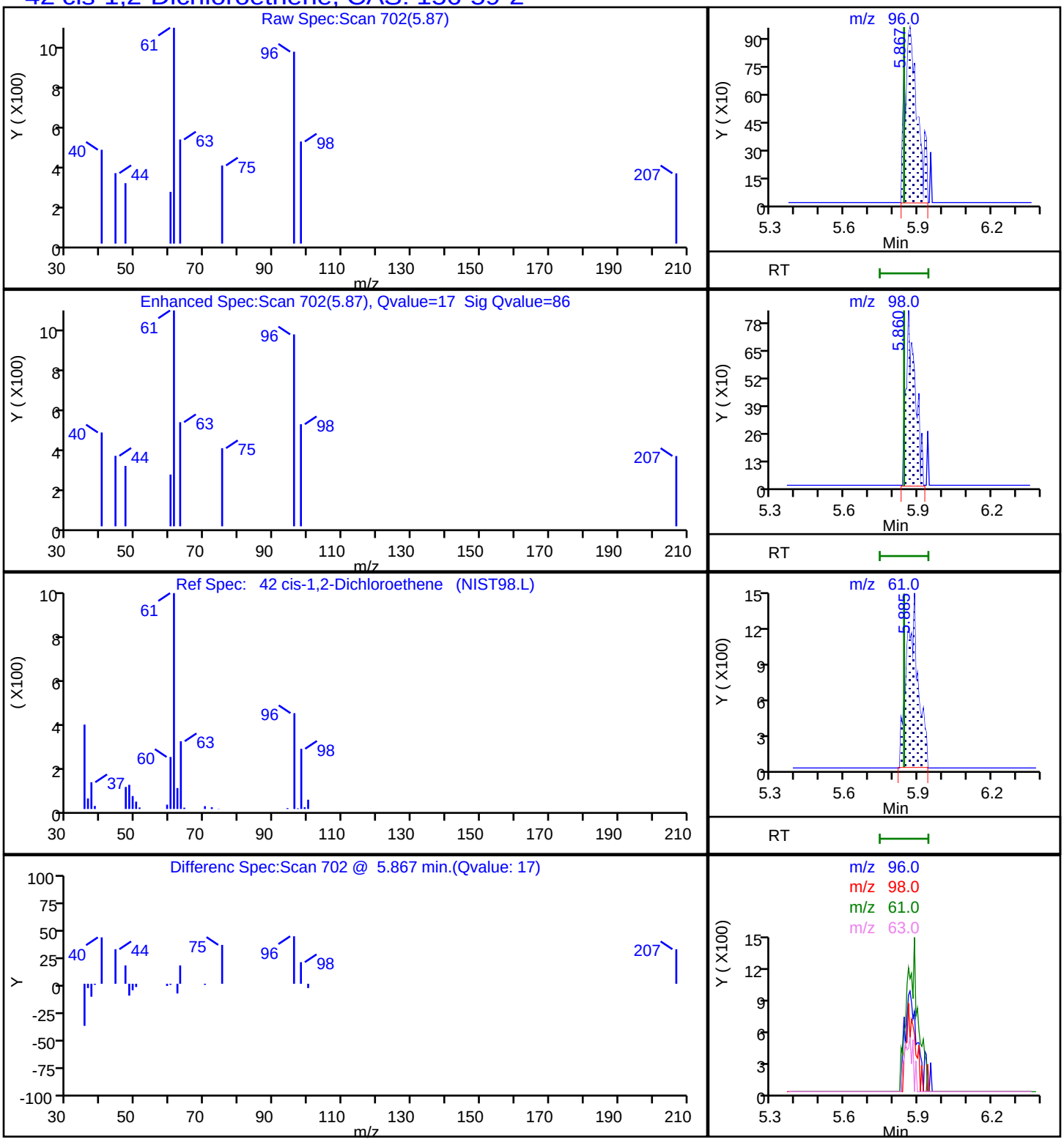
50 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X17.D				
Injection Date:	28-Sep-2024 00:10:30	Instrument ID:	19094		
Lims ID:	410-189680-A-10	Lab Sample ID:	410-189680-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

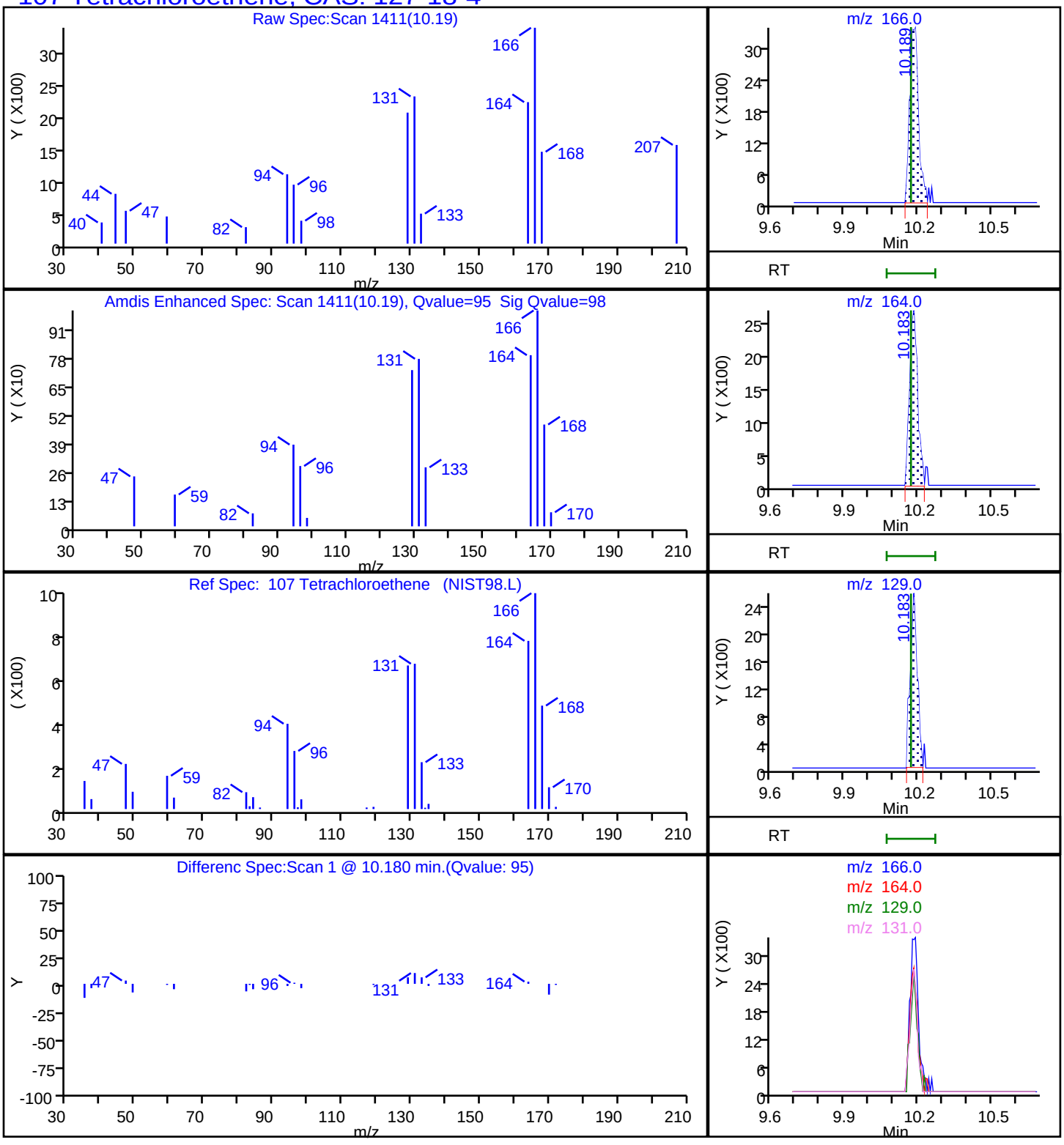
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X17.D				
Injection Date:	28-Sep-2024 00:10:30	Instrument ID:	19094		
Lims ID:	410-189680-A-10	Lab Sample ID:	410-189680-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

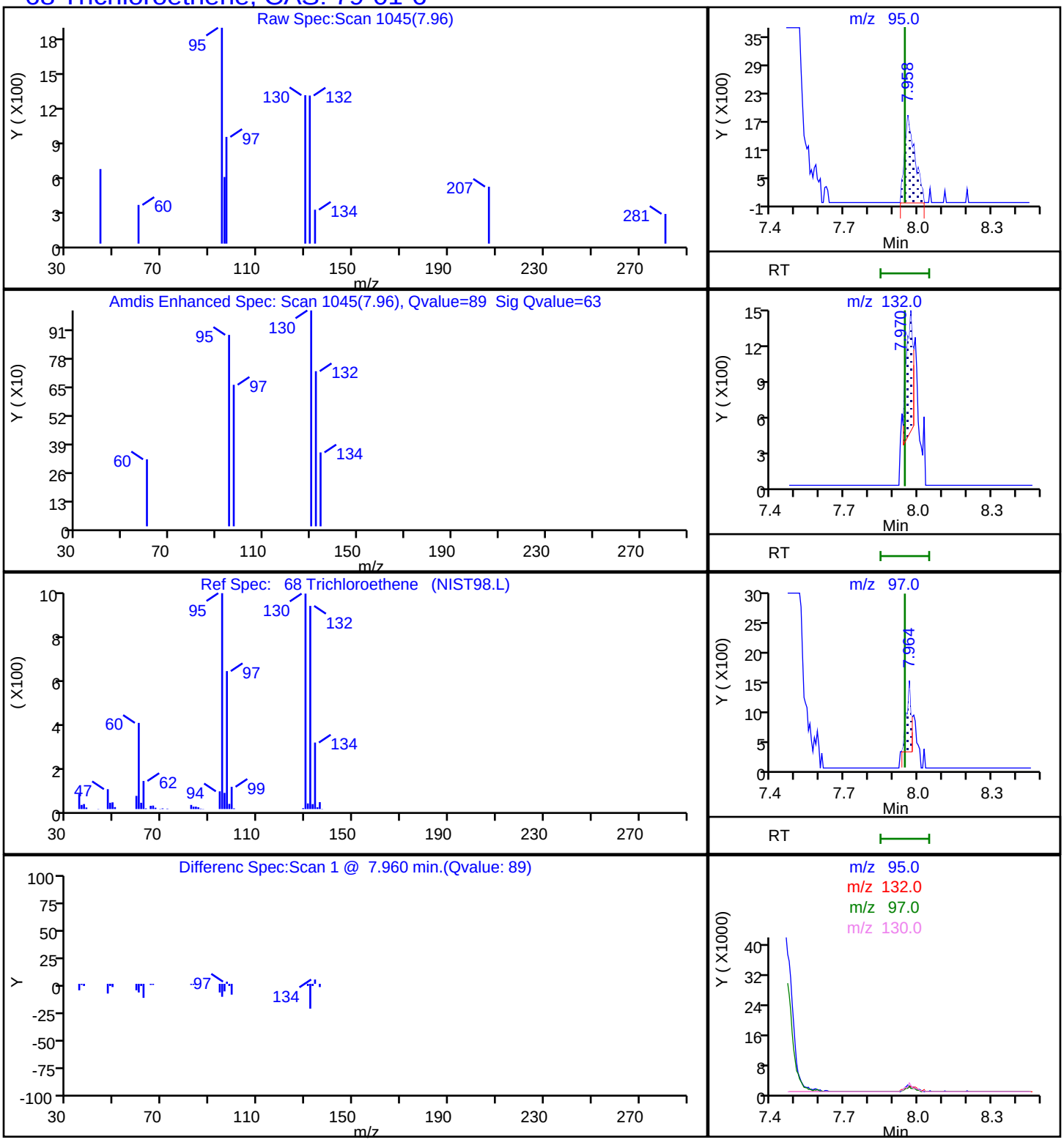
107 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X17.D				
Injection Date:	28-Sep-2024 00:10:30	Instrument ID:	19094		
Lims ID:	410-189680-A-10	Lab Sample ID:	410-189680-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



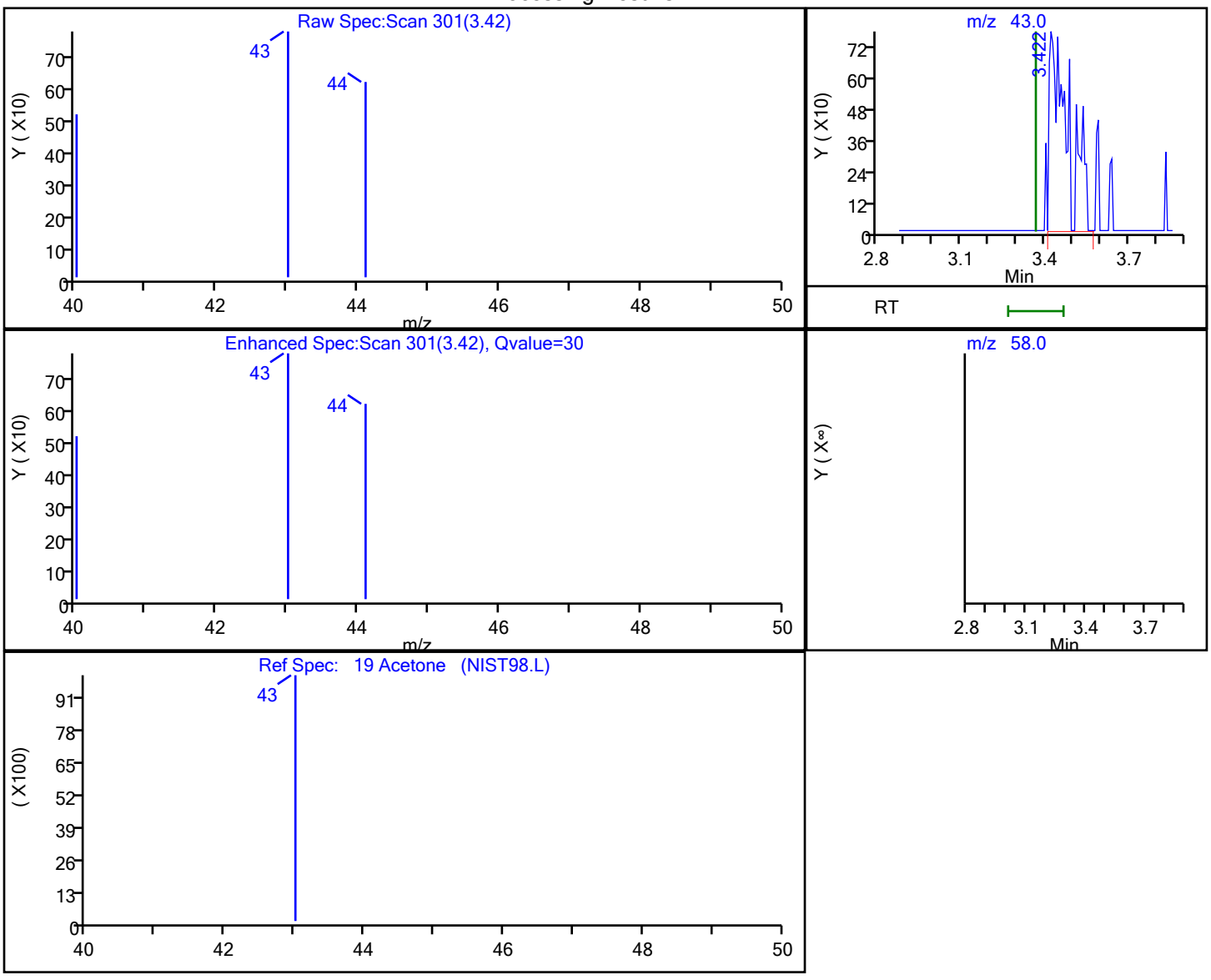
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X17.D				
Injection Date:	28-Sep-2024 00:10:30	Instrument ID:	19094		
Lims ID:	410-189680-A-10	Lab Sample ID:	410-189680-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.42	43.00	3532	0.822534
3.37	58.00	0	

Reviewer: FQ4L, 30-Sep-2024 08:56:45 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

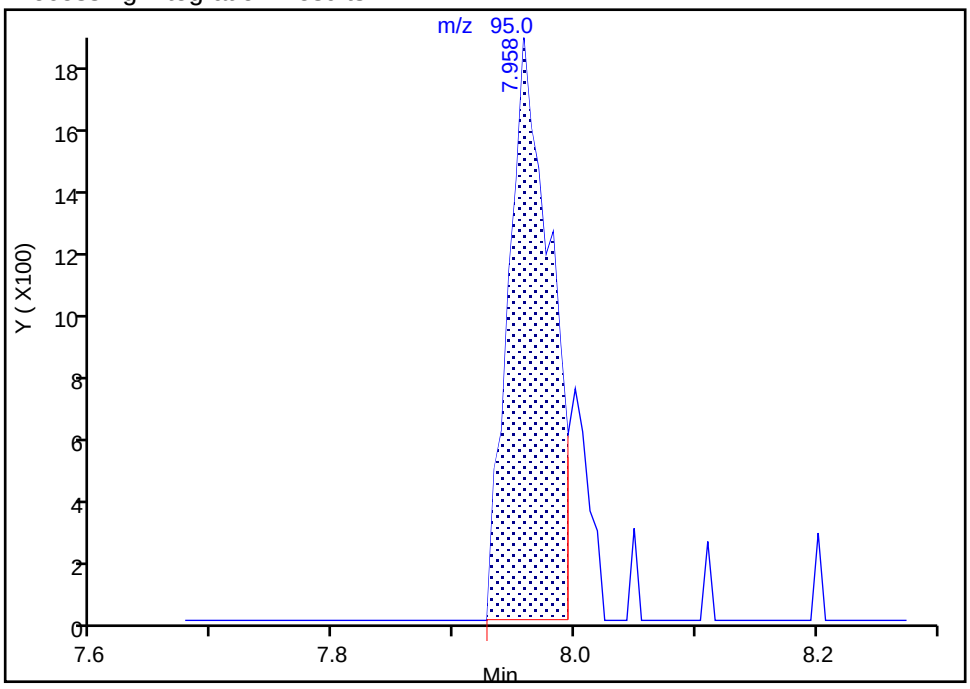
Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X17.D				
Injection Date:	28-Sep-2024 00:10:30	Instrument ID:	19094		
Lims ID:	410-189680-A-10	Lab Sample ID:	410-189680-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

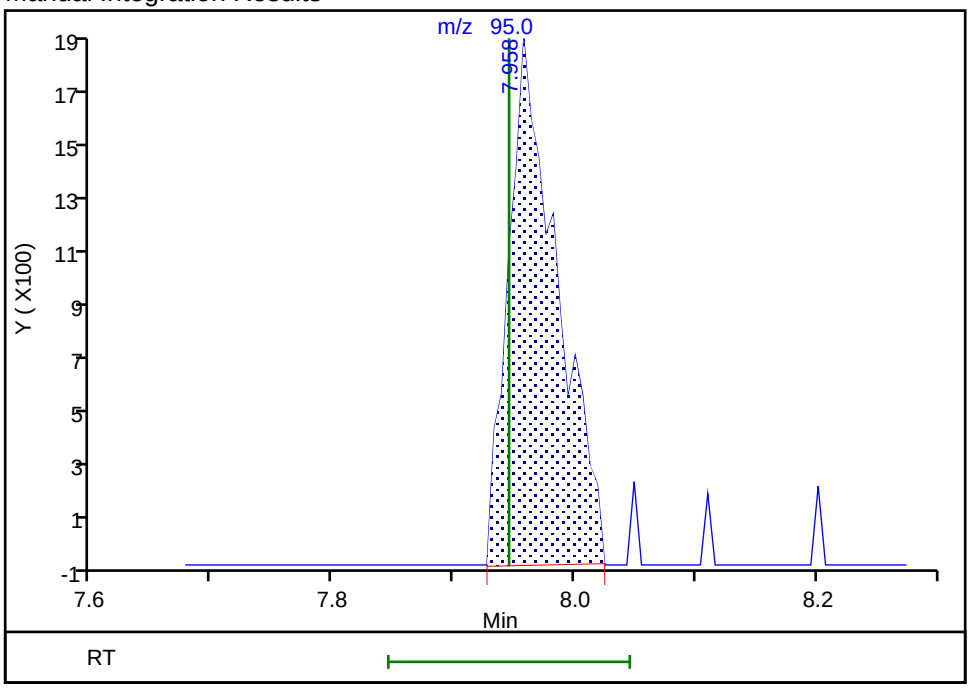
Processing Integration Results

RT: 7.96
Area: 4493
Amount: 0.125183
Amount Units: ug/l



Manual Integration Results

RT: 7.96
Area: 5210
Amount: 0.145160
Amount Units: ug/l



Reviewer: FQ4L, 30-Sep-2024 08:57:15 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.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0
Lab Sample ID: 410-189680-11

Matrix: Water
Lab File ID: HS27X18.D

Analysis Method: 8260D
Date Collected: 09/23/2024 14:30

Sample wt/vol: 25(mL)
Date Analyzed: 09/28/2024 00:31

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	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 Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0
Lab Sample ID: 410-189680-11

Matrix: Water
Lab File ID: HS27X18.D

Analysis Method: 8260D
Date Collected: 09/23/2024 14:30

Sample wt/vol: 25(mL)
Date Analyzed: 09/28/2024 00:31

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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	0.084	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)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X18.D
Lims ID: 410-189680-A-11
Client ID: HD-COD-SW-28-0/1-0
Sample Type: Client
Inject. Date: 28-Sep-2024 00:31:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-019
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Sep-2024 08:59:43 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:59:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.056				ND	7
6 Vinyl chloride	62		2.166				ND	
9 Bromomethane	94		2.477				ND	
10 Chloroethane	64		2.538				ND	
17 1,1-Dichloroethene	96		3.337				ND	
19 Acetone	43		3.367				ND	U
23 Carbon disulfide	76		3.629				ND	7
27 Methylene Chloride	84		3.952				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.989	3.983	0.006	22	80110	50.0	
32 Methyl tert-butyl ether	73		4.330				ND	
33 trans-1,2-Dichloroethene	96		4.349				ND	
36 1,1-Dichloroethane	63		5.007				ND	
41 2-Butanone (MEK)	43		5.812				ND	
42 cis-1,2-Dichloroethene	96	5.872	5.842	0.030	15	2400	0.0693	
48 Chlorobromomethane	128		6.184				ND	
50 Chloroform	83	6.360	6.336	0.024	91	6952	0.1205	
$ 52 Dibromofluoromethane (Surr)	113	6.561	6.549	0.012	94	364868	10.3	
53 1,1,1-Trichloroethane	97		6.562				ND	
56 Carbon tetrachloride	117		6.781				ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.007	0.011	48	72871	10.1	
59 Benzene	78		7.043				ND	7
60 1,2-Dichloroethane	62		7.116				ND	
* 64 Fluorobenzene (IS)	96	7.457	7.458	-0.001	99	1441671	10.0	
68 Trichloroethene	95	7.957	7.945	0.012	84	2936	0.0840	M
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	
80 cis-1,3-Dichloropropene	75		9.195				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.372				ND	
$ 83 Toluene-d8 (Surr)	98	9.518	9.518	0.000	93	1468967	10.0	
84 Toluene	92	9.609	9.598	0.011	98	4190	0.0469	
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.183	10.171	0.012	94	6866	0.1654	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.579				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1130402	10.0	
115 Chlorobenzene	112		11.048				ND	
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	7
121 Styrene	104		11.603				ND	7
122 Bromoform	173		11.762				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	94	509495	9.28	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	94	627976	10.0	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

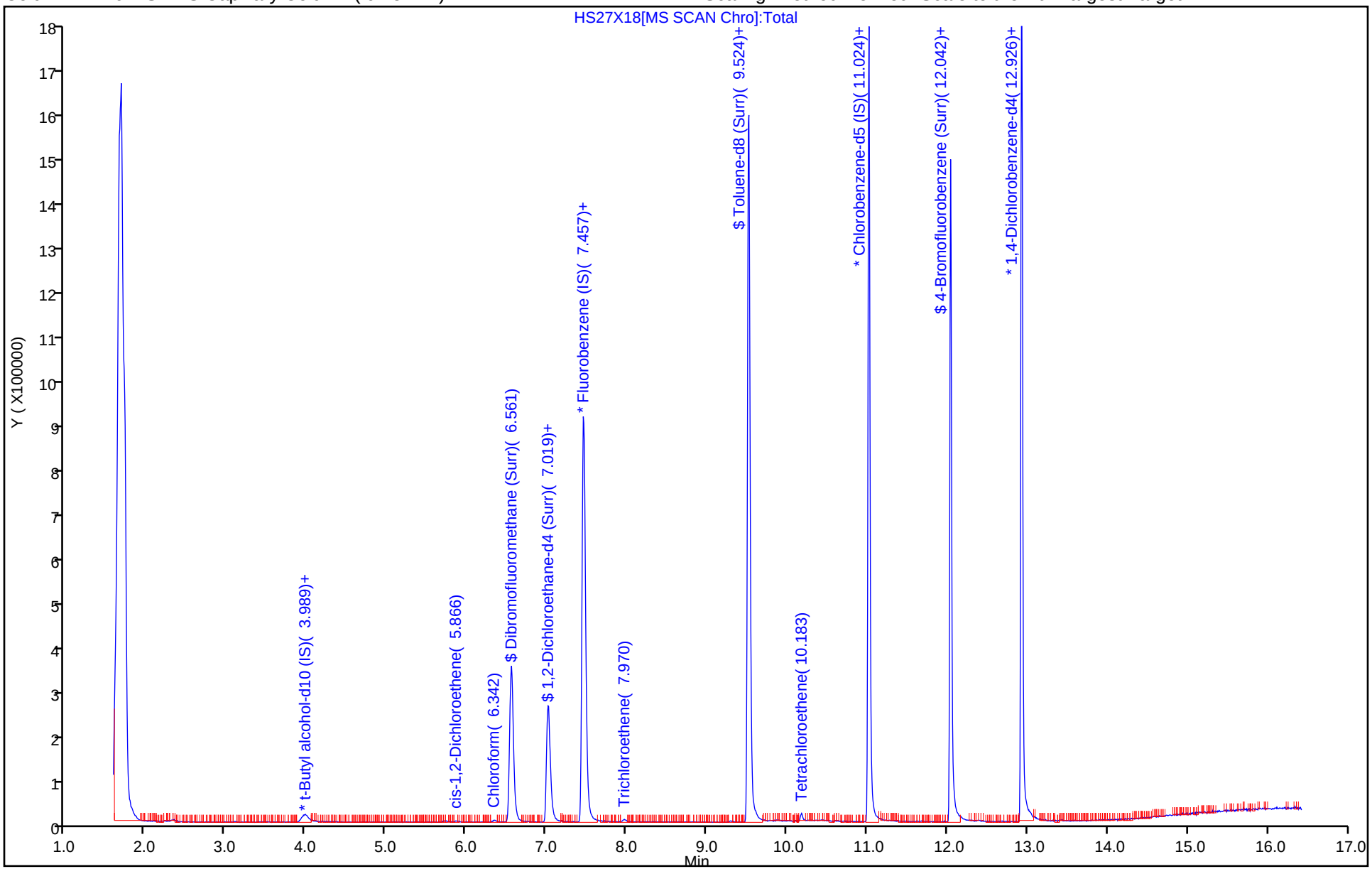
MSV_LLcentISS_00013 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 30-Sep-2024 08:59:43 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X18.D				
Injection Date:	28-Sep-2024 00:31:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	410-189680-A-11	Lab Sample ID:	410-189680-11	Worklist Smp#:	19
Client ID:	HD-COD-SW-28-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X18.D				
Lims ID:	410-189680-A-11				
Client ID:	HD-COD-SW-28-0/1-0				
Sample Type:	Client				
Inject. Date:	28-Sep-2024 00:31:30	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-019				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Sep-2024 08:59:43	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				

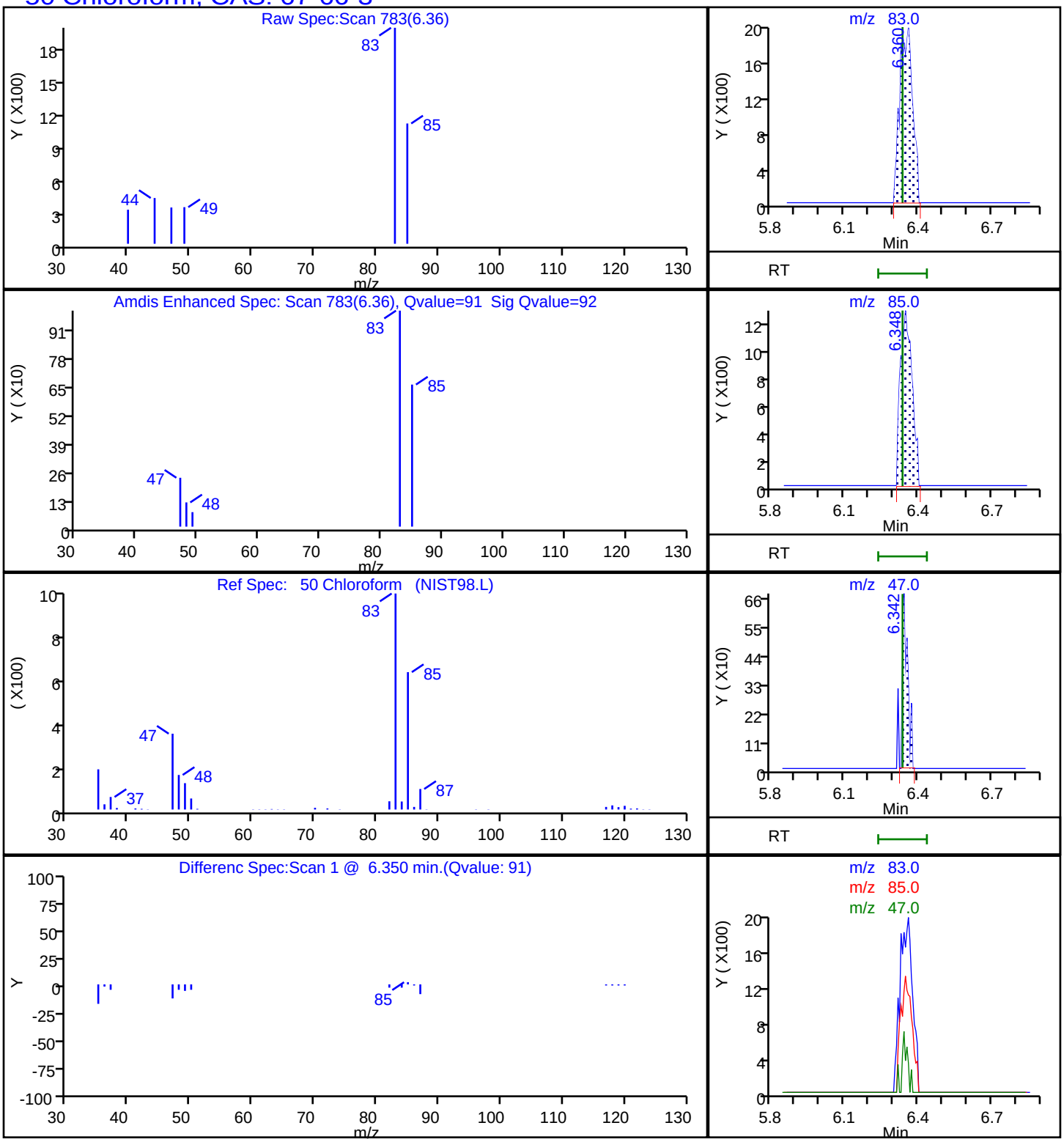
First Level Reviewer: FQ4L Date: 30-Sep-2024 08:59:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.35
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.05
$ 83 Toluene-d8 (Surr)	10.0	10.0	99.92
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.28	92.81

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X18.D				
Injection Date:	28-Sep-2024 00:31:30	Instrument ID:	19094		
Lims ID:	410-189680-A-11	Lab Sample ID:	410-189680-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

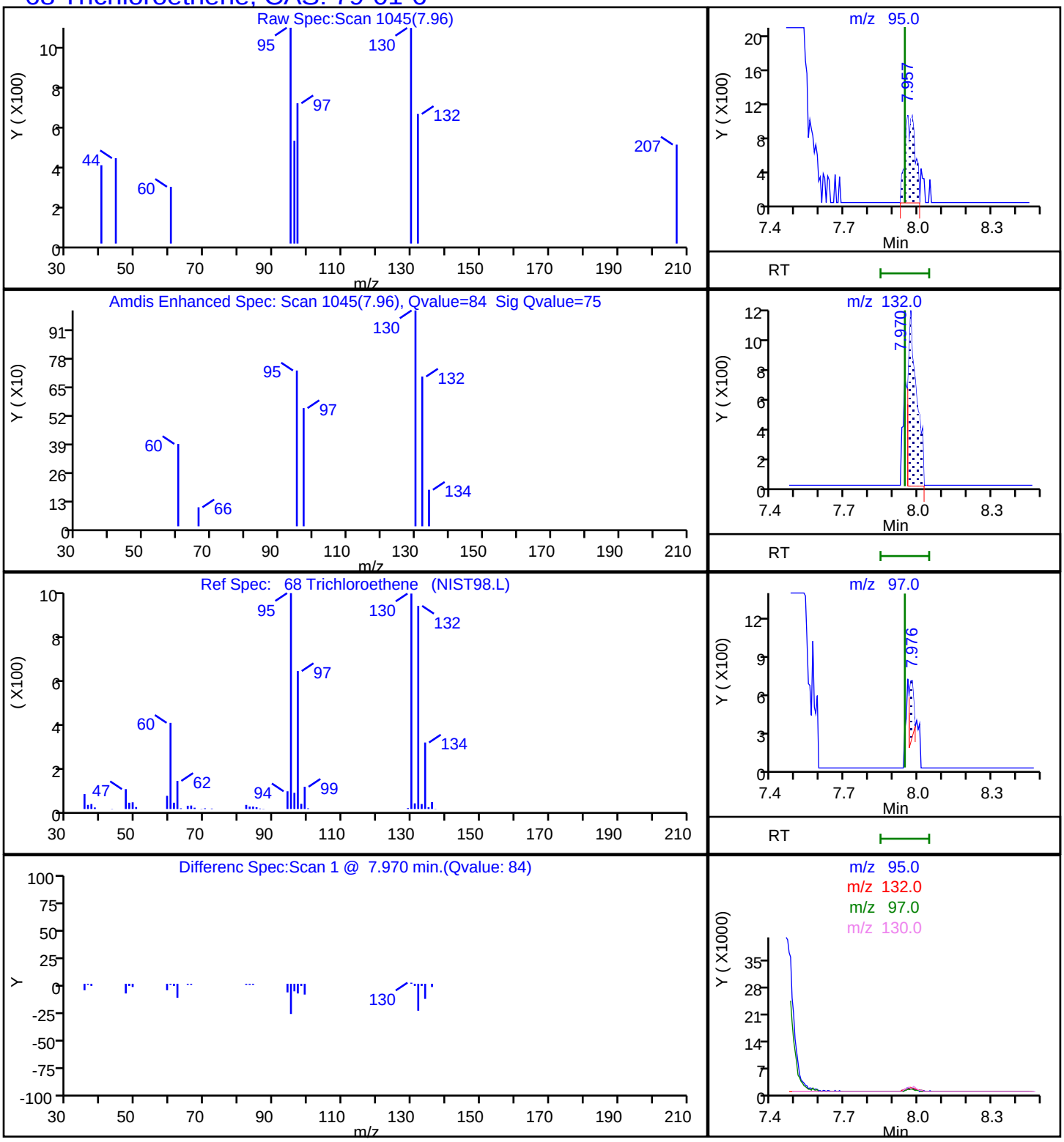
50 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X18.D				
Injection Date:	28-Sep-2024 00:31:30	Instrument ID:	19094		
Lims ID:	410-189680-A-11	Lab Sample ID:	410-189680-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



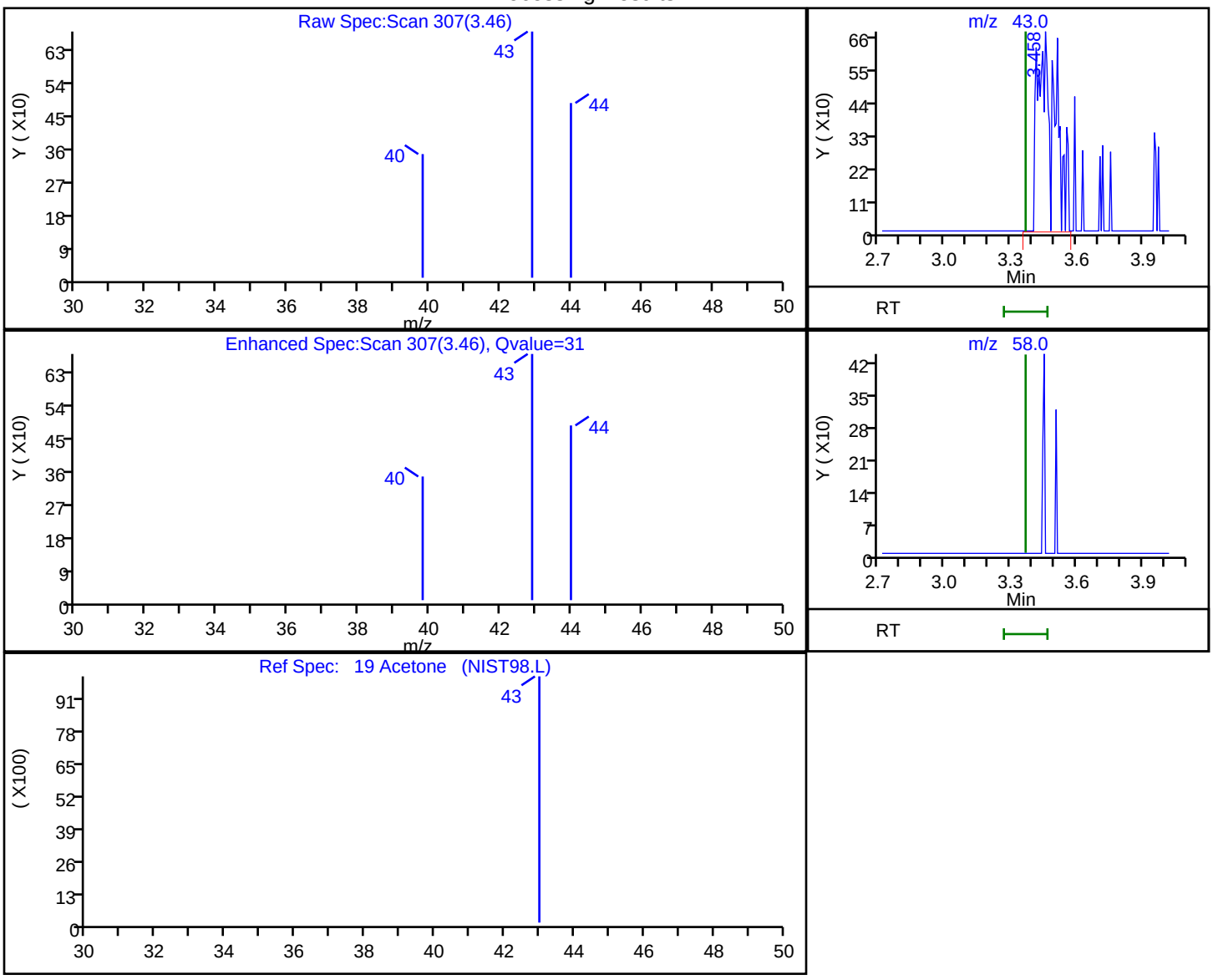
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X18.D				
Injection Date:	28-Sep-2024 00:31:30	Instrument ID:	19094		
Lims ID:	410-189680-A-11	Lab Sample ID:	410-189680-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.46	43.00	3785	0.887680
3.37	58.00	0	

Reviewer: FQ4L, 30-Sep-2024 08:58:43 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

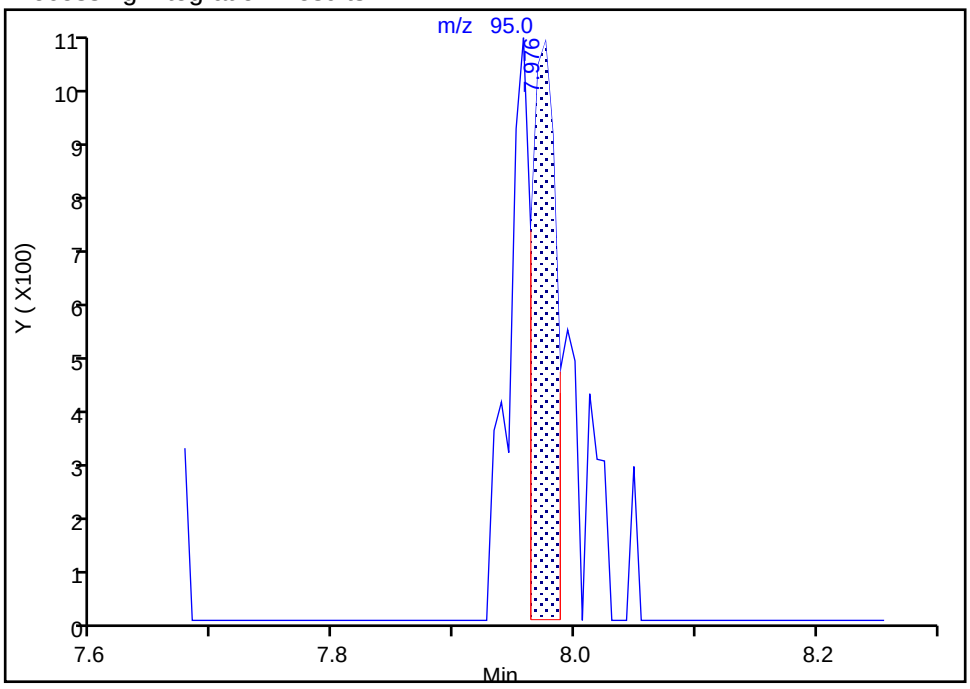
Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X18.D				
Injection Date:	28-Sep-2024 00:31:30	Instrument ID:	19094		
Lims ID:	410-189680-A-11	Lab Sample ID:	410-189680-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

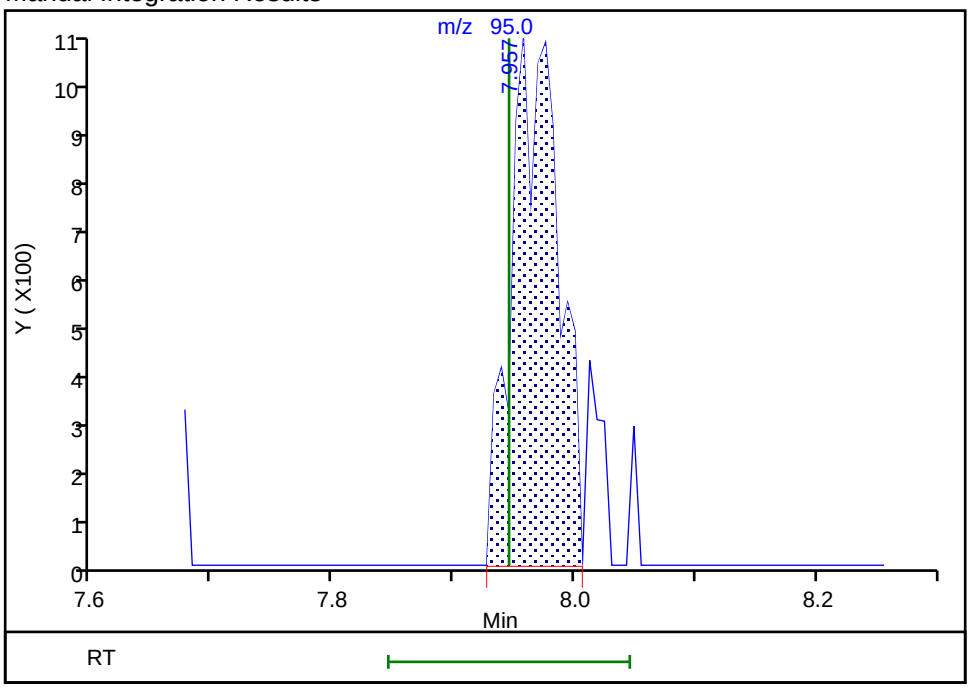
Processing Integration Results

RT: 7.98
Area: 1487
Amount: 0.042520
Amount Units: ug/l



Manual Integration Results

RT: 7.96
Area: 2936
Amount: 0.083953
Amount Units: ug/l



Reviewer: FQ4L, 30-Sep-2024 08:59:23 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.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0
Lab Sample ID: 410-189680-12

Matrix: Water
Lab File ID: HS27X19.D

Analysis Method: 8260D
Date Collected: 09/23/2024 10:25

Sample wt/vol: 25(mL)
Date Analyzed: 09/28/2024 00:52

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	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	0.36	J	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0
Lab Sample ID: 410-189680-12

Matrix: Water
Lab File ID: HS27X19.D

Analysis Method: 8260D
Date Collected: 09/23/2024 10:25

Sample wt/vol: 25(mL)
Date Analyzed: 09/28/2024 00:52

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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	0.13	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)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X19.D
Lims ID: 410-189680-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 28-Sep-2024 00:52:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-020
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Sep-2024 08:59:43 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 09:01:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.056				ND	7
6 Vinyl chloride	62		2.166				ND	
9 Bromomethane	94		2.477				ND	
10 Chloroethane	64		2.538				ND	
17 1,1-Dichloroethene	96		3.337				ND	
19 Acetone	43		3.367				ND	
23 Carbon disulfide	76		3.629				ND	7
27 Methylene Chloride	84		3.952				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.977	3.983	-0.006	25	75311	50.0	
32 Methyl tert-butyl ether	73		4.330				ND	
33 trans-1,2-Dichloroethene	96		4.349				ND	
36 1,1-Dichloroethane	63		5.007				ND	
41 2-Butanone (MEK)	43		5.812				ND	
42 cis-1,2-Dichloroethene	96	5.879	5.842	0.037	71	3027	0.0856	
48 Chlorobromomethane	128		6.184				ND	
50 Chloroform	83	6.354	6.336	0.018	82	4274	0.0726	
$ 52 Dibromofluoromethane (Surr)	113	6.568	6.549	0.019	94	368519	10.2	
53 1,1,1-Trichloroethane	97		6.562				ND	
56 Carbon tetrachloride	117		6.781				ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.007	0.012	48	70772	9.62	
59 Benzene	78		7.043				ND	7
60 1,2-Dichloroethane	62		7.116				ND	
* 64 Fluorobenzene (IS)	96	7.464	7.458	0.006	99	1470947	10.0	
68 Trichloroethene	95	7.964	7.945	0.019	91	4634	0.1299	
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	
80 cis-1,3-Dichloropropene	75		9.195				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.372				ND	
$ 83 Toluene-d8 (Surr)	98	9.524	9.518	0.006	93	1488351	10.1	
84 Toluene	92		9.598				ND	7
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.177	10.171	0.006	95	14998	0.3591	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.579				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1136899	10.0	
115 Chlorobenzene	112		11.048				ND	
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	
120 o-Xylene	106		11.591				ND	
121 Styrene	104		11.603				ND	
122 Bromoform	173		11.762				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	94	525703	9.52	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	94	630396	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

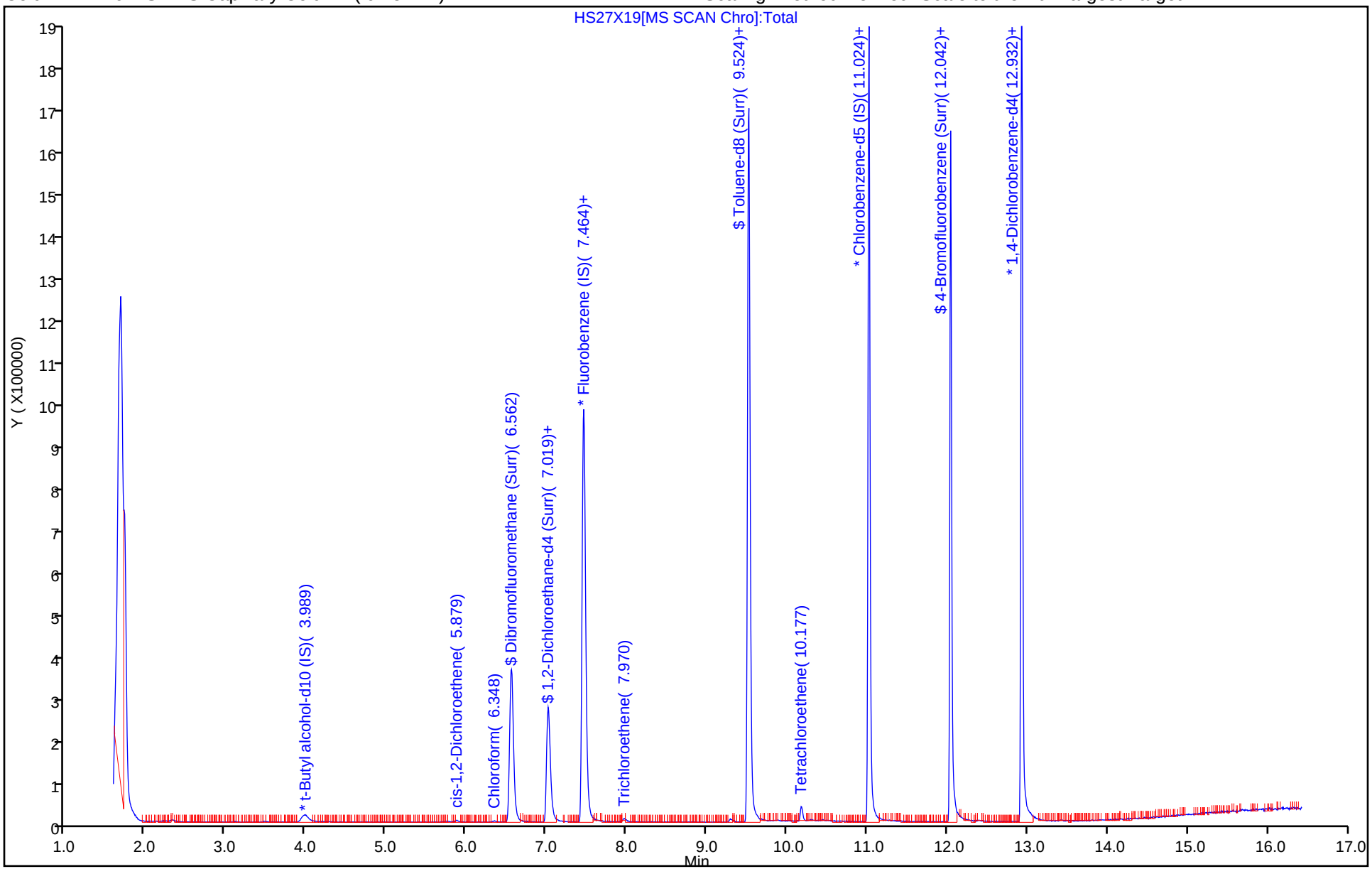
MSV_LLcentISS_00013 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 30-Sep-2024 09:01:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X19.D				
Injection Date:	28-Sep-2024 00:52:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	410-189680-A-12	Lab Sample ID:	410-189680-12	Worklist Smp#:	20
Client ID:	HD-COD-SW-29-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X19.D				
Lims ID:	410-189680-A-12				
Client ID:	HD-COD-SW-29-0/1-0				
Sample Type:	Client				
Inject. Date:	28-Sep-2024 00:52:30	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-020				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Sep-2024 08:59:43	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				

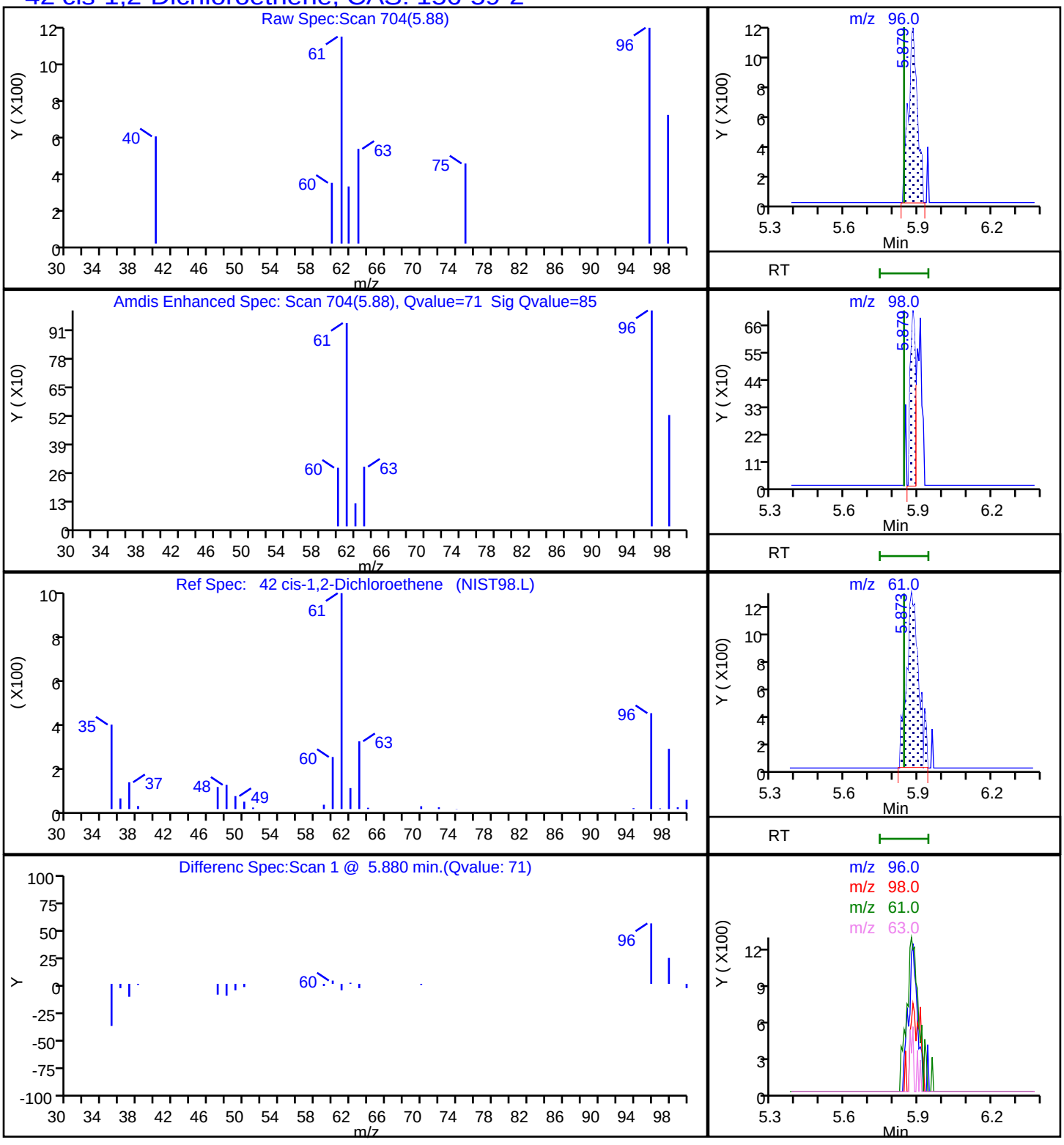
First Level Reviewer: FQ4L Date: 30-Sep-2024 09:01:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.2	102.30
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.62	96.18
$ 83 Toluene-d8 (Surr)	10.0	10.1	100.66
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.52	95.21

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X19.D				
Injection Date:	28-Sep-2024 00:52:30	Instrument ID:	19094		
Lims ID:	410-189680-A-12	Lab Sample ID:	410-189680-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

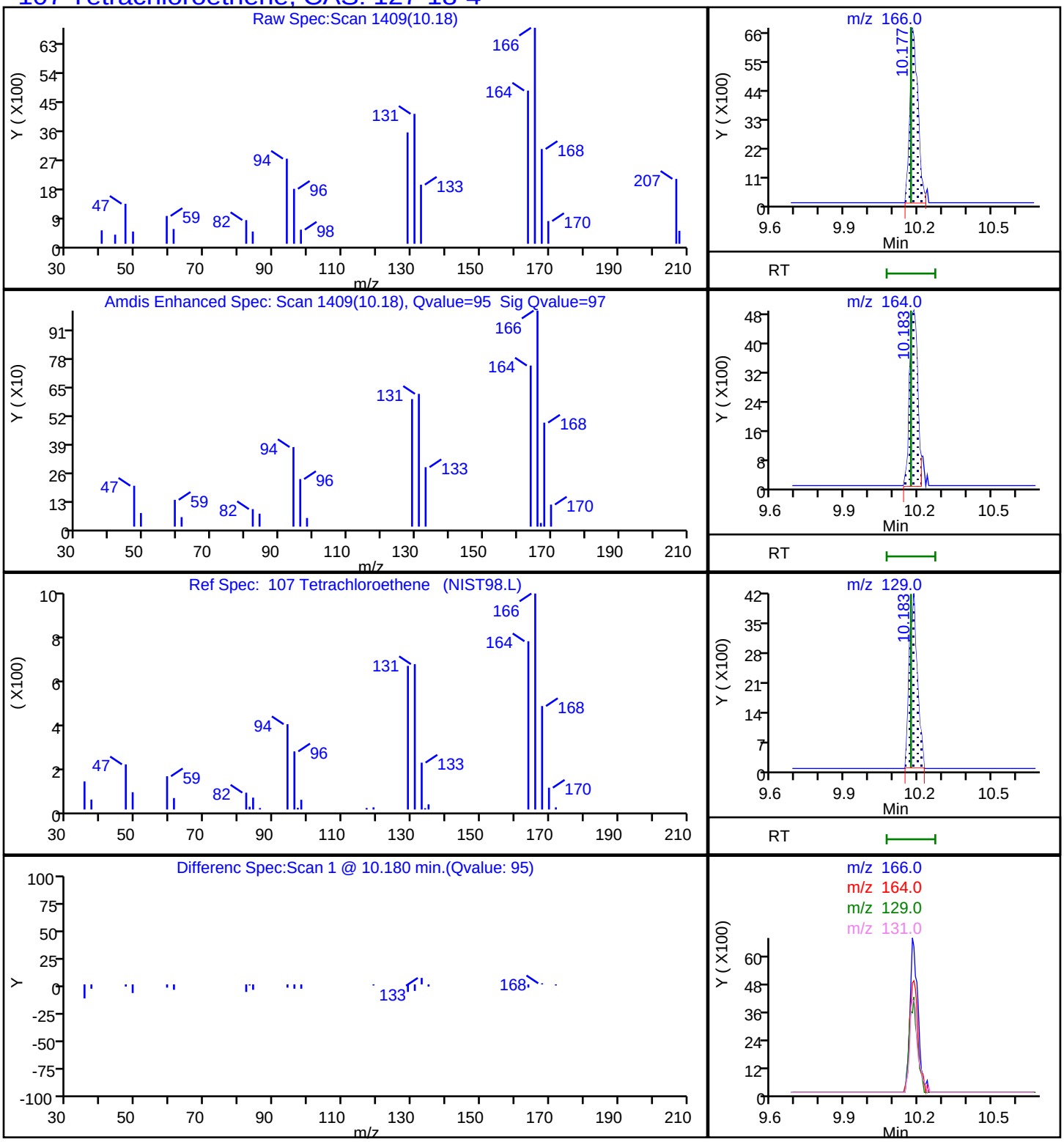
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X19.D				
Injection Date:	28-Sep-2024 00:52:30	Instrument ID:	19094		
Lims ID:	410-189680-A-12	Lab Sample ID:	410-189680-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

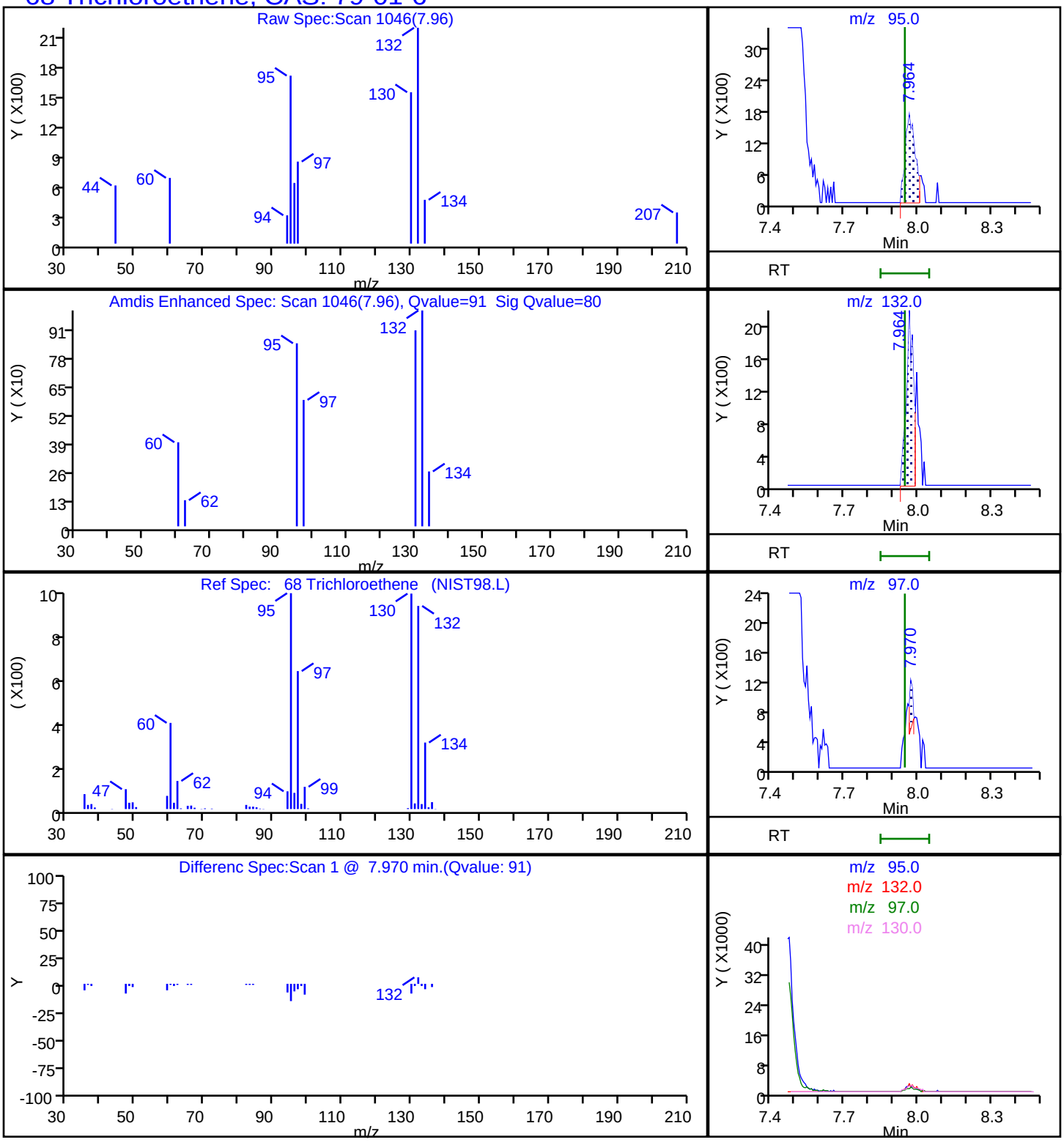
107 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X19.D				
Injection Date:	28-Sep-2024 00:52:30	Instrument ID:	19094		
Lims ID:	410-189680-A-12	Lab Sample ID:	410-189680-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	gaw91131	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	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.: 410-189680-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1
Lab Sample ID: 410-189680-13

Matrix: Water
Lab File ID: HS27X22.D

Analysis Method: 8260D
Date Collected: 09/23/2024 12:00

Sample wt/vol: 25(mL)
Date Analyzed: 09/28/2024 01:54

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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	1.4		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	0.23	J	0.50	0.10
75-35-4	1,1-Dichloroethene	0.11	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.47	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	22		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1
Lab Sample ID: 410-189680-13

Matrix: Water
Lab File ID: HS27X22.D

Analysis Method: 8260D
Date Collected: 09/23/2024 12:00

Sample wt/vol: 25(mL)
Date Analyzed: 09/28/2024 01:54

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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	0.89		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)	102		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X22.D
Lims ID: 410-189680-A-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 28-Sep-2024 01:54:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-023
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Sep-2024 09:07:12 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 09:07:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.056				ND	7
6 Vinyl chloride	62		2.166				ND	
9 Bromomethane	94		2.477				ND	
10 Chloroethane	64		2.538				ND	
17 1,1-Dichloroethene	96	3.343	3.337	0.006	89	2812	0.1078	
19 Acetone	43		3.367				ND	
23 Carbon disulfide	76		3.629				ND	7
27 Methylene Chloride	84		3.952				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.983	3.983	0.000	22	78425	50.0	
32 Methyl tert-butyl ether	73		4.330				ND	
33 trans-1,2-Dichloroethene	96		4.349				ND	
36 1,1-Dichloroethane	63	5.019	5.007	0.012	83	13220	0.2268	
41 2-Butanone (MEK)	43		5.812				ND	
42 cis-1,2-Dichloroethene	96	5.866	5.842	0.024	78	16324	0.4700	
48 Chlorobromomethane	128		6.184				ND	
50 Chloroform	83	6.330	6.336	-0.006	1	4803	0.0830	
$ 52 Dibromofluoromethane (Surr)	113	6.561	6.549	0.012	94	361337	10.2	
53 1,1,1-Trichloroethane	97	6.568	6.562	0.006	50	69206	1.40	
56 Carbon tetrachloride	117		6.781				ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.007	0.012	48	70367	9.73	
59 Benzene	78		7.043				ND	7
60 1,2-Dichloroethane	62		7.116				ND	
* 64 Fluorobenzene (IS)	96	7.464	7.458	0.006	99	1445182	10.0	
68 Trichloroethene	95	7.958	7.945	0.013	97	31305	0.8930	
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	
80 cis-1,3-Dichloropropene	75		9.195				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.372				ND	
$ 83 Toluene-d8 (Surr)	98	9.524	9.518	0.006	93	1474298	9.96	
84 Toluene	92		9.598				ND	7
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.171	10.171	0.000	98	933633	22.3	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	7
112 Ethylene Dibromide	107		10.579				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1138606	10.0	
115 Chlorobenzene	112		11.048				ND	
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	
120 o-Xylene	106		11.591				ND	
121 Styrene	104		11.603				ND	
122 Bromoform	173		11.762				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	94	520835	9.42	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	94	618572	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00013 Amount Added: 5.00 Units: uL Run Reagent

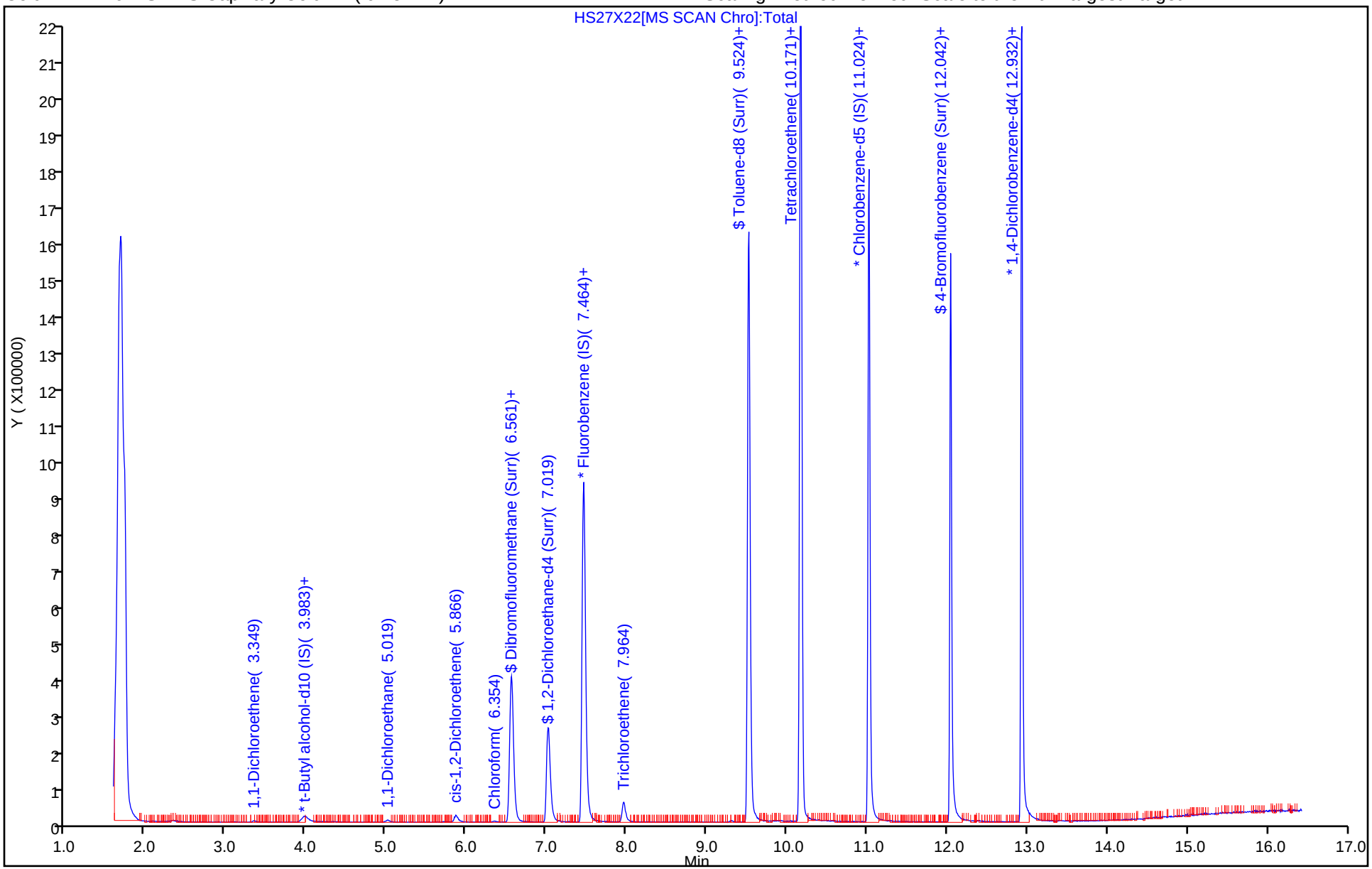
Report Date: 30-Sep-2024 09:07:13 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X22.D

Injection Date:	28-Sep-2024 01:54:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	410-189680-A-13	Lab Sample ID:	410-189680-13	Worklist Smp#:	23
Client ID:	HD-QC1-0/1-1				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X22.D				
Lims ID:	410-189680-A-13				
Client ID:	HD-QC1-0/1-1				
Sample Type:	Client				
Inject. Date:	28-Sep-2024 01:54:30	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-023				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Sep-2024 09:07:12	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				

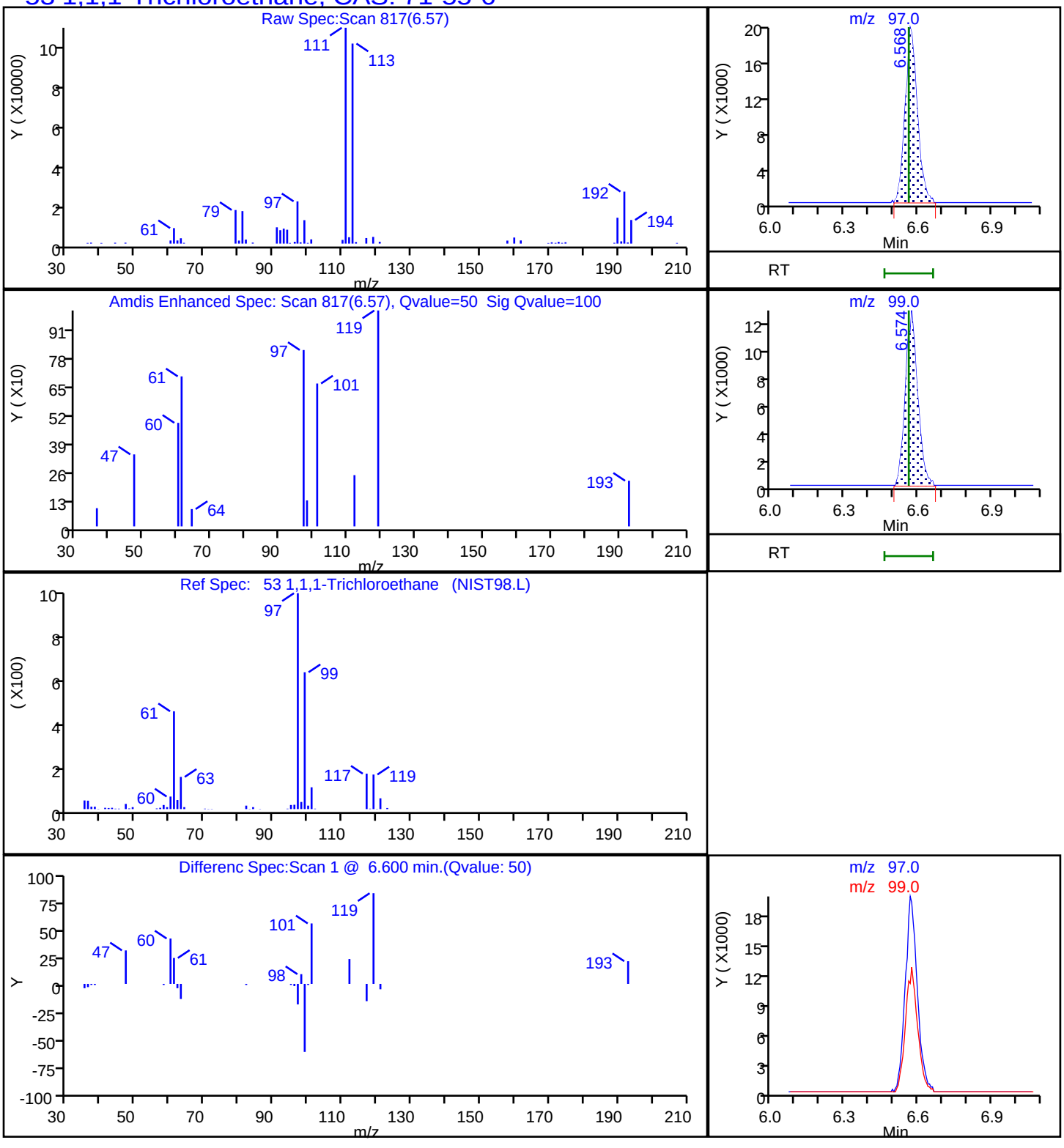
First Level Reviewer: FQ4L Date: 30-Sep-2024 09:07:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.2	102.10
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.73	97.34
$ 83 Toluene-d8 (Surr)	10.0	9.96	99.56
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.42	94.19

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X22.D				
Injection Date:	28-Sep-2024 01:54:30	Instrument ID:	19094		
Lims ID:	410-189680-A-13	Lab Sample ID:	410-189680-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	gaw91131	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

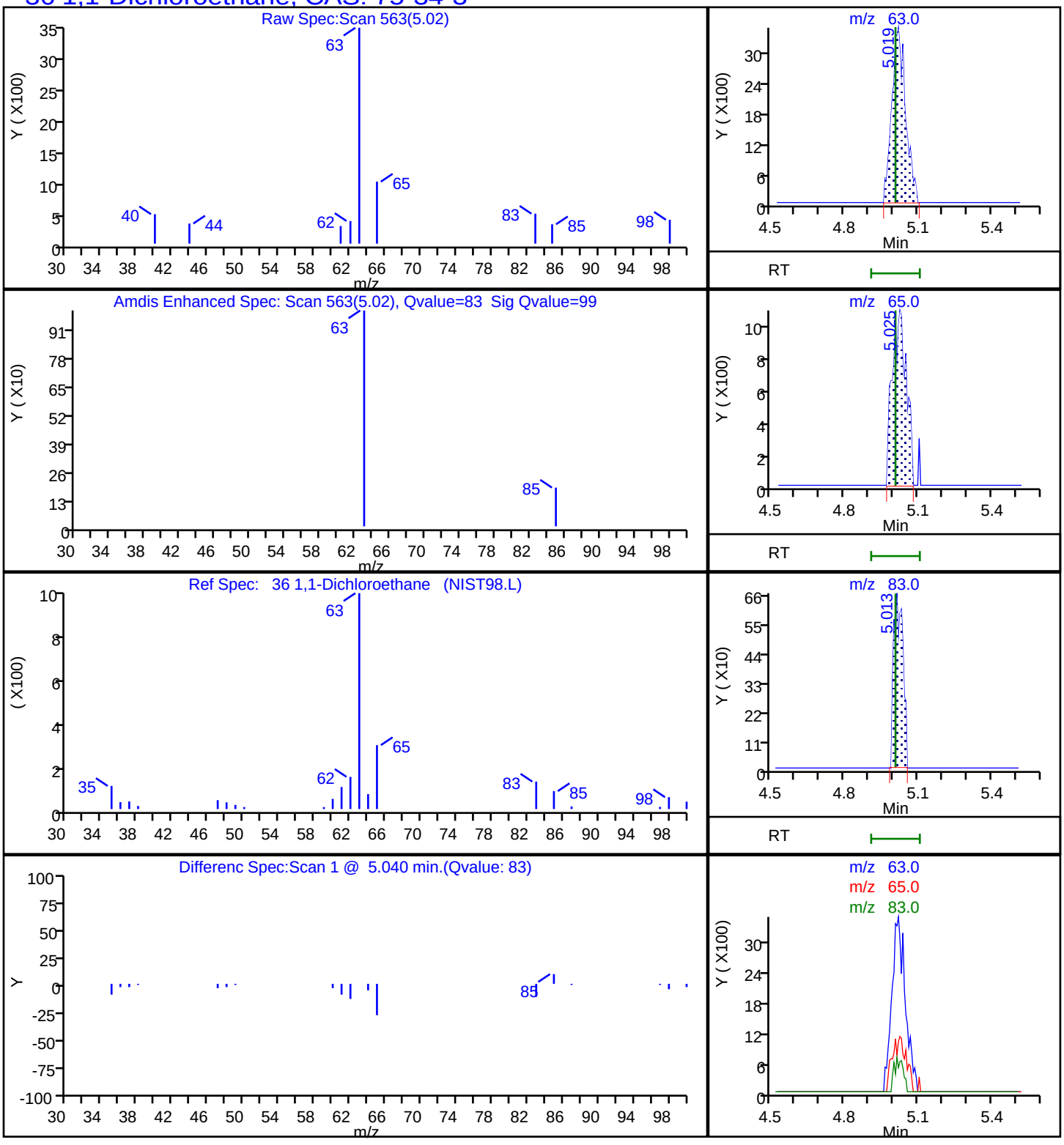
53 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X22.D				
Injection Date:	28-Sep-2024 01:54:30	Instrument ID:	19094		
Lims ID:	410-189680-A-13	Lab Sample ID:	410-189680-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	gaw91131	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

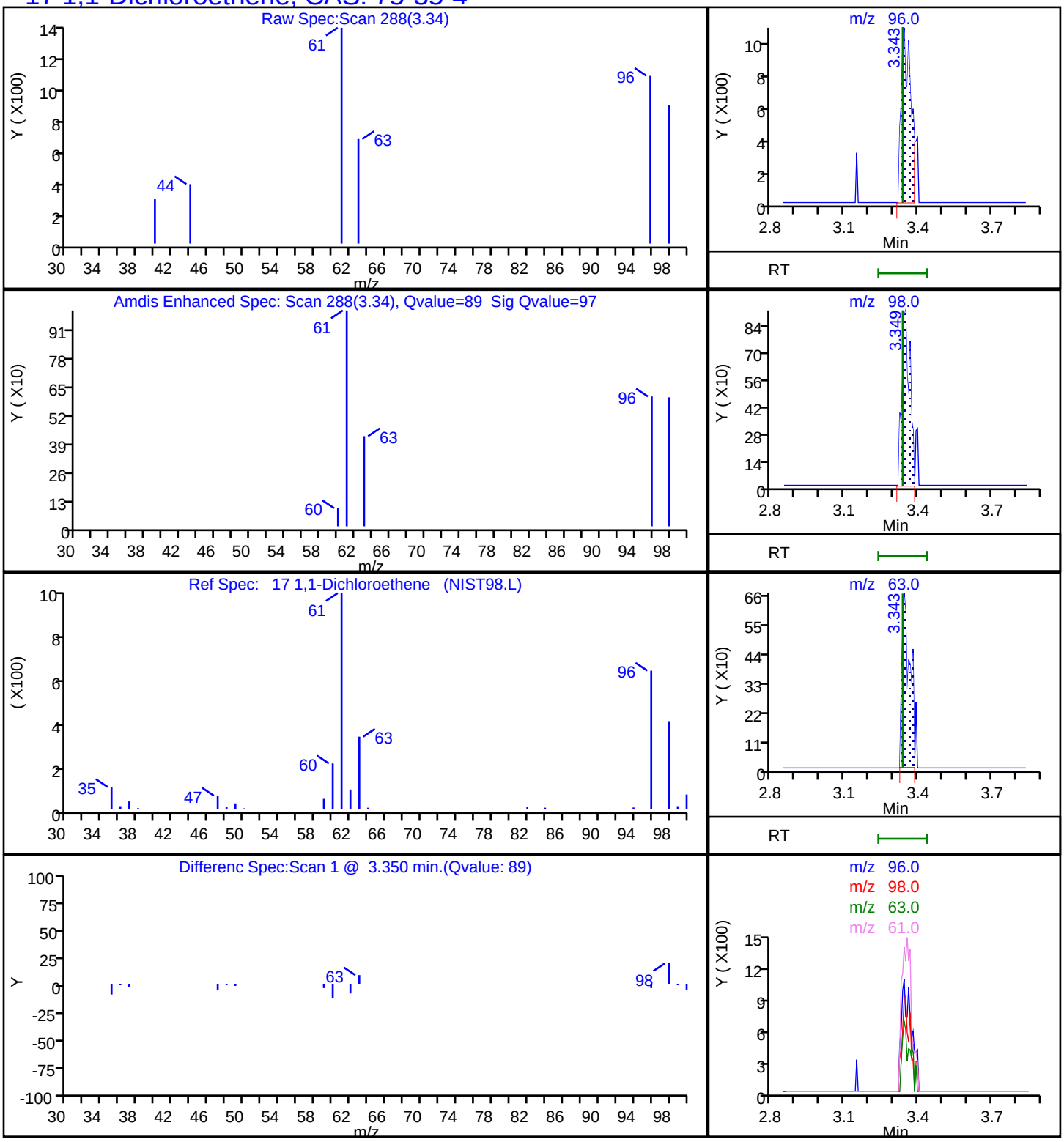
36 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X22.D				
Injection Date:	28-Sep-2024 01:54:30	Instrument ID:	19094		
Lims ID:	410-189680-A-13	Lab Sample ID:	410-189680-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	gaw91131	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

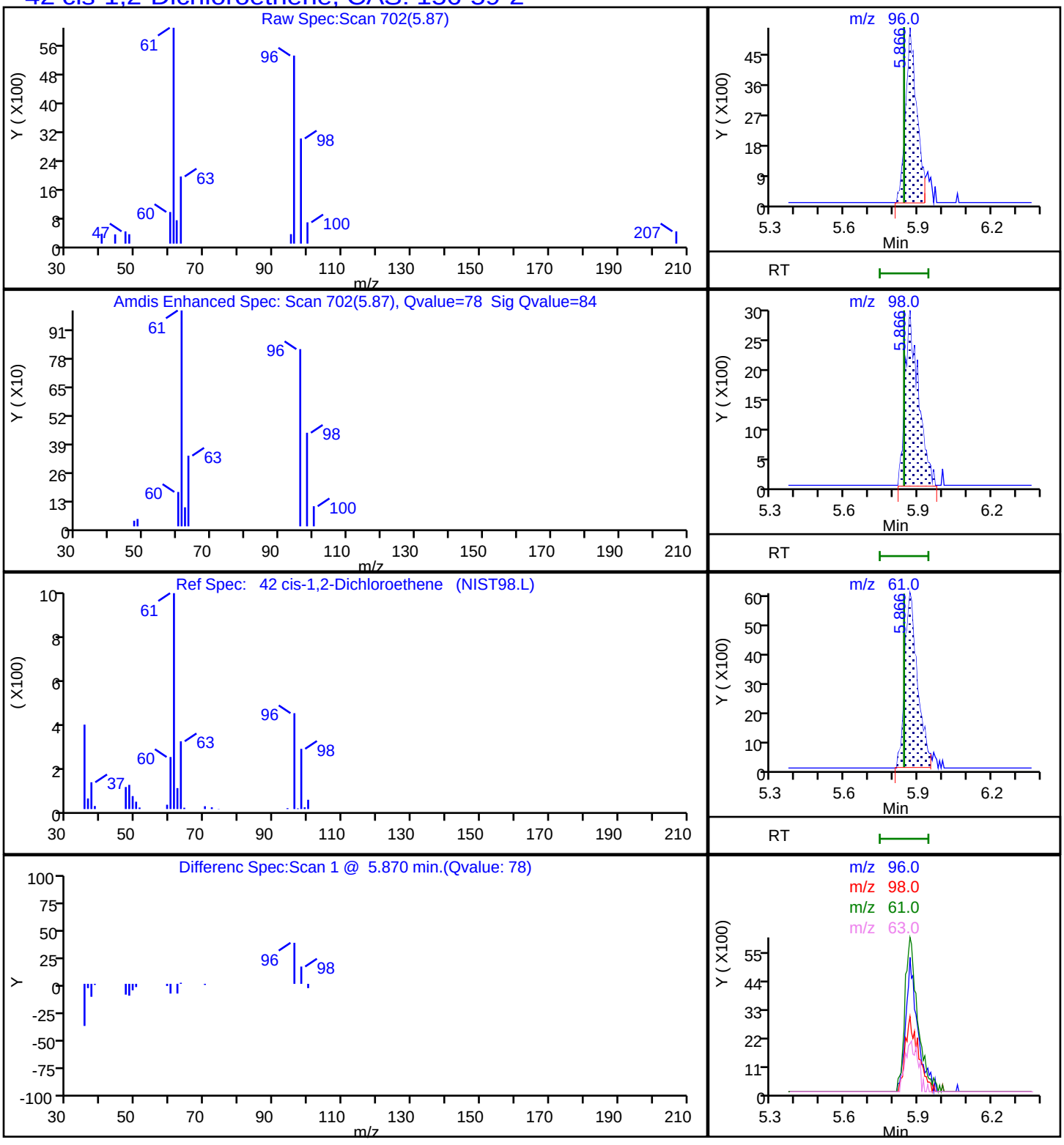
17 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X22.D				
Injection Date:	28-Sep-2024 01:54:30	Instrument ID:	19094		
Lims ID:	410-189680-A-13	Lab Sample ID:	410-189680-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	gaw91131	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

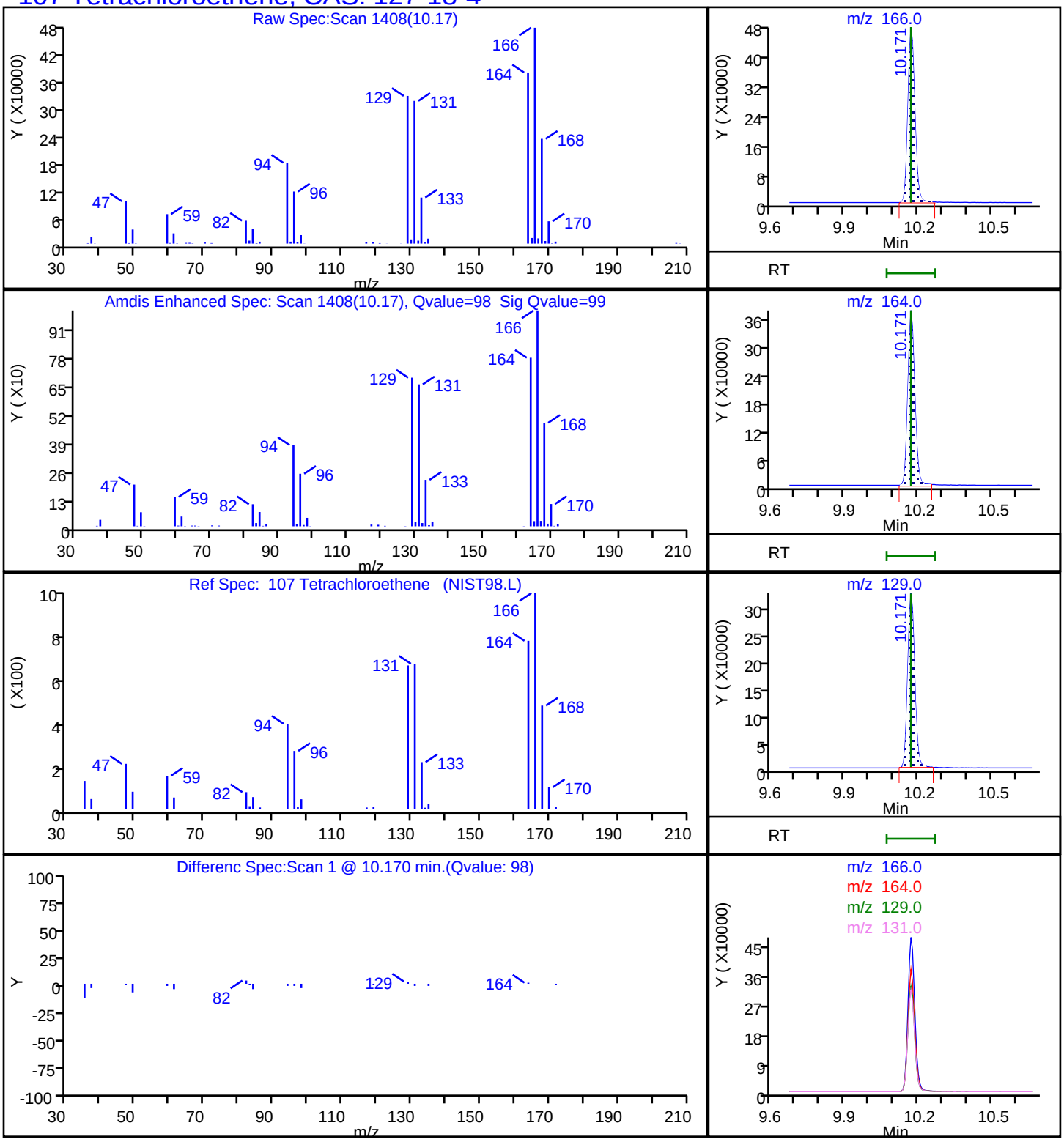
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X22.D				
Injection Date:	28-Sep-2024 01:54:30	Instrument ID:	19094		
Lims ID:	410-189680-A-13	Lab Sample ID:	410-189680-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	gaw91131	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

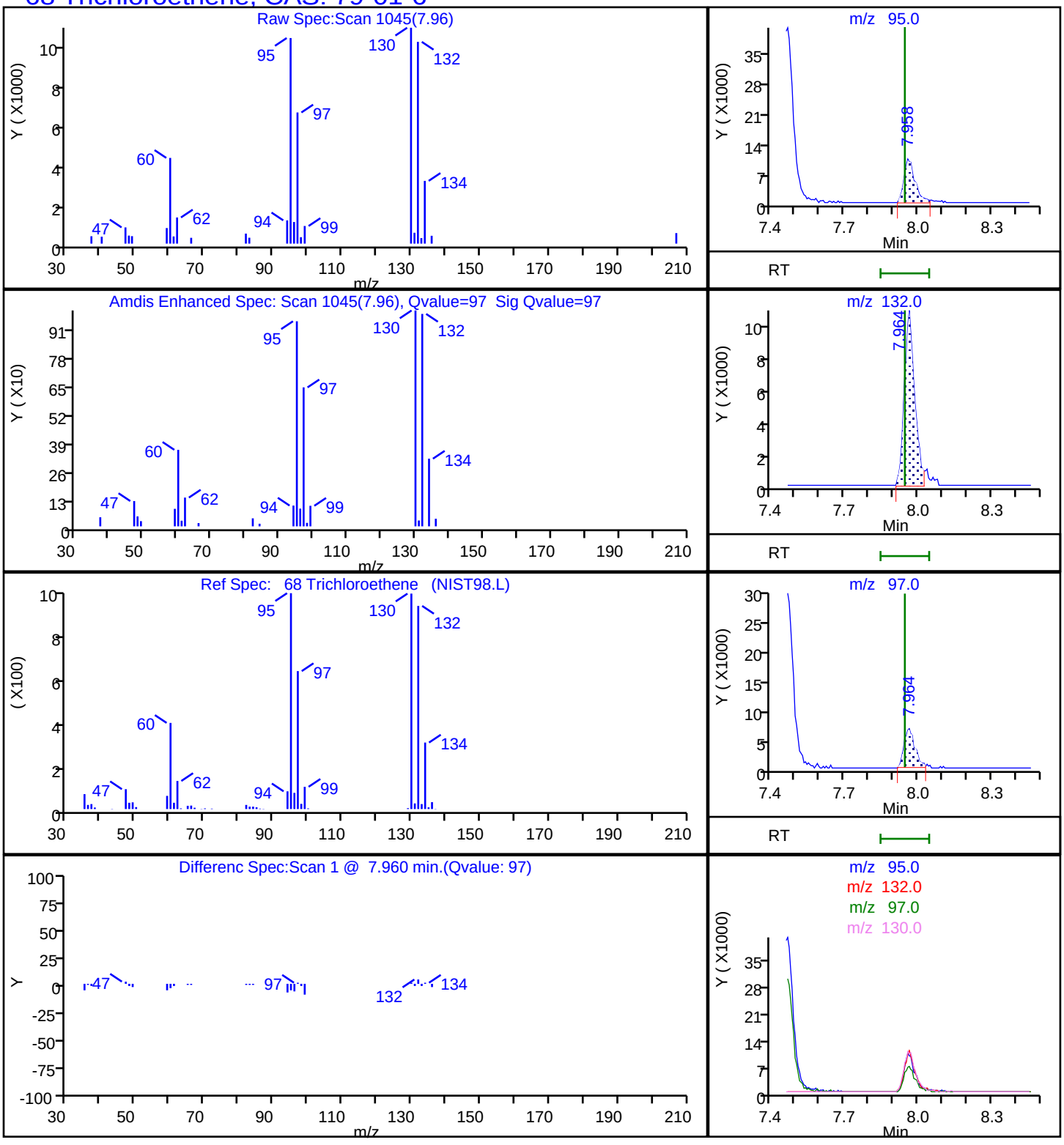
107 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X22.D				
Injection Date:	28-Sep-2024 01:54:30	Instrument ID:	19094		
Lims ID:	410-189680-A-13	Lab Sample ID:	410-189680-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	gaw91131	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



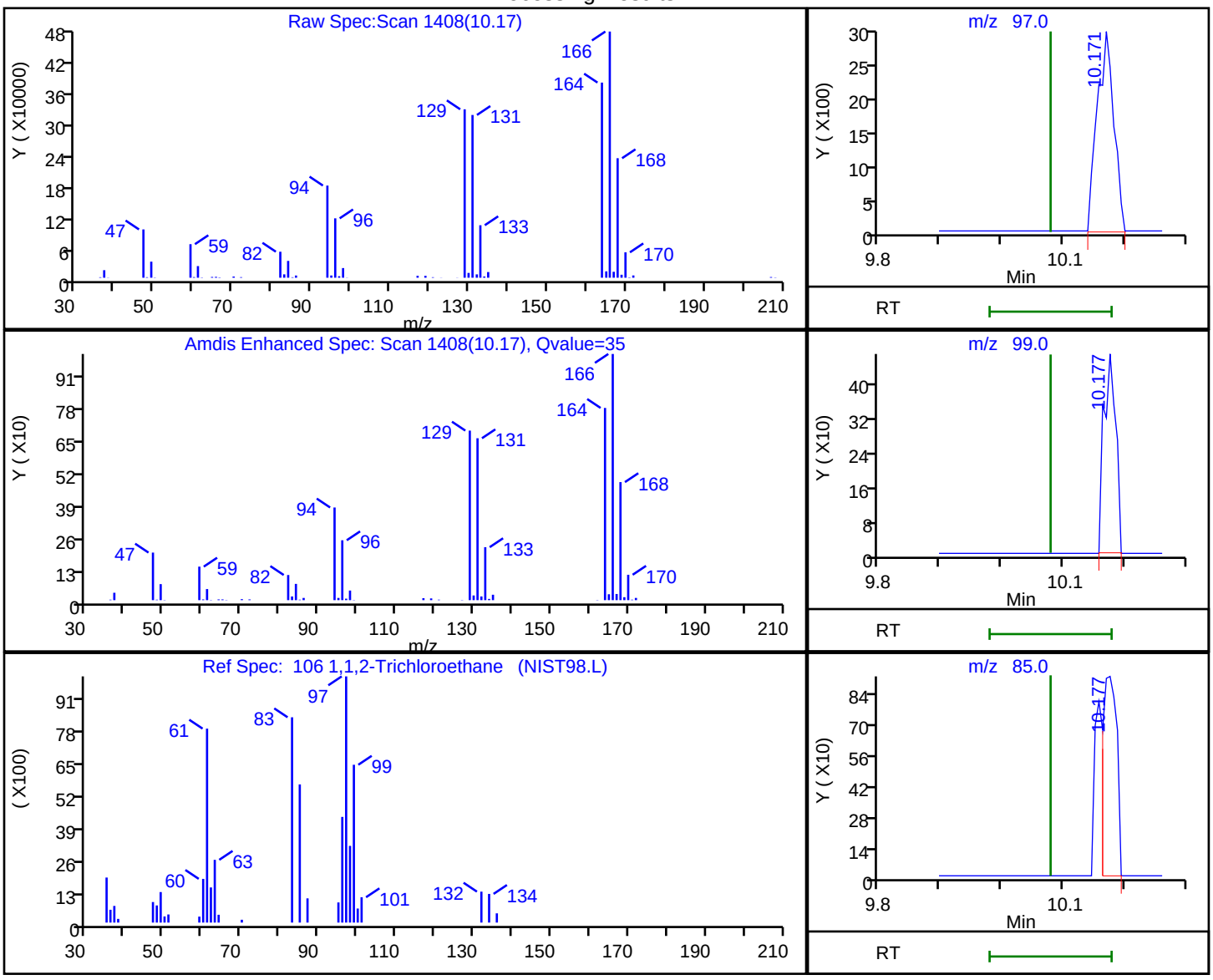
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X22.D				
Injection Date:	28-Sep-2024 01:54:30	Instrument ID:	19094		
Lims ID:	410-189680-A-13	Lab Sample ID:	410-189680-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	gaw91131	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

106 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
10.17	97.00	5518	0.230607
10.18	99.00	637	
10.18	85.00	1457	
10.16	83.00	13134	

Reviewer: FQ4L, 30-Sep-2024 09:06:44 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.: 410-189680-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2
Lab Sample ID: 410-189680-14

Matrix: Water
Lab File ID: HS27X06.D

Analysis Method: 8260D
Date Collected: 09/23/2024 00:00

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 20:21

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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	0.16	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 Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2
Lab Sample ID: 410-189680-14

Matrix: Water
Lab File ID: HS27X06.D

Analysis Method: 8260D
Date Collected: 09/23/2024 00:00

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 20:21

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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)	104		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X06.D
Lims ID: 410-189680-A-14
Client ID: HD-QC1-0/1-2
Sample Type: Client
Inject. Date: 27-Sep-2024 20:21:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-007
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Sep-2024 02:01:55 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:34:40

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	5 Chloromethane	50		2.056				ND	
	6 Vinyl chloride	62		2.166				ND	
	9 Bromomethane	94		2.477				ND	
	10 Chloroethane	64		2.538				ND	
	17 1,1-Dichloroethene	96		3.337				ND	
	19 Acetone	43		3.367				ND	
	23 Carbon disulfide	76	3.629	3.629	0.000	98	12337	0.1609	
	27 Methylene Chloride	84		3.952				ND	
*	28 t-Butyl alcohol-d10 (IS)	65	3.965	3.983	-0.018	22	83640	50.0	
	32 Methyl tert-butyl ether	73		4.330				ND	
	33 trans-1,2-Dichloroethene	96		4.349				ND	
	36 1,1-Dichloroethane	63		5.007				ND	
	41 2-Butanone (MEK)	43		5.812				ND	
	42 cis-1,2-Dichloroethene	96		5.842				ND	
	48 Chlorobromomethane	128		6.184				ND	
	50 Chloroform	83		6.336				ND	
$	52 Dibromofluoromethane (Surr)	113	6.555	6.549	0.006	94	379371	10.4	
	53 1,1,1-Trichloroethane	97		6.562				ND	
	56 Carbon tetrachloride	117		6.781				ND	
$	58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.007	0.012	48	74506	10.0	
	59 Benzene	78		7.043				ND	
	60 1,2-Dichloroethane	62		7.116				ND	
*	64 Fluorobenzene (IS)	96	7.458	7.458	0.000	99	1490610	10.0	
	68 Trichloroethene	95		7.945				ND	
	70 1,2-Dichloropropane	63		8.281				ND	
	76 Dichlorobromomethane	83		8.634				ND	
	80 cis-1,3-Dichloropropene	75		9.195				ND	
	82 4-Methyl-2-pentanone (MIBK)	43		9.372				ND	
$	83 Toluene-d8 (Surr)	98	9.518	9.518	0.000	93	1527024	10.0	
	84 Toluene	92		9.598				ND	
	85 trans-1,3-Dichloropropene	75		9.872				ND	
	106 1,1,2-Trichloroethane	97		10.079				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166		10.171				ND	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.579				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1168967	10.0	
115 Chlorobenzene	112		11.048				ND	
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	
120 o-Xylene	106		11.591				ND	
121 Styrene	104		11.603				ND	
122 Bromoform	173		11.762				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	94	540432	9.52	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	94	629540	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

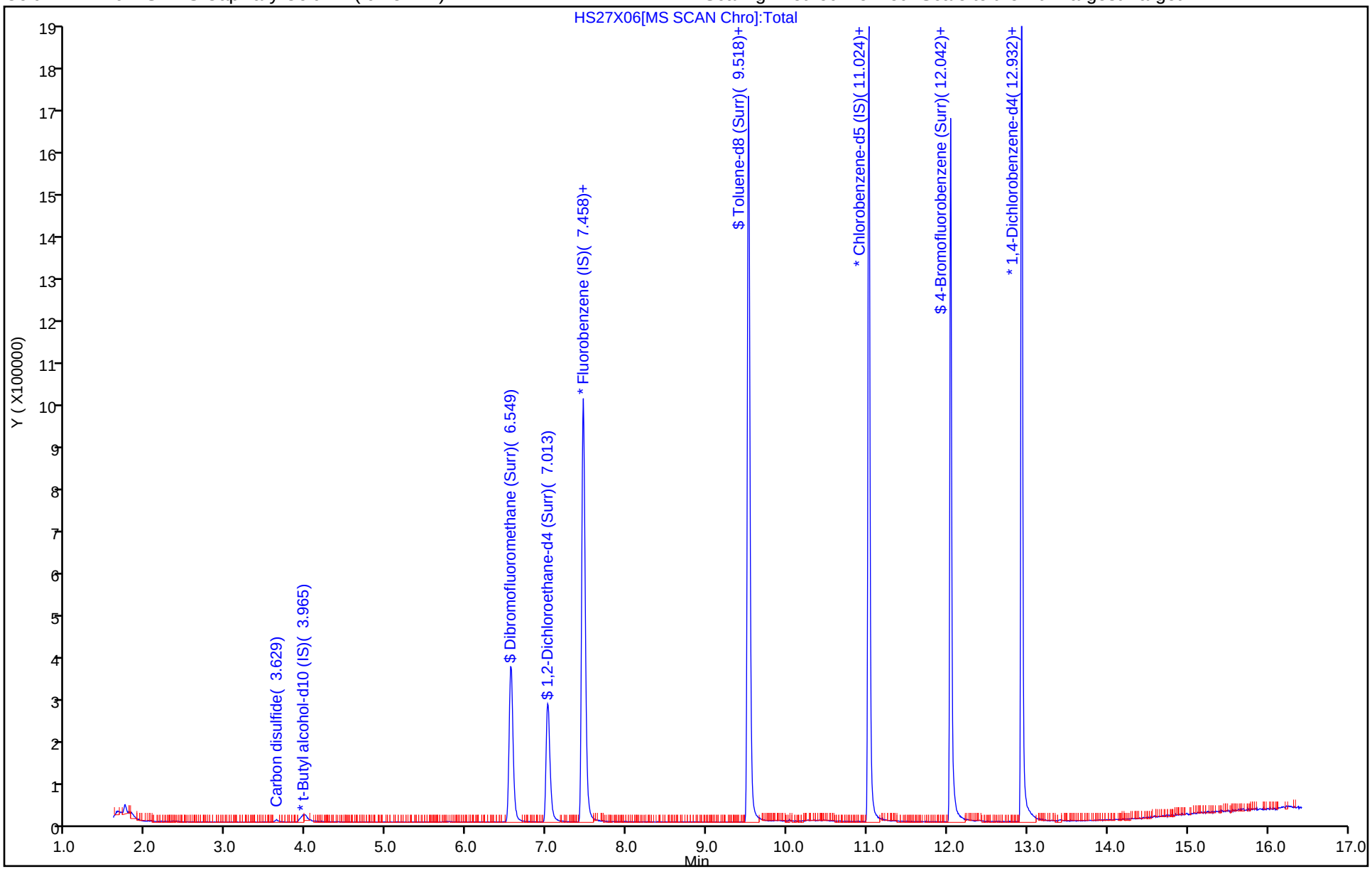
MSV_LLcentISS_00013 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 30-Sep-2024 08:34:41 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X06.D				
Injection Date:	27-Sep-2024 20:21:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	410-189680-A-14	Lab Sample ID:	410-189680-14	Worklist Smp#:	7
Client ID:	HD-QC1-0/1-2				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X06.D				
Lims ID:	410-189680-A-14				
Client ID:	HD-QC1-0/1-2				
Sample Type:	Client				
Inject. Date:	27-Sep-2024 20:21:30	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-007				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	28-Sep-2024 02:01:55	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				

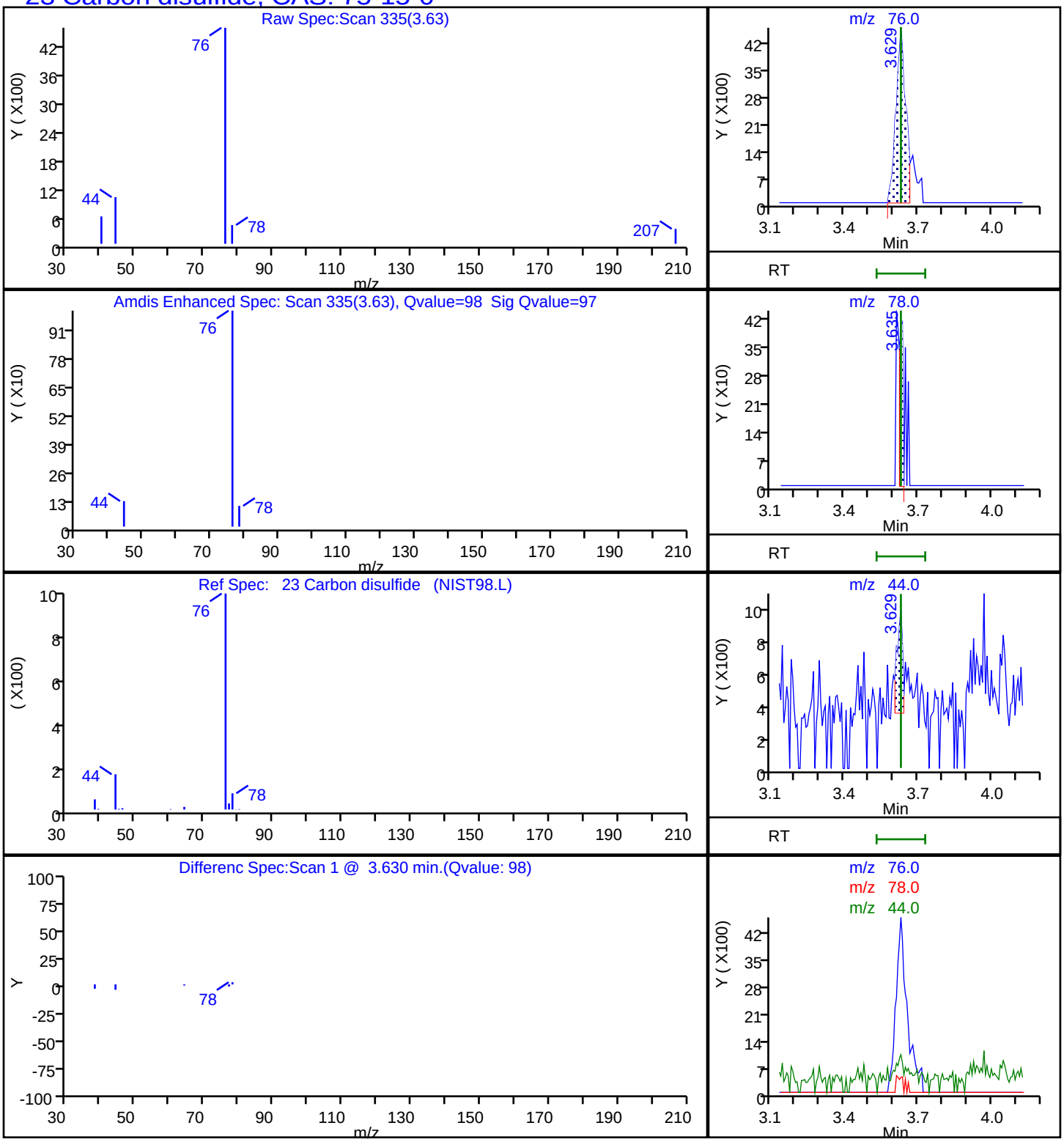
First Level Reviewer: FQ4L Date: 30-Sep-2024 08:34:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.4	103.93
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.0	99.92
$ 83 Toluene-d8 (Surr)	10.0	10.0	100.45
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.52	95.20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X06.D				
Injection Date:	27-Sep-2024 20:21:30	Instrument ID:	19094		
Lims ID:	410-189680-A-14	Lab Sample ID:	410-189680-14		
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_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

23 Carbon disulfide, CAS: 75-15-0



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 14:03 Calibration End Date: 07/17/2024 16:07 Calibration ID: 63921

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-529291/3	HL17X02.D
Level 2	IC 410-529291/4	HL17X03.D
Level 3	IC 410-529291/5	HL17X04.D
Level 4	IC 410-529291/6	HL17X05.D
Level 5	IC 410-529291/7	HL17X06.D
Level 6	IC 410-529291/8	HL17X07.D
Level 7	IC 410-529291/9	HL17X08.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorodifluoromethane	0.3813 0.3257	0.3312 0.3292	0.3107	0.2904	0.3447	Ave		0.3305				8.6		20.0			
Methoxymethane	0.4355 0.3206	0.3702 0.3024	0.3533	0.3192	0.3065	Ave		0.3440				13.8		20.0			
Acetonitrile	+++++ 0.0091	+++++ 0.0079	0.0076	0.0085	0.0081	Ave		0.0083				6.9		20.0			
Vinyl acetate	0.1781 0.2749	0.1967 0.2656	0.2525	0.2234	0.2422	Ave		0.2333				15.4		20.0			
Ethyl acetate	+++++ 0.1025	0.0664 0.0978	0.0849	0.0813	0.0906	Ave		0.0873				14.8		20.0			
2-Chloroethyl vinyl ether	+++++ 0.0624	0.0428 0.0658	0.0486	0.0546	0.0584	Ave		0.0554				15.6		20.0			
cis-1,4-Dichloro-2-butene	0.0553 0.0817	0.0578 0.0845	0.0583	0.0694	0.0741	Ave		0.0687				17.4		20.0			
Cyclohexanone	0.1214 0.2615	0.1778 0.2562	0.1986	0.2238	0.2355	Lin	-2.545	0.2589							1.0000		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 410-189680-1 | Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 | GC Column: R-624SilMS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 14:03 | Calibration End Date: 07/17/2024 16:07 | Calibration ID: 63921

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-529291/3	HL17X02.D
Level 2	IC 410-529291/4	HL17X03.D
Level 3	IC 410-529291/5	HL17X04.D
Level 4	IC 410-529291/6	HL17X05.D
Level 5	IC 410-529291/7	HL17X06.D
Level 6	IC 410-529291/8	HL17X07.D
Level 7	IC 410-529291/9	HL17X08.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorodifluoromethane	FB	Ave	15691 683305	34475 1753716	65027	121242	364311	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methoxymethane	FB	Ave	17924 672649	38533 1610639	73952	133245	323925	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetonitrile	FB	Ave	+++++ 95496	+++++ 211065	7976	17734	43052	+++++ 50.0	+++++ 125	5.00	10.0	25.0
Vinyl acetate	FB	Ave	7330 576715	20476 1414913	52844	93238	256035	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl acetate	FB	Ave	+++++ 215122	6912 521003	17776	33957	95707	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloroethyl vinyl ether	FB	Ave	+++++ 130915	4451 350534	10166	22776	61749	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,4-Dichloro-2-butene	CBZd5	Ave	3449 258174	9029 682170	18496	43976	118698	0.400 20.0	1.000 50.0	2.00	4.00	10.00
Cyclohexanone	TBAd10	Lin	2386 263745	9112 630647	19332	46510	114454	10.0 500	25.0 1250	50.0	100	250

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 14:03 Calibration End Date: 07/17/2024 16:07 Calibration ID: 63921

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-529291/3	HL17X02.D
Level 2	IC 410-529291/4	HL17X03.D
Level 3	IC 410-529291/5	HL17X04.D
Level 4	IC 410-529291/6	HL17X05.D
Level 5	IC 410-529291/7	HL17X06.D
Level 6	IC 410-529291/8	HL17X07.D
Level 7	IC 410-529291/9	HL17X08.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Chlorodifluoromethane	15.4 -0.4	0.2	-6.0	-12.1	4.3	-1.4	50 30	30	30	30	30	30
Methoxymethane	26.6 -12.1	7.6	2.7	-7.2	-10.9	-6.8	50 30	30	30	30	30	30
Acetonitrile	+++++ -4.0	+++++	-7.7	2.9	-1.4	10.2	30		50	30	30	30
Vinyl acetate	-23.7 13.8	-15.7	8.2	-4.3	3.8	17.8	50 30	30	30	30	30	30
Ethyl acetate	+++++ 12.1	-23.9	-2.7	-6.8	3.8	17.5	30	50	30	30	30	30
2-Chloroethyl vinyl ether	+++++ 18.7	-22.8	-12.4	-1.6	5.4	12.6	30	50	30	30	30	30
cis-1,4-Dichloro-2-butene	-19.6 22.9	-16.0	-15.1	1.0	7.9	18.9	50 30	30	30	30	30	30
Cyclohexanone	45.2 -0.2	8.0	-3.6	-3.7	-5.1	3.0	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X02.D
Lims ID: IC std1 0.2
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 17-Jul-2024 14:03:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0119602-003
Misc. Info.: sm .2
Operator ID: knk41612 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub52

Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jul-2024 22:30:36 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1666

First Level Reviewer: DVW2 Date: 18-Jul-2024 08:33:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.837	1.849	-0.012	91	5783	0.2000	0.1934	
3 Chlorodifluoromethane	51	1.892	1.898	-0.006	93	15691	0.2000	0.2307	
4 Dimethyl ether	45	1.947	1.947	0.000	96	17924	0.2000	0.2532	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.245	2.239	0.006	47	11819	0.2000	0.2092	M
25 Acetonitrile	41	3.806	3.763	0.043	63	1876	1.00	1.10	M
* 28 t-Butyl alcohol-d10 (IS)	65	3.958	3.970	-0.012	28	98302	50.0	50.0	
35 Vinyl acetate	43	5.098	5.025	0.073	37	7330	0.2000	0.1527	M
45 Ethyl acetate	43	5.995	5.909	0.086	1	1603	0.2000	0.0893	
61 Isopropyl acetate	43	7.159	7.147	0.012	71	9058	0.2000	0.1874	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2057737	10.0	10.0	
75 n-Propyl acetate	61	8.543	8.470	0.073	10	104	0.2000	0.2306	M
78 2-Chloroethyl vinyl ether	63	9.079	9.018	0.061	1	1274	0.2000	0.1117	
110 n-Butyl acetate	43	10.494	10.439	0.055	25	4009	0.2000	0.2194	M
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1560374	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.951	11.945	0.006	27	3449	0.3999	0.3216	
125 Cyclohexanone	55	11.987	11.969	0.018	78	2386	10.0	14.5	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	870282	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

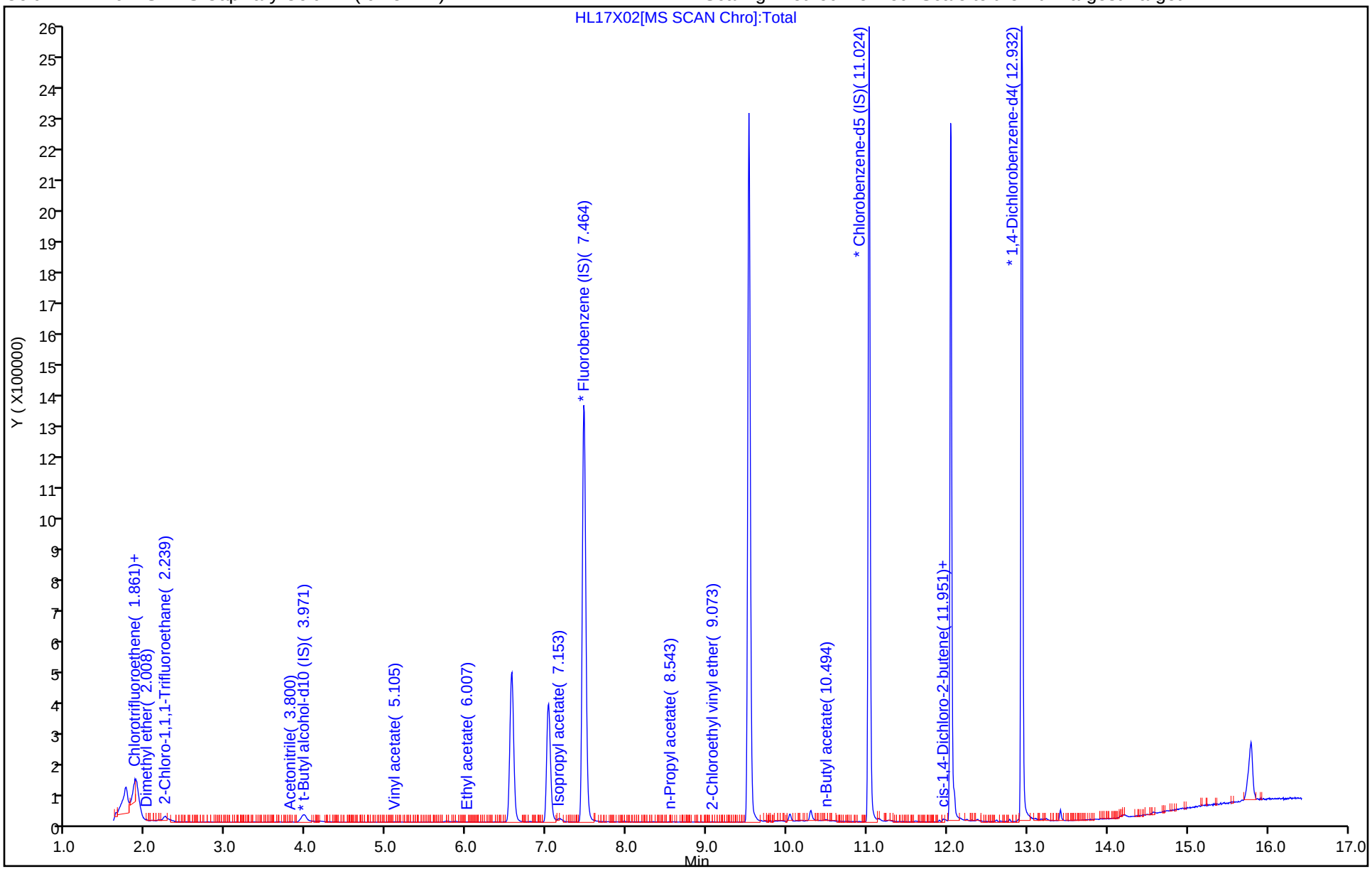
MSV_CCV_V5ACE_00038	Amount Added:	0.20	Units: uL
MSV_CCV_CYC_00009	Amount Added:	1.60	Units: uL
MSV_V_SMRV4_00072	Amount Added:	1.00	Units: uL
MSV_DME_00056	Amount Added:	0.20	Units: uL
MSV_LLcentISO_00008	Amount Added:	5.00	Units: uL

Report Date: 18-Jul-2024 22:30:36 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X02.D				
Injection Date:	17-Jul-2024 14:03:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	IC std1 0.2			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSV_19094_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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

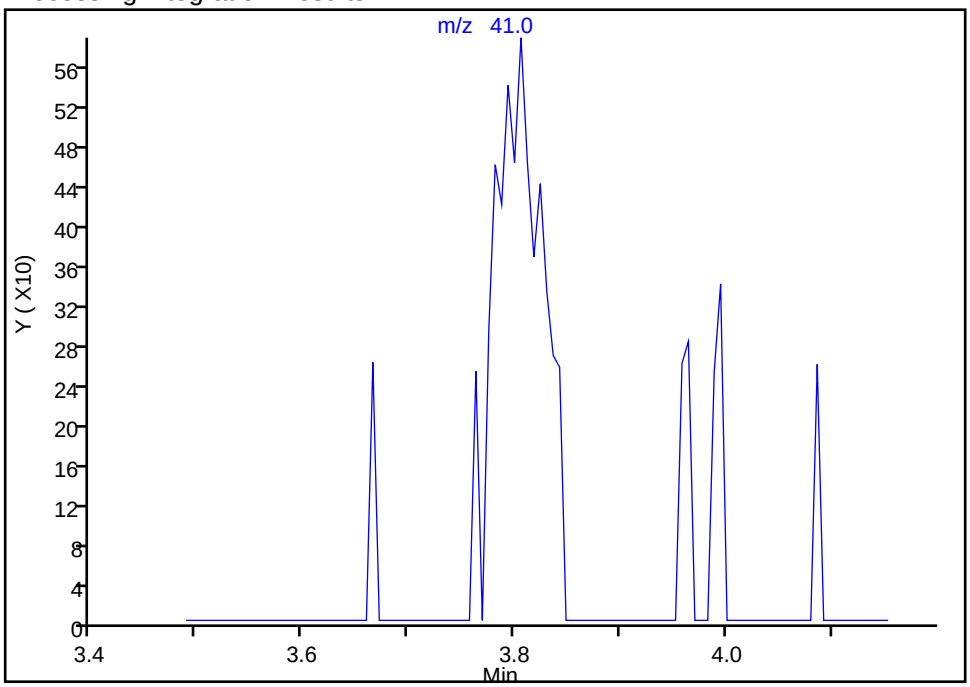
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X02.D
Injection Date: 17-Jul-2024 14:03:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

25 Acetonitrile, CAS: 75-05-8

Signal: 1

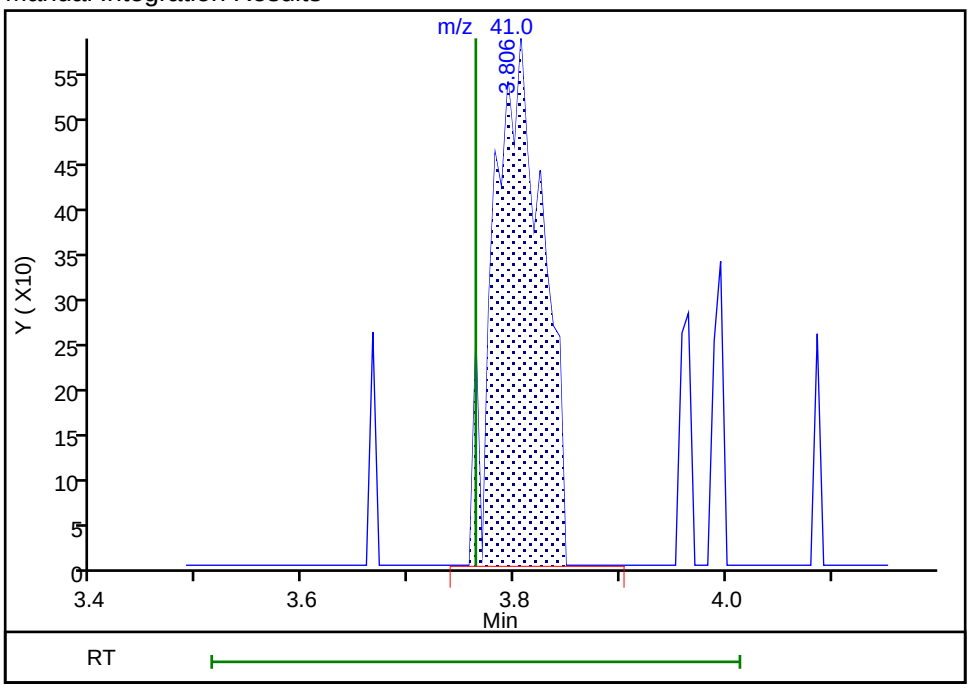
Not Detected
Expected RT: 3.76

Processing Integration Results



Manual Integration Results

RT: 3.81
Area: 1876
Amount: 1.103910
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:33:04 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

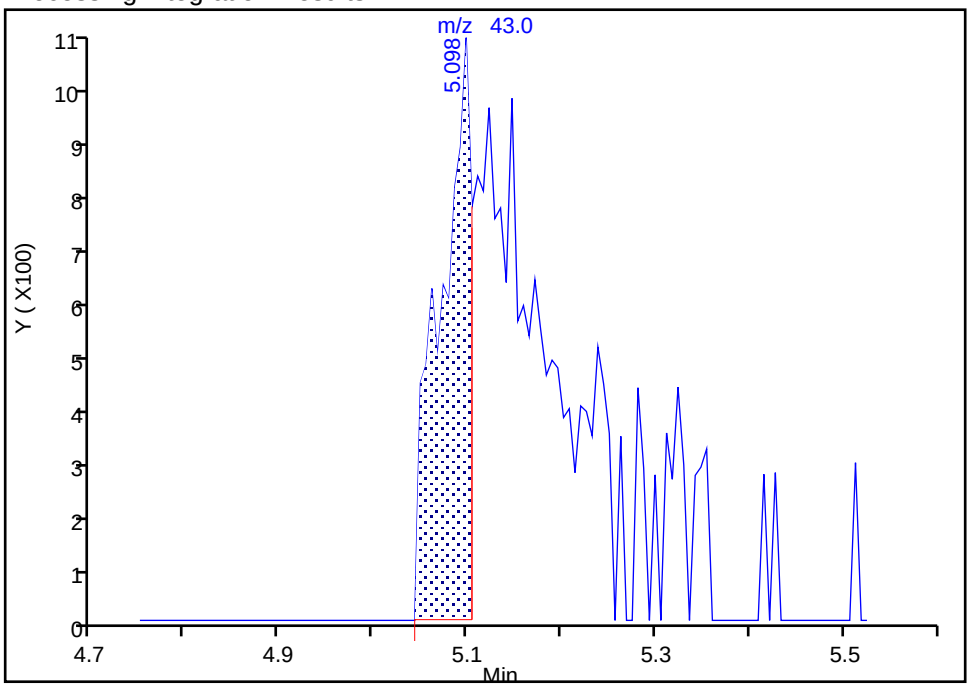
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X02.D
Injection Date: 17-Jul-2024 14:03:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

35 Vinyl acetate, CAS: 108-05-4

Signal: 1

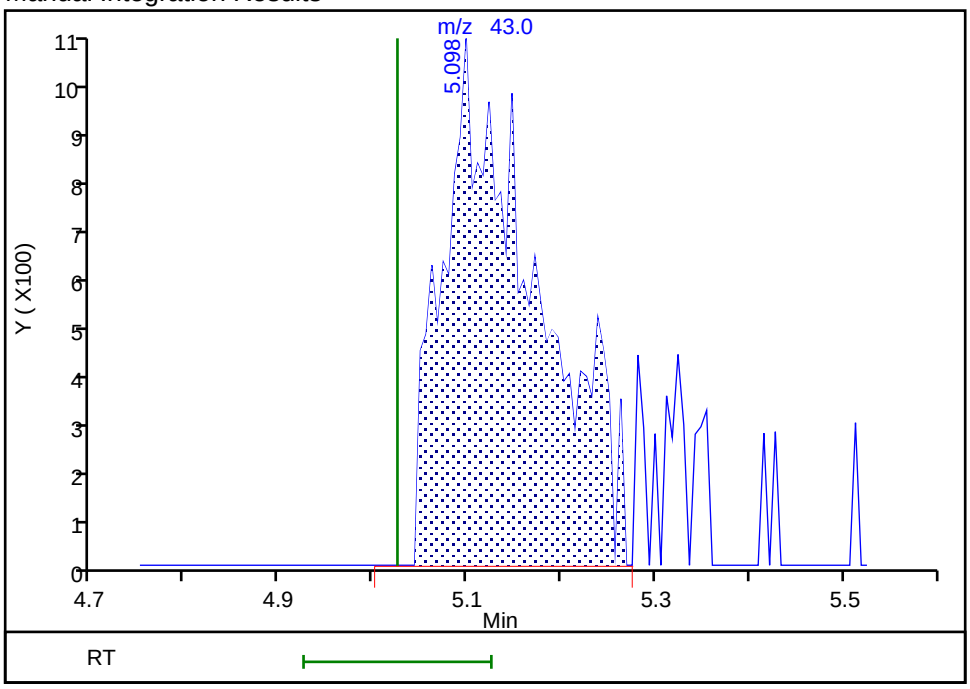
Processing Integration Results

RT: 5.10
Area: 2420
Amount: 0.288685
Amount Units: ug/l



Manual Integration Results

RT: 5.10
Area: 7330
Amount: 0.152653
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:33:11 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X03.D
Lims ID: IC std2 0.5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 17-Jul-2024 14:24:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0119602-004
Misc. Info.: sm .5
Operator ID: knk41612 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub52

Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jul-2024 22:30:37 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1666

First Level Reviewer: DVW2 Date: 18-Jul-2024 08:32:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.831	1.849	-0.018	92	15458	0.5000	0.5112	
3 Chlorodifluoromethane	51	1.886	1.898	-0.012	97	34475	0.5000	0.5012	
4 Dimethyl ether	45	1.940	1.947	-0.007	99	38533	0.5000	0.5382	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.227	2.239	-0.012	34	26826	0.5000	0.4694	
25 Acetonitrile	41	4.166	3.763	0.403	24	1967	2.50	1.14	M
* 28 t-Butyl alcohol-d10 (IS)	65	3.971	3.970	0.001	27	102474	50.0	50.0	
35 Vinyl acetate	43	5.074	5.025	0.049	95	20476	0.5000	0.4216	M
45 Ethyl acetate	43	5.976	5.909	0.067	3	6912	0.5000	0.3805	M
61 Isopropyl acetate	43	7.159	7.147	0.012	97	21720	0.5000	0.4442	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2081523	10.0	10.0	
75 n-Propyl acetate	61	8.506	8.470	0.036	89	2399	0.5000	0.4533	M
78 2-Chloroethyl vinyl ether	63	9.049	9.018	0.031	89	4451	0.5000	0.3858	
110 n-Butyl acetate	43	10.469	10.439	0.030	95	10771	0.5000	0.3808	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1563532	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.957	11.945	0.012	27	9029	1.00	0.8403	
125 Cyclohexanone	55	11.975	11.969	0.006	86	9112	25.0	27.0	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	858128	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

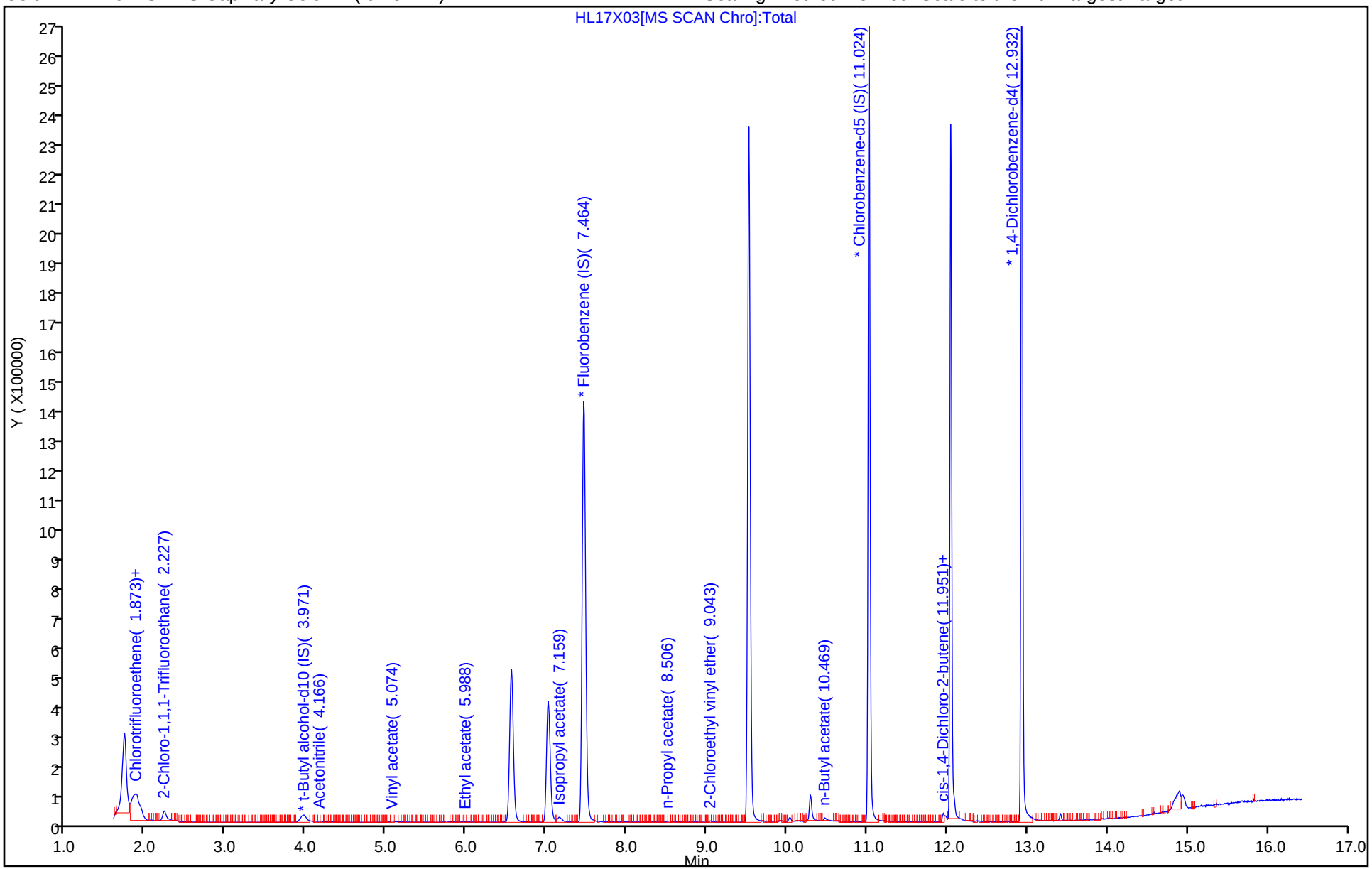
MSV_CCV_V5ACE_00038	Amount Added:	0.50	Units: uL
MSV_CCV_CYC_00009	Amount Added:	4.00	Units: uL
MSV_V_SMRV4_00072	Amount Added:	2.50	Units: uL
MSV_DME_00056	Amount Added:	0.50	Units: uL
MSV_LLcentISO_00008	Amount Added:	5.00	Units: uL

Report Date: 18-Jul-2024 22:30:38 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X03.D				
Injection Date:	17-Jul-2024 14:24:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	IC std2 0.5			Worklist Smp#:	4
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSV_19094_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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

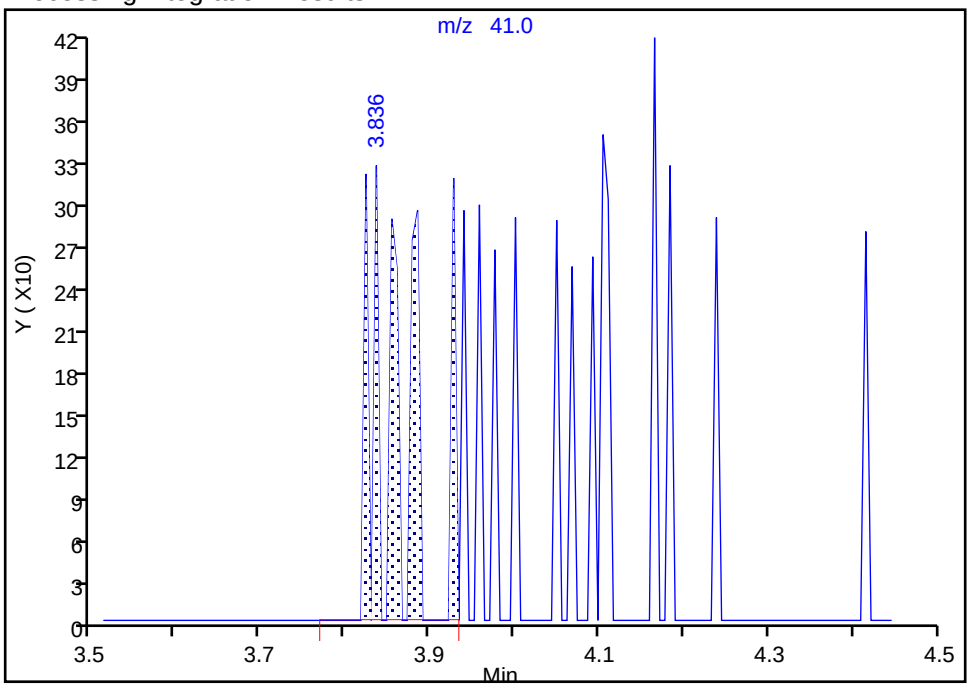
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X03.D				
Injection Date:	17-Jul-2024 14:24:30	Instrument ID:	19094		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Acetonitrile, CAS: 75-05-8

Signal: 1

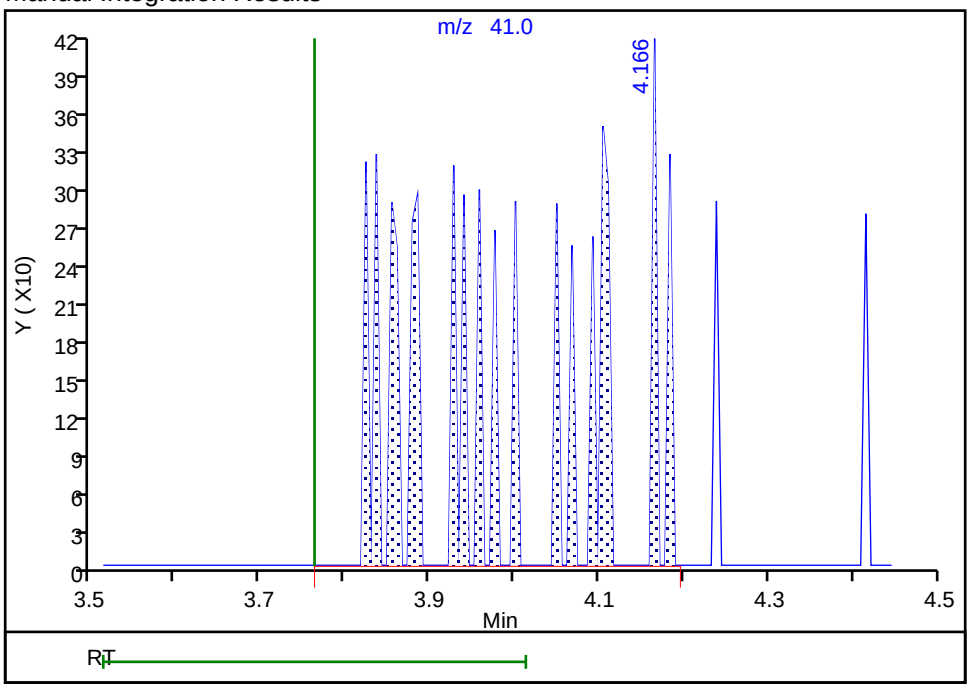
Processing Integration Results

RT: 3.84
Area: 752
Amount: 1.854002
Amount Units: ug/l



Manual Integration Results

RT: 4.17
Area: 1967
Amount: 1.144232
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:32:32 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

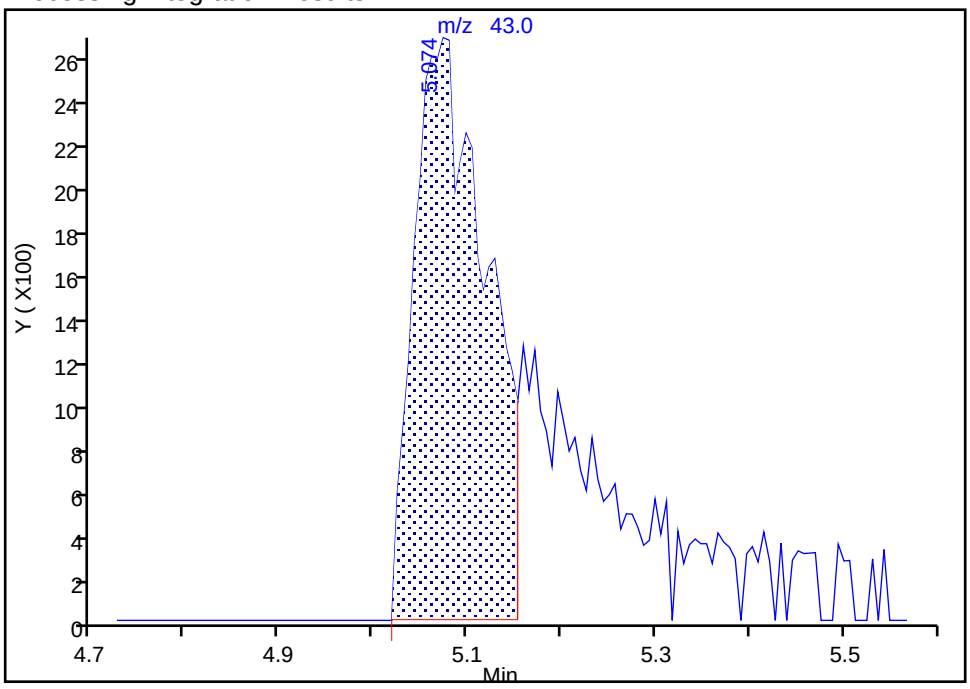
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X03.D
Injection Date: 17-Jul-2024 14:24:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

35 Vinyl acetate, CAS: 108-05-4

Signal: 1

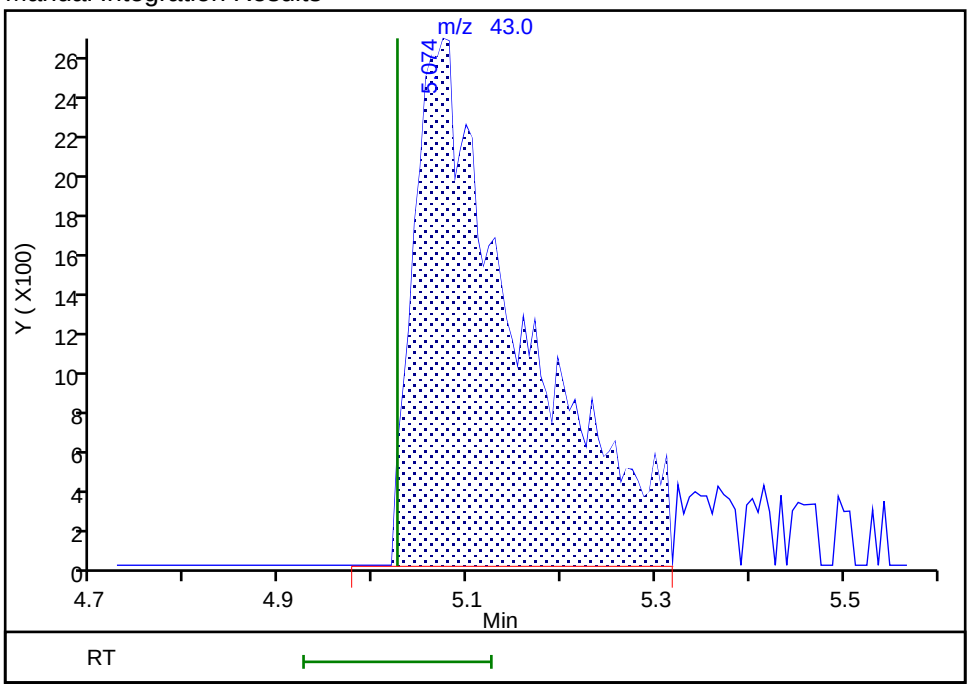
Processing Integration Results

RT: 5.07
Area: 13978
Amount: 0.458755
Amount Units: ug/l



Manual Integration Results

RT: 5.07
Area: 20476
Amount: 0.421557
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:32:39 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

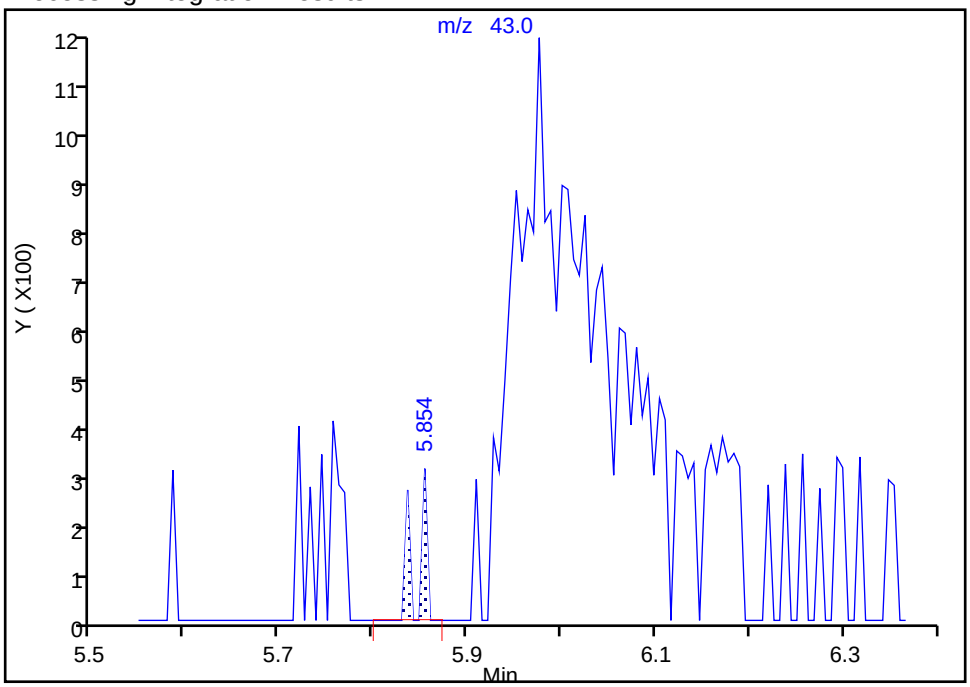
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X03.D				
Injection Date:	17-Jul-2024 14:24:30	Instrument ID:	19094		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Ethyl acetate, CAS: 141-78-6

Signal: 1

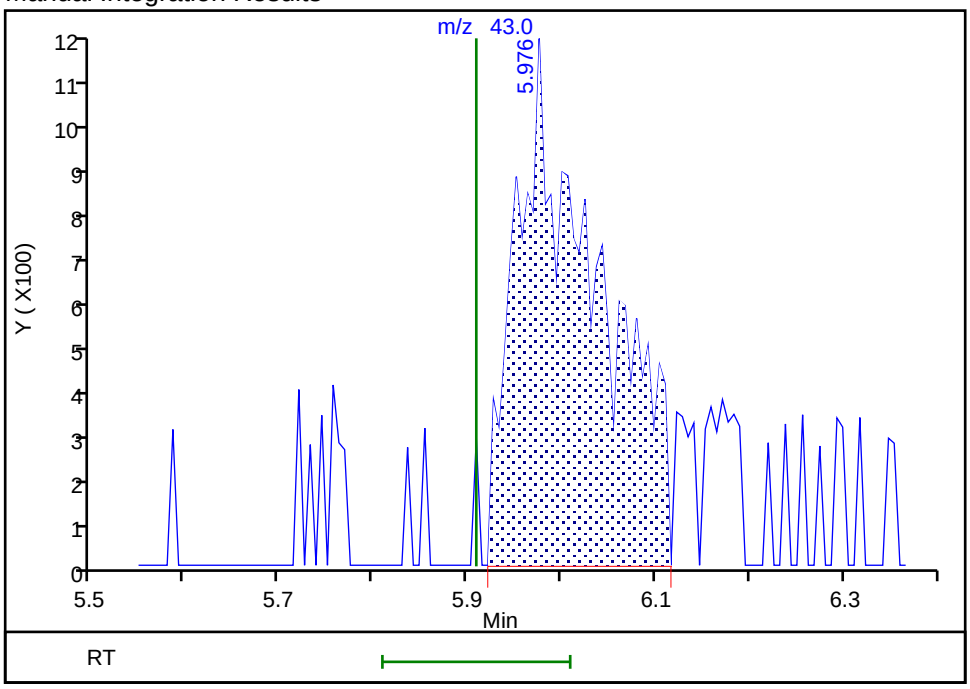
Processing Integration Results

RT: 5.85
Area: 203
Amount: 0.014007
Amount Units: ug/l



Manual Integration Results

RT: 5.98
Area: 6912
Amount: 0.380524
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:32:45 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X04.D
Lims ID: IC std3 1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 17-Jul-2024 14:44:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0119602-005
Misc. Info.: sm 1
Operator ID: knk41612 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub52

Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jul-2024 22:30:33 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1666

First Level Reviewer: UKEK Date: 18-Jul-2024 22:30:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.843	1.849	-0.006	92	27141	1.00	0.8926	
3 Chlorodifluoromethane	51	1.892	1.898	-0.006	97	65027	1.00	0.9401	
4 Dimethyl ether	45	1.941	1.947	-0.007	98	73952	1.00	1.03	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.233	2.239	-0.006	33	55672	1.00	0.9687	
25 Acetonitrile	41	3.824	3.763	0.061	21	7976	5.00	4.61	M
* 28 t-Butyl alcohol-d10 (IS)	65	3.965	3.970	-0.006	30	97332	50.0	50.0	
35 Vinyl acetate	43	5.062	5.025	0.037	97	52844	1.00	1.08	M
45 Ethyl acetate	43	5.928	5.909	0.019	96	17776	1.00	0.9732	
61 Isopropyl acetate	43	7.159	7.147	0.012	98	53601	1.00	1.09	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2093079	10.0	10.0	
75 n-Propyl acetate	61	8.506	8.470	0.036	99	9071	1.00	1.10	M
78 2-Chloroethyl vinyl ether	63	9.037	9.018	0.019	90	10166	1.00	0.8764	
110 n-Butyl acetate	43	10.457	10.439	0.018	97	31644	1.00	0.8691	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1585581	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.951	11.945	0.006	27	18496	2.00	1.70	
125 Cyclohexanone	55	11.975	11.969	0.006	89	19332	50.0	48.2	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	866572	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

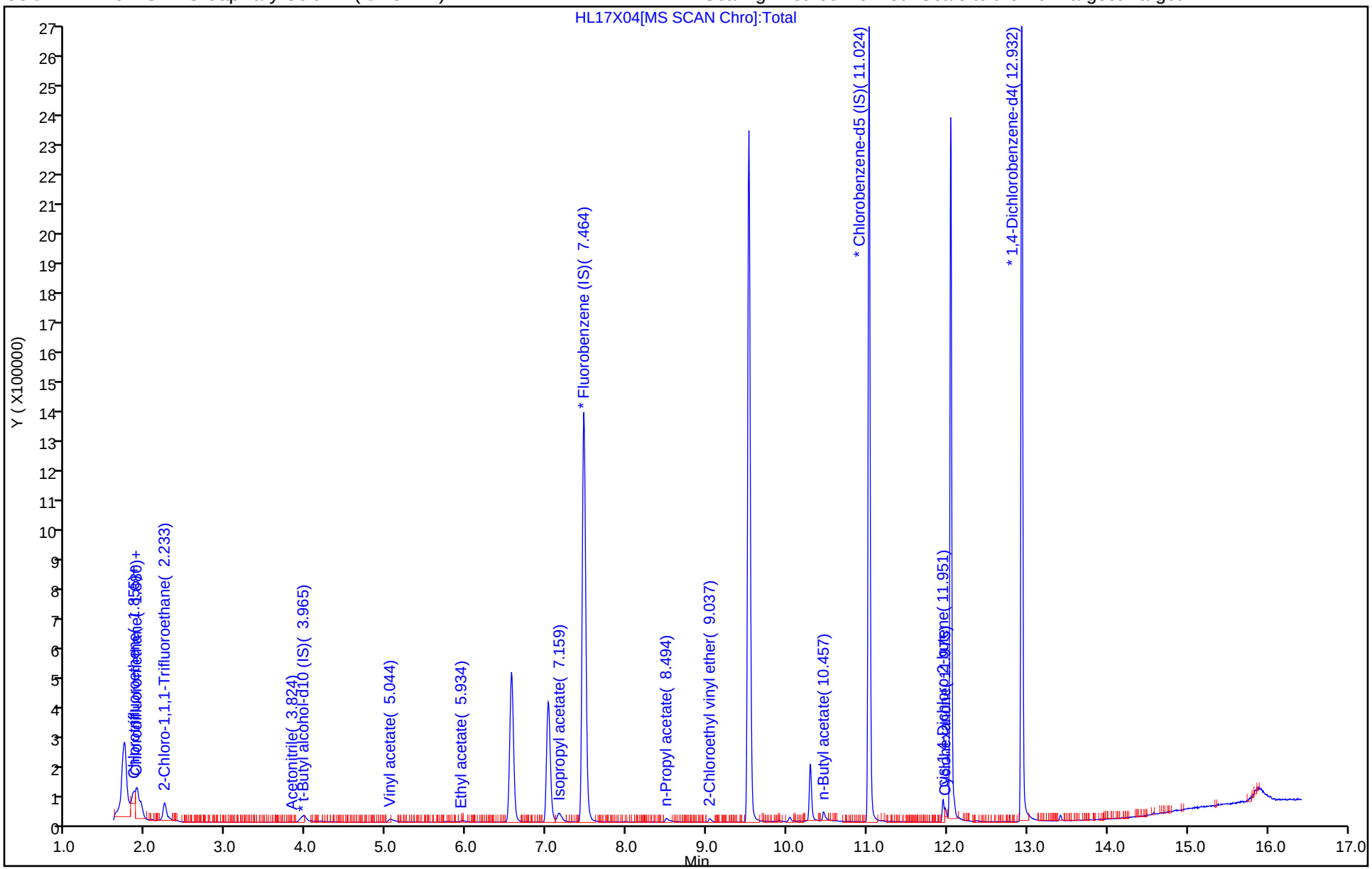
MSV_CCV_V5ACE_00038	Amount Added:	1.00	Units: uL
MSV_CCV_CYC_00009	Amount Added:	8.00	Units: uL
MSV_V_SMRV4_00072	Amount Added:	5.00	Units: uL
MSV_DME_00056	Amount Added:	1.00	Units: uL
MSV_LLcentISO_00008	Amount Added:	5.00	Units: uL

Report Date: 18-Jul-2024 22:30:34 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X04.D				
Injection Date:	17-Jul-2024 14:44:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	IC std3 1			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSV_19094_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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

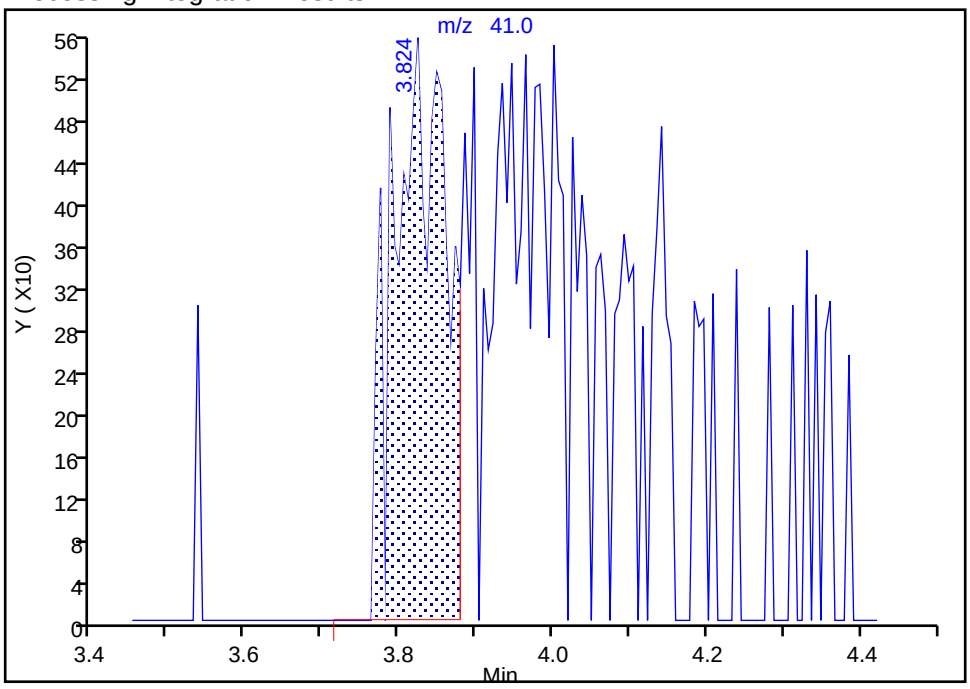
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X04.D				
Injection Date:	17-Jul-2024 14:44:30	Instrument ID:	19094		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Acetonitrile, CAS: 75-05-8

Signal: 1

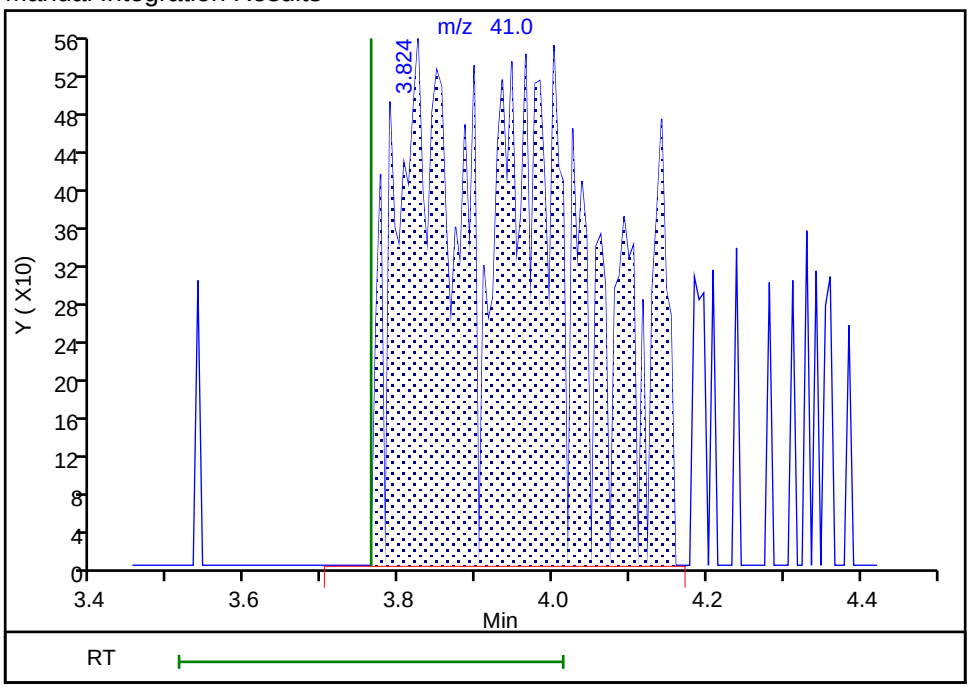
RT: 3.82
Area: 2623
Amount: 3.741579
Amount Units: ug/l

Processing Integration Results



RT: 3.82
Area: 7976
Amount: 4.614136
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:31:19 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

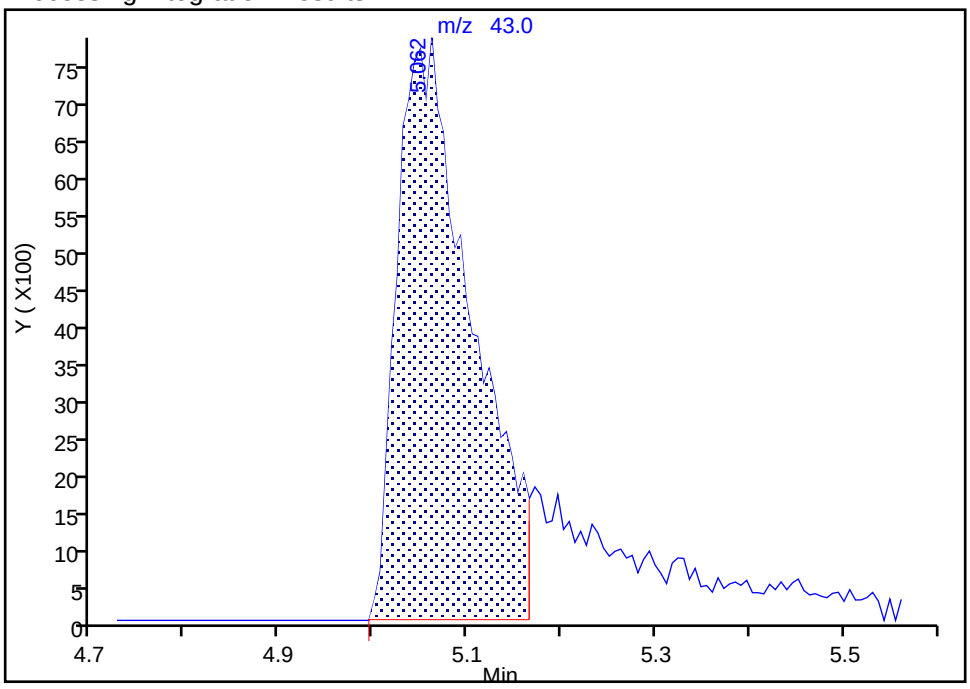
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X04.D
Injection Date: 17-Jul-2024 14:44:30 Instrument ID: 19094
Lims ID: IC std3 1
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

35 Vinyl acetate, CAS: 108-05-4

Signal: 1

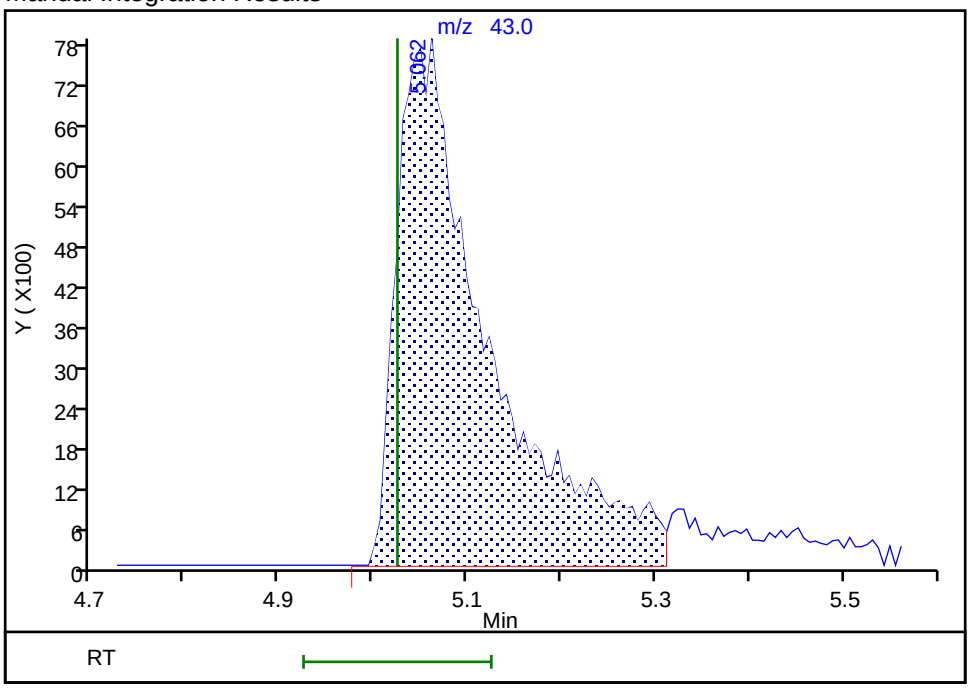
Processing Integration Results

RT: 5.06
Area: 43379
Amount: 0.929027
Amount Units: ug/l



Manual Integration Results

RT: 5.06
Area: 52844
Amount: 1.081938
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:34:14 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X05.D
Lims ID: IC std4 2
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 17-Jul-2024 15:05:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0119602-006
Misc. Info.: IC std4 2
Operator ID: knk41612 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub52

Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jul-2024 22:30:39 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1666

First Level Reviewer: DVW2 Date: 18-Jul-2024 08:30:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.837	1.849	-0.012	93	51250	2.00	1.69	
3 Chlorodifluoromethane	51	1.886	1.898	-0.012	97	121242	2.00	1.76	
4 Dimethyl ether	45	1.934	1.947	-0.013	99	133245	2.00	1.86	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.233	2.239	-0.006	34	106837	2.00	1.86	
25 Acetonitrile	41	3.830	3.763	0.067	21	17734	10.0	10.3	M
* 28 t-Butyl alcohol-d10 (IS)	65	3.977	3.970	0.007	29	103916	50.0	50.0	
35 Vinyl acetate	43	5.043	5.025	0.018	97	93238	2.00	1.91	M
45 Ethyl acetate	43	5.927	5.909	0.018	99	33957	2.00	1.86	M
61 Isopropyl acetate	43	7.153	7.147	0.006	98	95106	2.00	1.94	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2087244	10.0	10.0	
75 n-Propyl acetate	61	8.488	8.470	0.018	98	15842	2.00	1.75	
78 2-Chloroethyl vinyl ether	63	9.031	9.018	0.012	92	22776	2.00	1.97	
110 n-Butyl acetate	43	10.451	10.439	0.012	98	67656	2.00	1.72	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1583767	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.945	11.945	0.000	27	43976	4.00	4.04	
125 Cyclohexanone	55	11.975	11.969	0.006	95	46510	100.0	96.3	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	872323	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

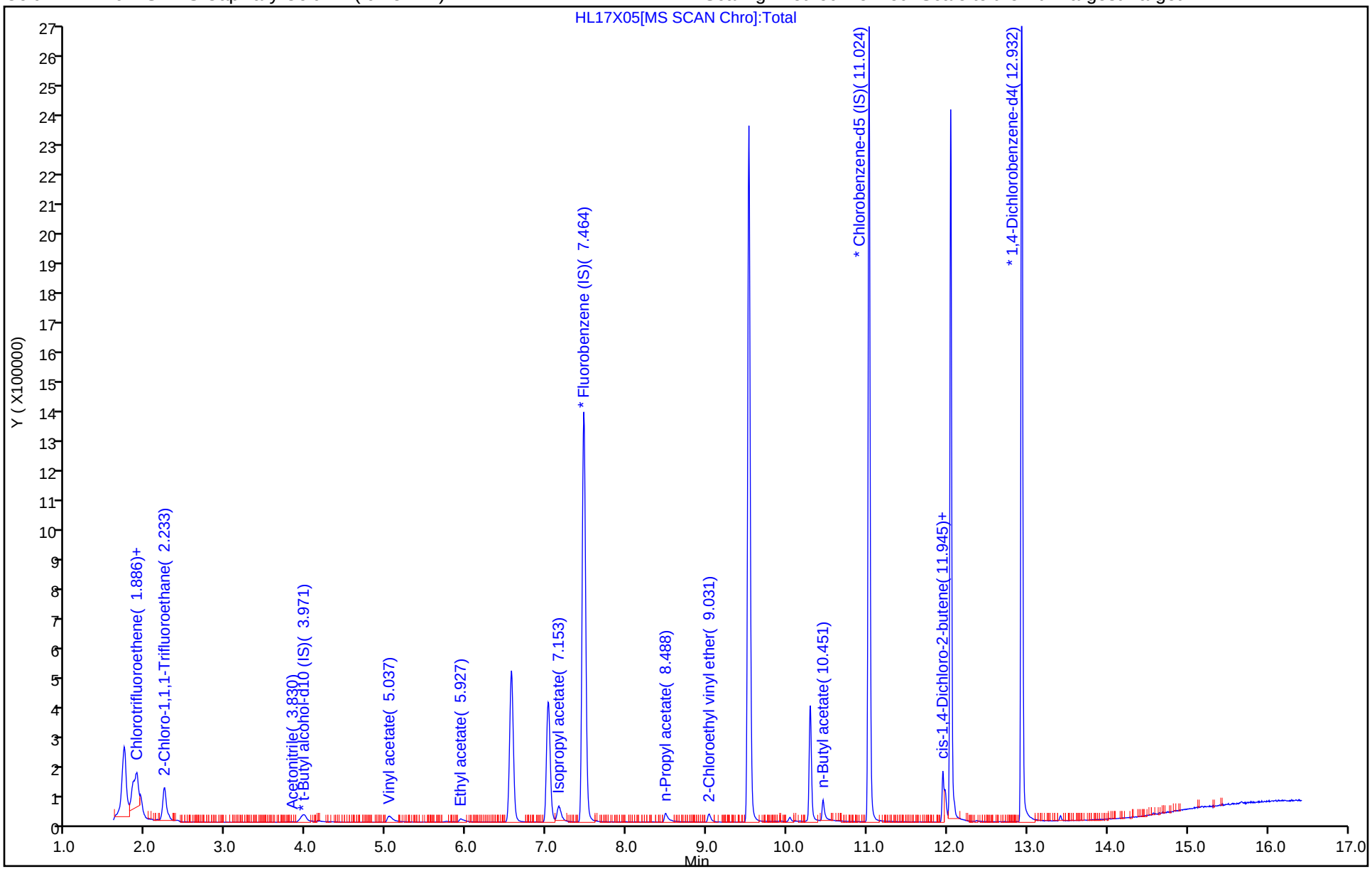
MSV_CCV_V5ACE_00038	Amount Added:	1.00	Units: uL
MSV_CCV_CYC_00009	Amount Added:	8.00	Units: uL
MSV_V_SMRV4_00072	Amount Added:	5.00	Units: uL
MSV_DME_00056	Amount Added:	1.00	Units: uL
MSV_LLcentISO_00008	Amount Added:	5.00	Units: uL

Report Date: 18-Jul-2024 22:30:40 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X05.D				
Injection Date:	17-Jul-2024 15:05:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	IC std4 2			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSV_19094_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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

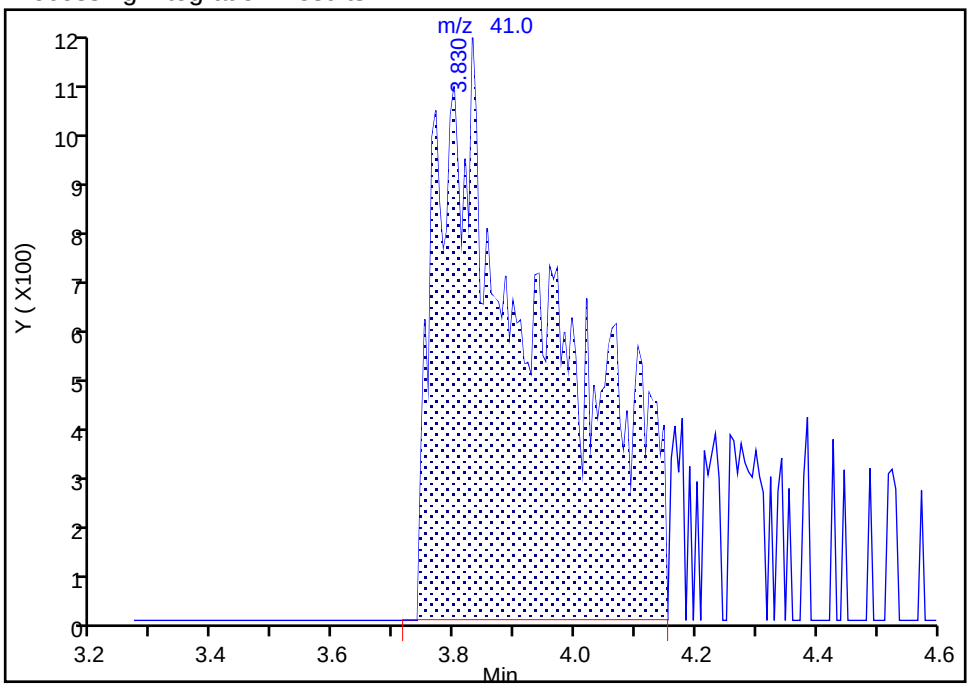
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X05.D				
Injection Date:	17-Jul-2024 15:05:30	Instrument ID:	19094		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Acetonitrile, CAS: 75-05-8

Signal: 1

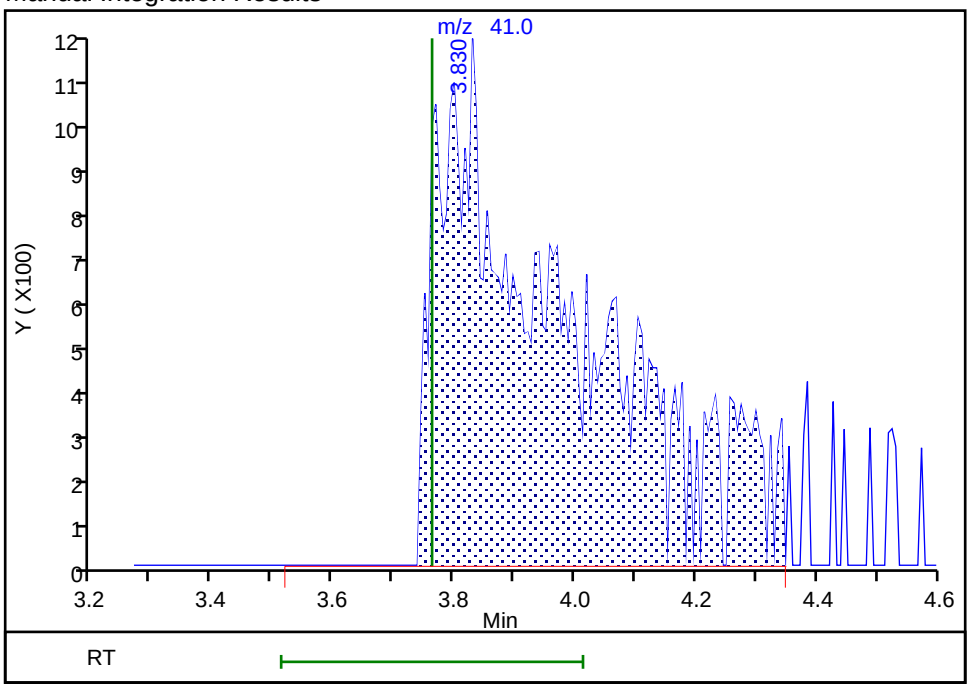
Processing Integration Results

RT: 3.83
Area: 14890
Amount: 9.452790
Amount Units: ug/l



Manual Integration Results

RT: 3.83
Area: 17734
Amount: 10.287843
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:34:29 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

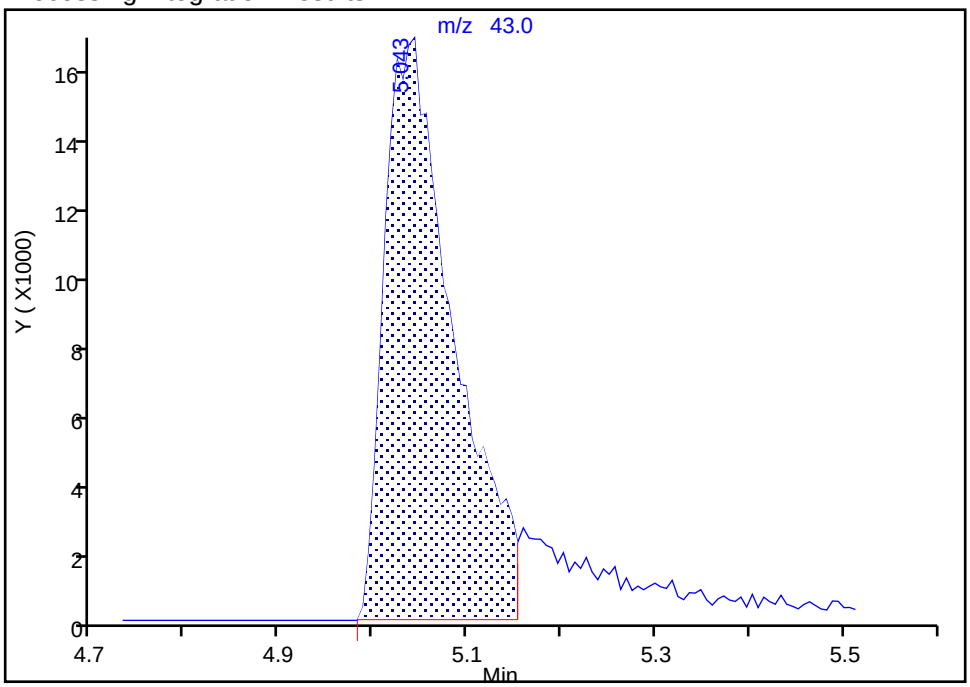
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X05.D
Injection Date: 17-Jul-2024 15:05:30 Instrument ID: 19094
Lims ID: IC std4 2
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

35 Vinyl acetate, CAS: 108-05-4

Signal: 1

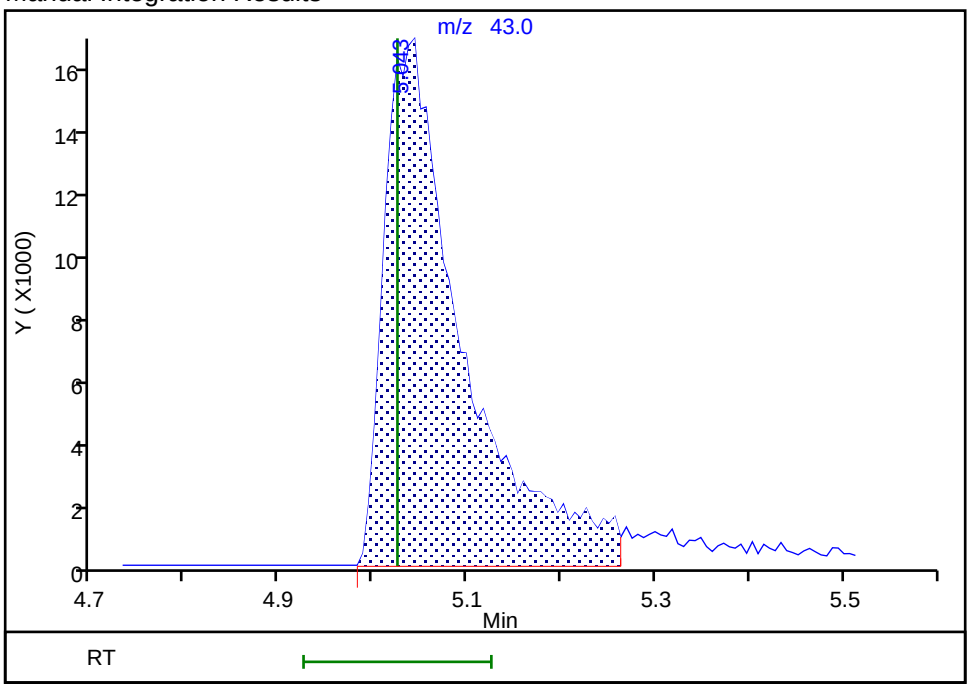
Processing Integration Results

RT: 5.04
Area: 82113
Amount: 1.713859
Amount Units: ug/l



Manual Integration Results

RT: 5.04
Area: 93238
Amount: 1.914310
Amount Units: ug/l



Reviewer: UKEK, 18-Jul-2024 21:47:44 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

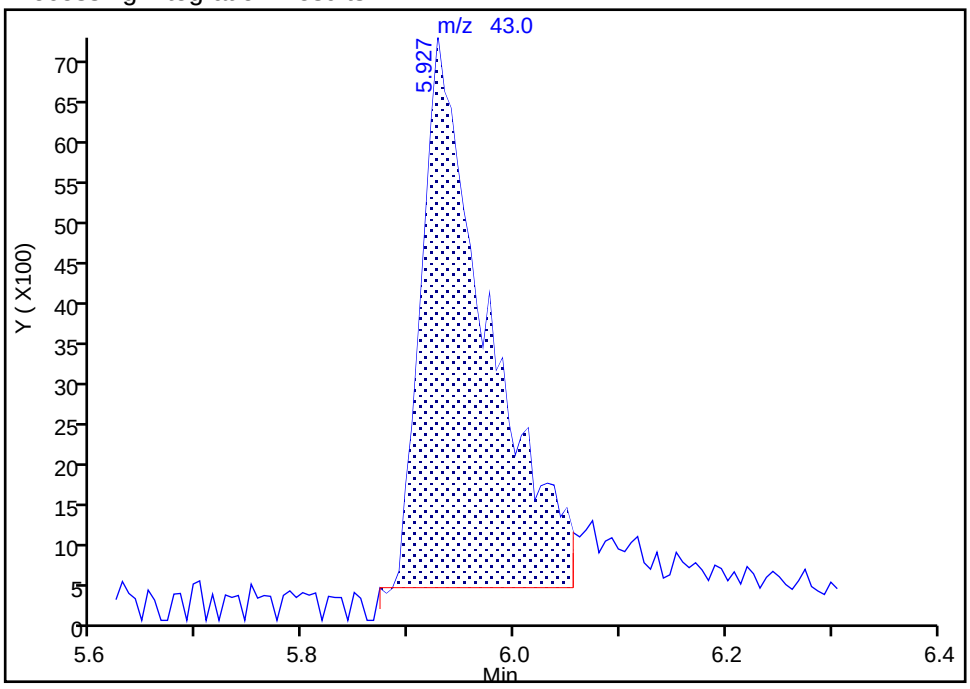
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X05.D				
Injection Date:	17-Jul-2024 15:05:30	Instrument ID:	19094		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Ethyl acetate, CAS: 141-78-6

Signal: 1

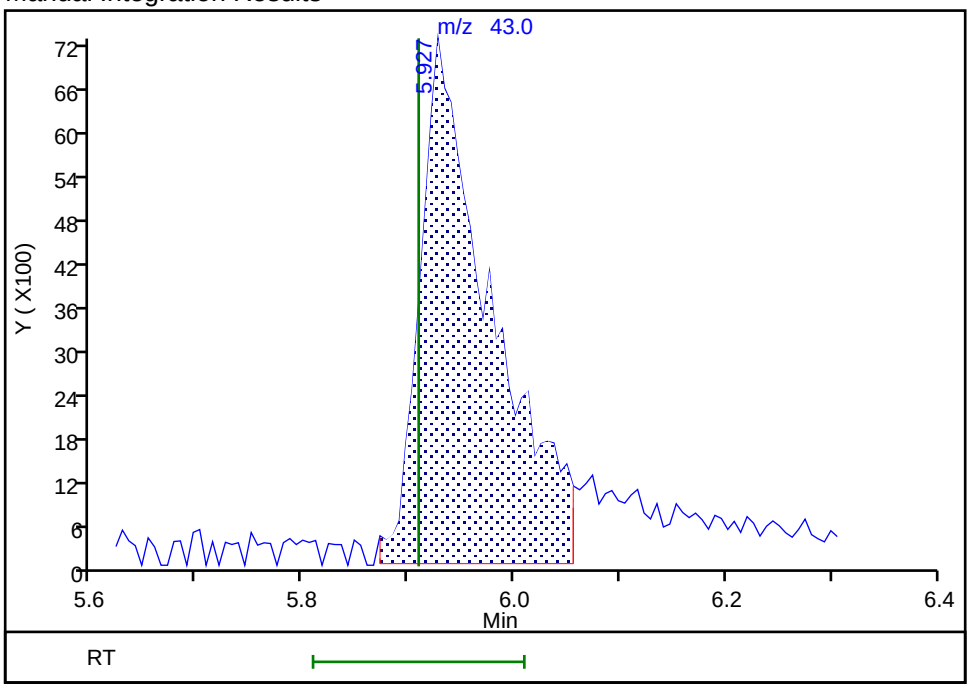
Processing Integration Results

RT: 5.93
Area: 29490
Amount: 1.633304
Amount Units: ug/l



Manual Integration Results

RT: 5.93
Area: 33957
Amount: 1.864301
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:34:56 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X06.D
Lims ID: IC std5 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 17-Jul-2024 15:26:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0119602-007
Misc. Info.: IC std5 5
Operator ID: knk41612 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub52

Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jul-2024 22:30:41 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1666

First Level Reviewer: DVW2 Date: 18-Jul-2024 08:30:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.837	1.849	-0.012	93	167319	5.00	5.45	
3 Chlorodifluoromethane	51	1.892	1.898	-0.006	97	364311	5.00	5.22	
4 Dimethyl ether	45	1.934	1.947	-0.013	99	323925	5.00	4.46	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.233	2.239	-0.006	34	305832	5.00	5.27	
25 Acetonitrile	41	3.763	3.763	0.000	95	43052	25.0	24.7	
* 28 t-Butyl alcohol-d10 (IS)	65	3.964	3.970	-0.006	27	97186	50.0	50.0	
35 Vinyl acetate	43	5.025	5.025	0.000	97	256035	5.00	5.19	
45 Ethyl acetate	43	5.909	5.909	0.000	99	95707	5.00	5.19	
61 Isopropyl acetate	43	7.153	7.147	0.006	98	252084	5.00	5.08	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2113852	10.0	10.0	
75 n-Propyl acetate	61	8.476	8.470	0.006	98	45707	5.00	4.59	
78 2-Chloroethyl vinyl ether	63	9.018	9.018	0.000	92	61749	5.00	5.27	
110 n-Butyl acetate	43	10.445	10.439	0.006	98	202315	5.00	4.84	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1601699	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.944	11.945	-0.001	27	118698	10.0	10.8	
125 Cyclohexanone	55	11.975	11.969	0.006	90	114454	250.0	237.3	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	879598	10.0	10.0	

QC Flag Legend
Processing Flags

Reagents:

MSV_CCV_V5ACE_00038	Amount Added:	1.00	Units: uL
MSV_CCV_CYC_00009	Amount Added:	8.00	Units: uL
MSV_V_SMRV4_00072	Amount Added:	5.00	Units: uL
MSV_DME_00056	Amount Added:	1.00	Units: uL
MSV_LLcentISO_00008	Amount Added:	5.00	Units: uL

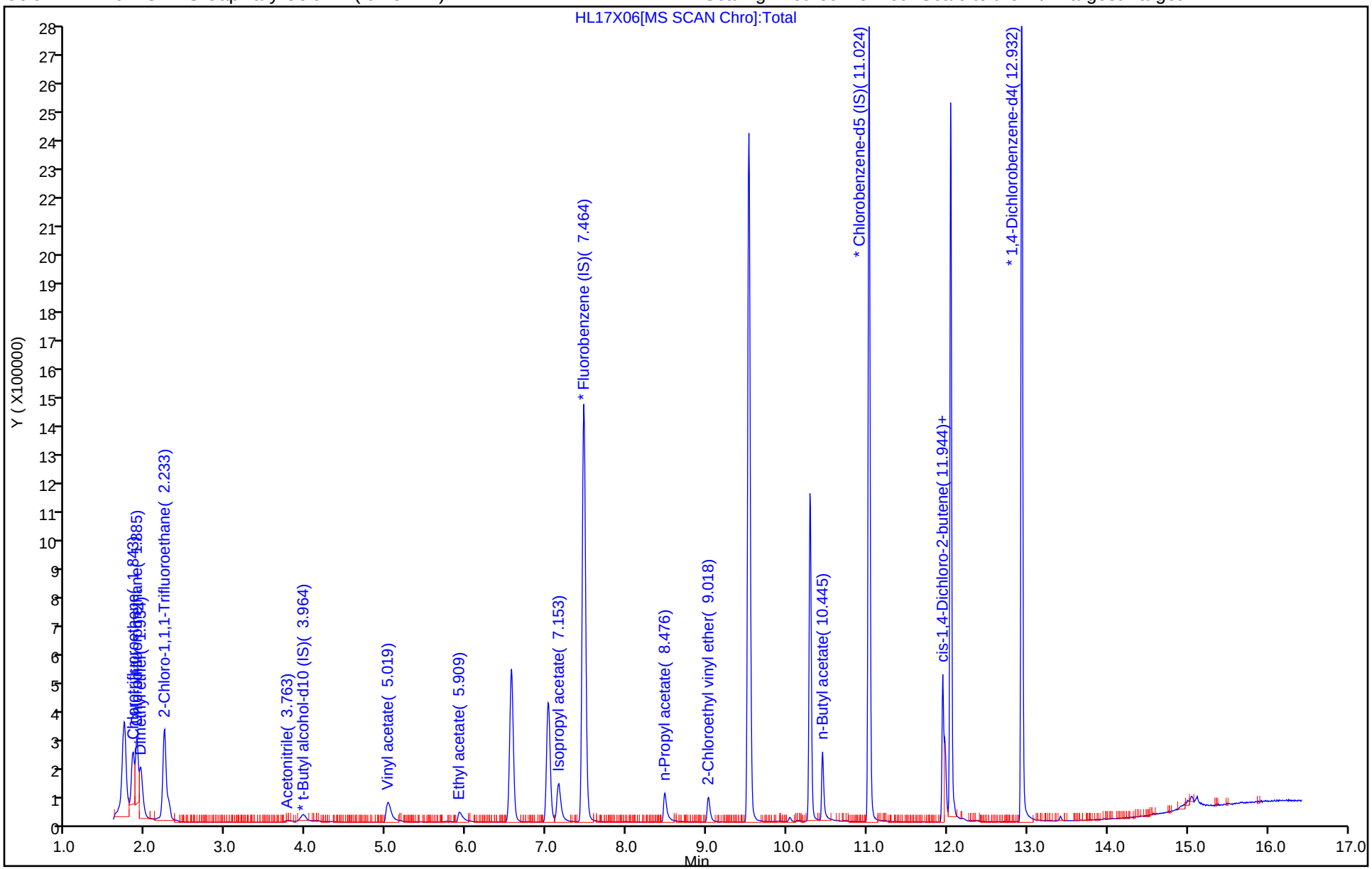
Report Date: 18-Jul-2024 22:30:42 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X06.D

Injection Date:	17-Jul-2024 15:26:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	IC std5 5			Worklist Smp#:	7
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_19094_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\19094\20240717-119602.b\HL17X07.D
Lims ID: IC std6 10
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 17-Jul-2024 15:46:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0119602-008
Misc. Info.: IC std6 10
Operator ID: knk41612 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub52

Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jul-2024 22:30:43 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1666

First Level Reviewer: DVW2 Date: 18-Jul-2024 08:30:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.849	1.849	0.000	93	328187	10.0	10.8	M
3 Chlorodifluoromethane	51	1.898	1.898	0.000	97	683305	10.0	9.86	
4 Dimethyl ether	45	1.947	1.947	0.000	98	672649	10.0	9.32	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.239	2.239	0.000	39	601449	10.0	10.4	
25 Acetonitrile	41	3.763	3.763	0.000	100	95496	50.0	55.1	
* 28 t-Butyl alcohol-d10 (IS)	65	3.983	3.983	0.000	27	100864	50.0	50.0	
35 Vinyl acetate	43	5.025	5.025	0.000	97	576715	10.0	11.8	
45 Ethyl acetate	43	5.909	5.909	0.000	99	215122	10.0	11.8	
61 Isopropyl acetate	43	7.147	7.147	0.000	98	546788	10.0	11.1	
* 64 Fluorobenzene (IS)	96	7.470	7.470	0.000	99	2097857	10.0	10.0	
75 n-Propyl acetate	61	8.470	8.470	0.000	98	110255	10.0	10.8	
78 2-Chloroethyl vinyl ether	63	9.018	9.018	0.000	92	130915	10.0	11.3	
110 n-Butyl acetate	43	10.439	10.439	0.000	98	460572	10.0	11.0	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1580523	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.945	11.945	0.000	27	258174	20.0	23.8	a
125 Cyclohexanone	55	11.969	11.969	0.000	92	263745	500.0	514.9	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	873599	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00038	Amount Added:	1.00	Units: uL
MSV_CCV_CYC_00009	Amount Added:	8.00	Units: uL
MSV_V_SMRV4_00072	Amount Added:	5.00	Units: uL
MSV_DME_00056	Amount Added:	1.00	Units: uL
MSV_LLcentISO_00008	Amount Added:	5.00	Units: uL

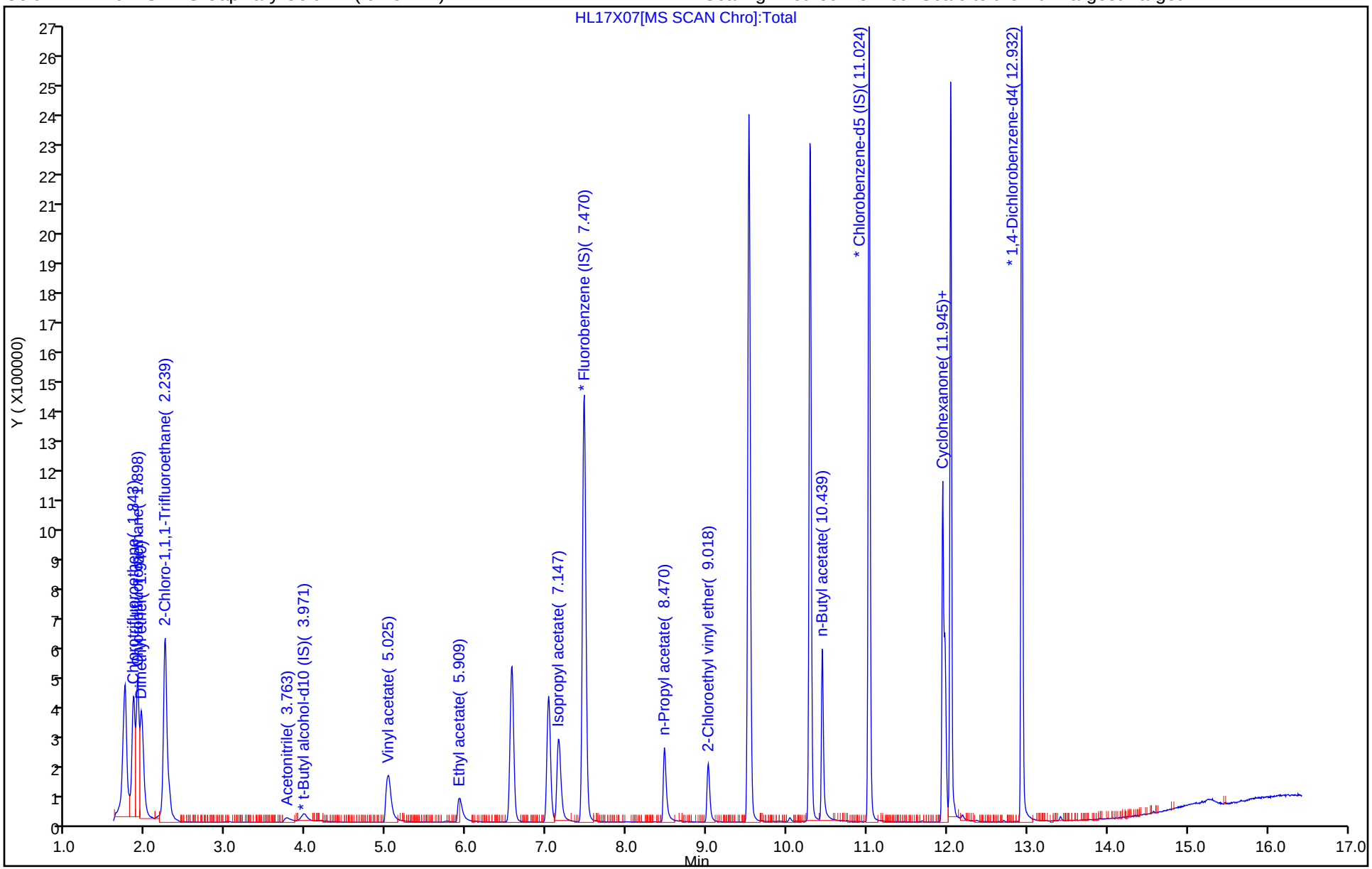
Report Date: 18-Jul-2024 22:30:43 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X07.D

Injection Date:	17-Jul-2024 15:46:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	IC std6 10			Worklist Smp#:	8
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSV_19094_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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

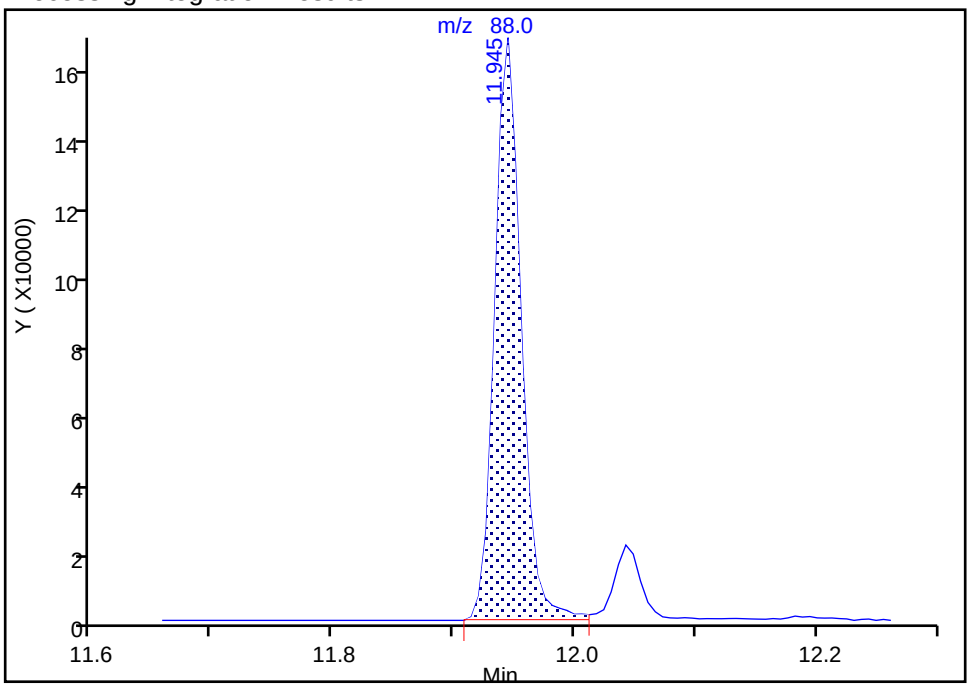
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X07.D
Injection Date: 17-Jul-2024 15:46:30 Instrument ID: 19094
Lims ID: IC std6 10
Client ID:
Operator ID: knk41612 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

124 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

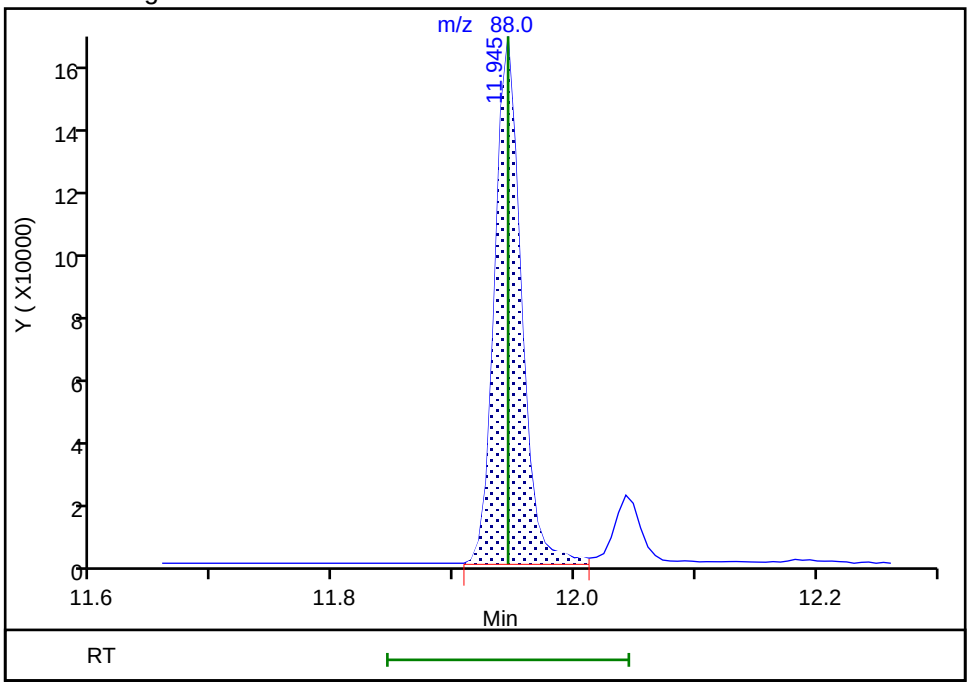
Processing Integration Results

RT: 11.94
Area: 258174
Amount: 23.769766
Amount Units: ug/l



Manual Integration Results

RT: 11.94
Area: 258174
Amount: 23.769766
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:30:28 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X08.D
Lims ID: IC std7 25
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 17-Jul-2024 16:07:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0119602-009
Misc. Info.: IC std7 25
Operator ID: knk41612 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub52

Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jul-2024 22:30:46 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1666

First Level Reviewer: DVW2 Date: 18-Jul-2024 08:33:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.843	1.849	-0.006	93	856050	25.0	27.7	
3 Chlorodifluoromethane	51	1.898	1.898	0.000	97	1753716	25.0	24.9	
4 Dimethyl ether	45	1.940	1.947	-0.007	99	1610639	25.0	22.0	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.239	2.239	0.000	34	1486511	25.0	25.4	
25 Acetonitrile	41	3.733	3.763	-0.030	100	211065	125.0	119.9	
* 28 t-Butyl alcohol-d10 (IS)	65	3.964	3.983	-0.019	27	98456	50.0	50.0	
35 Vinyl acetate	43	5.013	5.025	-0.012	97	1414913	25.0	28.5	
45 Ethyl acetate	43	5.903	5.909	-0.006	99	521003	25.0	28.0	
61 Isopropyl acetate	43	7.147	7.147	0.000	98	1237854	25.0	24.7	
* 64 Fluorobenzene (IS)	96	7.470	7.470	0.000	99	2130682	10.0	10.0	
75 n-Propyl acetate	61	8.463	8.470	-0.007	98	258682	25.0	24.8	
78 2-Chloroethyl vinyl ether	63	9.012	9.018	-0.006	91	350534	25.0	29.7	
110 n-Butyl acetate	43	10.439	10.439	0.000	98	1060796	25.0	24.7	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1615587	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.945	11.945	-0.001	28	682170	50.0	61.4	
125 Cyclohexanone	55	11.969	11.969	0.000	93	630647	1250.1	1247.0	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	870606	10.0	10.0	

QC Flag Legend
Processing Flags

Reagents:

MSV_CCV_V5ACE_00038	Amount Added:	2.50	Units: uL
MSV_CCV_CYC_00009	Amount Added:	20.00	Units: uL
MSV_V_SMRV4_00072	Amount Added:	12.50	Units: uL
MSV_DME_00056	Amount Added:	2.50	Units: uL
MSV_LLcentISO_00008	Amount Added:	5.00	Units: uL

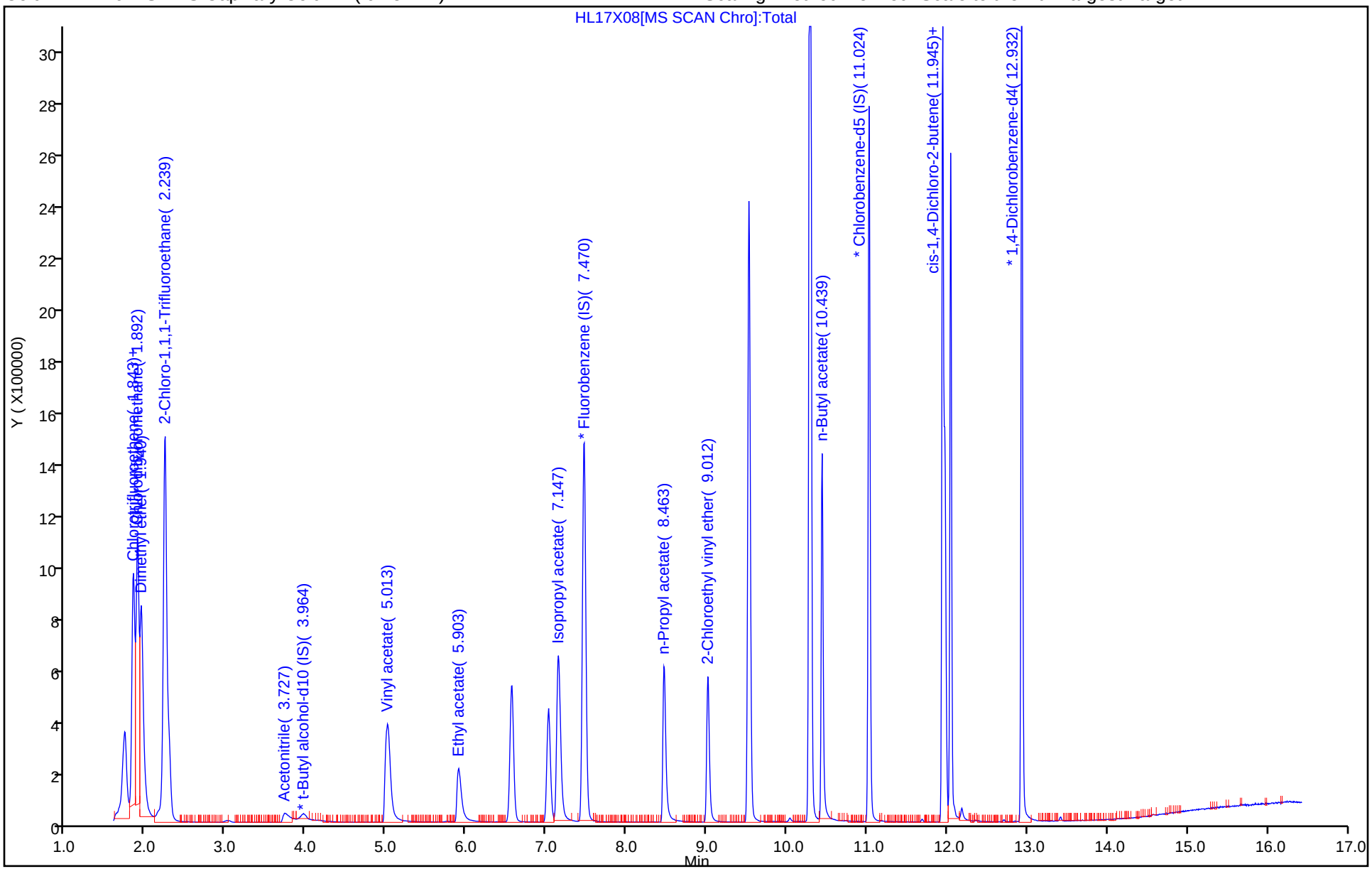
Report Date: 18-Jul-2024 22:30:47 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X08.D

Injection Date:	17-Jul-2024 16:07:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	IC std7 25			Worklist Smp#:	9
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSV_19094_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



Calibration / Chlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

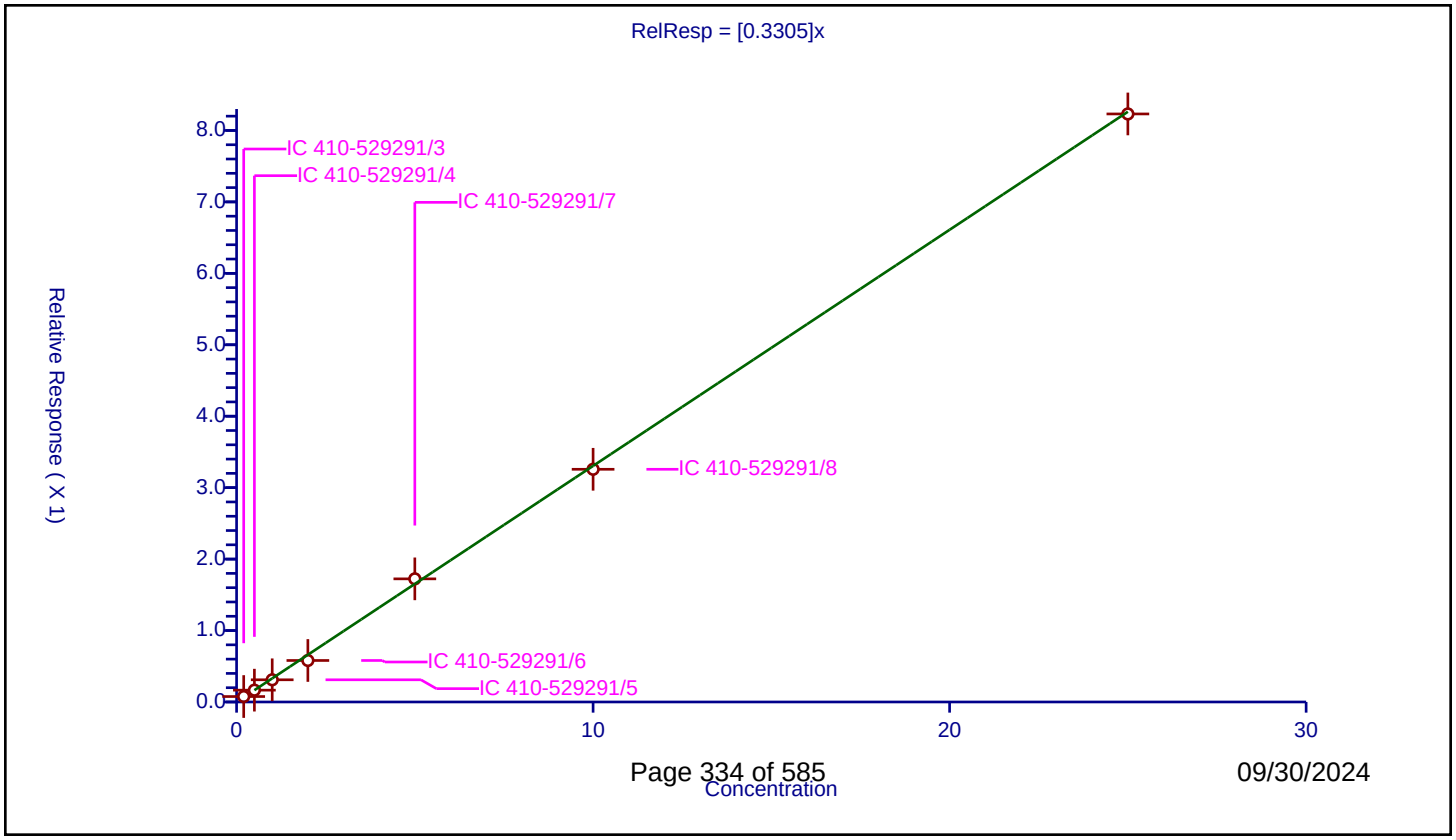
Curve Coefficients

Intercept:	0
Slope:	0.3305

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/3	0.2	0.076254	10.0	2057737.0	0.381268	Y
2	IC 410-529291/4	0.5	0.165624	10.0	2081523.0	0.331248	Y
3	IC 410-529291/5	1.0	0.310676	10.0	2093079.0	0.310676	Y
4	IC 410-529291/6	2.0	0.580871	10.0	2087244.0	0.290436	Y
5	IC 410-529291/7	5.0	1.723446	10.0	2113852.0	0.344689	Y
6	IC 410-529291/8	10.0	3.257157	10.0	2097857.0	0.325716	Y
7	IC 410-529291/9	25.0	8.230773	10.0	2130682.0	0.329231	Y



Calibration / Dimethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

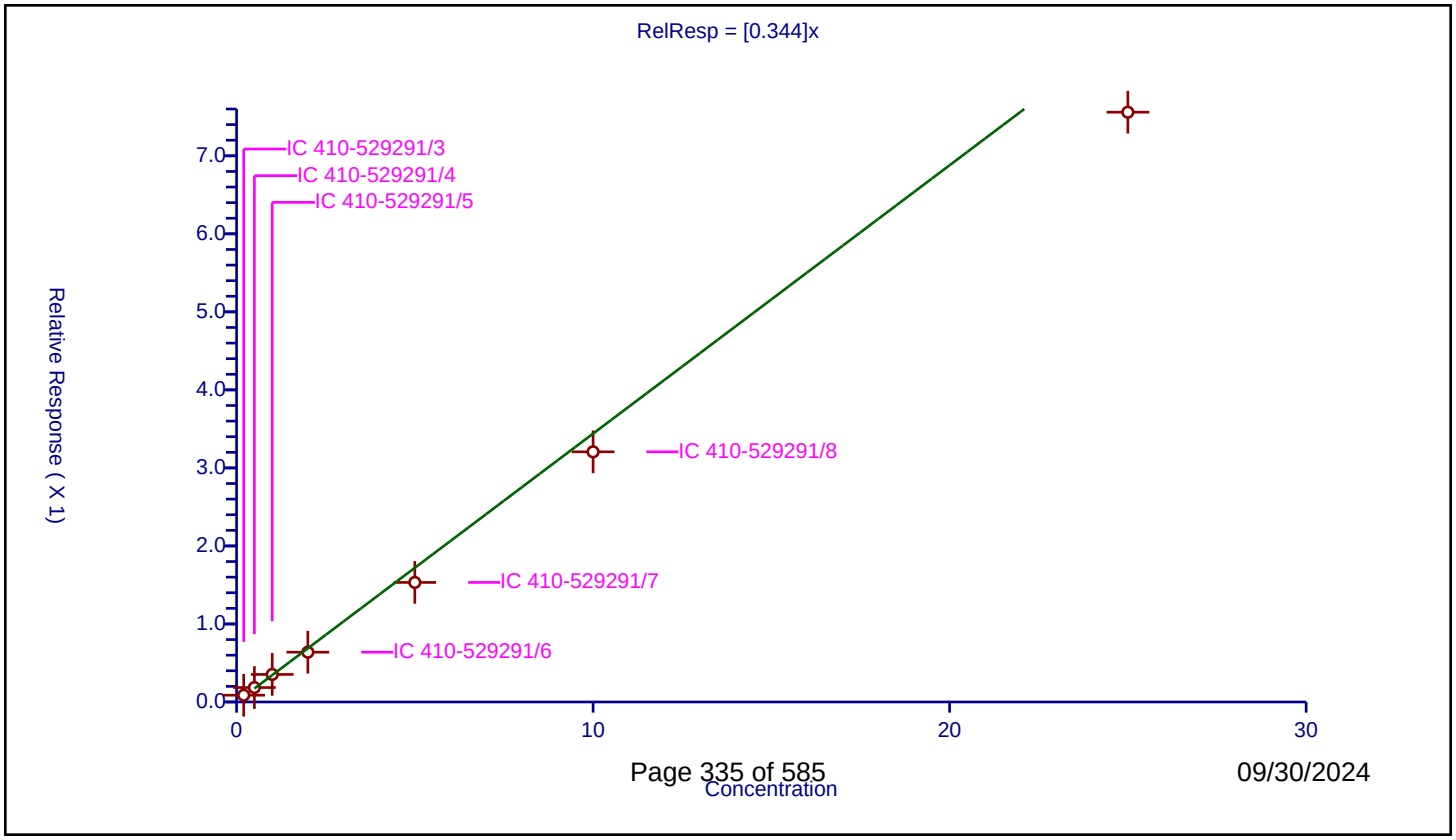
Curve Coefficients

Intercept:	0
Slope:	0.344

Error Coefficients

Relative Standard Deviation:	13.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/3	0.2	0.087105	10.0	2057737.0	0.435527	Y
2	IC 410-529291/4	0.5	0.185119	10.0	2081523.0	0.370239	Y
3	IC 410-529291/5	1.0	0.353317	10.0	2093079.0	0.353317	Y
4	IC 410-529291/6	2.0	0.638378	10.0	2087244.0	0.319189	Y
5	IC 410-529291/7	5.0	1.532392	10.0	2113852.0	0.306478	Y
6	IC 410-529291/8	10.0	3.206362	10.0	2097857.0	0.320636	Y
7	IC 410-529291/9	25.0	7.559265	10.0	2130682.0	0.302371	Y



Calibration / Acetonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

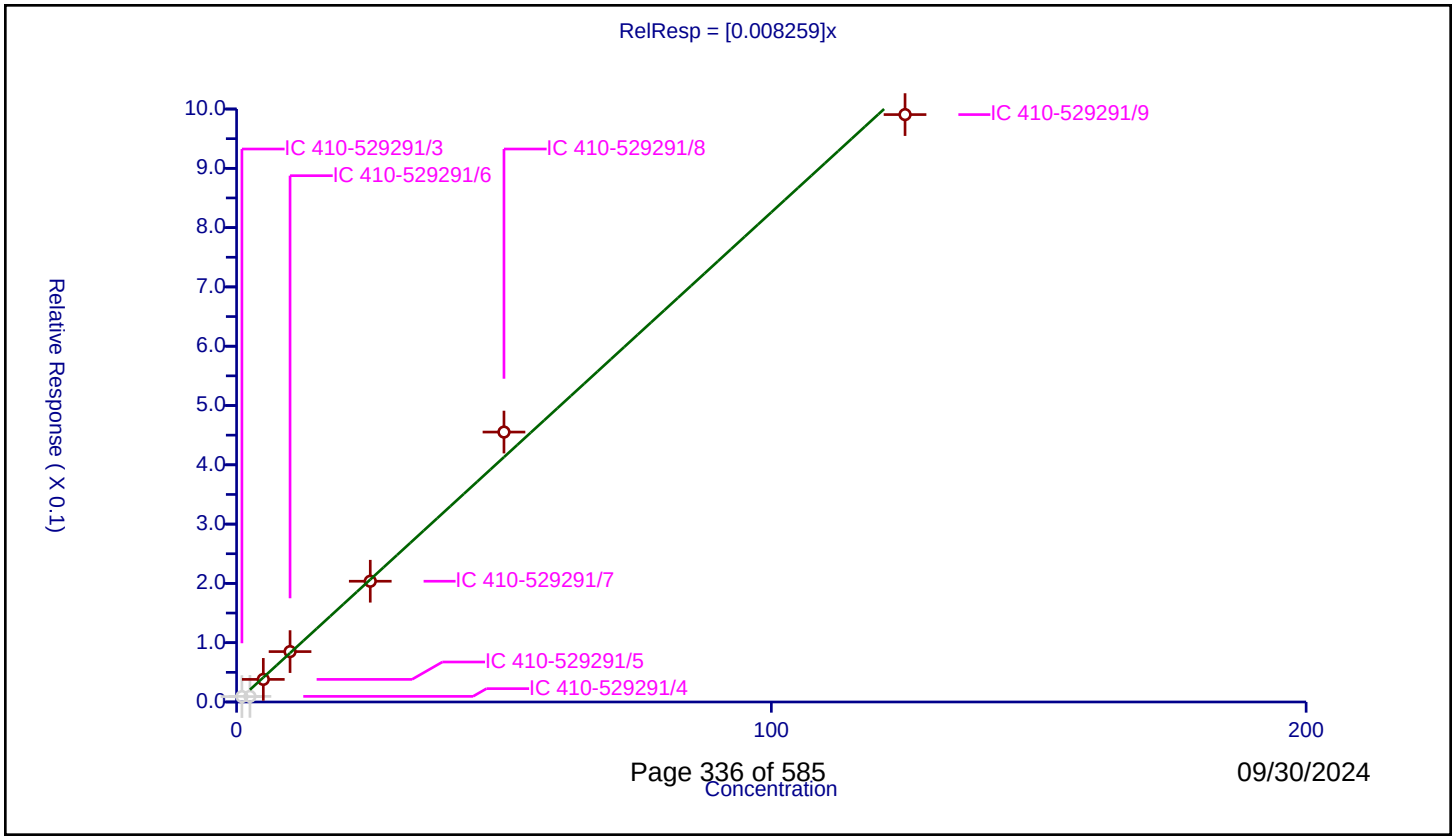
Curve Coefficients

Intercept:	0
Slope:	0.008259

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/3	1.0	0.009117	10.0	2057737.0	0.009117	N
2	IC 410-529291/4	2.5	0.00945	10.0	2081523.0	0.00378	N
3	IC 410-529291/5	5.0	0.038107	10.0	2093079.0	0.007621	Y
4	IC 410-529291/6	10.0	0.084964	10.0	2087244.0	0.008496	Y
5	IC 410-529291/7	25.0	0.203666	10.0	2113852.0	0.008147	Y
6	IC 410-529291/8	50.0	0.455207	10.0	2097857.0	0.009104	Y
7	IC 410-529291/9	125.0	0.990598	10.0	2130682.0	0.007925	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

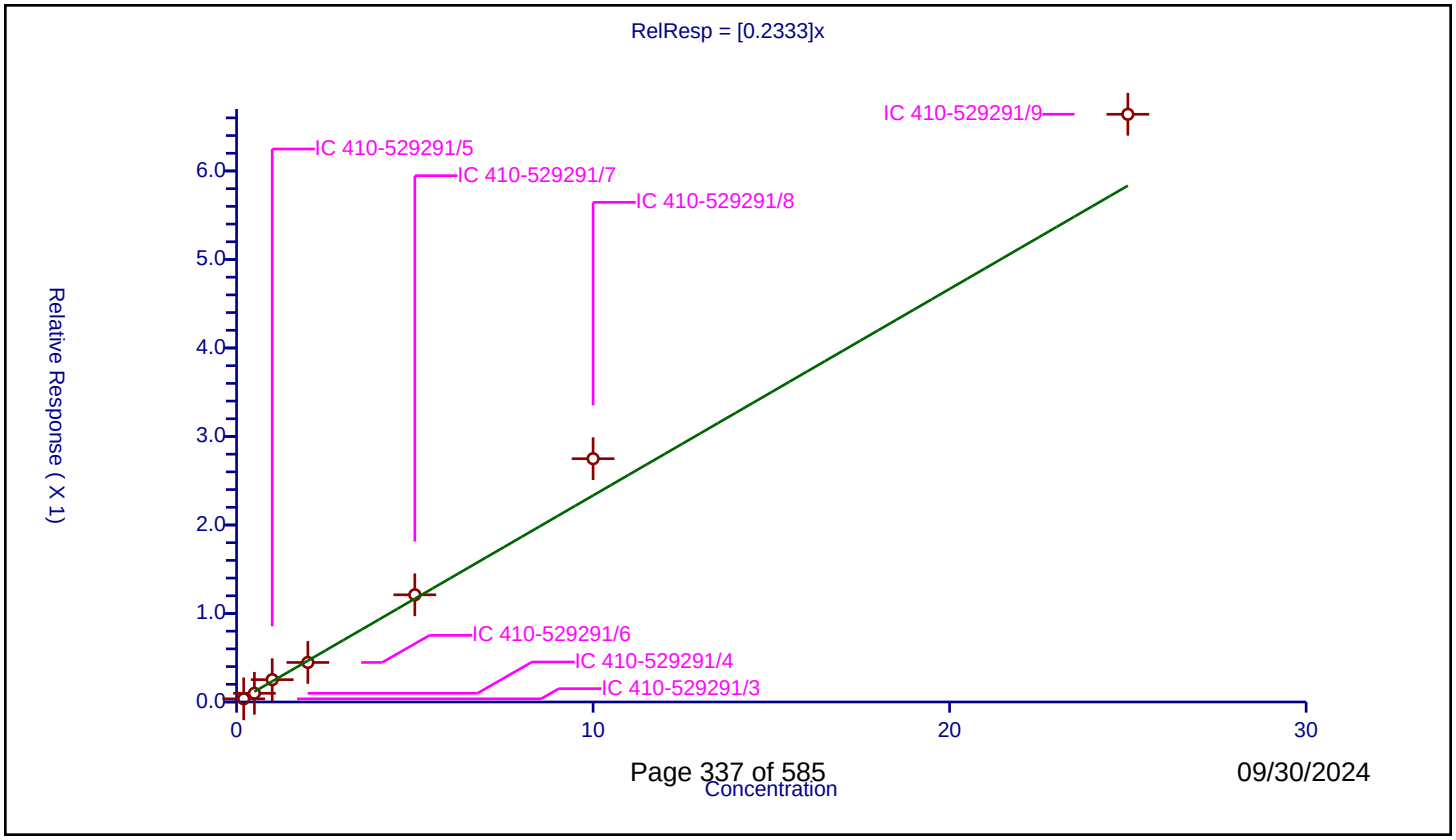
Curve Coefficients

Intercept:	0
Slope:	0.2333

Error Coefficients

Relative Standard Deviation:	15.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/3	0.2	0.035622	10.0	2057737.0	0.178108	Y
2	IC 410-529291/4	0.5	0.09837	10.0	2081523.0	0.196741	Y
3	IC 410-529291/5	1.0	0.25247	10.0	2093079.0	0.25247	Y
4	IC 410-529291/6	2.0	0.446704	10.0	2087244.0	0.223352	Y
5	IC 410-529291/7	5.0	1.211225	10.0	2113852.0	0.242245	Y
6	IC 410-529291/8	10.0	2.749067	10.0	2097857.0	0.274907	Y
7	IC 410-529291/9	25.0	6.640658	10.0	2130682.0	0.265626	Y



Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

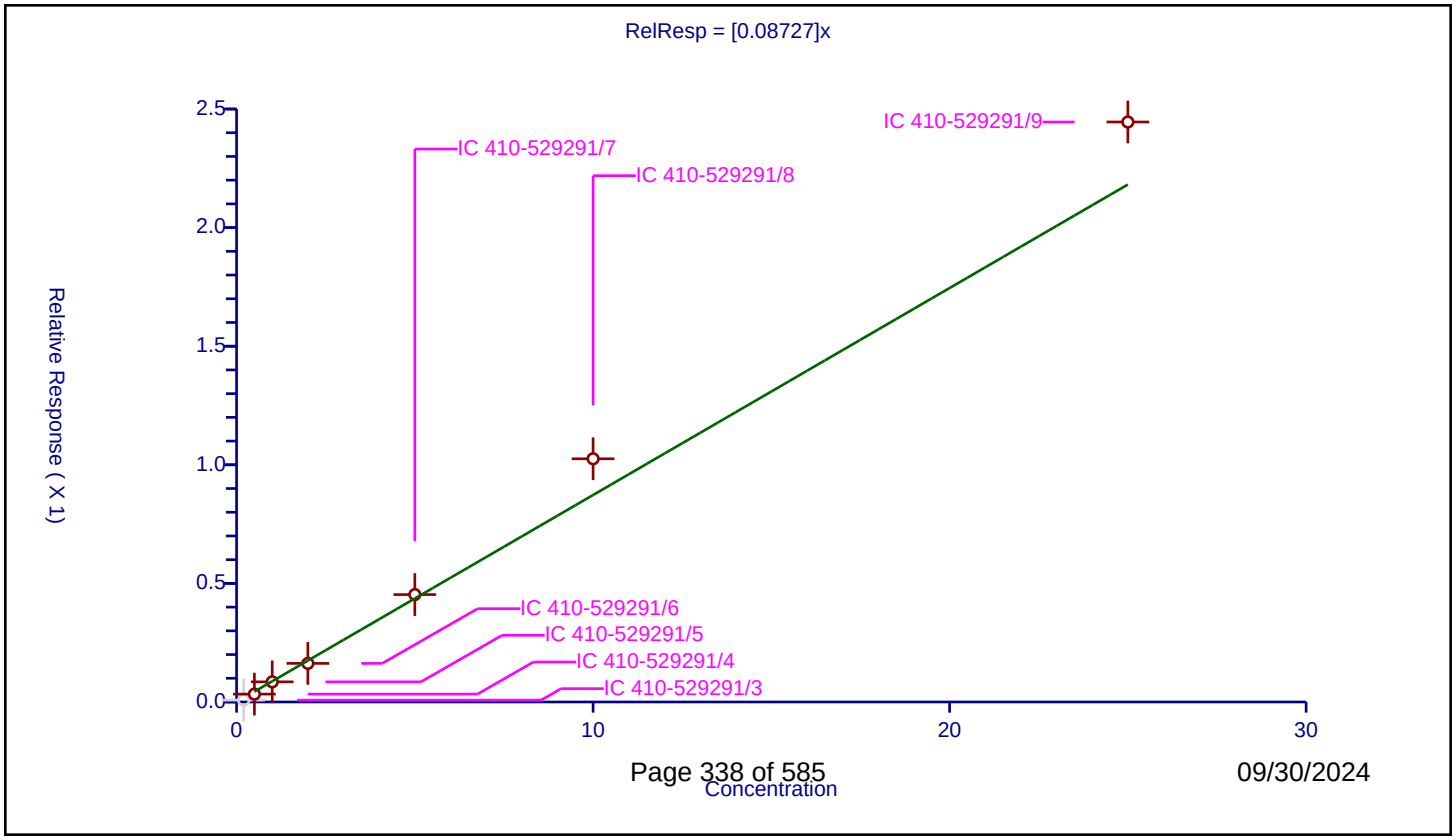
Curve Coefficients

Intercept:	0
Slope:	0.08727

Error Coefficients

Relative Standard Deviation:	14.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/3	0.2	0.00779	10.0	2057737.0	0.038951	N
2	IC 410-529291/4	0.5	0.033206	10.0	2081523.0	0.066413	Y
3	IC 410-529291/5	1.0	0.084928	10.0	2093079.0	0.084928	Y
4	IC 410-529291/6	2.0	0.162688	10.0	2087244.0	0.081344	Y
5	IC 410-529291/7	5.0	0.452761	10.0	2113852.0	0.090552	Y
6	IC 410-529291/8	10.0	1.025437	10.0	2097857.0	0.102544	Y
7	IC 410-529291/9	25.0	2.445241	10.0	2130682.0	0.09781	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

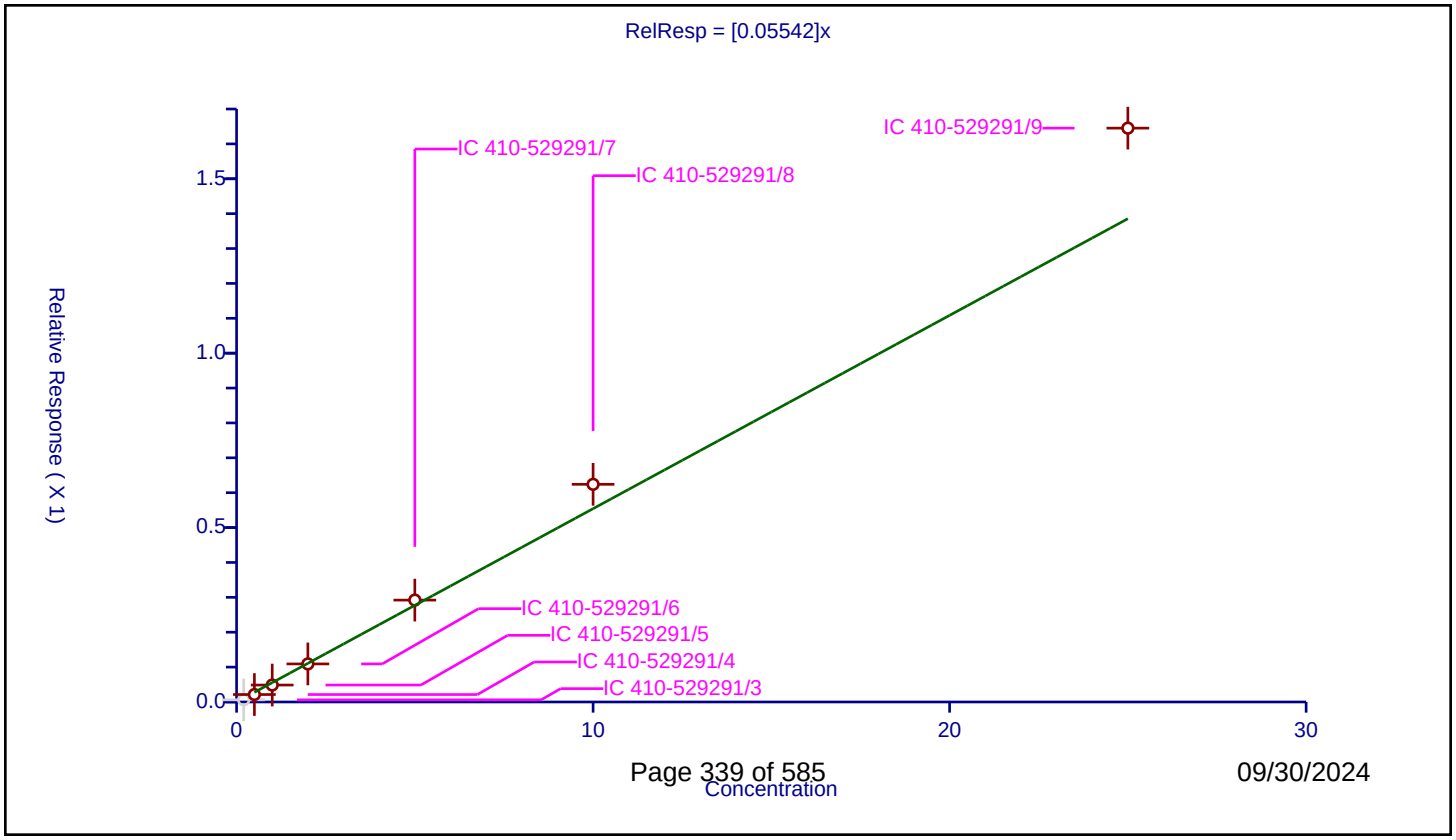
Curve Coefficients

Intercept:	0
Slope:	0.05542

Error Coefficients

Relative Standard Deviation:	15.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/3	0.2	0.006191	10.0	2057737.0	0.030956	N
2	IC 410-529291/4	0.5	0.021383	10.0	2081523.0	0.042767	Y
3	IC 410-529291/5	1.0	0.04857	10.0	2093079.0	0.04857	Y
4	IC 410-529291/6	2.0	0.10912	10.0	2087244.0	0.05456	Y
5	IC 410-529291/7	5.0	0.292116	10.0	2113852.0	0.058423	Y
6	IC 410-529291/8	10.0	0.624042	10.0	2097857.0	0.062404	Y
7	IC 410-529291/9	25.0	1.645173	10.0	2130682.0	0.065807	Y



09/30/2024

Calibration / cis-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

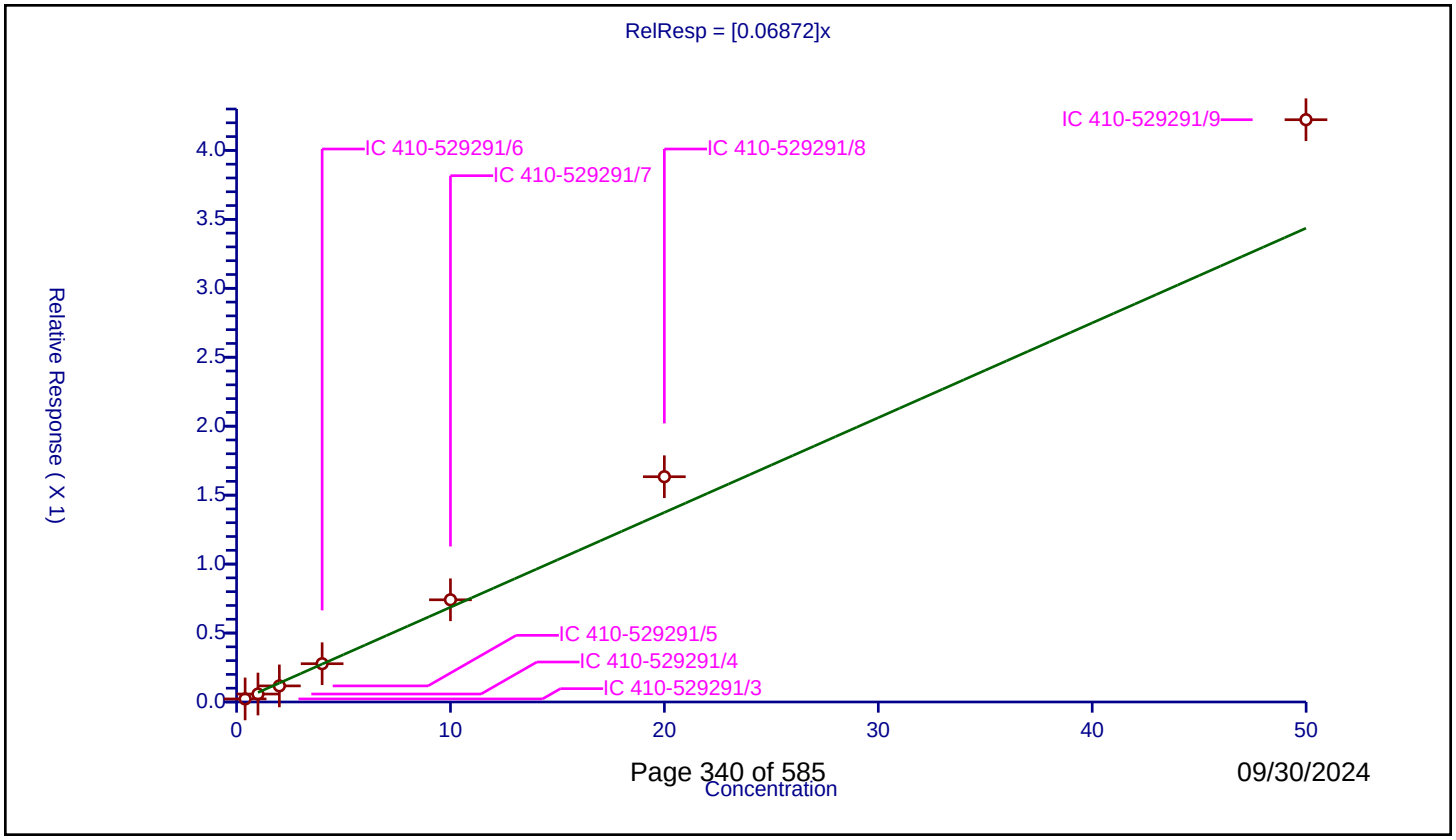
Curve Coefficients

Intercept:	0
Slope:	0.06872

Error Coefficients

Relative Standard Deviation:	17.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/3	0.399946	0.022104	10.0	1560374.0	0.055267	Y
2	IC 410-529291/4	0.999864	0.057747	10.0	1563532.0	0.057755	Y
3	IC 410-529291/5	1.999729	0.116651	10.0	1585581.0	0.058334	Y
4	IC 410-529291/6	3.999457	0.277667	10.0	1583767.0	0.069426	Y
5	IC 410-529291/7	9.998644	0.741076	10.0	1601699.0	0.074118	Y
6	IC 410-529291/8	19.997287	1.633472	10.0	1580523.0	0.081685	Y
7	IC 410-529291/9	49.993218	4.222428	10.0	1615587.0	0.08446	Y



Calibration / Cyclohexanone

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

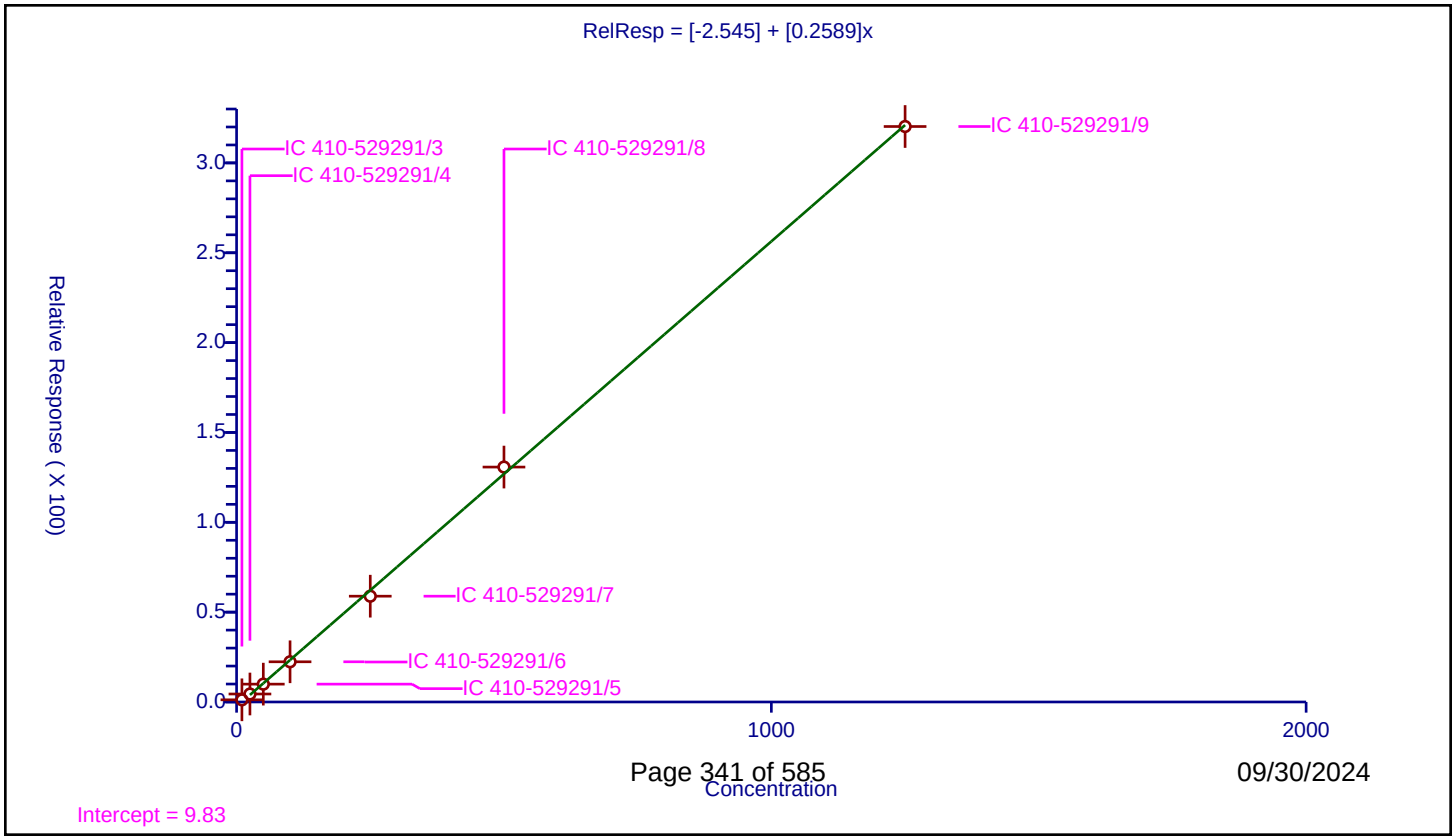
Curve Coefficients

Intercept:	-2.545
Slope:	0.2589

Error Coefficients

Relative Standard Deviation:	20.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/3	10.000637	1.213607	50.0	98302.0	0.121353	Y
2	IC 410-529291/4	25.001592	4.446006	50.0	102474.0	0.177829	Y
3	IC 410-529291/5	50.003184	9.930958	50.0	97332.0	0.198607	Y
4	IC 410-529291/6	100.006368	22.378652	50.0	103916.0	0.223772	Y
5	IC 410-529291/7	250.01592	58.883996	50.0	97186.0	0.235521	Y
6	IC 410-529291/8	500.03184	130.742882	50.0	100864.0	0.261469	Y
7	IC 410-529291/9	1250.0796	320.268445	50.0	98456.0	0.256198	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-529291/13	HL17X12.D
Level 2	IC 410-529291/14	HL17X13.D
Level 3	IC 410-529291/15	HL17X14.D
Level 4	IC 410-529291/16	HL17X15.D
Level 5	IC 410-529291/17	HL17X16.D
Level 6	ICIS 410-529291/18	HL17X17.D
Level 7	IC 410-529291/19	HL17X18.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	0.2246 0.2695	0.2607 0.2484	0.2648	0.2476	0.2657	Ave		0.2545			0.1000	6.2		20.0			
Chloromethane	0.3596 0.3203	0.3159 0.3001	0.3051	0.3053	0.3178	Ave		0.3177			0.1000	6.3		20.0			
1,3-Butadiene	0.2446 0.2972	0.2514 0.2780	0.2549	0.2777	0.2996	Ave		0.2719				8.1		20.0			
Vinyl chloride	0.2977 0.2997	0.2905 0.2844	0.2979	0.2746	0.2934	Ave		0.2912			0.1000	3.1		20.0			
Bromomethane	0.2064 0.2141	0.1936 0.2080	0.2024	0.1959	0.2077	Ave		0.2040			0.1000	3.6		20.0			
Chloroethane	0.1706 0.1762	0.1689 0.1709	0.1698	0.1645	0.1732	Ave		0.1706			0.1000	2.1		20.0			
Dichlorofluoromethane	0.5016 0.4783	0.4521 0.4611	0.4699	0.4479	0.4733	Ave		0.4692			0.1000	3.9		20.0			
Trichlorofluoromethane	0.3210 0.3653	0.3493 0.3454	0.3649	0.3391	0.3683	Ave		0.3505			0.1000	4.9		20.0			
Ethyl ether	0.1090 0.1452	0.1272 0.1381	0.1368	0.1287	0.1399	Ave		0.1321				9.1		20.0			
Freon 123a	0.2655 0.2691	0.2566 0.2523	0.2658	0.2461	0.2675	Ave		0.2604				3.4		20.0			
Acrolein	1.6757 2.3467	1.8806 2.4693	2.0520	2.2052	2.2538	Ave		2.1262				13.0		20.0			
1,1-Dichloroethene	0.1886 0.1833	0.1753 0.1797	0.1718	0.1754	0.1896	Ave		0.1805			0.1000	3.8		20.0			
Acetone	2.9374 2.6686	2.3470 2.6946	2.6078	2.7302	2.6435	Ave		2.6613			0.1000	6.6		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 Environment Testing, LLC Job No.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

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	0.1369 0.1904	0.1672 0.1845	0.1867	0.1785	0.1984	Ave		0.1775			0.1000	11.5		20.0			
Methyl iodide	0.3419 0.3697	0.3409 0.3617	0.3577	0.3600	0.3765	Ave		0.3583				3.7		20.0			
Ethyl bromide	0.1432 0.1746	0.1599 0.1612	0.1666	0.1521	0.1657	Ave		0.1605				6.4		20.0			
Carbon disulfide	0.4630 0.5288	0.5073 0.5198	0.5281	0.5139	0.5392	Ave		0.5143			0.1000	4.8		20.0			
Methyl acetate	+++++ 6.8248	8.2527 8.0395	6.3924	6.9127	6.8386	Ave		7.2101			0.1000	10.4		20.0			
Allyl chloride	0.3023 0.3267	0.2960 0.3197	0.3063	0.3161	0.3313	Ave		0.3140				4.1		20.0			
Methylene Chloride	0.2563 0.2184	0.2187 0.2109	0.2258	0.2190	0.2243	Ave		0.2248			0.1000	6.5		20.0			
t-Butyl alcohol	0.7047 0.8015	0.7039 0.7060	0.7349	0.7263	0.7420	Ave		0.7313				4.7		20.0			
Acrylonitrile	+++++ 3.9367	+++++ 4.0840	2.7998	3.4380	3.7627	Ave		3.6042				14.2		20.0			
Methyl tert-butyl ether	0.4793 0.5096	0.4792 0.4965	0.4914	0.4961	0.5183	Ave		0.4958			0.1000	2.9		20.0			
trans-1,2-Dichloroethene	0.2087 0.2185	0.1988 0.2143	0.2118	0.2071	0.2180	Ave		0.2110			0.1000	3.3		20.0			
n-Hexane	0.1725 0.2708	0.2391 0.2655	0.2533	0.2529	0.2892	Ave		0.2490				15.0		20.0			
1,1-Dichloroethane	0.3962 0.4189	0.3845 0.4060	0.3998	0.4035	0.4140	Ave		0.4033			0.2000	2.8		20.0			
di-Isopropyl ether	0.6283 0.6989	0.6331 0.6845	0.6591	0.6650	0.6874	Ave		0.6652				4.1		20.0			
2-Chloro-1,3-butadiene	0.2978 0.3409	0.2837 0.3368	0.3136	0.3136	0.3449	Ave		0.3187				7.3		20.0			
Ethyl t-butyl ether	0.5824 0.6460	0.5809 0.6270	0.6256	0.6166	0.6500	Ave		0.6184				4.5		20.0			
2-Butanone (MEK)	3.5946 4.9870	3.7843 5.0800	4.0175	4.5975	4.7001	Ave		4.3944			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 Environment Testing, LLC Job No.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

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	0.2324 0.2511	0.2270 0.2461	0.2344	0.2405	0.2508	Ave		0.2403			0.1000	3.9		20.0			
2,2-Dichloropropane	0.3304 0.3434	0.3236 0.3339	0.3331	0.3327	0.3461	Ave		0.3347				2.3		20.0			
Propionitrile	0.4753 1.3542	0.7096 1.4094	0.9537	1.0123	1.1754	Lin1	-5.736	1.3751							0.9950		0.9900
Methacrylonitrile	4.0516 5.4415	4.4626 5.5850	5.0384	5.2757	5.3744	Ave		5.0327				11.3		20.0			
Bromochloromethane	0.0976 0.1048	0.0944 0.1031	0.1029	0.1011	0.1068	Ave		0.1015				4.2		20.0			
Tetrahydrofuran	0.7657 1.4369	1.1351 1.4863	1.3742	1.4156	1.4367	Ave		1.2929				20.1	*	20.0			
Chloroform	0.3942 0.4128	0.3788 0.4014	0.4006	0.3995	0.4147	Ave		0.4003			0.2000	3.0		20.0			
1,1,1-Trichloroethane	0.3154 0.3548	0.3228 0.3456	0.3510	0.3368	0.3631	Ave		0.3414			0.1000	5.1		20.0			
Cyclohexane	0.2714 0.3652	0.3352 0.3538	0.3361	0.3315	0.3738	Ave		0.3381			0.1000	9.9		20.0			
Carbon tetrachloride	0.2724 0.3133	0.2797 0.3068	0.2975	0.2953	0.3172	Ave		0.2975			0.1000	5.6		20.0			
1,1-Dichloropropene	0.2969 0.3172	0.2842 0.3130	0.2978	0.2967	0.3210	Ave		0.3038				4.4		20.0			
Isobutyl alcohol	0.1613 0.2730	0.2302 0.2723	0.2219	0.2318	0.2558	Ave		0.2352				16.4		20.0			
Benzene	0.8754 0.9621	0.8623 0.9429	0.9185	0.9137	0.9722	Ave		0.9210			0.5000	4.5		20.0			
1,2-Dichloroethane	0.2262 0.2511	0.2346 0.2378	0.2411	0.2449	0.2590	Ave		0.2421			0.1000	4.5		20.0			
t-Amyl methyl ether	0.5148 0.5676	0.5095 0.5567	0.5534	0.5464	0.5725	Ave		0.5458				4.5		20.0			
n-Heptane	0.2052 0.2694	0.2533 0.2671	0.2489	0.2475	0.2893	Ave		0.2544				10.3		20.0			
n-Butanol	+++++ 0.2129	0.0876 0.2158	0.1421	0.1662	0.1855	Lin	-8.501	0.2196							1.0000		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 Environment Testing, LLC Job No.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

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	0.2292 0.2533	0.2329 0.2489	0.2426	0.2404	0.2508	Ave		0.2426			0.2000	3.8		20.0			
Methylcyclohexane	0.2501 0.3757	0.3322 0.3683	0.3526	0.3402	0.3865	Ave		0.3437			0.1000	13.2		20.0			
1,2-Dichloropropane	0.2159 0.2432	0.2166 0.2421	0.2350	0.2305	0.2456	Ave		0.2327			0.1000	5.3		20.0			
Methyl methacrylate	+++++ 10.560	6.4279 11.092	9.0083	9.6296	10.016	Ave		9.4558				17.4		20.0			
1,4-Dioxane	+++++ 0.0439	0.0116 0.0401	0.0251	0.0375	0.0378	Qua	-1.151	0.0477	-0.000005		0.0050				0.9990		0.9900
Dibromomethane	0.0921 0.1136	0.1045 0.1132	0.1056	0.1113	0.1168	Ave		0.1082				7.7		20.0			
Bromodichloromethane	0.2517 0.2947	0.2685 0.2928	0.2793	0.2840	0.2978	Ave		0.2813			0.2000	5.9		20.0			
2-Nitropropane	3.2056 3.1951	2.8532 3.2448	3.0951	3.0174	3.0571	Ave		3.0955				4.4		20.0			
1-Bromo-2-chloroethane	0.1694 0.2272	0.1991 0.2193	0.2083	0.1952	0.2145	Ave		0.2047				9.3		20.0			
cis-1,3-Dichloropropene	0.2978 0.3709	0.3061 0.3684	0.3438	0.3430	0.3679	Ave		0.3425			0.2000	8.8		20.0			
4-Methyl-2-pentanone (MIBK)	10.310 13.091	10.975 13.511	12.382	12.789	12.955	Ave		12.287			0.1000	9.7		20.0			
Toluene	0.7752 0.8210	0.7318 0.8087	0.7947	0.7848	0.8173	Ave		0.7905			0.4000	3.9		20.0			
trans-1,3-Dichloropropene	0.3246 0.3995	0.3267 0.4016	0.3709	0.3644	0.3932	Ave		0.3687			0.1000	8.8		20.0			
Ethyl methacrylate	0.2163 0.3056	0.2083 0.3123	0.2539	0.2701	0.2997	Ave		0.2666				15.9		20.0			
1,1,2-Trichloroethane	0.2085 0.2141	0.1977 0.2106	0.2161	0.2047	0.2195	Ave		0.2102			0.1000	3.5		20.0			
Tetrachloroethene	0.3584 0.3826	0.3465 0.3730	0.3640	0.3626	0.3842	Ave		0.3673			0.2000	3.7		20.0			
1,3-Dichloropropane	0.3169 0.3786	0.3279 0.3725	0.3667	0.3583	0.3793	Ave		0.3572				7.0		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 Environment Testing, LLC Job No.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

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	+++++ 8.8818	6.1595 9.1901	7.7504	8.1483	8.6193	Ave		8.1249			0.1000	13.4		20.0			
Dibromochloromethane	0.2285 0.2781	0.2336 0.2785	0.2601	0.2591	0.2784	Ave		0.2595				8.2		20.0			
1,2-Dibromoethane (EDB)	0.1675 0.2105	0.1789 0.2062	0.1992	0.1966	0.2084	Ave		0.1953			0.1000	8.3		20.0			
1-Chlorohexane	0.4784 0.4496	0.4258 0.4410	0.4264	0.4160	0.4495	Ave		0.4410				4.7		20.0			
Chlorobenzene	0.8575 0.9102	0.8030 0.8864	0.8667	0.8575	0.8973	Ave		0.8684			0.5000	4.0		20.0			
1,1,1,2-Tetrachloroethane	0.2849 0.3222	0.2742 0.3183	0.3083	0.2999	0.3175	Ave		0.3036				6.0		20.0			
Ethylbenzene	1.4660 1.6186	1.4336 1.6027	1.4969	1.5170	1.5999	Ave		1.5335			0.1000	4.8		20.0			
m&p-Xylene	0.5274 0.6226	0.5351 0.6155	0.5803	0.5827	0.6132	Ave		0.5824			0.1000	6.6		20.0			
o-Xylene	0.5319 0.6082	0.5488 0.6026	0.5621	0.5700	0.5992	Ave		0.5747			0.3000	5.1		20.0			
Styrene	0.7555 1.0003	0.7790 0.9964	0.8572	0.8830	0.9643	Ave		0.8908			0.3000	11.3		20.0			
Bromoform	0.1531 0.1722	0.1423 0.1758	0.1623	0.1639	0.1707	Ave		0.1629			0.1000	7.3		20.0			
Isopropylbenzene	1.2582 1.4902	1.2700 1.4697	1.3813	1.3709	1.4628	Ave		1.3862			0.1000	6.8		20.0			
1,1,2,2-Tetrachloroethane	0.4125 0.4743	0.4195 0.4646	0.4612	0.4589	0.4766	Ave		0.4525			0.3000	5.7		20.0			
Bromobenzene	0.6371 0.6784	0.6227 0.6626	0.6639	0.6600	0.6855	Ave		0.6586				3.3		20.0			
trans-1,4-Dichloro-2-butene	3.7193 5.3684	4.3938 5.5978	5.0390	5.1499	5.2002	Ave		4.9241				13.2		20.0			
1,2,3-Trichloropropane	0.1005 0.1235	0.0986 0.1209	0.1301	0.1205	0.1259	Ave		0.1171				10.6		20.0			
N-Propylbenzene	2.9944 3.3198	2.9094 3.2905	3.0637	3.1783	3.2782	Ave		3.1478				5.1		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 Environment Testing, LLC Job No.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

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	0.5880 0.6823	0.6023 0.6639	0.6514	0.6528	0.6731	Ave		0.6448				5.6		20.0			
1,3,5-Trimethylbenzene	2.0763 2.3721	2.0111 2.3347	2.1865	2.1951	2.3195	Ave		2.2136				6.2		20.0			
4-Chlorotoluene	0.6090 0.6919	0.6035 0.6832	0.6355	0.6626	0.6829	Ave		0.6526				5.6		20.0			
tert-Butylbenzene	0.4802 0.5164	0.4606 0.5089	0.5112	0.4797	0.5072	Ave		0.4949				4.3		20.0			
Pentachloroethane	0.2727 0.3998	0.3133 0.3851	0.3494	0.3236	0.3685	Ave		0.3446				12.9		20.0			
1,2,4-Trimethylbenzene	2.0098 2.3943	2.0094 2.3676	2.1619	2.2224	2.3420	Ave		2.2153				7.3		20.0			
sec-Butylbenzene	2.4834 2.9382	2.5336 2.8990	2.6736	2.7122	2.8942	Ave		2.7335				6.7		20.0			
1,3-Dichlorobenzene	1.1604 1.3272	1.1228 1.3072	1.2493	1.2448	1.2956	Ave		1.2439			0.6000	6.2		20.0			
p-Isopropyltoluene	2.1311 2.5839	2.1093 2.5346	2.3211	2.3525	2.4773	Ave		2.3586				8.0		20.0			
1,4-Dichlorobenzene	1.2927 1.3454	1.2282 1.2987	1.2508	1.2743	1.3146	Ave		1.2864			0.5000	3.1		20.0			
1,2,3-Trimethylbenzene	0.9194 1.0528	0.9528 1.0410	1.0259	0.9952	1.0310	Ave		1.0026				5.0		20.0			
Benzyl chloride	0.1239 0.2028	0.1407 0.2007	0.1692	0.1816	0.1982	Ave		0.1739				17.9		20.0			
n-Butylbenzene	0.9326 1.2159	0.8990 1.2045	1.0419	1.0855	1.1692	Ave		1.0784				11.8		20.0			
1,2-Dichlorobenzene	1.0345 1.1897	1.0822 1.1788	1.1332	1.1478	1.1965	Ave		1.1375			0.4000	5.3		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0671	0.0444 0.0683	0.0573	0.0590	0.0659	Ave		0.0603			0.0500	14.9		20.0			
1,3,5-Trichlorobenzene	0.7547 0.9434	0.7750 0.9207	0.8253	0.8369	0.8968	Ave		0.8504				8.5		20.0			
1,2,4-Trichlorobenzene	0.4543 0.7875	0.5816 0.7784	0.6388	0.6766	0.7358	Ave		0.6647			0.2000	17.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

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	0.2430 0.2731	0.2386 0.2659	0.2395	0.2380	0.2584	Ave		0.2509				5.8		20.0			
Naphthalene	0.8384 1.3212	0.8460 1.3279	1.0899	1.1374	1.2490	Ave		1.1157				18.5		20.0			
1,2,3-Trichlorobenzene	0.4455 0.6228	0.4331 0.6203	0.5223	0.5232	0.5788	Ave		0.5351				14.4		20.0			
Dibromofluoromethane (Surr)	0.2432 0.2452	0.2443 0.2446	0.2456	0.2455	0.2460	Ave		0.2449				0.4		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0486 0.0494	0.0505 0.0497	0.0498	0.0512	0.0510	Ave		0.0500				1.9		20.0			
Toluene-d8 (Surr)	1.2979 1.3077	1.2957 1.3111	1.2973	1.2975	1.2965	Ave		1.3005				0.5		20.0			
4-Bromofluorobenzene (Surr)	0.4781 0.4930	0.4846 0.4881	0.4857	0.4853	0.4847	Ave		0.4856				0.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 410-189680-1 | Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 | GC Column: R-624SilMS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 | Calibration End Date: 07/17/2024 19:35 | Calibration ID: 63923

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-529291/13	HL17X12.D
Level 2	IC 410-529291/14	HL17X13.D
Level 3	IC 410-529291/15	HL17X14.D
Level 4	IC 410-529291/16	HL17X15.D
Level 5	IC 410-529291/17	HL17X16.D
Level 6	ICIS 410-529291/18	HL17X17.D
Level 7	IC 410-529291/19	HL17X18.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	9281 587472	26885 1390259	55411	103135	285274	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	14857 698279	32575 1679210	63839	127199	341207	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	10106 647940	25928 1555751	53326	115676	321741	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	12300 653418	29955 1591540	62326	114386	315003	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	8528 466775	19960 1163825	42344	81600	223017	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	7050 384021	17413 956602	35519	68519	185950	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	20724 1042688	46614 2580407	98322	186601	508235	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	13263 796394	36023 1932750	76358	141253	395462	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	4503 316557	13110 772815	28630	53590	150219	0.200 10.00	0.500 25.0	1.000	2.00	5.00
Freon 123a	FB	Ave	10967 586623	26460 1412036	55610	102520	287233	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd10	Ave	33051 2539491	95690 6650715	210009	440712	1245451	10.0 501	25.1 1253	50.1	100	251
1,1-Dichloroethene	FB	Ave	7790 399604	18076 1005469	35938	73081	203584	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd10	Ave	11562 576319	23832 1448343	53263	108891	291520	2.00 100	5.00 250	10.0	20.0	50.0
Freon 113	FB	Ave	5656 414973	17239 1032485	39060	74381	213087	0.200 10.0	0.500 25.0	1.00	2.00	5.00

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

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	14127 805987	35150 2023940	74851	149959	404273	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl bromide	FB	Ave	5926 381365	16513 903862	34911	63457	178273	0.200 10.0	0.501 25.0	1.00	2.00	5.01
Carbon disulfide	FB	Ave	19127 1152754	52314 2908751	110507	214076	578928	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd10	Ave	+++++ 147389	8380 432127	13056	27571	75415	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	12491 712108	30519 1788984	64088	131675	355706	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	10587 476063	22554 1180149	47257	91222	240812	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd10	Ave	5548 346202	14295 758970	30018	57937	163655	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd10	Ave	+++++ 212540	+++++ 548794	14296	34281	103737	+++++ 25.0	+++++ 62.5	2.50	5.00	12.5
Methyl tert-butyl ether	FB	Ave	19803 1110851	49418 2778282	102828	206688	556492	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	8623 476229	20498 1199328	44322	86294	234115	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	7125 590406	24651 1485686	53002	105375	310523	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	16367 913187	39649 2271882	83665	168074	444557	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	25956 1523642	65281 3830292	137917	277041	738059	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	12303 743137	29250 1884751	65626	130622	370346	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	24061 1408237	59901 3508822	130910	256859	697966	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAd10	Ave	14149 1076984	38427 2730512	82055	183369	518321	2.00 100	5.00 250	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	9603 547319	23403 1376940	49049	100203	269274	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	13650 748609	33367 1868801	69697	138589	371657	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.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

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	Lin1	3742 584907	14411 1515126	38959	80750	259240	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd10	Ave	15948 1175144	45314 3001946	102907	210419	592679	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	4033 228390	9734 576871	21538	42127	114725	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd10	Ave	1507 155153	5763 399453	14034	28231	79216	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	16286 899884	39062 2246519	83817	166424	445327	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	13029 773530	33285 1934110	73445	140304	389907	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	11211 796170	34562 1980148	70327	138098	401385	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	11253 682958	28843 1717084	62248	123016	340591	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	12264 691520	29310 1751486	62311	123604	344654	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd10	Ave	3175 294776	11688 731832	22663	46228	141060	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	36165 2097432	88920 5276356	192189	380618	1043911	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	9347 547413	24189 1330758	50438	102042	278071	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	21269 1237336	52534 3115580	115791	227609	614715	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	8478 587317	26119 1494791	52085	103113	310620	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butanol	TBAd10	Lin	+++++ 402360	7780 1014924	25393	58005	178991	+++++ 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	9471 552202	24013 1392945	50755	100129	269294	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	10334 819028	34255 2060812	73783	141729	415012	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	8921 530100	22332 1354768	49174	96005	263728	0.200 10.0	0.500 25.0	1.00	2.00	5.00

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

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	TBAd10	Ave	+++++ 228062	6527 596211	18399	38407	110457	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd10	Qua	+++++ 47428	589 107802	2565	7477	20852	+++++ 500	25.0 1250	50.0	100	250
Dibromomethane	FB	Ave	3806 247699	10776 633709	22087	46352	125447	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	10400 642408	27688 1638596	58441	118299	319788	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd10	Ave	6309 345002	14486 872051	31608	60174	168568	1.00 50.0	2.50 125	5.00	10.0	25.0
1-Bromo-2-chloroethane	FB	Ave	7000 495195	20534 1227279	43589	81329	230339	0.200 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,3-Dichloropropene	FB	Ave	12302 808503	31561 2061318	71938	142894	395013	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone (MIBK)	TBAd10	Ave	40581 2827093	111439 7262315	252892	510085	1428635	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd5	Ave	24042 1340114	56769 3402986	124876	247257	662789	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd5	Ave	10067 652095	25343 1689983	58273	114809	318847	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd5	Ave	6709 498734	16157 1314201	39892	85090	243024	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2-Trichloroethane	CBZd5	Ave	6466 349512	15332 886188	33952	64482	177984	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd5	Ave	11115 624529	26882 1569688	57194	114229	311584	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd5	Ave	9829 617884	25437 1567708	57623	112880	307626	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd10	Ave	+++++ 1918103	62545 4939746	158297	324991	950515	+++++ 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd5	Ave	7087 453939	18118 1171893	40865	81625	225771	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane (EDB)	CBZd5	Ave	5196 343565	13881 867822	31297	61941	169021	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd5	Ave	14836 733881	33028 1855929	67008	131072	364522	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.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

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	26594 1485707	62292 3730004	136192	270180	727641	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd5	Ave	8837 525952	21272 1339564	48436	94490	257505	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd5	Ave	45467 2641863	111205 6744183	235206	477950	1297457	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd5	Ave	32712 2032315	83022 5180338	182367	367164	994582	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd5	Ave	16496 992658	42571 2535817	88319	179587	485891	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Styrene	CBZd5	Ave	23431 1632673	60431 4192983	134692	278205	781985	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd5	Ave	4748 281032	11036 739939	25505	51626	138401	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd5	Ave	39023 2432389	98516 6184746	217049	431939	1186225	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd4	Ave	7090 437490	18015 1114431	40234	80095	216990	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd4	Ave	10950 625710	26744 1589303	57921	115186	312064	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBAd10	Ave	14640 1159365	44616 3008869	102918	205401	573467	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd4	Ave	1727 113942	4234 289878	11352	21029	57302	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd4	Ave	51467 3062153	124947 7892215	267298	554694	1492472	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd4	Ave	10107 629303	25865 1592312	56830	113923	306440	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd4	Ave	35688 2188011	86372 5599818	190766	383098	1055997	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd4	Ave	10468 638169	25919 1638599	55441	115637	310904	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd4	Ave	8253 476317	19782 1220631	44596	83719	230890	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Pentachloroethane	DCBd4	Ave	4688 368744	13457 923575	30480	56475	167767	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd4	Ave	34544 2208421	86299 5678638	188617	387876	1066239	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd4	Ave	42685	108808	233265	473356	1317645	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.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

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
			2710113	6953178				10.0	25.0			
1,3-Dichlorobenzene	DCBd4	Ave	19945 1224157	48221 3135342	108997	217258	589863	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd4	Ave	36629 2383370	90589 6079183	202510	410578	1127839	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd4	Ave	22219 1240941	52746 3114969	109131	222405	598508	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd4	Ave	15803 971057	40918 2496878	89509	173683	469362	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd4	Ave	2129 187101	6041 481305	14761	31696	90213	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd4	Ave	16029 1121539	38611 2888960	90904	189440	532292	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd4	Ave	17781 1097357	46477 2827219	98865	200320	544734	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	+++++ 61851	1908 163782	4998	10305	30004	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd4	Ave	12971 870172	33284 2208226	72008	146055	408296	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trichlorobenzene	DCBd4	Ave	7808 726353	24976 1867004	55732	118082	334967	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd4	Ave	4176 251887	10248 637788	20896	41538	117651	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd4	Ave	14411 1218640	36332 3184979	95090	198506	568628	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd4	Ave	7658 574468	18601 1487843	45567	91311	263494	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	502284 534478	503731 547498	513921	511296	528198	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	100335 107624	104077 111324	104171	106746	109485	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd5	Ave	2012610 2134408	2010119 2206861	2038483	2043996	2102825	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	741332 804668	751834 821565	763245	764534	786176	10.0 10.0	10.0 10.0	10.0	10.0	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 410-189680-1 | Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 | GC Column: R-624SilMS | ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 | Calibration End Date: 07/17/2024 19:35 | Calibration ID: 63923

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-529291/13	HL17X12.D
Level 2	IC 410-529291/14	HL17X13.D
Level 3	IC 410-529291/15	HL17X14.D
Level 4	IC 410-529291/16	HL17X15.D
Level 5	IC 410-529291/17	HL17X16.D
Level 6	ICIS 410-529291/18	HL17X17.D
Level 7	IC 410-529291/19	HL17X18.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	-11.7 -2.4	2.5	4.1	-2.7	4.4	5.9	50 30	30	30	30	30	30
Chloromethane	13.2 -5.6	-0.6	-4.0	-3.9	0.0	0.8	50 30	30	30	30	30	30
1,3-Butadiene	-10.0 2.2	-7.5	-6.3	2.1	10.2	9.3	50 30	30	30	30	30	30
Vinyl chloride	2.3 -2.3	-0.2	2.3	-5.7	0.8	2.9	50 30	30	30	30	30	30
Bromomethane	1.2 1.9	-5.1	-0.8	-4.0	1.8	5.0	50 30	30	30	30	30	30
Chloroethane	0.0 0.2	-1.0	-0.5	-3.6	1.5	3.3	50 30	30	30	30	30	30
Dichlorofluoromethane	6.9 -1.7	-3.6	0.2	-4.5	0.9	1.9	50 30	30	30	30	30	30
Trichlorofluoromethane	-8.4 -1.5	-0.3	4.1	-3.3	5.1	4.2	50 30	30	30	30	30	30
Ethyl ether	-17.5 4.5	-3.8	3.6	-2.6	5.9	9.9	50 30	30	30	30	30	30
Freon 123a	1.9 -3.1	-1.5	2.1	-5.5	2.7	3.3	50 30	30	30	30	30	30
Acrolein	-21.2 16.1	-11.5	-3.5	3.7	6.0	10.4	50 30	30	30	30	30	30
1,1-Dichloroethene	4.5 -0.5	-2.9	-4.9	-2.8	5.0	1.5	50 30	30	30	30	30	30
Acetone	10.4 1.3	-11.8	-2.0	2.6	-0.7	0.3	50 30	30	30	30	30	30
Freon 113	-22.9 3.9	-5.8	5.2	0.6	11.8	7.2	50 30	30	30	30	30	30
Methyl iodide	-4.6 0.9	-4.9	-0.2	0.5	5.1	3.2	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.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

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	-10.8 0.5	-0.4	3.8	-5.2	3.3	8.8	50 30	30	30	30	30	30
Carbon disulfide	-10.0 1.1	-1.4	2.7	-0.1	4.8	2.8	50 30	30	30	30	30	30
Methyl acetate	+++++ 11.5	14.5	-11.3	-4.1	-5.2	-5.3	 30	50	30	30	30	30
Allyl chloride	-3.7 1.8	-5.8	-2.5	0.6	5.5	4.0	50 30	30	30	30	30	30
Methylene Chloride	14.0 -6.2	-2.7	0.5	-2.6	-0.2	-2.8	50 30	30	30	30	30	30
t-Butyl alcohol	-3.6 -3.5	-3.8	0.5	-0.7	1.5	9.6	50 30	30	30	30	30	30
Acrylonitrile	+++++ 13.3	+++++	-22.3	-4.6	4.4	9.2	 30		50	30	30	30
Methyl tert-butyl ether	-3.3 0.1	-3.3	-0.9	0.1	4.5	2.8	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-1.1 1.6	-5.8	0.4	-1.8	3.3	3.5	50 30	30	30	30	30	30
n-Hexane	-30.7 6.6	-4.0	1.7	1.6	16.1	8.7	50 30	30	30	30	30	30
1,1-Dichloroethane	-1.8 0.7	-4.7	-0.8	0.0	2.7	3.9	50 30	30	30	30	30	30
di-Isopropyl ether	-5.5 2.9	-4.8	-0.9	0.0	3.3	5.1	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-6.6 5.7	-11.0	-1.6	-1.6	8.2	6.9	50 30	30	30	30	30	30
Ethyl t-butyl ether	-5.8 1.4	-6.1	1.2	-0.3	5.1	4.5	50 30	30	30	30	30	30
2-Butanone (MEK)	-18.2 15.6	-13.9	-8.6	4.6	7.0	13.5	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-3.3 2.4	-5.6	-2.5	0.1	4.4	4.5	50 30	30	30	30	30	30
2,2-Dichloropropane	-1.3 -0.2	-3.3	-0.5	-0.6	3.4	2.6	50 30	30	30	30	30	30
Propionitrile	38.9 3.3	-6.7	-9.8	-16.0	-10.3	0.6	50 30	30	30	30	30	30
Methacrylonitrile	-19.5 11.0	-11.3	0.1	4.8	6.8	8.1	50 30	30	30	30	30	30
Bromochloromethane	-3.9 1.5	-7.0	1.4	-0.4	5.2	3.2	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.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

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	-40.8 15.0	-12.2	6.3	9.5	11.1	11.1	50 30	30	30	30	30	30
Chloroform	-1.5 0.3	-5.4	0.1	-0.2	3.6	3.1	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-7.6 1.2	-5.4	2.8	-1.3	6.4	3.9	50 30	30	30	30	30	30
Cyclohexane	-19.7 4.6	-0.9	-0.6	-2.0	10.5	8.0	50 30	30	30	30	30	30
Carbon tetrachloride	-8.4 3.2	-6.0	0.0	-0.7	6.6	5.3	50 30	30	30	30	30	30
1,1-Dichloropropene	-2.3 3.0	-6.4	-2.0	-2.3	5.6	4.4	50 30	30	30	30	30	30
Isobutyl alcohol	-31.4 15.8	-2.1	-5.6	-1.4	8.8	16.1	50 30	30	30	30	30	30
Benzene	-5.0 2.4	-6.4	-0.3	-0.8	5.6	4.5	50 30	30	30	30	30	30
1,2-Dichloroethane	-6.5 -1.8	-3.1	-0.4	1.2	7.0	3.7	50 30	30	30	30	30	30
t-Amyl methyl ether	-5.7 2.0	-6.7	1.4	0.1	4.9	4.0	50 30	30	30	30	30	30
n-Heptane	-19.3 5.0	-0.4	-2.2	-2.7	13.7	5.9	50 30	30	30	30	30	30
n-Butanol	+++++ 0.0	28.4	8.9	-2.2	-6.7	1.4	30	50	30	30	30	30
Trichloroethene	-5.5 2.6	-4.0	0.0	-0.9	3.4	4.4	50 30	30	30	30	30	30
Methylcyclohexane	-27.2 7.2	-3.3	2.6	-1.0	12.5	9.3	50 30	30	30	30	30	30
1,2-Dichloropropane	-7.2 4.0	-6.9	1.0	-1.0	5.6	4.5	50 30	30	30	30	30	30
Methyl methacrylate	+++++ 17.3	-32.0	-4.7	1.8	5.9	11.7	30	50	30	30	30	30
1,4-Dioxane	+++++ -0.1	21.2	1.4	3.9	-8.8	2.7	30	50	30	30	30	30
Dibromomethane	-14.8 4.7	-3.4	-2.4	2.9	8.0	5.0	50 30	30	30	30	30	30
Bromodichloromethane	-10.5 4.1	-4.5	-0.7	1.0	5.9	4.8	50 30	30	30	30	30	30
2-Nitropropane	3.6 4.8	-7.8	0.0	-2.5	-1.2	3.2	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.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

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	-17.2 7.1	-2.7	1.8	-4.6	4.8	11.0	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-13.1 7.5	-10.6	0.4	0.1	7.4	8.3	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-16.1 10.0	-10.7	0.8	4.1	5.4	6.5	50 30	30	30	30	30	30
Toluene	-1.9 2.3	-7.4	0.5	-0.7	3.4	3.9	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-12.0 8.9	-11.4	0.6	-1.2	6.6	8.4	50 30	30	30	30	30	30
Ethyl methacrylate	-18.9 17.1	-21.9	-4.8	1.3	12.4	14.6	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-0.8 0.2	-5.9	2.8	-2.6	4.4	1.9	50 30	30	30	30	30	30
Tetrachloroethene	-2.4 1.5	-5.7	-0.9	-1.3	4.6	4.2	50 30	30	30	30	30	30
1,3-Dichloropropane	-11.3 4.3	-8.2	2.7	0.3	6.2	6.0	50 30	30	30	30	30	30
2-Hexanone	+++++ 13.1	-24.2	-4.6	0.3	6.1	9.3	 30	50	30	30	30	30
Dibromochloromethane	-11.9 7.3	-10.0	0.2	-0.1	7.3	7.2	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-14.2 5.6	-8.4	2.0	0.6	6.7	7.8	50 30	30	30	30	30	30
1-Chlorohexane	8.5 0.0	-3.4	-3.3	-5.7	1.9	2.0	50 30	30	30	30	30	30
Chlorobenzene	-1.3 2.1	-7.5	-0.2	-1.2	3.3	4.8	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-6.2 4.8	-9.7	1.5	-1.2	4.6	6.1	50 30	30	30	30	30	30
Ethylbenzene	-4.4 4.5	-6.5	-2.4	-1.1	4.3	5.5	50 30	30	30	30	30	30
m&p-Xylene	-9.4 5.7	-8.1	-0.4	0.0	5.3	6.9	50 30	30	30	30	30	30
o-Xylene	-7.4 4.9	-4.5	-2.2	-0.8	4.3	5.8	50 30	30	30	30	30	30
Styrene	-15.2 11.9	-12.5	-3.8	-0.9	8.2	12.3	50 30	30	30	30	30	30
Bromoform	-6.0 7.9	-12.7	-0.3	0.6	4.8	5.7	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.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

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	-9.2 6.0	-8.4	-0.3	-1.1	5.5	7.5	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-8.8 2.7	-7.3	1.9	1.4	5.3	4.8	50 30	30	30	30	30	30
Bromobenzene	-3.3 0.6	-5.4	0.8	0.2	4.1	3.0	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-24.5 13.7	-10.8	2.3	4.6	5.6	9.0	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-14.2 3.2	-15.8	11.1	2.9	7.5	5.5	50 30	30	30	30	30	30
N-Propylbenzene	-4.9 4.5	-7.6	-2.7	1.0	4.1	5.5	50 30	30	30	30	30	30
2-Chlorotoluene	-8.8 3.0	-6.6	1.0	1.2	4.4	5.8	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-6.2 5.5	-9.1	-1.2	-0.8	4.8	7.2	50 30	30	30	30	30	30
4-Chlorotoluene	-6.7 4.7	-7.5	-2.6	1.5	4.6	6.0	50 30	30	30	30	30	30
tert-Butylbenzene	-3.0 2.8	-6.9	3.3	-3.1	2.5	4.4	50 30	30	30	30	30	30
Pentachloroethane	-20.9 11.7	-9.1	1.4	-6.1	6.9	16.0	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-9.3 6.9	-9.3	-2.4	0.3	5.7	8.1	50 30	30	30	30	30	30
sec-Butylbenzene	-9.1 6.1	-7.3	-2.2	-0.8	5.9	7.5	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-6.7 5.1	-9.7	0.4	0.1	4.2	6.7	50 30	30	30	30	30	30
p-Isopropyltoluene	-9.6 7.5	-10.6	-1.6	-0.3	5.0	9.6	50 30	30	30	30	30	30
1,4-Dichlorobenzene	0.5 1.0	-4.5	-2.8	-0.9	2.2	4.6	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-8.3 3.8	-5.0	2.3	-0.7	2.8	5.0	50 30	30	30	30	30	30
Benzyl chloride	-28.8 15.4	-19.1	-2.7	4.5	14.0	16.7	50 30	30	30	30	30	30
n-Butylbenzene	-13.5 11.7	-16.6	-3.4	0.7	8.4	12.8	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-9.1 3.6	-4.9	-0.4	0.9	5.2	4.6	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.: 410-189680-1 Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

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	+++++ 13.2	-26.4	-5.1	-2.1	9.2	11.1	30	50	30	30	30	30
1,3,5-Trichlorobenzene	-11.3 8.3	-8.9	-2.9	-1.6	5.5	10.9	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-31.7 17.1	-12.5	-3.9	1.8	10.7	18.5	50 30	30	30	30	30	30
Hexachlorobutadiene	-3.2 6.0	-4.9	-4.6	-5.2	3.0	8.8	50 30	30	30	30	30	30
Naphthalene	-24.9 19.0	-24.2	-2.3	1.9	11.9	18.4	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-16.7 15.9	-19.1	-2.4	-2.2	8.2	16.4	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.7 -0.1	-0.3	0.3	0.2	0.4	0.1	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-2.9 -0.6	0.9	-0.5	2.5	1.9	-1.3	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.2 0.8	-0.4	-0.2	-0.2	-0.3	0.6	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-1.6 0.5	-0.2	0.0	-0.1	-0.2	1.5	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Lims ID: IC std1 0.2
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 17-Jul-2024 17:30:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0119602-013
Misc. Info.: IC std1 0.2
Operator ID: knk41612 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jul-2024 22:30:48 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1666

First Level Reviewer: DVW2 Date: 18-Jul-2024 08:28:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.873	1.879	-0.006	33	9281	0.2000	0.1766	
5 Chloromethane	50	2.068	2.074	-0.006	97	14857	0.2000	0.2264	
7 Butadiene	39	2.160	2.166	-0.006	92	10106	0.2000	0.1799	
6 Vinyl chloride	62	2.172	2.178	-0.006	97	12300	0.2000	0.2045	
9 Bromomethane	94	2.501	2.513	-0.012	93	8528	0.2000	0.2024	M
10 Chloroethane	64	2.544	2.550	-0.006	97	7050	0.2000	0.2001	
11 Dichlorofluoromethane	67	2.751	2.769	-0.018	95	20724	0.2000	0.2138	
12 Trichlorofluoromethane	101	2.776	2.867	-0.091	58	13263	0.2000	0.1832	
14 Ethyl ether	59	3.056	3.056	0.000	85	4503	0.2000	0.1650	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.135	3.135	0.000	42	10967	0.2000	0.2039	
16 Acrolein	56	3.227	3.215	0.013	97	33051	10.0	7.90	
17 1,1-Dichloroethene	96	3.336	3.349	-0.013	96	7790	0.2000	0.2089	
19 Acetone	43	3.403	3.367	0.036	68	11562	2.00	2.21	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.367	3.391	-0.024	72	5656	0.2000	0.1542	
21 Iodomethane	142	3.538	3.532	0.006	99	14127	0.2000	0.1908	
22 Ethyl bromide	108	3.550	3.556	-0.006	94	5926	0.2003	0.1788	
23 Carbon disulfide	76	3.629	3.635	-0.006	99	19127	0.2000	0.1800	
24 Methyl acetate	43	3.842	3.769	0.073	24	3235	0.2000	0.2280	M
26 3-Chloro-1-propene	41	3.794	3.788	0.006	89	12491	0.2000	0.1926	
27 Methylene Chloride	84	3.958	3.964	-0.006	61	10587	0.2000	0.2280	
* 28 t-Butyl alcohol-d10 (IS)	65	3.970	3.983	-0.013	53	98405	50.0	50.0	
29 2-Methyl-2-propanol	59	4.074	4.080	-0.006	6	5548	4.00	3.85	
31 Acrylonitrile	53	4.348	4.281	0.067	19	847	0.5000	0.1194	M
32 Methyl tert-butyl ether	73	4.336	4.348	-0.012	94	19803	0.2000	0.1934	
33 trans-1,2-Dichloroethene	96	4.361	4.361	0.000	98	8623	0.2000	0.1978	
34 Hexane	57	4.775	4.787	-0.012	93	7125	0.2000	0.1385	
36 1,1-Dichloroethane	63	5.007	5.013	-0.006	93	16367	0.2000	0.1965	
37 Isopropyl ether	45	5.086	5.074	0.012	96	25956	0.2000	0.1889	
38 2-Chloro-1,3-butadiene	53	5.135	5.129	0.006	89	12303	0.2000	0.1869	
40 Tert-butyl ethyl ether	59	5.616	5.616	0.000	98	24061	0.2000	0.1884	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.885	5.824	0.061	61	14149	2.00	1.64	
42 cis-1,2-Dichloroethene	96	5.848	5.854	-0.006	82	9603	0.2000	0.1934	
43 2,2-Dichloropropane	77	5.866	5.866	0.000	82	13650	0.2000	0.1974	
44 Propionitrile	54	5.970	5.903	0.067	1	3742	4.00	5.55	M
47 Methacrylonitrile	67	6.147	6.122	0.025	93	15948	2.00	1.61	
S 46 1,2-Dichloroethene, Total	100				0			0.3912	
48 Chlorobromomethane	128	6.190	6.190	0.000	90	4033	0.2000	0.1923	
49 Tetrahydrofuran	71	6.226	6.208	0.018	49	1507	1.00	0.5922	
50 Chloroform	83	6.342	6.342	0.000	93	16286	0.2000	0.1970	
$ 52 Dibromofluoromethane (Surr)	113	6.555	6.561	-0.006	94	502284	10.0	9.93	
53 1,1,1-Trichloroethane	97	6.580	6.574	0.006	36	13029	0.2000	0.1848	
54 Cyclohexane	56	6.677	6.677	0.000	92	11211	0.2000	0.1605	
56 Carbon tetrachloride	117	6.793	6.787	0.006	87	11253	0.2000	0.1831	
55 1,1-Dichloropropene	75	6.799	6.793	0.006	94	12264	0.2000	0.1954	
57 Isobutyl alcohol	41	6.994	6.945	0.049	29	3175	10.0	6.86	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.025	-0.012	80	100335	10.0	9.71	
59 Benzene	78	7.055	7.055	0.000	95	36165	0.2000	0.1901	
60 1,2-Dichloroethane	62	7.122	7.128	-0.006	84	9347	0.2000	0.1869	
63 Tert-amyl methyl ether	73	7.256	7.256	0.000	96	21269	0.2000	0.1886	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2065681	10.0	10.0	
65 n-Heptane	43	7.482	7.482	0.000	81	8478	0.2000	0.1613	
67 n-Butanol	56		7.848				ND	ND	
68 Trichloroethene	95	7.964	7.957	0.007	95	9471	0.2000	0.1890	
69 Methylcyclohexane	83	8.274	8.268	0.006	77	10334	0.2000	0.1456	
70 1,2-Dichloropropane	63	8.287	8.287	0.000	74	8921	0.2000	0.1856	
71 2-ethoxy-2-methyl butane	87	8.305	8.305	0.000	90	13208	0.2000	0.1871	
72 Methyl methacrylate	69	8.439	8.378	0.061	41	2050	0.2000	0.1102	M
73 1,4-Dioxane	88		8.390				ND	ND	
74 Dibromomethane	93	8.415	8.403	0.012	78	3806	0.2000	0.1703	M
76 Dichlorobromomethane	83	8.640	8.634	0.006	97	10400	0.2000	0.1790	
77 2-Nitropropane	41	8.915	8.902	0.013	88	6309	1.00	1.04	M
79 1-Bromo-2-chloroethane	63	9.061	9.037	0.024	96	7000	0.2000	0.1655	M
80 cis-1,3-Dichloropropene	75	9.207	9.201	0.006	94	12302	0.2000	0.1739	
82 4-Methyl-2-pentanone (MIBK)	43	9.390	9.384	0.006	97	40581	2.00	1.68	
$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	93	2012610	10.0	9.98	
84 Toluene	92	9.603	9.604	-0.001	98	24042	0.2000	0.1961	
85 trans-1,3-Dichloropropene	75	9.890	9.872	0.018	91	10067	0.2000	0.1761	
104 Ethyl methacrylate	69	9.963	9.945	0.018	80	6709	0.2000	0.1623	M
S 105 1,3-Dichloropropene, Total	100				0			0.3499	
106 1,1,2-Trichloroethane	97	10.085	10.085	0.000	89	6466	0.2000	0.1984	
107 Tetrachloroethene	166	10.177	10.177	0.000	96	11115	0.2000	0.1951	
108 1,3-Dichloropropane	76	10.262	10.250	0.012	89	9829	0.2000	0.1775	
109 2-Hexanone	43	10.335	10.305	0.030	96	17554	2.00	1.10	M
111 Chlorodibromomethane	129	10.475	10.469	0.006	88	7087	0.2000	0.1761	
112 Ethylene Dibromide	107	10.597	10.585	0.012	95	5196	0.2000	0.1715	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1550719	10.0	10.0	
114 1-Chlorohexane	91	11.042	11.036	0.006	53	14836	0.2000	0.2170	
115 Chlorobenzene	112	11.048	11.054	-0.006	96	26594	0.2000	0.1975	
116 1,1,1,2-Tetrachloroethane	131	11.140	11.134	0.006	93	8837	0.2000	0.1877	
117 Ethylbenzene	91	11.146	11.140	0.006	98	45467	0.2000	0.1912	
S 118 Xylenes, Total	106				0			0.5473	
119 m-Xylene & p-Xylene	106	11.268	11.262	0.006	99	32712	0.4000	0.3622	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 o-Xylene	106	11.603	11.591	0.012	96	16496	0.2000	0.1851	
121 Styrene	104	11.621	11.609	0.012	94	23431	0.2000	0.1696	
122 Bromoform	173	11.774	11.768	0.006	95	4748	0.2000	0.1880	
123 Isopropylbenzene	105	11.902	11.896	0.006	95	39023	0.2000	0.1815	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	92	741332	10.0	9.84	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.146	0.000	45	7090	0.2000	0.1823	M
128 Bromobenzene	156	12.164	12.158	0.006	89	10950	0.2000	0.1935	
129 trans-1,4-Dichloro-2-butene	53	12.182	12.170	0.012	92	14640	2.00	1.51	
130 1,2,3-Trichloropropane	110	12.194	12.188	0.006	75	1727	0.2000	0.1716	
131 N-Propylbenzene	91	12.237	12.231	0.006	99	51467	0.2000	0.1903	
132 2-Chlorotoluene	126	12.310	12.304	0.006	96	10107	0.2000	0.1824	
133 1,3,5-Trimethylbenzene	105	12.371	12.365	0.006	93	35688	0.2000	0.1876	
134 4-Chlorotoluene	126	12.414	12.396	0.018	96	10468	0.2000	0.1866	
135 tert-Butylbenzene	134	12.609	12.609	0.000	93	8253	0.2000	0.1941	
136 Pentachloroethane	167	12.646	12.640	0.006	77	4688	0.2000	0.1583	
137 1,2,4-Trimethylbenzene	105	12.658	12.652	0.006	98	34544	0.2000	0.1814	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	42685	0.2000	0.1817	
139 1,3-Dichlorobenzene	146	12.877	12.871	0.006	97	19945	0.2000	0.1866	
140 4-Isopropyltoluene	119	12.889	12.883	0.006	98	36629	0.2000	0.1807	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	859400	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.950	12.950	0.000	92	22219	0.2000	0.2010	
143 1,2,3-Trimethylbenzene	120	12.963	12.957	0.006	94	15803	0.2000	0.1834	
144 Benzyl chloride	126	13.042	13.024	0.018	97	2129	0.2000	0.1425	
145 p-Diethylbenzene	119	13.164	13.158	0.006	93	20532	0.2000	0.1736	M
146 n-Butylbenzene	92	13.188	13.176	0.012	97	16029	0.2000	0.1730	
147 1,2-Dichlorobenzene	146	13.219	13.206	0.013	97	17781	0.2000	0.1819	
149 1,2-Dibromo-3-Chloropropane	155	13.773	13.755	0.018	1	378	0.2000	0.0729	
150 1,3,5-Trichlorobenzene	180	13.895	13.877	0.018	96	12971	0.2000	0.1775	
151 1,2,4-Trichlorobenzene	180	14.322	14.304	0.018	91	7808	0.2000	0.1367	
152 Hexachlorobutadiene	225	14.389	14.383	0.006	94	4176	0.2000	0.1936	
153 Naphthalene	128	14.499	14.481	0.018	96	14411	0.2000	0.1503	
154 1,2,3-Trichlorobenzene	180	14.633	14.621	0.012	92	7658	0.2000	0.1665	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00137	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00220	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00144	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00012	Amount Added:	5.00	Units: uL	Run Reagent

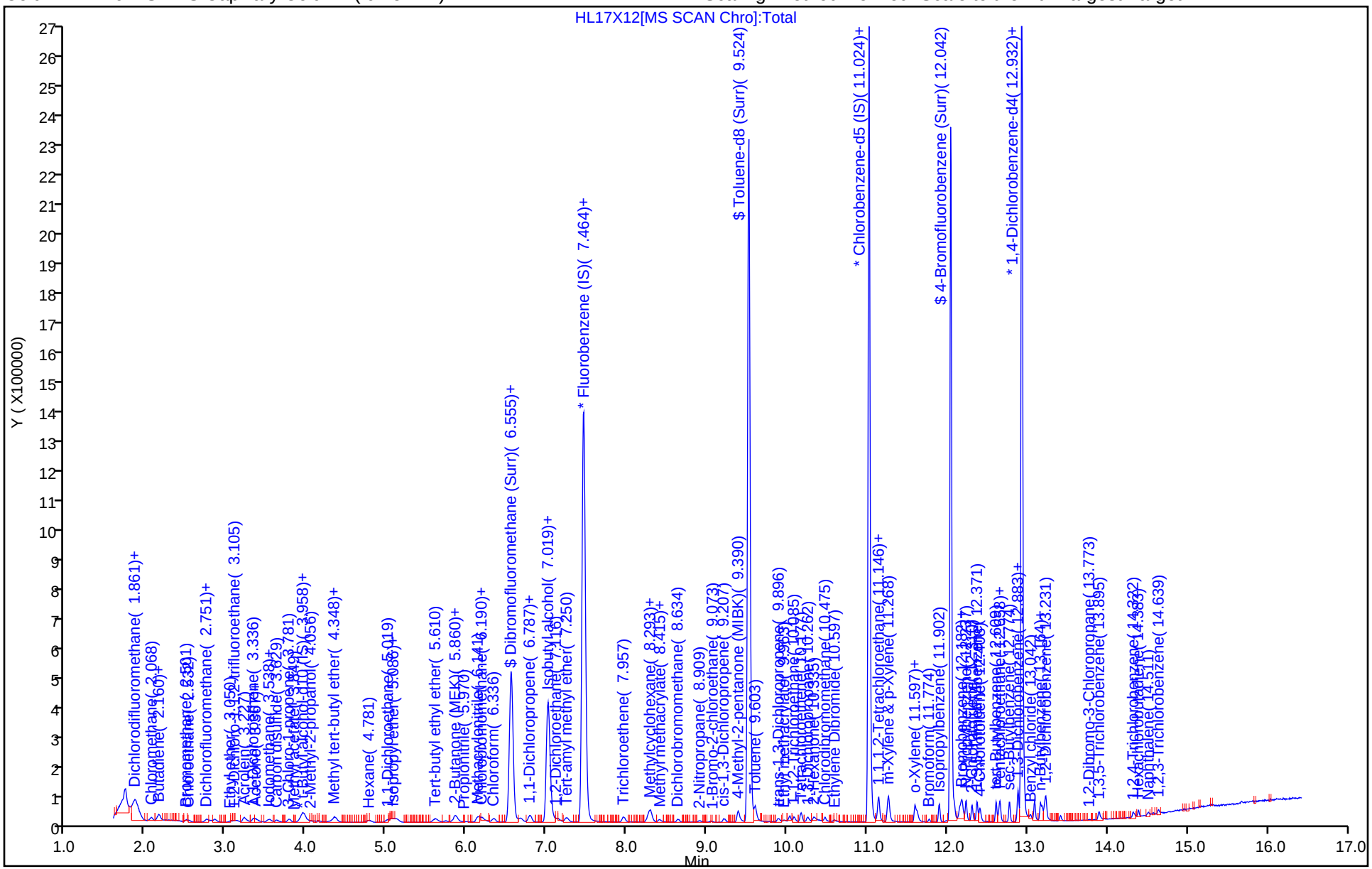
Report Date: 18-Jul-2024 22:30:49 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D

Injection Date:	17-Jul-2024 17:30:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	IC std1 0.2			Worklist Smp#:	13
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSV_19094_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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

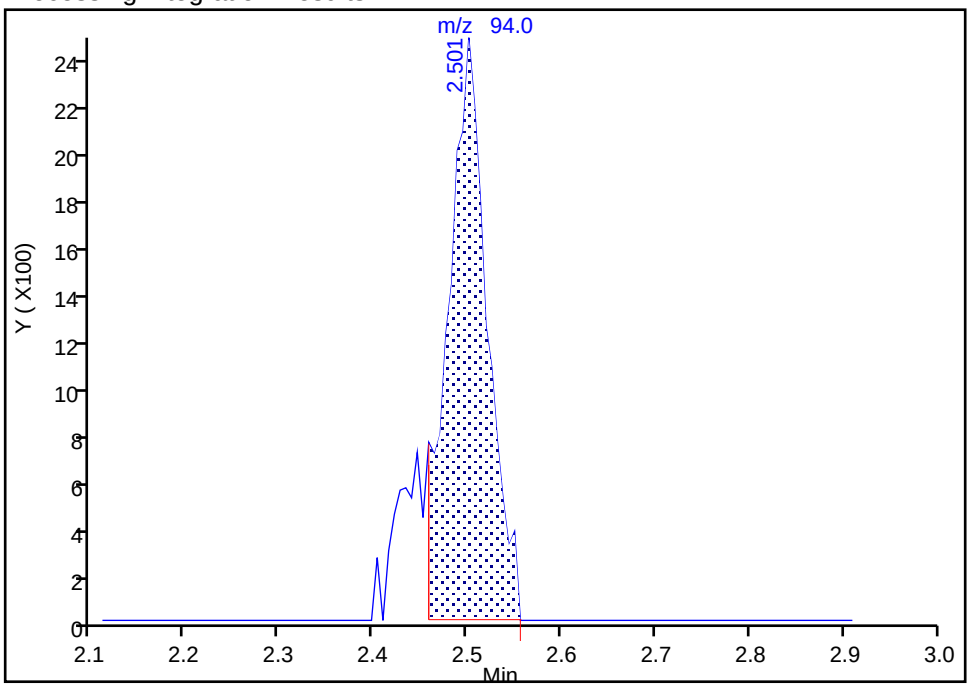
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D				
Injection Date:	17-Jul-2024 17:30:30	Instrument ID:	19094		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

9 Bromomethane, CAS: 74-83-9

Signal: 1

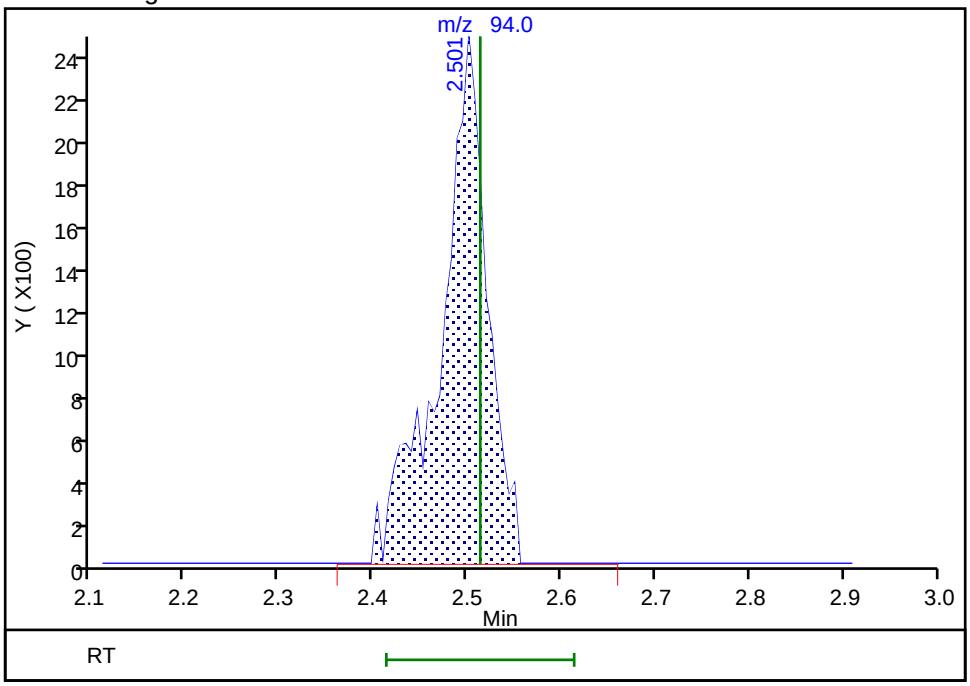
Processing Integration Results

RT: 2.50
Area: 7150
Amount: 0.173728
Amount Units: ug/l



Manual Integration Results

RT: 2.50
Area: 8528
Amount: 0.202371
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:26:47 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

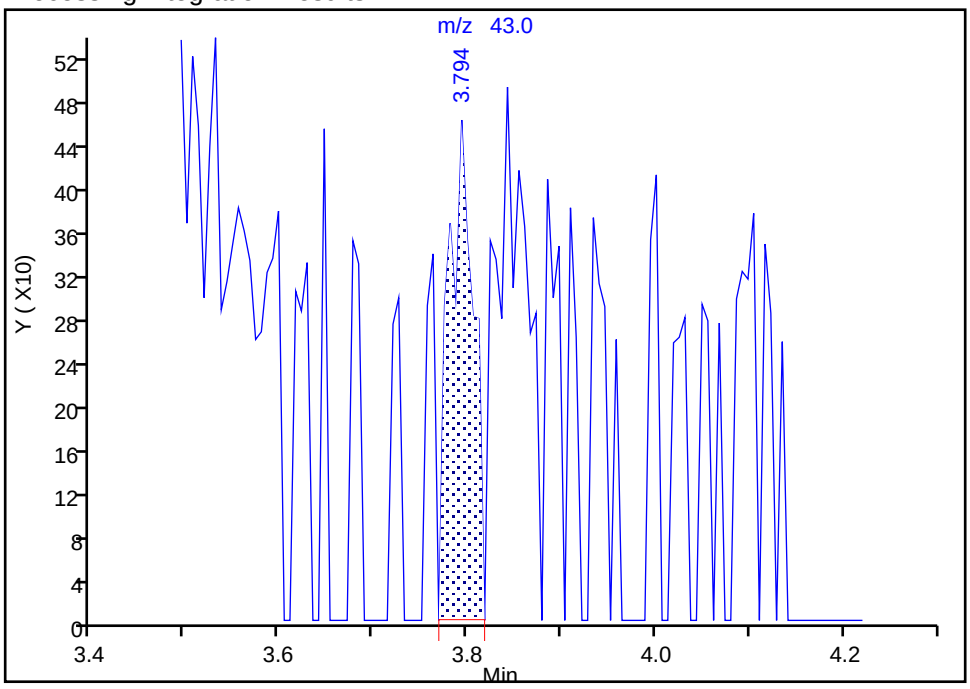
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

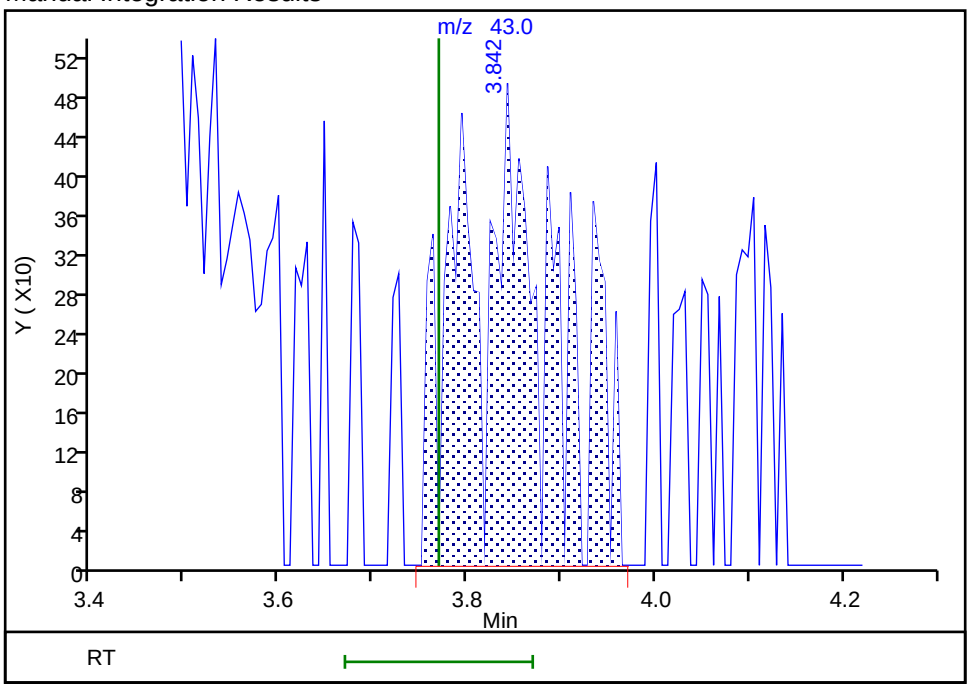
Processing Integration Results

RT: 3.79
Area: 836
Amount: 0.065516
Amount Units: ug/l



Manual Integration Results

RT: 3.84
Area: 3235
Amount: 0.227973
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:27:01 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

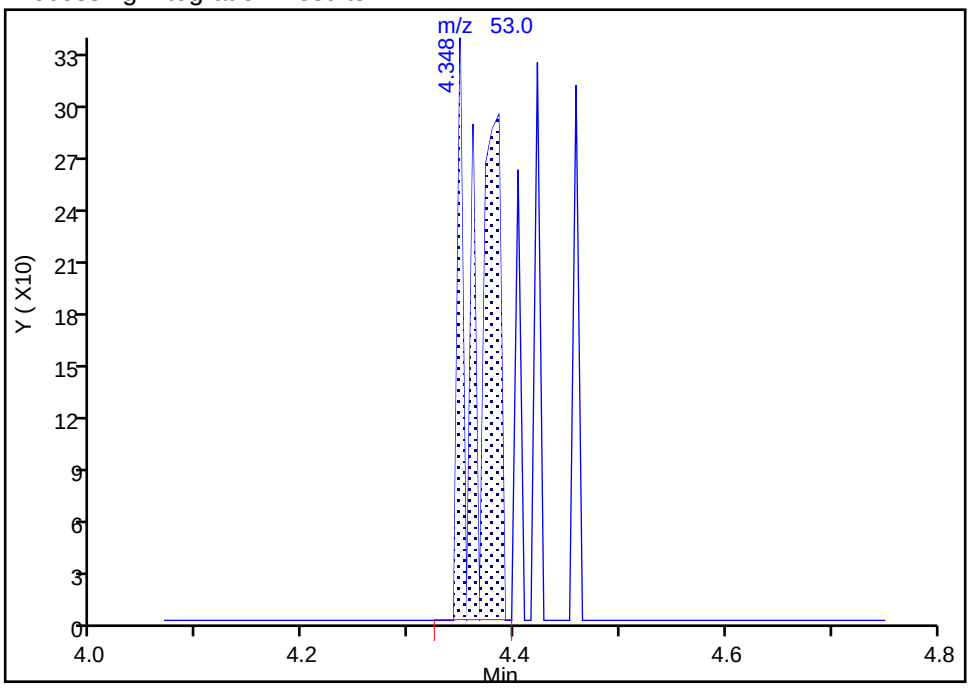
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

31 Acrylonitrile, CAS: 107-13-1

Signal: 1

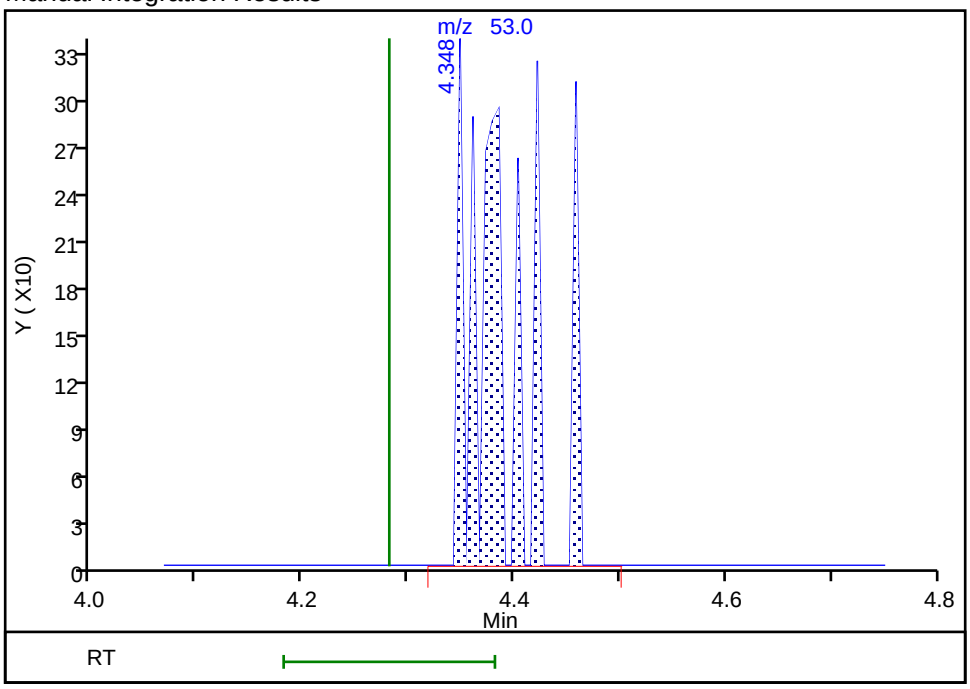
Processing Integration Results

RT: 4.35
Area: 526
Amount: 0.519894
Amount Units: ug/l



Manual Integration Results

RT: 4.35
Area: 847
Amount: 0.119405
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:27:09 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

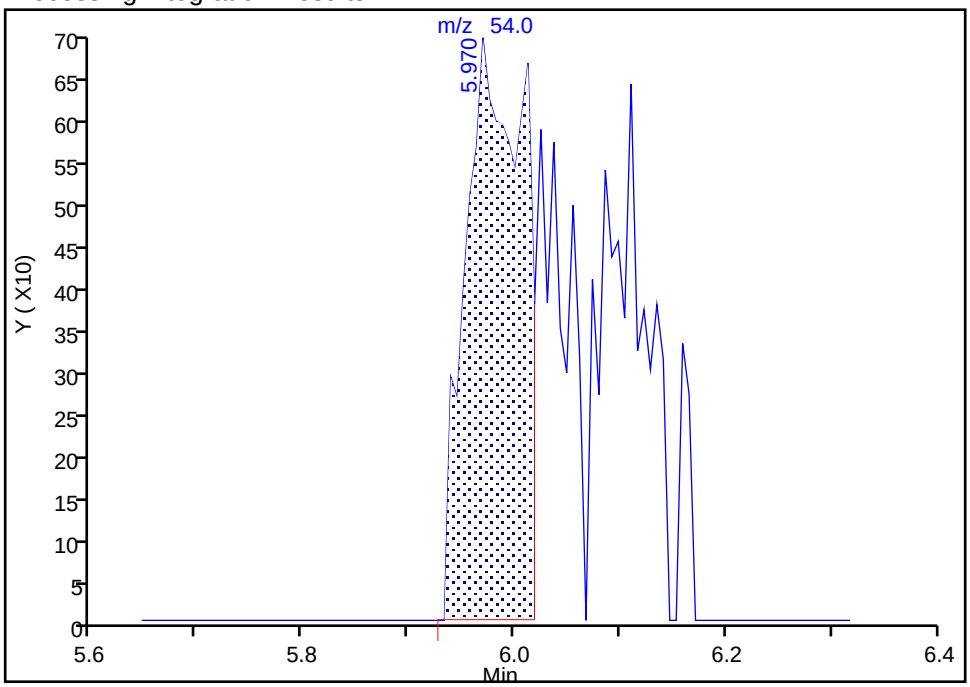
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

44 Propionitrile, CAS: 107-12-0

Signal: 1

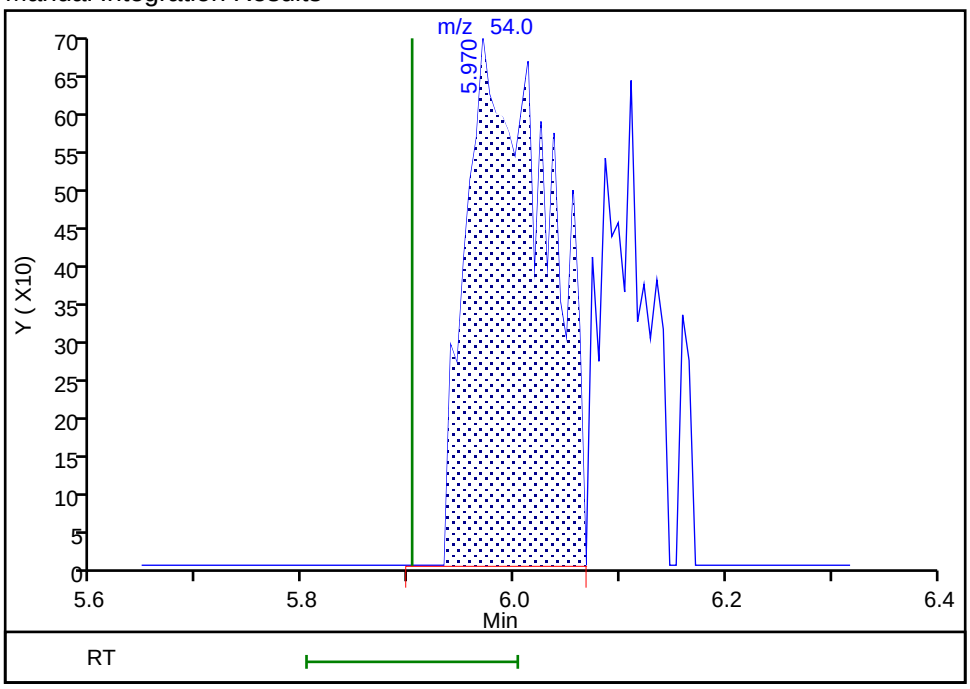
Processing Integration Results

RT: 5.97
Area: 2653
Amount: 5.395871
Amount Units: ug/l



Manual Integration Results

RT: 5.97
Area: 3742
Amount: 5.554378
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:27:19 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

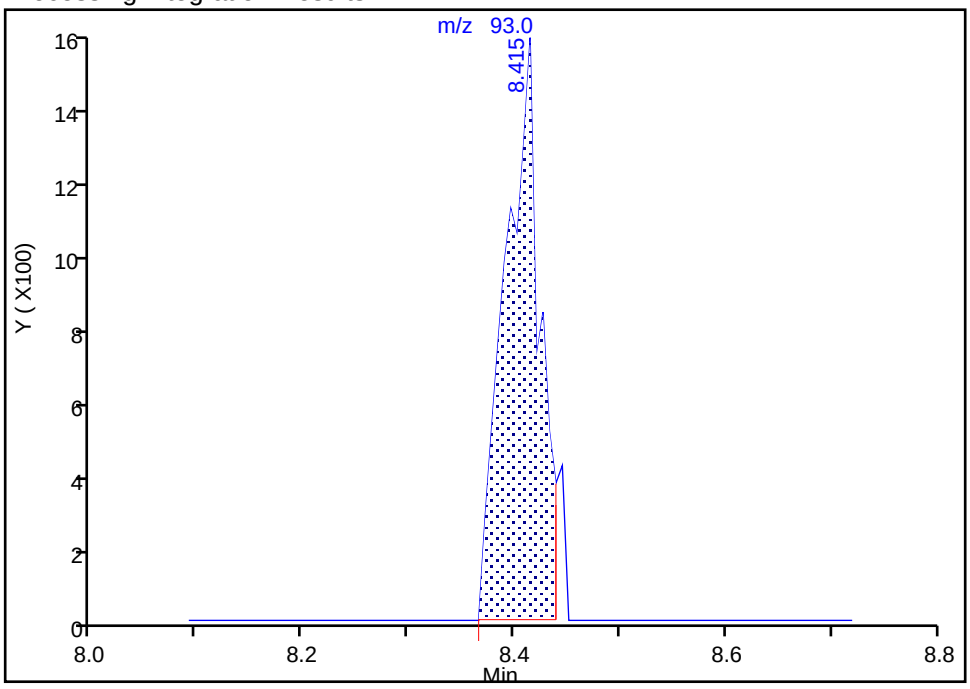
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D				
Injection Date:	17-Jul-2024 17:30:30	Instrument ID:	19094		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

74 Dibromomethane, CAS: 74-95-3

Signal: 1

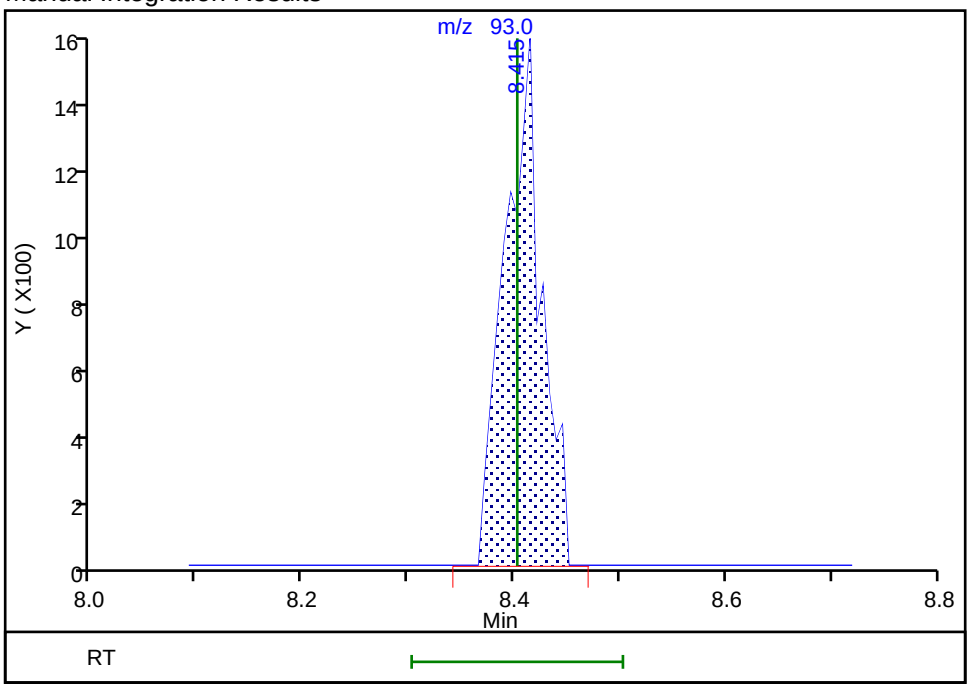
Processing Integration Results

RT: 8.41
Area: 3652
Amount: 0.164259
Amount Units: ug/l



Manual Integration Results

RT: 8.41
Area: 3806
Amount: 0.170343
Amount Units: ug/l



Reviewer: UKEK, 18-Jul-2024 21:02:14 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

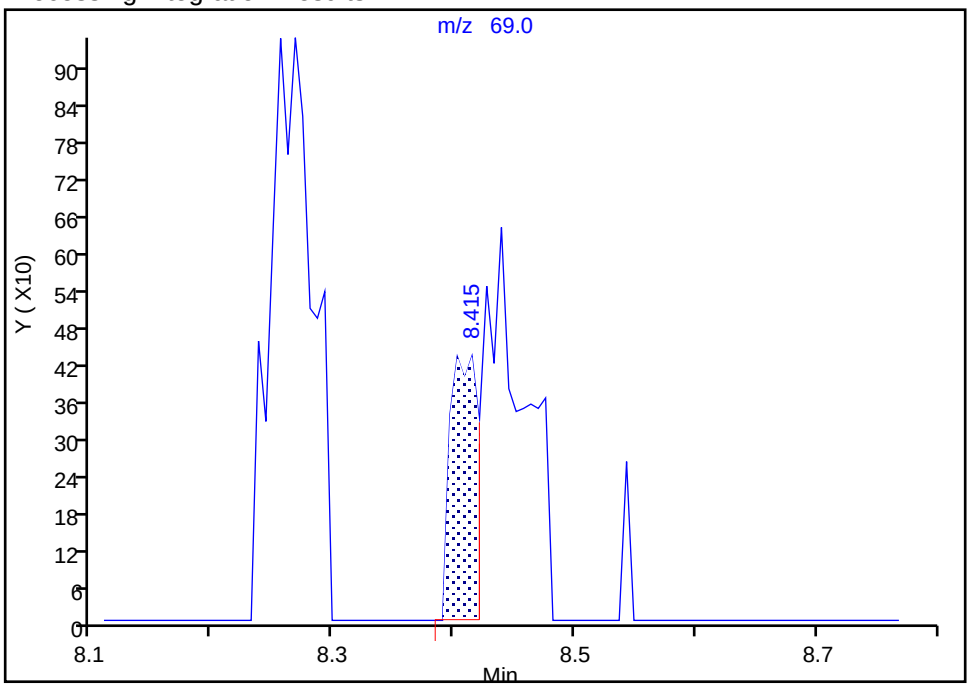
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 Methyl methacrylate, CAS: 80-62-6

Signal: 1

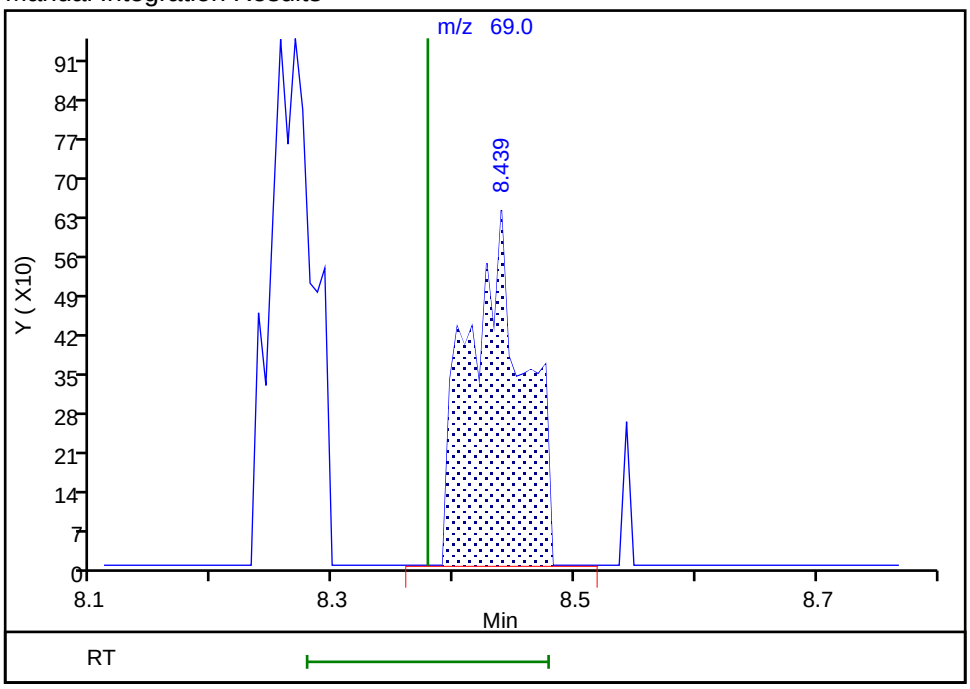
Processing Integration Results

RT: 8.41
Area: 696
Amount: 0.204081
Amount Units: ug/l



Manual Integration Results

RT: 8.44
Area: 2050
Amount: 0.110156
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:27:31 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

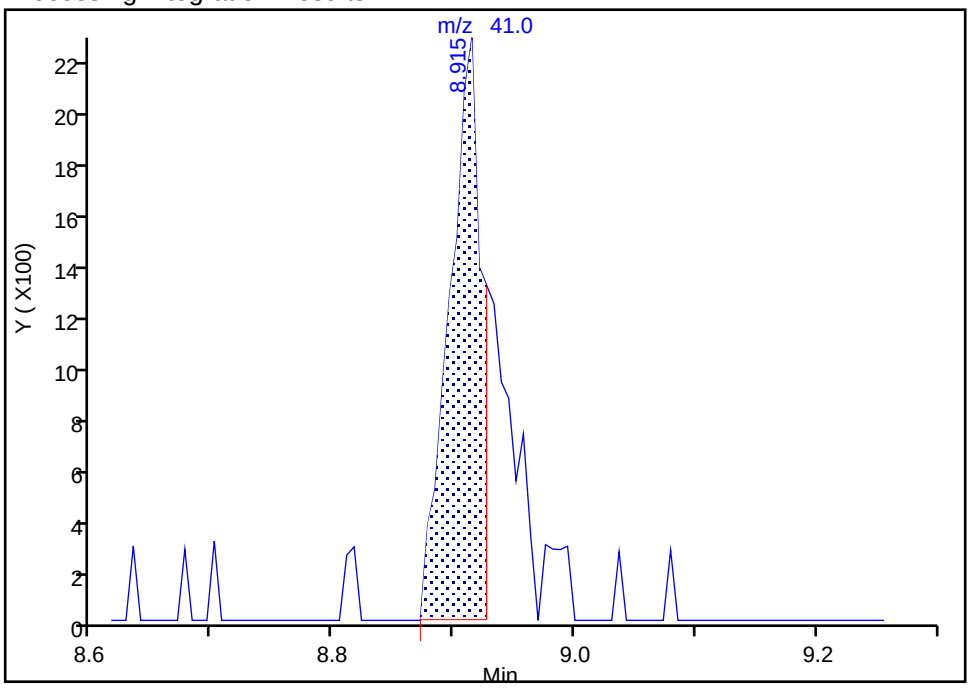
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

77 2-Nitropropane, CAS: 79-46-9

Signal: 1

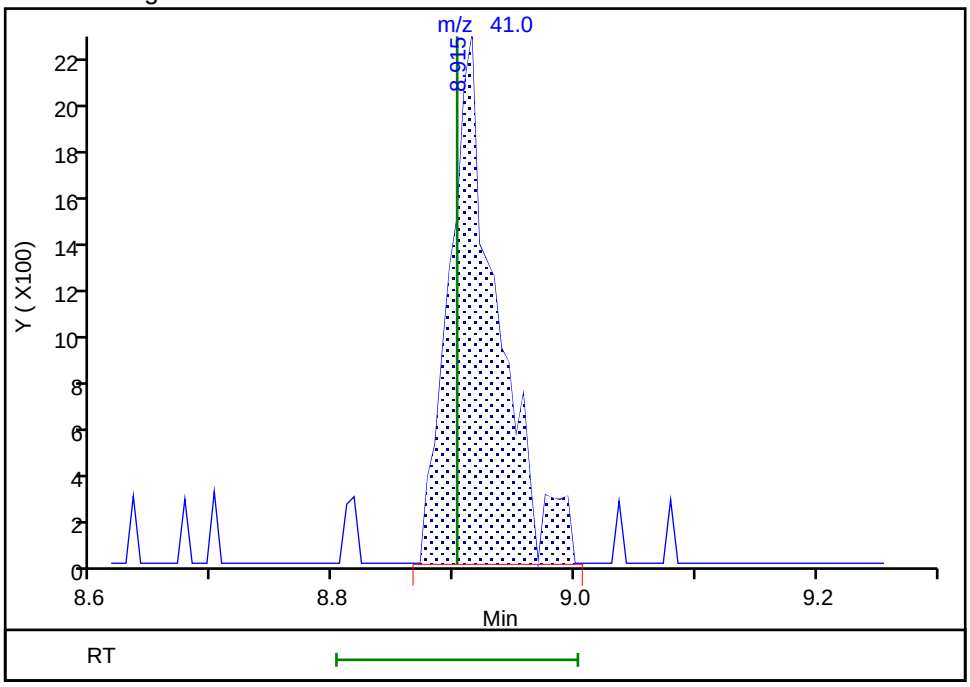
Processing Integration Results

RT: 8.91
Area: 4213
Amount: 0.727283
Amount Units: ug/l



Manual Integration Results

RT: 8.91
Area: 6309
Amount: 1.035583
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:27:44 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

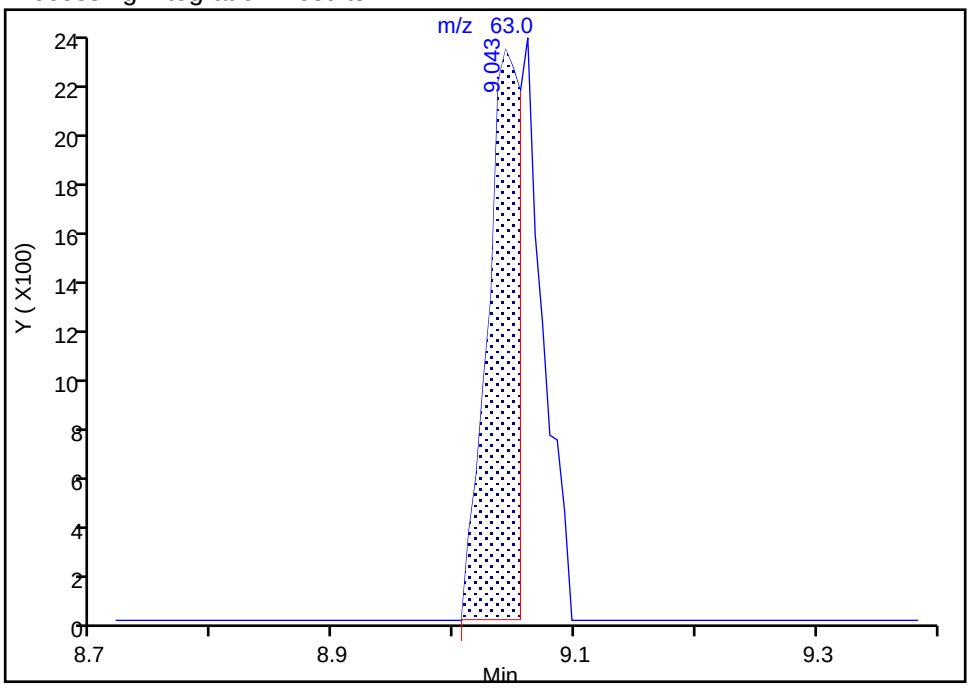
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

79 1-Bromo-2-chloroethane, CAS: 107-04-0

Signal: 1

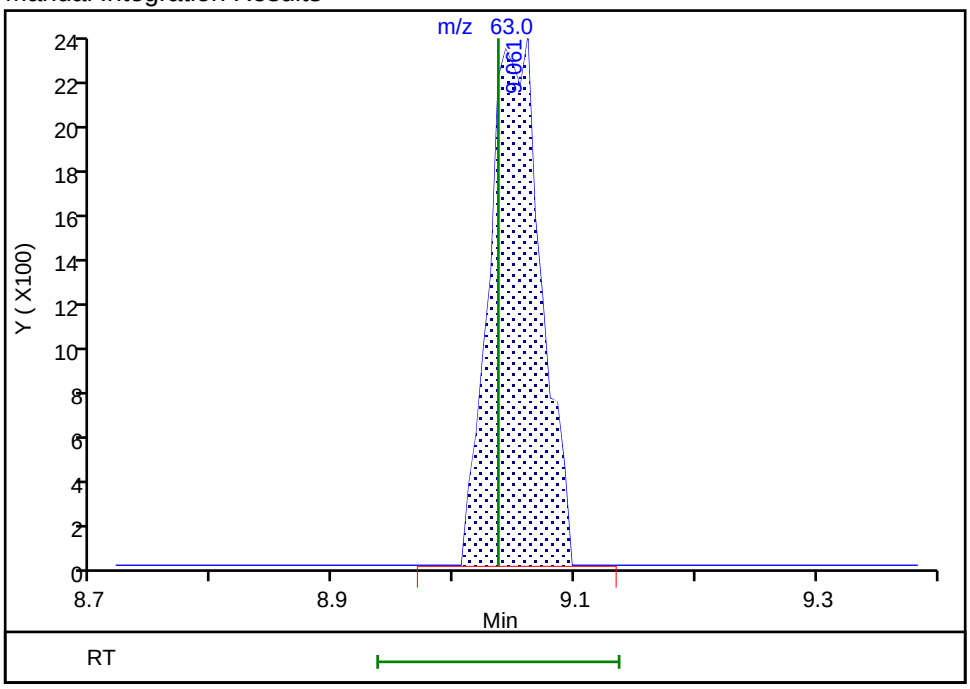
Processing Integration Results

RT: 9.04
Area: 4423
Amount: 0.166689
Amount Units: ug/l



Manual Integration Results

RT: 9.06
Area: 7000
Amount: 0.165523
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:27:41 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

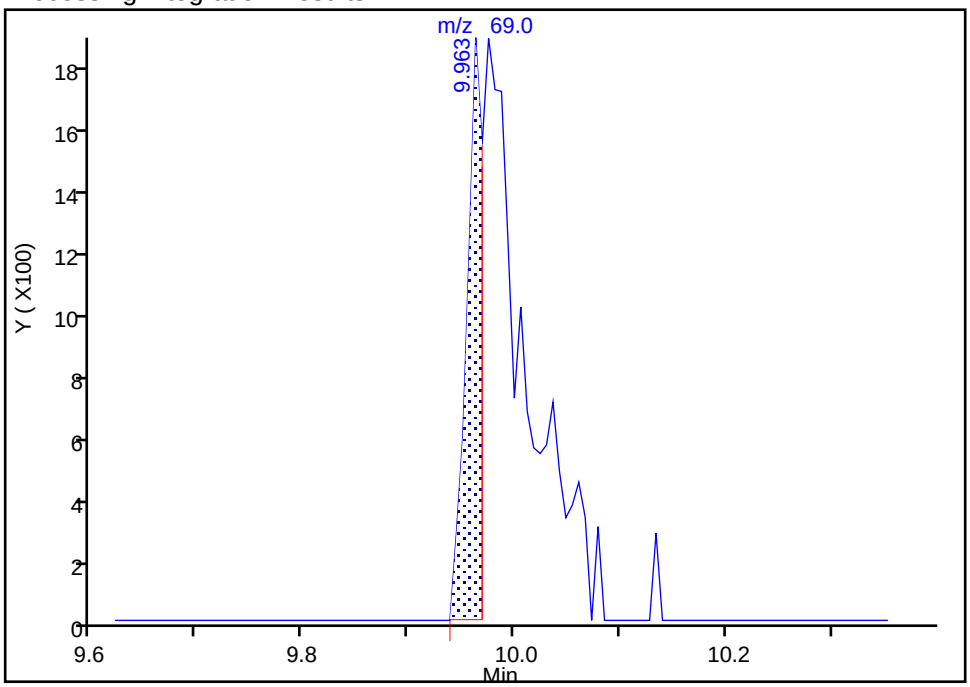
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D				
Injection Date:	17-Jul-2024 17:30:30	Instrument ID:	19094		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

104 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

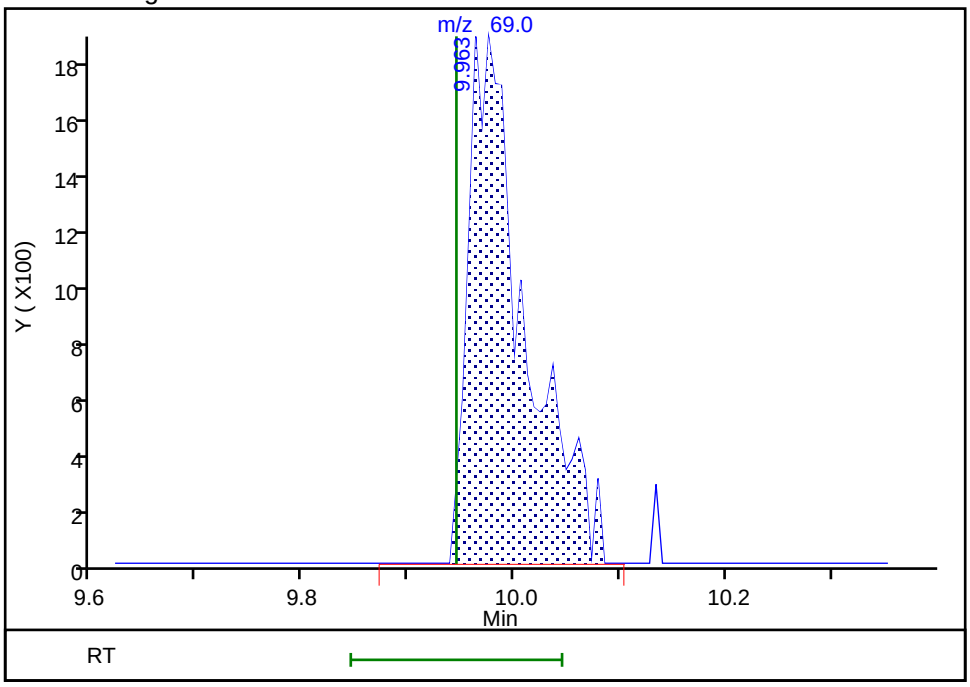
Processing Integration Results

RT: 9.96
Area: 1936
Amount: 0.255030
Amount Units: ug/l



Manual Integration Results

RT: 9.96
Area: 6709
Amount: 0.162290
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:27:51 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

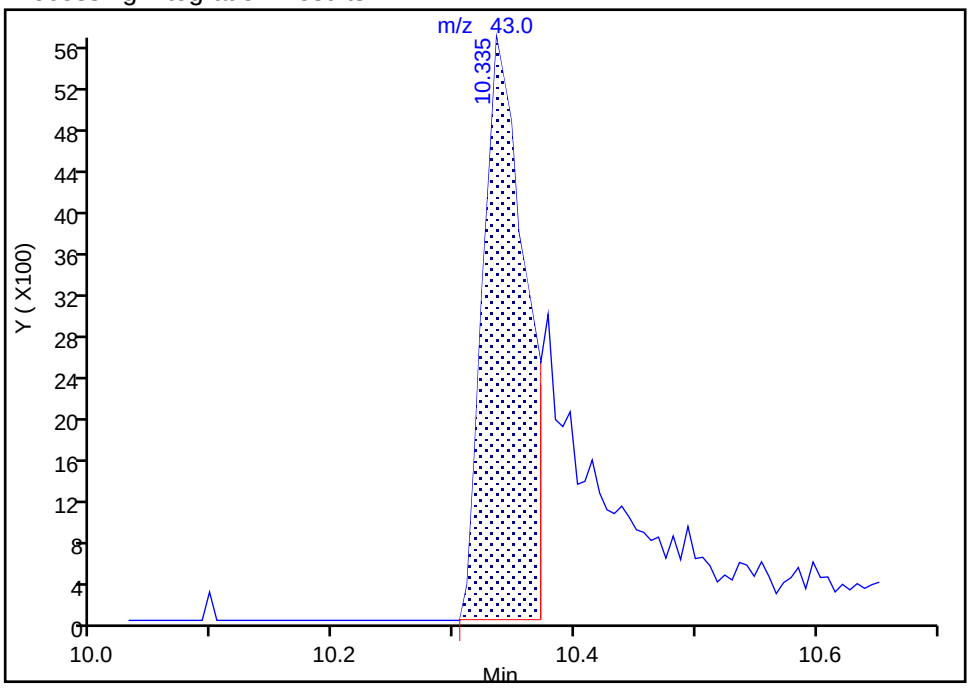
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D				
Injection Date:	17-Jul-2024 17:30:30	Instrument ID:	19094		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

109 2-Hexanone, CAS: 591-78-6

Signal: 1

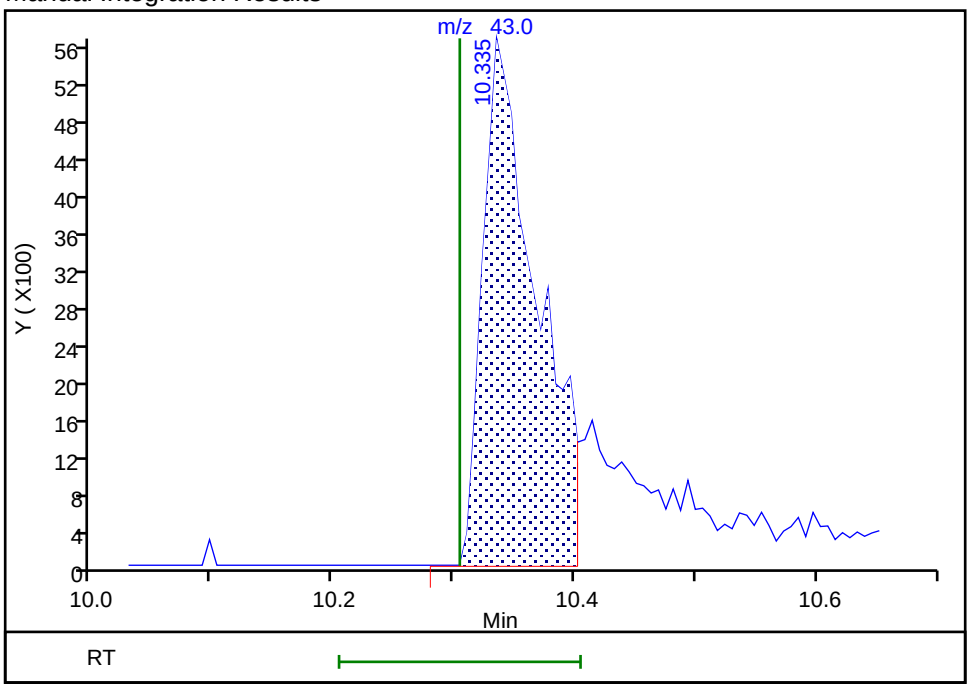
Processing Integration Results

RT: 10.34
Area: 13843
Amount: 2.968670
Amount Units: ug/l



Manual Integration Results

RT: 10.34
Area: 17554
Amount: 1.097769
Amount Units: ug/l



Reviewer: UKEK, 18-Jul-2024 21:48:58 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

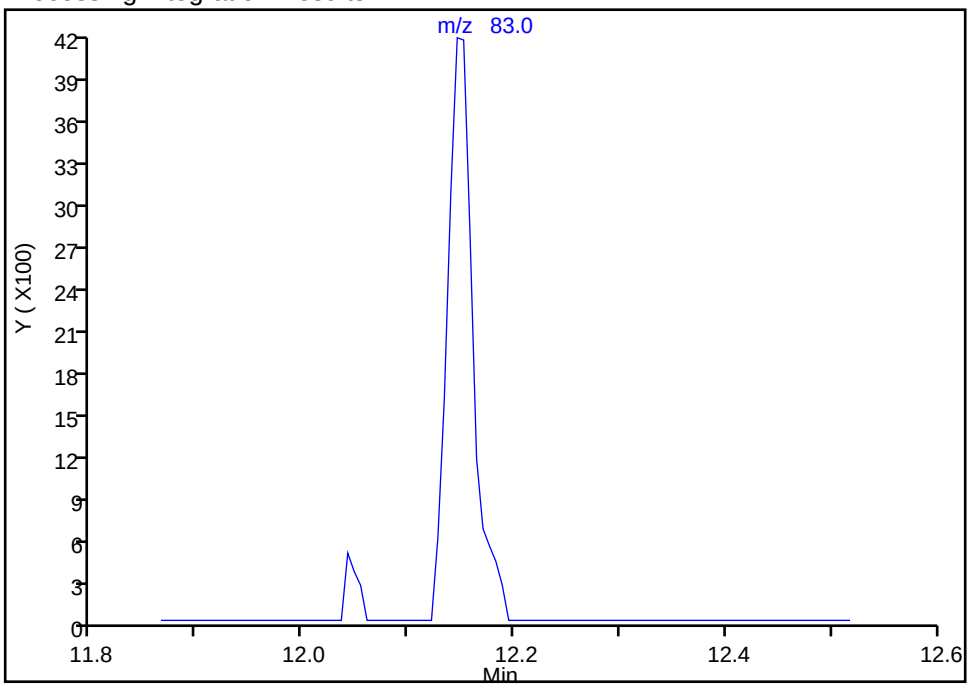
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

127 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

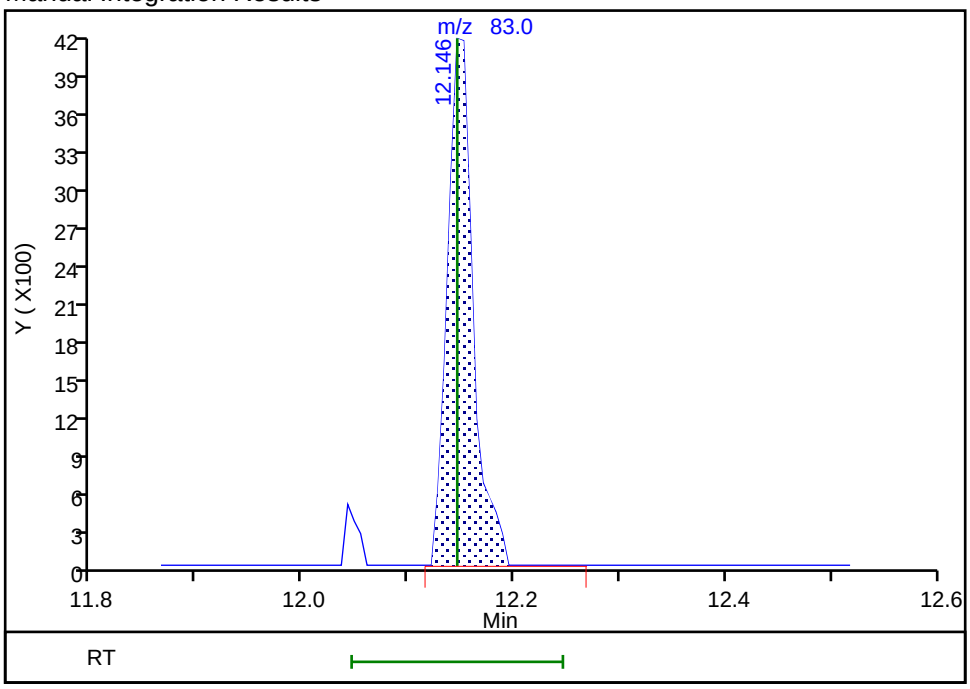
Not Detected
Expected RT: 12.15

Processing Integration Results



Manual Integration Results

RT: 12.15
Area: 7090
Amount: 0.182312
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:26:38 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X13.D
Lims ID: IC std2 0.5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 17-Jul-2024 17:51:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0119602-014
Misc. Info.: IC std2 0.5
Operator ID: knk41612 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jul-2024 22:31:03 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1666

First Level Reviewer: DVW2 Date: 18-Jul-2024 08:26:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.873	1.879	-0.006	51	26885	0.5000	0.5123	
5 Chloromethane	50	2.068	2.074	-0.006	99	32575	0.5000	0.4971	
7 Butadiene	39	2.160	2.166	-0.006	90	25928	0.5000	0.4623	
6 Vinyl chloride	62	2.172	2.178	-0.006	98	29955	0.5000	0.4989	
9 Bromomethane	94	2.501	2.513	-0.012	90	19960	0.5000	0.4744	
10 Chloroethane	64	2.544	2.550	-0.006	71	17413	0.5000	0.4950	
11 Dichlorofluoromethane	67	2.757	2.769	-0.012	97	46614	0.5000	0.4818	
12 Trichlorofluoromethane	101	2.788	2.867	-0.079	92	36023	0.5000	0.4984	
14 Ethyl ether	59	3.050	3.056	-0.006	89	13110	0.4999	0.4811	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.123	3.135	-0.012	87	26460	0.5000	0.4927	
16 Acrolein	56	3.227	3.215	0.013	99	95690	25.1	22.2	
17 1,1-Dichloroethene	96	3.343	3.349	-0.006	98	18076	0.5000	0.4855	
19 Acetone	43	3.391	3.367	0.024	90	23832	5.00	4.41	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.373	3.391	-0.018	91	17239	0.5000	0.4709	
21 Iodomethane	142	3.525	3.532	-0.007	99	35150	0.5000	0.4756	
22 Ethyl bromide	108	3.556	3.556	0.000	98	16513	0.5009	0.4990	
23 Carbon disulfide	76	3.641	3.635	0.006	99	52314	0.5000	0.4932	
24 Methyl acetate	43	3.806	3.769	0.037	24	8380	0.5000	0.5723	M
26 3-Chloro-1-propene	41	3.788	3.788	0.000	91	30519	0.5000	0.4712	
27 Methylene Chloride	84	3.964	3.964	0.000	86	22554	0.5000	0.4866	
* 28 t-Butyl alcohol-d10 (IS)	65	3.958	3.983	-0.025	84	101542	50.0	50.0	
29 2-Methyl-2-propanol	59	4.068	4.080	-0.012	67	14295	10.0	9.62	
31 Acrylonitrile	53	4.367	4.281	0.086	23	5722	1.25	0.7817	M
32 Methyl tert-butyl ether	73	4.342	4.348	-0.006	95	49418	0.5000	0.4833	
33 trans-1,2-Dichloroethene	96	4.355	4.361	-0.006	98	20498	0.5000	0.4710	
34 Hexane	57	4.769	4.787	-0.018	94	24651	0.5000	0.4800	
36 1,1-Dichloroethane	63	5.013	5.013	0.000	95	39649	0.5000	0.4767	
37 Isopropyl ether	45	5.074	5.074	0.000	94	65281	0.5000	0.4759	
38 2-Chloro-1,3-butadiene	53	5.135	5.129	0.006	91	29250	0.5000	0.4450	
40 Tert-butyl ethyl ether	59	5.604	5.616	-0.012	98	59901	0.5000	0.4697	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.860	5.824	0.036	73	38427	5.00	4.31	
42 cis-1,2-Dichloroethene	96	5.854	5.854	0.000	83	23403	0.5000	0.4722	
43 2,2-Dichloropropane	77	5.867	5.866	0.000	67	33367	0.5000	0.4833	
44 Propionitrile	54	5.952	5.903	0.049	98	14411	10.0	9.33	
47 Methacrylonitrile	67	6.135	6.122	0.013	91	45314	5.00	4.43	
S 46 1,2-Dichloroethene, Total	100				0			0.9432	
48 Chlorobromomethane	128	6.196	6.190	0.006	93	9734	0.5000	0.4648	
49 Tetrahydrofuran	71	6.220	6.208	0.012	78	5763	2.50	2.19	
50 Chloroform	83	6.336	6.342	-0.006	93	39062	0.5000	0.4732	
$ 52 Dibromofluoromethane (Surr)	113	6.561	6.561	0.000	94	503731	10.0	9.97	
53 1,1,1-Trichloroethane	97	6.568	6.574	-0.006	48	33285	0.5000	0.4728	
54 Cyclohexane	56	6.671	6.677	-0.006	91	34562	0.5000	0.4956	
56 Carbon tetrachloride	117	6.781	6.787	-0.006	91	28843	0.5000	0.4702	
55 1,1-Dichloropropene	75	6.793	6.793	0.000	94	29310	0.5000	0.4678	
57 Isobutyl alcohol	41	6.964	6.945	0.019	90	11688	25.0	24.5	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.025	-0.006	81	104077	10.0	10.1	
59 Benzene	78	7.055	7.055	0.000	95	88920	0.5000	0.4681	
60 1,2-Dichloroethane	62	7.122	7.128	-0.006	96	24189	0.5000	0.4845	
63 Tert-amyl methyl ether	73	7.250	7.256	-0.006	98	52534	0.5000	0.4667	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2062328	10.0	10.0	
65 n-Heptane	43	7.488	7.482	0.006	92	26119	0.5000	0.4978	
67 n-Butanol	56	7.921	7.848	0.073	22	7780	43.8	56.2	M
68 Trichloroethene	95	7.958	7.957	0.001	98	24013	0.5000	0.4800	
69 Methylcyclohexane	83	8.268	8.268	0.000	90	34255	0.5000	0.4833	
70 1,2-Dichloropropane	63	8.293	8.287	0.006	91	22332	0.5000	0.4654	
71 2-ethoxy-2-methyl butane	87	8.305	8.305	0.000	94	32429	0.5000	0.4602	
72 Methyl methacrylate	69	8.415	8.378	0.037	70	6527	0.5000	0.3399	
73 1,4-Dioxane	88	8.396	8.390	0.006	28	589	25.0	30.3	M
74 Dibromomethane	93	8.403	8.403	0.000	97	10776	0.5000	0.4831	
76 Dichlorobromomethane	83	8.640	8.634	0.006	99	27688	0.5000	0.4773	
77 2-Nitropropane	41	8.909	8.902	0.007	97	14486	2.50	2.30	
79 1-Bromo-2-chloroethane	63	9.043	9.037	0.006	97	20534	0.5000	0.4863	
80 cis-1,3-Dichloropropene	75	9.213	9.201	0.012	95	31561	0.5000	0.4468	
82 4-Methyl-2-pentanone (MIBK)	43	9.390	9.384	0.006	97	111439	5.00	4.47	
$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	93	2010119	10.0	9.96	
84 Toluene	92	9.610	9.604	0.006	97	56769	0.5000	0.4629	
85 trans-1,3-Dichloropropene	75	9.890	9.872	0.018	93	25343	0.5000	0.4431	
104 Ethyl methacrylate	69	9.957	9.945	0.012	91	16157	0.5000	0.3907	
S 105 1,3-Dichloropropene, Total	100				0			0.8898	
106 1,1,2-Trichloroethane	97	10.085	10.085	0.000	90	15332	0.5000	0.4703	
107 Tetrachloroethene	166	10.177	10.177	0.000	98	26882	0.5000	0.4717	
108 1,3-Dichloropropane	76	10.256	10.250	0.006	91	25437	0.5000	0.4590	
109 2-Hexanone	43	10.323	10.305	0.018	98	62545	5.00	3.79	
111 Chlorodibromomethane	129	10.475	10.469	0.006	89	18118	0.5000	0.4501	
112 Ethylene Dibromide	107	10.591	10.585	0.006	99	13881	0.5000	0.4580	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	88	1551422	10.0	10.0	
114 1-Chlorohexane	91	11.042	11.036	0.006	90	33028	0.5000	0.4828	
115 Chlorobenzene	112	11.055	11.054	0.000	97	62292	0.5000	0.4624	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	95	21272	0.5000	0.4516	
117 Ethylbenzene	91	11.146	11.140	0.006	99	111205	0.5000	0.4674	
S 118 Xylenes, Total	106				0			1.40	
119 m-Xylene & p-Xylene	106	11.262	11.262	0.000	100	83022	1.00	0.9188	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 o-Xylene	106	11.597	11.591	0.006	96	42571	0.5000	0.4775	
121 Styrene	104	11.615	11.609	0.006	95	60431	0.5000	0.4373	
122 Bromoform	173	11.768	11.768	0.000	93	11036	0.5000	0.4367	
123 Isopropylbenzene	105	11.896	11.896	0.000	96	98516	0.5000	0.4581	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	92	751834	10.0	9.98	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.146	0.000	93	18015	0.5000	0.4635	
128 Bromobenzene	156	12.158	12.158	0.000	95	26744	0.5000	0.4728	
129 trans-1,4-Dichloro-2-butene	53	12.176	12.170	0.006	93	44616	5.00	4.46	
130 1,2,3-Trichloropropane	110	12.195	12.188	0.007	79	4234	0.5000	0.4208	
131 N-Propylbenzene	91	12.231	12.231	0.000	99	124947	0.5000	0.4621	
132 2-Chlorotoluene	126	12.310	12.304	0.006	97	25865	0.5000	0.4670	
133 1,3,5-Trimethylbenzene	105	12.371	12.365	0.006	94	86372	0.5000	0.4543	
134 4-Chlorotoluene	126	12.408	12.396	0.012	96	25919	0.5000	0.4624	
135 tert-Butylbenzene	134	12.609	12.609	0.000	93	19782	0.5000	0.4654	
136 Pentachloroethane	167	12.646	12.640	0.006	81	13457	0.5000	0.4546	
137 1,2,4-Trimethylbenzene	105	12.658	12.652	0.006	97	86299	0.5000	0.4535	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	108808	0.5000	0.4634	
139 1,3-Dichlorobenzene	146	12.877	12.871	0.006	98	48221	0.5000	0.4513	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	90589	0.5000	0.4472	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	858934	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.950	12.950	0.000	95	52746	0.5000	0.4774	
143 1,2,3-Trimethylbenzene	120	12.957	12.957	0.000	94	40918	0.5000	0.4752	
144 Benzyl chloride	126	13.030	13.024	0.006	99	6041	0.5000	0.4045	
145 p-Diethylbenzene	119	13.158	13.158	0.000	95	53048	0.5000	0.4488	
146 n-Butylbenzene	92	13.182	13.176	0.006	97	38611	0.5000	0.4169	M
147 1,2-Dichlorobenzene	146	13.213	13.206	0.007	98	46477	0.5000	0.4757	
149 1,2-Dibromo-3-Chloropropane	155	13.773	13.755	0.018	80	1908	0.5000	0.3682	
150 1,3,5-Trichlorobenzene	180	13.889	13.877	0.012	97	33284	0.5000	0.4557	
151 1,2,4-Trichlorobenzene	180	14.310	14.304	0.006	95	24976	0.5000	0.4375	
152 Hexachlorobutadiene	225	14.389	14.383	0.006	95	10248	0.5000	0.4755	
153 Naphthalene	128	14.493	14.481	0.012	97	36332	0.5000	0.3791	
154 1,2,3-Trichlorobenzene	180	14.633	14.621	0.012	95	18601	0.5000	0.4047	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00137	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00220	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00144	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00012	Amount Added:	5.00	Units: uL	Run Reagent

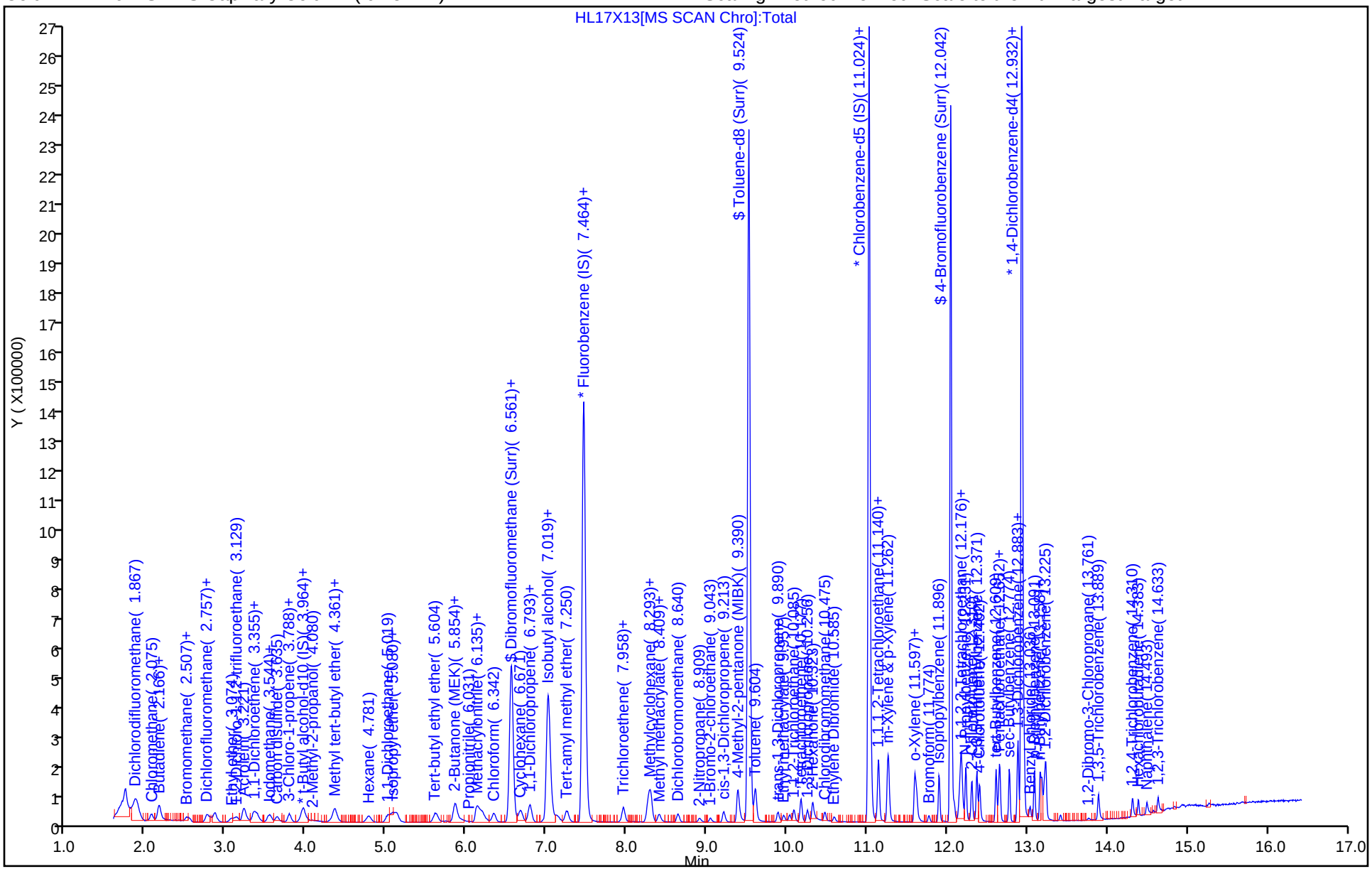
Report Date: 18-Jul-2024 22:31:04 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X13.D

Injection Date:	17-Jul-2024 17:51:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	IC std2 0.5			Worklist Smp#:	14
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSV_19094_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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

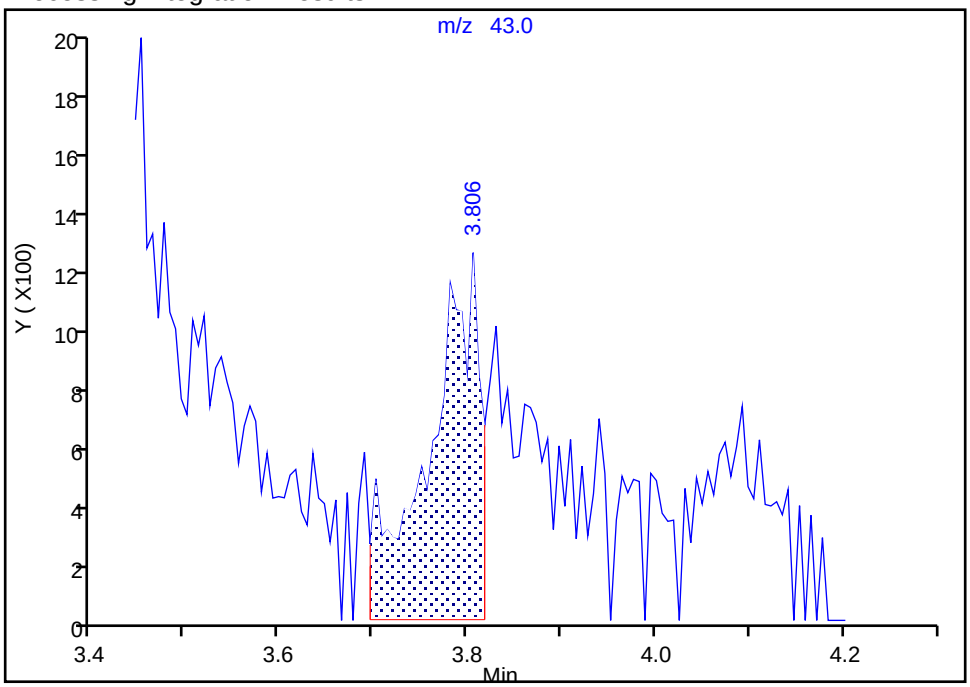
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X13.D				
Injection Date:	17-Jul-2024 17:51:30	Instrument ID:	19094		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Methyl acetate, CAS: 79-20-9

Signal: 1

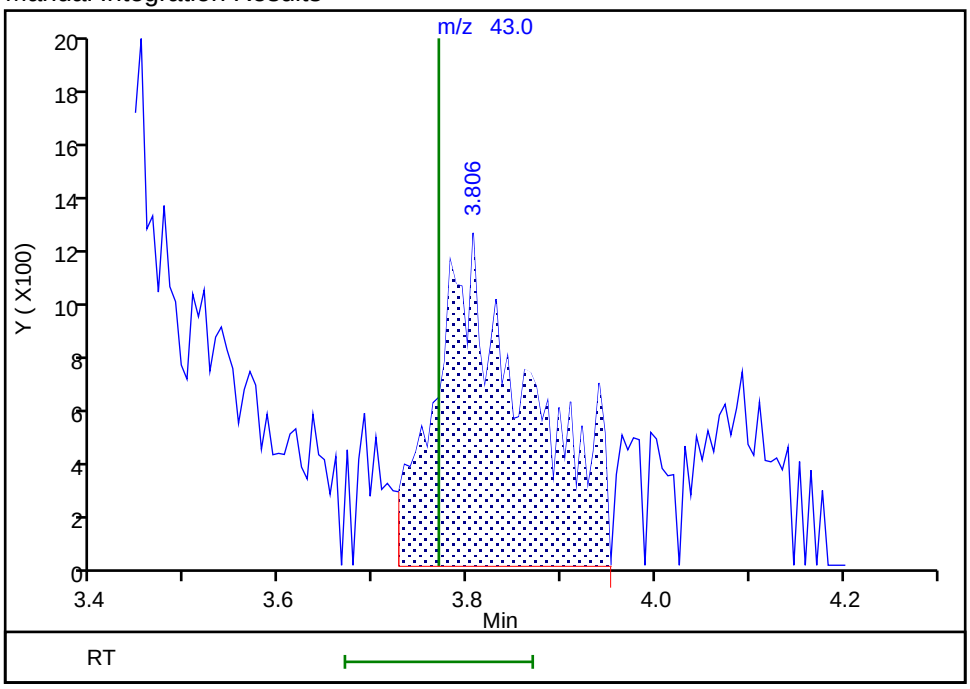
Processing Integration Results

RT: 3.81
Area: 4578
Amount: 0.456145
Amount Units: ug/l



Manual Integration Results

RT: 3.81
Area: 8380
Amount: 0.572302
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:24:49 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

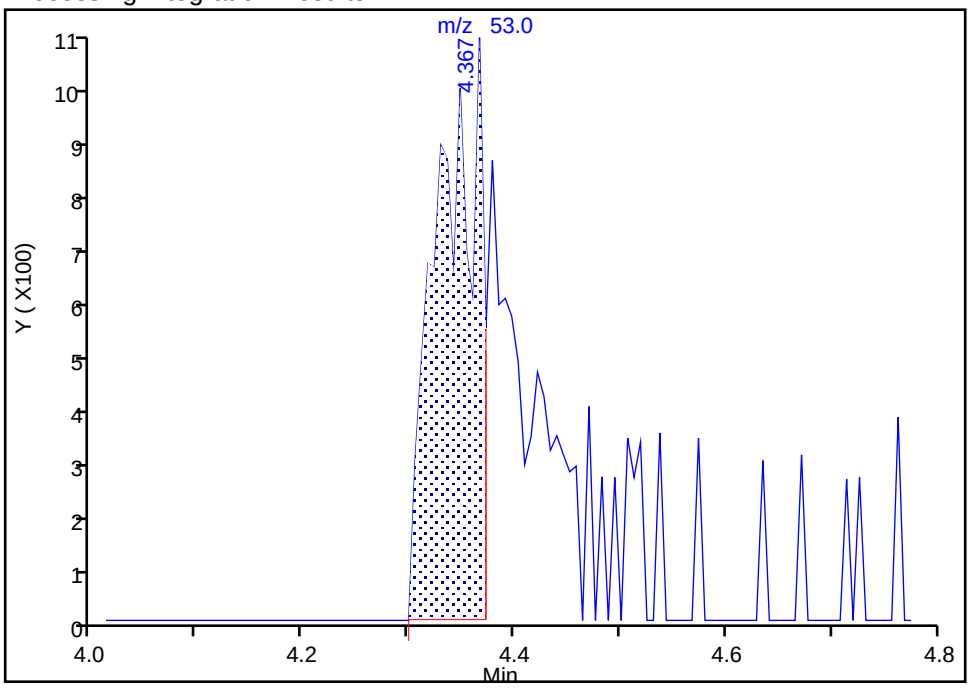
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X13.D
Injection Date: 17-Jul-2024 17:51:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

31 Acrylonitrile, CAS: 107-13-1

Signal: 1

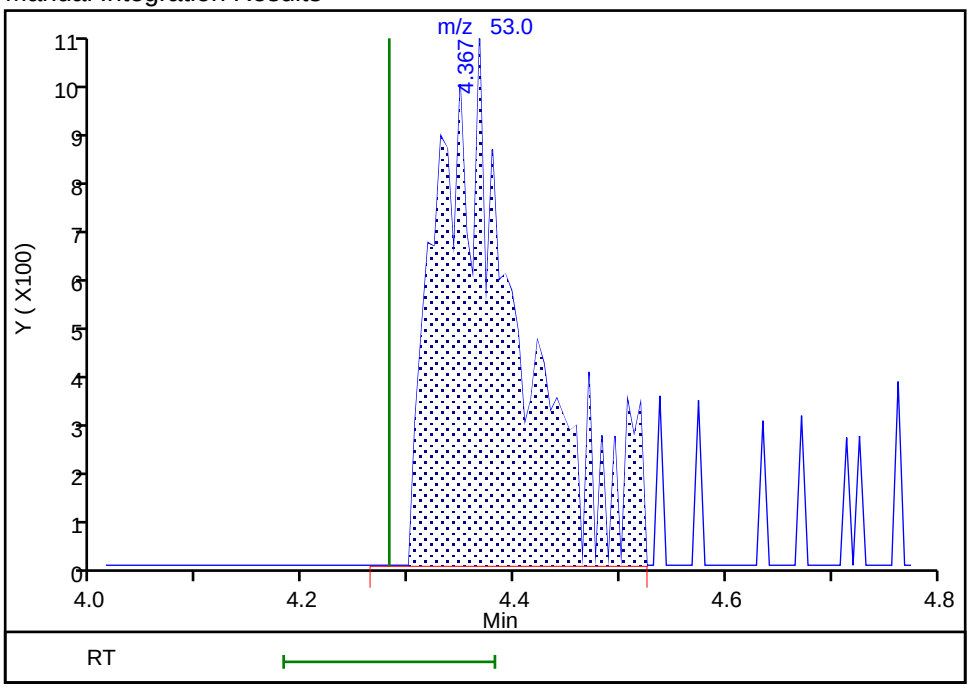
Processing Integration Results

RT: 4.37
Area: 2928
Amount: 0.962641
Amount Units: ug/l



Manual Integration Results

RT: 4.37
Area: 5722
Amount: 0.781731
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:24:58 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

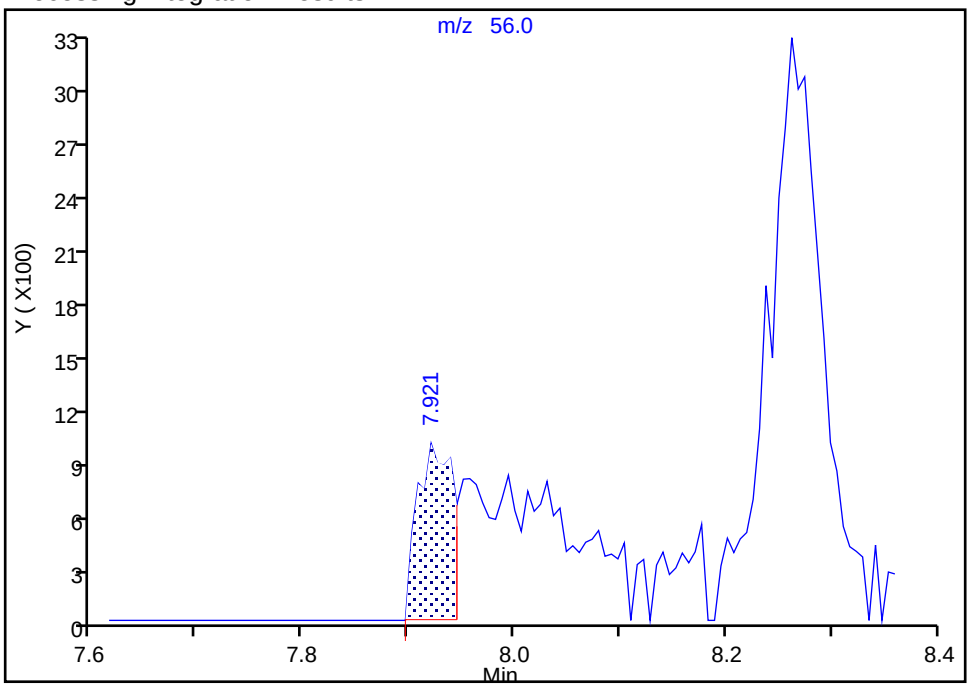
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X13.D
Injection Date: 17-Jul-2024 17:51:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

67 n-Butanol, CAS: 71-36-3

Signal: 1

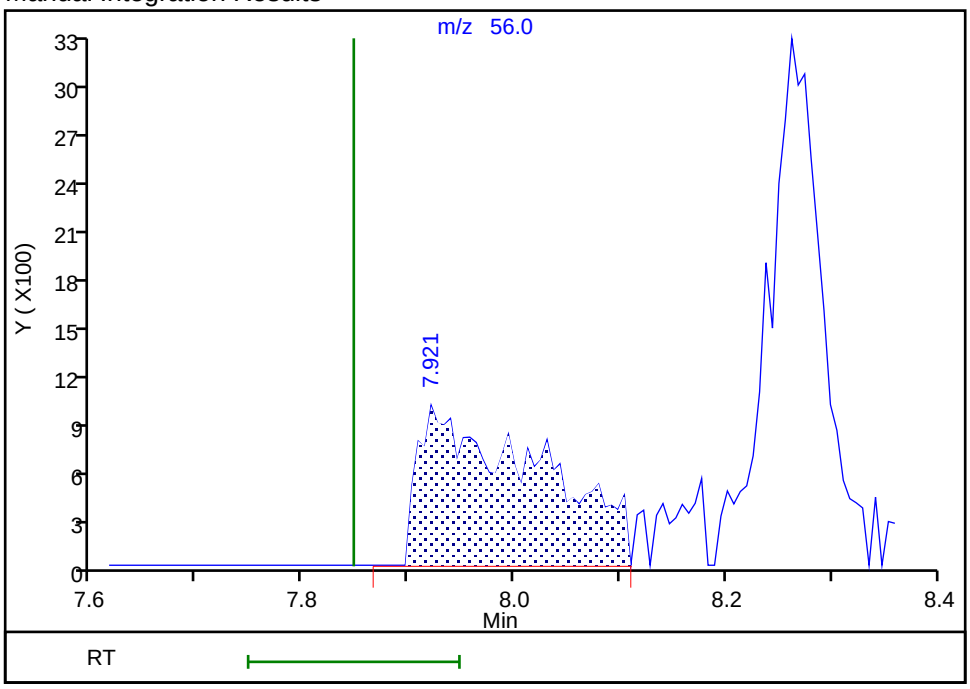
Processing Integration Results

RT: 7.92
Area: 2317
Amount: 47.208488
Amount Units: ug/l



Manual Integration Results

RT: 7.92
Area: 7780
Amount: 56.154868
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:25:15 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

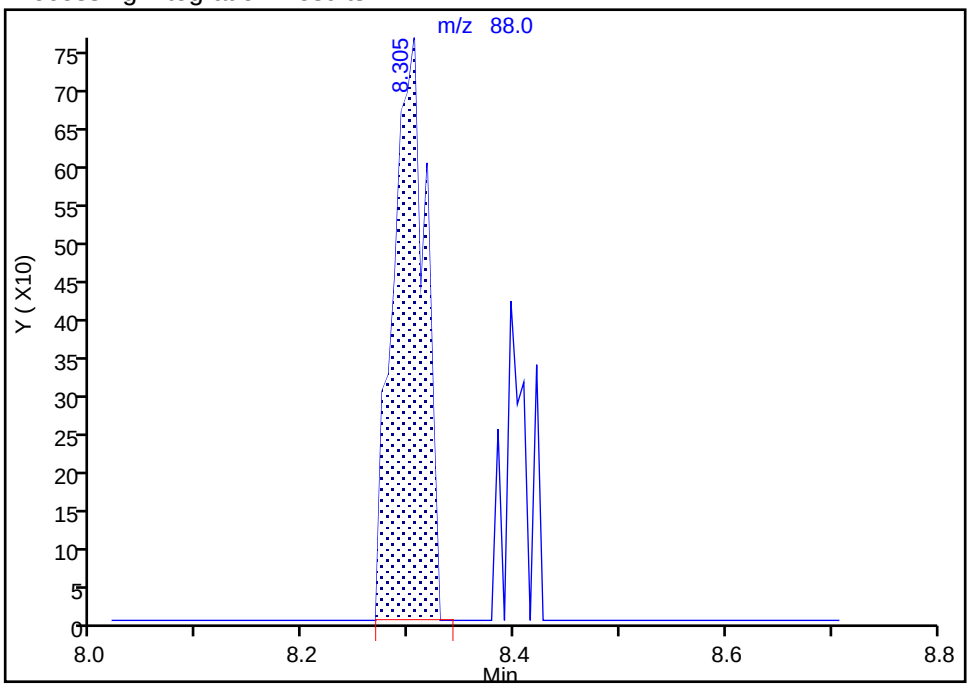
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X13.D
Injection Date: 17-Jul-2024 17:51:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

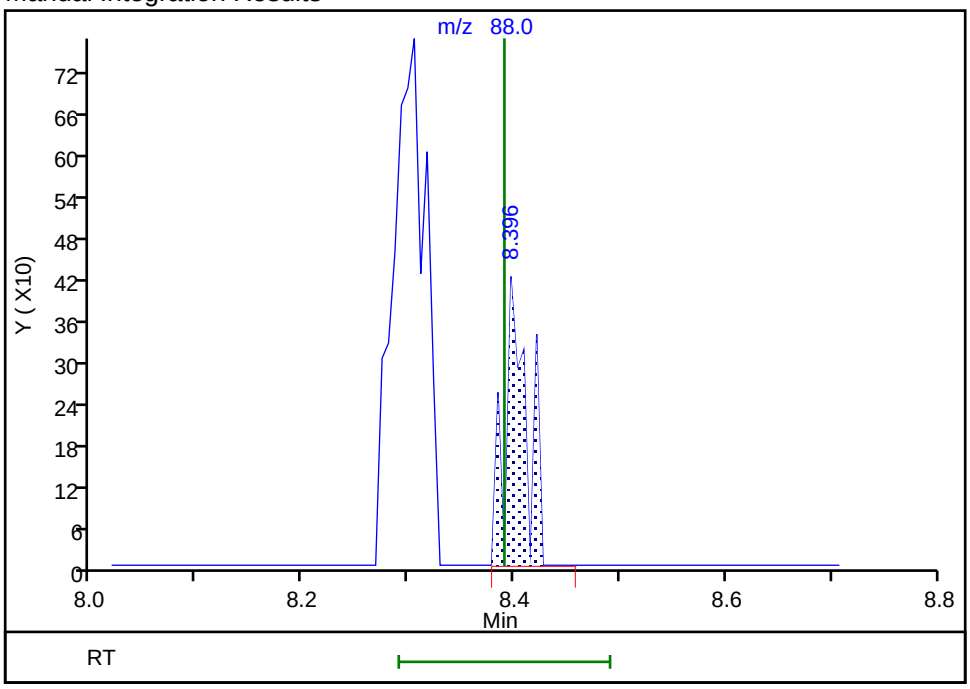
Processing Integration Results

RT: 8.31
Area: 1652
Amount: 24.966844
Amount Units: ug/l



Manual Integration Results

RT: 8.40
Area: 589
Amount: 30.302513
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:25:57 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

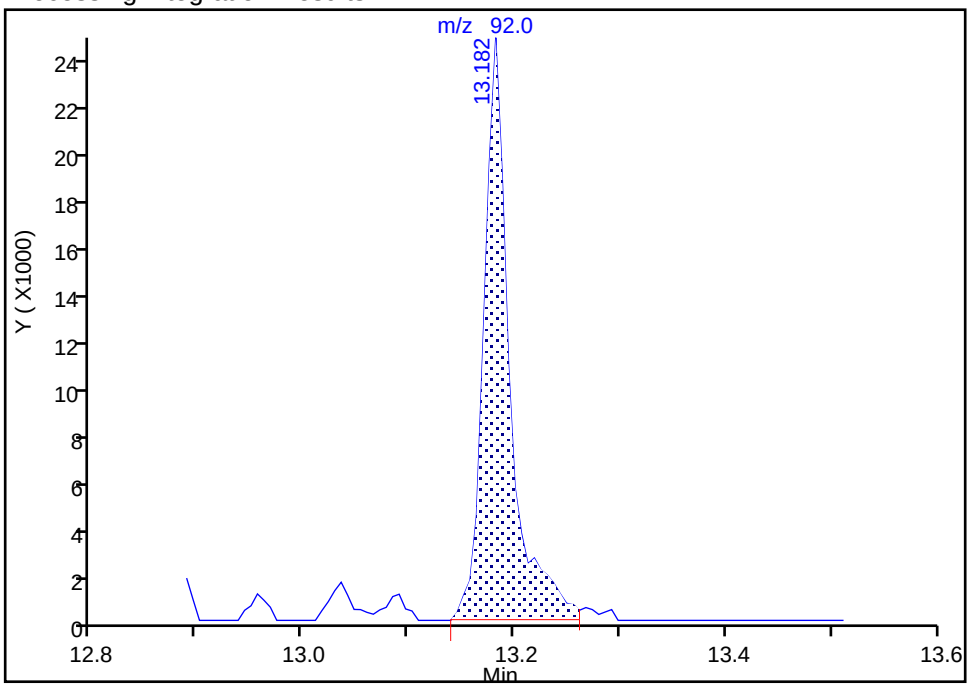
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X13.D				
Injection Date:	17-Jul-2024 17:51:30	Instrument ID:	19094		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

146 n-Butylbenzene, CAS: 104-51-8

Signal: 1

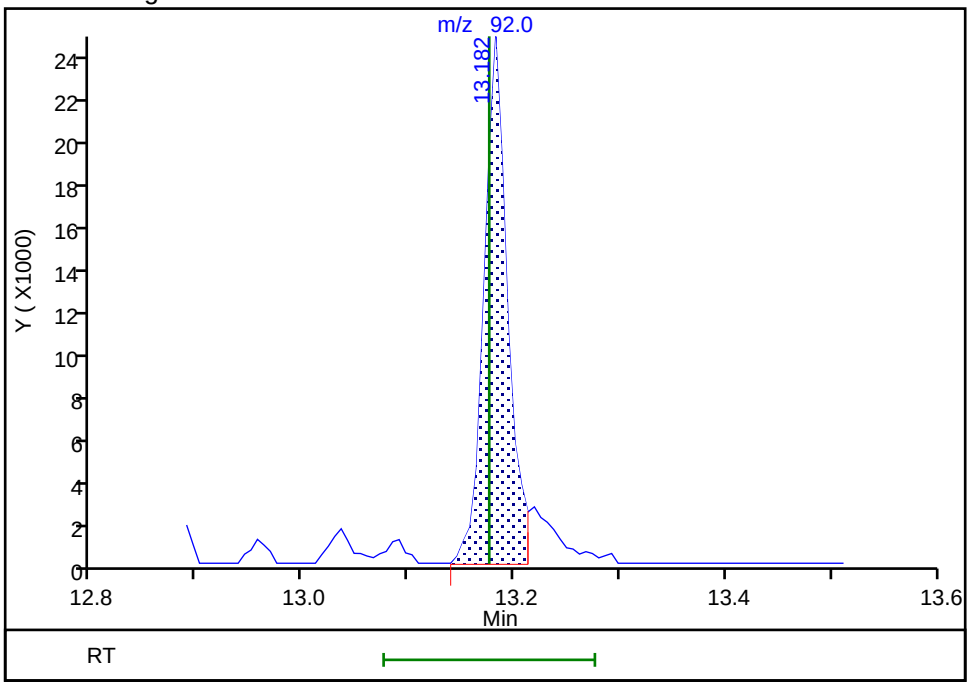
Processing Integration Results

RT: 13.18
Area: 42769
Amount: 0.455897
Amount Units: ug/l



Manual Integration Results

RT: 13.18
Area: 38611
Amount: 0.416854
Amount Units: ug/l



Reviewer: UKEK, 18-Jul-2024 21:30:29 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X14.D
Lims ID: IC std3 1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 17-Jul-2024 18:12:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0119602-015
Misc. Info.: IC std3 1
Operator ID: knk41612 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jul-2024 22:31:19 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1666

First Level Reviewer: DVW2 Date: 18-Jul-2024 08:24:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.867	1.879	-0.012	68	55411	1.00	1.04	
5 Chloromethane	50	2.068	2.074	-0.006	99	63839	1.00	0.9602	
7 Butadiene	39	2.154	2.166	-0.012	91	53326	1.00	0.9372	
6 Vinyl chloride	62	2.166	2.178	-0.012	98	62326	1.00	1.02	
9 Bromomethane	94	2.501	2.513	-0.012	91	42344	1.00	0.99	
10 Chloroethane	64	2.538	2.550	-0.012	99	35519	1.00	1.00	
11 Dichlorofluoromethane	67	2.757	2.769	-0.012	97	98322	1.00	1.00	
12 Trichlorofluoromethane	101	2.775	2.867	-0.092	56	76358	1.00	1.04	
14 Ethyl ether	59	3.056	3.056	0.000	88	28630	1.00	1.04	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.129	3.135	-0.006	95	55610	1.00	1.02	
16 Acrolein	56	3.214	3.215	0.000	100	210009	50.1	48.4	
17 1,1-Dichloroethene	96	3.336	3.349	-0.013	97	35938	1.00	0.9515	
19 Acetone	43	3.379	3.367	0.012	94	53263	10.0	9.80	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.373	3.391	-0.018	91	39060	1.00	1.05	
21 Iodomethane	142	3.525	3.532	-0.007	98	74851	1.00	1.00	
22 Ethyl bromide	108	3.556	3.556	0.000	98	34911	1.00	1.04	
23 Carbon disulfide	76	3.635	3.635	0.000	99	110507	1.00	1.03	
24 Methyl acetate	43	3.794	3.769	0.025	26	13056	1.00	0.8866	
26 3-Chloro-1-propene	41	3.787	3.788	-0.001	91	64088	1.00	0.9753	
27 Methylene Chloride	84	3.952	3.964	-0.012	91	47257	1.00	1.00	
* 28 t-Butyl alcohol-d10 (IS)	65	3.964	3.983	-0.019	94	102122	50.0	50.0	
29 2-Methyl-2-propanol	59	4.074	4.080	-0.006	99	30018	20.0	20.1	
31 Acrylonitrile	53	4.330	4.281	0.049	28	14296	2.50	1.94	
32 Methyl tert-butyl ether	73	4.342	4.348	-0.006	96	102828	1.00	0.99	
33 trans-1,2-Dichloroethene	96	4.361	4.361	0.000	98	44322	1.00	1.00	
34 Hexane	57	4.775	4.787	-0.012	92	53002	1.00	1.02	
36 1,1-Dichloroethane	63	5.013	5.013	0.000	96	83665	1.00	0.99	
37 Isopropyl ether	45	5.068	5.074	-0.006	95	137917	1.00	0.99	
38 2-Chloro-1,3-butadiene	53	5.135	5.129	0.006	92	65626	1.00	0.9840	
40 Tert-butyl ethyl ether	59	5.616	5.616	0.000	98	130910	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.842	5.824	0.018	94	82055	10.0	9.14	
42 cis-1,2-Dichloroethene	96	5.854	5.854	0.000	82	49049	1.00	0.9754	
43 2,2-Dichloropropane	77	5.866	5.866	0.000	71	69697	1.00	1.00	
44 Propionitrile	54	5.921	5.903	0.018	98	38959	20.0	18.0	
47 Methacrylonitrile	67	6.122	6.122	0.000	92	102907	10.0	10.0	
S 46 1,2-Dichloroethene, Total	100				0			1.98	
48 Chlorobromomethane	128	6.189	6.190	-0.001	91	21538	1.00	1.01	
49 Tetrahydrofuran	71	6.220	6.208	0.012	77	14034	5.00	5.31	
50 Chloroform	83	6.342	6.342	0.000	93	83817	1.00	1.00	
$ 52 Dibromofluoromethane (Surr)	113	6.555	6.561	-0.006	93	513921	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.574	6.574	0.000	41	73445	1.00	1.03	
54 Cyclohexane	56	6.677	6.677	0.000	89	70327	1.00	0.99	
56 Carbon tetrachloride	117	6.793	6.787	0.006	86	62248	1.00	1.00	
55 1,1-Dichloropropene	75	6.799	6.793	0.006	95	62311	1.00	0.9802	
57 Isobutyl alcohol	41	6.958	6.945	0.013	92	22663	50.0	47.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.025	-0.006	80	104171	10.0	9.95	
59 Benzene	78	7.049	7.055	-0.006	95	192189	1.00	1.00	
60 1,2-Dichloroethane	62	7.122	7.128	-0.006	97	50438	1.00	1.00	
63 Tert-amyl methyl ether	73	7.250	7.256	-0.006	99	115791	1.00	1.01	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2092414	10.0	10.0	
65 n-Heptane	43	7.476	7.482	-0.006	38	52085	1.00	0.9785	
67 n-Butanol	56	7.884	7.848	0.036	86	25393	87.5	95.3	
68 Trichloroethene	95	7.957	7.957	0.000	99	50755	1.00	1.00	
69 Methylcyclohexane	83	8.262	8.268	-0.006	91	73783	1.00	1.03	
70 1,2-Dichloropropane	63	8.293	8.287	0.006	95	49174	1.00	1.01	
71 2-ethoxy-2-methyl butane	87	8.305	8.305	0.000	92	70359	1.00	0.9841	
72 Methyl methacrylate	69	8.402	8.378	0.024	75	18399	1.00	0.9527	
73 1,4-Dioxane	88	8.402	8.390	0.012	30	2565	50.0	50.7	M
74 Dibromomethane	93	8.402	8.403	-0.001	93	22087	1.00	0.9759	
76 Dichlorobromomethane	83	8.640	8.634	0.006	99	58441	1.00	0.99	
77 2-Nitropropane	41	8.908	8.902	0.006	99	31608	5.00	5.00	
79 1-Bromo-2-chloroethane	63	9.036	9.037	-0.001	98	43589	1.00	1.02	
80 cis-1,3-Dichloropropene	75	9.207	9.201	0.006	96	71938	1.00	1.00	
82 4-Methyl-2-pentanone (MIBK)	43	9.384	9.384	0.000	97	252892	10.0	10.1	
$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	93	2038483	10.0	9.98	
84 Toluene	92	9.603	9.604	-0.001	98	124876	1.00	1.01	
85 trans-1,3-Dichloropropene	75	9.884	9.872	0.012	94	58273	1.00	1.01	
104 Ethyl methacrylate	69	9.951	9.945	0.006	88	39892	1.00	0.9523	
S 105 1,3-Dichloropropene, Total	100				0			2.01	
106 1,1,2-Trichloroethane	97	10.085	10.085	0.000	90	33952	1.00	1.03	
107 Tetrachloroethene	166	10.176	10.177	-0.001	98	57194	1.00	0.99	
108 1,3-Dichloropropane	76	10.256	10.250	0.006	90	57623	1.00	1.03	
109 2-Hexanone	43	10.311	10.305	0.006	96	158297	10.0	9.54	
111 Chlorodibromomethane	129	10.475	10.469	0.006	91	40865	1.00	1.00	
112 Ethylene Dibromide	107	10.585	10.585	0.000	98	31297	1.00	1.02	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1571302	10.0	10.0	
114 1-Chlorohexane	91	11.042	11.036	0.006	95	67008	1.00	0.9671	
115 Chlorobenzene	112	11.054	11.054	0.000	96	136192	1.00	1.00	
116 1,1,1,2-Tetrachloroethane	131	11.140	11.134	0.006	96	48436	1.00	1.02	
117 Ethylbenzene	91	11.146	11.140	0.006	99	235206	1.00	0.9761	
S 118 Xylenes, Total	106				0			2.97	
119 m-Xylene & p-Xylene	106	11.262	11.262	0.000	100	182367	2.00	1.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 o-Xylene	106	11.597	11.591	0.006	96	88319	1.00	0.9781	
121 Styrene	104	11.615	11.609	0.006	94	134692	1.00	0.9623	
122 Bromoform	173	11.774	11.768	0.006	97	25505	1.00	1.00	
123 Isopropylbenzene	105	11.902	11.896	0.006	96	217049	1.00	1.00	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	92	763245	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.146	0.000	93	40234	1.00	1.02	
128 Bromobenzene	156	12.158	12.158	0.000	96	57921	1.00	1.01	
129 trans-1,4-Dichloro-2-butene	53	12.176	12.170	0.006	94	102918	10.0	10.2	
130 1,2,3-Trichloropropane	110	12.188	12.188	0.000	81	11352	1.00	1.11	
131 N-Propylbenzene	91	12.231	12.231	0.000	99	267298	1.00	0.9733	
132 2-Chlorotoluene	126	12.310	12.304	0.006	97	56830	1.00	1.01	
133 1,3,5-Trimethylbenzene	105	12.371	12.365	0.006	94	190766	1.00	0.9878	
134 4-Chlorotoluene	126	12.402	12.396	0.006	98	55441	1.00	0.9737	
135 tert-Butylbenzene	134	12.609	12.609	0.000	94	44596	1.00	1.03	
136 Pentachloroethane	167	12.639	12.640	-0.001	81	30480	1.00	1.01	
137 1,2,4-Trimethylbenzene	105	12.658	12.652	0.006	97	188617	1.00	0.9759	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	233265	1.00	0.9781	
139 1,3-Dichlorobenzene	146	12.877	12.871	0.006	98	108997	1.00	1.00	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	202510	1.00	0.9841	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	94	872460	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.950	12.950	0.000	95	109131	1.00	0.9724	
143 1,2,3-Trimethylbenzene	120	12.956	12.957	-0.001	97	89509	1.00	1.02	
144 Benzyl chloride	126	13.030	13.024	0.006	98	14761	1.00	0.9731	
145 p-Diethylbenzene	119	13.158	13.158	0.000	94	116916	1.00	0.9738	
146 n-Butylbenzene	92	13.182	13.176	0.006	97	90904	1.00	0.9662	
147 1,2-Dichlorobenzene	146	13.212	13.206	0.006	98	98865	1.00	1.00	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.755	0.006	86	4998	1.00	0.9495	
150 1,3,5-Trichlorobenzene	180	13.883	13.877	0.006	97	72008	1.00	0.9705	
151 1,2,4-Trichlorobenzene	180	14.310	14.304	0.006	94	55732	1.00	0.9610	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	94	20896	1.00	0.9545	
153 Naphthalene	128	14.487	14.481	0.006	97	95090	1.00	0.9769	
154 1,2,3-Trichlorobenzene	180	14.627	14.621	0.006	96	45567	1.00	0.9760	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00137	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00220	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00144	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00012	Amount Added:	5.00	Units: uL	Run Reagent

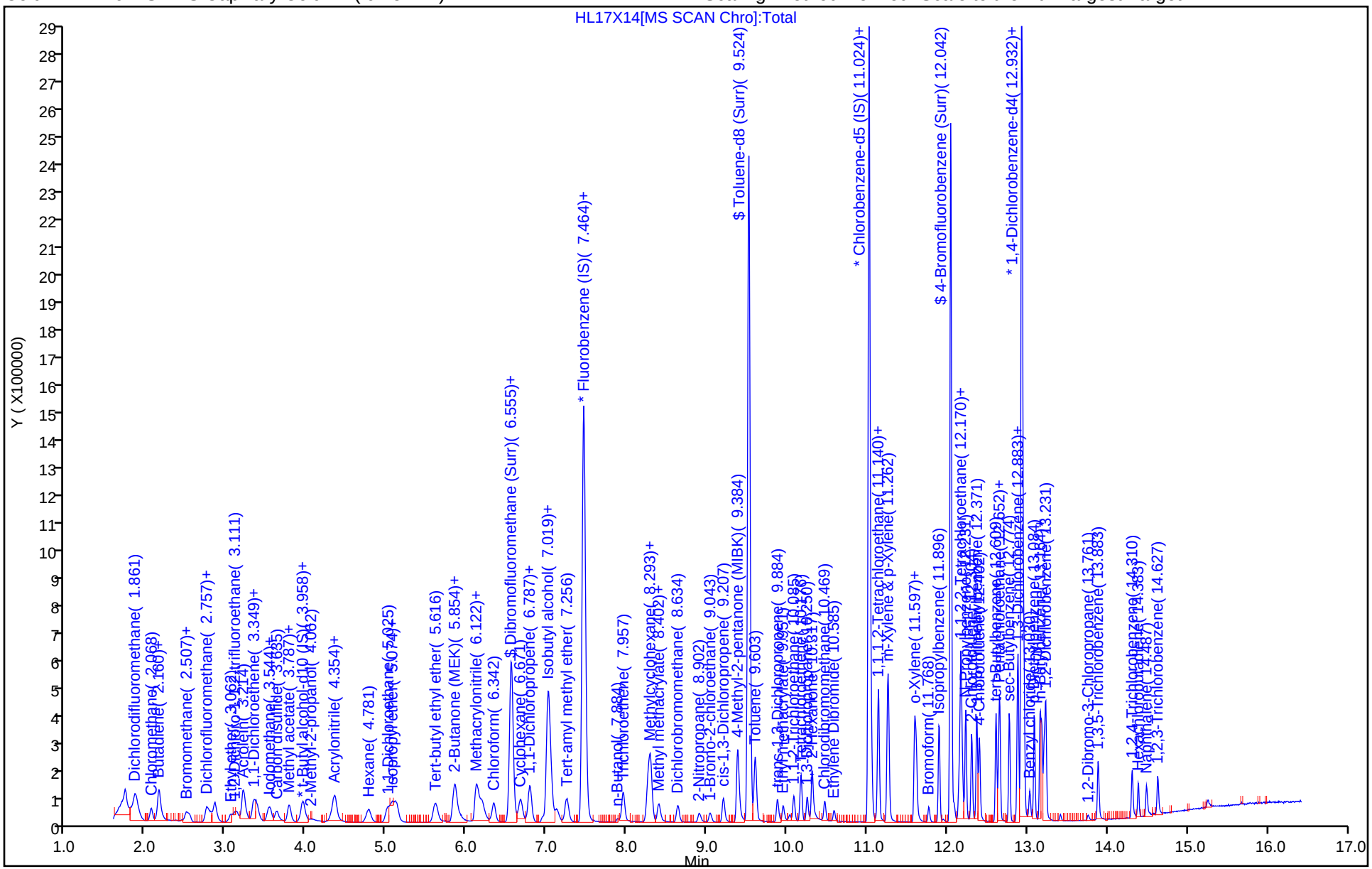
Report Date: 18-Jul-2024 22:31:20 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X14.D

Injection Date:	17-Jul-2024 18:12:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	IC std3 1			Worklist Smp#:	15
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSV_19094_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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

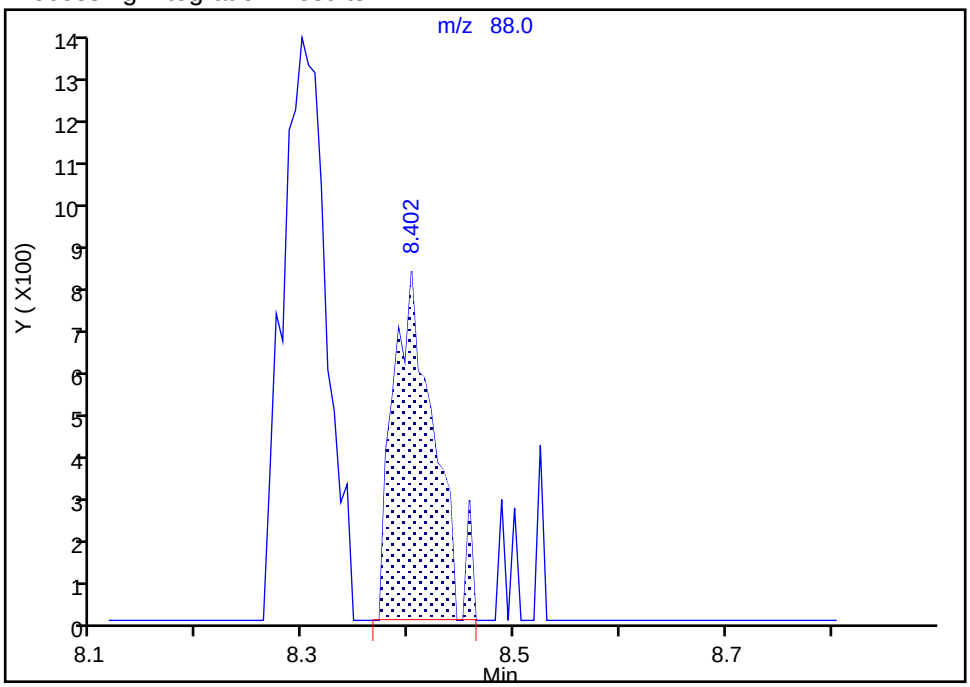
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X14.D				
Injection Date:	17-Jul-2024 18:12:30	Instrument ID:	19094		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

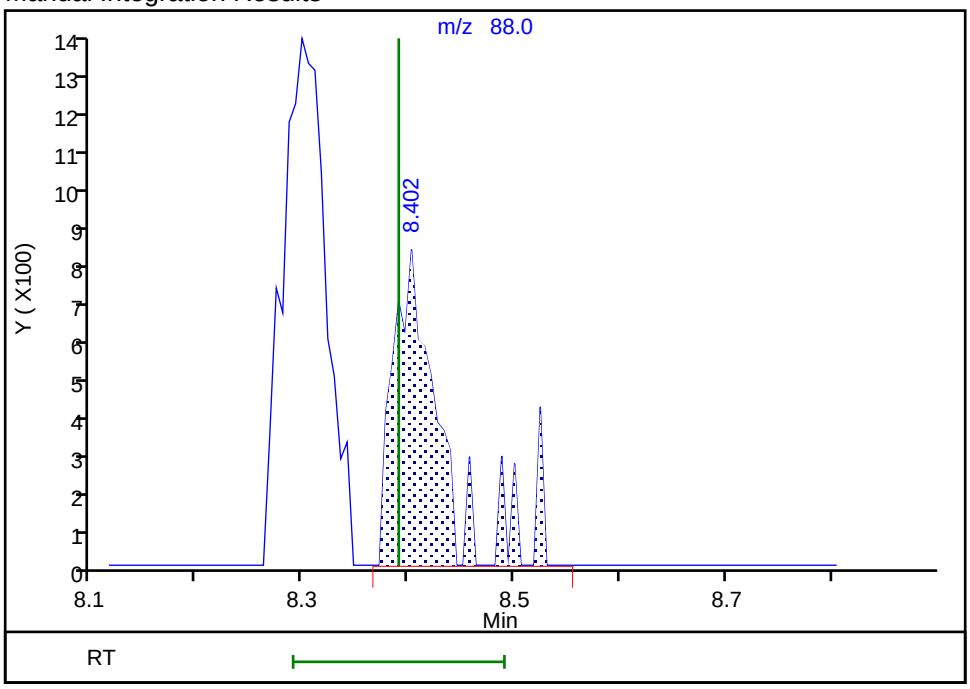
Processing Integration Results

RT: 8.40
Area: 2210
Amount: 36.589273
Amount Units: ug/l



Manual Integration Results

RT: 8.40
Area: 2565
Amount: 50.724807
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:23:49 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X15.D
Lims ID: IC std4 2
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 17-Jul-2024 18:32:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0119602-016
Misc. Info.: IC std4 2
Operator ID: knk41612 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jul-2024 22:31:36 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1666

First Level Reviewer: DVW2 Date: 18-Jul-2024 08:23:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.885	1.879	0.006	80	103135	2.00	1.95	
5 Chloromethane	50	2.074	2.074	0.000	99	127199	2.00	1.92	
7 Butadiene	39	2.172	2.166	0.006	92	115676	2.00	2.04	
6 Vinyl chloride	62	2.184	2.178	0.006	98	114386	2.00	1.89	
9 Bromomethane	94	2.519	2.513	0.006	90	81600	2.00	1.92	
10 Chloroethane	64	2.562	2.550	0.012	99	68519	2.00	1.93	
11 Dichlorofluoromethane	67	2.775	2.769	0.006	97	186601	2.00	1.91	
12 Trichlorofluoromethane	101	2.873	2.867	0.006	98	141253	2.00	1.93	
14 Ethyl ether	59	3.068	3.056	0.012	92	53590	2.00	1.95	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.141	3.135	0.006	94	102520	2.00	1.89	
16 Acrolein	56	3.221	3.215	0.007	99	440712	100.2	103.9	
17 1,1-Dichloroethene	96	3.355	3.349	0.006	98	73081	2.00	1.94	
19 Acetone	43	3.385	3.367	0.018	99	108891	20.0	20.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.403	3.391	0.012	90	74381	2.00	2.01	
21 Iodomethane	142	3.538	3.532	0.006	99	149959	2.00	2.01	
22 Ethyl bromide	108	3.568	3.556	0.012	98	63457	2.00	1.90	
23 Carbon disulfide	76	3.641	3.635	0.006	99	214076	2.00	2.00	
24 Methyl acetate	43	3.787	3.769	0.018	27	27571	2.00	1.92	M
26 3-Chloro-1-propene	41	3.800	3.788	0.012	91	131675	2.00	2.01	
27 Methylene Chloride	84	3.970	3.964	0.006	91	91222	2.00	1.95	
* 28 t-Butyl alcohol-d10 (IS)	65	3.976	3.983	-0.007	96	99711	50.0	50.0	
29 2-Methyl-2-propanol	59	4.092	4.080	0.012	99	57937	40.0	39.7	
31 Acrylonitrile	53	4.312	4.281	0.031	98	34281	5.00	4.77	
32 Methyl tert-butyl ether	73	4.342	4.348	-0.006	95	206688	2.00	2.00	
33 trans-1,2-Dichloroethene	96	4.373	4.361	0.012	99	86294	2.00	1.96	
34 Hexane	57	4.787	4.787	0.000	92	105375	2.00	2.03	
36 1,1-Dichloroethane	63	5.019	5.013	0.006	96	168074	2.00	2.00	
37 Isopropyl ether	45	5.086	5.074	0.012	93	277041	2.00	2.00	
38 2-Chloro-1,3-butadiene	53	5.141	5.129	0.012	92	130622	2.00	1.97	
40 Tert-butyl ethyl ether	59	5.623	5.616	0.006	98	256859	2.00	1.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.842	5.824	0.018	100	183369	20.0	20.9	
42 cis-1,2-Dichloroethene	96	5.860	5.854	0.006	82	100203	2.00	2.00	
43 2,2-Dichloropropane	77	5.866	5.866	0.000	87	138589	2.00	1.99	
44 Propionitrile	54	5.921	5.903	0.018	98	80750	40.0	33.6	
47 Methacrylonitrile	67	6.128	6.122	0.006	92	210419	20.0	21.0	
S 46 1,2-Dichloroethene, Total	100				0			3.96	
48 Chlorobromomethane	128	6.196	6.190	0.006	91	42127	2.00	1.99	
49 Tetrahydrofuran	71	6.220	6.208	0.012	69	28231	10.0	10.9	
50 Chloroform	83	6.348	6.342	0.006	93	166424	2.00	2.00	
$ 52 Dibromofluoromethane (Surr)	113	6.567	6.561	0.006	94	511296	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.580	6.574	0.006	98	140304	2.00	1.97	
54 Cyclohexane	56	6.683	6.677	0.006	90	138098	2.00	1.96	
56 Carbon tetrachloride	117	6.793	6.787	0.006	87	123016	2.00	1.99	
55 1,1-Dichloropropene	75	6.799	6.793	0.006	95	123604	2.00	1.95	
57 Isobutyl alcohol	41	6.958	6.945	0.013	95	46228	100.0	98.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.025	-0.006	81	106746	10.0	10.2	
59 Benzene	78	7.061	7.055	0.006	96	380618	2.00	1.98	
60 1,2-Dichloroethane	62	7.128	7.128	0.000	97	102042	2.00	2.02	
63 Tert-amyl methyl ether	73	7.256	7.256	0.000	98	227609	2.00	2.00	
* 64 Fluorobenzene (IS)	96	7.470	7.470	0.000	98	2082929	10.0	10.0	
65 n-Heptane	43	7.494	7.482	0.012	90	103113	2.00	1.95	
67 n-Butanol	56	7.872	7.848	0.024	89	58005	175.0	171.2	
68 Trichloroethene	95	7.957	7.957	0.000	98	100129	2.00	1.98	
69 Methylcyclohexane	83	8.268	8.268	0.000	93	141729	2.00	1.98	
70 1,2-Dichloropropane	63	8.287	8.287	0.000	94	96005	2.00	1.98	
71 2-ethoxy-2-methyl butane	87	8.305	8.305	0.000	92	141667	2.00	1.99	
72 Methyl methacrylate	69	8.390	8.378	0.012	87	38407	2.00	2.04	
73 1,4-Dioxane	88	8.396	8.390	0.006	31	7477	100.0	103.9	M
74 Dibromomethane	93	8.409	8.403	0.006	93	46352	2.00	2.06	
76 Dichlorobromomethane	83	8.640	8.634	0.006	99	118299	2.00	2.02	
77 2-Nitropropane	41	8.908	8.902	0.006	98	60174	10.0	9.75	
79 1-Bromo-2-chloroethane	63	9.043	9.037	0.006	98	81329	2.00	1.91	
80 cis-1,3-Dichloropropene	75	9.207	9.201	0.006	96	142894	2.00	2.00	
82 4-Methyl-2-pentanone (MIBK)	43	9.384	9.384	0.000	97	510085	20.0	20.8	
$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	93	2043996	10.0	9.98	
84 Toluene	92	9.603	9.604	-0.001	98	247257	2.00	1.99	
85 trans-1,3-Dichloropropene	75	9.878	9.872	0.006	93	114809	2.00	1.98	
104 Ethyl methacrylate	69	9.951	9.945	0.006	88	85090	2.00	2.03	
S 105 1,3-Dichloropropene, Total	100				0			3.98	
106 1,1,2-Trichloroethane	97	10.085	10.085	0.000	91	64482	2.00	1.95	
107 Tetrachloroethene	166	10.176	10.177	-0.001	98	114229	2.00	1.97	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	90	112880	2.00	2.01	
109 2-Hexanone	43	10.311	10.305	0.006	97	324991	20.0	20.1	
111 Chlorodibromomethane	129	10.469	10.469	0.000	89	81625	2.00	2.00	
112 Ethylene Dibromide	107	10.585	10.585	0.000	99	61941	2.00	2.01	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1575332	10.0	10.0	
114 1-Chlorohexane	91	11.042	11.036	0.006	97	131072	2.00	1.89	
115 Chlorobenzene	112	11.054	11.054	0.000	95	270180	2.00	1.98	
116 1,1,1,2-Tetrachloroethane	131	11.140	11.134	0.006	94	94490	2.00	1.98	
117 Ethylbenzene	91	11.146	11.140	0.006	99	477950	2.00	1.98	
S 118 Xylenes, Total	106				0			5.99	
119 m-Xylene & p-Xylene	106	11.262	11.262	0.000	100	367164	4.00	4.00	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 o-Xylene	106	11.591	11.591	0.000	97	179587	2.00	1.98	
121 Styrene	104	11.609	11.609	0.000	94	278205	2.00	1.98	
122 Bromoform	173	11.768	11.768	0.000	98	51626	2.00	2.01	
123 Isopropylbenzene	105	11.896	11.896	0.000	96	431939	2.00	1.98	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	92	764534	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.146	0.000	92	80095	2.00	2.03	
128 Bromobenzene	156	12.158	12.158	0.000	96	115186	2.00	2.00	
129 trans-1,4-Dichloro-2-butene	53	12.170	12.170	0.000	94	205401	20.0	20.9	
130 1,2,3-Trichloropropane	110	12.194	12.188	0.006	80	21029	2.00	2.06	
131 N-Propylbenzene	91	12.231	12.231	0.000	99	554694	2.00	2.02	
132 2-Chlorotoluene	126	12.304	12.304	0.000	96	113923	2.00	2.02	
133 1,3,5-Trimethylbenzene	105	12.371	12.365	0.006	94	383098	2.00	1.98	
134 4-Chlorotoluene	126	12.402	12.396	0.006	97	115637	2.00	2.03	
135 tert-Butylbenzene	134	12.609	12.609	0.000	93	83719	2.00	1.94	
136 Pentachloroethane	167	12.639	12.640	-0.001	92	56475	2.00	1.88	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	97	387876	2.00	2.01	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	473356	2.00	1.98	
139 1,3-Dichlorobenzene	146	12.877	12.871	0.006	98	217258	2.00	2.00	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	410578	2.00	1.99	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	872633	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.950	12.950	0.000	96	222405	2.00	1.98	
143 1,2,3-Trimethylbenzene	120	12.956	12.957	-0.001	98	173683	2.00	1.99	
144 Benzyl chloride	126	13.030	13.024	0.006	99	31696	2.00	2.09	
145 p-Diethylbenzene	119	13.158	13.158	0.000	94	240833	2.00	2.01	
146 n-Butylbenzene	92	13.176	13.176	0.000	97	189440	2.00	2.01	
147 1,2-Dichlorobenzene	146	13.212	13.206	0.006	98	200320	2.00	2.02	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.755	0.006	87	10305	2.00	1.96	
150 1,3,5-Trichlorobenzene	180	13.883	13.877	0.006	97	146055	2.00	1.97	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	118082	2.00	2.04	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	95	41538	2.00	1.90	
153 Naphthalene	128	14.487	14.481	0.006	97	198506	2.00	2.04	
154 1,2,3-Trichlorobenzene	180	14.627	14.621	0.006	95	91311	2.00	1.96	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00137	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00220	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00144	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00012	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 18-Jul-2024 22:31:36 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X15.D

Injection Date: 17-Jul-2024 18:32:30 Instrument ID: 19094 Operator ID: knk41612

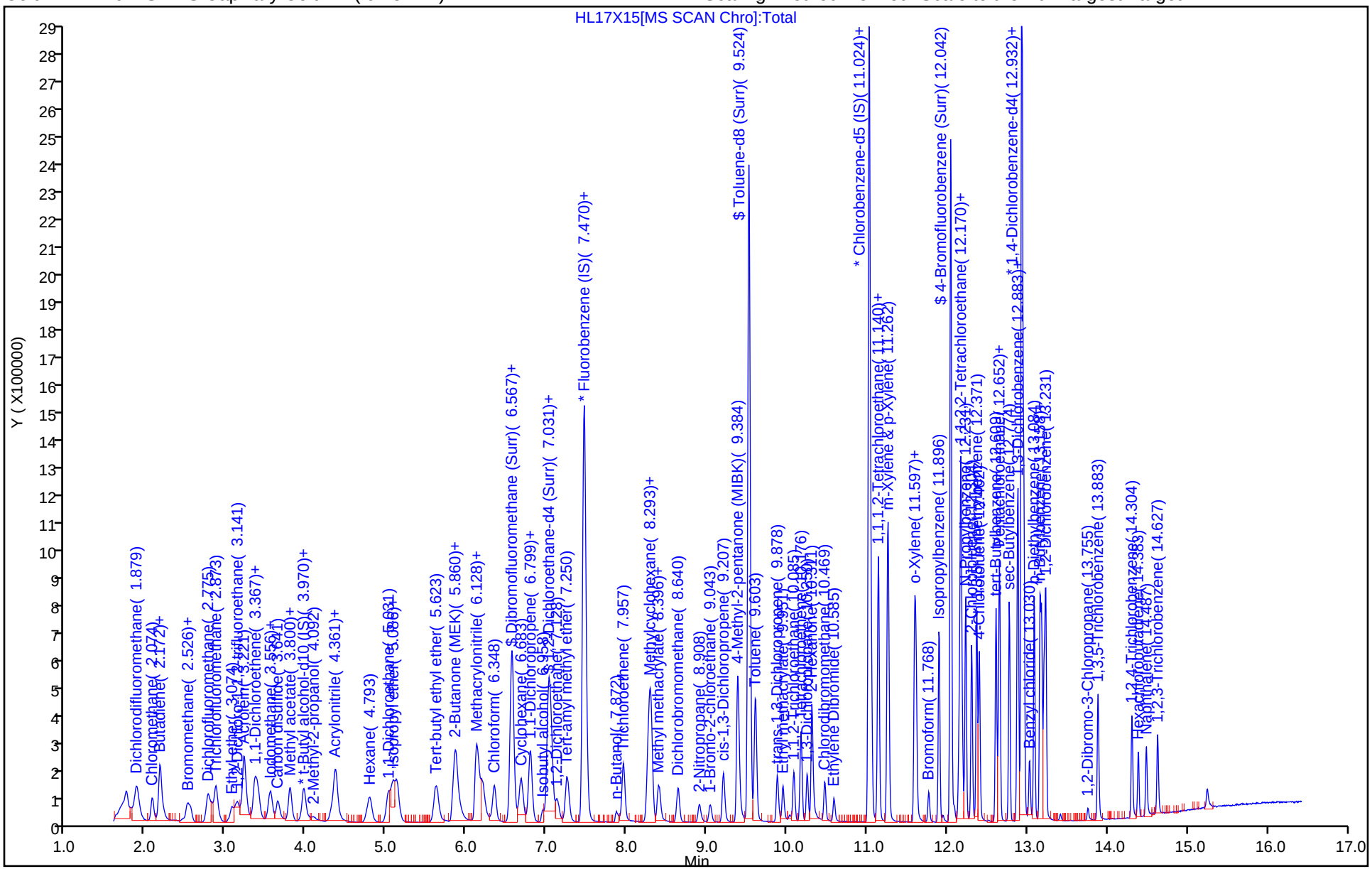
Lims ID: IC std4 2 Worklist Smp#: 16

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 15

Method: MSV_19094_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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

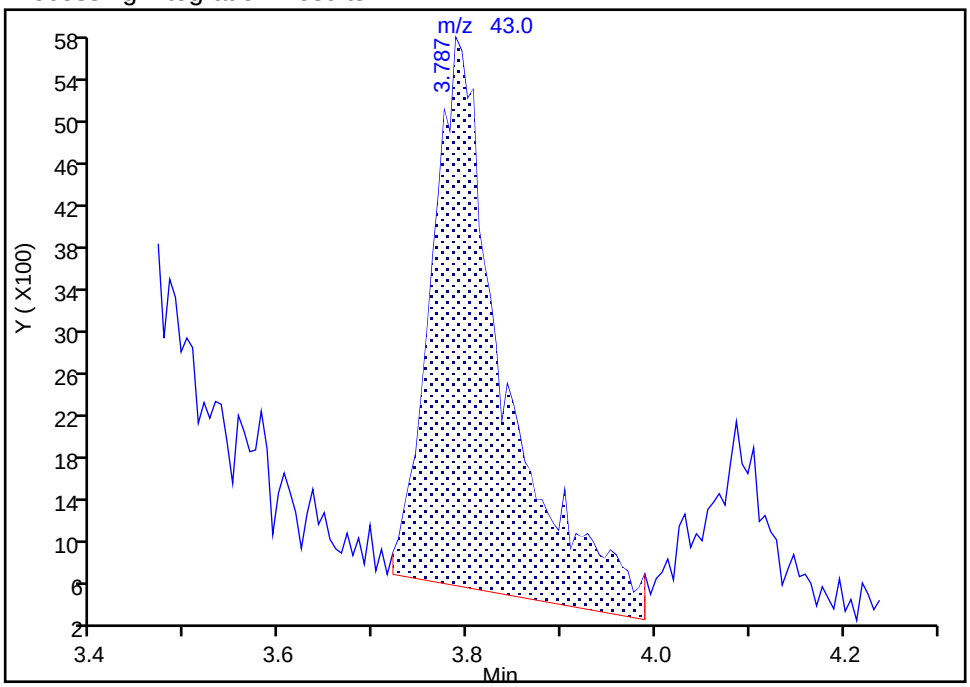
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X15.D				
Injection Date:	17-Jul-2024 18:32:30	Instrument ID:	19094		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Methyl acetate, CAS: 79-20-9

Signal: 1

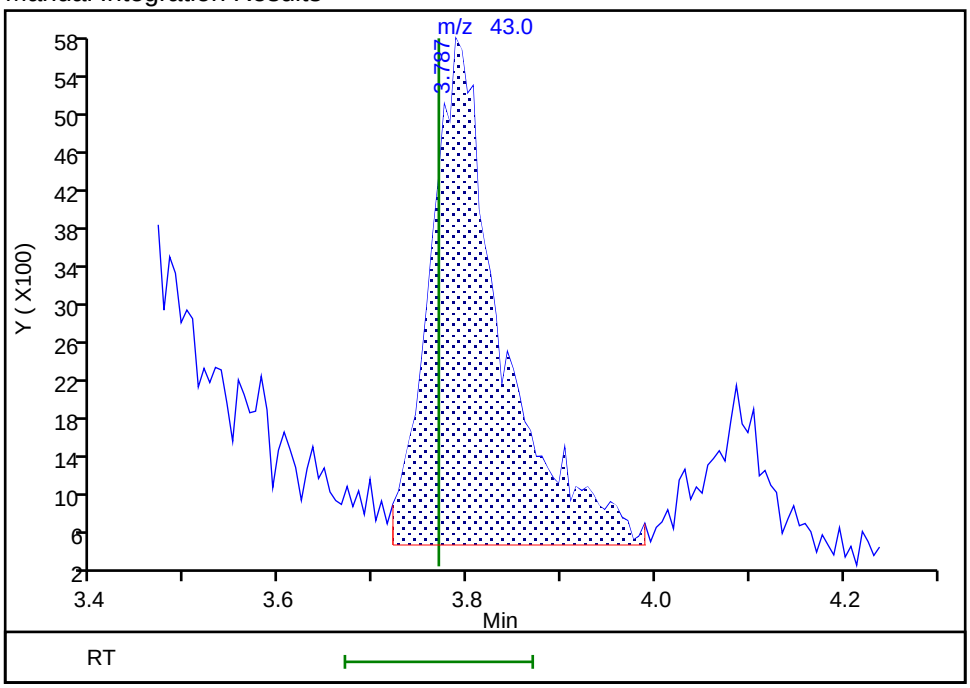
Processing Integration Results

RT: 3.79
Area: 27415
Amount: 2.028865
Amount Units: ug/l



Manual Integration Results

RT: 3.79
Area: 27571
Amount: 1.917504
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:22:38 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

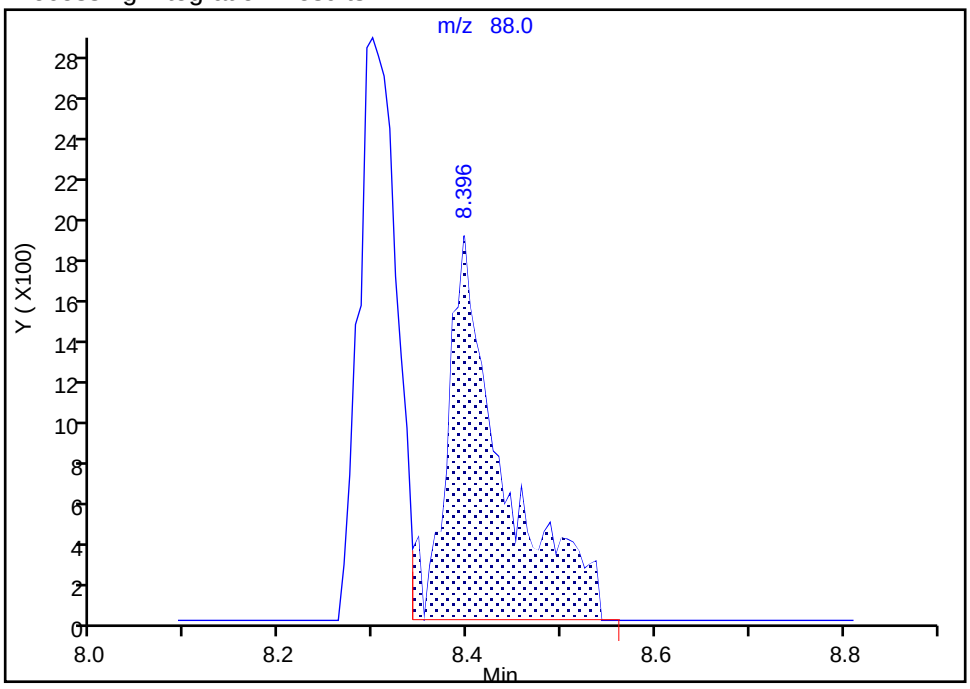
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X15.D				
Injection Date:	17-Jul-2024 18:32:30	Instrument ID:	19094		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

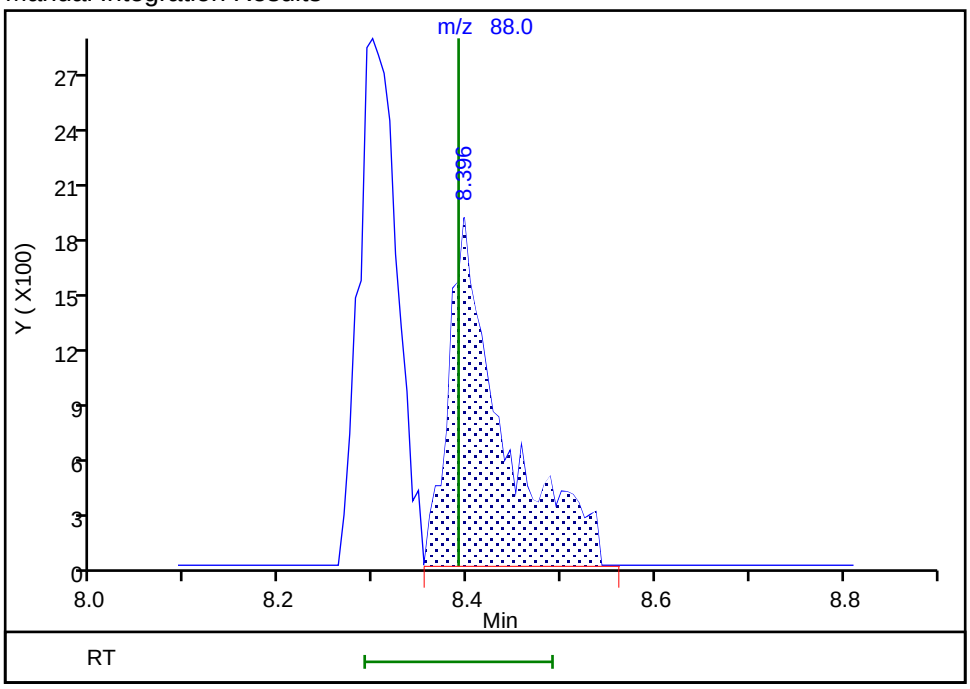
Processing Integration Results

RT: 8.40
Area: 7752
Amount: 102.8763
Amount Units: ug/l



Manual Integration Results

RT: 8.40
Area: 7477
Amount: 103.8893
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 09:03:42 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X16.D
Lims ID: IC std5 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 17-Jul-2024 18:53:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0119602-017
Misc. Info.: IC std5 5
Operator ID: knk41612 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jul-2024 22:31:51 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1666

First Level Reviewer: DVW2 Date: 18-Jul-2024 08:17:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.886	1.879	0.007	100	285274	5.00	5.22	
5 Chloromethane	50	2.081	2.074	0.007	99	341207	5.00	5.00	
7 Butadiene	39	2.172	2.166	0.006	90	321741	5.00	5.51	
6 Vinyl chloride	62	2.184	2.178	0.006	98	315003	5.00	5.04	
9 Bromomethane	94	2.513	2.513	0.000	91	223017	5.00	5.09	
10 Chloroethane	64	2.556	2.550	0.006	99	185950	5.00	5.08	
11 Dichlorofluoromethane	67	2.776	2.769	0.007	97	508235	5.00	5.04	
12 Trichlorofluoromethane	101	2.873	2.867	0.006	98	395462	5.00	5.25	
14 Ethyl ether	59	3.068	3.056	0.012	92	150219	5.00	5.29	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.141	3.135	0.006	93	287233	5.00	5.14	
16 Acrolein	56	3.221	3.215	0.007	99	1245451	250.5	265.6	
17 1,1-Dichloroethene	96	3.355	3.349	0.006	98	203584	5.00	5.25	
19 Acetone	43	3.385	3.367	0.018	100	291520	50.0	49.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.397	3.391	0.006	91	213087	5.00	5.59	
21 Iodomethane	142	3.538	3.532	0.006	99	404273	5.00	5.25	
22 Ethyl bromide	108	3.568	3.556	0.012	98	178273	5.01	5.17	
23 Carbon disulfide	76	3.647	3.635	0.012	99	578928	5.00	5.24	
24 Methyl acetate	43	3.775	3.769	0.006	44	75415	5.00	4.74	
26 3-Chloro-1-propene	41	3.800	3.788	0.012	91	355706	5.00	5.27	
27 Methylene Chloride	84	3.970	3.964	0.006	92	240812	5.00	4.99	
* 28 t-Butyl alcohol-d10 (IS)	65	3.970	3.983	-0.013	97	110278	50.0	50.0	
29 2-Methyl-2-propanol	59	4.099	4.080	0.018	99	163655	100.0	101.5	
31 Acrylonitrile	53	4.294	4.281	0.013	99	103737	12.5	13.0	
32 Methyl tert-butyl ether	73	4.348	4.348	0.000	96	556492	5.00	5.23	
33 trans-1,2-Dichloroethene	96	4.373	4.361	0.012	99	234115	5.00	5.17	
34 Hexane	57	4.787	4.787	0.000	92	310523	5.00	5.81	
36 1,1-Dichloroethane	63	5.025	5.013	0.012	96	444557	5.00	5.13	
37 Isopropyl ether	45	5.080	5.074	0.006	94	738059	5.00	5.17	
38 2-Chloro-1,3-butadiene	53	5.129	5.129	0.000	91	370346	5.00	5.41	
40 Tert-butyl ethyl ether	59	5.623	5.616	0.007	98	697966	5.00	5.26	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.830	5.824	0.006	100	518321	50.0	53.5	
42 cis-1,2-Dichloroethene	96	5.860	5.854	0.006	82	269274	5.00	5.22	
43 2,2-Dichloropropane	77	5.879	5.866	0.013	88	371657	5.00	5.17	
44 Propionitrile	54	5.915	5.903	0.012	99	259240	100.0	89.7	
47 Methacrylonitrile	67	6.129	6.122	0.007	91	592679	50.0	53.4	
S 46 1,2-Dichloroethene, Total	100				0			10.4	
48 Chlorobromomethane	128	6.196	6.190	0.006	93	114725	5.00	5.26	
49 Tetrahydrofuran	71	6.226	6.208	0.018	78	79216	25.0	27.8	
50 Chloroform	83	6.348	6.342	0.006	94	445327	5.00	5.18	
$ 52 Dibromofluoromethane (Surr)	113	6.568	6.561	0.007	94	528198	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.580	6.574	0.006	98	389907	5.00	5.32	
54 Cyclohexane	56	6.683	6.677	0.006	91	401385	5.00	5.53	
56 Carbon tetrachloride	117	6.793	6.787	0.006	94	340591	5.00	5.33	
55 1,1-Dichloropropene	75	6.799	6.793	0.006	96	344654	5.00	5.28	
57 Isobutyl alcohol	41	6.946	6.945	0.001	93	141060	250.0	271.9	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.025	7.025	0.000	95	109485	10.0	10.2	
59 Benzene	78	7.055	7.055	0.000	97	1043911	5.00	5.28	
60 1,2-Dichloroethane	62	7.135	7.128	0.006	97	278071	5.00	5.35	
63 Tert-amyl methyl ether	73	7.256	7.256	0.000	99	614715	5.00	5.24	
* 64 Fluorobenzene (IS)	96	7.470	7.470	0.000	98	2147537	10.0	10.0	
65 n-Heptane	43	7.488	7.482	0.006	91	310620	5.00	5.69	
67 n-Butanol	56	7.854	7.848	0.006	89	178991	437.5	408.3	
68 Trichloroethene	95	7.958	7.957	0.001	99	269294	5.00	5.17	
69 Methylcyclohexane	83	8.268	8.268	0.000	93	415012	5.00	5.62	
70 1,2-Dichloropropane	63	8.287	8.287	0.000	87	263728	5.00	5.28	
71 2-ethoxy-2-methyl butane	87	8.305	8.305	0.000	92	386837	5.00	5.27	
72 Methyl methacrylate	69	8.390	8.378	0.012	90	110457	5.00	5.30	
73 1,4-Dioxane	88	8.390	8.390	0.000	33	20852	250.0	228.0	M
74 Dibromomethane	93	8.403	8.403	0.000	95	125447	5.00	5.40	
76 Dichlorobromomethane	83	8.640	8.634	0.006	99	319788	5.00	5.29	
77 2-Nitropropane	41	8.902	8.902	0.000	98	168568	25.0	24.7	
79 1-Bromo-2-chloroethane	63	9.043	9.037	0.006	99	230339	5.00	5.24	
80 cis-1,3-Dichloropropene	75	9.207	9.201	0.006	96	395013	5.00	5.37	
82 4-Methyl-2-pentanone (MIBK)	43	9.384	9.384	0.000	97	1428635	50.0	52.7	
$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	93	2102825	10.0	9.97	
84 Toluene	92	9.604	9.604	0.000	98	662789	5.00	5.17	
85 trans-1,3-Dichloropropene	75	9.878	9.872	0.006	93	318847	5.00	5.33	
104 Ethyl methacrylate	69	9.945	9.945	0.000	88	243024	5.00	5.62	
S 105 1,3-Dichloropropene, Total	100				0			10.7	
106 1,1,2-Trichloroethane	97	10.085	10.085	0.000	90	177984	5.00	5.22	
107 Tetrachloroethene	166	10.177	10.177	0.000	99	311584	5.00	5.23	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	90	307626	5.00	5.31	
109 2-Hexanone	43	10.311	10.305	0.006	96	950515	50.0	53.0	
111 Chlorodibromomethane	129	10.469	10.469	0.000	90	225771	5.00	5.37	
112 Ethylene Dibromide	107	10.585	10.585	0.000	98	169021	5.00	5.33	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1621905	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	97	364522	5.00	5.10	
115 Chlorobenzene	112	11.054	11.054	0.000	95	727641	5.00	5.17	
116 1,1,1,2-Tetrachloroethane	131	11.140	11.134	0.006	96	257505	5.00	5.23	
117 Ethylbenzene	91	11.140	11.140	0.000	99	1297457	5.00	5.22	
S 118 Xylenes, Total	106				0			15.7	
119 m-Xylene & p-Xylene	106	11.262	11.262	0.000	100	994582	10.0	10.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 o-Xylene	106	11.591	11.591	0.000	97	485891	5.00	5.21	
121 Styrene	104	11.609	11.609	0.000	95	781985	5.00	5.41	
122 Bromoform	173	11.768	11.768	0.000	97	138401	5.00	5.24	
123 Isopropylbenzene	105	11.896	11.896	0.000	96	1186225	5.00	5.28	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	92	786176	10.0	9.98	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.146	0.000	92	216990	5.00	5.27	
128 Bromobenzene	156	12.158	12.158	0.000	96	312064	5.00	5.20	
129 trans-1,4-Dichloro-2-butene	53	12.170	12.170	0.000	94	573467	50.0	52.8	
130 1,2,3-Trichloropropane	110	12.188	12.188	0.000	78	57302	5.00	5.37	
131 N-Propylbenzene	91	12.231	12.231	0.000	99	1492472	5.00	5.21	
132 2-Chlorotoluene	126	12.304	12.304	0.000	96	306440	5.00	5.22	
133 1,3,5-Trimethylbenzene	105	12.371	12.365	0.006	94	1055997	5.00	5.24	
134 4-Chlorotoluene	126	12.402	12.396	0.006	97	310904	5.00	5.23	
135 tert-Butylbenzene	134	12.609	12.609	0.000	93	230890	5.00	5.12	
136 Pentachloroethane	167	12.640	12.640	0.000	88	167767	5.00	5.35	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	99	1066239	5.00	5.29	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	1317645	5.00	5.29	
139 1,3-Dichlorobenzene	146	12.877	12.871	0.006	98	589863	5.00	5.21	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	1127839	5.00	5.25	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	94	910535	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.950	12.950	0.000	95	598508	5.00	5.11	
143 1,2,3-Trimethylbenzene	120	12.957	12.957	0.000	99	469362	5.00	5.14	
144 Benzyl chloride	126	13.024	13.024	0.000	99	90213	5.00	5.70	
145 p-Diethylbenzene	119	13.158	13.158	0.000	94	668442	5.00	5.33	
146 n-Butylbenzene	92	13.176	13.176	0.000	97	532292	5.00	5.42	
147 1,2-Dichlorobenzene	146	13.206	13.206	0.000	98	544734	5.00	5.26	
149 1,2-Dibromo-3-Chloropropane	155	13.755	13.755	0.000	87	30004	5.00	5.46	
150 1,3,5-Trichlorobenzene	180	13.883	13.877	0.006	98	408296	5.00	5.27	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	334967	5.00	5.53	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	95	117651	5.00	5.15	
153 Naphthalene	128	14.481	14.481	0.000	97	568628	5.00	5.60	
154 1,2,3-Trichlorobenzene	180	14.627	14.621	0.006	96	263494	5.00	5.41	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00137	Amount Added:	5.00	Units: uL	
MSV_LL_GAS826_00220	Amount Added:	5.00	Units: uL	
MSV_LL_#2_826_00144	Amount Added:	5.00	Units: uL	
MSV_LLcentISS_00012	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 18-Jul-2024 22:31:52 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X16.D

Injection Date: 17-Jul-2024 18:53:30 Instrument ID: 19094 Operator ID: knk41612

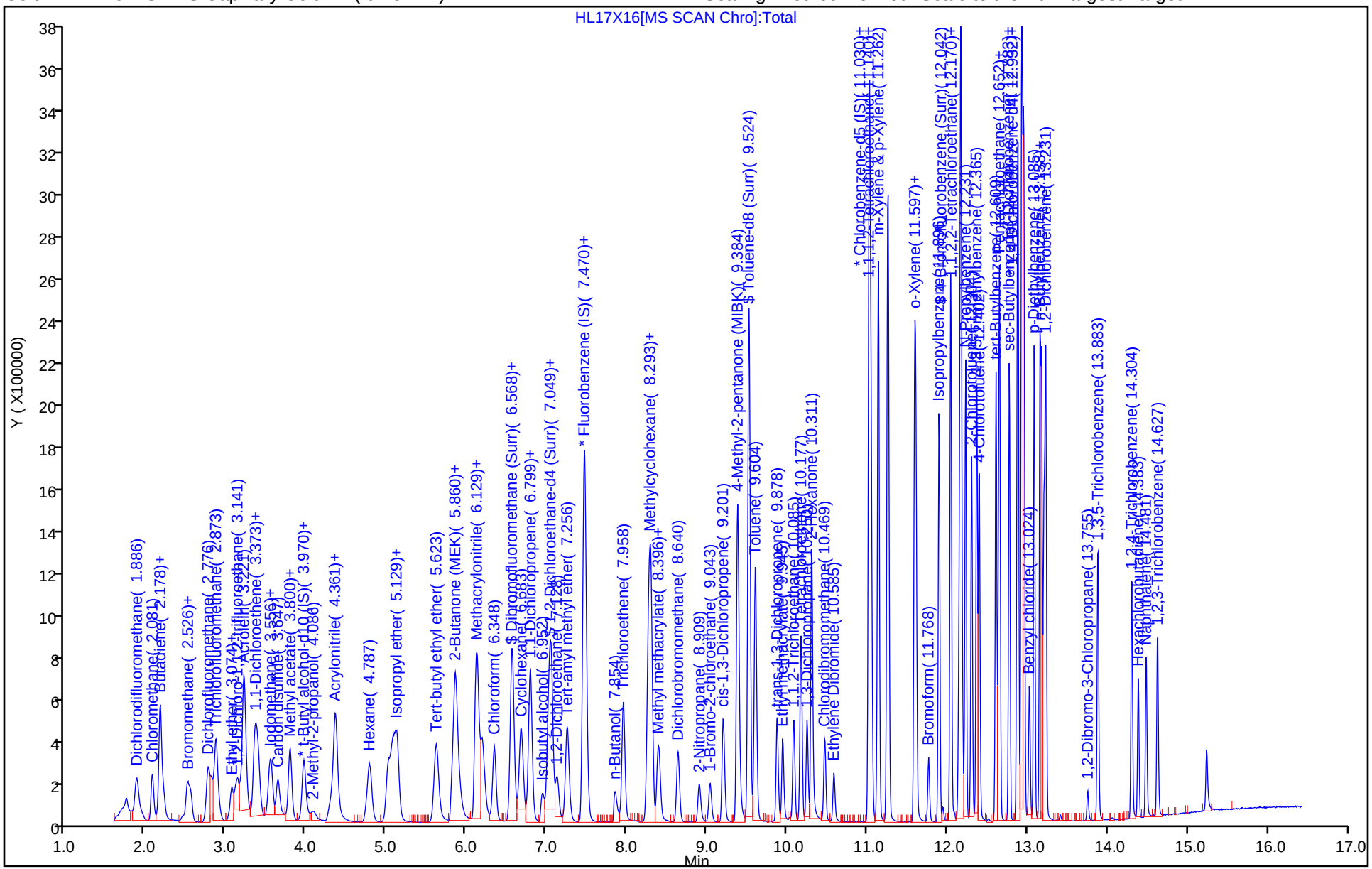
Lims ID: IC std5 5 Worklist Smp#: 17

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 16

Method: MSV_19094_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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

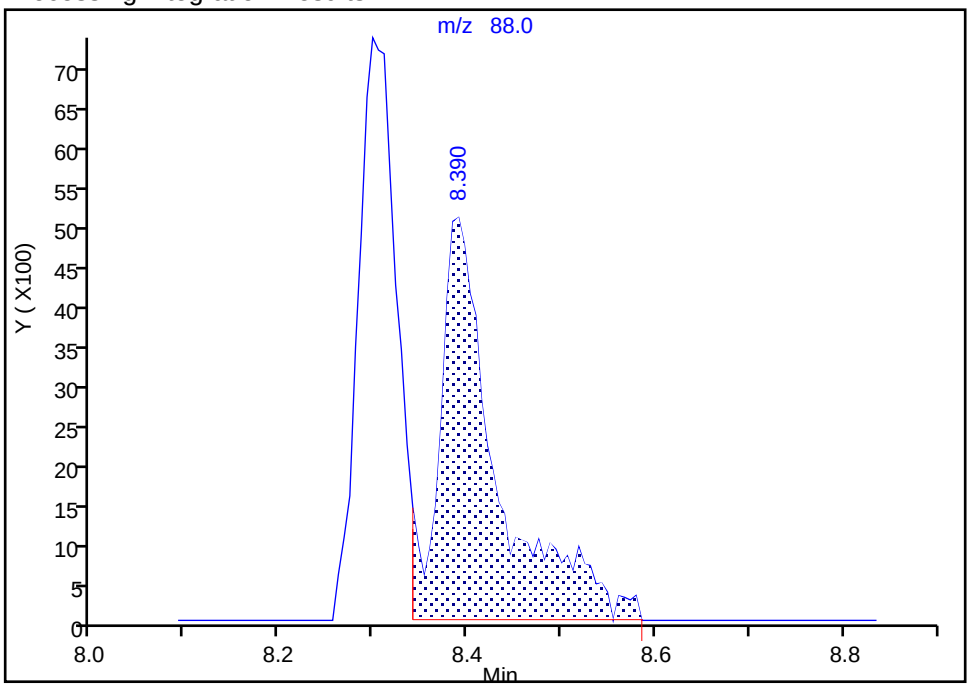
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X16.D				
Injection Date:	17-Jul-2024 18:53:30	Instrument ID:	19094		
Lims ID:	IC std5 5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

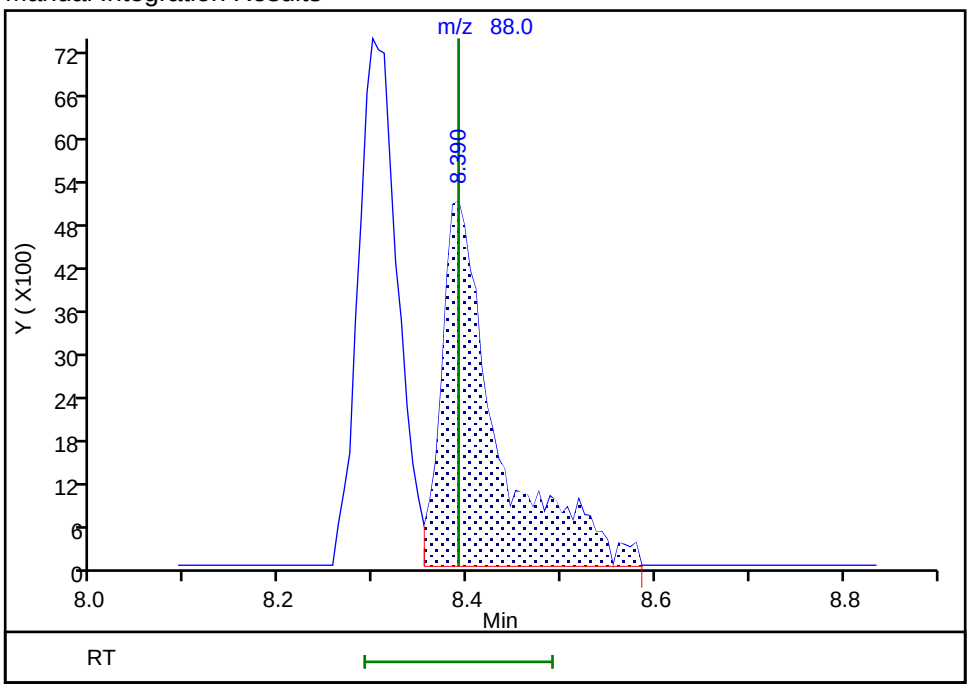
Processing Integration Results

RT: 8.39
Area: 21709
Amount: 246.8991
Amount Units: ug/l



Manual Integration Results

RT: 8.39
Area: 20852
Amount: 228.0220
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 09:03:29 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X17.D
Lims ID: ICIS 10
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 17-Jul-2024 19:14:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0119602-018
Misc. Info.: ICIS 10
Operator ID: knk41612 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jul-2024 22:32:07 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1666

First Level Reviewer: DVW2 Date: 18-Jul-2024 08:15:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.879	1.879	0.000	99	587472	10.0	10.6	
5 Chloromethane	50	2.074	2.074	0.000	99	698279	10.0	10.1	
7 Butadiene	39	2.166	2.166	0.000	92	647940	10.0	10.9	
6 Vinyl chloride	62	2.178	2.178	0.000	98	653418	10.0	10.3	
9 Bromomethane	94	2.513	2.513	0.000	91	466775	10.0	10.5	
10 Chloroethane	64	2.550	2.550	0.000	100	384021	10.0	10.3	
11 Dichlorofluoromethane	67	2.769	2.769	0.000	97	1042688	10.0	10.2	
12 Trichlorofluoromethane	101	2.867	2.867	0.000	98	796394	10.0	10.4	
14 Ethyl ether	59	3.056	3.056	0.000	91	316557	10.0	11.0	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.135	3.135	0.000	93	586623	10.0	10.3	
16 Acrolein	56	3.215	3.215	0.000	99	2539491	501.1	553.1	
17 1,1-Dichloroethene	96	3.349	3.349	0.000	98	399604	10.0	10.2	
19 Acetone	43	3.367	3.367	0.000	100	576319	100.0	100.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.391	3.391	0.000	92	414973	10.0	10.7	
21 Iodomethane	142	3.532	3.532	0.000	98	805987	10.0	10.3	
22 Ethyl bromide	108	3.556	3.556	0.000	98	381365	10.0	10.9	
23 Carbon disulfide	76	3.635	3.635	0.000	99	1152754	10.0	10.3	
24 Methyl acetate	43	3.769	3.769	0.000	96	147389	10.0	9.47	
26 3-Chloro-1-propene	41	3.788	3.788	0.000	92	712108	10.0	10.4	
27 Methylene Chloride	84	3.964	3.964	0.000	92	476063	10.0	9.72	
* 28 t-Butyl alcohol-d10 (IS)	65	3.970	3.970	0.000	97	107980	50.0	50.0	
29 2-Methyl-2-propanol	59	4.080	4.080	0.000	100	346202	200.0	219.2	
31 Acrylonitrile	53	4.281	4.281	0.000	98	212540	25.0	27.3	
32 Methyl tert-butyl ether	73	4.348	4.348	0.000	95	1110851	10.0	10.3	
33 trans-1,2-Dichloroethene	96	4.361	4.361	0.000	99	476229	10.0	10.4	
34 Hexane	57	4.787	4.787	0.000	93	590406	10.0	10.9	
36 1,1-Dichloroethane	63	5.013	5.013	0.000	96	913187	10.0	10.4	
37 Isopropyl ether	45	5.074	5.074	0.000	95	1523642	10.0	10.5	
38 2-Chloro-1,3-butadiene	53	5.129	5.129	0.000	91	743137	10.0	10.7	
40 Tert-butyl ethyl ether	59	5.616	5.616	0.000	98	1408237	10.0	10.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.824	5.824	0.000	100	1076984	100.0	113.5	
42 cis-1,2-Dichloroethene	96	5.854	5.854	0.000	82	547319	10.0	10.4	
43 2,2-Dichloropropane	77	5.866	5.866	0.000	88	748609	10.0	10.3	
44 Propionitrile	54	5.903	5.903	0.000	99	584907	200.0	201.1	
47 Methacrylonitrile	67	6.122	6.122	0.000	91	1175144	100.0	108.1	
48 Chlorobromomethane	128	6.190	6.190	0.000	94	228390	10.0	10.3	
49 Tetrahydrofuran	71	6.208	6.208	0.000	78	155153	50.0	55.6	
50 Chloroform	83	6.342	6.342	0.000	93	899884	10.0	10.3	
$ 52 Dibromofluoromethane (Surr)	113	6.561	6.561	0.000	94	534478	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.574	6.574	0.000	98	773530	10.0	10.4	
54 Cyclohexane	56	6.677	6.677	0.000	90	796170	10.0	10.8	
56 Carbon tetrachloride	117	6.787	6.787	0.000	96	682958	10.0	10.5	
55 1,1-Dichloropropene	75	6.793	6.793	0.000	96	691520	10.0	10.4	
57 Isobutyl alcohol	41	6.945	6.945	0.000	94	294776	500.0	580.3	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.025	7.025	0.000	92	107624	10.0	9.87	
59 Benzene	78	7.055	7.055	0.000	97	2097432	10.0	10.4	
60 1,2-Dichloroethane	62	7.128	7.128	0.000	97	547413	10.0	10.4	
63 Tert-amyl methyl ether	73	7.256	7.256	0.000	99	1237336	10.0	10.4	
* 64 Fluorobenzene (IS)	96	7.470	7.470	0.000	98	2179990	10.0	10.0	
65 n-Heptane	43	7.482	7.482	0.000	93	587317	10.0	10.6	
67 n-Butanol	56	7.848	7.848	0.000	88	402360	875.0	887.1	
68 Trichloroethene	95	7.957	7.957	0.000	98	552202	10.0	10.4	
69 Methylcyclohexane	83	8.268	8.268	0.000	92	819028	10.0	10.9	
70 1,2-Dichloropropane	63	8.287	8.287	0.000	86	530100	10.0	10.5	
71 2-ethoxy-2-methyl butane	87	8.305	8.305	0.000	92	788076	10.0	10.6	
72 Methyl methacrylate	69	8.378	8.378	0.000	88	228062	10.0	11.2	
73 1,4-Dioxane	88	8.390	8.390	0.000	32	47428	500.0	513.7	M
74 Dibromomethane	93	8.403	8.403	0.000	95	247699	10.0	10.5	
76 Dichlorobromomethane	83	8.634	8.634	0.000	99	642408	10.0	10.5	
77 2-Nitropropane	41	8.902	8.902	0.000	98	345002	50.0	51.6	
79 1-Bromo-2-chloroethane	63	9.037	9.037	0.000	99	495195	10.0	11.1	
80 cis-1,3-Dichloropropene	75	9.201	9.201	0.000	96	808503	10.0	10.8	
82 4-Methyl-2-pentanone (MIBK)	43	9.384	9.384	0.000	97	2827093	100.0	106.5	
$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	94	2134408	10.0	10.1	
84 Toluene	92	9.604	9.604	0.000	98	1340114	10.0	10.4	
85 trans-1,3-Dichloropropene	75	9.872	9.872	0.000	93	652095	10.0	10.8	
104 Ethyl methacrylate	69	9.945	9.945	0.000	89	498734	10.0	11.5	
106 1,1,2-Trichloroethane	97	10.085	10.085	0.000	91	349512	10.0	10.2	
107 Tetrachloroethene	166	10.177	10.177	0.000	98	624529	10.0	10.4	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	90	617884	10.0	10.6	
109 2-Hexanone	43	10.305	10.305	0.000	96	1918103	100.0	109.3	
111 Chlorodibromomethane	129	10.469	10.469	0.000	90	453939	10.0	10.7	
112 Ethylene Dibromide	107	10.585	10.585	0.000	98	343565	10.0	10.8	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1632214	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	97	733881	10.0	10.2	
115 Chlorobenzene	112	11.054	11.054	0.000	95	1485707	10.0	10.5	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	96	525952	10.0	10.6	
117 Ethylbenzene	91	11.140	11.140	0.000	98	2641863	10.0	10.6	
119 m-Xylene & p-Xylene	106	11.262	11.262	0.000	100	2032315	20.0	21.4	
120 o-Xylene	106	11.591	11.591	0.000	97	992658	10.0	10.6	
121 Styrene	104	11.609	11.609	0.000	94	1632673	10.0	11.2	
122 Bromoform	173	11.768	11.768	0.000	98	281032	10.0	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 Isopropylbenzene	105	11.896	11.896	0.000	96	2432389	10.0	10.8	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	92	804668	10.0	10.2	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.146	0.000	92	437490	10.0	10.5	
128 Bromobenzene	156	12.158	12.158	0.000	97	625710	10.0	10.3	
129 trans-1,4-Dichloro-2-butene	53	12.170	12.170	0.000	91	1159365	100.0	109.0	
130 1,2,3-Trichloropropane	110	12.188	12.188	0.000	79	113942	10.0	10.5	
131 N-Propylbenzene	91	12.231	12.231	0.000	99	3062153	10.0	10.5	
132 2-Chlorotoluene	126	12.304	12.304	0.000	97	629303	10.0	10.6	
133 1,3,5-Trimethylbenzene	105	12.365	12.365	0.000	94	2188011	10.0	10.7	
134 4-Chlorotoluene	126	12.396	12.396	0.000	98	638169	10.0	10.6	
135 tert-Butylbenzene	134	12.609	12.609	0.000	93	476317	10.0	10.4	
136 Pentachloroethane	167	12.640	12.640	0.000	93	368744	10.0	11.6	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	97	2208421	10.0	10.8	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	2710113	10.0	10.7	
139 1,3-Dichlorobenzene	146	12.871	12.871	0.000	98	1224157	10.0	10.7	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	2383370	10.0	11.0	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	94	922380	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.950	12.950	0.000	95	1240941	10.0	10.5	
143 1,2,3-Trimethylbenzene	120	12.957	12.957	0.000	99	971057	10.0	10.5	
144 Benzyl chloride	126	13.024	13.024	0.000	99	187101	10.0	11.7	
145 p-Diethylbenzene	119	13.158	13.158	0.000	93	1396089	10.0	11.0	M
146 n-Butylbenzene	92	13.176	13.176	0.000	96	1121539	10.0	11.3	
147 1,2-Dichlorobenzene	146	13.206	13.206	0.000	98	1097357	10.0	10.5	
149 1,2-Dibromo-3-Chloropropane	155	13.755	13.755	0.000	88	61851	10.0	11.1	
150 1,3,5-Trichlorobenzene	180	13.877	13.877	0.000	98	870172	10.0	11.1	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	726353	10.0	11.8	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	95	251887	10.0	10.9	
153 Naphthalene	128	14.481	14.481	0.000	97	1218640	10.0	11.8	
154 1,2,3-Trichlorobenzene	180	14.621	14.621	0.000	95	574468	10.0	11.6	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00137	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00220	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00144	Amount Added: 10.00	Units: uL	
MSV_LLcentISS_00012	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 18-Jul-2024 22:32:09 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X17.D

Injection Date: 17-Jul-2024 19:14:30 Instrument ID: 19094 Operator ID: knk41612

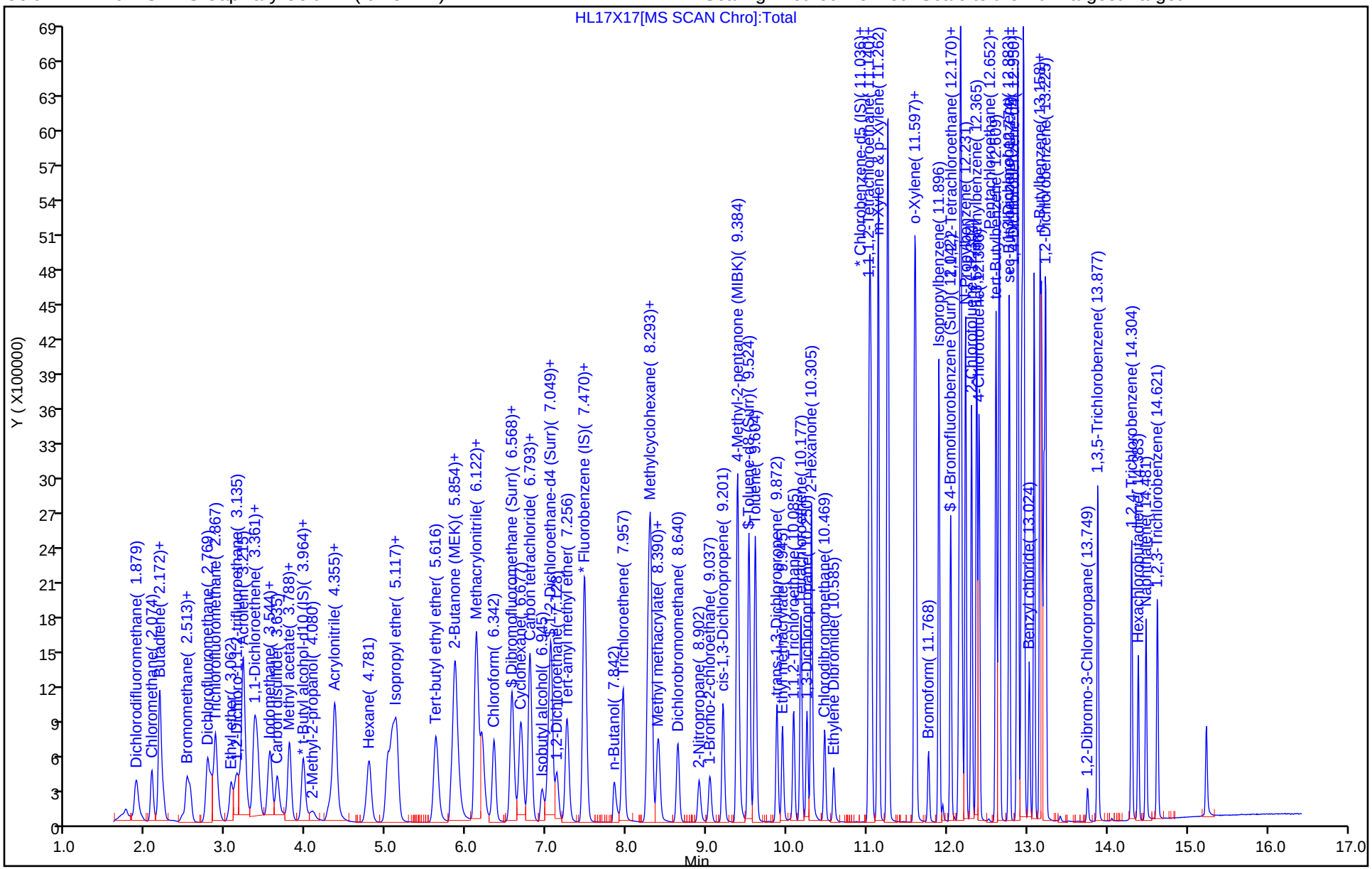
Lims ID: ICIS 10 Worklist Smp#: 18

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 17

Method: MSV_19094_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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

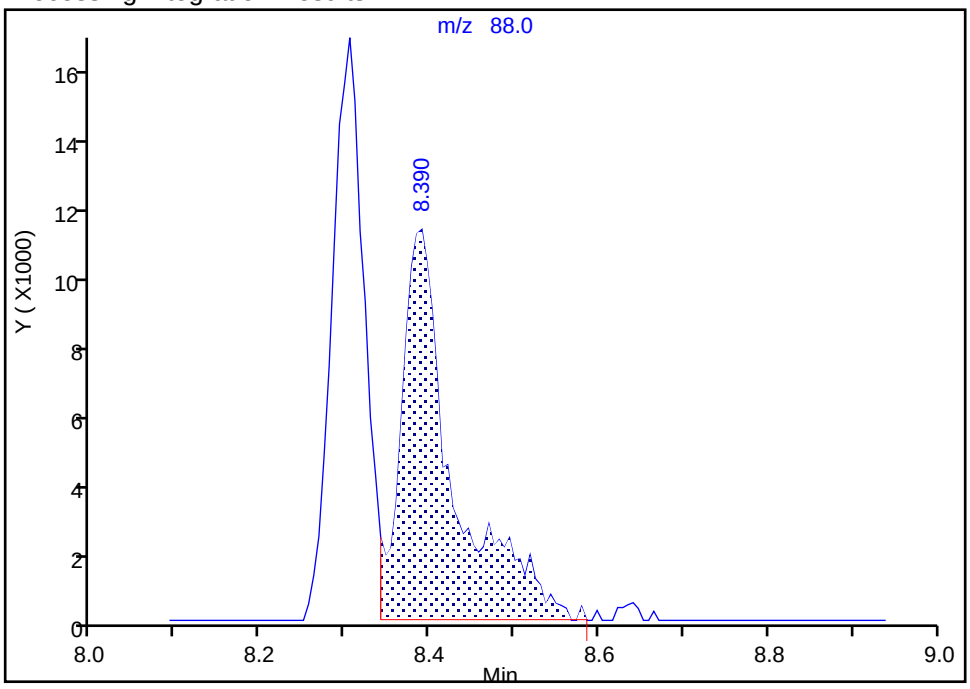
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X17.D
Injection Date: 17-Jul-2024 19:14:30 Instrument ID: 19094
Lims ID: ICIS 10
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

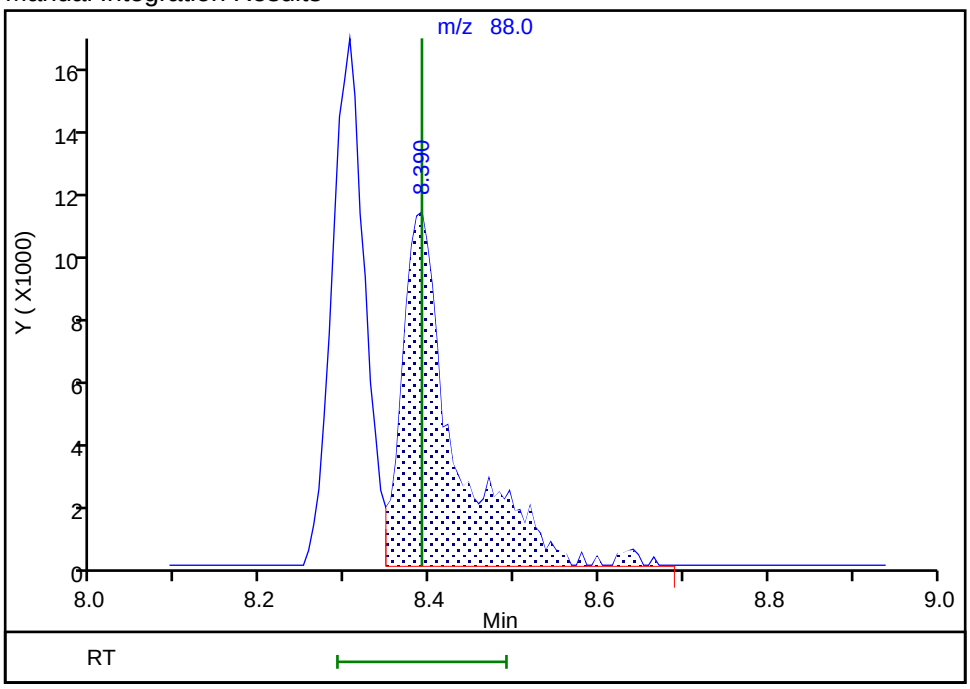
Processing Integration Results

RT: 8.39
Area: 47358
Amount: 535.5925
Amount Units: ug/l



Manual Integration Results

RT: 8.39
Area: 47428
Amount: 513.7094
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 09:02:51 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Lims ID: IC std7 25
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 17-Jul-2024 19:35:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0119602-019
Misc. Info.: IC std7 25
Operator ID: knk41612 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jul-2024 22:32:16 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1666

First Level Reviewer: DVW2 Date: 18-Jul-2024 08:16:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.873	1.879	-0.006	99	1390259	25.0	24.4	
5 Chloromethane	50	2.068	2.074	-0.006	99	1679210	25.0	23.6	
7 Butadiene	39	2.166	2.166	0.000	90	1555751	25.0	25.6	
6 Vinyl chloride	62	2.178	2.178	0.000	98	1591540	25.0	24.4	
9 Bromomethane	94	2.507	2.513	-0.006	91	1163825	25.0	25.5	
10 Chloroethane	64	2.550	2.550	0.000	100	956602	25.0	25.1	
11 Dichlorofluoromethane	67	2.763	2.769	-0.006	97	2580407	25.0	24.6	
12 Trichlorofluoromethane	101	2.867	2.867	0.000	96	1932750	25.0	24.6	
14 Ethyl ether	59	3.056	3.056	0.000	92	772815	25.0	26.1	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.135	3.135	0.000	96	1412036	25.0	24.2	
16 Acrolein	56	3.208	3.215	-0.006	99	6650715	1252.7	1454.9	
17 1,1-Dichloroethene	96	3.349	3.349	0.000	98	1005469	25.0	24.9	
19 Acetone	43	3.367	3.367	0.000	100	1448343	250.0	253.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.385	3.391	-0.006	92	1032485	25.0	26.0	
21 Iodomethane	142	3.532	3.532	0.000	98	2023940	25.0	25.2	
22 Ethyl bromide	108	3.556	3.556	0.000	99	903862	25.0	25.2	
23 Carbon disulfide	76	3.635	3.635	0.000	99	2908751	25.0	25.3	
24 Methyl acetate	43	3.757	3.769	-0.012	97	432127	25.0	27.9	M
26 3-Chloro-1-propene	41	3.788	3.788	0.000	91	1788984	25.0	25.4	
27 Methylene Chloride	84	3.964	3.964	0.000	92	1180149	25.0	23.5	
* 28 t-Butyl alcohol-d10 (IS)	65	3.952	3.970	-0.018	97	107501	50.0	50.0	
29 2-Methyl-2-propanol	59	4.074	4.080	-0.006	100	758970	500.0	482.7	
31 Acrylonitrile	53	4.275	4.281	-0.006	98	548794	62.5	70.8	
32 Methyl tert-butyl ether	73	4.342	4.348	-0.006	95	2778282	25.0	25.0	
33 trans-1,2-Dichloroethene	96	4.355	4.361	-0.006	99	1199328	25.0	25.4	
34 Hexane	57	4.781	4.787	-0.006	92	1485686	25.0	26.7	
36 1,1-Dichloroethane	63	5.013	5.013	0.000	96	2271882	25.0	25.2	
37 Isopropyl ether	45	5.074	5.074	0.000	95	3830292	25.0	25.7	
38 2-Chloro-1,3-butadiene	53	5.123	5.129	-0.006	91	1884751	25.0	26.4	
40 Tert-butyl ethyl ether	59	5.616	5.616	0.000	98	3508822	25.0	25.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.818	5.824	-0.006	100	2730512	250.0	289.0	
42 cis-1,2-Dichloroethene	96	5.854	5.854	0.000	82	1376940	25.0	25.6	
43 2,2-Dichloropropane	77	5.866	5.866	0.000	87	1868801	25.0	24.9	
44 Propionitrile	54	5.897	5.903	-0.006	99	1515126	500.0	516.7	
47 Methacrylonitrile	67	6.122	6.122	0.000	91	3001946	250.0	277.4	
S 46 1,2-Dichloroethene, Total	100				0			51.0	
48 Chlorobromomethane	128	6.190	6.190	0.000	95	576871	25.0	25.4	
49 Tetrahydrofuran	71	6.208	6.208	0.000	81	399453	125.0	143.7	
50 Chloroform	83	6.342	6.342	0.000	93	2246519	25.0	25.1	
$ 52 Dibromofluoromethane (Surr)	113	6.561	6.561	0.000	94	547498	10.0	9.99	
53 1,1,1-Trichloroethane	97	6.574	6.574	0.000	98	1934110	25.0	25.3	
54 Cyclohexane	56	6.677	6.677	0.000	90	1980148	25.0	26.2	
56 Carbon tetrachloride	117	6.793	6.787	0.006	81	1717084	25.0	25.8	
55 1,1-Dichloropropene	75	6.793	6.793	0.000	96	1751486	25.0	25.8	
57 Isobutyl alcohol	41	6.939	6.945	-0.006	94	731832	1250.0	1447.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.025	7.025	0.000	92	111324	10.0	9.94	
59 Benzene	78	7.055	7.055	0.000	96	5276356	25.0	25.6	
60 1,2-Dichloroethane	62	7.128	7.128	0.000	98	1330758	25.0	24.6	
63 Tert-amyl methyl ether	73	7.256	7.256	0.000	99	3115580	25.0	25.5	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2238426	10.0	10.0	
65 n-Heptane	43	7.482	7.482	0.000	93	1494791	25.0	26.3	
67 n-Butanol	56	7.842	7.848	-0.006	87	1014924	2187.5	2188.3	
68 Trichloroethene	95	7.951	7.957	-0.006	99	1392945	25.0	25.7	
69 Methylcyclohexane	83	8.268	8.268	0.000	91	2060812	25.0	26.8	
70 1,2-Dichloropropane	63	8.287	8.287	0.000	97	1354768	25.0	26.0	
71 2-ethoxy-2-methyl butane	87	8.305	8.305	0.000	93	2011538	25.0	26.3	
72 Methyl methacrylate	69	8.378	8.378	0.000	90	596211	25.0	29.3	
73 1,4-Dioxane	88	8.384	8.390	-0.006	36	107802	1250.0	1248.4	M
74 Dibromomethane	93	8.396	8.403	-0.007	96	633709	25.0	26.2	
76 Dichlorobromomethane	83	8.640	8.634	0.006	99	1638596	25.0	26.0	
77 2-Nitropropane	41	8.902	8.902	0.000	98	872051	125.0	131.0	
79 1-Bromo-2-chloroethane	63	9.037	9.037	0.000	99	1227279	25.0	26.8	
80 cis-1,3-Dichloropropene	75	9.201	9.201	0.000	96	2061318	25.0	26.9	
82 4-Methyl-2-pentanone (MIBK)	43	9.384	9.384	0.000	96	7262315	250.0	274.9	
$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	93	2206861	10.0	10.1	
84 Toluene	92	9.604	9.604	0.000	98	3402986	25.0	25.6	
85 trans-1,3-Dichloropropene	75	9.872	9.872	0.000	93	1689983	25.0	27.2	
104 Ethyl methacrylate	69	9.945	9.945	0.000	89	1314201	25.0	29.3	
S 105 1,3-Dichloropropene, Total	100				0			54.1	
106 1,1,2-Trichloroethane	97	10.085	10.085	0.000	90	886188	25.0	25.1	
107 Tetrachloroethene	166	10.177	10.177	0.000	98	1569688	25.0	25.4	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	90	1567708	25.0	26.1	
109 2-Hexanone	43	10.305	10.305	0.000	96	4939746	250.0	282.8	
111 Chlorodibromomethane	129	10.469	10.469	0.000	90	1171893	25.0	26.8	
112 Ethylene Dibromide	107	10.585	10.585	0.000	99	867822	25.0	26.4	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1683257	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	97	1855929	25.0	25.0	
115 Chlorobenzene	112	11.048	11.054	-0.006	95	3730004	25.0	25.5	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	96	1339564	25.0	26.2	
117 Ethylbenzene	91	11.140	11.140	0.000	99	6744183	25.0	26.1	
S 118 Xylenes, Total	106				0			79.1	
119 m-Xylene & p-Xylene	106	11.262	11.262	0.000	100	5180338	50.0	52.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 o-Xylene	106	11.591	11.591	0.000	97	2535817	25.0	26.2	
121 Styrene	104	11.609	11.609	0.000	95	4192983	25.0	28.0	
122 Bromoform	173	11.768	11.768	0.000	98	739939	25.0	27.0	
123 Isopropylbenzene	105	11.896	11.896	0.000	96	6184746	25.0	26.5	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	92	821565	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.146	0.000	92	1114431	25.0	25.7	
128 Bromobenzene	156	12.158	12.158	0.000	96	1589303	25.0	25.2	
129 trans-1,4-Dichloro-2-butene	53	12.170	12.170	0.000	91	3008869	250.0	284.2	
130 1,2,3-Trichloropropane	110	12.188	12.188	0.000	81	289878	25.0	25.8	
131 N-Propylbenzene	91	12.231	12.231	0.000	99	7892215	25.0	26.1	
132 2-Chlorotoluene	126	12.304	12.304	0.000	97	1592312	25.0	25.7	
133 1,3,5-Trimethylbenzene	105	12.365	12.365	0.000	94	5599818	25.0	26.4	
134 4-Chlorotoluene	126	12.396	12.396	0.000	98	1638599	25.0	26.2	
135 tert-Butylbenzene	134	12.609	12.609	0.000	93	1220631	25.0	25.7	
136 Pentachloroethane	167	12.640	12.640	0.000	93	923575	25.0	27.9	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	97	5678638	25.0	26.7	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	6953178	25.0	26.5	
139 1,3-Dichlorobenzene	146	12.871	12.871	0.000	98	3135342	25.0	26.3	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	6079183	25.0	26.9	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	93	959394	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.950	12.950	0.000	94	3114969	25.0	25.2	
143 1,2,3-Trimethylbenzene	120	12.957	12.957	0.000	98	2496878	25.0	26.0	
144 Benzyl chloride	126	13.024	13.024	0.000	99	481305	25.0	28.9	
145 p-Diethylbenzene	119	13.158	13.158	0.000	93	3601409	25.0	27.3	
146 n-Butylbenzene	92	13.176	13.176	0.000	98	2888960	25.0	27.9	
147 1,2-Dichlorobenzene	146	13.206	13.206	0.000	98	2827219	25.0	25.9	
149 1,2-Dibromo-3-Chloropropane	155	13.749	13.755	-0.006	88	163782	25.0	28.3	
150 1,3,5-Trichlorobenzene	180	13.877	13.877	0.000	98	2208226	25.0	27.1	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	1867004	25.0	29.3	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	95	637788	25.0	26.5	
153 Naphthalene	128	14.481	14.481	0.000	97	3184979	25.0	29.8	
154 1,2,3-Trichlorobenzene	180	14.621	14.621	0.000	96	1487843	25.0	29.0	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00137	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00220	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00144	Amount Added: 25.00	Units: uL	
MSV_LLcentISS_00012	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 18-Jul-2024 22:32:17 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Injection Date: 17-Jul-2024 19:35:30 Instrument ID: 19094 Operator ID: knk41612

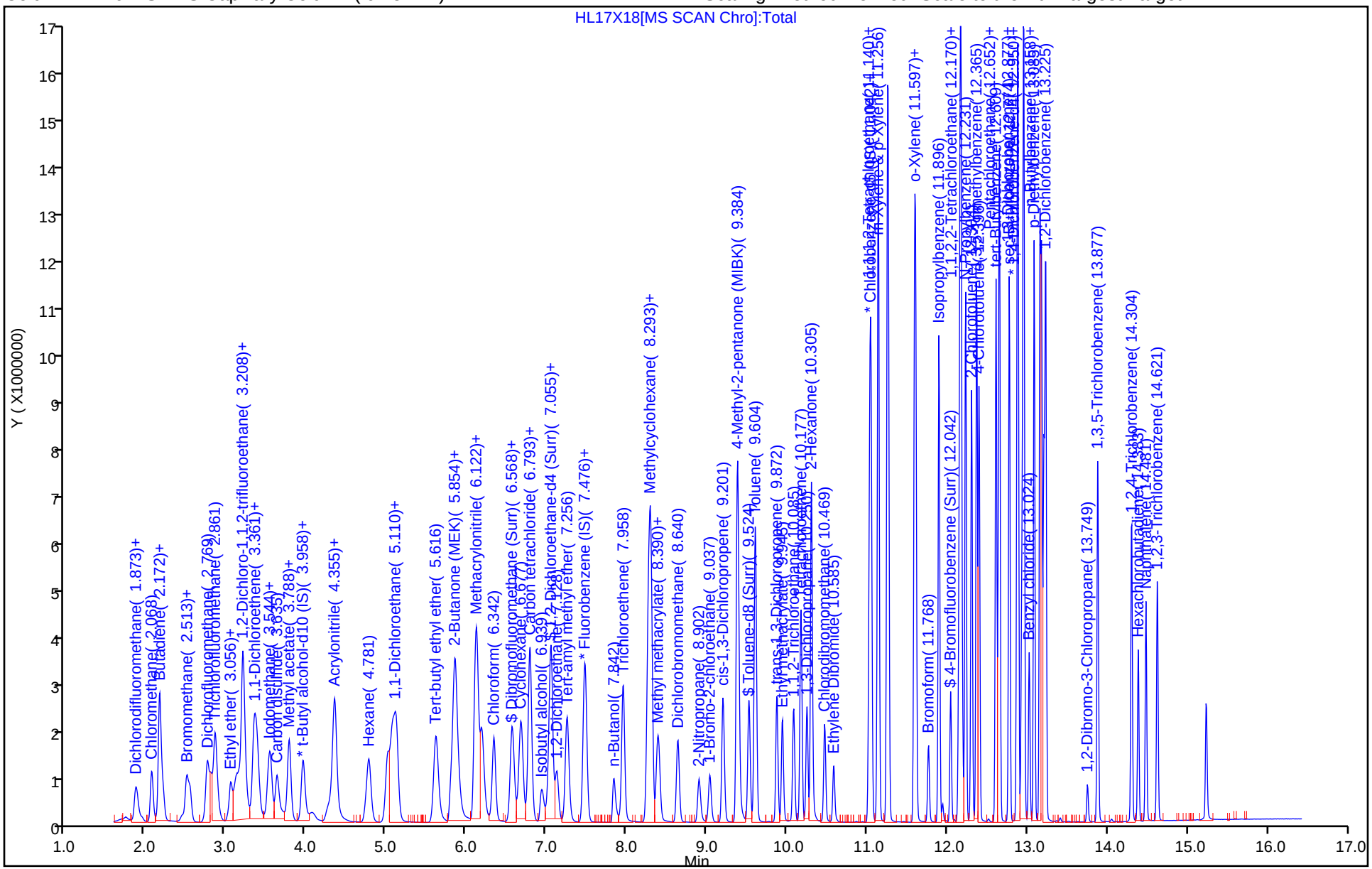
Lims ID: IC std7 25 Worklist Smp#: 19

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 18

Method: MSV_19094_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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

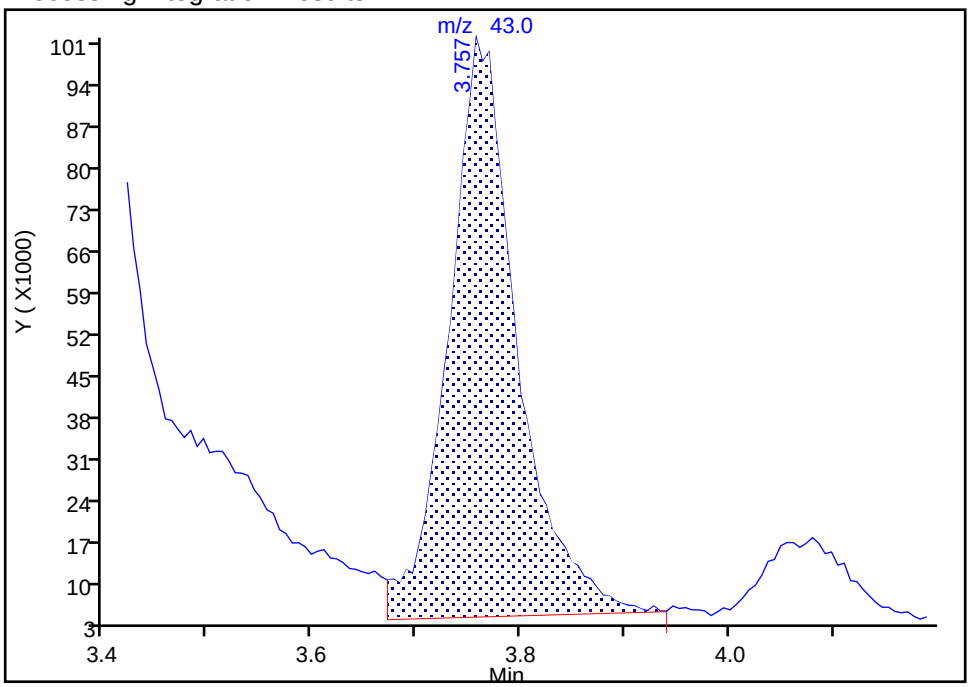
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Injection Date:	17-Jul-2024 19:35:30	Instrument ID:	19094		
Lims ID:	IC std7 25				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Methyl acetate, CAS: 79-20-9

Signal: 1

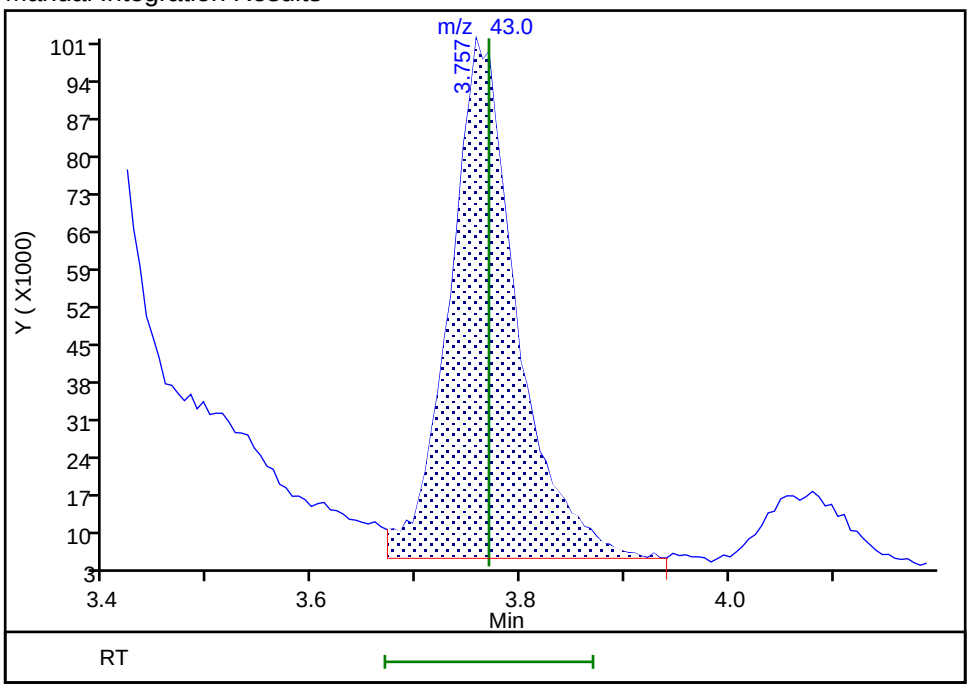
Processing Integration Results

RT: 3.76
Area: 446439
Amount: 28.329286
Amount Units: ug/l



Manual Integration Results

RT: 3.76
Area: 432127
Amount: 27.875704
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 08:15:56 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

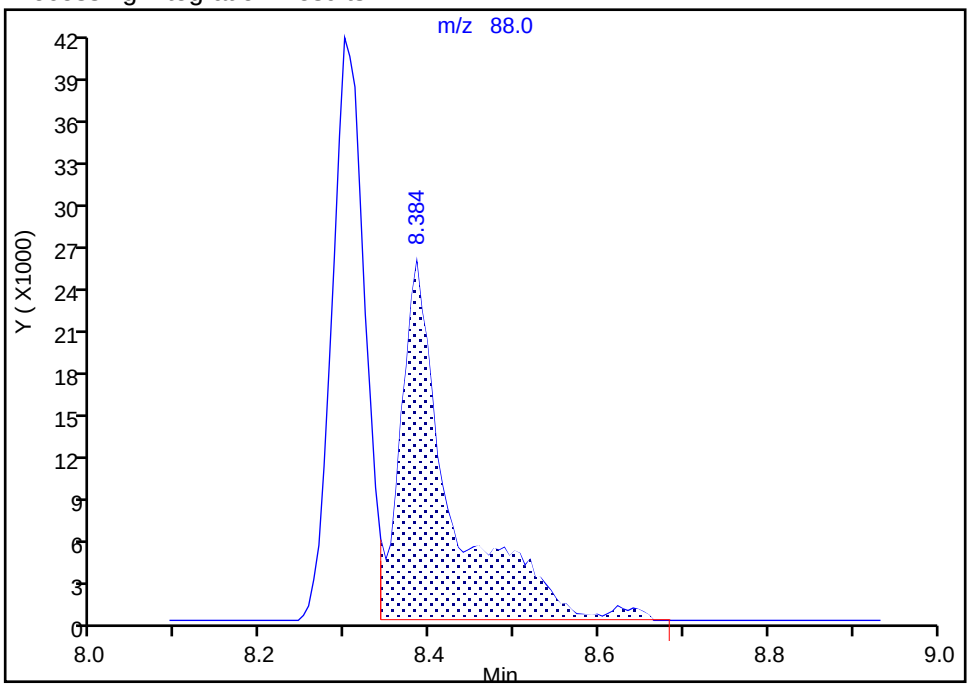
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Injection Date: 17-Jul-2024 19:35:30 Instrument ID: 19094
Lims ID: IC std7 25
Client ID:
Operator ID: knk41612 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

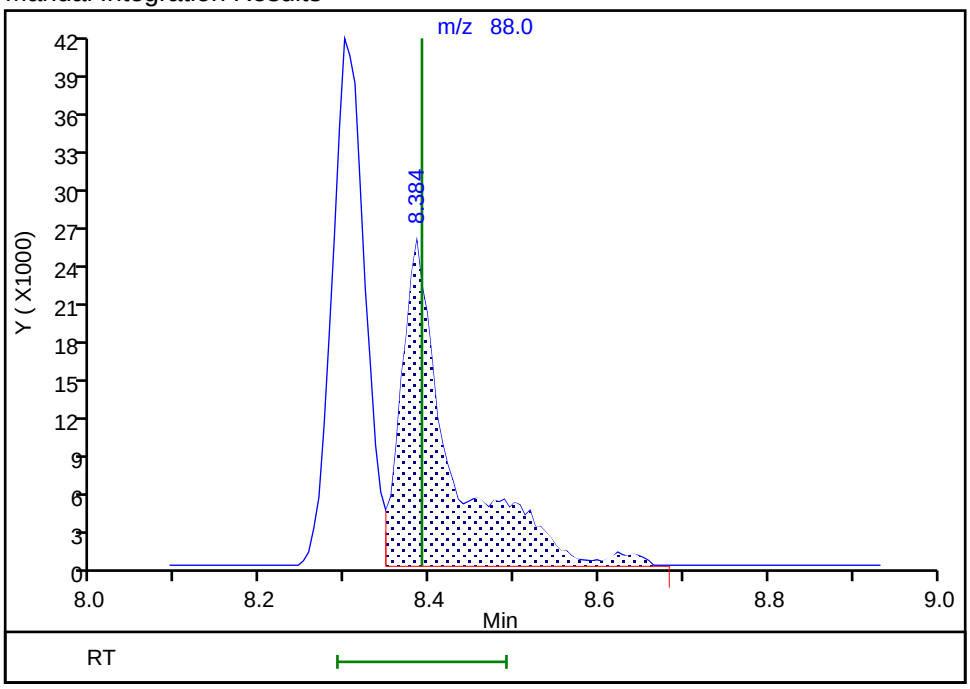
Processing Integration Results

RT: 8.38
Area: 109941
Amount: 1236.9437
Amount Units: ug/l



Manual Integration Results

RT: 8.38
Area: 107802
Amount: 1248.4188
Amount Units: ug/l



Reviewer: DVW2, 18-Jul-2024 09:03:10 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak 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

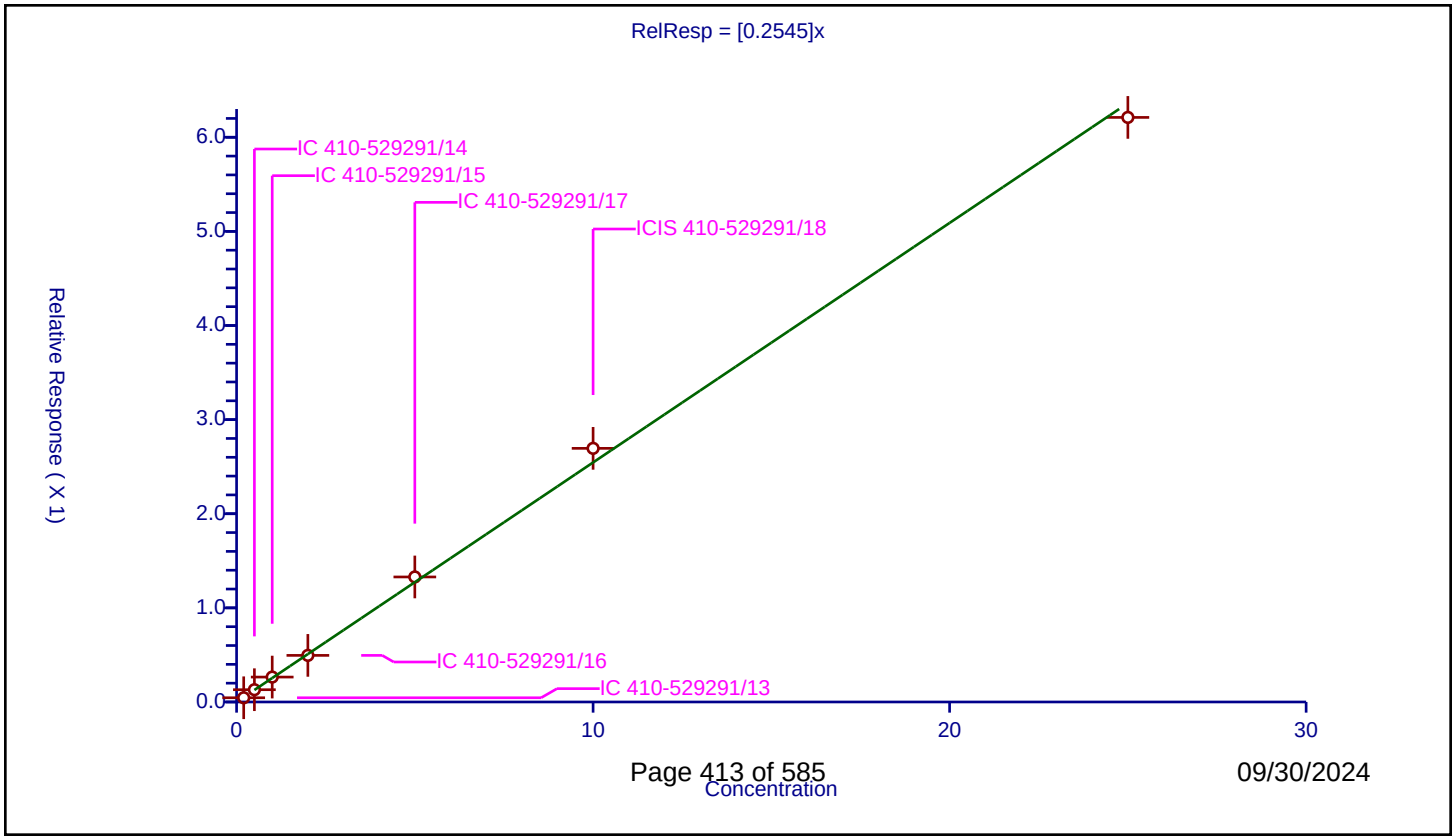
Curve Coefficients

Intercept:	0
Slope:	0.2545

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.044929	10.0	2065681.0	0.224647	Y
2	IC 410-529291/14	0.5	0.130362	10.0	2062328.0	0.260725	Y
3	IC 410-529291/15	1.0	0.264819	10.0	2092414.0	0.264819	Y
4	IC 410-529291/16	2.0	0.495144	10.0	2082929.0	0.247572	Y
5	IC 410-529291/17	5.0	1.328378	10.0	2147537.0	0.265676	Y
6	ICIS 410-529291/18	10.0	2.694838	10.0	2179990.0	0.269484	Y
7	IC 410-529291/19	25.0	6.210878	10.0	2238426.0	0.248435	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

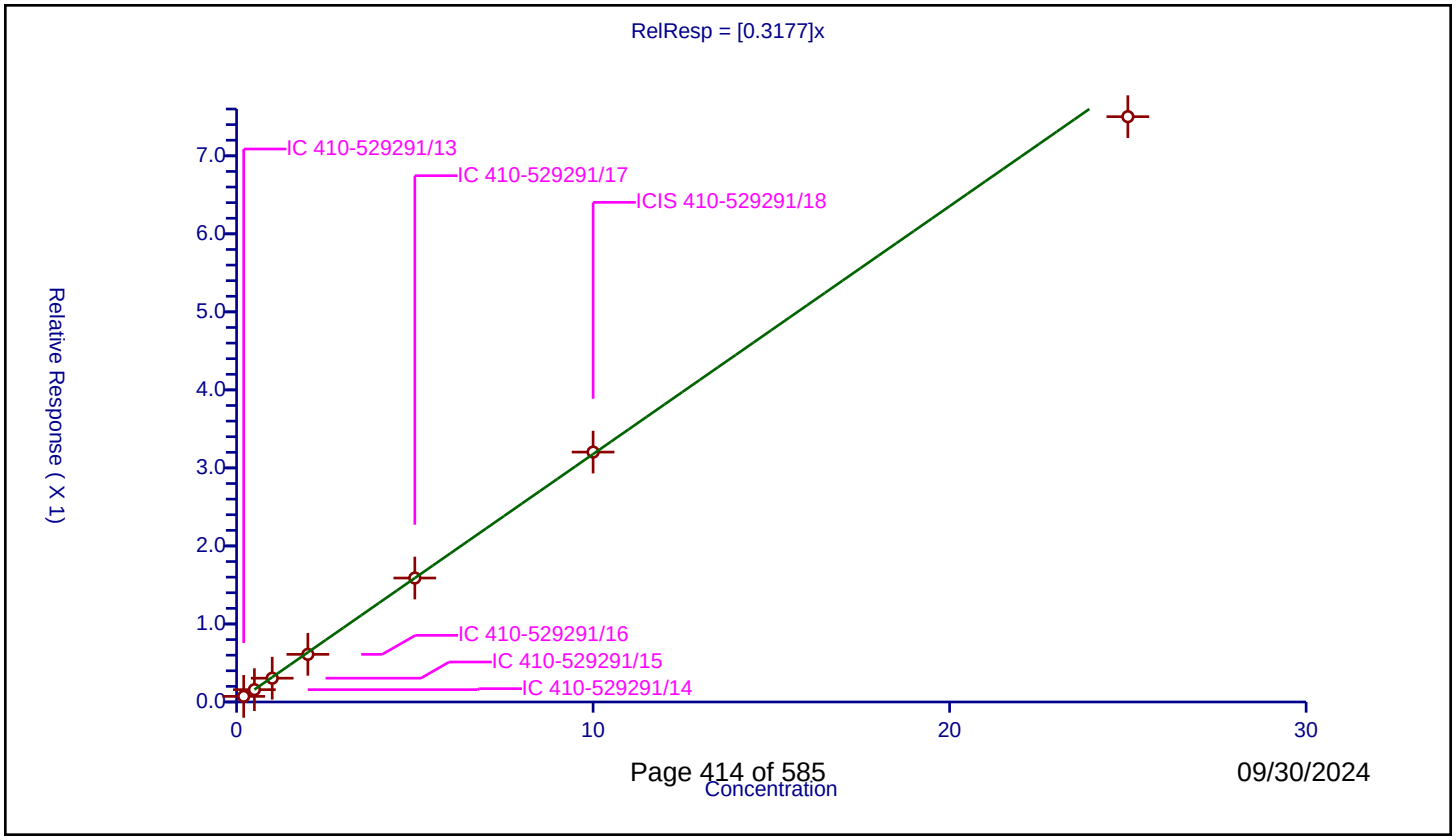
Curve Coefficients

Intercept:	0
Slope:	0.3177

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.071923	10.0	2065681.0	0.359615	Y
2	IC 410-529291/14	0.5	0.157953	10.0	2062328.0	0.315905	Y
3	IC 410-529291/15	1.0	0.305097	10.0	2092414.0	0.305097	Y
4	IC 410-529291/16	2.0	0.610674	10.0	2082929.0	0.305337	Y
5	IC 410-529291/17	5.0	1.588829	10.0	2147537.0	0.317766	Y
6	ICIS 410-529291/18	10.0	3.203129	10.0	2179990.0	0.320313	Y
7	IC 410-529291/19	25.0	7.501745	10.0	2238426.0	0.30007	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

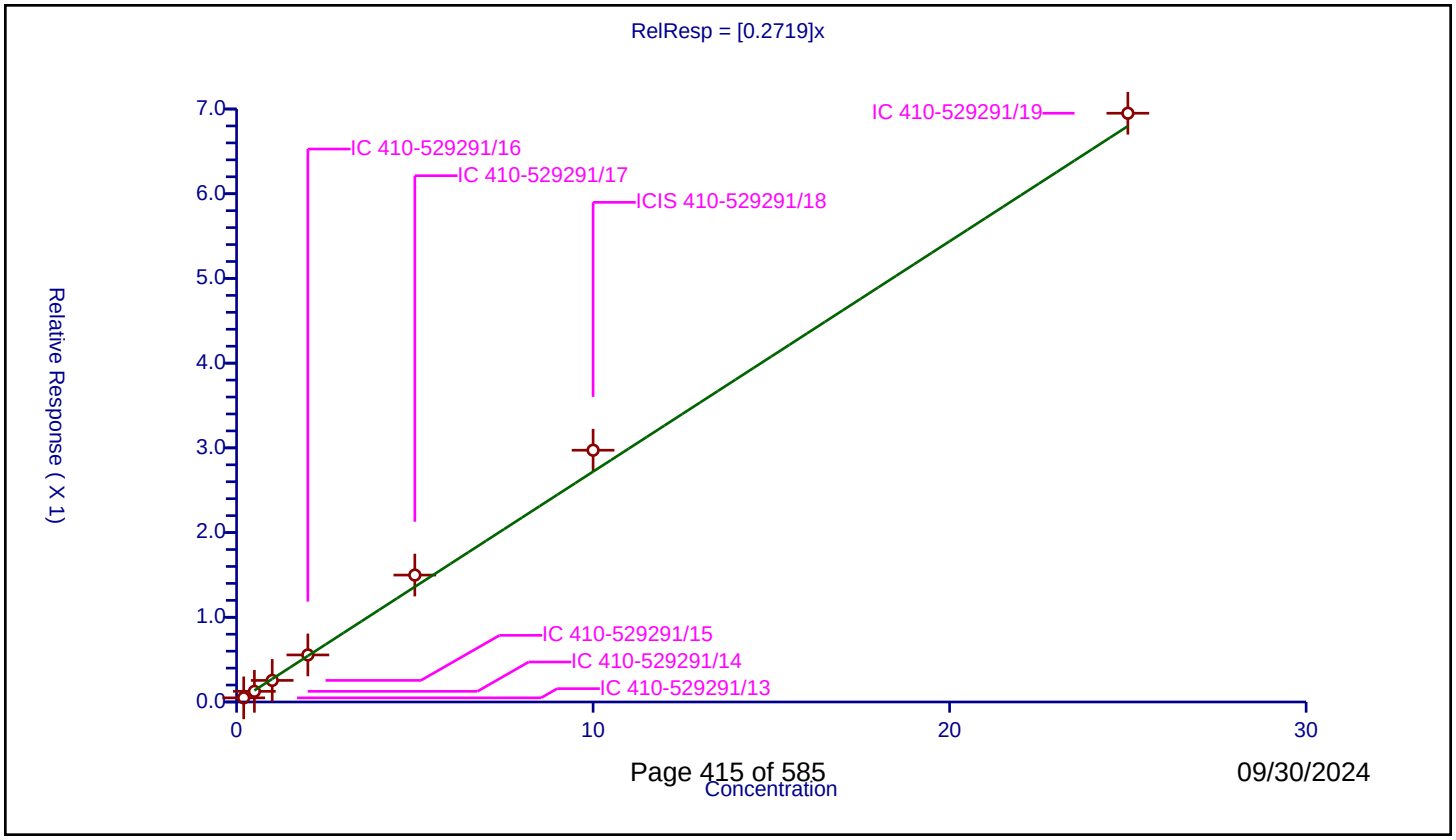
Curve Coefficients

Intercept:	0
Slope:	0.2719

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.048923	10.0	2065681.0	0.244617	Y
2	IC 410-529291/14	0.5	0.125722	10.0	2062328.0	0.251444	Y
3	IC 410-529291/15	1.0	0.254854	10.0	2092414.0	0.254854	Y
4	IC 410-529291/16	2.0	0.555353	10.0	2082929.0	0.277676	Y
5	IC 410-529291/17	5.0	1.498186	10.0	2147537.0	0.299637	Y
6	ICIS 410-529291/18	10.0	2.972215	10.0	2179990.0	0.297222	Y
7	IC 410-529291/19	25.0	6.950201	10.0	2238426.0	0.278008	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

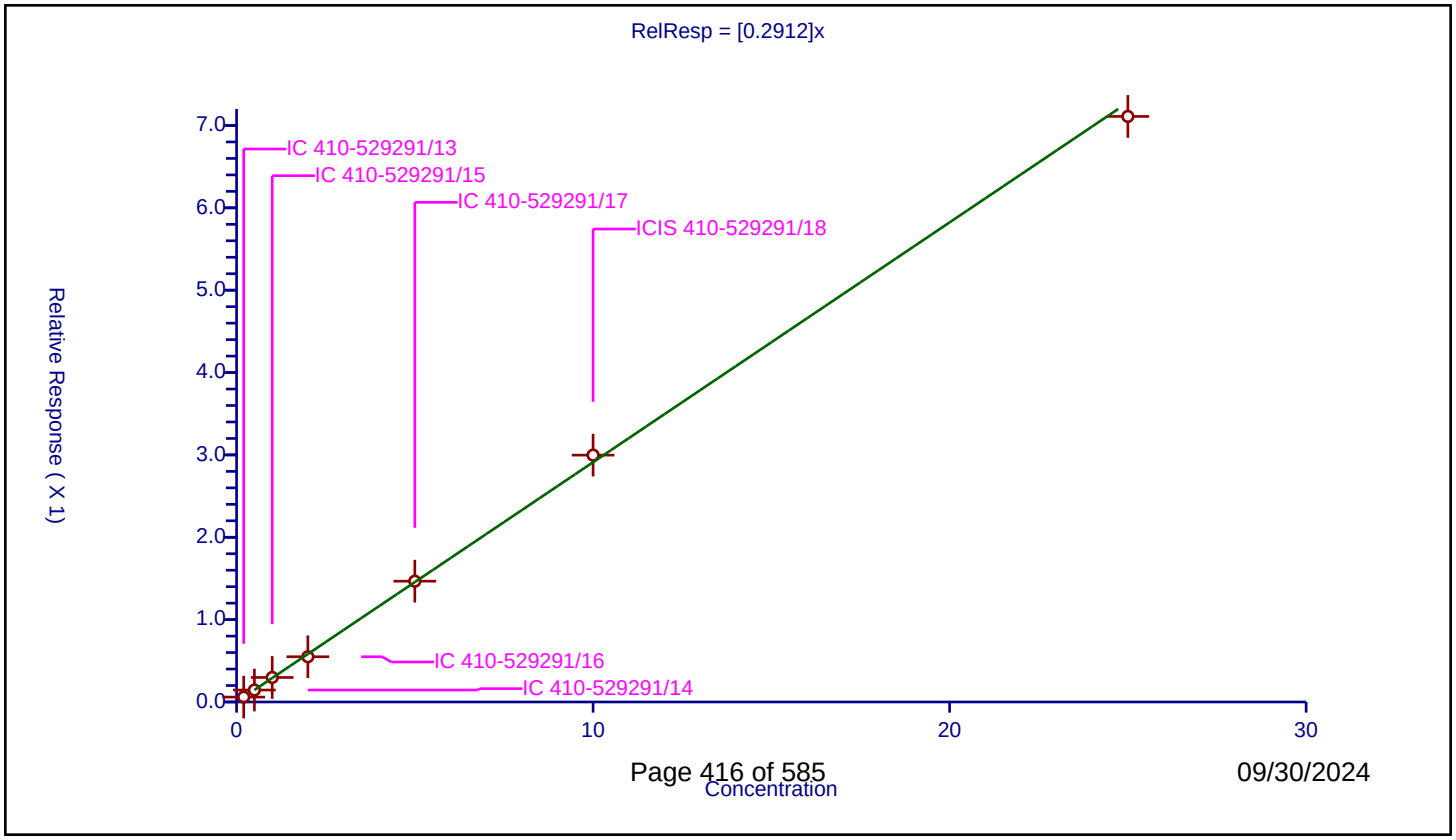
Curve Coefficients

Intercept:	0
Slope:	0.2912

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.059545	10.0	2065681.0	0.297723	Y
2	IC 410-529291/14	0.5	0.145248	10.0	2062328.0	0.290497	Y
3	IC 410-529291/15	1.0	0.297866	10.0	2092414.0	0.297866	Y
4	IC 410-529291/16	2.0	0.549159	10.0	2082929.0	0.27458	Y
5	IC 410-529291/17	5.0	1.466811	10.0	2147537.0	0.293362	Y
6	ICIS 410-529291/18	10.0	2.997344	10.0	2179990.0	0.299734	Y
7	IC 410-529291/19	25.0	7.110085	10.0	2238426.0	0.284403	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

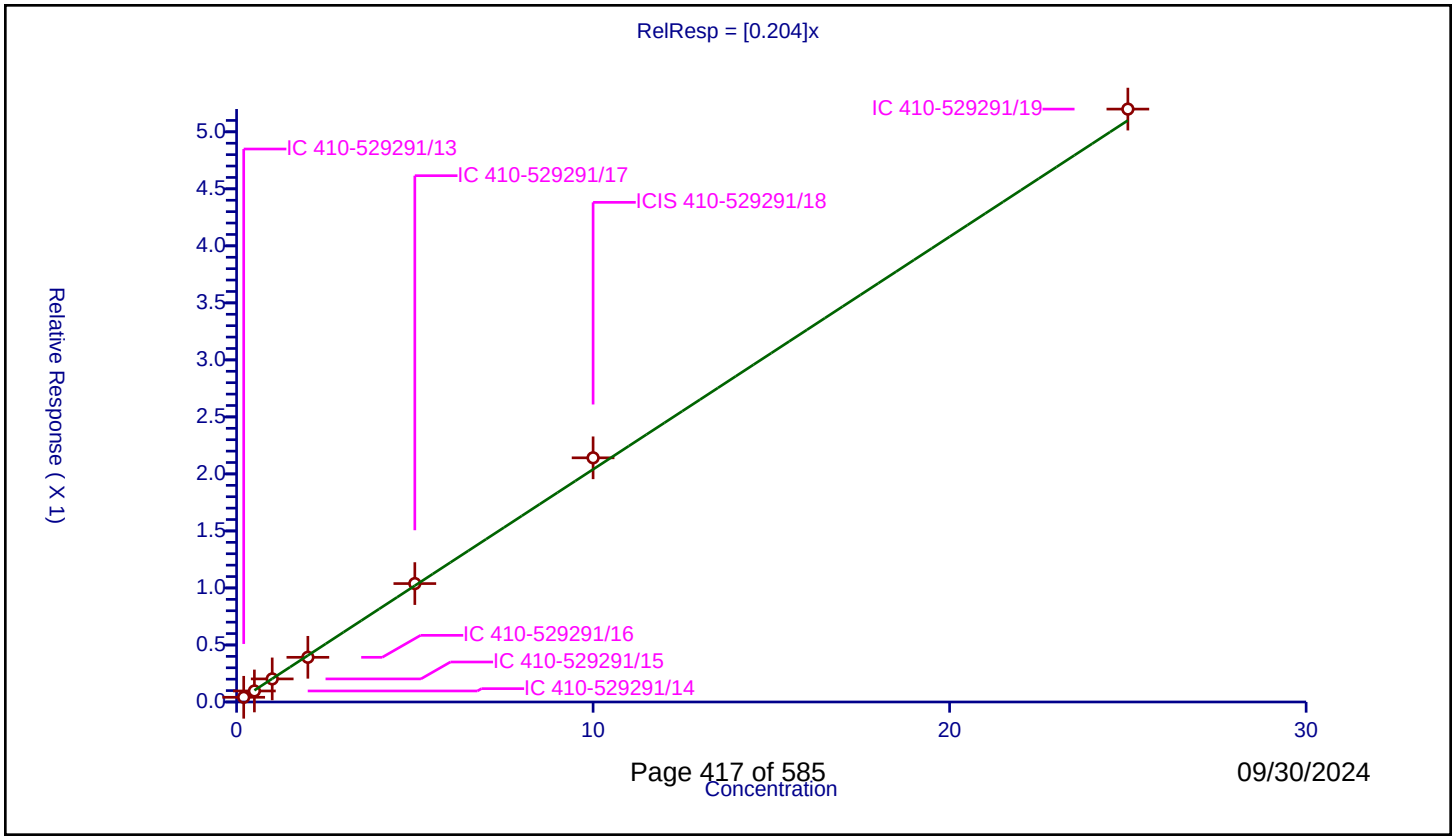
Curve Coefficients

Intercept:	0
Slope:	0.204

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.041284	10.0	2065681.0	0.206421	Y
2	IC 410-529291/14	0.5	0.096784	10.0	2062328.0	0.193568	Y
3	IC 410-529291/15	1.0	0.202369	10.0	2092414.0	0.202369	Y
4	IC 410-529291/16	2.0	0.391756	10.0	2082929.0	0.195878	Y
5	IC 410-529291/17	5.0	1.038478	10.0	2147537.0	0.207696	Y
6	ICIS 410-529291/18	10.0	2.14118	10.0	2179990.0	0.214118	Y
7	IC 410-529291/19	25.0	5.199301	10.0	2238426.0	0.207972	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

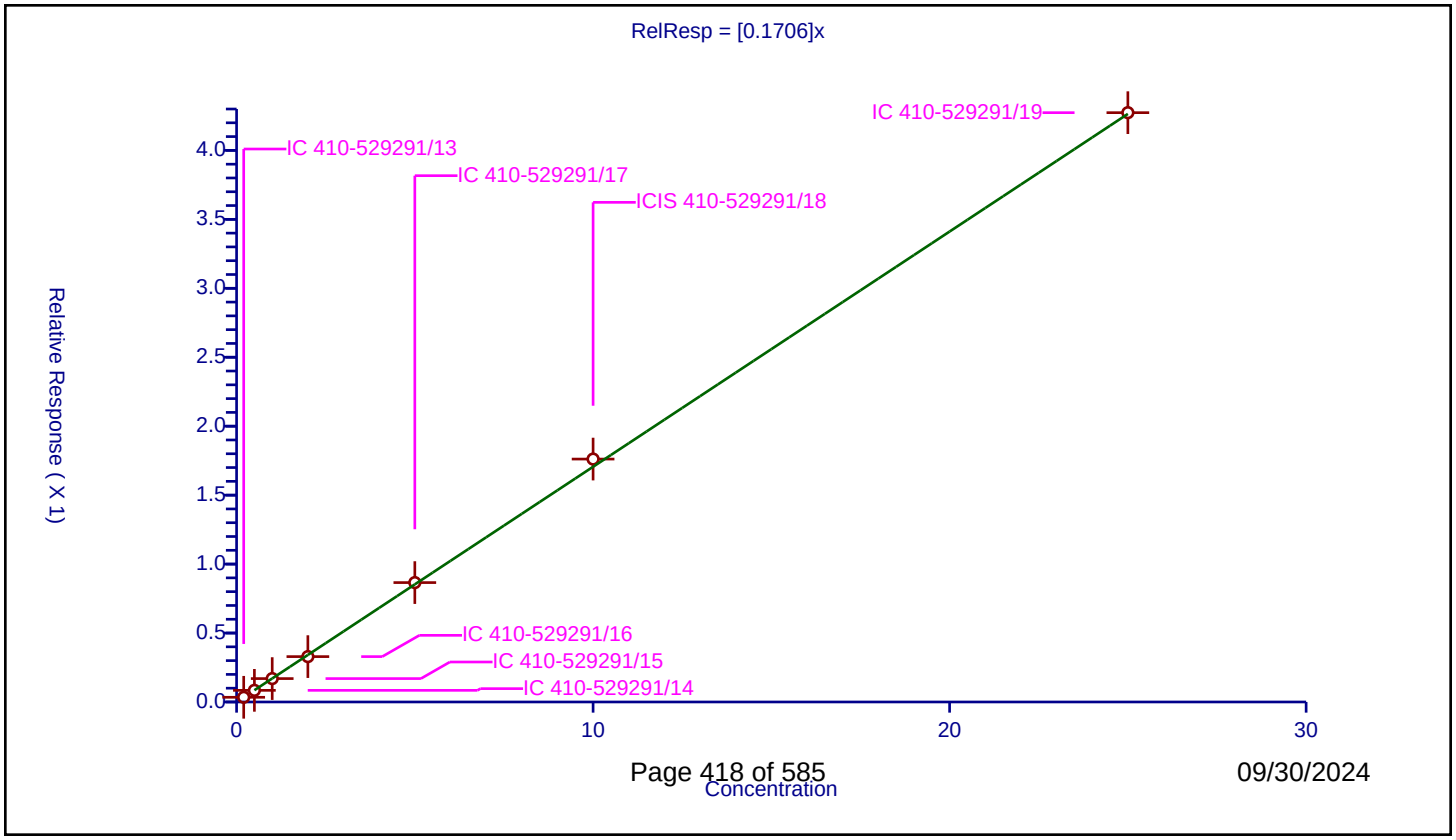
Curve Coefficients

Intercept:	0
Slope:	0.1706

Error Coefficients

Relative Standard Deviation:	2.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.034129	10.0	2065681.0	0.170646	Y
2	IC 410-529291/14	0.5	0.084434	10.0	2062328.0	0.168867	Y
3	IC 410-529291/15	1.0	0.169751	10.0	2092414.0	0.169751	Y
4	IC 410-529291/16	2.0	0.328955	10.0	2082929.0	0.164478	Y
5	IC 410-529291/17	5.0	0.865876	10.0	2147537.0	0.173175	Y
6	ICIS 410-529291/18	10.0	1.761572	10.0	2179990.0	0.176157	Y
7	IC 410-529291/19	25.0	4.273548	10.0	2238426.0	0.170942	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

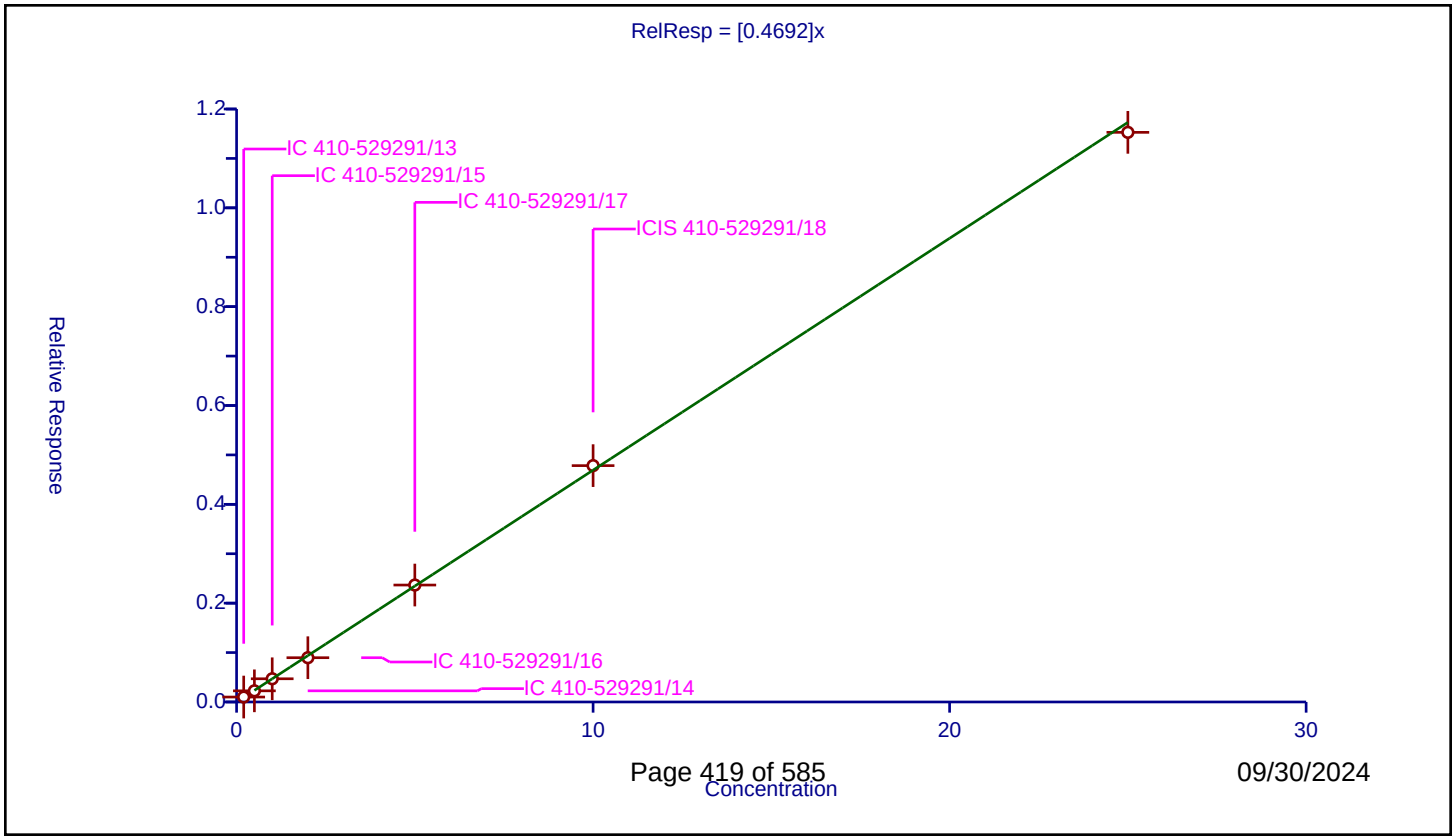
Curve Coefficients

Intercept:	0
Slope:	0.4692

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.100325	10.0	2065681.0	0.501626	Y
2	IC 410-529291/14	0.5	0.226026	10.0	2062328.0	0.452052	Y
3	IC 410-529291/15	1.0	0.469897	10.0	2092414.0	0.469897	Y
4	IC 410-529291/16	2.0	0.895859	10.0	2082929.0	0.447929	Y
5	IC 410-529291/17	5.0	2.366595	10.0	2147537.0	0.473319	Y
6	ICIS 410-529291/18	10.0	4.782994	10.0	2179990.0	0.478299	Y
7	IC 410-529291/19	25.0	11.527774	10.0	2238426.0	0.461111	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

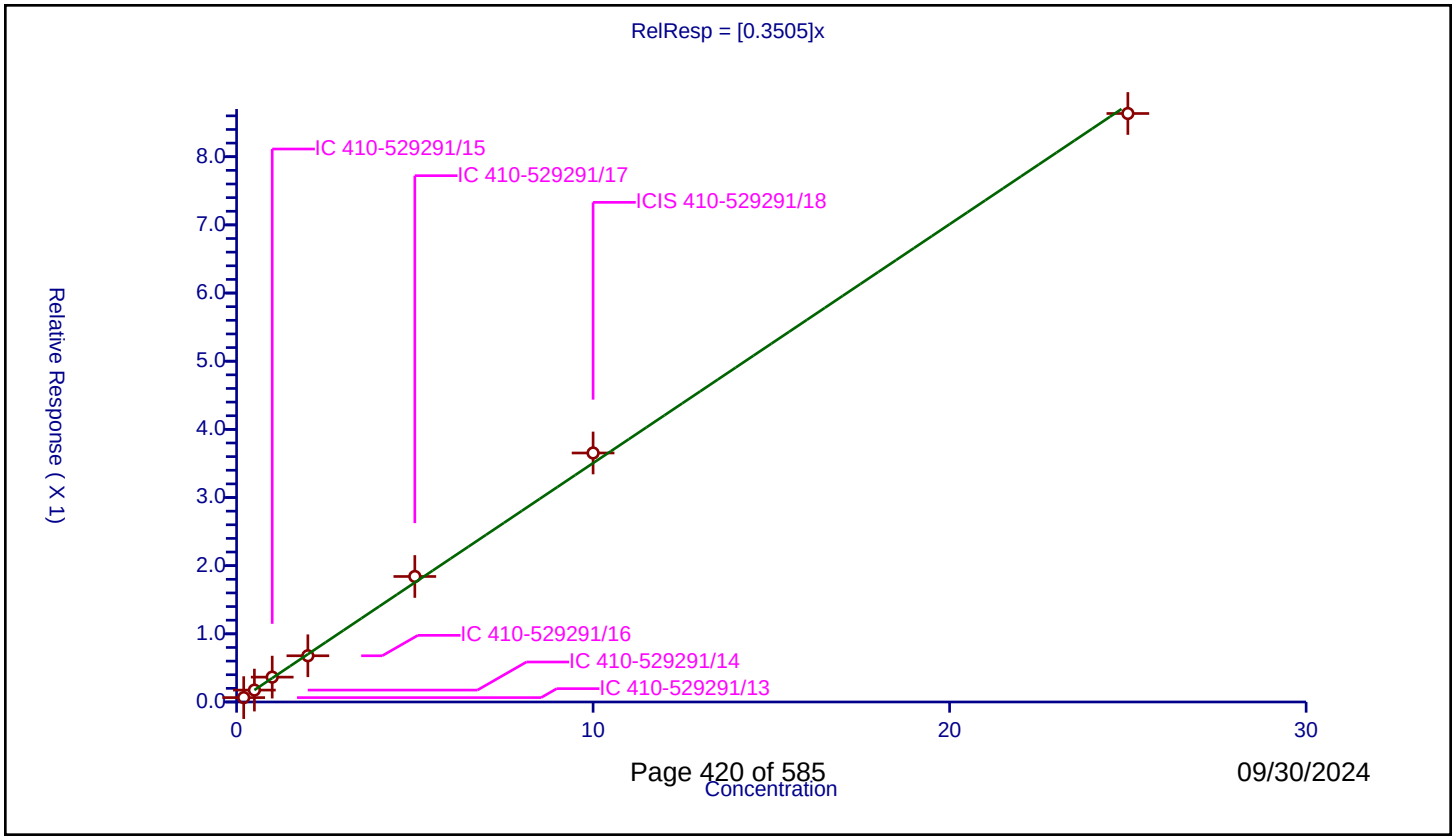
Curve Coefficients

Intercept:	0
Slope:	0.3505

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.064206	10.0	2065681.0	0.321032	Y
2	IC 410-529291/14	0.5	0.174672	10.0	2062328.0	0.349343	Y
3	IC 410-529291/15	1.0	0.364928	10.0	2092414.0	0.364928	Y
4	IC 410-529291/16	2.0	0.678146	10.0	2082929.0	0.339073	Y
5	IC 410-529291/17	5.0	1.841468	10.0	2147537.0	0.368294	Y
6	ICIS 410-529291/18	10.0	3.6532	10.0	2179990.0	0.36532	Y
7	IC 410-529291/19	25.0	8.634415	10.0	2238426.0	0.345377	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

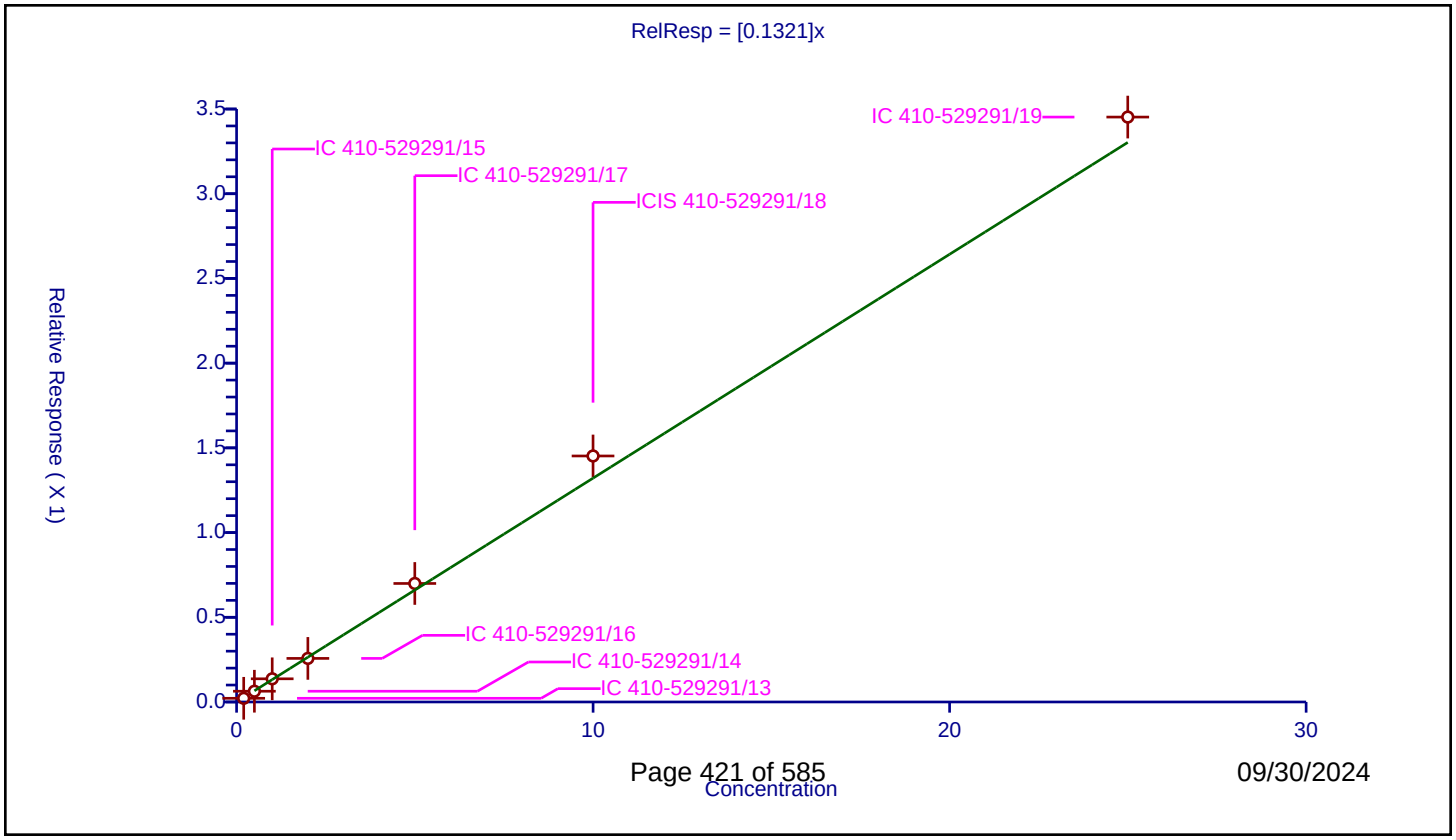
Curve Coefficients

Intercept:	0
Slope:	0.1321

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.199979	0.021799	10.0	2065681.0	0.109007	Y
2	IC 410-529291/14	0.499948	0.063569	10.0	2062328.0	0.127151	Y
3	IC 410-529291/15	0.999897	0.136828	10.0	2092414.0	0.136842	Y
4	IC 410-529291/16	1.999794	0.257282	10.0	2082929.0	0.128654	Y
5	IC 410-529291/17	4.999484	0.699494	10.0	2147537.0	0.139913	Y
6	ICIS 410-529291/18	9.998968	1.452103	10.0	2179990.0	0.145225	Y
7	IC 410-529291/19	24.99742	3.452493	10.0	2238426.0	0.138114	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

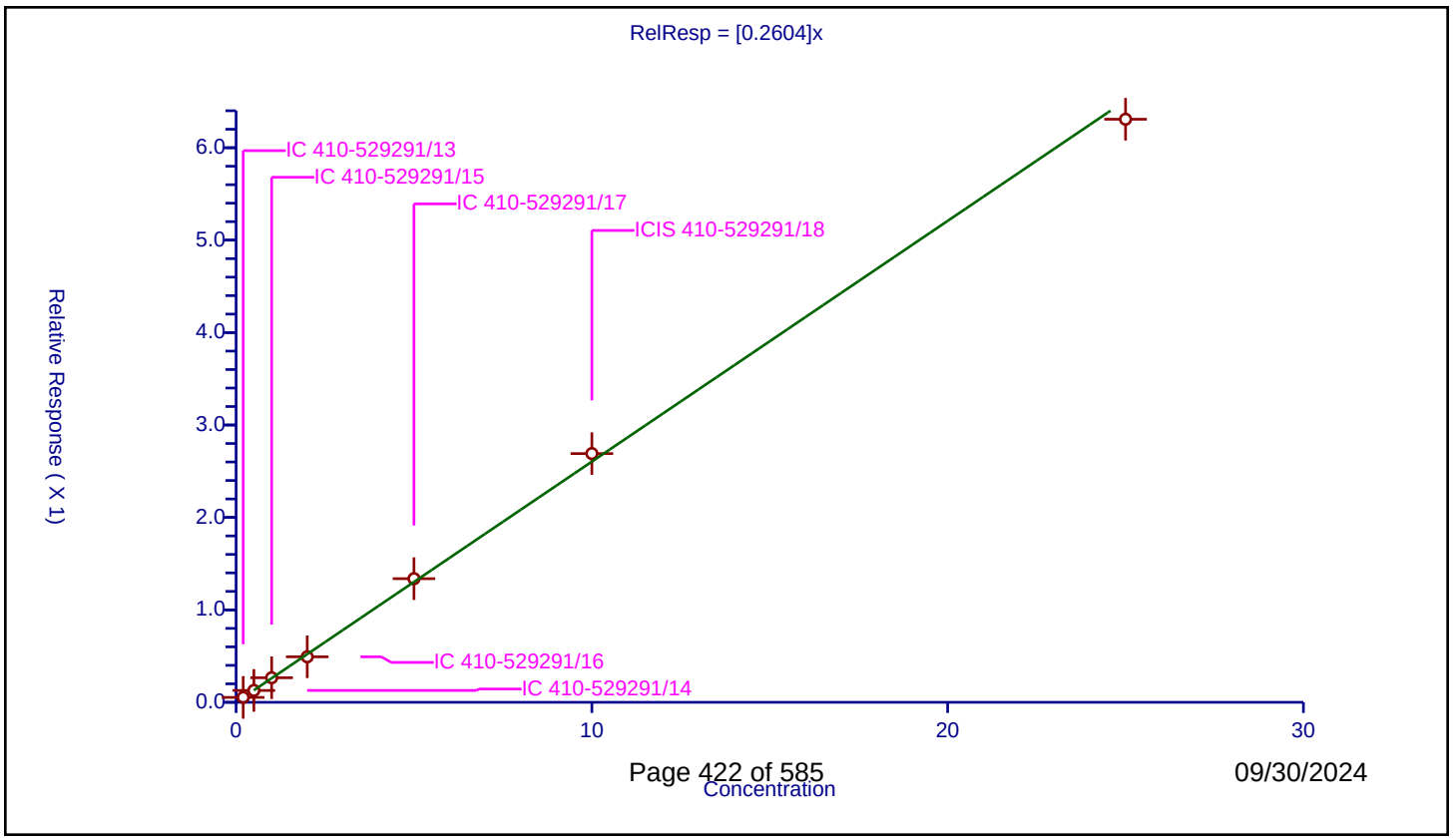
Curve Coefficients

Intercept:	0
Slope:	0.2604

Error Coefficients

Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.053091	10.0	2065681.0	0.265457	Y
2	IC 410-529291/14	0.5	0.128302	10.0	2062328.0	0.256603	Y
3	IC 410-529291/15	1.0	0.26577	10.0	2092414.0	0.26577	Y
4	IC 410-529291/16	2.0	0.492192	10.0	2082929.0	0.246096	Y
5	IC 410-529291/17	5.0	1.3375	10.0	2147537.0	0.2675	Y
6	ICIS 410-529291/18	10.0	2.690944	10.0	2179990.0	0.269094	Y
7	IC 410-529291/19	25.0	6.308165	10.0	2238426.0	0.252327	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

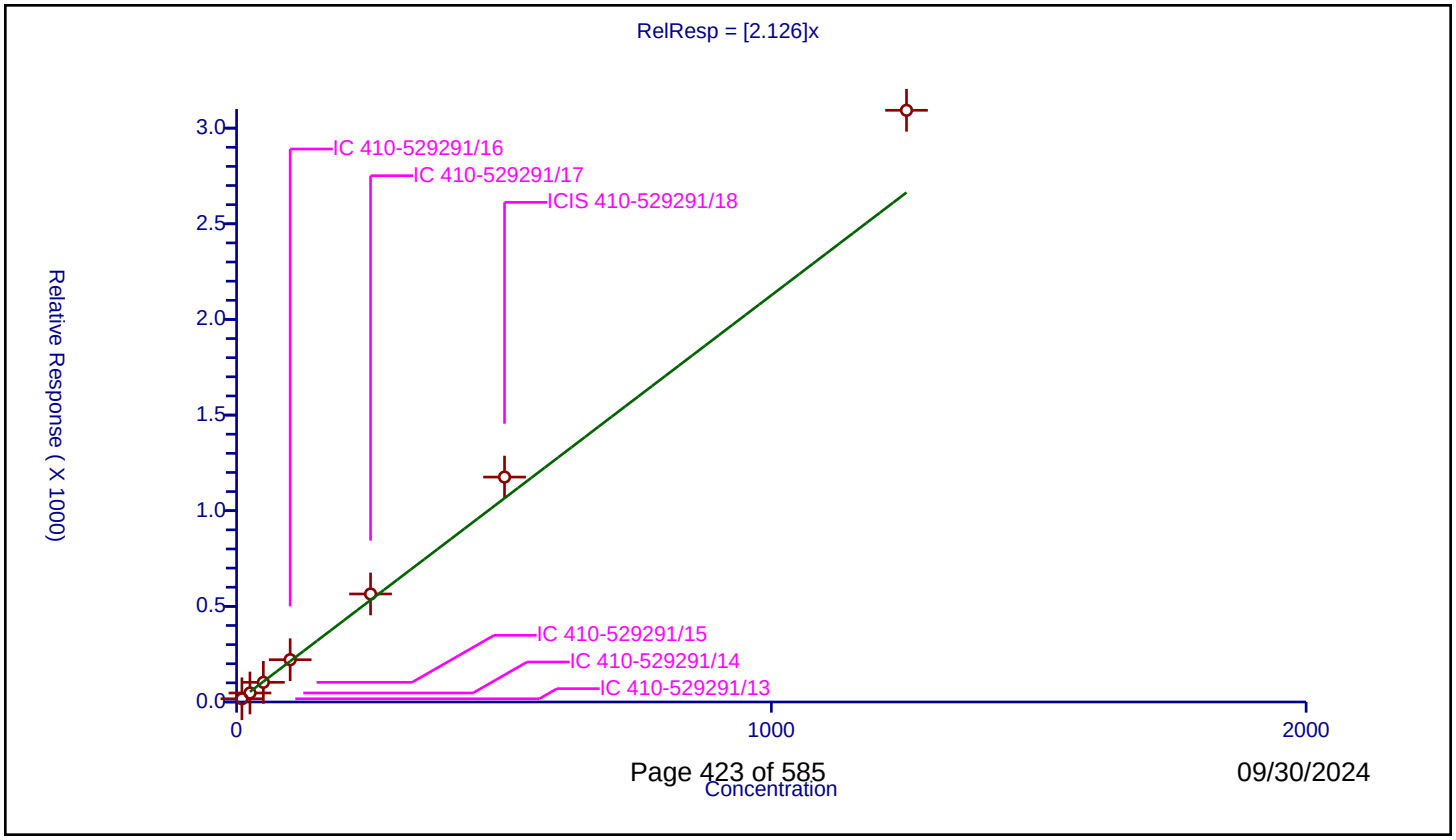
Curve Coefficients

Intercept:	0
Slope:	2.126

Error Coefficients

Relative Standard Deviation:	13.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	10.021748	16.793354	50.0	98405.0	1.675691	Y
2	IC 410-529291/14	25.05437	47.118434	50.0	101542.0	1.880647	Y
3	IC 410-529291/15	50.108739	102.822604	50.0	102122.0	2.051989	Y
4	IC 410-529291/16	100.217479	220.994675	50.0	99711.0	2.205151	Y
5	IC 410-529291/17	250.543697	564.686973	50.0	110278.0	2.253846	Y
6	ICIS 410-529291/18	501.087394	1175.908039	50.0	107980.0	2.346712	Y
7	IC 410-529291/19	1252.718485	3093.327039	50.0	107501.0	2.469291	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

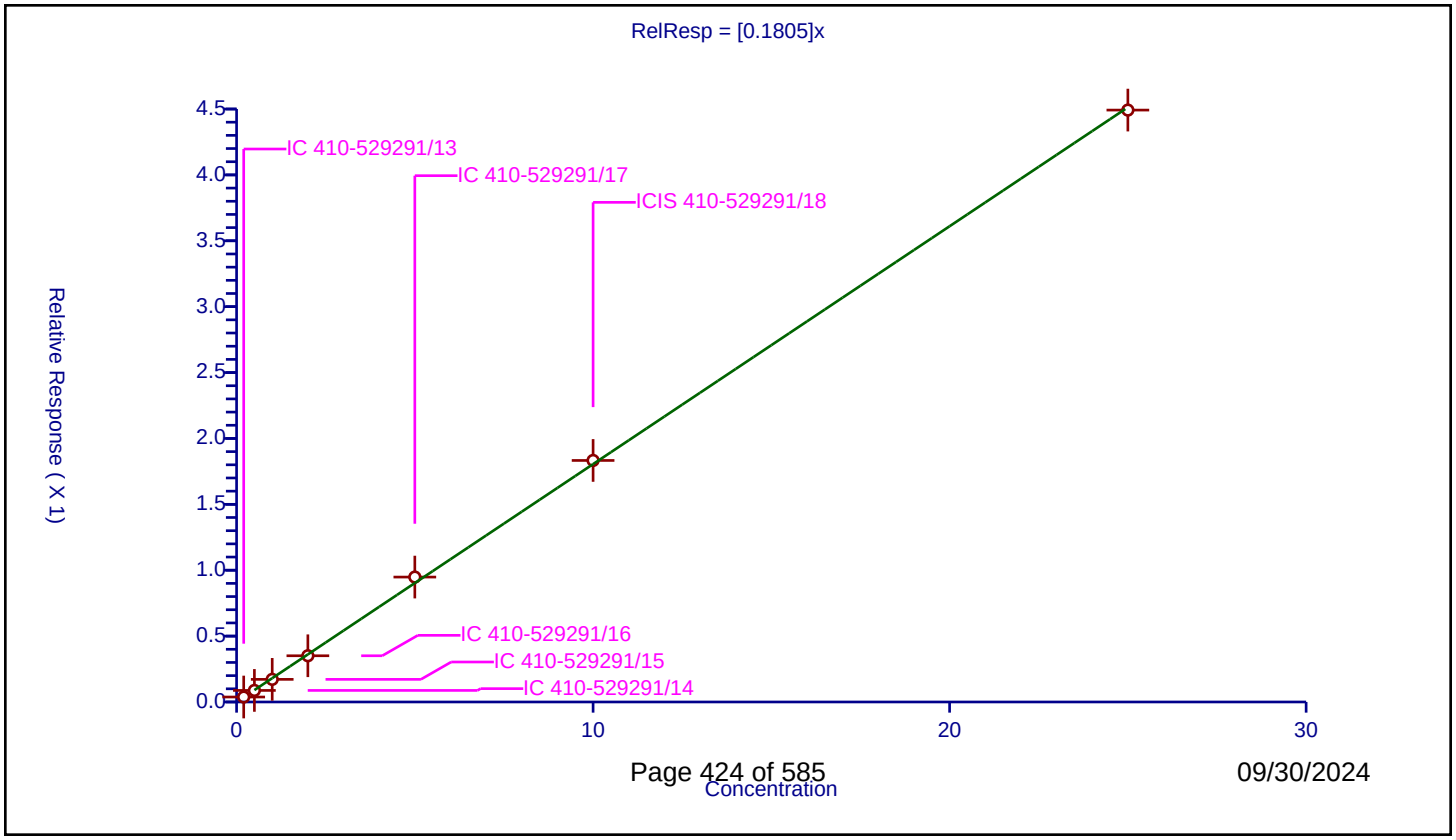
Curve Coefficients

Intercept:	0
Slope:	0.1805

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.037712	10.0	2065681.0	0.188558	Y
2	IC 410-529291/14	0.5	0.087649	10.0	2062328.0	0.175297	Y
3	IC 410-529291/15	1.0	0.171754	10.0	2092414.0	0.171754	Y
4	IC 410-529291/16	2.0	0.350857	10.0	2082929.0	0.175428	Y
5	IC 410-529291/17	5.0	0.947988	10.0	2147537.0	0.189598	Y
6	ICIS 410-529291/18	10.0	1.833054	10.0	2179990.0	0.183305	Y
7	IC 410-529291/19	25.0	4.491857	10.0	2238426.0	0.179674	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

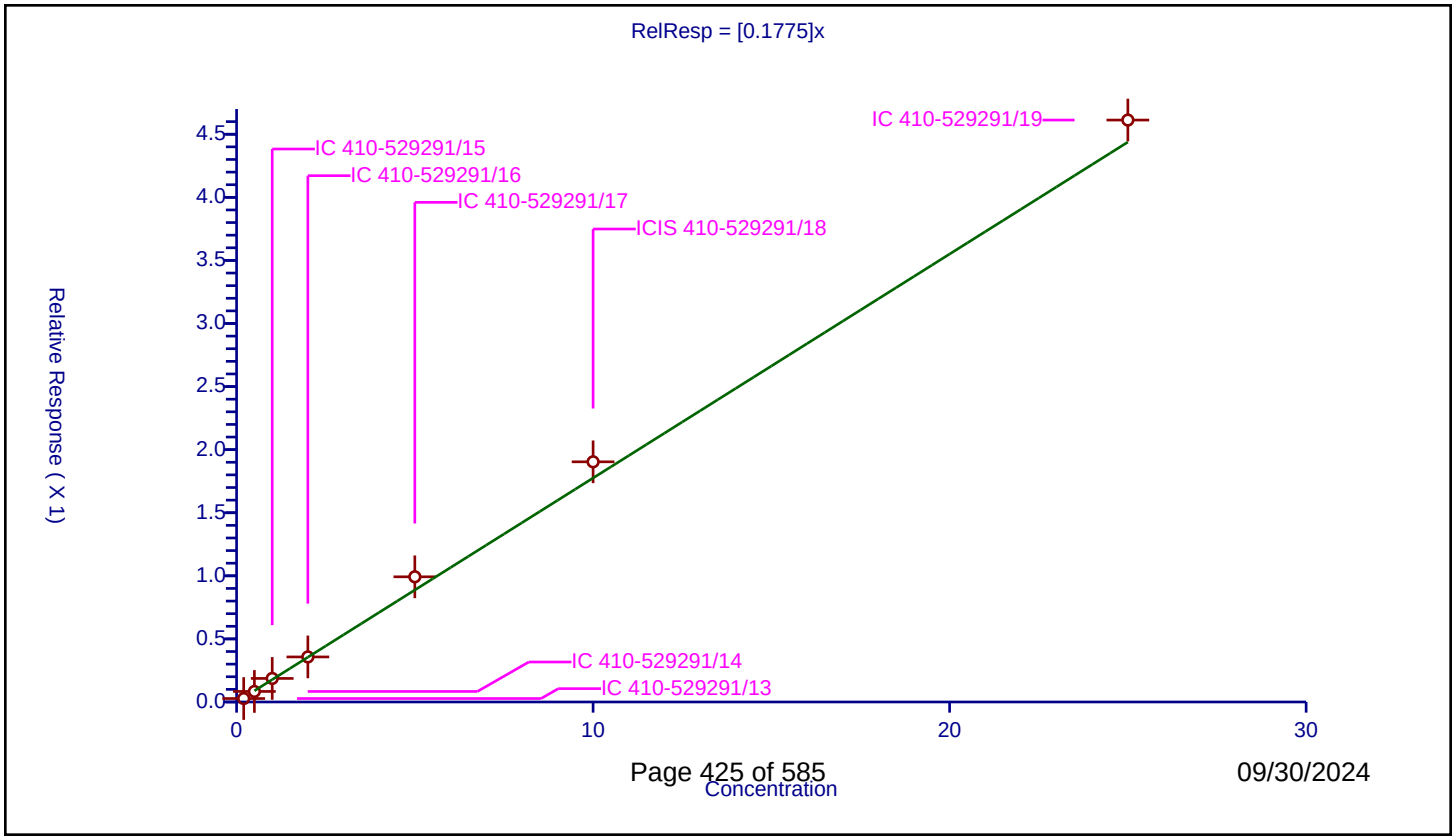
Curve Coefficients

Intercept:	0
Slope:	0.1775

Error Coefficients

Relative Standard Deviation:	11.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.027381	10.0	2065681.0	0.136904	Y
2	IC 410-529291/14	0.5	0.08359	10.0	2062328.0	0.16718	Y
3	IC 410-529291/15	1.0	0.186674	10.0	2092414.0	0.186674	Y
4	IC 410-529291/16	2.0	0.357098	10.0	2082929.0	0.178549	Y
5	IC 410-529291/17	5.0	0.992239	10.0	2147537.0	0.198448	Y
6	ICIS 410-529291/18	10.0	1.903555	10.0	2179990.0	0.190355	Y
7	IC 410-529291/19	25.0	4.612549	10.0	2238426.0	0.184502	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

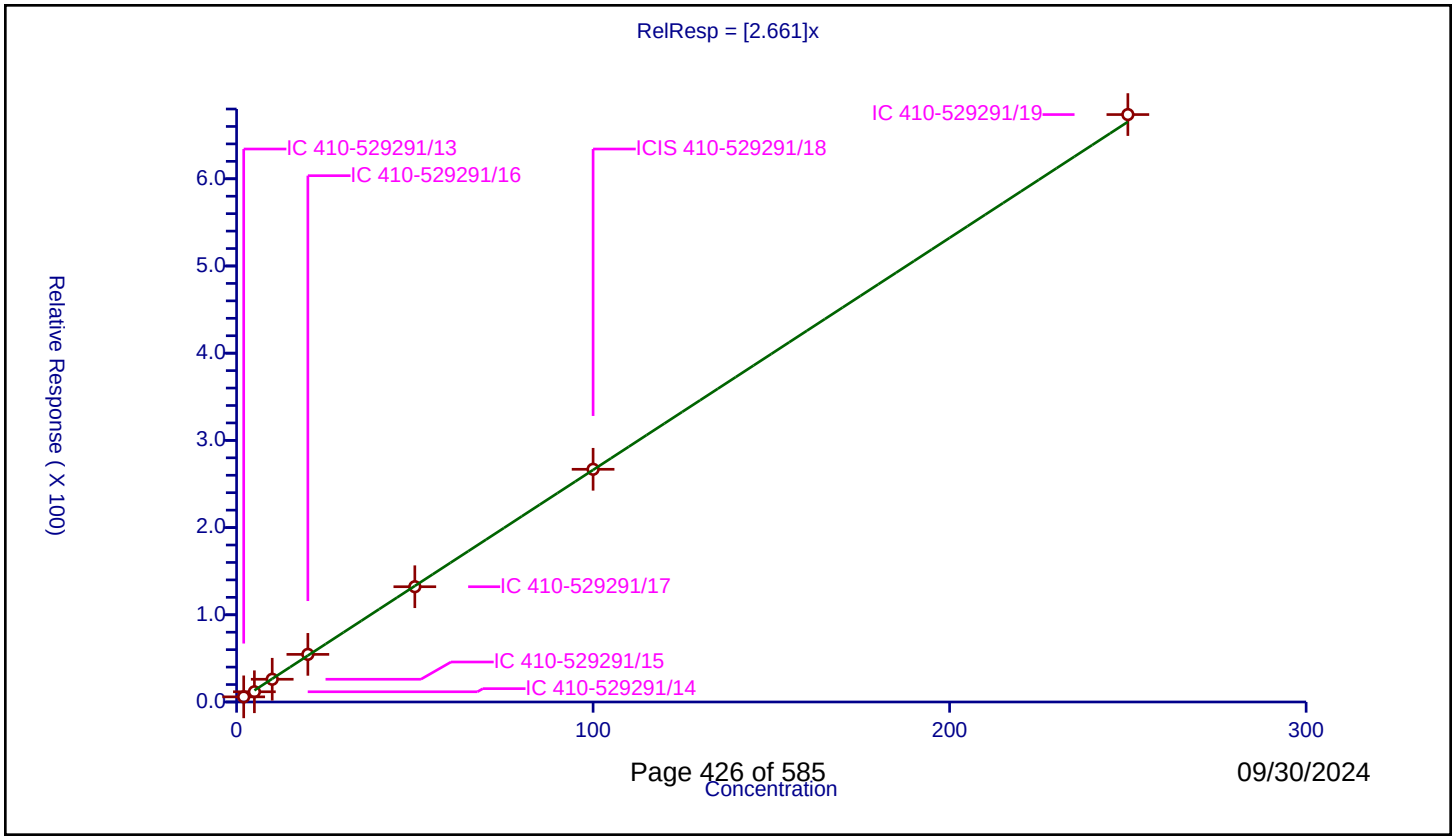
Curve Coefficients

Intercept:	0
Slope:	2.661

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	2.0	5.874701	50.0	98405.0	2.937351	Y
2	IC 410-529291/14	5.0	11.735046	50.0	101542.0	2.347009	Y
3	IC 410-529291/15	10.0	26.078122	50.0	102122.0	2.607812	Y
4	IC 410-529291/16	20.0	54.603304	50.0	99711.0	2.730165	Y
5	IC 410-529291/17	50.0	132.175049	50.0	110278.0	2.643501	Y
6	ICIS 410-529291/18	100.0	266.863771	50.0	107980.0	2.668638	Y
7	IC 410-529291/19	250.0	673.641641	50.0	107501.0	2.694567	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

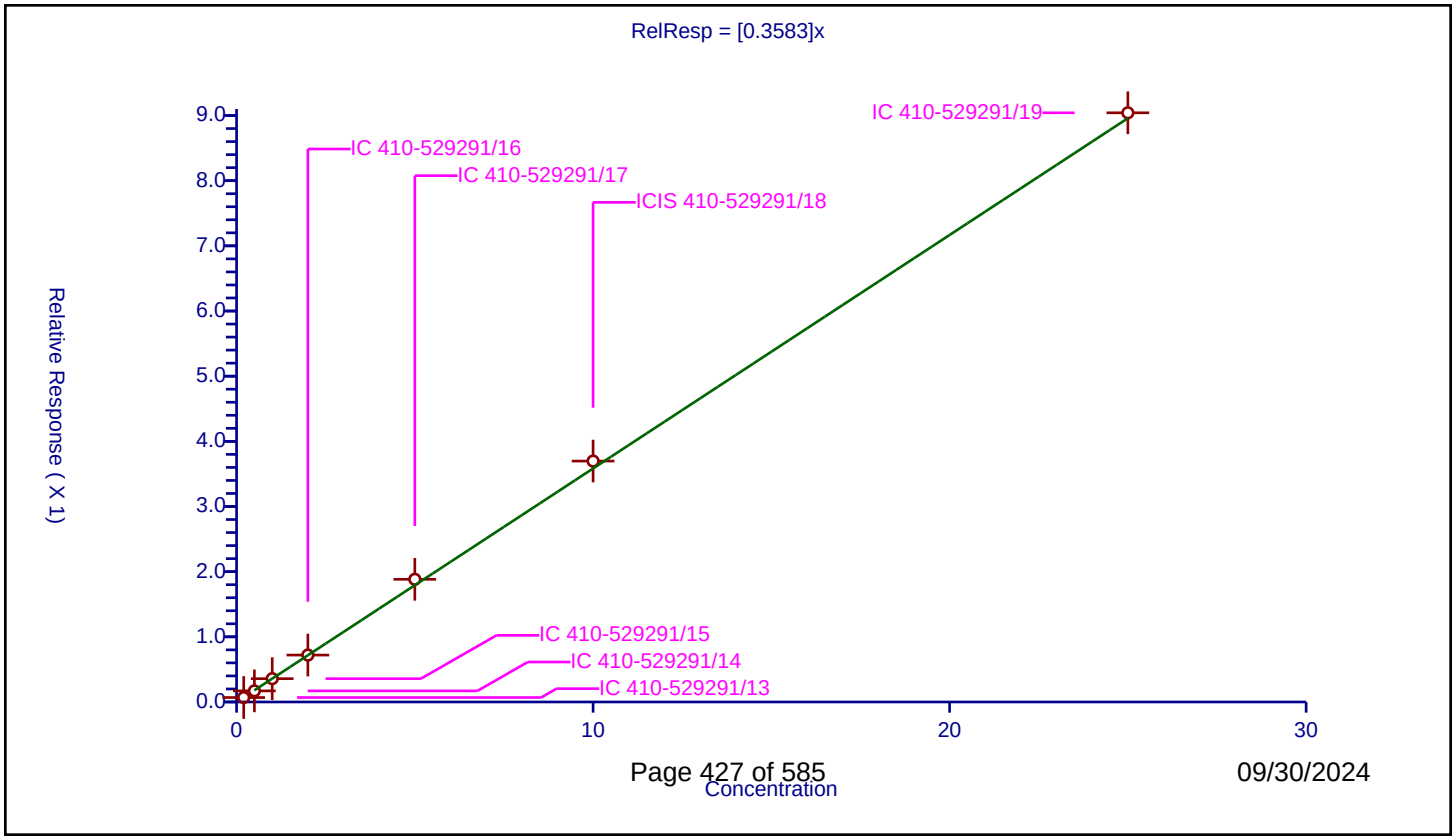
Curve Coefficients

Intercept:	0
Slope:	0.3583

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.068389	10.0	2065681.0	0.341945	Y
2	IC 410-529291/14	0.5	0.170438	10.0	2062328.0	0.340877	Y
3	IC 410-529291/15	1.0	0.357726	10.0	2092414.0	0.357726	Y
4	IC 410-529291/16	2.0	0.719943	10.0	2082929.0	0.359971	Y
5	IC 410-529291/17	5.0	1.882496	10.0	2147537.0	0.376499	Y
6	ICIS 410-529291/18	10.0	3.697205	10.0	2179990.0	0.369721	Y
7	IC 410-529291/19	25.0	9.0418	10.0	2238426.0	0.361672	Y



Calibration / Ethyl bromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

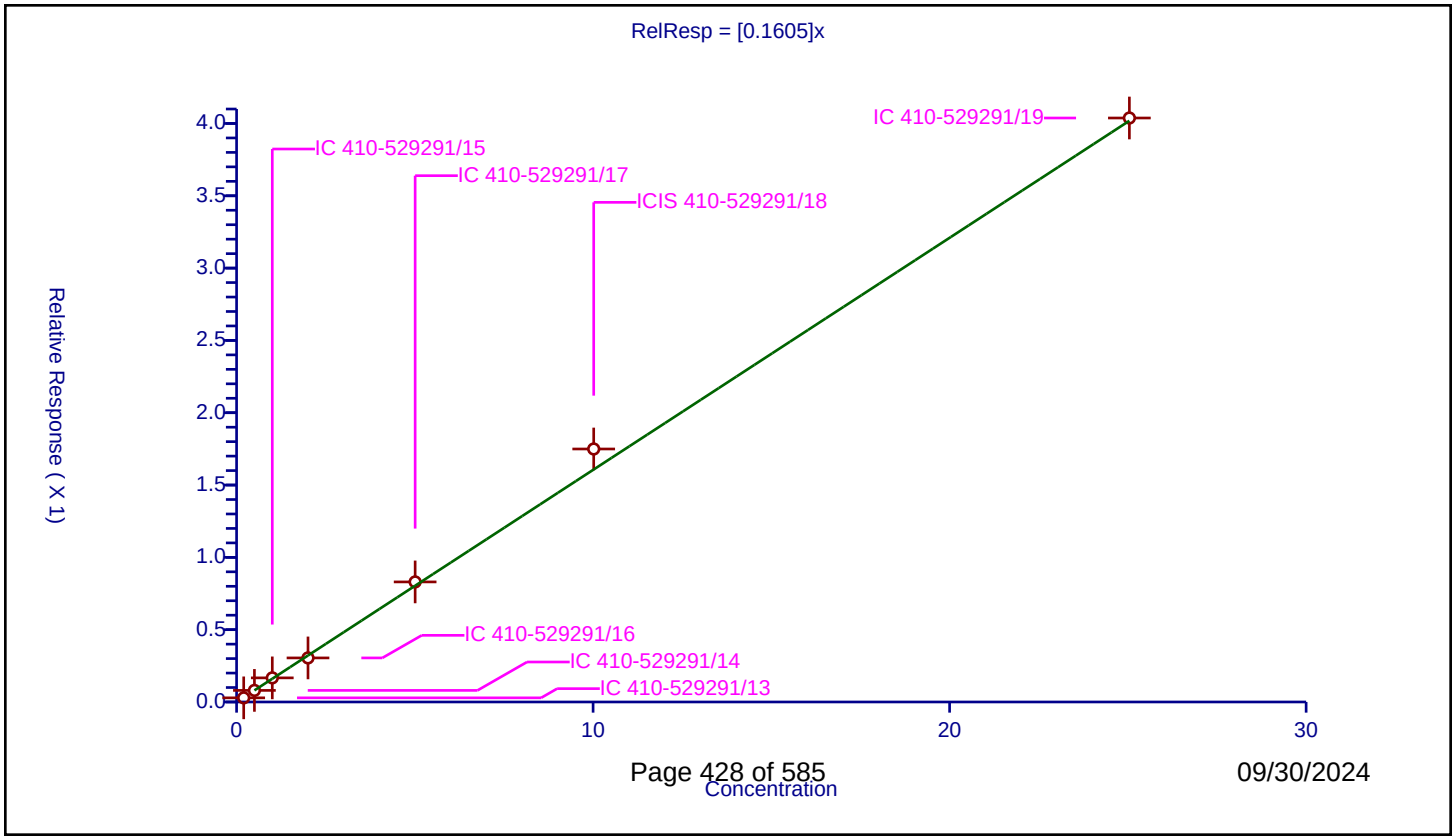
Curve Coefficients

Intercept:	0
Slope:	0.1605

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.20034	0.028688	10.0	2065681.0	0.143196	Y
2	IC 410-529291/14	0.50085	0.08007	10.0	2062328.0	0.159868	Y
3	IC 410-529291/15	1.0017	0.166846	10.0	2092414.0	0.166562	Y
4	IC 410-529291/16	2.0034	0.304653	10.0	2082929.0	0.152068	Y
5	IC 410-529291/17	5.0085	0.830128	10.0	2147537.0	0.165744	Y
6	ICIS 410-529291/18	10.017	1.749389	10.0	2179990.0	0.174642	Y
7	IC 410-529291/19	25.0425	4.037936	10.0	2238426.0	0.161243	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

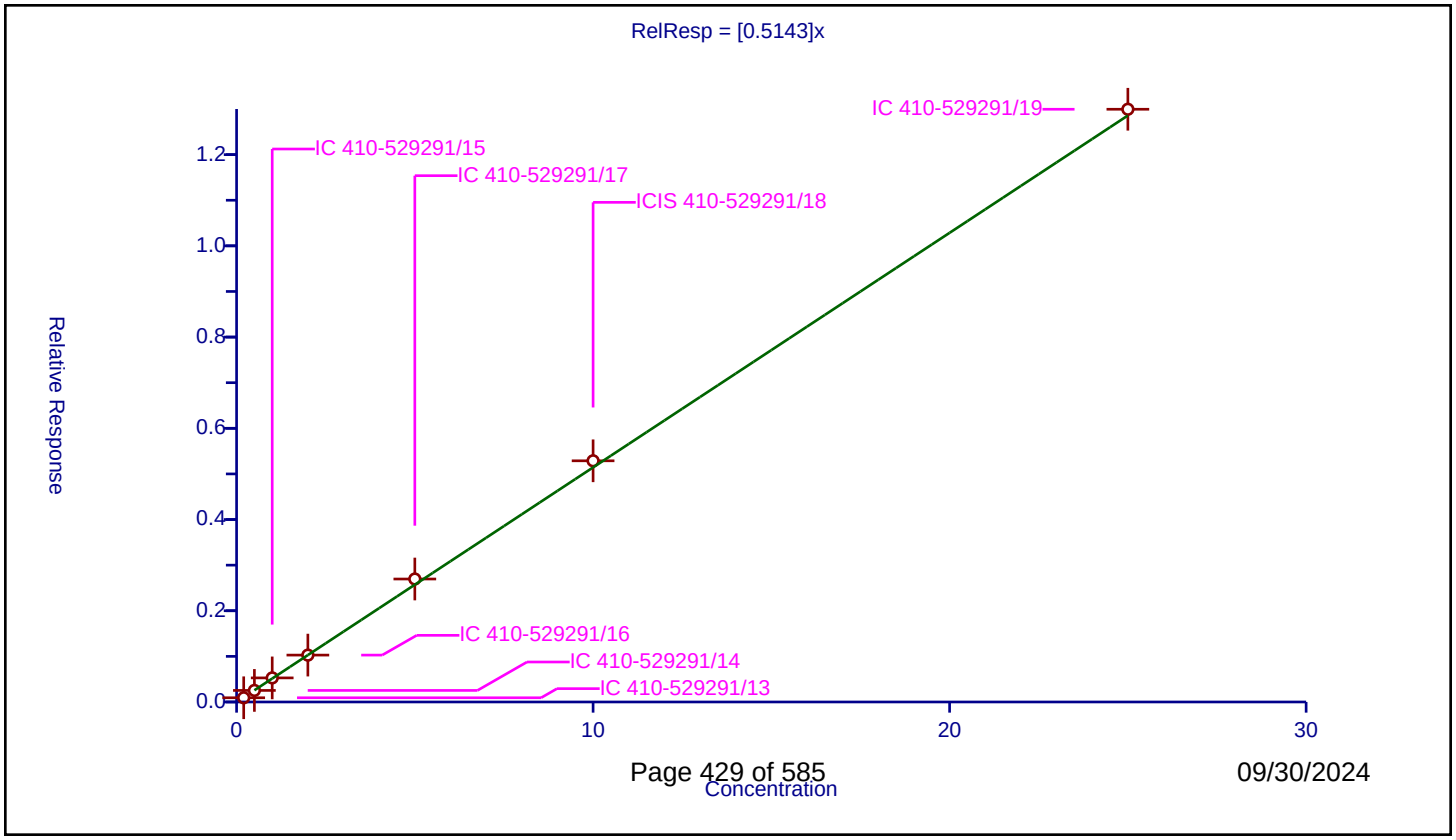
Curve Coefficients

Intercept:	0
Slope:	0.5143

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.092594	10.0	2065681.0	0.462971	Y
2	IC 410-529291/14	0.5	0.253665	10.0	2062328.0	0.50733	Y
3	IC 410-529291/15	1.0	0.528132	10.0	2092414.0	0.528132	Y
4	IC 410-529291/16	2.0	1.027764	10.0	2082929.0	0.513882	Y
5	IC 410-529291/17	5.0	2.695777	10.0	2147537.0	0.539155	Y
6	ICIS 410-529291/18	10.0	5.287887	10.0	2179990.0	0.528789	Y
7	IC 410-529291/19	25.0	12.994627	10.0	2238426.0	0.519785	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

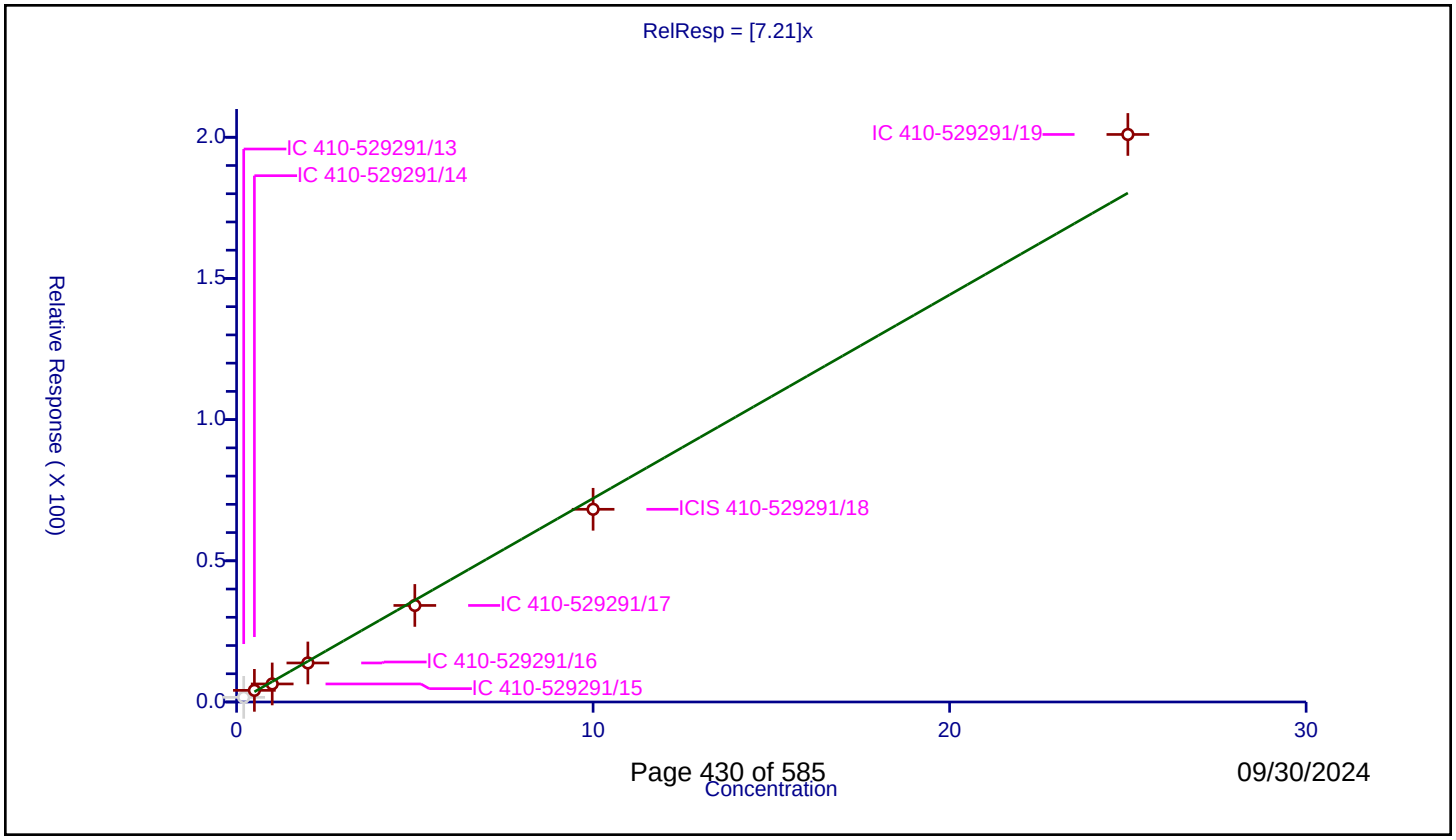
Curve Coefficients

Intercept:	0
Slope:	7.21

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	1.643717	50.0	98405.0	8.218586	N
2	IC 410-529291/14	0.5	4.126371	50.0	101542.0	8.252743	Y
3	IC 410-529291/15	1.0	6.392354	50.0	102122.0	6.392354	Y
4	IC 410-529291/16	2.0	13.825456	50.0	99711.0	6.912728	Y
5	IC 410-529291/17	5.0	34.19313	50.0	110278.0	6.838626	Y
6	ICIS 410-529291/18	10.0	68.248287	50.0	107980.0	6.824829	Y
7	IC 410-529291/19	25.0	200.987433	50.0	107501.0	8.039497	Y



09/30/2024

Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

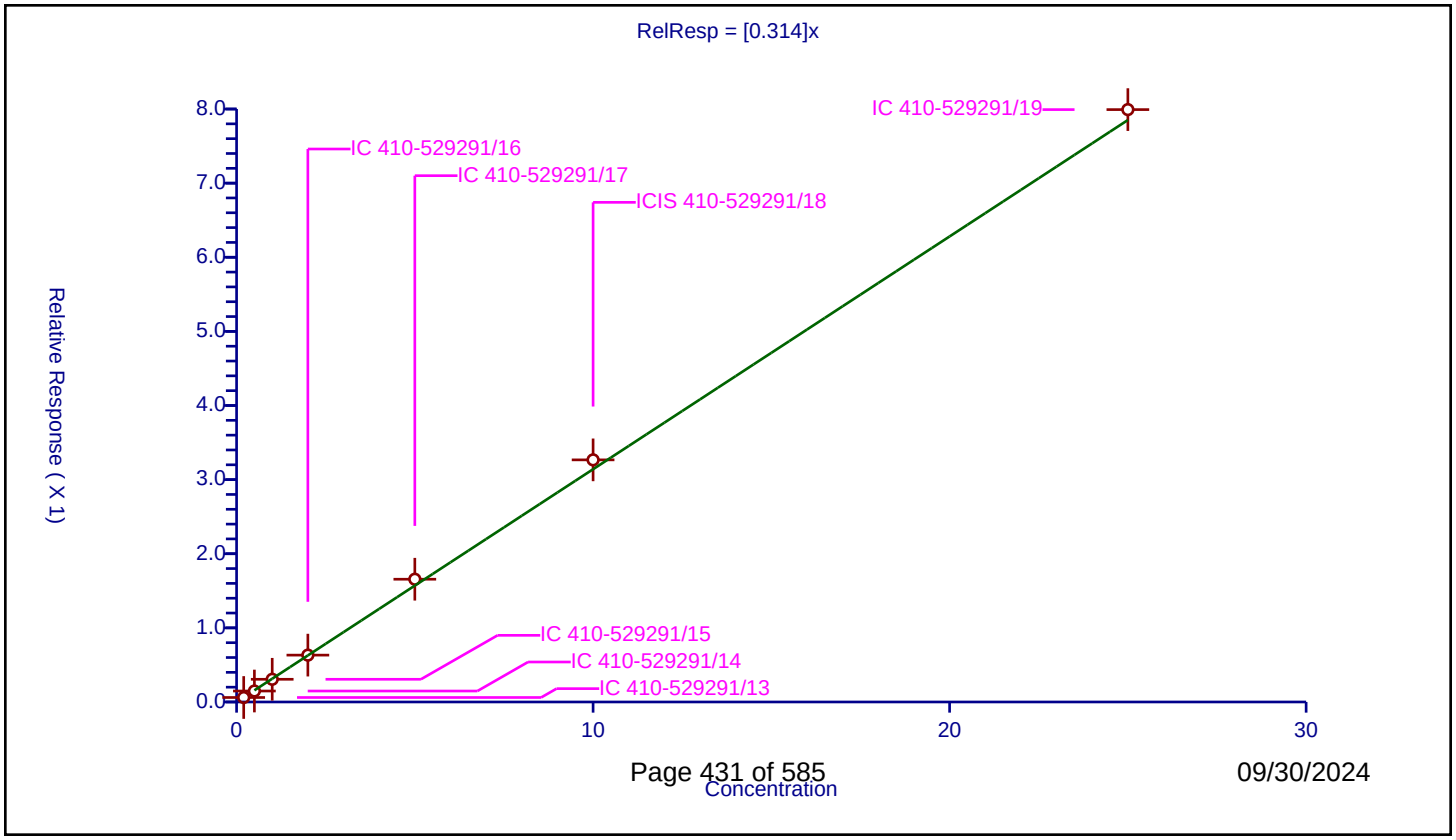
Curve Coefficients

Intercept:	0
Slope:	0.314

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.060469	10.0	2065681.0	0.302346	Y
2	IC 410-529291/14	0.5	0.147983	10.0	2062328.0	0.295966	Y
3	IC 410-529291/15	1.0	0.306287	10.0	2092414.0	0.306287	Y
4	IC 410-529291/16	2.0	0.632163	10.0	2082929.0	0.316081	Y
5	IC 410-529291/17	5.0	1.656344	10.0	2147537.0	0.331269	Y
6	ICIS 410-529291/18	10.0	3.266565	10.0	2179990.0	0.326657	Y
7	IC 410-529291/19	25.0	7.992152	10.0	2238426.0	0.319686	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

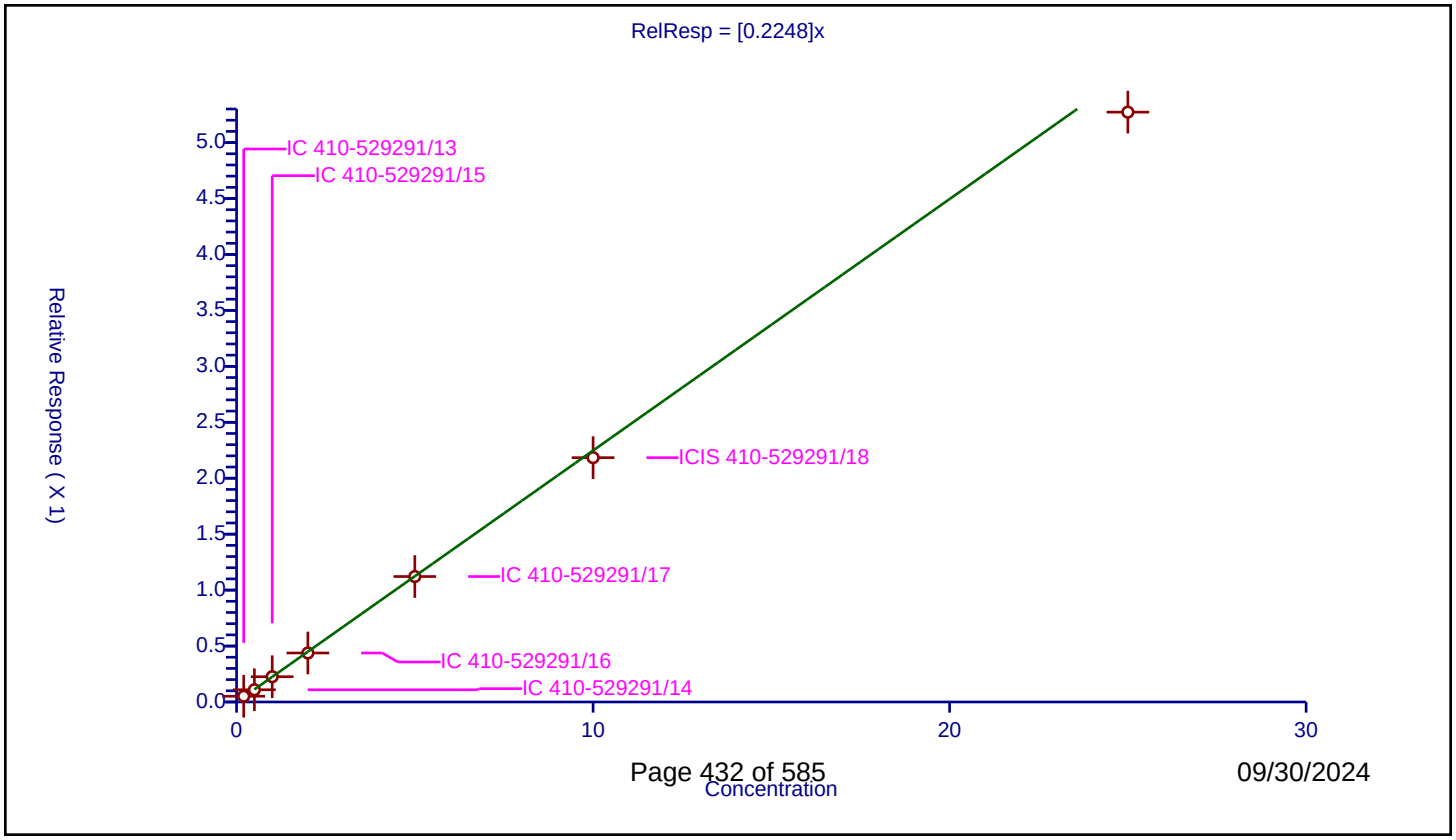
Curve Coefficients

Intercept:	0
Slope:	0.2248

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.051252	10.0	2065681.0	0.256259	Y
2	IC 410-529291/14	0.5	0.109362	10.0	2062328.0	0.218724	Y
3	IC 410-529291/15	1.0	0.225849	10.0	2092414.0	0.225849	Y
4	IC 410-529291/16	2.0	0.437951	10.0	2082929.0	0.218975	Y
5	IC 410-529291/17	5.0	1.12134	10.0	2147537.0	0.224268	Y
6	ICIS 410-529291/18	10.0	2.183785	10.0	2179990.0	0.218379	Y
7	IC 410-529291/19	25.0	5.272227	10.0	2238426.0	0.210889	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

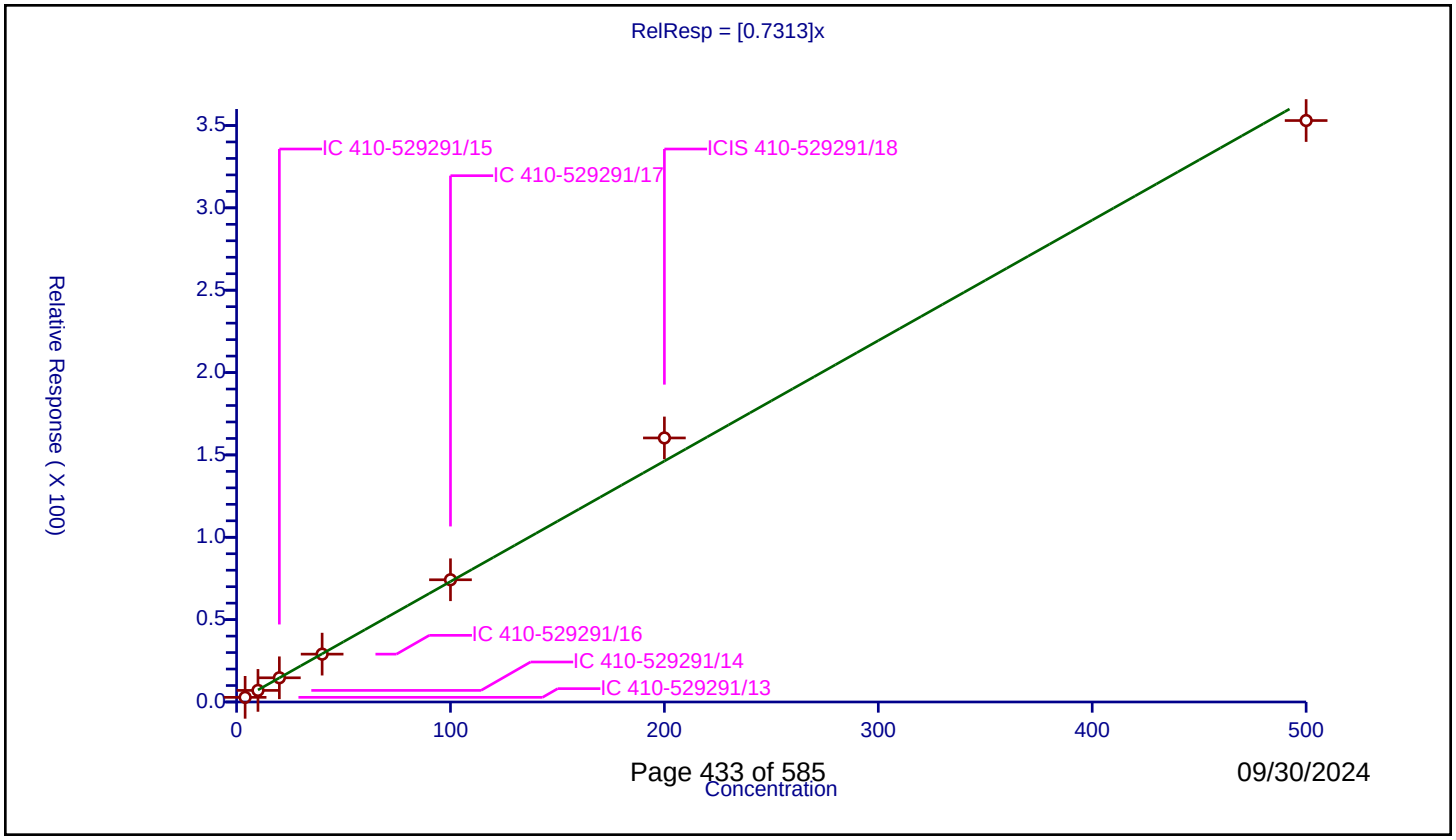
Curve Coefficients

Intercept:	0
Slope:	0.7313

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	4.0	2.818962	50.0	98405.0	0.704741	Y
2	IC 410-529291/14	10.0	7.038959	50.0	101542.0	0.703896	Y
3	IC 410-529291/15	20.0	14.697127	50.0	102122.0	0.734856	Y
4	IC 410-529291/16	40.0	29.052462	50.0	99711.0	0.726312	Y
5	IC 410-529291/17	100.0	74.20111	50.0	110278.0	0.742011	Y
6	ICIS 410-529291/18	200.0	160.30839	50.0	107980.0	0.801542	Y
7	IC 410-529291/19	500.0	353.006019	50.0	107501.0	0.706012	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

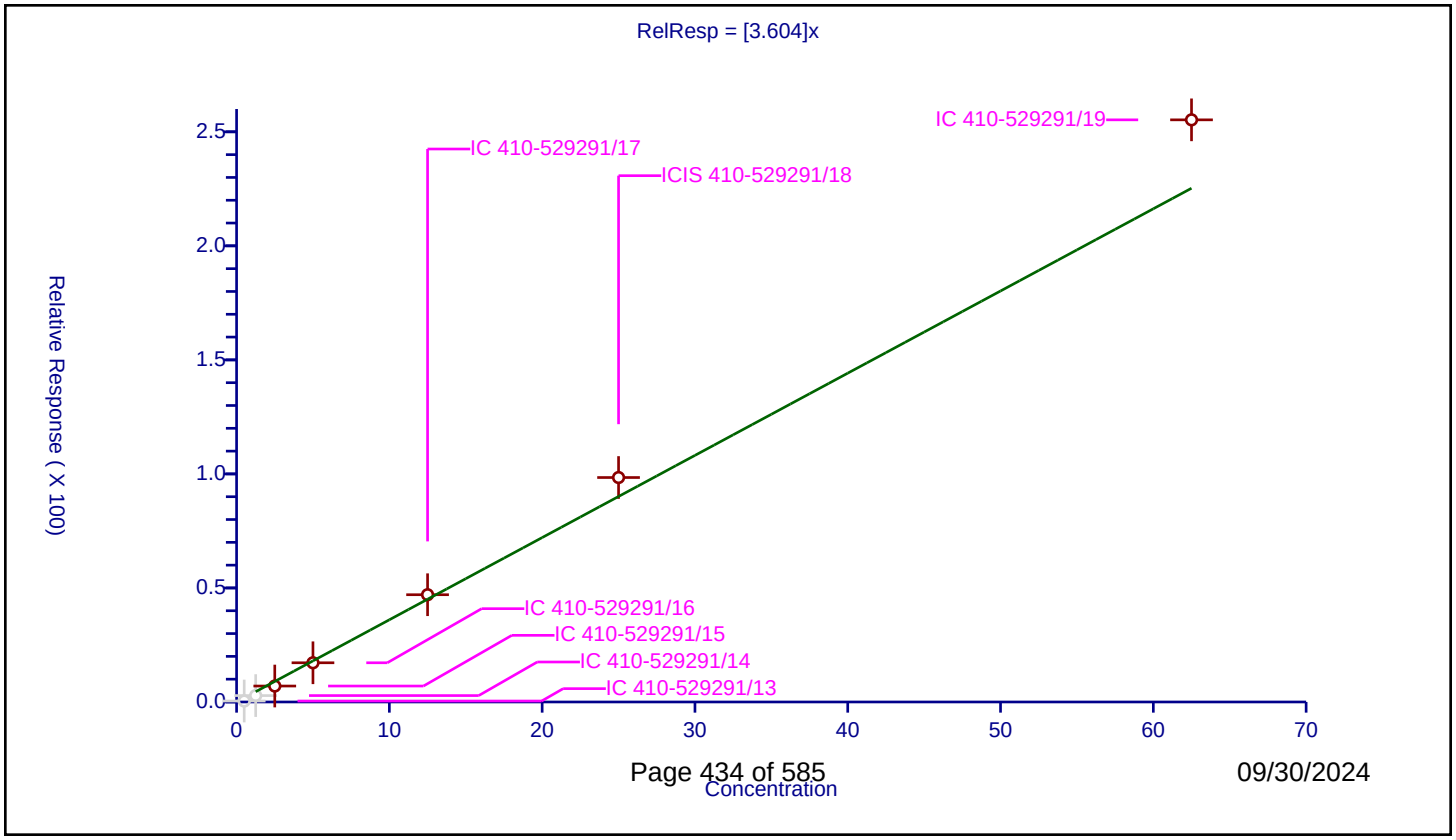
Curve Coefficients

Intercept:	0
Slope:	3.604

Error Coefficients

Relative Standard Deviation:	14.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.5	0.430364	50.0	98405.0	0.860729	N
2	IC 410-529291/14	1.25	2.817553	50.0	101542.0	2.254043	N
3	IC 410-529291/15	2.5	6.999471	50.0	102122.0	2.799788	Y
4	IC 410-529291/16	5.0	17.19018	50.0	99711.0	3.438036	Y
5	IC 410-529291/17	12.5	47.034313	50.0	110278.0	3.762745	Y
6	ICIS 410-529291/18	25.0	98.416373	50.0	107980.0	3.936655	Y
7	IC 410-529291/19	62.5	255.250649	50.0	107501.0	4.08401	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

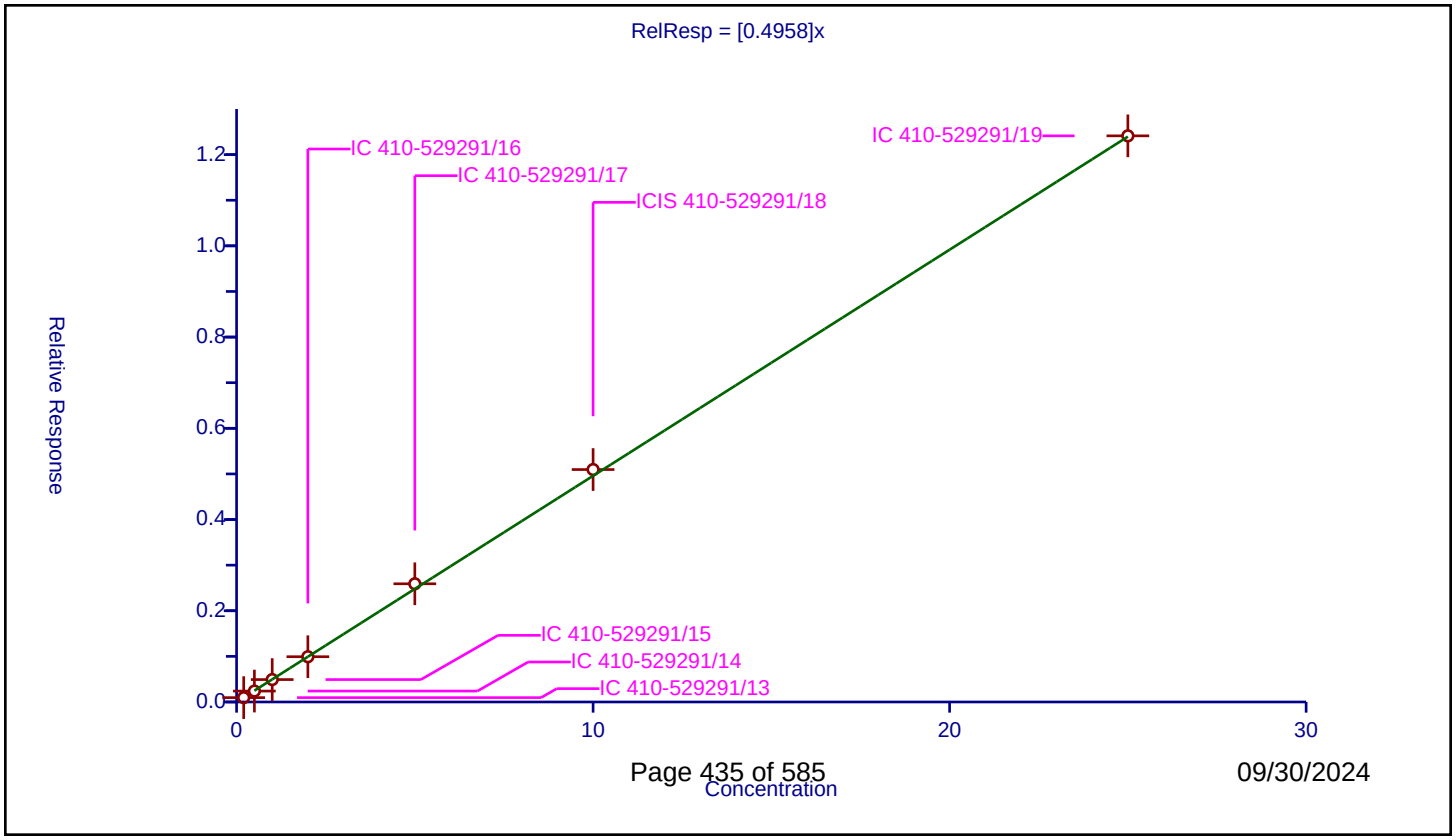
Curve Coefficients

Intercept:	0
Slope:	0.4958

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.095867	10.0	2065681.0	0.479333	Y
2	IC 410-529291/14	0.5	0.239622	10.0	2062328.0	0.479245	Y
3	IC 410-529291/15	1.0	0.491432	10.0	2092414.0	0.491432	Y
4	IC 410-529291/16	2.0	0.992295	10.0	2082929.0	0.496147	Y
5	IC 410-529291/17	5.0	2.591303	10.0	2147537.0	0.518261	Y
6	ICIS 410-529291/18	10.0	5.09567	10.0	2179990.0	0.509567	Y
7	IC 410-529291/19	25.0	12.411766	10.0	2238426.0	0.496471	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

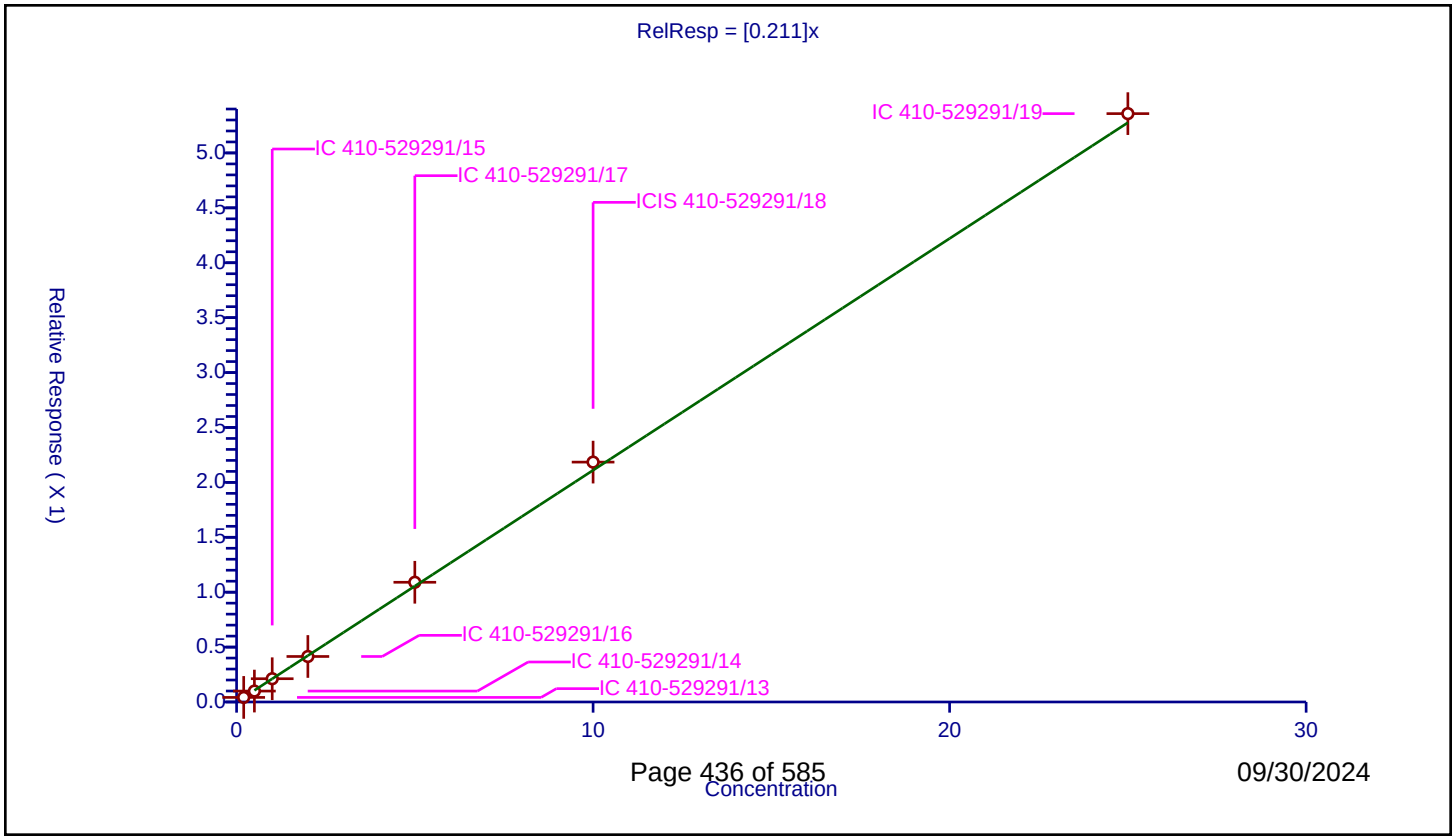
Curve Coefficients

Intercept:	0
Slope:	0.211

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.041744	10.0	2065681.0	0.208721	Y
2	IC 410-529291/14	0.5	0.099393	10.0	2062328.0	0.198785	Y
3	IC 410-529291/15	1.0	0.211822	10.0	2092414.0	0.211822	Y
4	IC 410-529291/16	2.0	0.414292	10.0	2082929.0	0.207146	Y
5	IC 410-529291/17	5.0	1.090156	10.0	2147537.0	0.218031	Y
6	ICIS 410-529291/18	10.0	2.184547	10.0	2179990.0	0.218455	Y
7	IC 410-529291/19	25.0	5.357908	10.0	2238426.0	0.214316	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

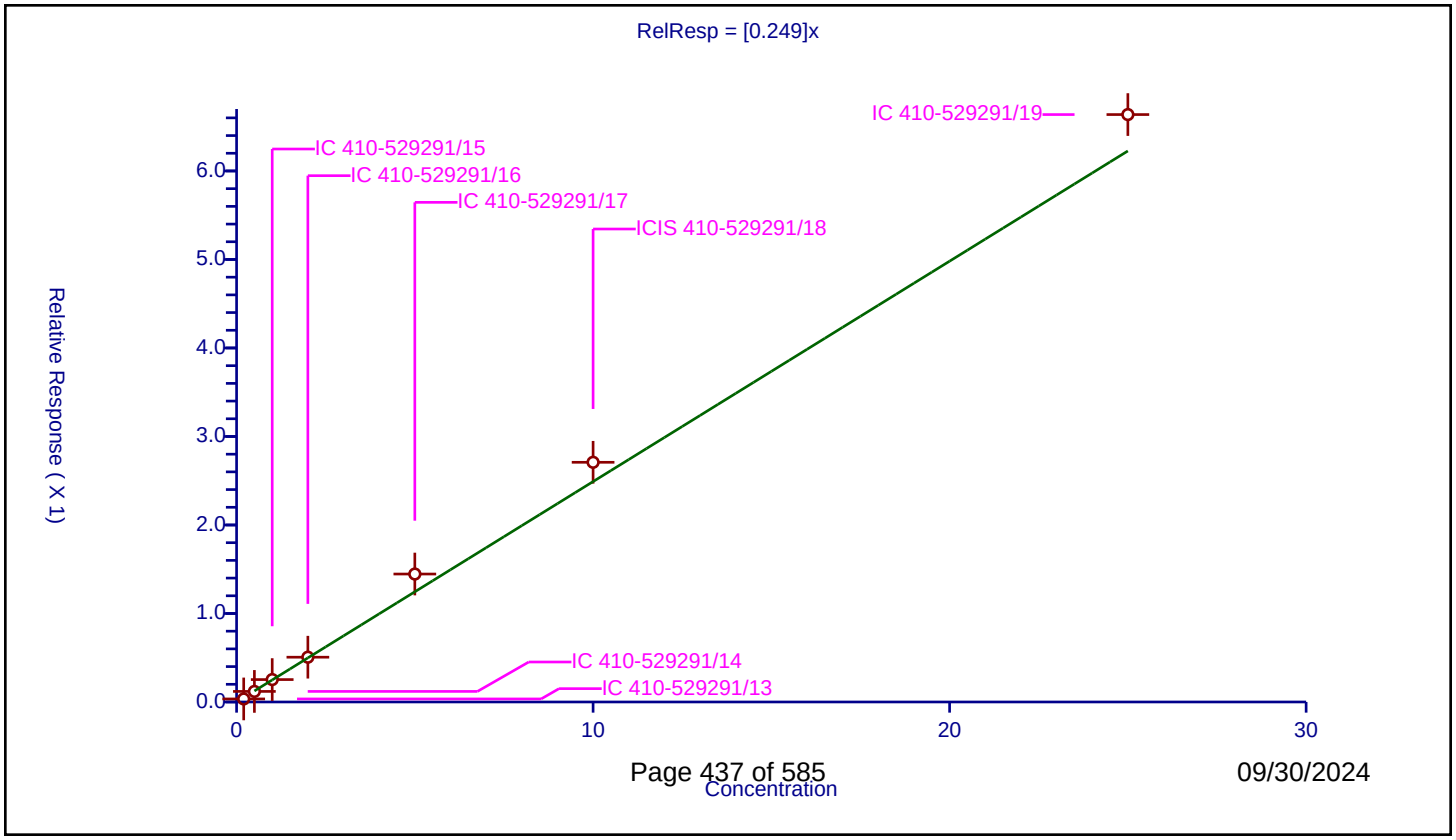
Curve Coefficients

Intercept:	0
Slope:	0.249

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.034492	10.0	2065681.0	0.172461	Y
2	IC 410-529291/14	0.5	0.11953	10.0	2062328.0	0.23906	Y
3	IC 410-529291/15	1.0	0.253306	10.0	2092414.0	0.253306	Y
4	IC 410-529291/16	2.0	0.505898	10.0	2082929.0	0.252949	Y
5	IC 410-529291/17	5.0	1.445949	10.0	2147537.0	0.28919	Y
6	ICIS 410-529291/18	10.0	2.708297	10.0	2179990.0	0.27083	Y
7	IC 410-529291/19	25.0	6.637191	10.0	2238426.0	0.265488	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

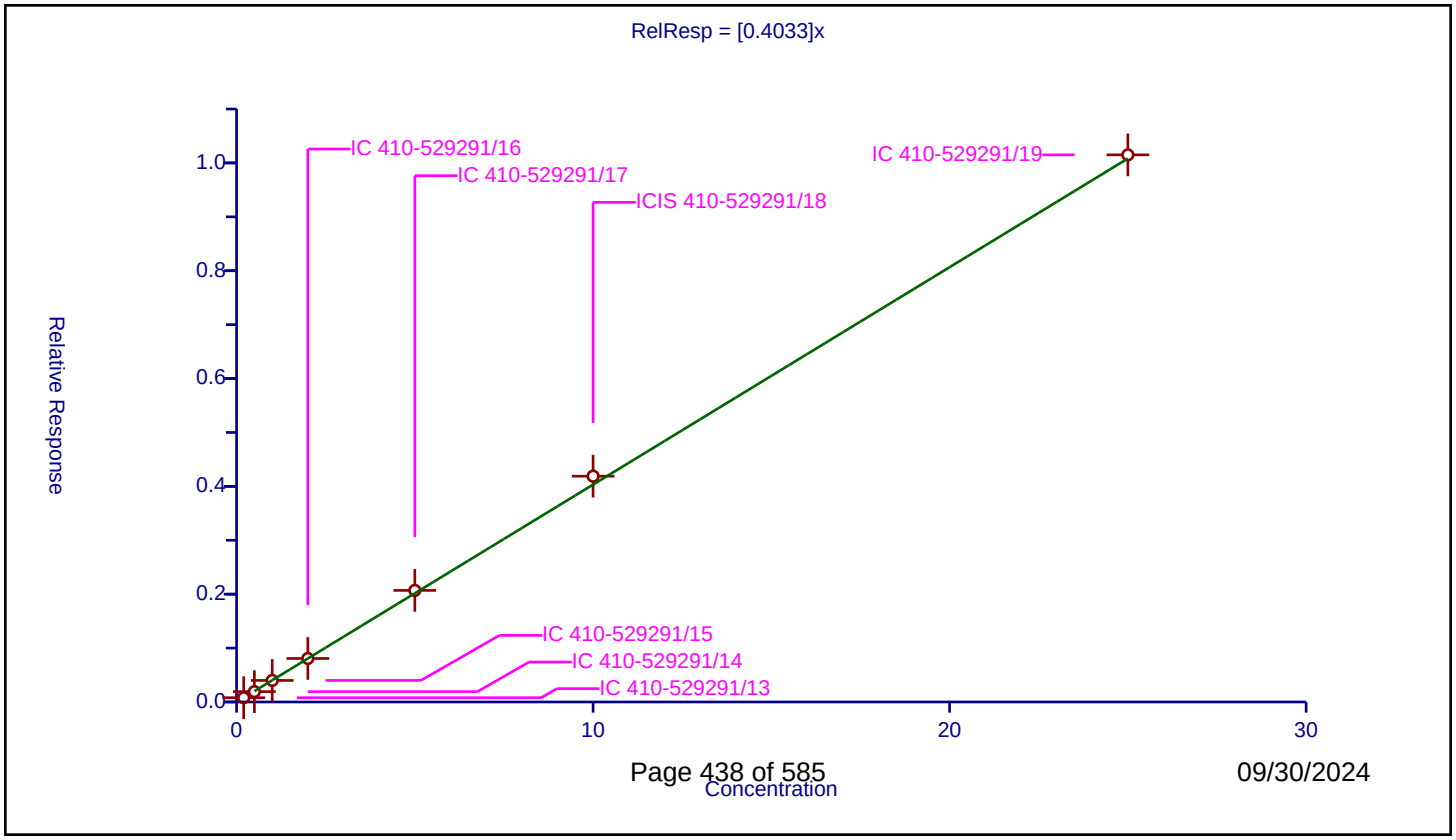
Curve Coefficients

Intercept:	0
Slope:	0.4033

Error Coefficients

Relative Standard Deviation:	2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.079233	10.0	2065681.0	0.396165	Y
2	IC 410-529291/14	0.5	0.192254	10.0	2062328.0	0.384507	Y
3	IC 410-529291/15	1.0	0.399849	10.0	2092414.0	0.399849	Y
4	IC 410-529291/16	2.0	0.806912	10.0	2082929.0	0.403456	Y
5	IC 410-529291/17	5.0	2.070078	10.0	2147537.0	0.414016	Y
6	ICIS 410-529291/18	10.0	4.18895	10.0	2179990.0	0.418895	Y
7	IC 410-529291/19	25.0	10.149462	10.0	2238426.0	0.405978	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

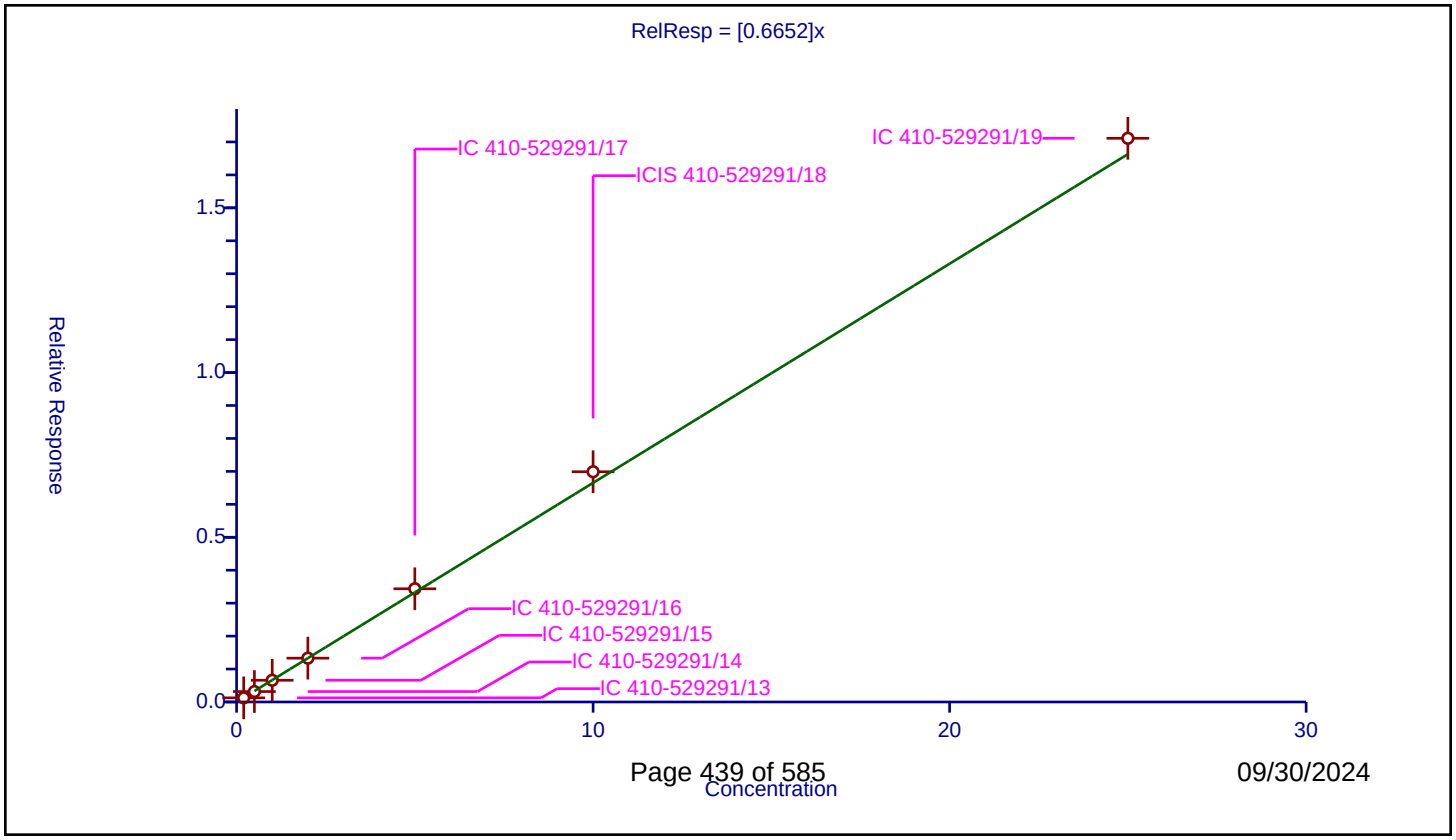
Curve Coefficients

Intercept:	0
Slope:	0.6652

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.125653	10.0	2065681.0	0.628267	Y
2	IC 410-529291/14	0.5	0.31654	10.0	2062328.0	0.633081	Y
3	IC 410-529291/15	1.0	0.659129	10.0	2092414.0	0.659129	Y
4	IC 410-529291/16	2.0	1.330055	10.0	2082929.0	0.665027	Y
5	IC 410-529291/17	5.0	3.43677	10.0	2147537.0	0.687354	Y
6	ICIS 410-529291/18	10.0	6.989216	10.0	2179990.0	0.698922	Y
7	IC 410-529291/19	25.0	17.111542	10.0	2238426.0	0.684462	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

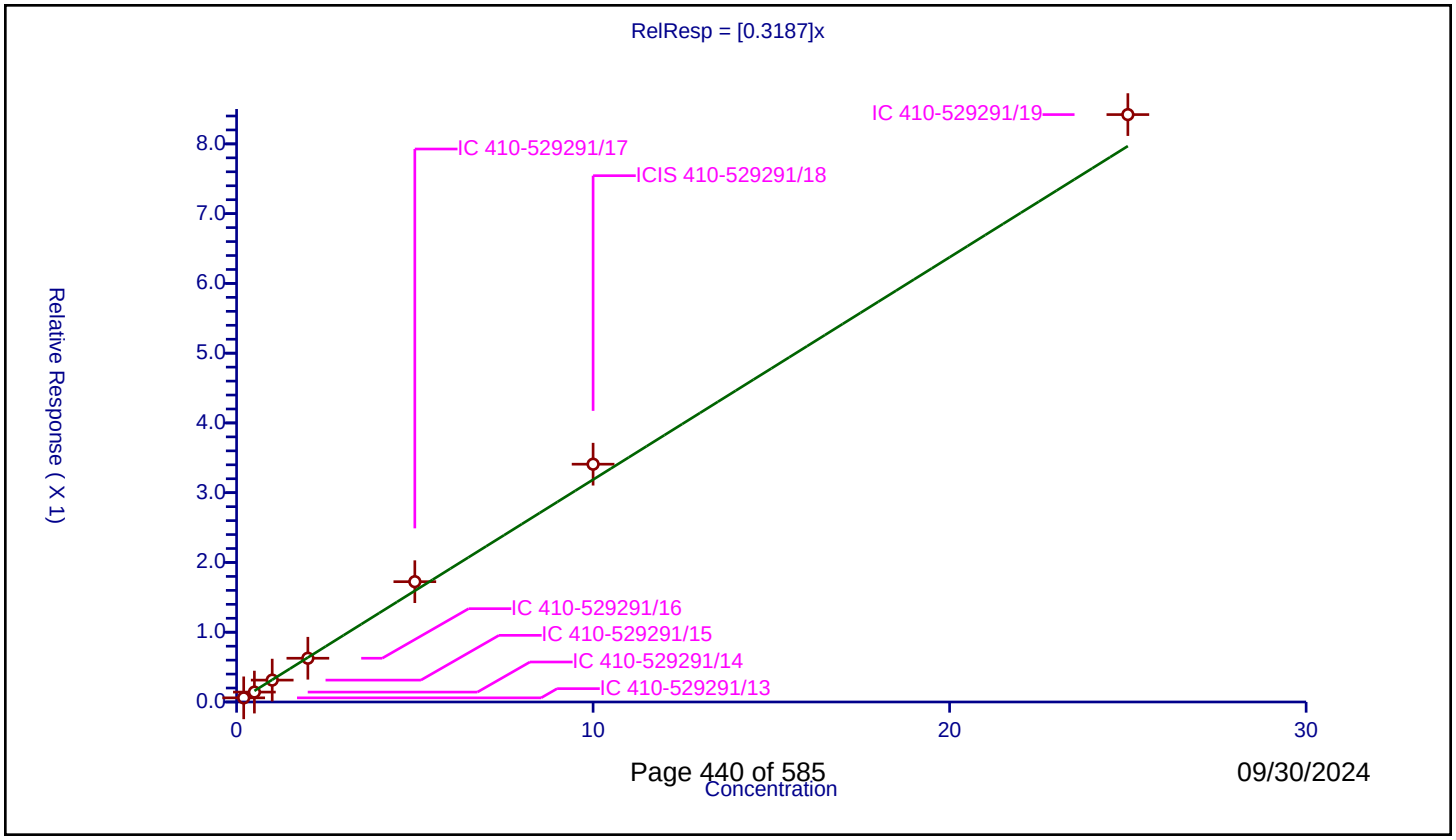
Curve Coefficients

Intercept:	0
Slope:	0.3187

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.059559	10.0	2065681.0	0.297795	Y
2	IC 410-529291/14	0.5	0.14183	10.0	2062328.0	0.28366	Y
3	IC 410-529291/15	1.0	0.313638	10.0	2092414.0	0.313638	Y
4	IC 410-529291/16	2.0	0.627107	10.0	2082929.0	0.313554	Y
5	IC 410-529291/17	5.0	1.724515	10.0	2147537.0	0.344903	Y
6	ICIS 410-529291/18	10.0	3.408901	10.0	2179990.0	0.34089	Y
7	IC 410-529291/19	25.0	8.419984	10.0	2238426.0	0.336799	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

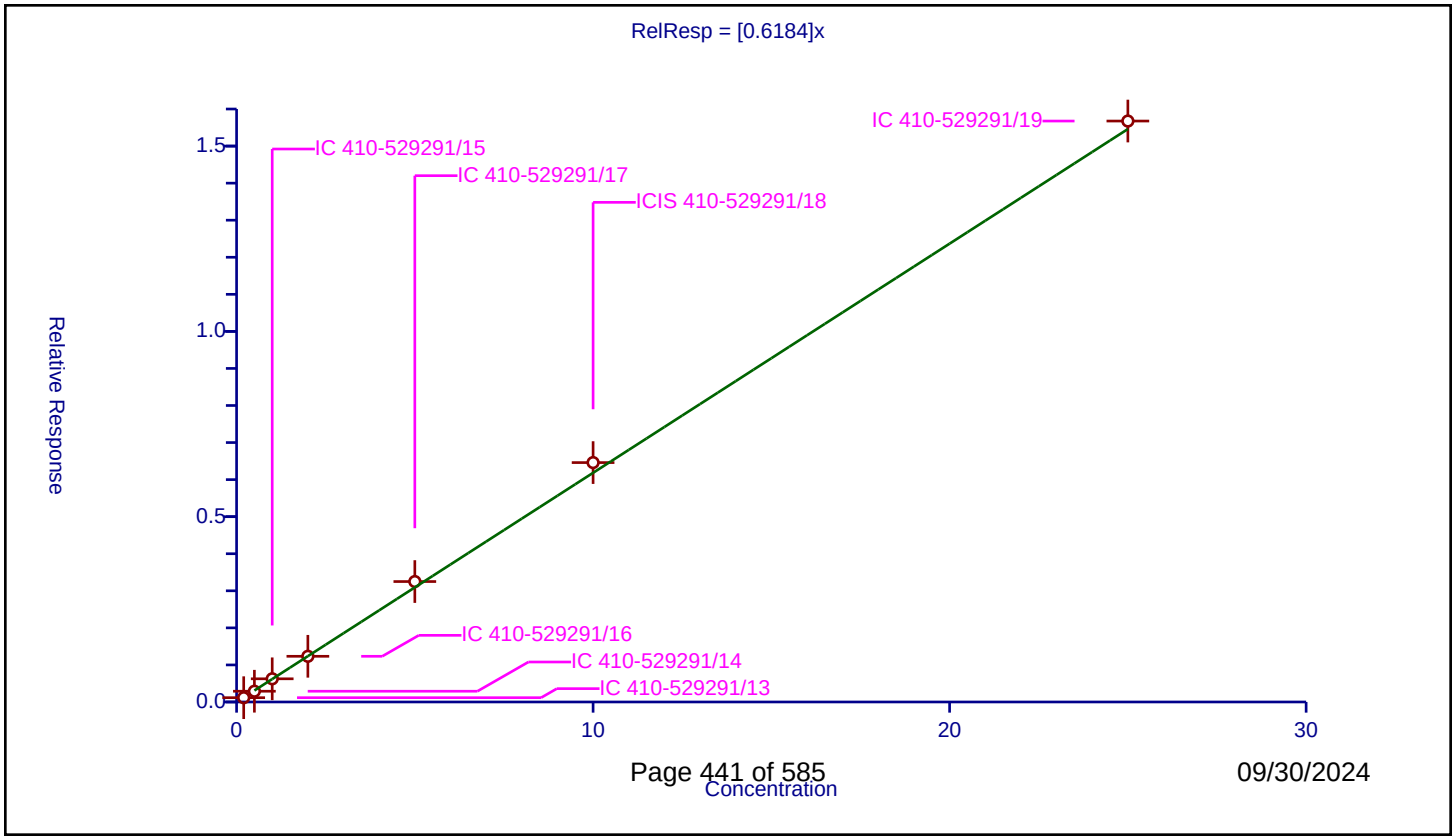
Curve Coefficients

Intercept:	0
Slope:	0.6184

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.11648	10.0	2065681.0	0.582399	Y
2	IC 410-529291/14	0.5	0.290453	10.0	2062328.0	0.580907	Y
3	IC 410-529291/15	1.0	0.625641	10.0	2092414.0	0.625641	Y
4	IC 410-529291/16	2.0	1.233163	10.0	2082929.0	0.616581	Y
5	IC 410-529291/17	5.0	3.250077	10.0	2147537.0	0.650015	Y
6	ICIS 410-529291/18	10.0	6.459832	10.0	2179990.0	0.645983	Y
7	IC 410-529291/19	25.0	15.675399	10.0	2238426.0	0.627016	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

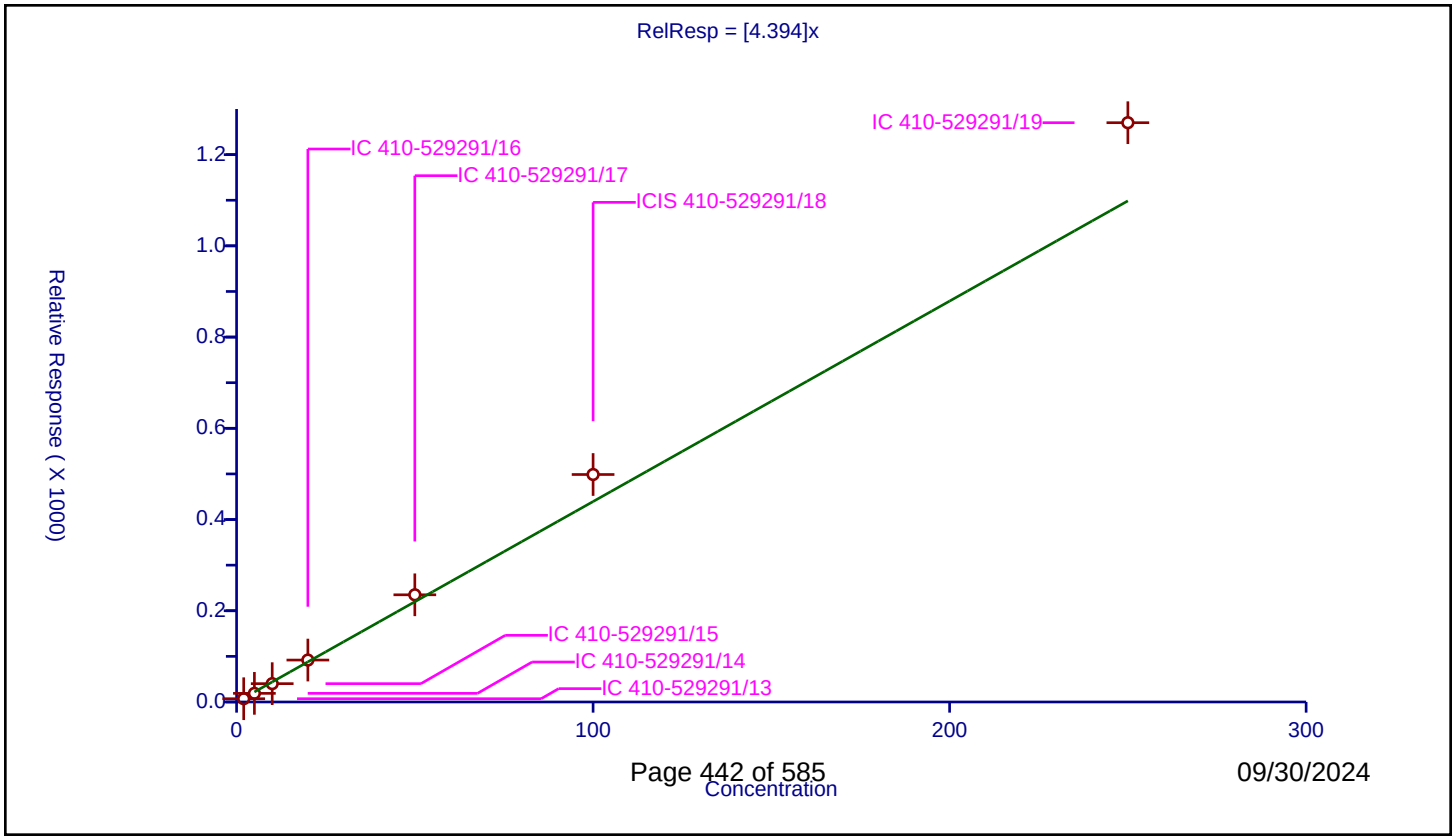
Curve Coefficients

Intercept:	0
Slope:	4.394

Error Coefficients

Relative Standard Deviation:	13.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	2.0	7.189167	50.0	98405.0	3.594584	Y
2	IC 410-529291/14	5.0	18.921727	50.0	101542.0	3.784345	Y
3	IC 410-529291/15	10.0	40.174987	50.0	102122.0	4.017499	Y
4	IC 410-529291/16	20.0	91.950236	50.0	99711.0	4.597512	Y
5	IC 410-529291/17	50.0	235.006529	50.0	110278.0	4.700131	Y
6	ICIS 410-529291/18	100.0	498.696055	50.0	107980.0	4.986961	Y
7	IC 410-529291/19	250.0	1269.993767	50.0	107501.0	5.079975	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

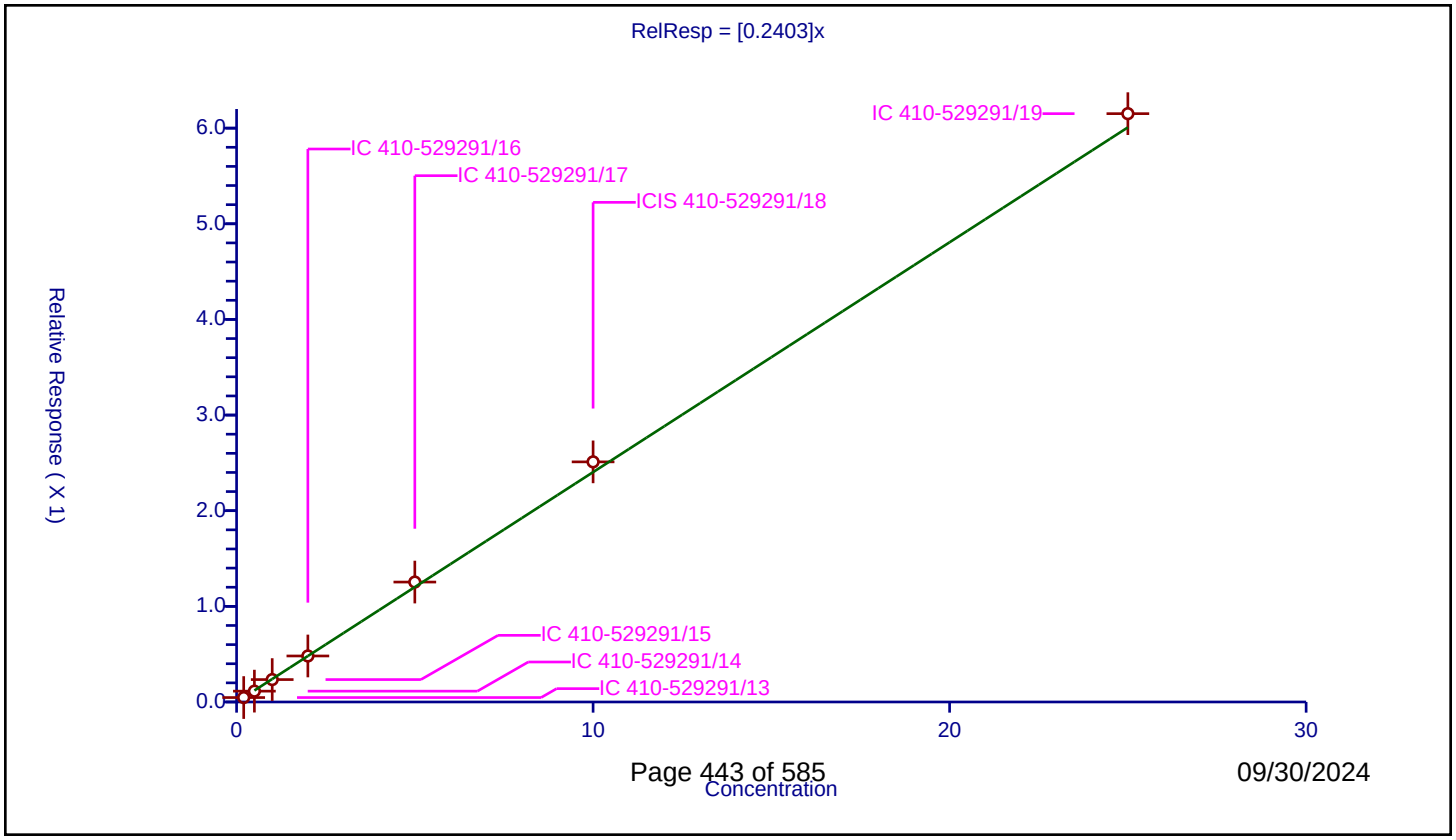
Curve Coefficients

Intercept:	0
Slope:	0.2403

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.046488	10.0	2065681.0	0.232442	Y
2	IC 410-529291/14	0.5	0.113479	10.0	2062328.0	0.226957	Y
3	IC 410-529291/15	1.0	0.234413	10.0	2092414.0	0.234413	Y
4	IC 410-529291/16	2.0	0.481068	10.0	2082929.0	0.240534	Y
5	IC 410-529291/17	5.0	1.253874	10.0	2147537.0	0.250775	Y
6	ICIS 410-529291/18	10.0	2.510649	10.0	2179990.0	0.251065	Y
7	IC 410-529291/19	25.0	6.151376	10.0	2238426.0	0.246055	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

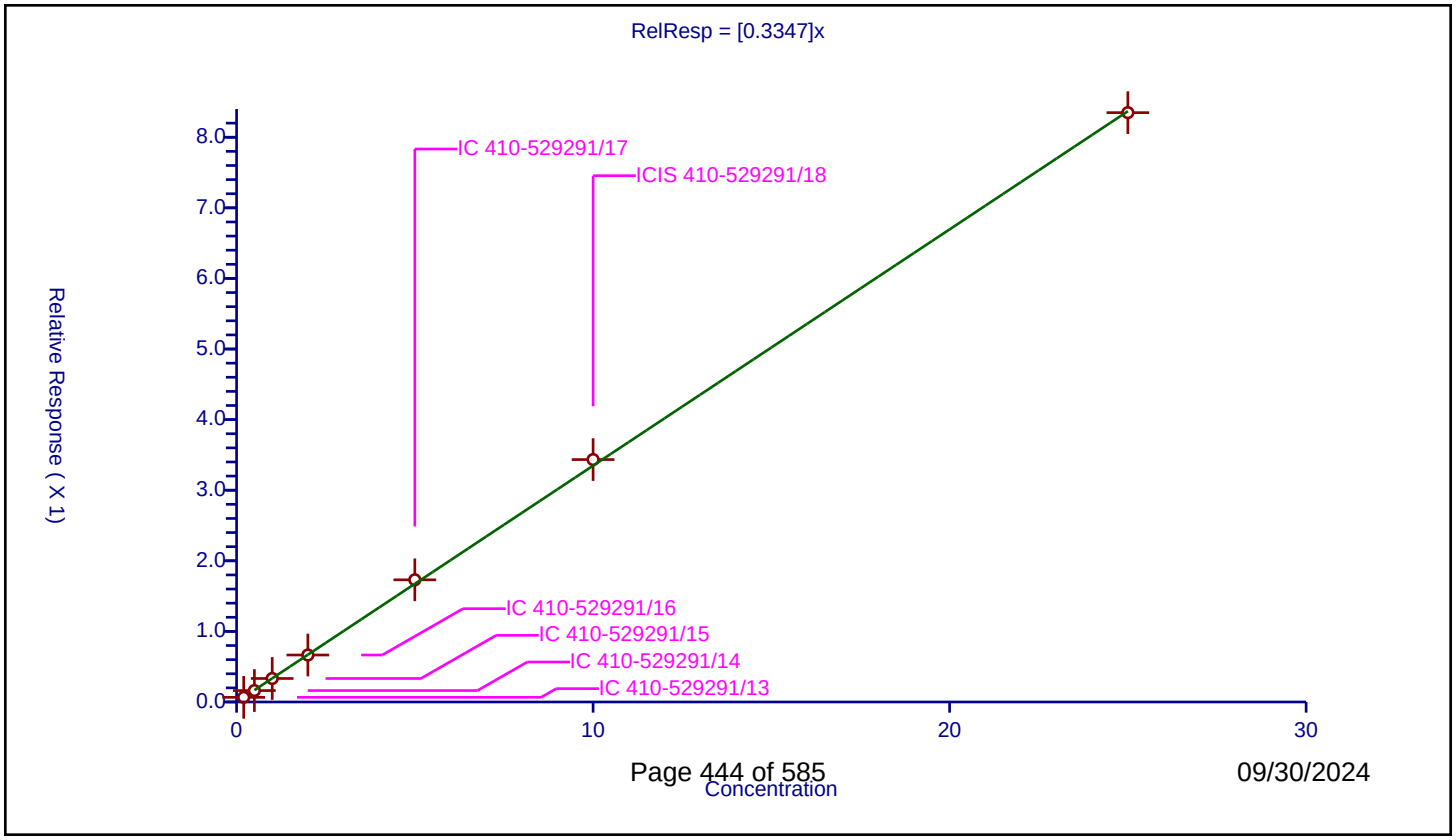
Curve Coefficients

Intercept:	0
Slope:	0.3347

Error Coefficients

Relative Standard Deviation:	2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.06608	10.0	2065681.0	0.3304	Y
2	IC 410-529291/14	0.5	0.161793	10.0	2062328.0	0.323586	Y
3	IC 410-529291/15	1.0	0.333094	10.0	2092414.0	0.333094	Y
4	IC 410-529291/16	2.0	0.665356	10.0	2082929.0	0.332678	Y
5	IC 410-529291/17	5.0	1.73062	10.0	2147537.0	0.346124	Y
6	ICIS 410-529291/18	10.0	3.434002	10.0	2179990.0	0.3434	Y
7	IC 410-529291/19	25.0	8.348728	10.0	2238426.0	0.333949	Y



Calibration / Propionitrile

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

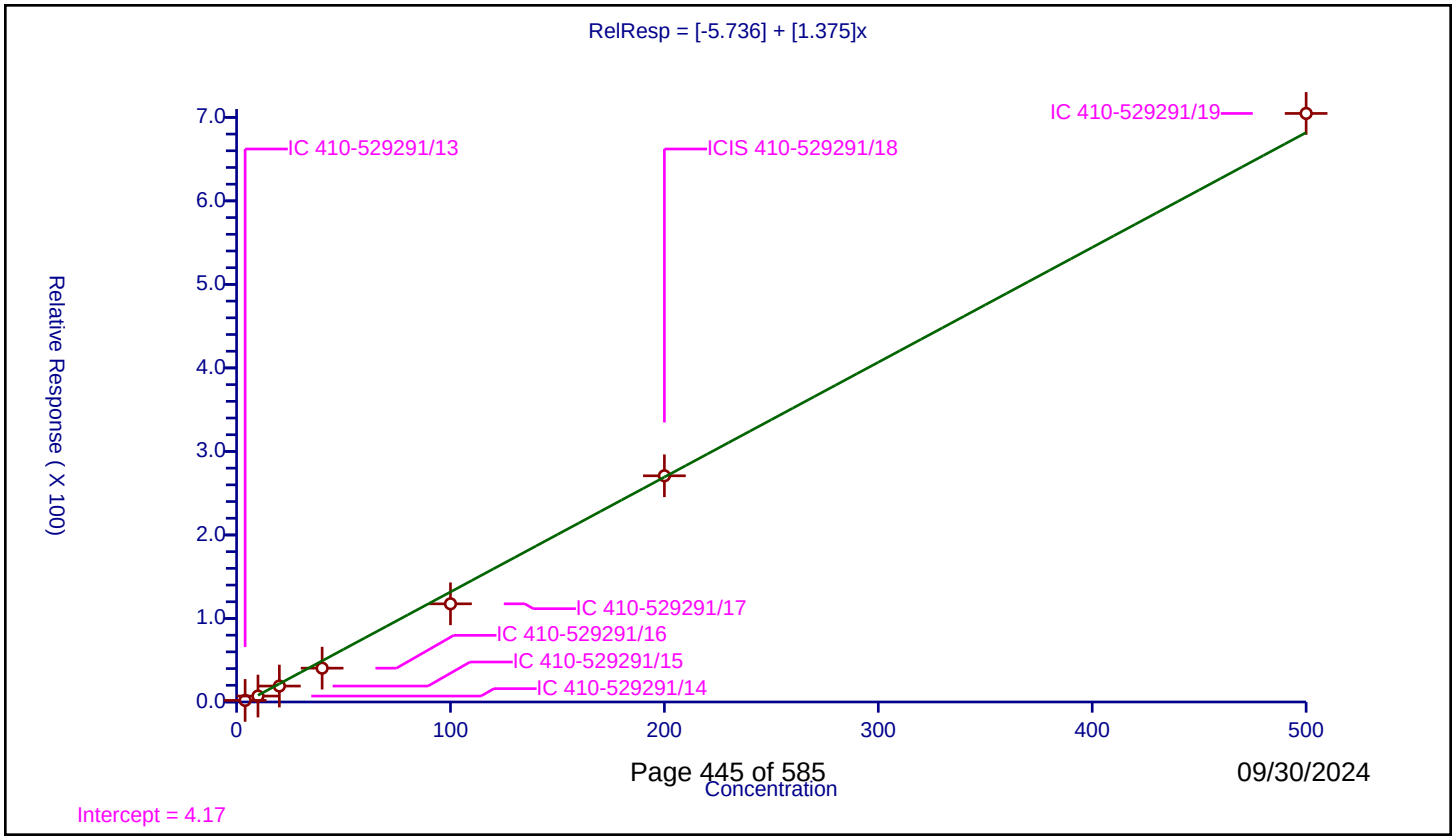
Curve Coefficients

Intercept:	-5.736
Slope:	1.375

Error Coefficients

Relative Standard Deviation:	20.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	4.0	1.901326	50.0	98405.0	0.475332	Y
2	IC 410-529291/14	10.0	7.096078	50.0	101542.0	0.709608	Y
3	IC 410-529291/15	20.0	19.074734	50.0	102122.0	0.953737	Y
4	IC 410-529291/16	40.0	40.492022	50.0	99711.0	1.012301	Y
5	IC 410-529291/17	100.0	117.53931	50.0	110278.0	1.175393	Y
6	ICIS 410-529291/18	200.0	270.840433	50.0	107980.0	1.354202	Y
7	IC 410-529291/19	500.0	704.703212	50.0	107501.0	1.409406	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

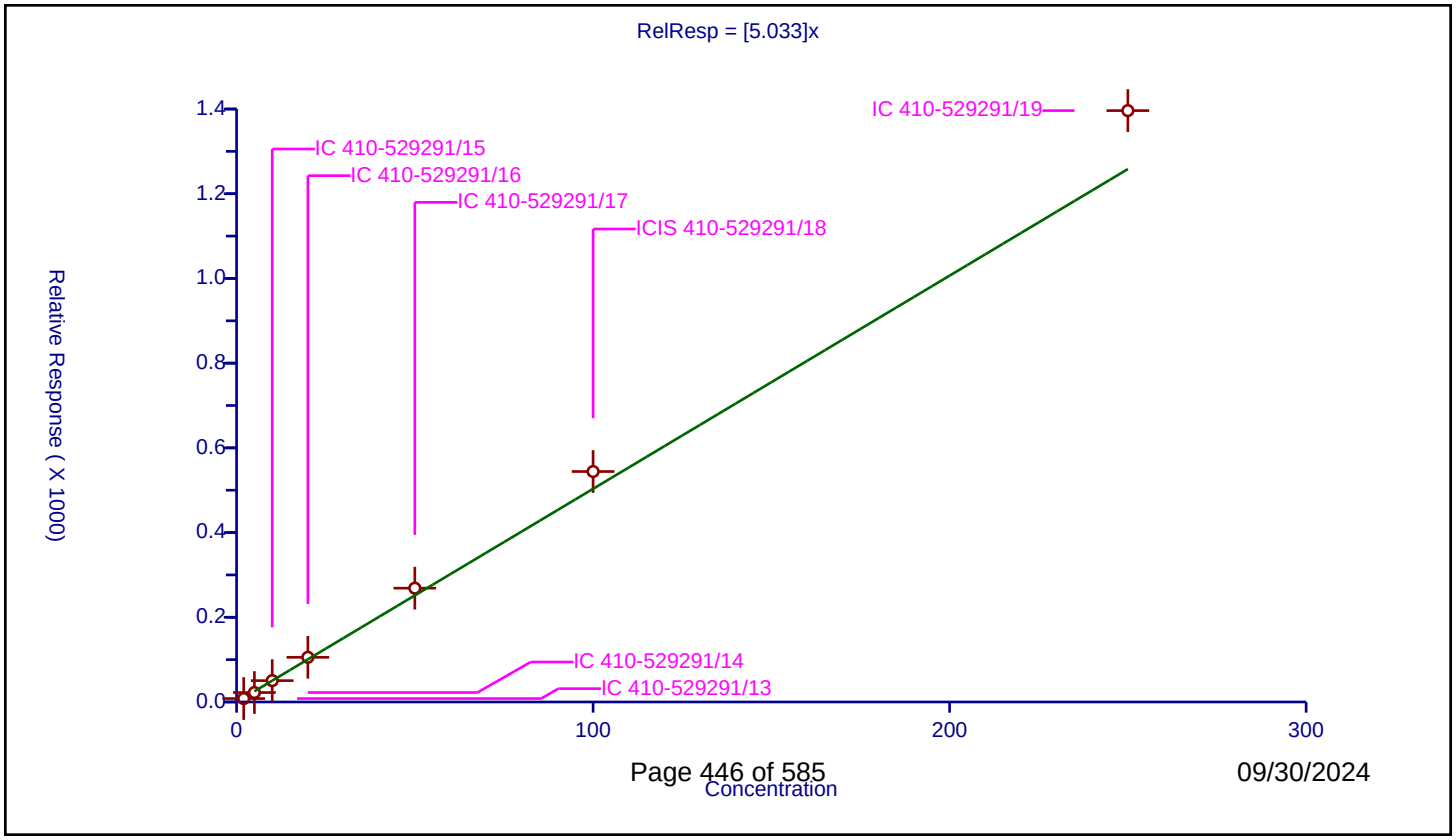
Curve Coefficients

Intercept:	0
Slope:	5.033

Error Coefficients

Relative Standard Deviation:	11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	2.0	8.103247	50.0	98405.0	4.051623	Y
2	IC 410-529291/14	5.0	22.312935	50.0	101542.0	4.462587	Y
3	IC 410-529291/15	10.0	50.384344	50.0	102122.0	5.038434	Y
4	IC 410-529291/16	20.0	105.514437	50.0	99711.0	5.275722	Y
5	IC 410-529291/17	50.0	268.720416	50.0	110278.0	5.374408	Y
6	ICIS 410-529291/18	100.0	544.148916	50.0	107980.0	5.441489	Y
7	IC 410-529291/19	250.0	1396.240965	50.0	107501.0	5.584964	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

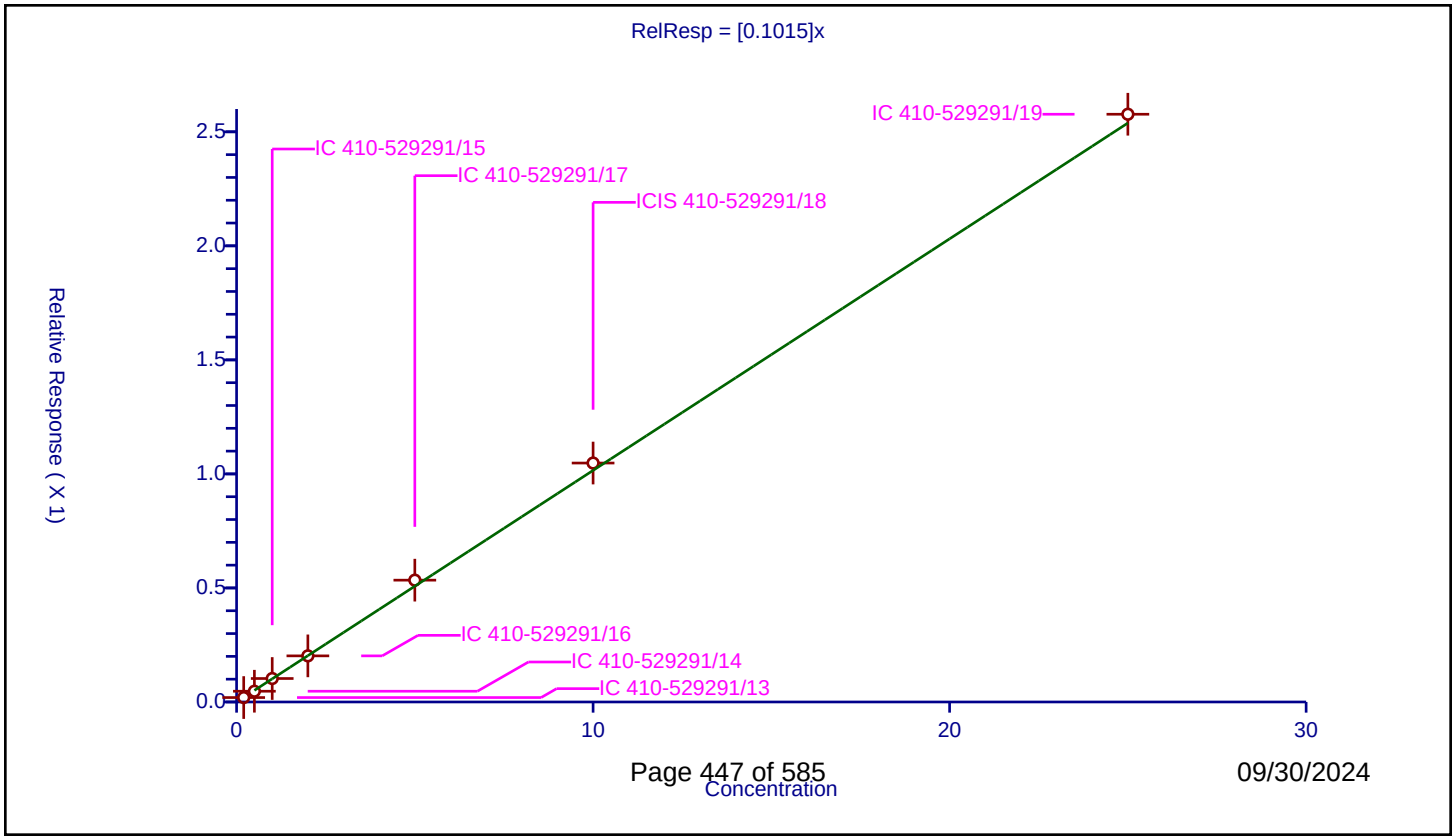
Curve Coefficients

Intercept:	0
Slope:	0.1015

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.019524	10.0	2065681.0	0.097619	Y
2	IC 410-529291/14	0.5	0.047199	10.0	2062328.0	0.094398	Y
3	IC 410-529291/15	1.0	0.102934	10.0	2092414.0	0.102934	Y
4	IC 410-529291/16	2.0	0.202249	10.0	2082929.0	0.101124	Y
5	IC 410-529291/17	5.0	0.534217	10.0	2147537.0	0.106843	Y
6	ICIS 410-529291/18	10.0	1.047665	10.0	2179990.0	0.104767	Y
7	IC 410-529291/19	25.0	2.577128	10.0	2238426.0	0.103085	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

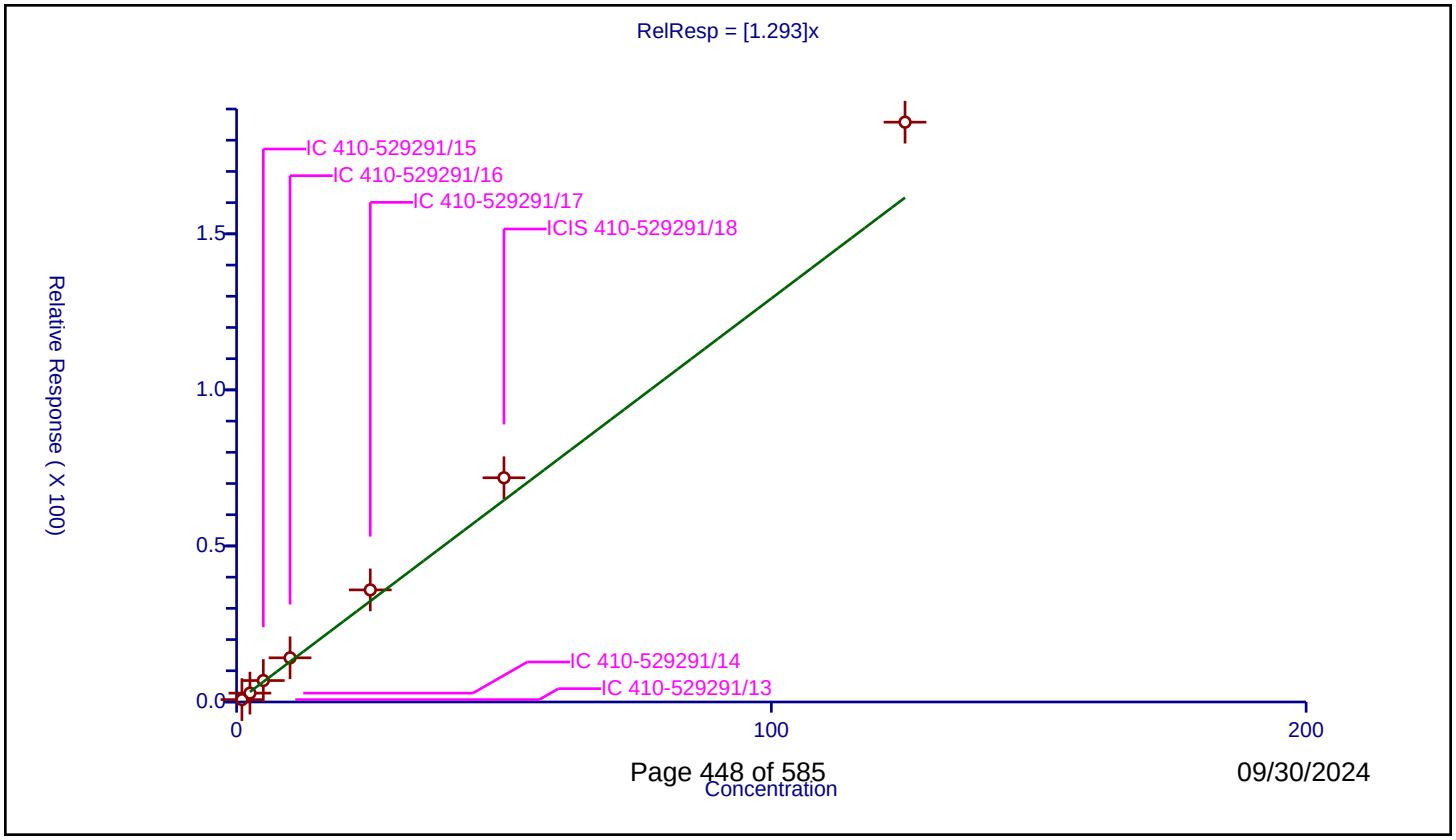
Curve Coefficients

Intercept:	0
Slope:	1.293

Error Coefficients

Relative Standard Deviation:	20.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	1.0	0.765713	50.0	98405.0	0.765713	Y
2	IC 410-529291/14	2.5	2.837742	50.0	101542.0	1.135097	Y
3	IC 410-529291/15	5.0	6.871193	50.0	102122.0	1.374239	Y
4	IC 410-529291/16	10.0	14.156412	50.0	99711.0	1.415641	Y
5	IC 410-529291/17	25.0	35.916502	50.0	110278.0	1.43666	Y
6	ICIS 410-529291/18	50.0	71.843397	50.0	107980.0	1.436868	Y
7	IC 410-529291/19	125.0	185.790365	50.0	107501.0	1.486323	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

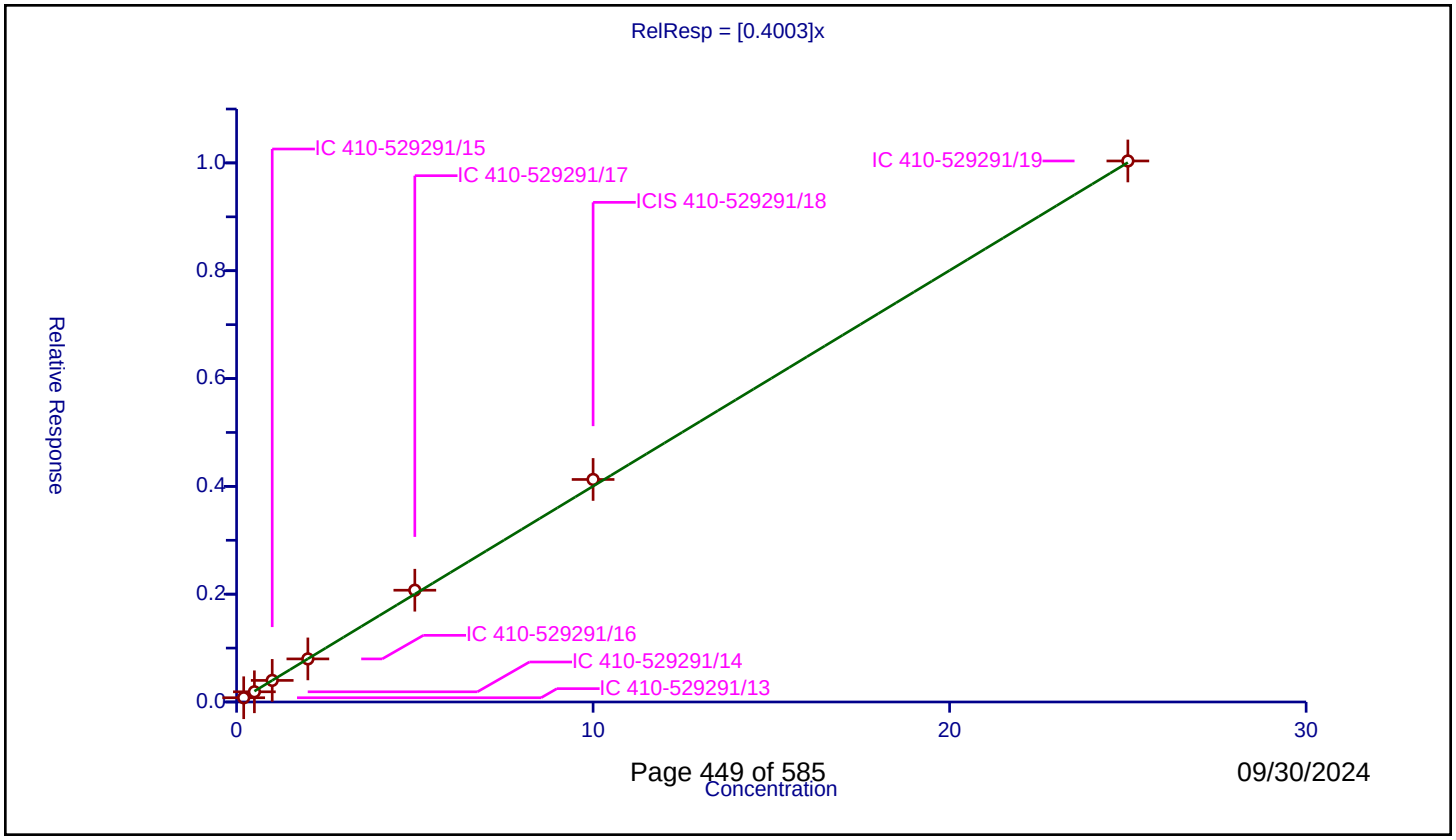
Curve Coefficients

Intercept:	0
Slope:	0.4003

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.078841	10.0	2065681.0	0.394204	Y
2	IC 410-529291/14	0.5	0.189407	10.0	2062328.0	0.378815	Y
3	IC 410-529291/15	1.0	0.400576	10.0	2092414.0	0.400576	Y
4	IC 410-529291/16	2.0	0.79899	10.0	2082929.0	0.399495	Y
5	IC 410-529291/17	5.0	2.073664	10.0	2147537.0	0.414733	Y
6	ICIS 410-529291/18	10.0	4.127927	10.0	2179990.0	0.412793	Y
7	IC 410-529291/19	25.0	10.036155	10.0	2238426.0	0.401446	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

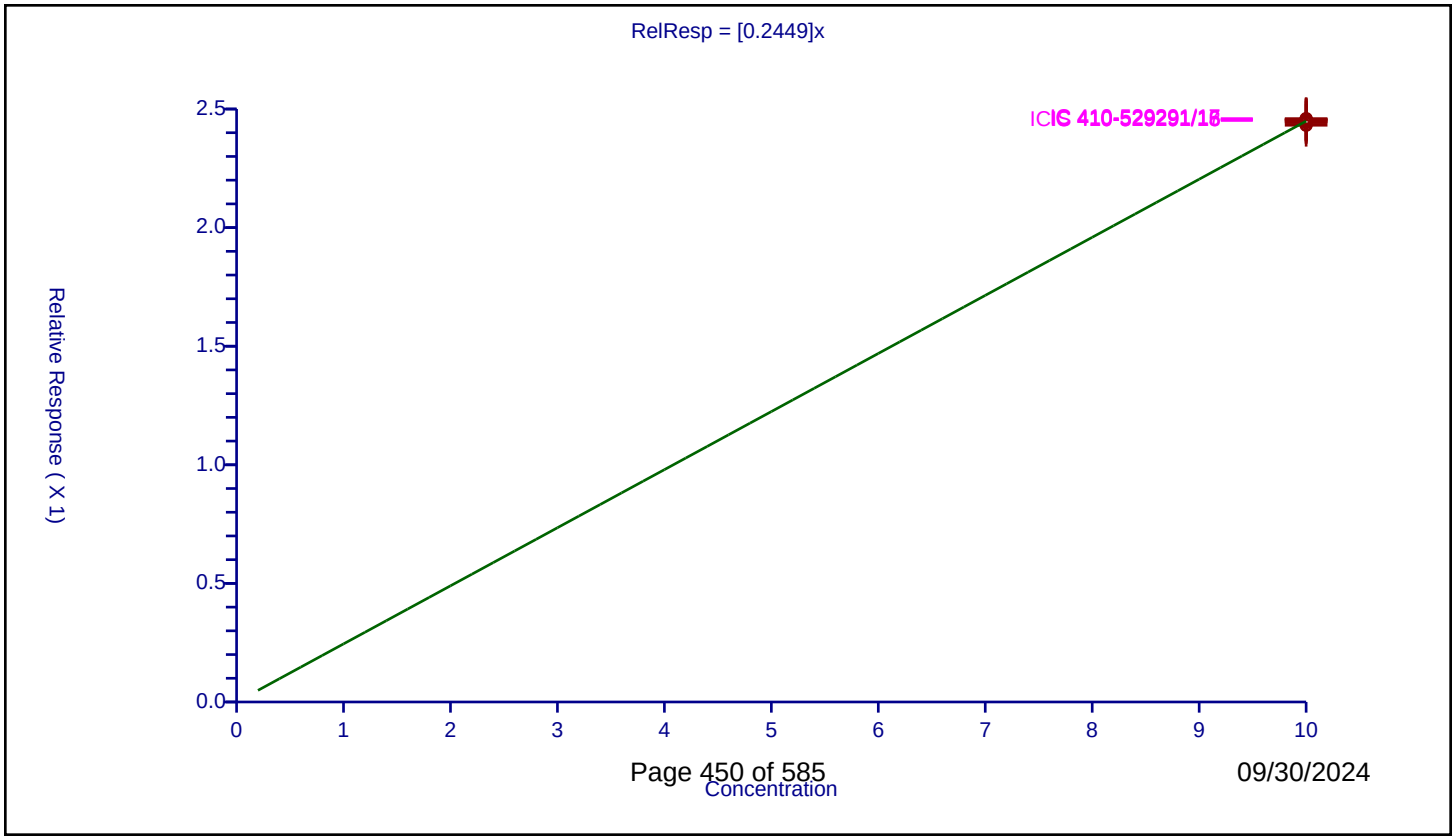
Curve Coefficients

Intercept:	0
Slope:	0.2449

Error Coefficients

Relative Standard Deviation:	0.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	10.0	2.431566	10.0	2065681.0	0.243157	Y
2	IC 410-529291/14	10.0	2.442536	10.0	2062328.0	0.244254	Y
3	IC 410-529291/15	10.0	2.456115	10.0	2092414.0	0.245612	Y
4	IC 410-529291/16	10.0	2.454697	10.0	2082929.0	0.24547	Y
5	IC 410-529291/17	10.0	2.459553	10.0	2147537.0	0.245955	Y
6	ICIS 410-529291/18	10.0	2.451745	10.0	2179990.0	0.245175	Y
7	IC 410-529291/19	10.0	2.445906	10.0	2238426.0	0.244591	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

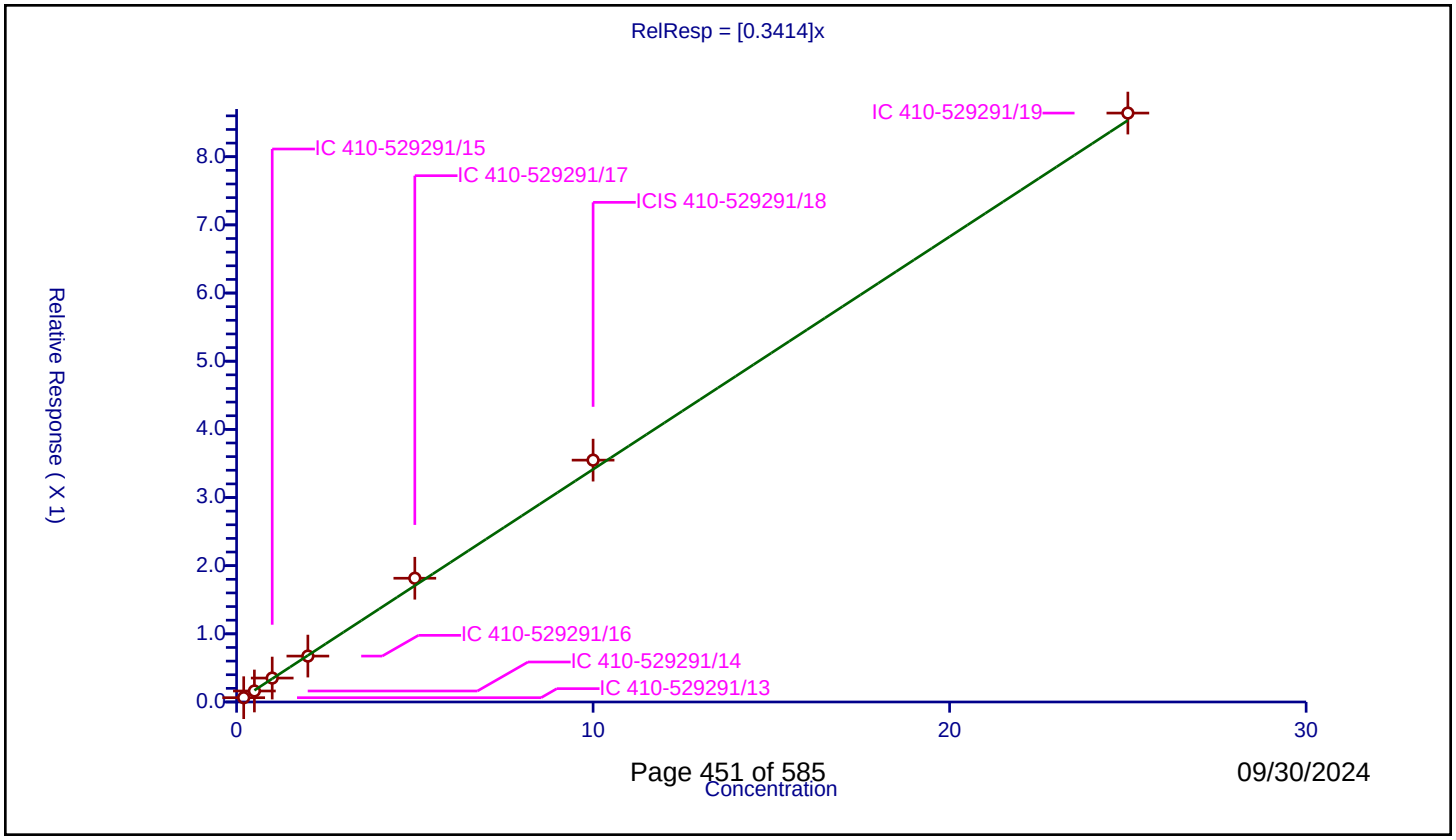
Curve Coefficients

Intercept:	0
Slope:	0.3414

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.063074	10.0	2065681.0	0.315368	Y
2	IC 410-529291/14	0.5	0.161395	10.0	2062328.0	0.322791	Y
3	IC 410-529291/15	1.0	0.351006	10.0	2092414.0	0.351006	Y
4	IC 410-529291/16	2.0	0.67359	10.0	2082929.0	0.336795	Y
5	IC 410-529291/17	5.0	1.815601	10.0	2147537.0	0.36312	Y
6	ICIS 410-529291/18	10.0	3.548319	10.0	2179990.0	0.354832	Y
7	IC 410-529291/19	25.0	8.640491	10.0	2238426.0	0.34562	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

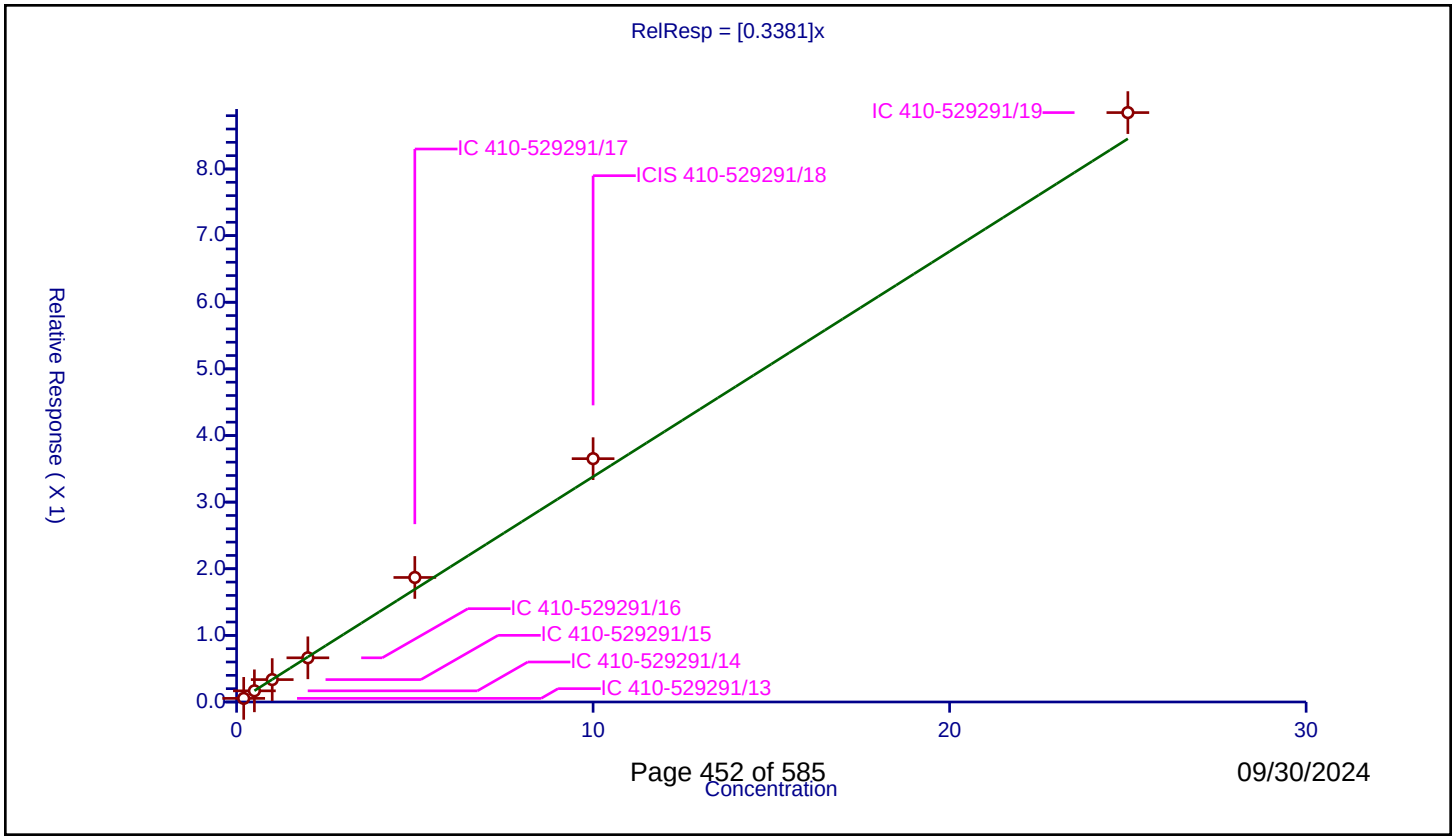
Curve Coefficients

Intercept:	0
Slope:	0.3381

Error Coefficients

Relative Standard Deviation:	9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.054273	10.0	2065681.0	0.271363	Y
2	IC 410-529291/14	0.5	0.167587	10.0	2062328.0	0.335175	Y
3	IC 410-529291/15	1.0	0.336105	10.0	2092414.0	0.336105	Y
4	IC 410-529291/16	2.0	0.662999	10.0	2082929.0	0.3315	Y
5	IC 410-529291/17	5.0	1.869048	10.0	2147537.0	0.37381	Y
6	ICIS 410-529291/18	10.0	3.652173	10.0	2179990.0	0.365217	Y
7	IC 410-529291/19	25.0	8.846162	10.0	2238426.0	0.353846	Y



09/30/2024

Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

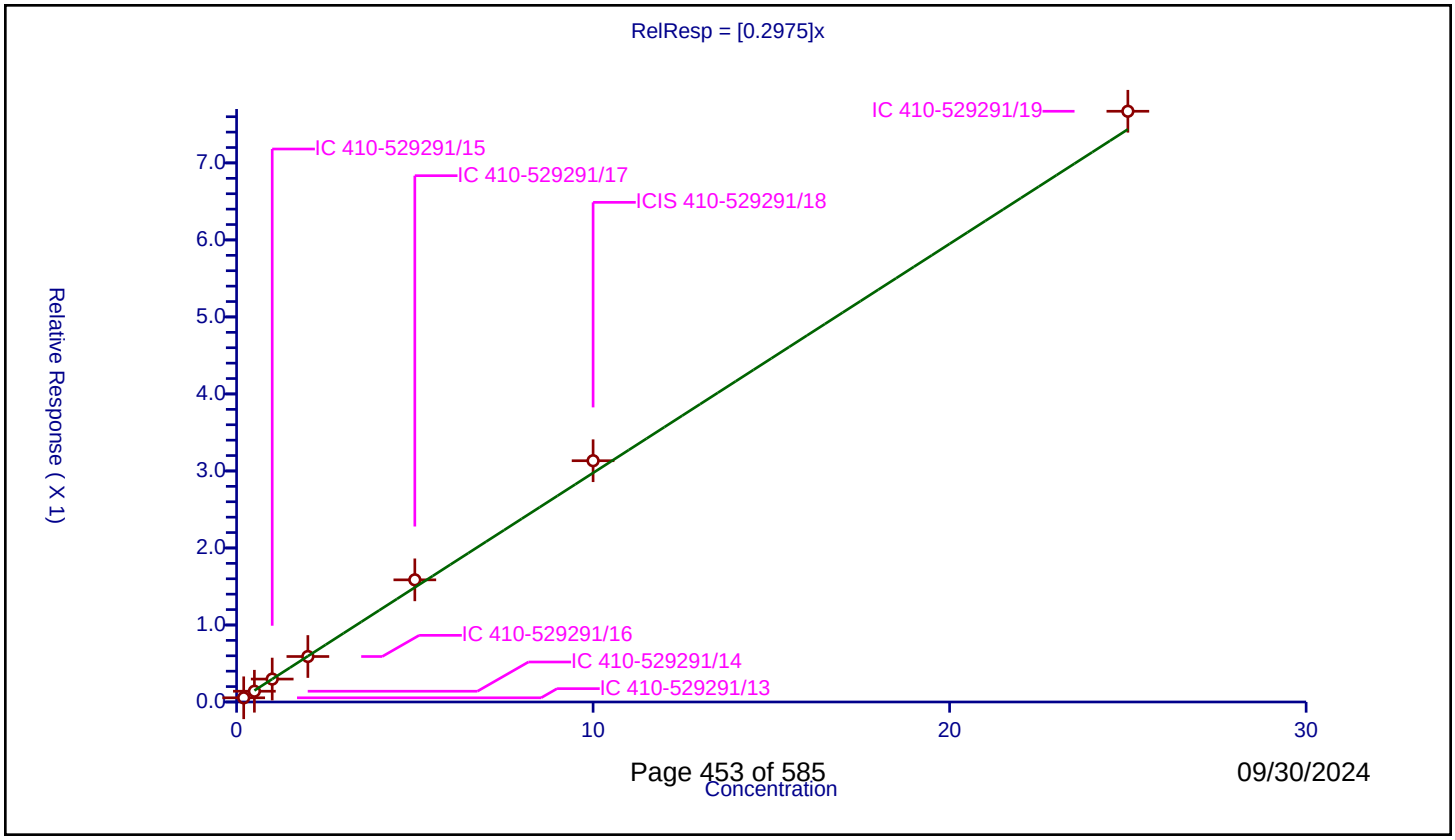
Curve Coefficients

Intercept:	0
Slope:	0.2975

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.054476	10.0	2065681.0	0.27238	Y
2	IC 410-529291/14	0.5	0.139857	10.0	2062328.0	0.279713	Y
3	IC 410-529291/15	1.0	0.297494	10.0	2092414.0	0.297494	Y
4	IC 410-529291/16	2.0	0.590591	10.0	2082929.0	0.295296	Y
5	IC 410-529291/17	5.0	1.585961	10.0	2147537.0	0.317192	Y
6	ICIS 410-529291/18	10.0	3.132849	10.0	2179990.0	0.313285	Y
7	IC 410-529291/19	25.0	7.670944	10.0	2238426.0	0.306838	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

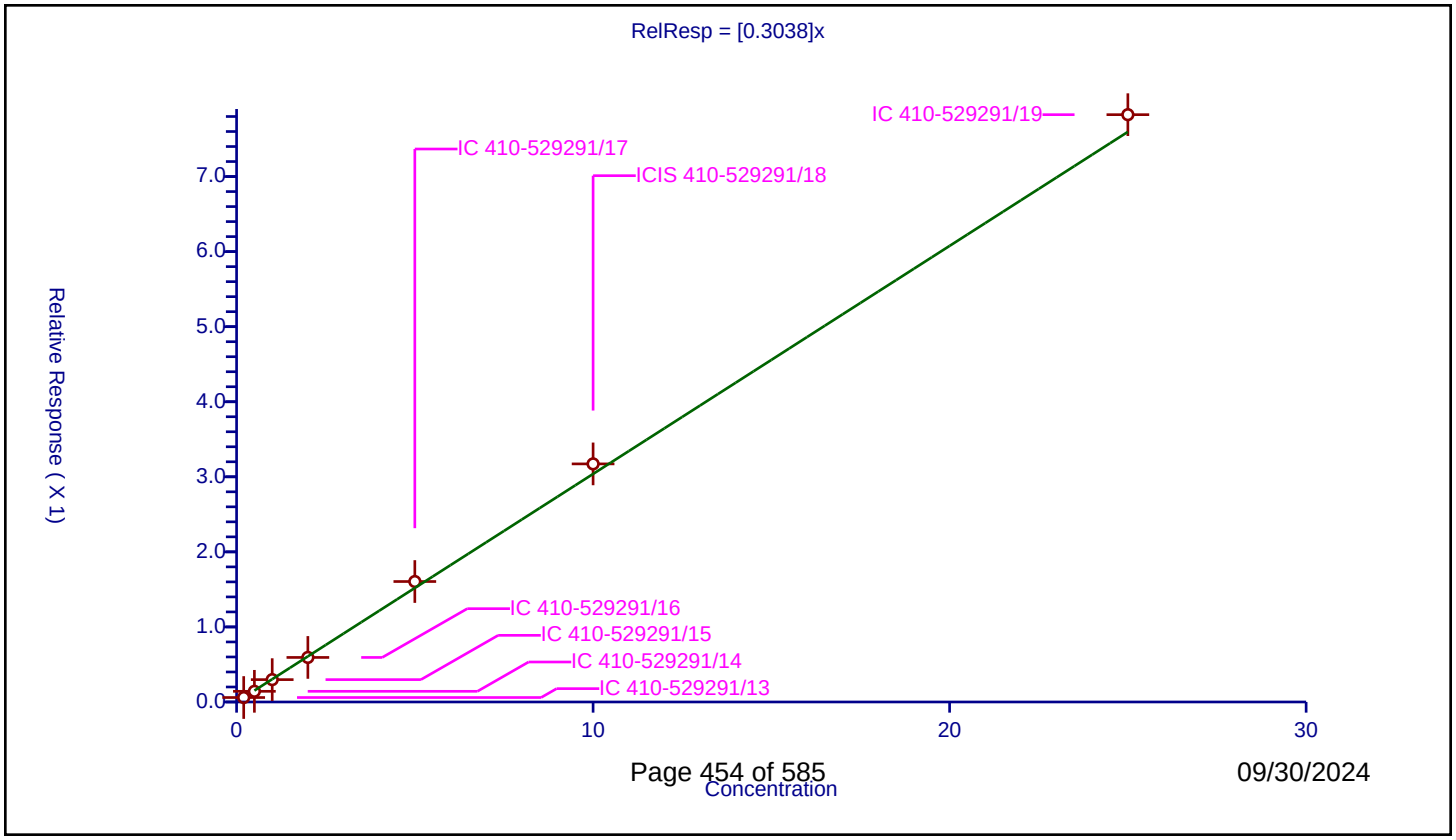
Curve Coefficients

Intercept:	0
Slope:	0.3038

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.05937	10.0	2065681.0	0.296851	Y
2	IC 410-529291/14	0.5	0.142121	10.0	2062328.0	0.284242	Y
3	IC 410-529291/15	1.0	0.297795	10.0	2092414.0	0.297795	Y
4	IC 410-529291/16	2.0	0.593414	10.0	2082929.0	0.296707	Y
5	IC 410-529291/17	5.0	1.60488	10.0	2147537.0	0.320976	Y
6	ICIS 410-529291/18	10.0	3.172125	10.0	2179990.0	0.317212	Y
7	IC 410-529291/19	25.0	7.824632	10.0	2238426.0	0.312985	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

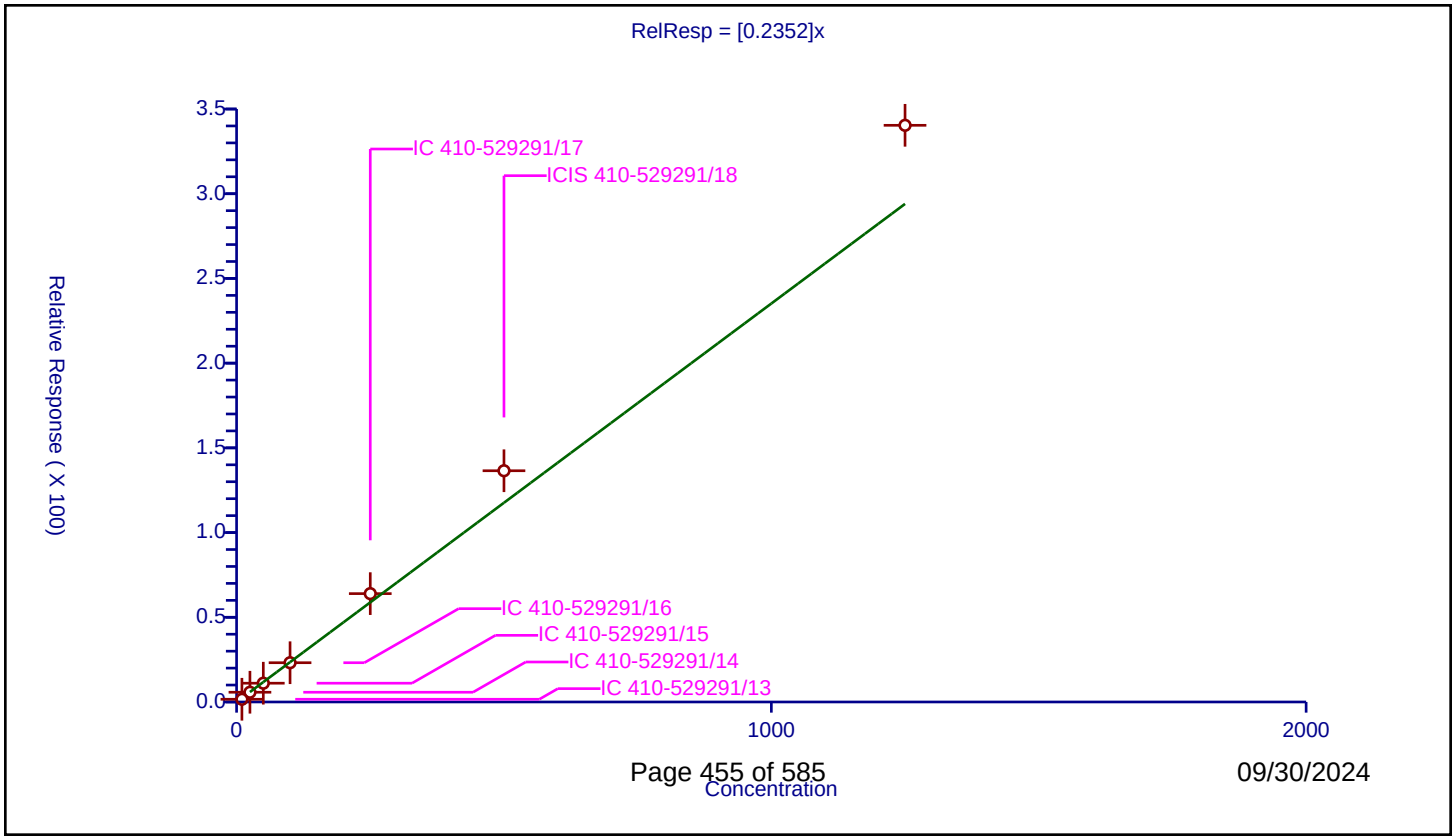
Curve Coefficients

Intercept:	0
Slope:	0.2352

Error Coefficients

Relative Standard Deviation:	16.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	10.0	1.613231	50.0	98405.0	0.161323	Y
2	IC 410-529291/14	25.0	5.755254	50.0	101542.0	0.23021	Y
3	IC 410-529291/15	50.0	11.096042	50.0	102122.0	0.221921	Y
4	IC 410-529291/16	100.0	23.180993	50.0	99711.0	0.23181	Y
5	IC 410-529291/17	250.0	63.956546	50.0	110278.0	0.255826	Y
6	ICIS 410-529291/18	500.0	136.495647	50.0	107980.0	0.272991	Y
7	IC 410-529291/19	1250.0	340.38381	50.0	107501.0	0.272307	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

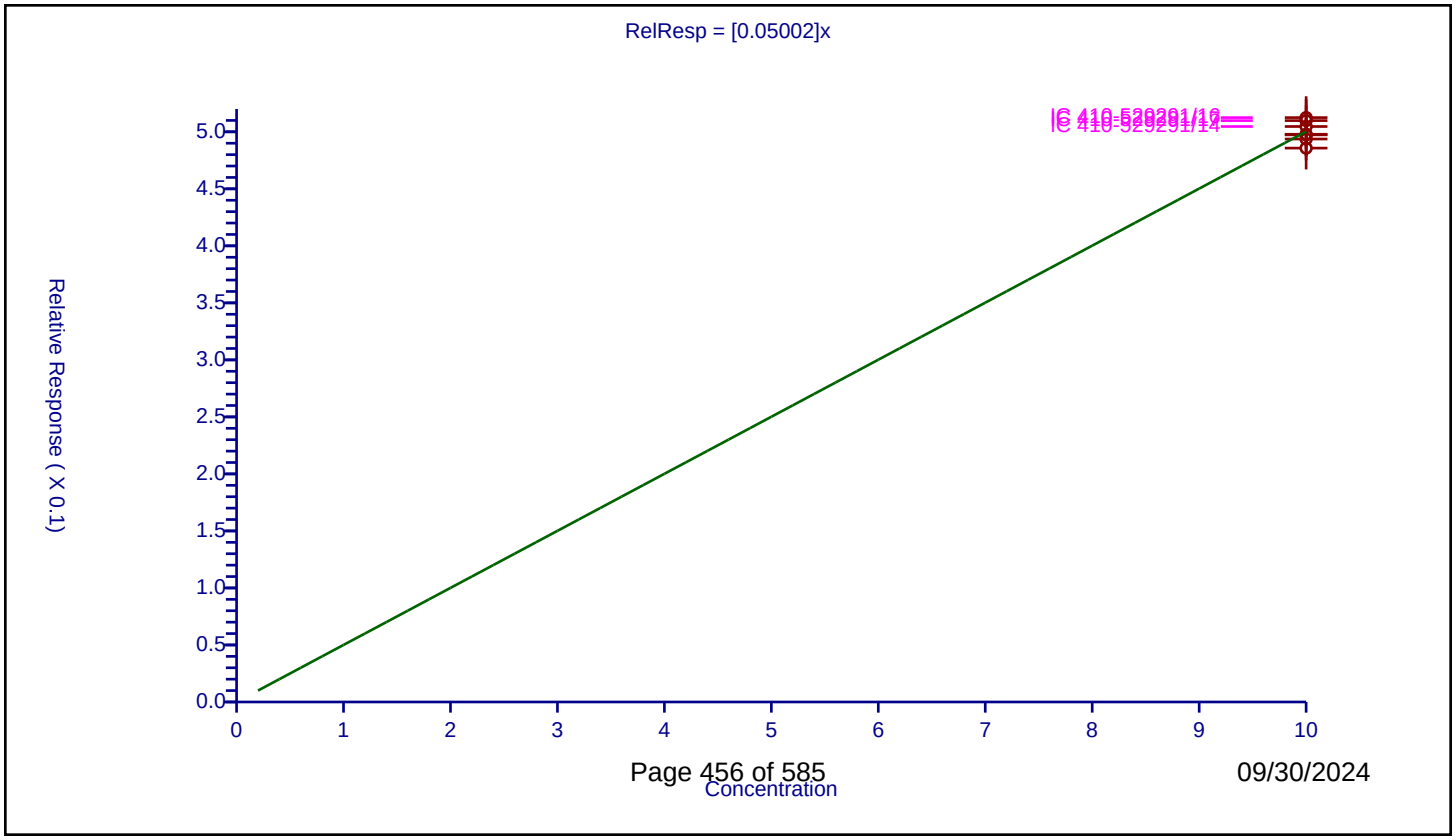
Curve Coefficients

Intercept:	0
Slope:	0.05002

Error Coefficients

Relative Standard Deviation:	1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	10.0	0.485724	10.0	2065681.0	0.048572	Y
2	IC 410-529291/14	10.0	0.504658	10.0	2062328.0	0.050466	Y
3	IC 410-529291/15	10.0	0.497851	10.0	2092414.0	0.049785	Y
4	IC 410-529291/16	10.0	0.51248	10.0	2082929.0	0.051248	Y
5	IC 410-529291/17	10.0	0.509817	10.0	2147537.0	0.050982	Y
6	ICIS 410-529291/18	10.0	0.49369	10.0	2179990.0	0.049369	Y
7	IC 410-529291/19	10.0	0.497332	10.0	2238426.0	0.049733	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

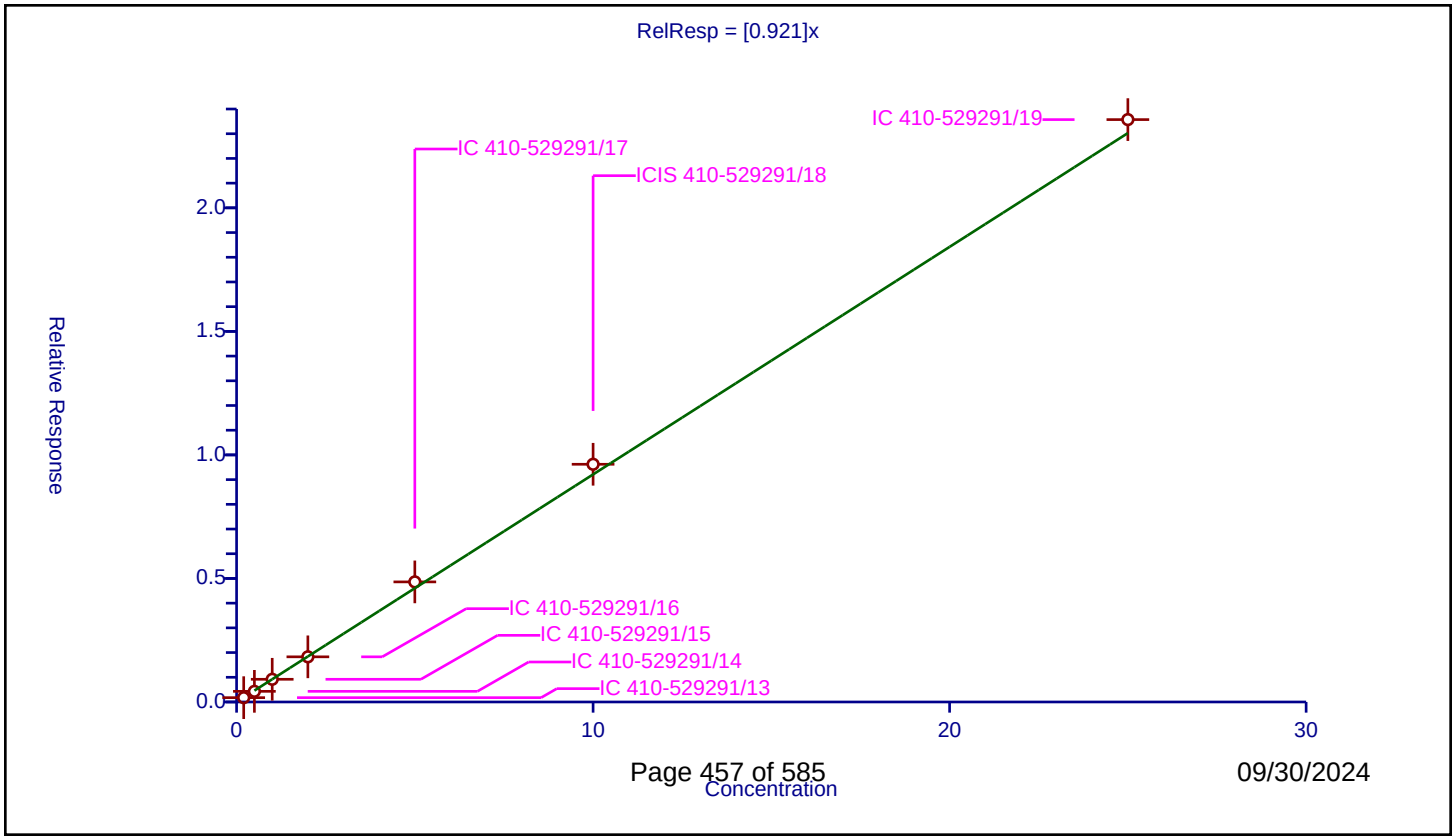
Curve Coefficients

Intercept:	0
Slope:	0.921

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.175075	10.0	2065681.0	0.875377	Y
2	IC 410-529291/14	0.5	0.431163	10.0	2062328.0	0.862326	Y
3	IC 410-529291/15	1.0	0.918504	10.0	2092414.0	0.918504	Y
4	IC 410-529291/16	2.0	1.827321	10.0	2082929.0	0.913661	Y
5	IC 410-529291/17	5.0	4.860969	10.0	2147537.0	0.972194	Y
6	ICIS 410-529291/18	10.0	9.621292	10.0	2179990.0	0.962129	Y
7	IC 410-529291/19	25.0	23.571724	10.0	2238426.0	0.942869	Y



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Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

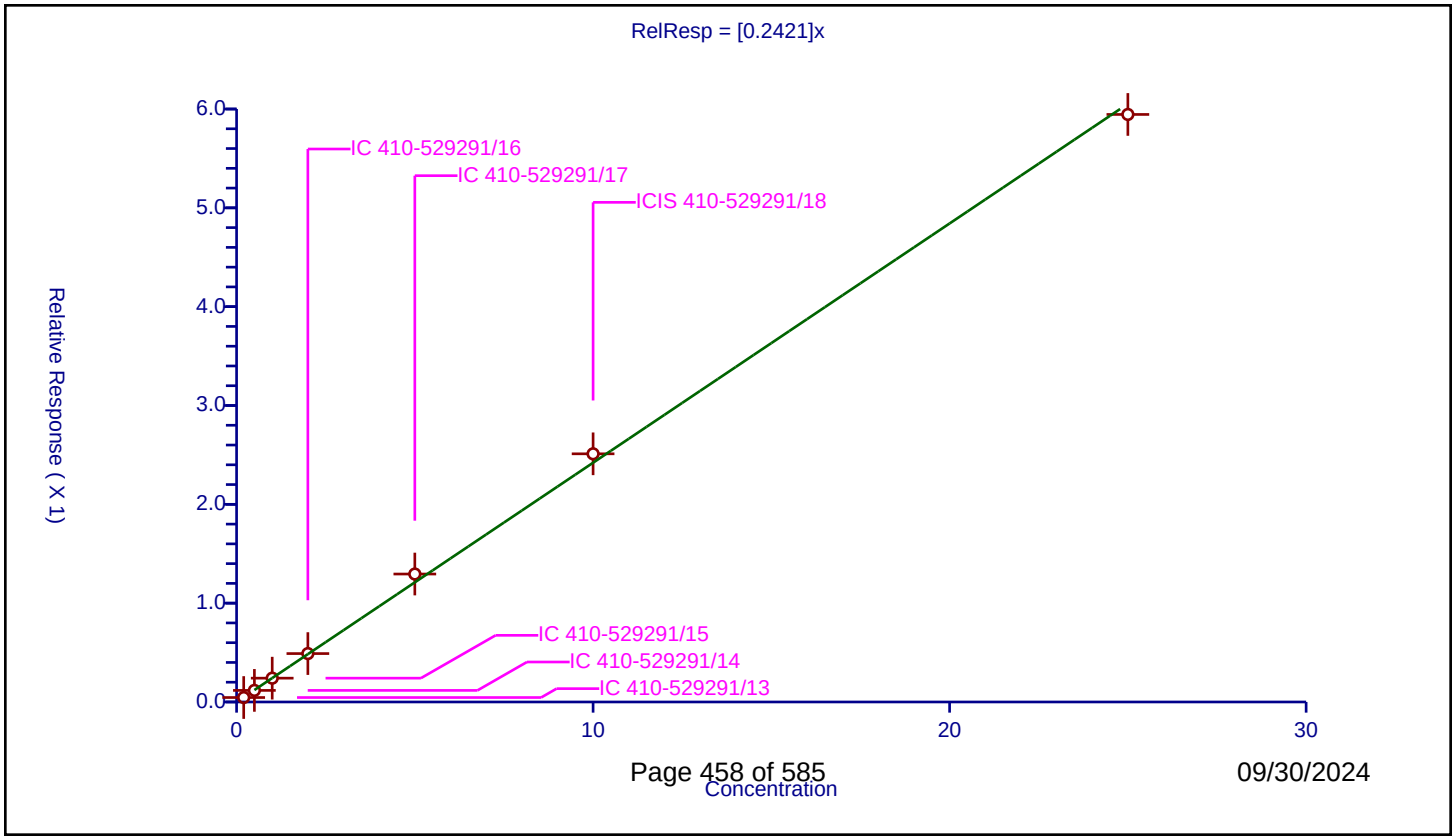
Curve Coefficients

Intercept:	0
Slope:	0.2421

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.045249	10.0	2065681.0	0.226245	Y
2	IC 410-529291/14	0.5	0.11729	10.0	2062328.0	0.23458	Y
3	IC 410-529291/15	1.0	0.241052	10.0	2092414.0	0.241052	Y
4	IC 410-529291/16	2.0	0.489897	10.0	2082929.0	0.244948	Y
5	IC 410-529291/17	5.0	1.294837	10.0	2147537.0	0.258967	Y
6	ICIS 410-529291/18	10.0	2.51108	10.0	2179990.0	0.251108	Y
7	IC 410-529291/19	25.0	5.945061	10.0	2238426.0	0.237802	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

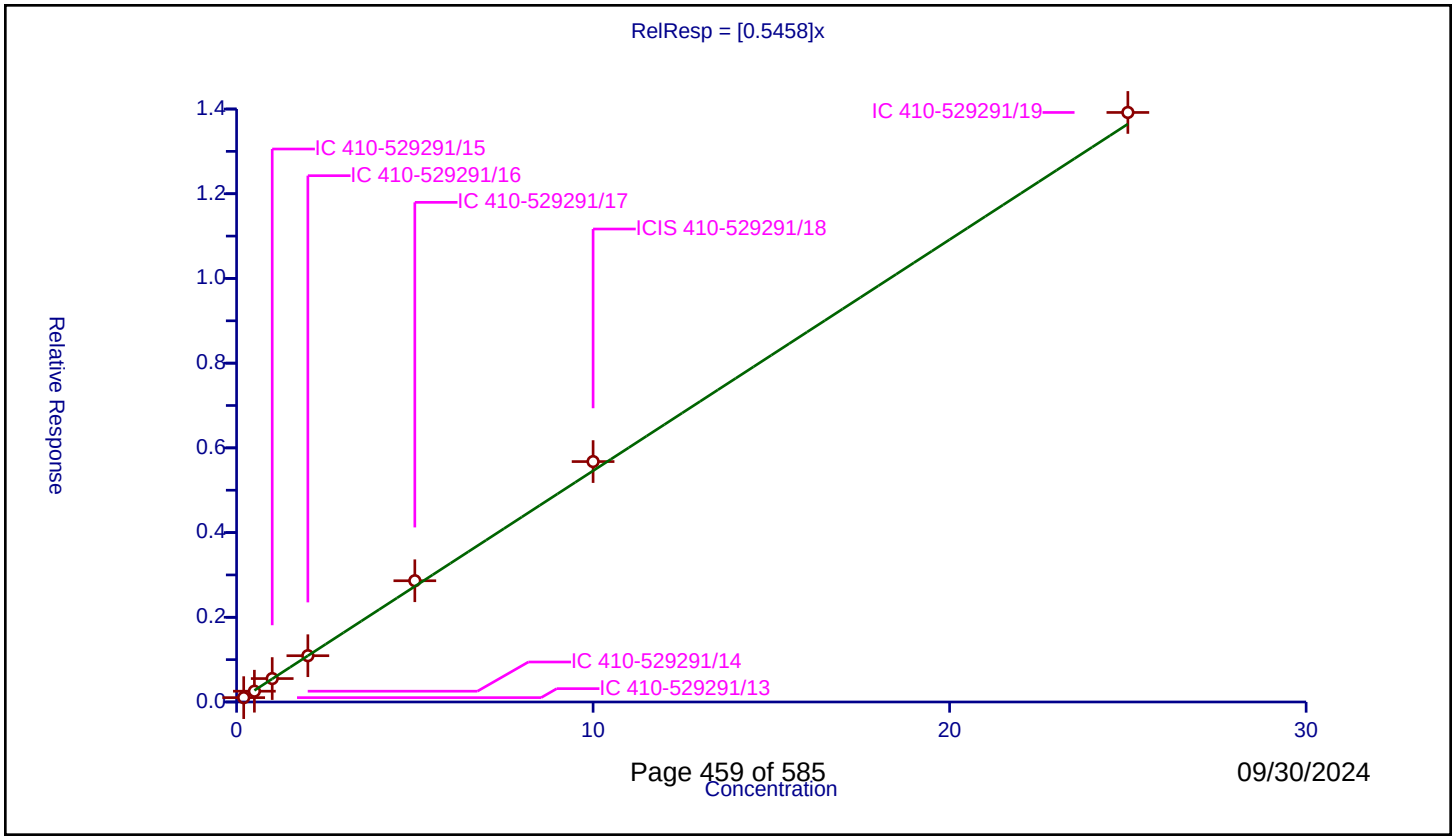
Curve Coefficients

Intercept:	0
Slope:	0.5458

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.102964	10.0	2065681.0	0.514818	Y
2	IC 410-529291/14	0.5	0.254732	10.0	2062328.0	0.509463	Y
3	IC 410-529291/15	1.0	0.553385	10.0	2092414.0	0.553385	Y
4	IC 410-529291/16	2.0	1.092735	10.0	2082929.0	0.546368	Y
5	IC 410-529291/17	5.0	2.862419	10.0	2147537.0	0.572484	Y
6	ICIS 410-529291/18	10.0	5.675879	10.0	2179990.0	0.567588	Y
7	IC 410-529291/19	25.0	13.91862	10.0	2238426.0	0.556745	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

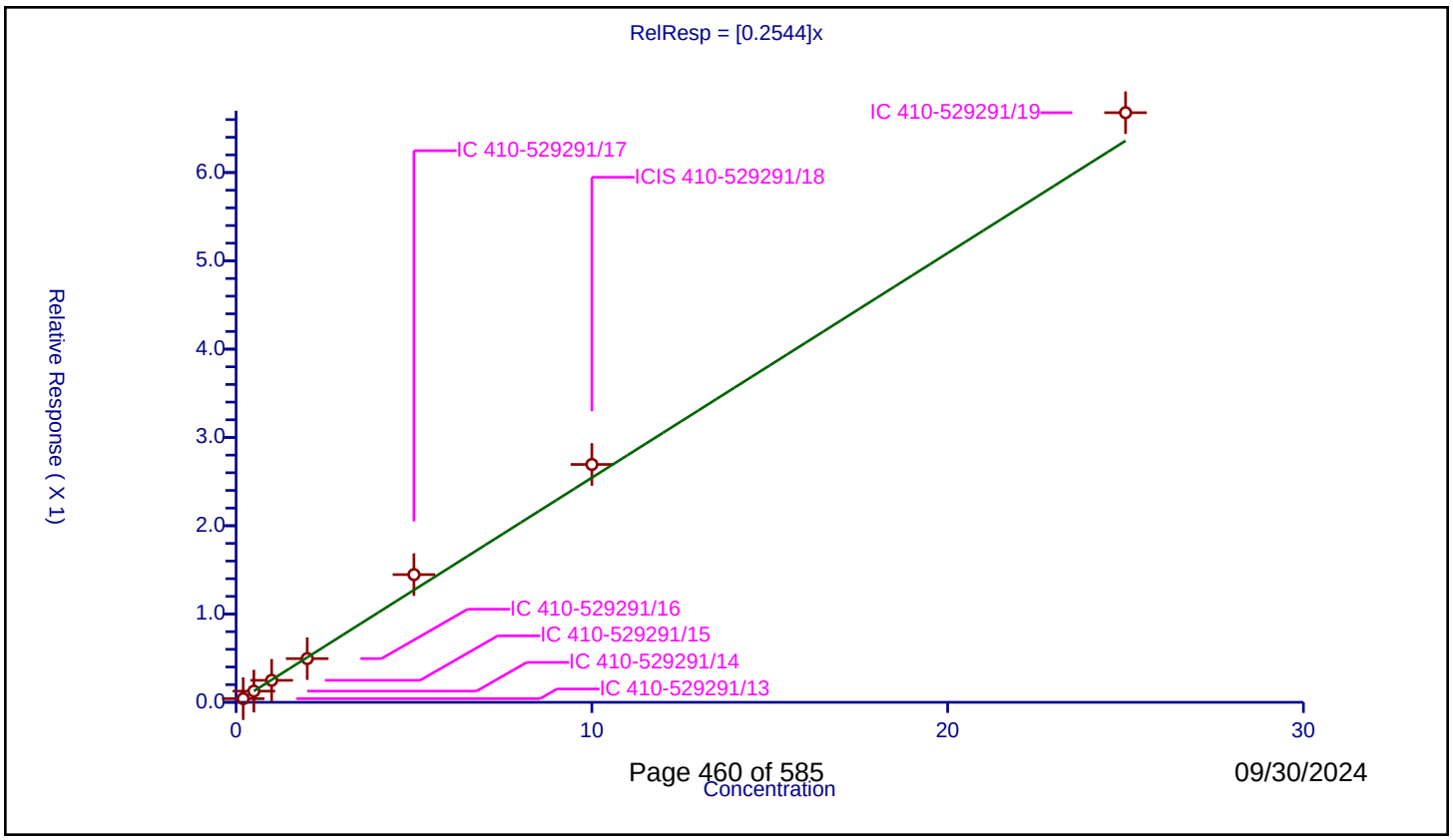
Curve Coefficients

Intercept:	0
Slope:	0.2544

Error Coefficients

Relative Standard Deviation:	10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.041042	10.0	2065681.0	0.205211	Y
2	IC 410-529291/14	0.5	0.126648	10.0	2062328.0	0.253296	Y
3	IC 410-529291/15	1.0	0.248923	10.0	2092414.0	0.248923	Y
4	IC 410-529291/16	2.0	0.495038	10.0	2082929.0	0.247519	Y
5	IC 410-529291/17	5.0	1.446401	10.0	2147537.0	0.28928	Y
6	ICIS 410-529291/18	10.0	2.694127	10.0	2179990.0	0.269413	Y
7	IC 410-529291/19	25.0	6.677867	10.0	2238426.0	0.267115	Y



Calibration / n-Butanol

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

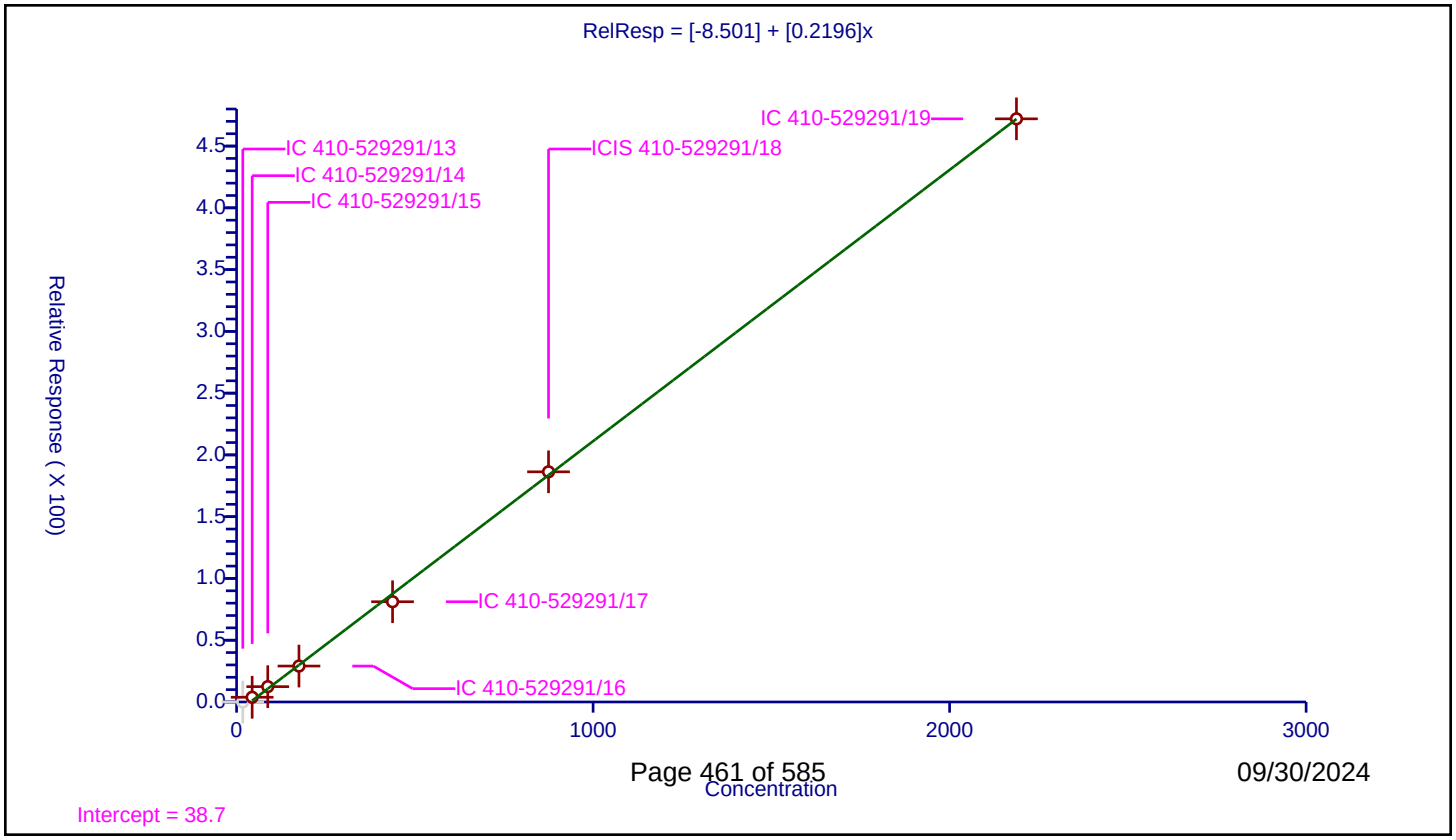
Curve Coefficients

Intercept:	-8.501
Slope:	0.2196

Error Coefficients

Relative Standard Deviation:	15.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	17.5	0.0	50.0	98405.0	0.0	N
2	IC 410-529291/14	43.75	3.830927	50.0	101542.0	0.087564	Y
3	IC 410-529291/15	87.5	12.432679	50.0	102122.0	0.142088	Y
4	IC 410-529291/16	175.0	29.08656	50.0	99711.0	0.166209	Y
5	IC 410-529291/17	437.5	81.154446	50.0	110278.0	0.185496	Y
6	ICIS 410-529291/18	875.0	186.31228	50.0	107980.0	0.212928	Y
7	IC 410-529291/19	2187.5	472.053283	50.0	107501.0	0.215796	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

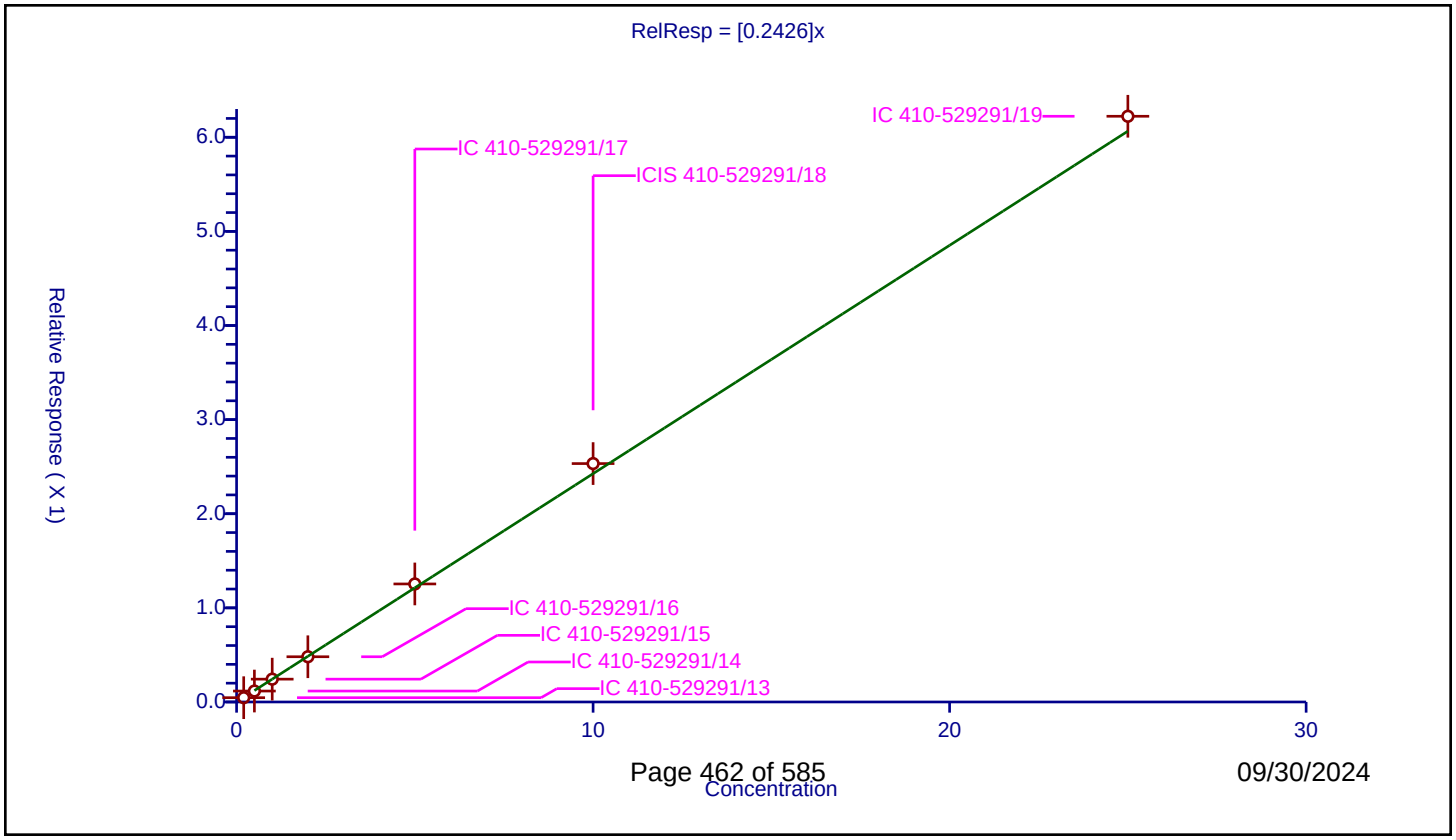
Curve Coefficients

Intercept:	0
Slope:	0.2426

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.045849	10.0	2065681.0	0.229246	Y
2	IC 410-529291/14	0.5	0.116436	10.0	2062328.0	0.232873	Y
3	IC 410-529291/15	1.0	0.242567	10.0	2092414.0	0.242567	Y
4	IC 410-529291/16	2.0	0.480712	10.0	2082929.0	0.240356	Y
5	IC 410-529291/17	5.0	1.253967	10.0	2147537.0	0.250793	Y
6	ICIS 410-529291/18	10.0	2.533048	10.0	2179990.0	0.253305	Y
7	IC 410-529291/19	25.0	6.222877	10.0	2238426.0	0.248915	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

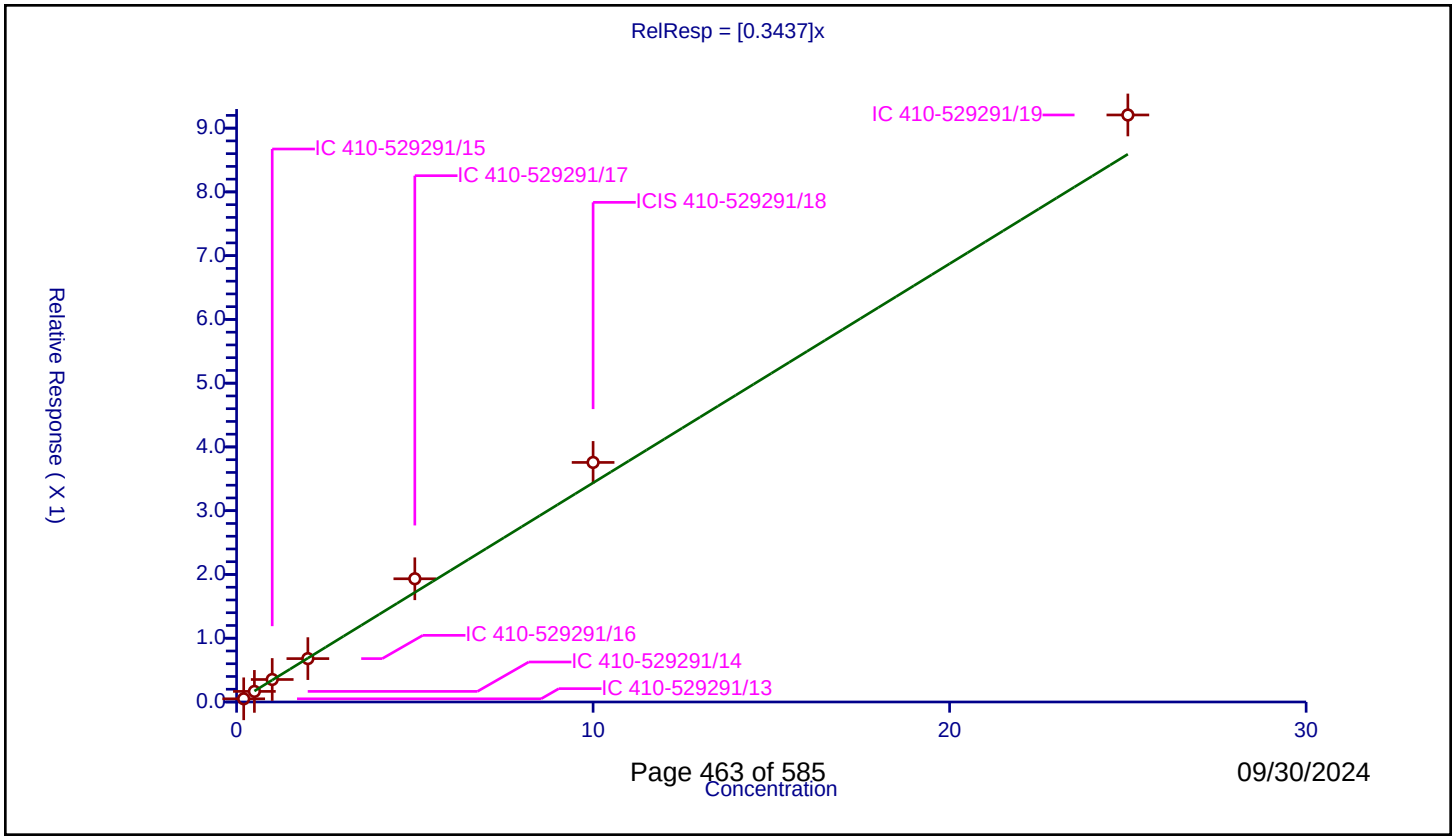
Curve Coefficients

Intercept:	0
Slope:	0.3437

Error Coefficients

Relative Standard Deviation:	13.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.050027	10.0	2065681.0	0.250135	Y
2	IC 410-529291/14	0.5	0.166099	10.0	2062328.0	0.332197	Y
3	IC 410-529291/15	1.0	0.352621	10.0	2092414.0	0.352621	Y
4	IC 410-529291/16	2.0	0.680431	10.0	2082929.0	0.340216	Y
5	IC 410-529291/17	5.0	1.932502	10.0	2147537.0	0.3865	Y
6	ICIS 410-529291/18	10.0	3.757026	10.0	2179990.0	0.375703	Y
7	IC 410-529291/19	25.0	9.206523	10.0	2238426.0	0.368261	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

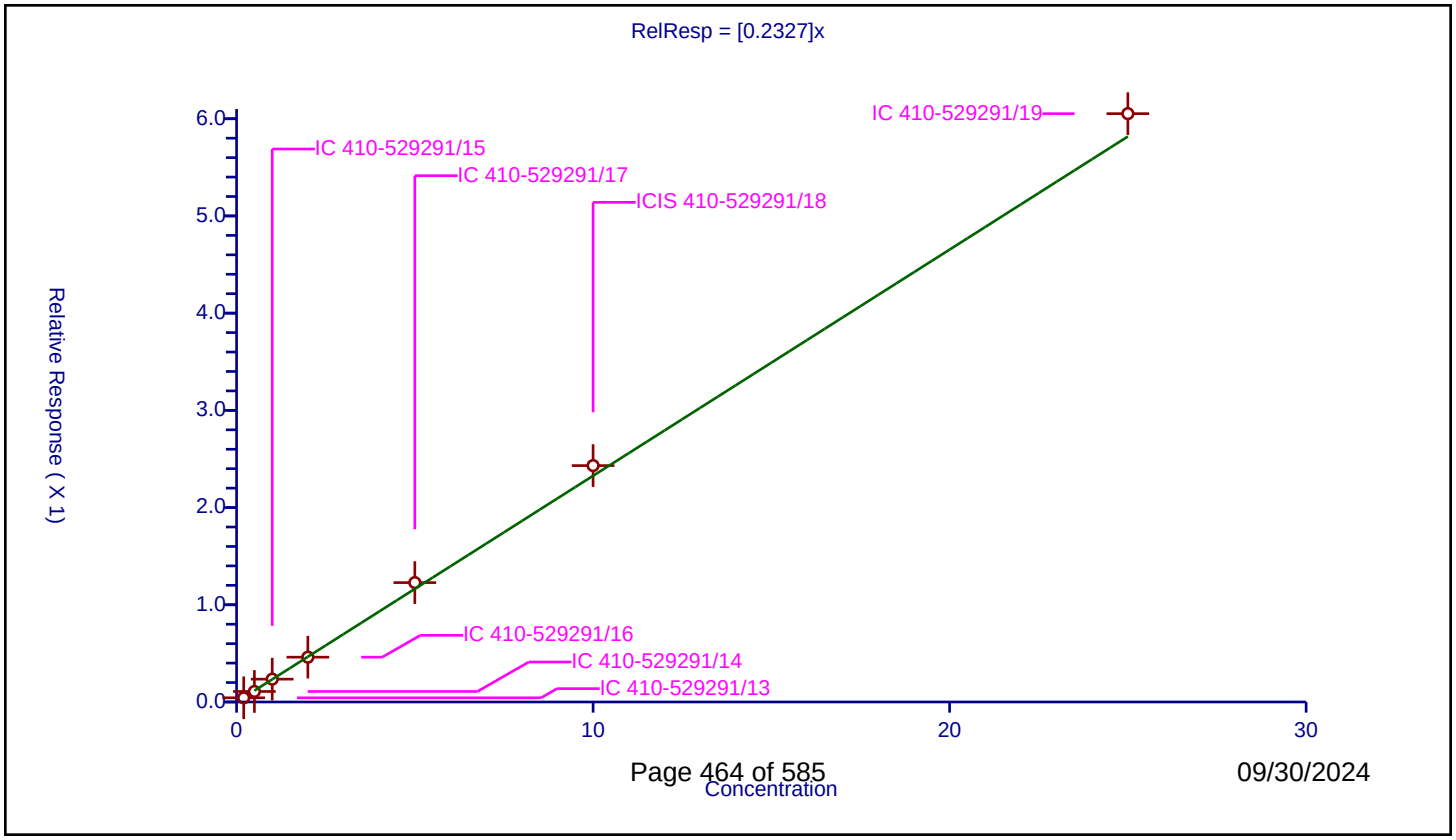
Curve Coefficients

Intercept:	0
Slope:	0.2327

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.043187	10.0	2065681.0	0.215934	Y
2	IC 410-529291/14	0.5	0.108285	10.0	2062328.0	0.216571	Y
3	IC 410-529291/15	1.0	0.235011	10.0	2092414.0	0.235011	Y
4	IC 410-529291/16	2.0	0.460913	10.0	2082929.0	0.230457	Y
5	IC 410-529291/17	5.0	1.228049	10.0	2147537.0	0.24561	Y
6	ICIS 410-529291/18	10.0	2.431663	10.0	2179990.0	0.243166	Y
7	IC 410-529291/19	25.0	6.052324	10.0	2238426.0	0.242093	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

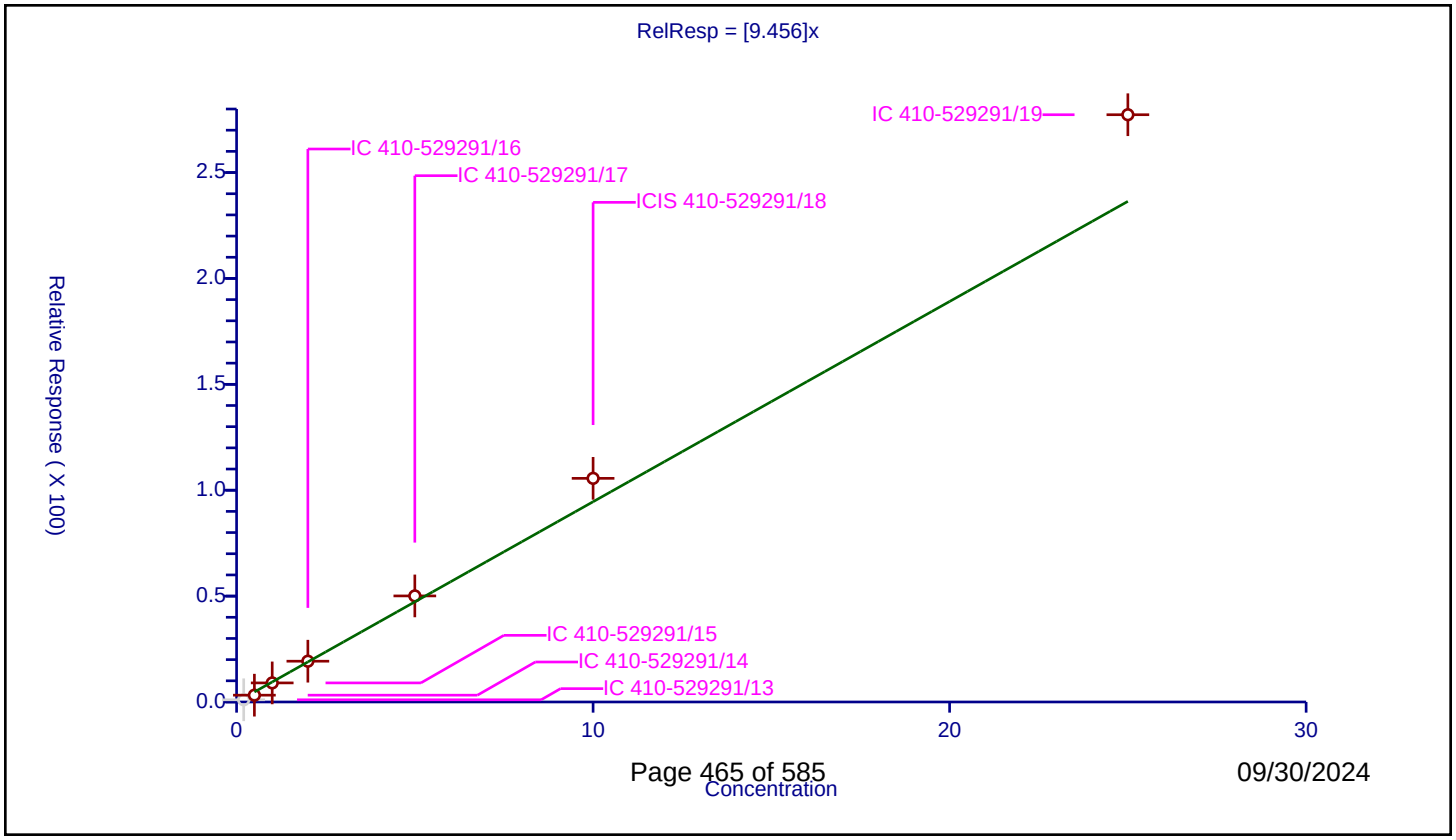
Curve Coefficients

Intercept:	0
Slope:	9.456

Error Coefficients

Relative Standard Deviation:	17.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	1.041614	50.0	98405.0	5.208069	N
2	IC 410-529291/14	0.5	3.213941	50.0	101542.0	6.427882	Y
3	IC 410-529291/15	1.0	9.008343	50.0	102122.0	9.008343	Y
4	IC 410-529291/16	2.0	19.259159	50.0	99711.0	9.629579	Y
5	IC 410-529291/17	5.0	50.081159	50.0	110278.0	10.016232	Y
6	ICIS 410-529291/18	10.0	105.603816	50.0	107980.0	10.560382	Y
7	IC 410-529291/19	25.0	277.304862	50.0	107501.0	11.092194	Y



Calibration / 1,4-Dioxane

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

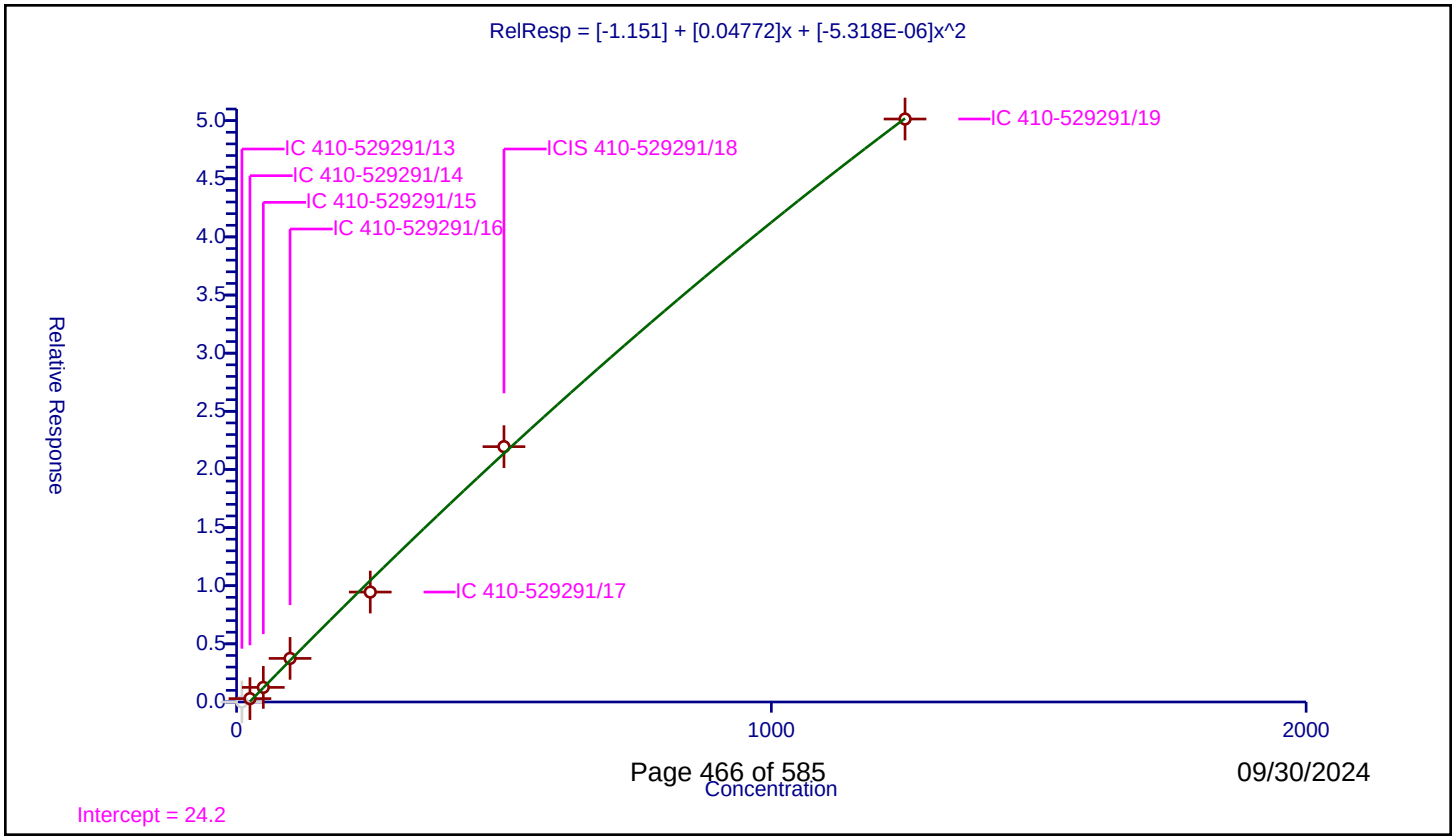
Curve Coefficients

Intercept:	-1.151
Slope:	0.04772
Second Order:	-5.318E-06

Error Coefficients

Relative Standard Deviation:	13.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	10.0	0.0	50.0	98405.0	0.0	N
2	IC 410-529291/14	25.0	0.290028	50.0	101542.0	0.011601	Y
3	IC 410-529291/15	50.0	1.255851	50.0	102122.0	0.025117	Y
4	IC 410-529291/16	100.0	3.749336	50.0	99711.0	0.037493	Y
5	IC 410-529291/17	250.0	9.454288	50.0	110278.0	0.037817	Y
6	ICIS 410-529291/18	500.0	21.961474	50.0	107980.0	0.043923	Y
7	IC 410-529291/19	1250.0	50.139999	50.0	107501.0	0.040112	Y



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Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

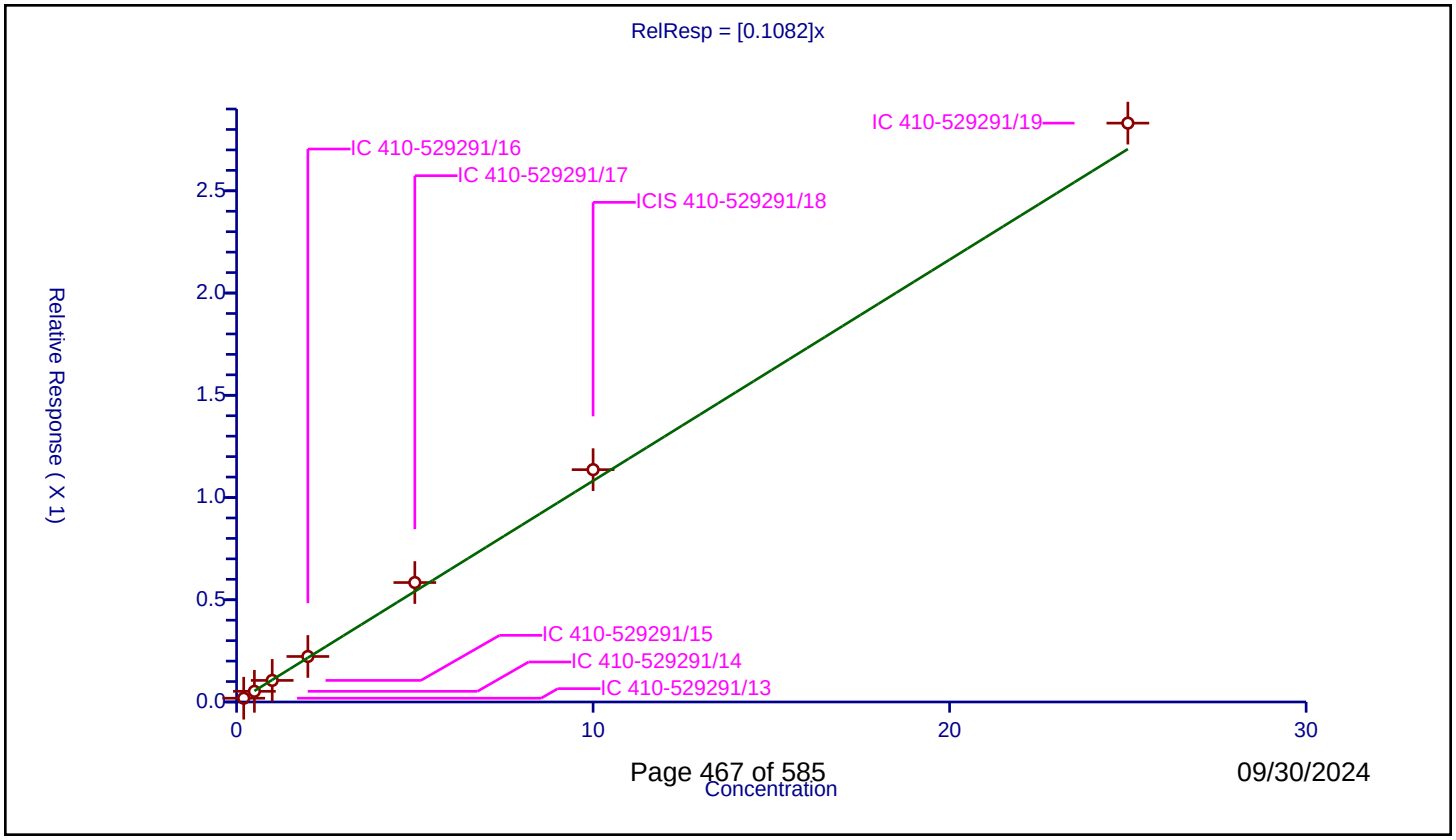
Curve Coefficients

Intercept:	0
Slope:	0.1082

Error Coefficients

Relative Standard Deviation:	7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.018425	10.0	2065681.0	0.092125	Y
2	IC 410-529291/14	0.5	0.052252	10.0	2062328.0	0.104503	Y
3	IC 410-529291/15	1.0	0.105558	10.0	2092414.0	0.105558	Y
4	IC 410-529291/16	2.0	0.222533	10.0	2082929.0	0.111266	Y
5	IC 410-529291/17	5.0	0.584144	10.0	2147537.0	0.116829	Y
6	ICIS 410-529291/18	10.0	1.136239	10.0	2179990.0	0.113624	Y
7	IC 410-529291/19	25.0	2.831047	10.0	2238426.0	0.113242	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

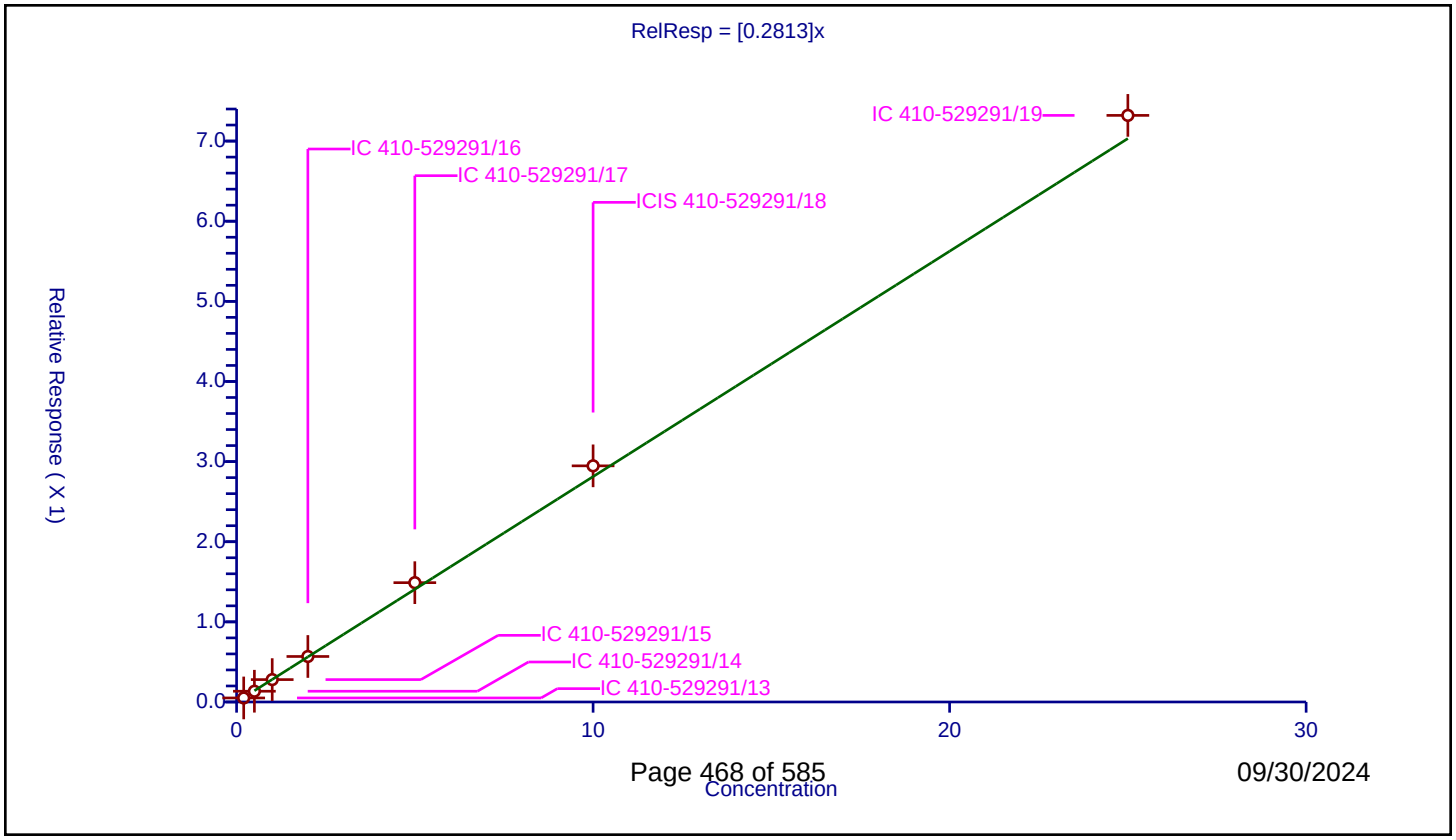
Curve Coefficients

Intercept:	0
Slope:	0.2813

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.050347	10.0	2065681.0	0.251733	Y
2	IC 410-529291/14	0.5	0.134256	10.0	2062328.0	0.268512	Y
3	IC 410-529291/15	1.0	0.279299	10.0	2092414.0	0.279299	Y
4	IC 410-529291/16	2.0	0.567945	10.0	2082929.0	0.283973	Y
5	IC 410-529291/17	5.0	1.489092	10.0	2147537.0	0.297818	Y
6	ICIS 410-529291/18	10.0	2.946839	10.0	2179990.0	0.294684	Y
7	IC 410-529291/19	25.0	7.320305	10.0	2238426.0	0.292812	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

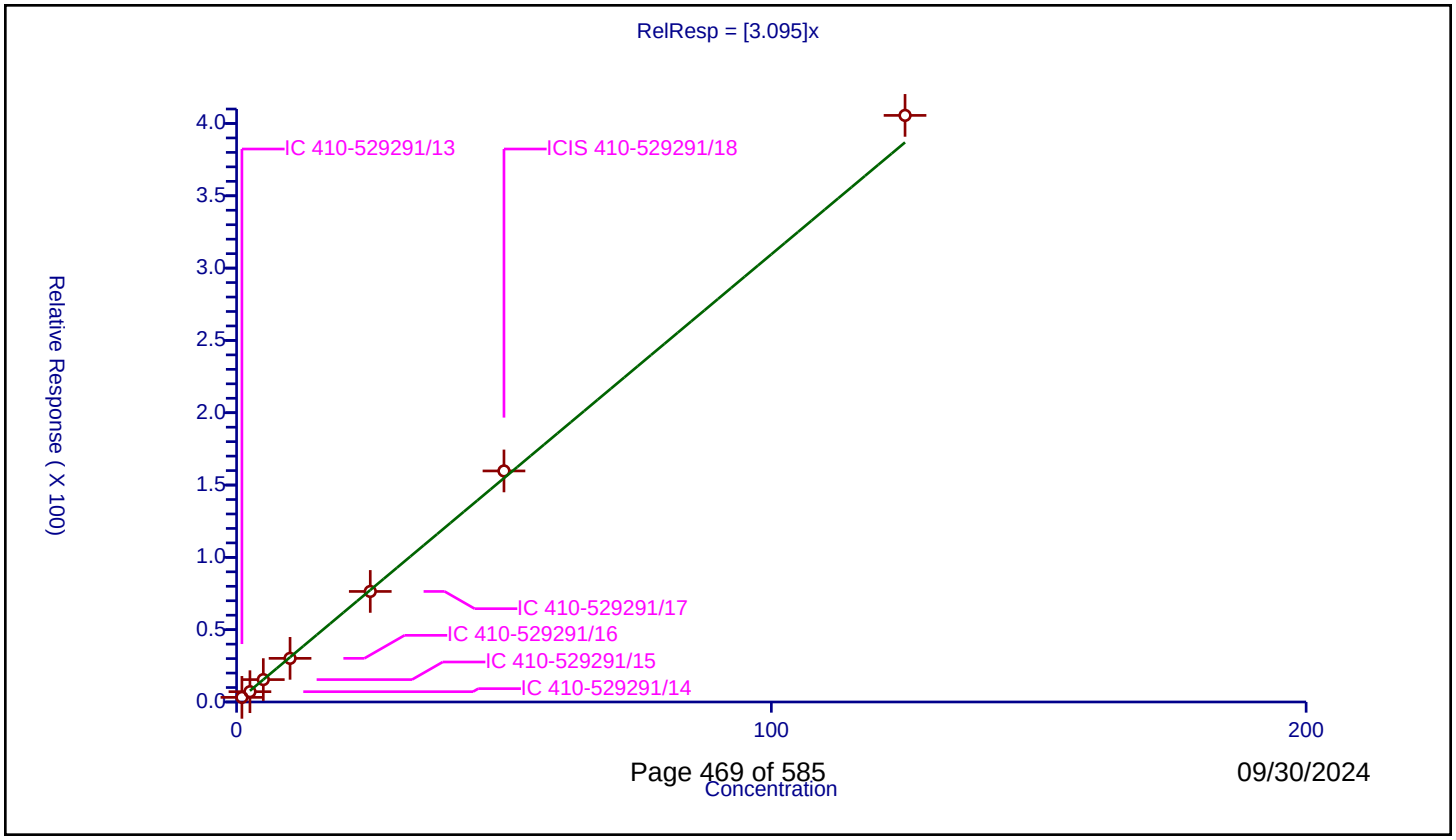
Curve Coefficients

Intercept:	0
Slope:	3.095

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	1.0	3.20563	50.0	98405.0	3.20563	Y
2	IC 410-529291/14	2.5	7.133009	50.0	101542.0	2.853204	Y
3	IC 410-529291/15	5.0	15.475608	50.0	102122.0	3.095122	Y
4	IC 410-529291/16	10.0	30.174203	50.0	99711.0	3.01742	Y
5	IC 410-529291/17	25.0	76.428662	50.0	110278.0	3.057146	Y
6	ICIS 410-529291/18	50.0	159.752732	50.0	107980.0	3.195055	Y
7	IC 410-529291/19	125.0	405.601343	50.0	107501.0	3.244811	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

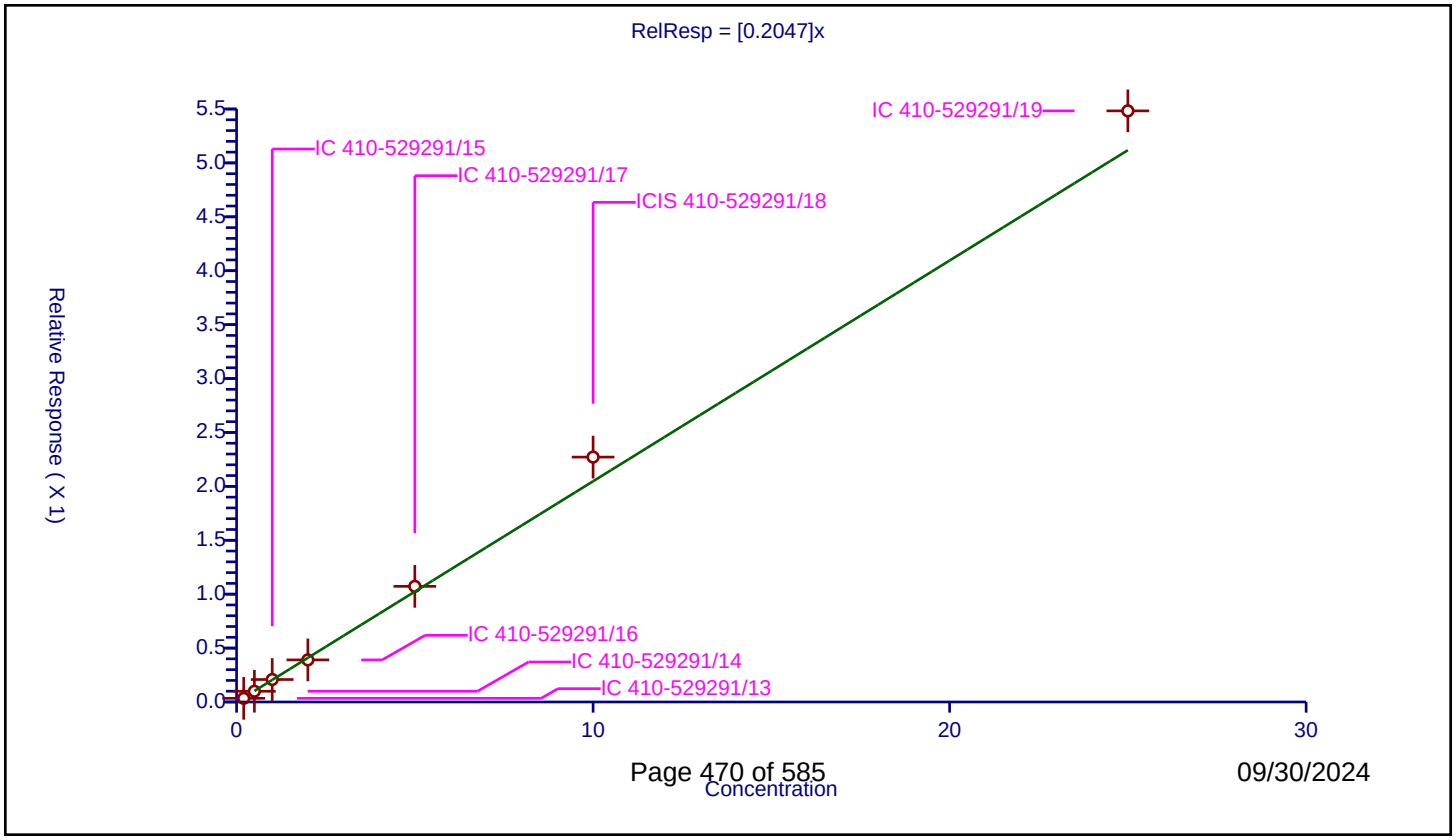
Curve Coefficients

Intercept:	0
Slope:	0.2047

Error Coefficients

Relative Standard Deviation:	9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.033887	10.0	2065681.0	0.169436	Y
2	IC 410-529291/14	0.5	0.099567	10.0	2062328.0	0.199134	Y
3	IC 410-529291/15	1.0	0.208319	10.0	2092414.0	0.208319	Y
4	IC 410-529291/16	2.0	0.390455	10.0	2082929.0	0.195227	Y
5	IC 410-529291/17	5.0	1.072573	10.0	2147537.0	0.214515	Y
6	ICIS 410-529291/18	10.0	2.271547	10.0	2179990.0	0.227155	Y
7	IC 410-529291/19	25.0	5.482777	10.0	2238426.0	0.219311	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

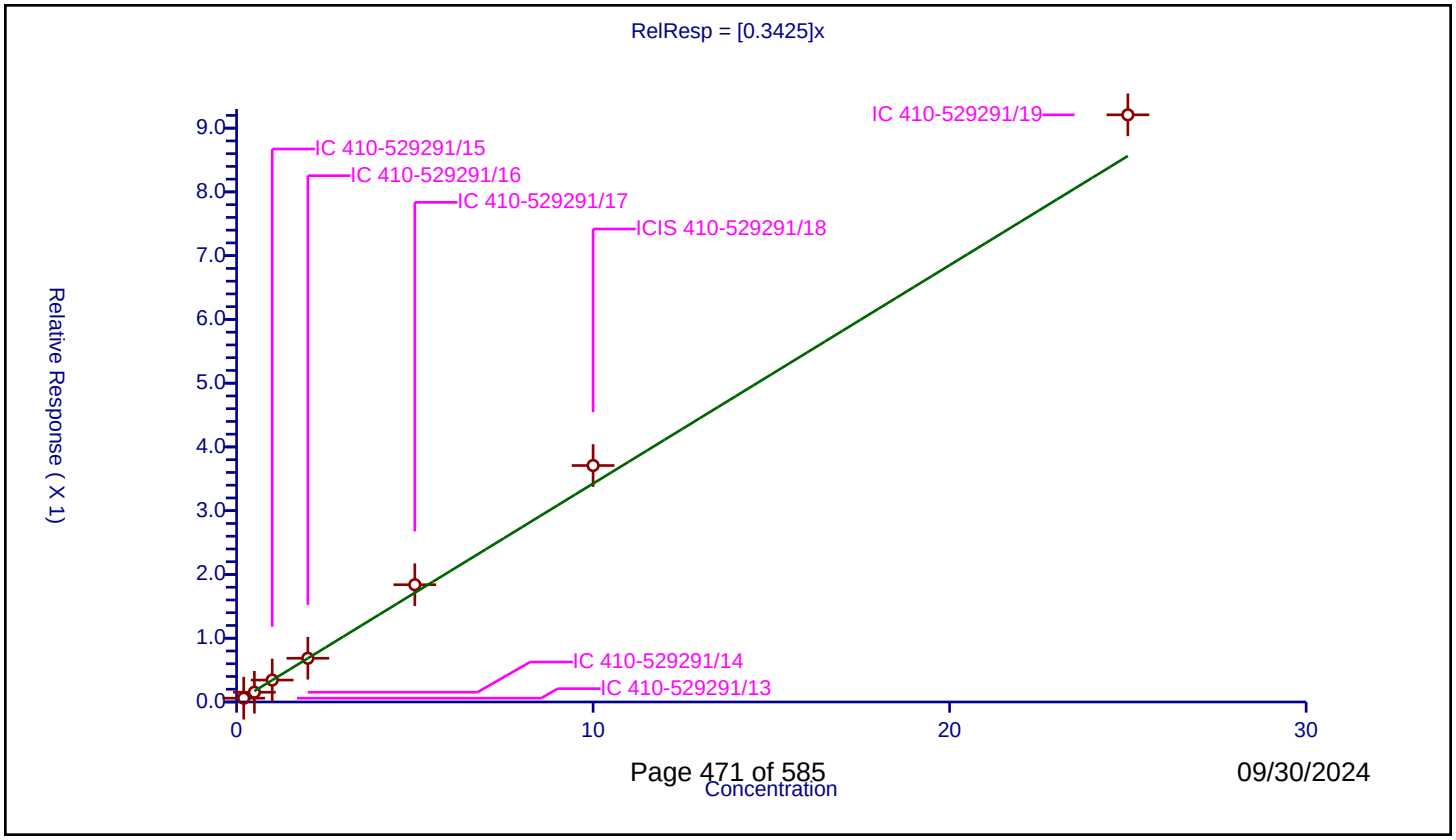
Curve Coefficients

Intercept:	0
Slope:	0.3425

Error Coefficients

Relative Standard Deviation:	8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.059554	10.0	2065681.0	0.297771	Y
2	IC 410-529291/14	0.5	0.153036	10.0	2062328.0	0.306072	Y
3	IC 410-529291/15	1.0	0.343804	10.0	2092414.0	0.343804	Y
4	IC 410-529291/16	2.0	0.686024	10.0	2082929.0	0.343012	Y
5	IC 410-529291/17	5.0	1.839377	10.0	2147537.0	0.367875	Y
6	ICIS 410-529291/18	10.0	3.708746	10.0	2179990.0	0.370875	Y
7	IC 410-529291/19	25.0	9.208783	10.0	2238426.0	0.368351	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

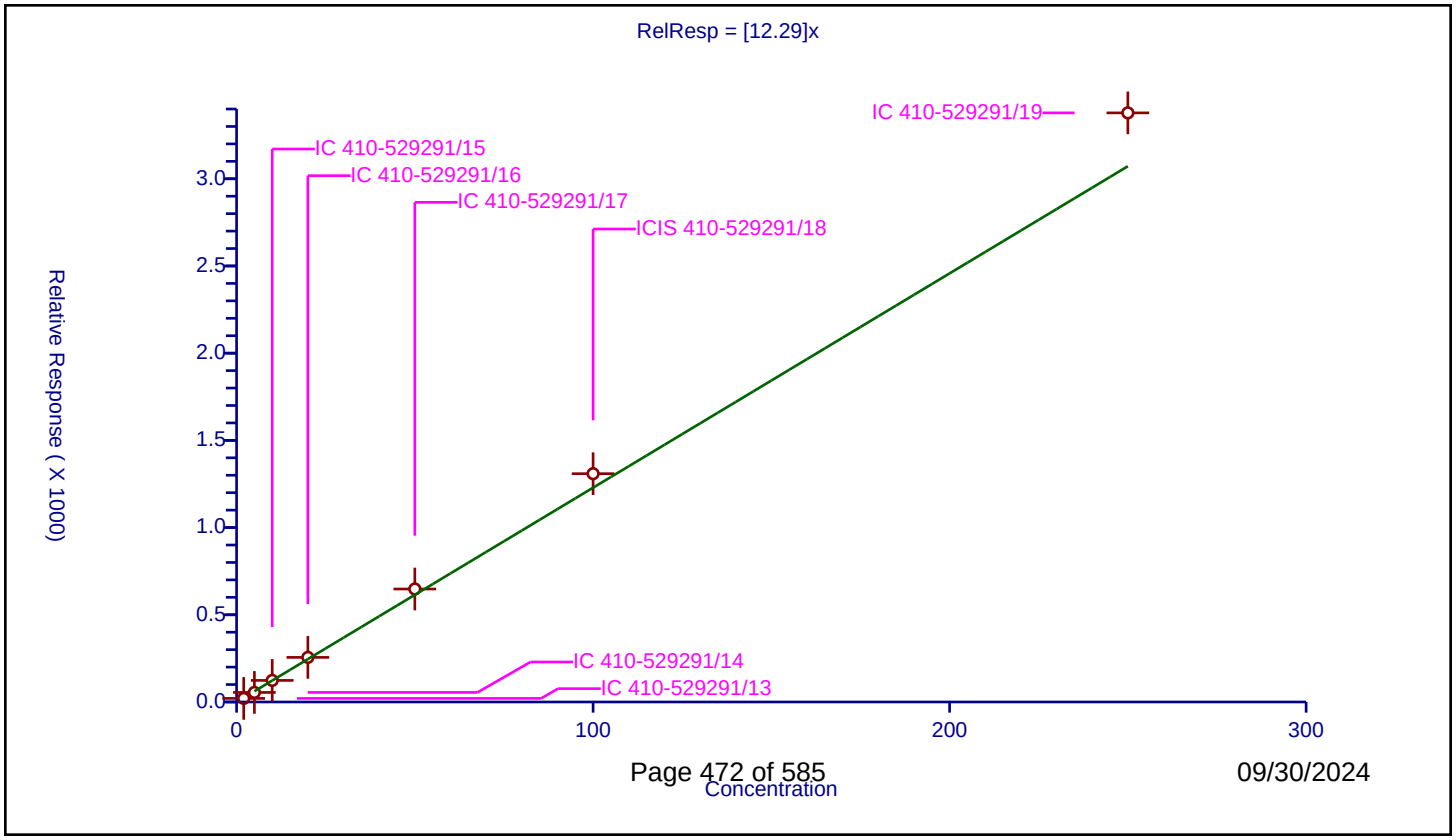
Curve Coefficients

Intercept:	0
Slope:	12.29

Error Coefficients

Relative Standard Deviation:	9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	2.0	20.619379	50.0	98405.0	10.30969	Y
2	IC 410-529291/14	5.0	54.873353	50.0	101542.0	10.974671	Y
3	IC 410-529291/15	10.0	123.81857	50.0	102122.0	12.381857	Y
4	IC 410-529291/16	20.0	255.781709	50.0	99711.0	12.789085	Y
5	IC 410-529291/17	50.0	647.742523	50.0	110278.0	12.95485	Y
6	ICIS 410-529291/18	100.0	1309.081774	50.0	107980.0	13.090818	Y
7	IC 410-529291/19	250.0	3377.789509	50.0	107501.0	13.511158	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

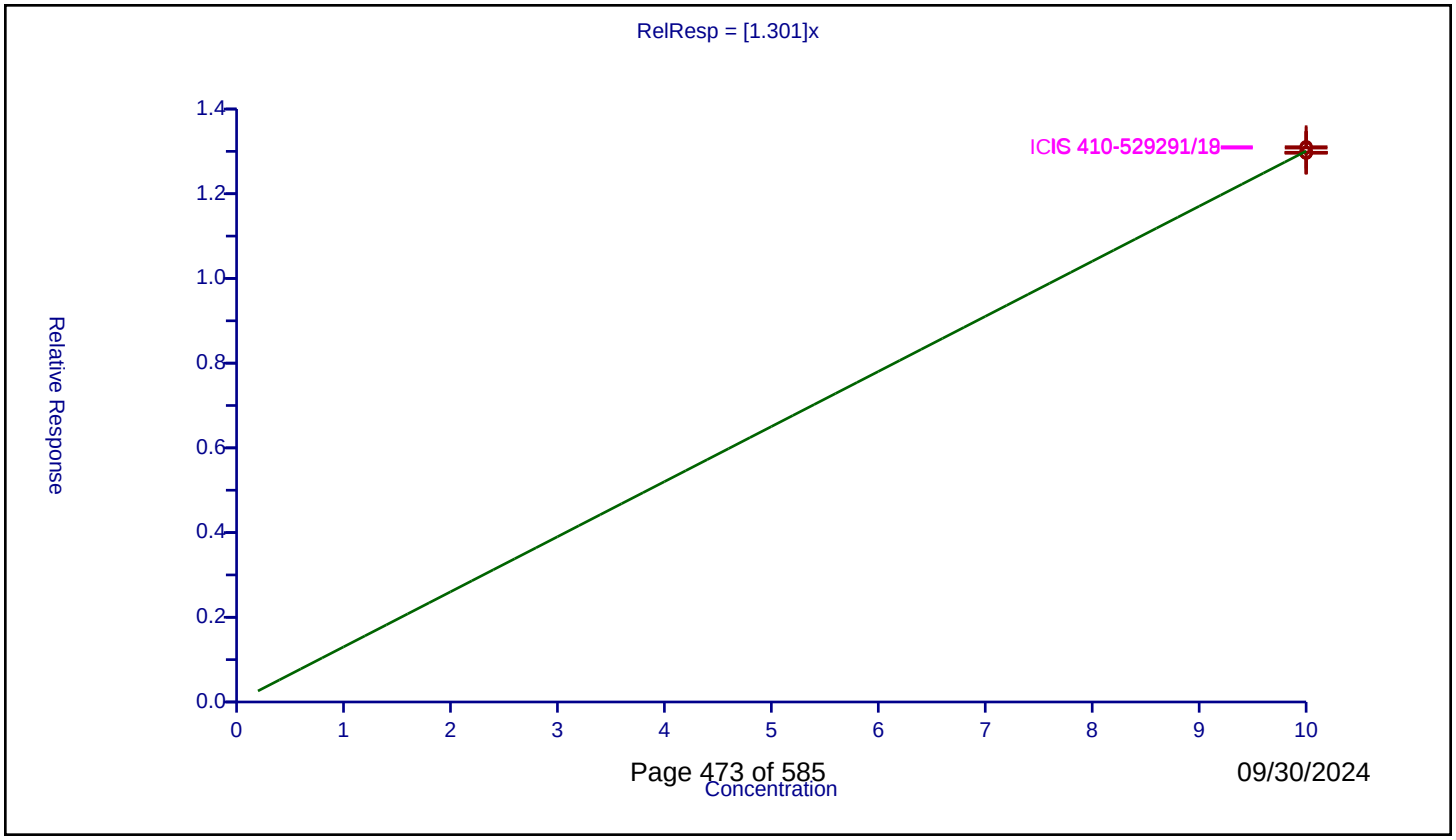
Curve Coefficients

Intercept:	0
Slope:	1.301

Error Coefficients

Relative Standard Deviation:	0.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	10.0	12.97856	10.0	1550719.0	1.297856	Y
2	IC 410-529291/14	10.0	12.956623	10.0	1551422.0	1.295662	Y
3	IC 410-529291/15	10.0	12.973209	10.0	1571302.0	1.297321	Y
4	IC 410-529291/16	10.0	12.975017	10.0	1575332.0	1.297502	Y
5	IC 410-529291/17	10.0	12.965155	10.0	1621905.0	1.296516	Y
6	ICIS 410-529291/18	10.0	13.076766	10.0	1632214.0	1.307677	Y
7	IC 410-529291/19	10.0	13.11066	10.0	1683257.0	1.311066	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

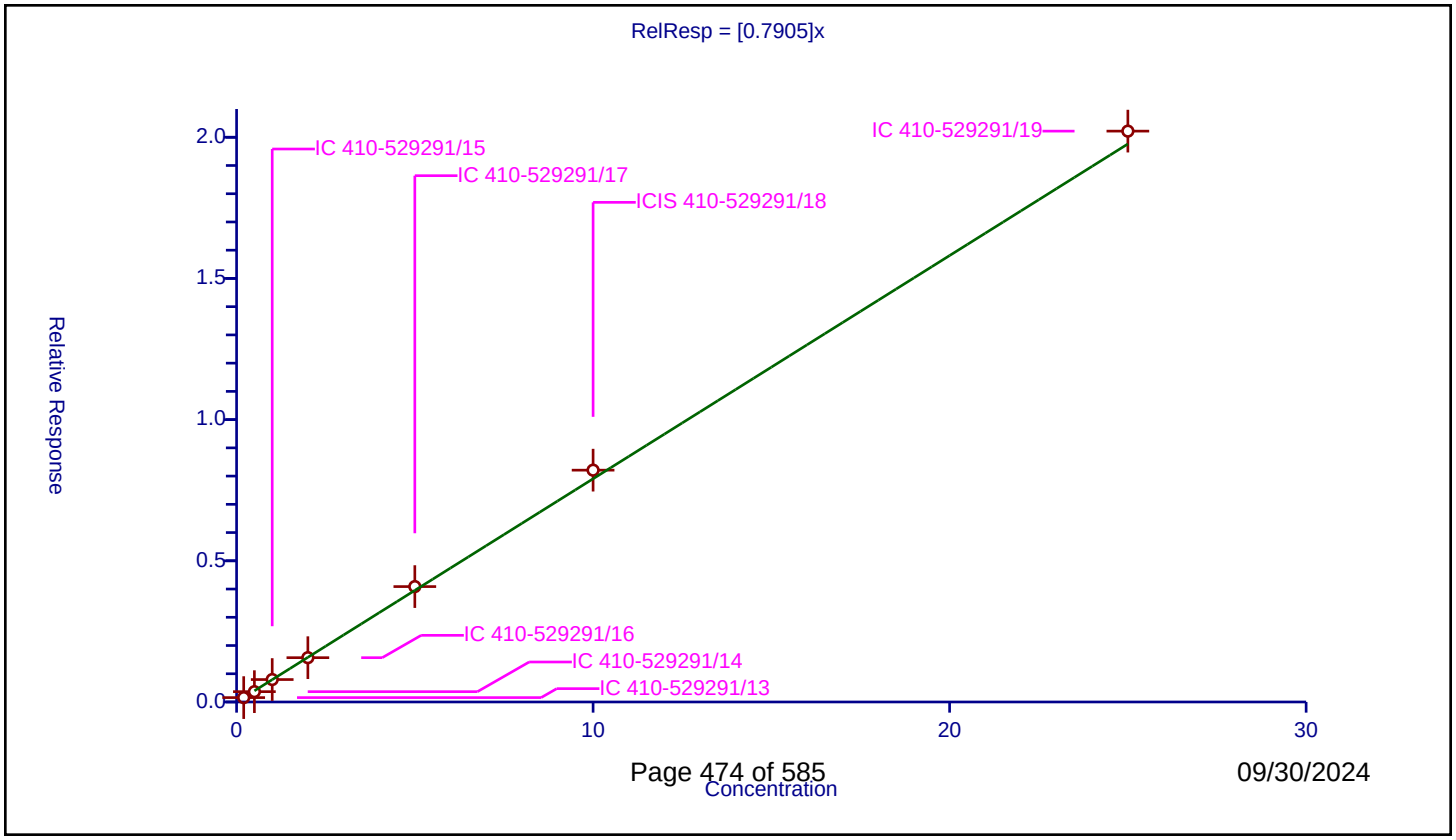
Curve Coefficients

Intercept:	0
Slope:	0.7905

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.155038	10.0	1550719.0	0.775189	Y
2	IC 410-529291/14	0.5	0.365916	10.0	1551422.0	0.731832	Y
3	IC 410-529291/15	1.0	0.794729	10.0	1571302.0	0.794729	Y
4	IC 410-529291/16	2.0	1.569555	10.0	1575332.0	0.784777	Y
5	IC 410-529291/17	5.0	4.086485	10.0	1621905.0	0.817297	Y
6	ICIS 410-529291/18	10.0	8.210406	10.0	1632214.0	0.821041	Y
7	IC 410-529291/19	25.0	20.216675	10.0	1683257.0	0.808667	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

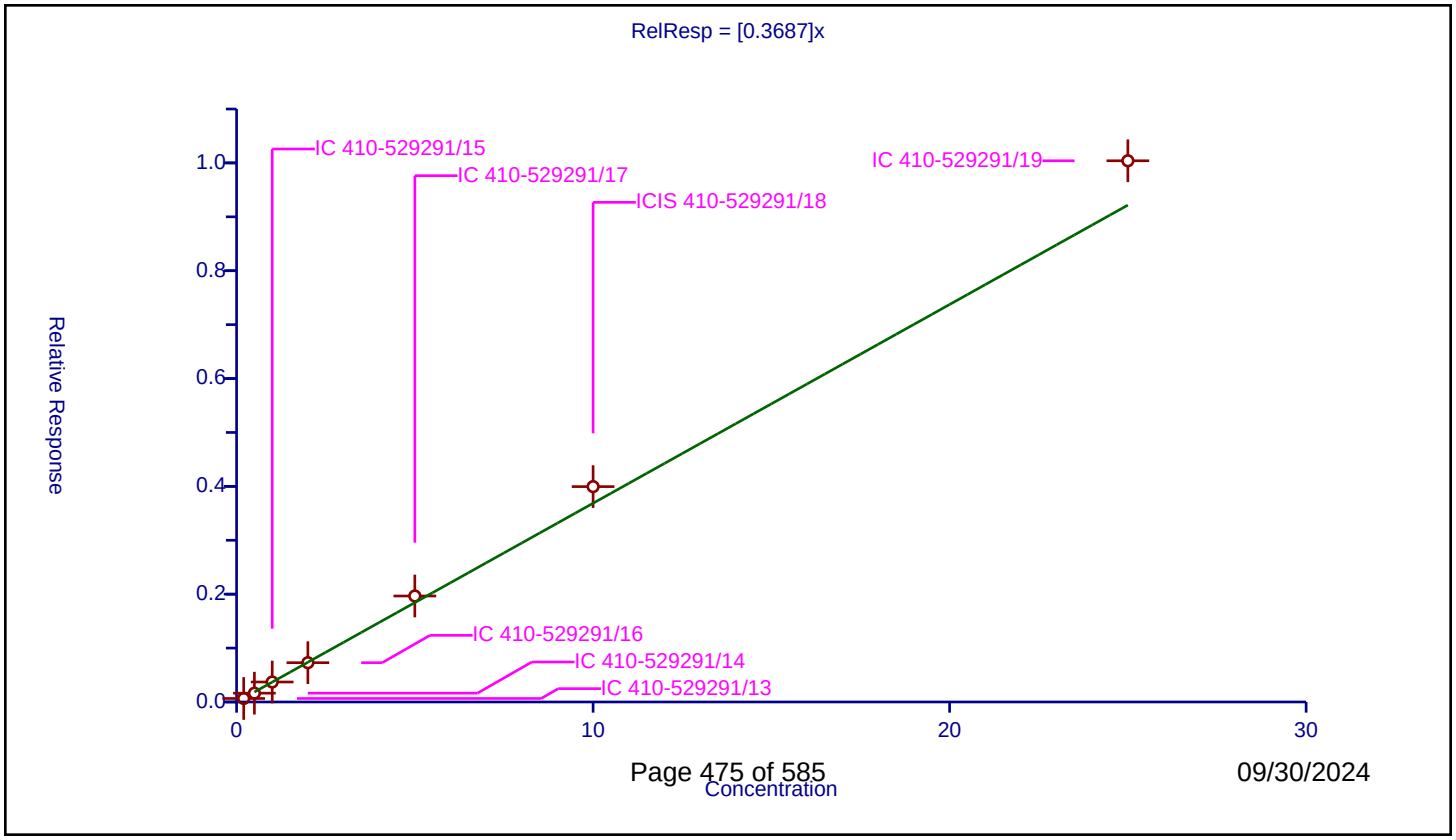
Curve Coefficients

Intercept:	0
Slope:	0.3687

Error Coefficients

Relative Standard Deviation:	8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.064918	10.0	1550719.0	0.324591	Y
2	IC 410-529291/14	0.5	0.163353	10.0	1551422.0	0.326707	Y
3	IC 410-529291/15	1.0	0.370858	10.0	1571302.0	0.370858	Y
4	IC 410-529291/16	2.0	0.728792	10.0	1575332.0	0.364396	Y
5	IC 410-529291/17	5.0	1.96588	10.0	1621905.0	0.393176	Y
6	ICIS 410-529291/18	10.0	3.995156	10.0	1632214.0	0.399516	Y
7	IC 410-529291/19	25.0	10.039958	10.0	1683257.0	0.401598	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

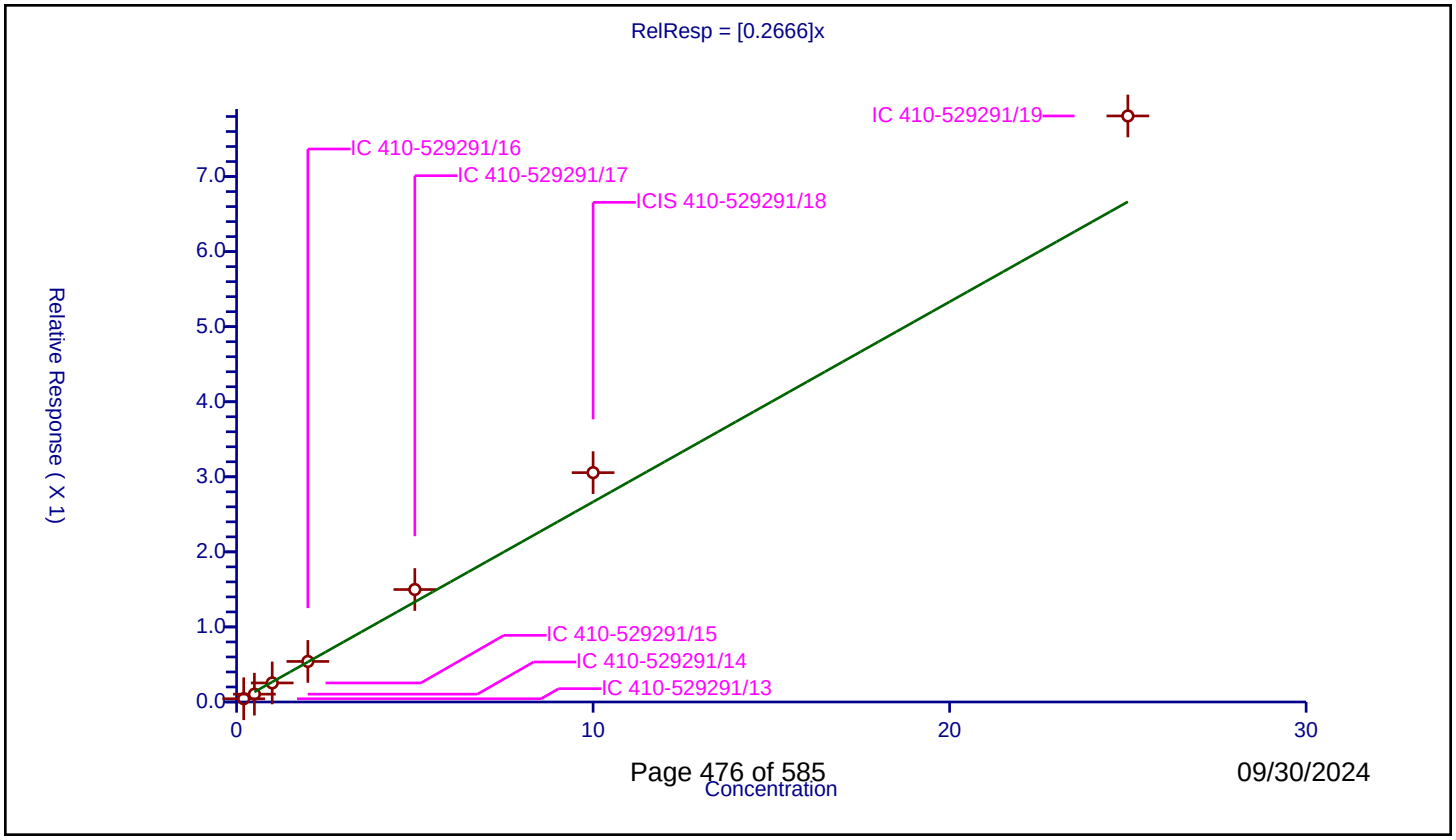
Curve Coefficients

Intercept:	0
Slope:	0.2666

Error Coefficients

Relative Standard Deviation:	15.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.043264	10.0	1550719.0	0.216319	Y
2	IC 410-529291/14	0.5	0.104143	10.0	1551422.0	0.208286	Y
3	IC 410-529291/15	1.0	0.253879	10.0	1571302.0	0.253879	Y
4	IC 410-529291/16	2.0	0.54014	10.0	1575332.0	0.27007	Y
5	IC 410-529291/17	5.0	1.498386	10.0	1621905.0	0.299677	Y
6	ICIS 410-529291/18	10.0	3.055567	10.0	1632214.0	0.305557	Y
7	IC 410-529291/19	25.0	7.807489	10.0	1683257.0	0.3123	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

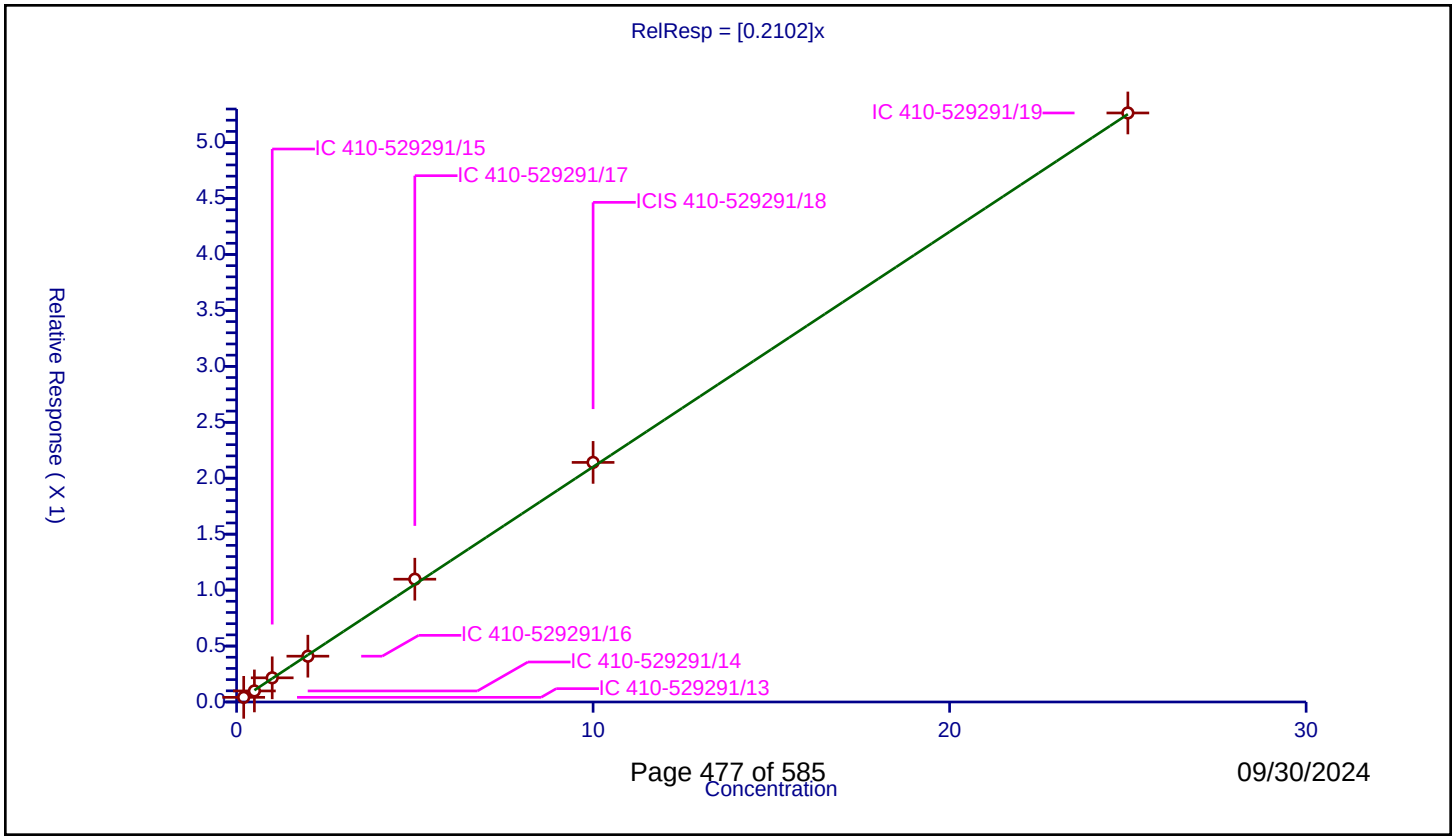
Curve Coefficients

Intercept:	0
Slope:	0.2102

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.041697	10.0	1550719.0	0.208484	Y
2	IC 410-529291/14	0.5	0.098825	10.0	1551422.0	0.197651	Y
3	IC 410-529291/15	1.0	0.216076	10.0	1571302.0	0.216076	Y
4	IC 410-529291/16	2.0	0.409323	10.0	1575332.0	0.204662	Y
5	IC 410-529291/17	5.0	1.097376	10.0	1621905.0	0.219475	Y
6	ICIS 410-529291/18	10.0	2.141337	10.0	1632214.0	0.214134	Y
7	IC 410-529291/19	25.0	5.264722	10.0	1683257.0	0.210589	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

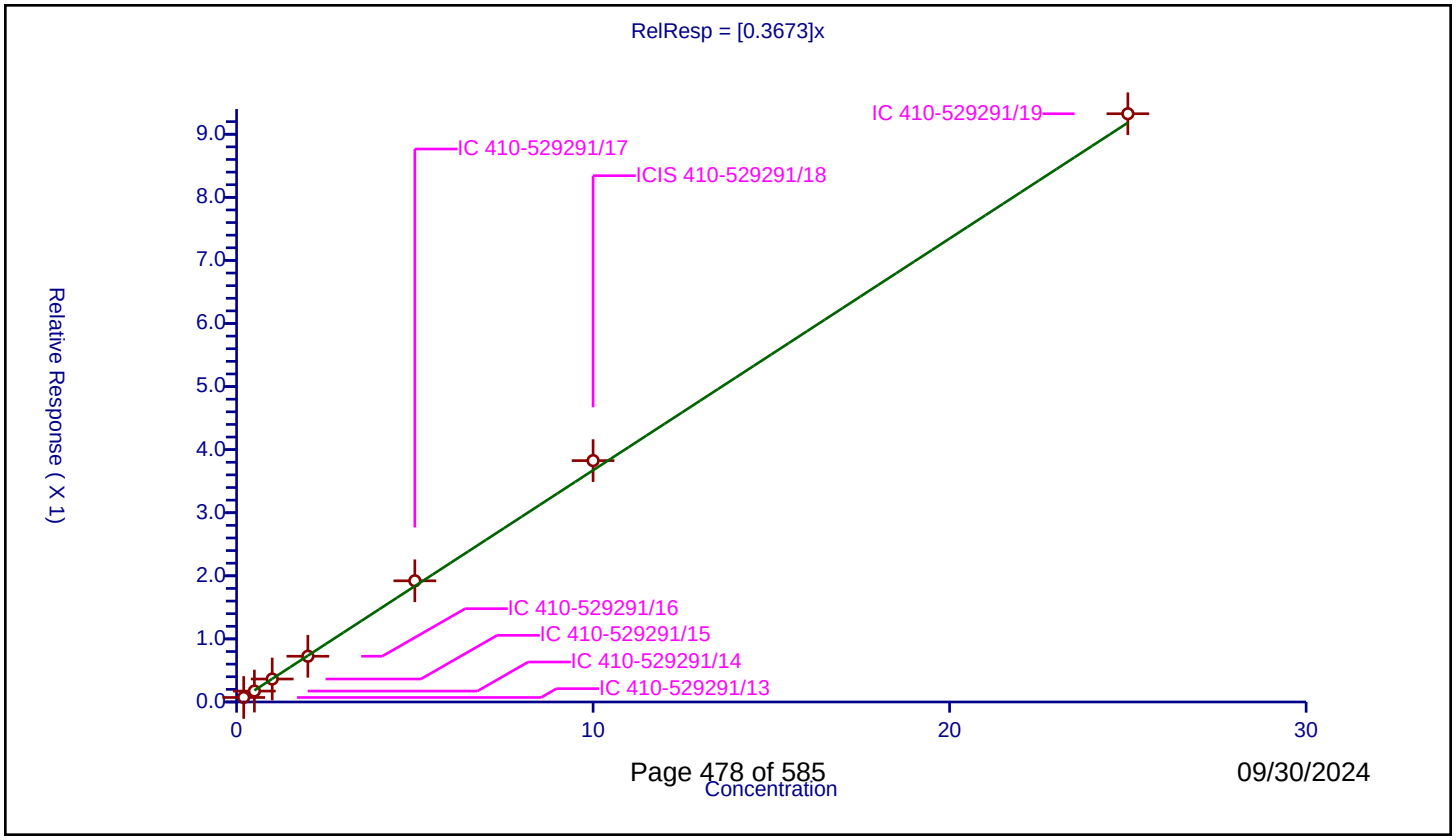
Curve Coefficients

Intercept:	0
Slope:	0.3673

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.071676	10.0	1550719.0	0.358382	Y
2	IC 410-529291/14	0.5	0.173273	10.0	1551422.0	0.346547	Y
3	IC 410-529291/15	1.0	0.363991	10.0	1571302.0	0.363991	Y
4	IC 410-529291/16	2.0	0.725111	10.0	1575332.0	0.362555	Y
5	IC 410-529291/17	5.0	1.921099	10.0	1621905.0	0.38422	Y
6	ICIS 410-529291/18	10.0	3.826269	10.0	1632214.0	0.382627	Y
7	IC 410-529291/19	25.0	9.325302	10.0	1683257.0	0.373012	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

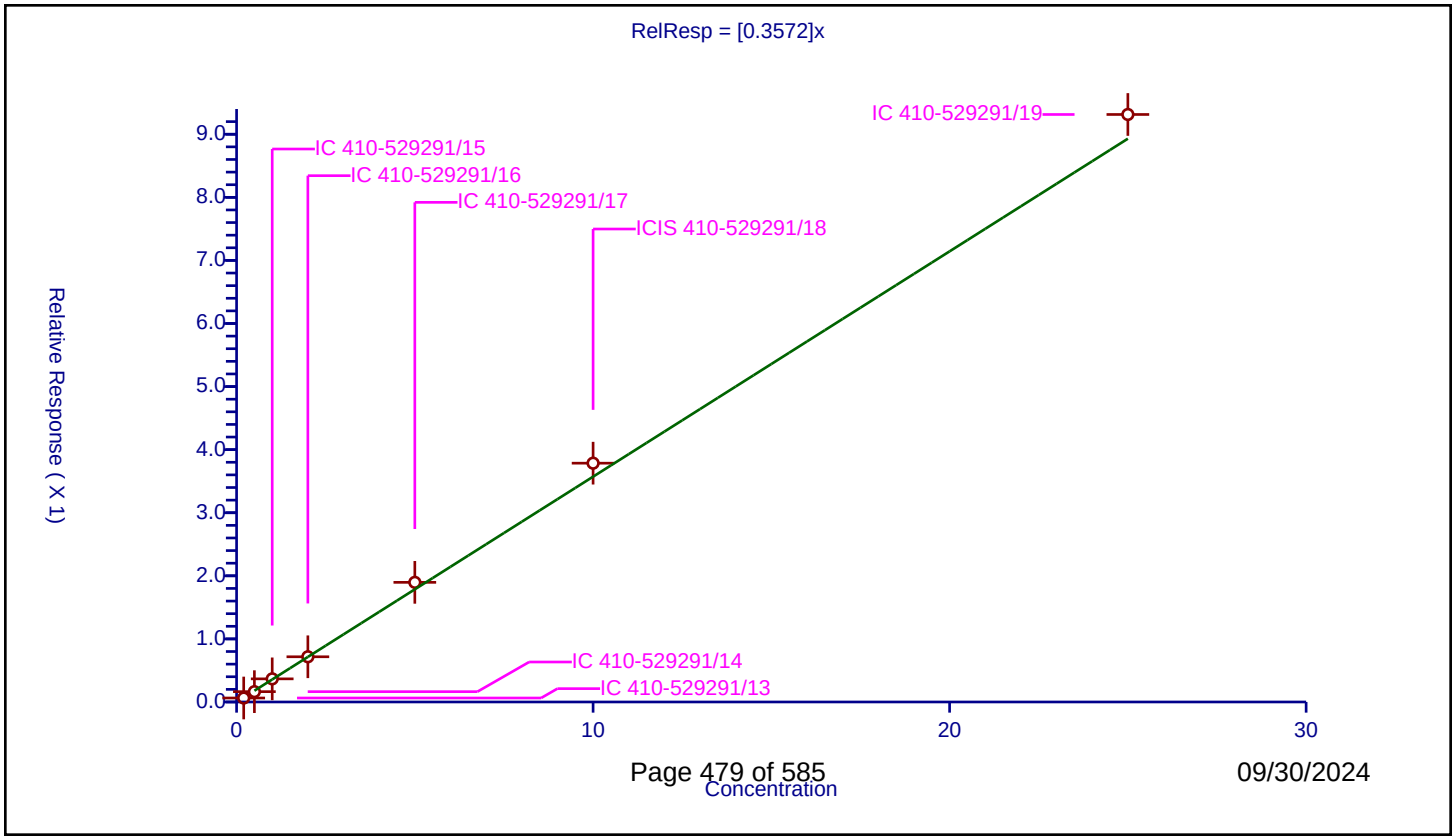
Curve Coefficients

Intercept:	0
Slope:	0.3572

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.063384	10.0	1550719.0	0.316918	Y
2	IC 410-529291/14	0.5	0.163959	10.0	1551422.0	0.327919	Y
3	IC 410-529291/15	1.0	0.366721	10.0	1571302.0	0.366721	Y
4	IC 410-529291/16	2.0	0.716547	10.0	1575332.0	0.358274	Y
5	IC 410-529291/17	5.0	1.896696	10.0	1621905.0	0.379339	Y
6	ICIS 410-529291/18	10.0	3.785558	10.0	1632214.0	0.378556	Y
7	IC 410-529291/19	25.0	9.313539	10.0	1683257.0	0.372542	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

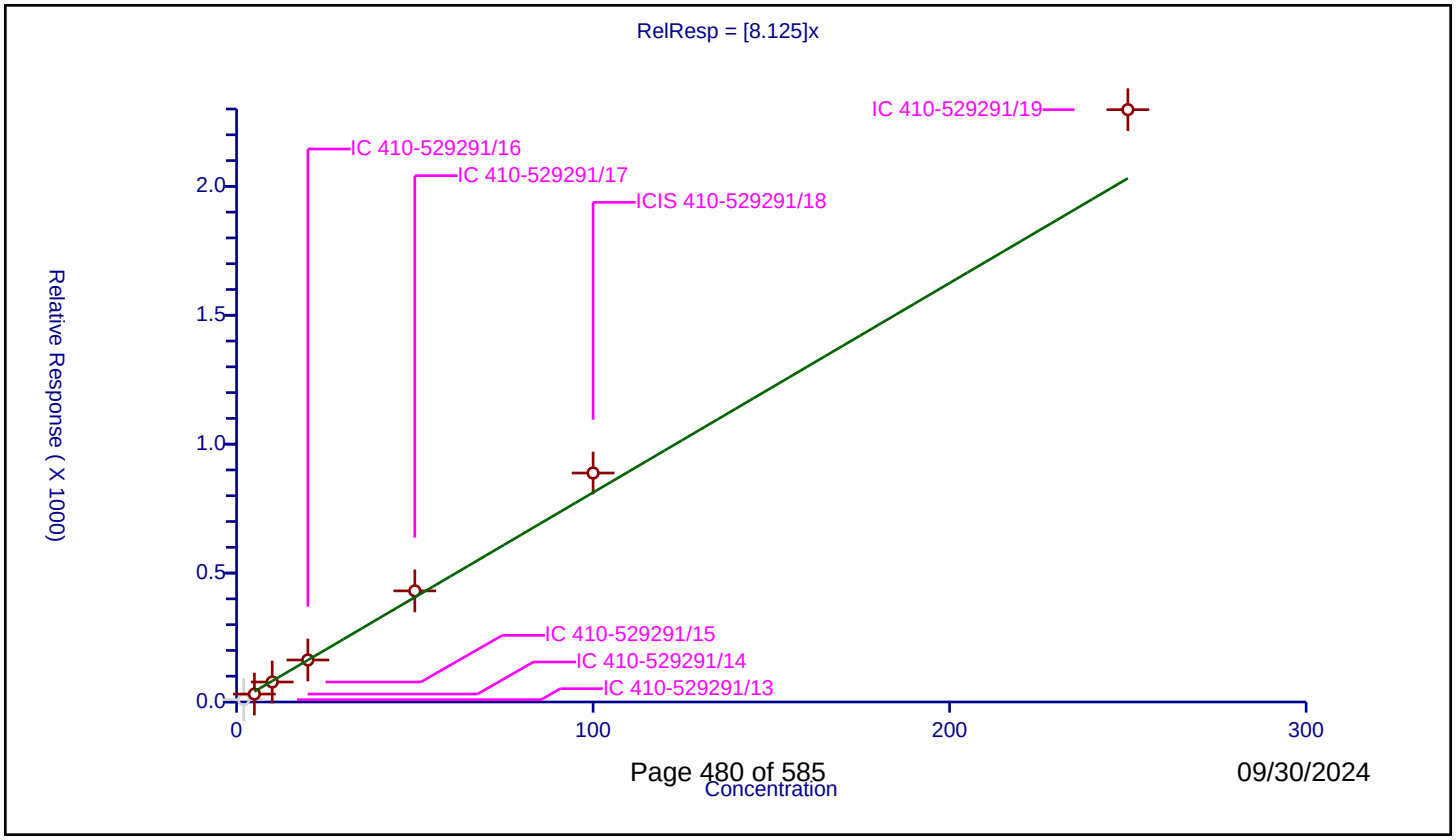
Curve Coefficients

Intercept:	0
Slope:	8.125

Error Coefficients

Relative Standard Deviation:	13.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	2.0	8.919262	50.0	98405.0	4.459631	N
2	IC 410-529291/14	5.0	30.797601	50.0	101542.0	6.15952	Y
3	IC 410-529291/15	10.0	77.503868	50.0	102122.0	7.750387	Y
4	IC 410-529291/16	20.0	162.966473	50.0	99711.0	8.148324	Y
5	IC 410-529291/17	50.0	430.963111	50.0	110278.0	8.619262	Y
6	ICIS 410-529291/18	100.0	888.175125	50.0	107980.0	8.881751	Y
7	IC 410-529291/19	250.0	2297.534907	50.0	107501.0	9.19014	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

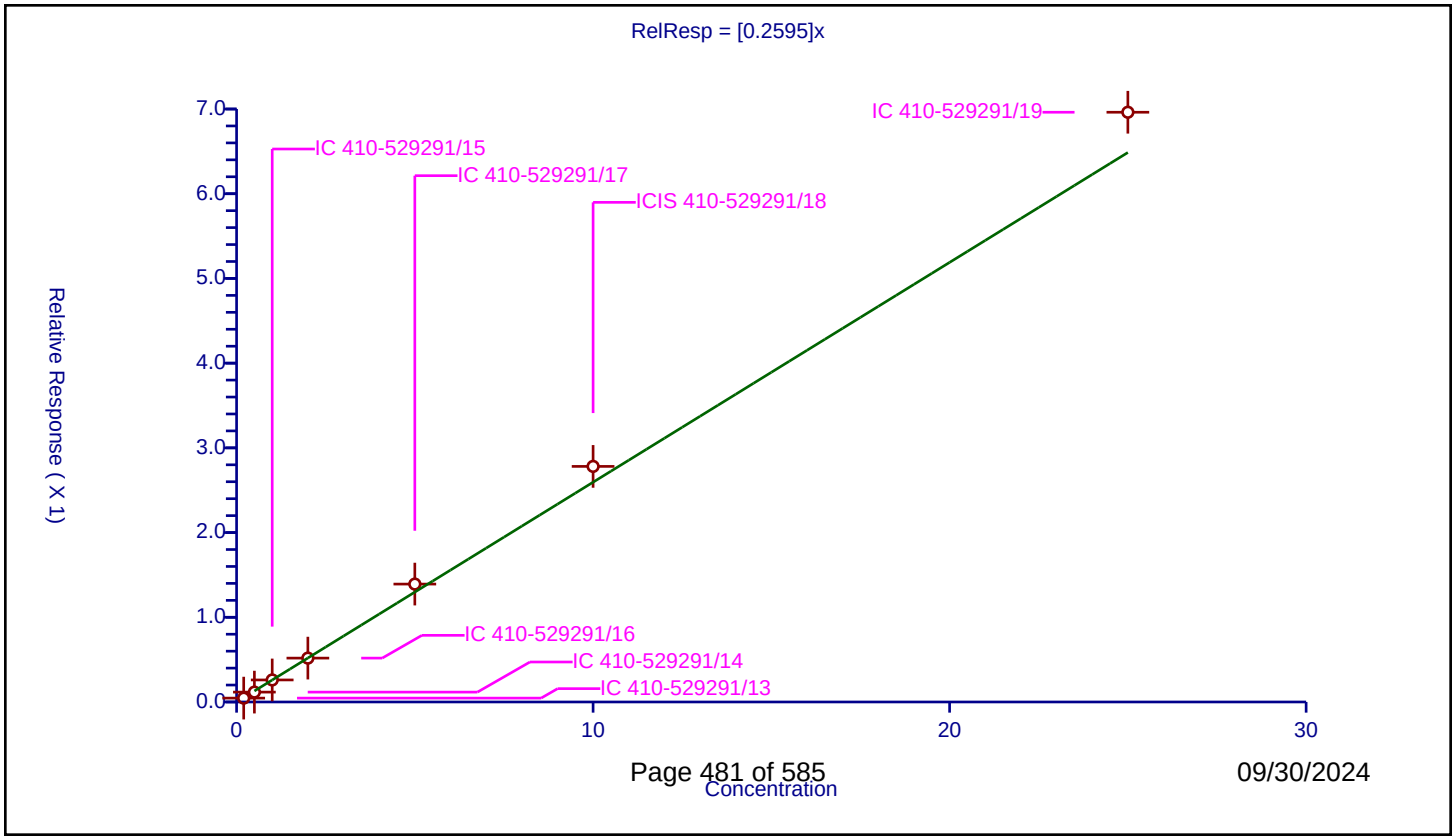
Curve Coefficients

Intercept:	0
Slope:	0.2595

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.045701	10.0	1550719.0	0.228507	Y
2	IC 410-529291/14	0.5	0.116783	10.0	1551422.0	0.233566	Y
3	IC 410-529291/15	1.0	0.260071	10.0	1571302.0	0.260071	Y
4	IC 410-529291/16	2.0	0.518145	10.0	1575332.0	0.259072	Y
5	IC 410-529291/17	5.0	1.392011	10.0	1621905.0	0.278402	Y
6	ICIS 410-529291/18	10.0	2.781124	10.0	1632214.0	0.278112	Y
7	IC 410-529291/19	25.0	6.962056	10.0	1683257.0	0.278482	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

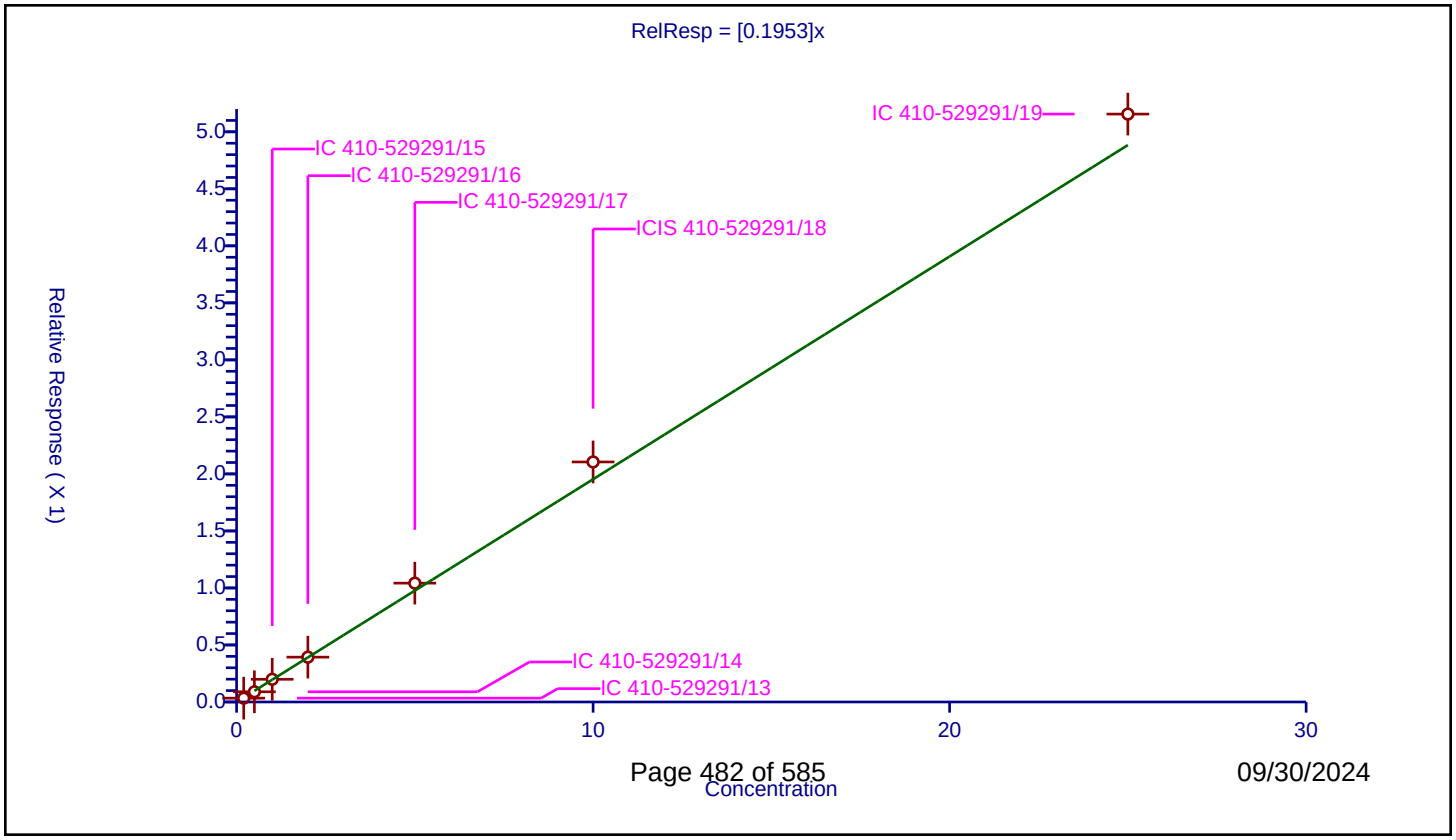
Curve Coefficients

Intercept:	0
Slope:	0.1953

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.033507	10.0	1550719.0	0.167535	Y
2	IC 410-529291/14	0.5	0.089473	10.0	1551422.0	0.178946	Y
3	IC 410-529291/15	1.0	0.199179	10.0	1571302.0	0.199179	Y
4	IC 410-529291/16	2.0	0.393193	10.0	1575332.0	0.196597	Y
5	IC 410-529291/17	5.0	1.042114	10.0	1621905.0	0.208423	Y
6	ICIS 410-529291/18	10.0	2.104902	10.0	1632214.0	0.21049	Y
7	IC 410-529291/19	25.0	5.155612	10.0	1683257.0	0.206224	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

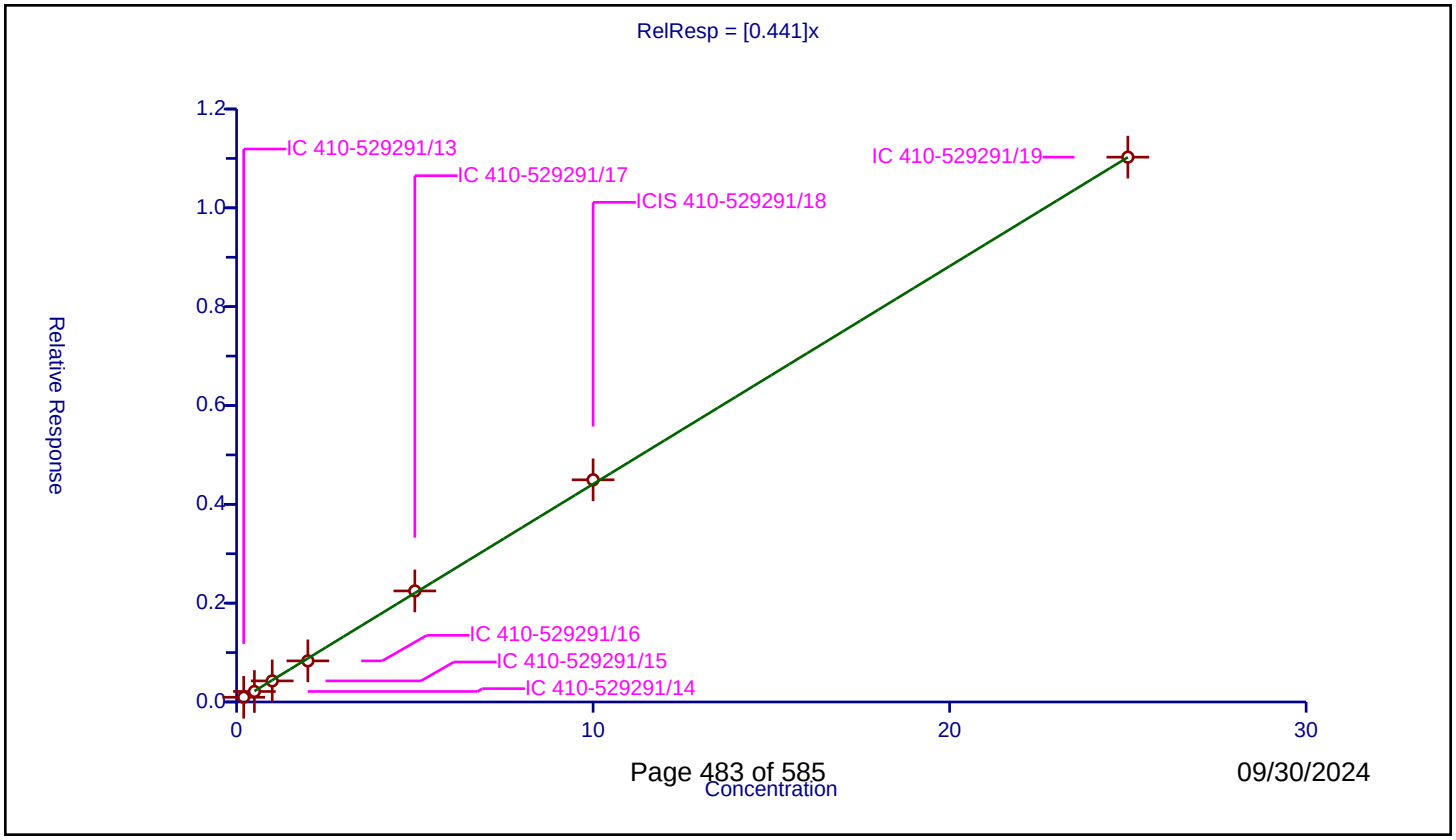
Curve Coefficients

Intercept:	0
Slope:	0.441

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.095672	10.0	1550719.0	0.478359	Y
2	IC 410-529291/14	0.5	0.212889	10.0	1551422.0	0.425777	Y
3	IC 410-529291/15	1.0	0.426449	10.0	1571302.0	0.426449	Y
4	IC 410-529291/16	2.0	0.832028	10.0	1575332.0	0.416014	Y
5	IC 410-529291/17	5.0	2.247493	10.0	1621905.0	0.449499	Y
6	ICIS 410-529291/18	10.0	4.49623	10.0	1632214.0	0.449623	Y
7	IC 410-529291/19	25.0	11.025821	10.0	1683257.0	0.441033	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

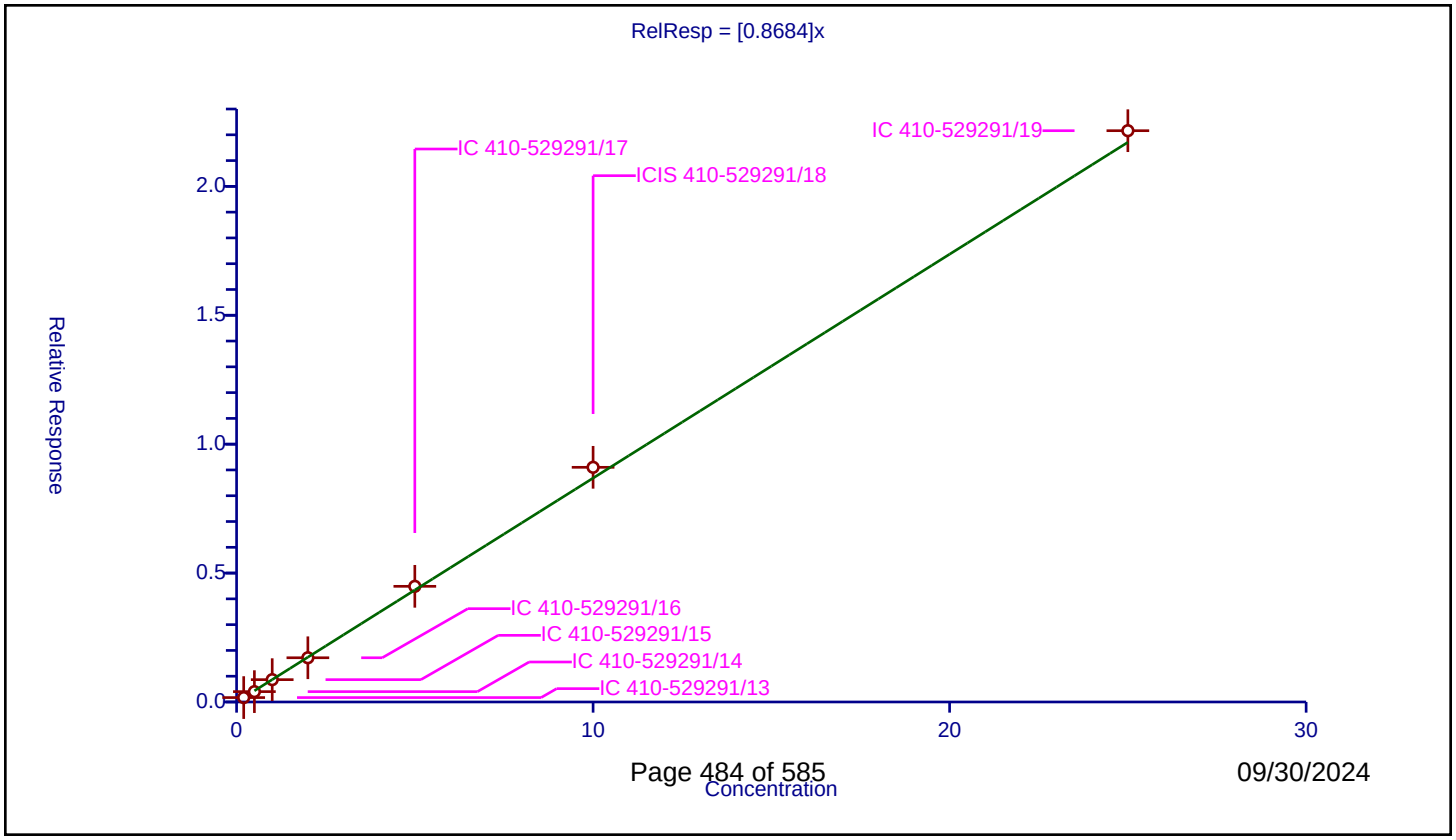
Curve Coefficients

Intercept:	0
Slope:	0.8684

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.171495	10.0	1550719.0	0.857473	Y
2	IC 410-529291/14	0.5	0.401516	10.0	1551422.0	0.803031	Y
3	IC 410-529291/15	1.0	0.866746	10.0	1571302.0	0.866746	Y
4	IC 410-529291/16	2.0	1.715067	10.0	1575332.0	0.857534	Y
5	IC 410-529291/17	5.0	4.486336	10.0	1621905.0	0.897267	Y
6	ICIS 410-529291/18	10.0	9.102403	10.0	1632214.0	0.91024	Y
7	IC 410-529291/19	25.0	22.159444	10.0	1683257.0	0.886378	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

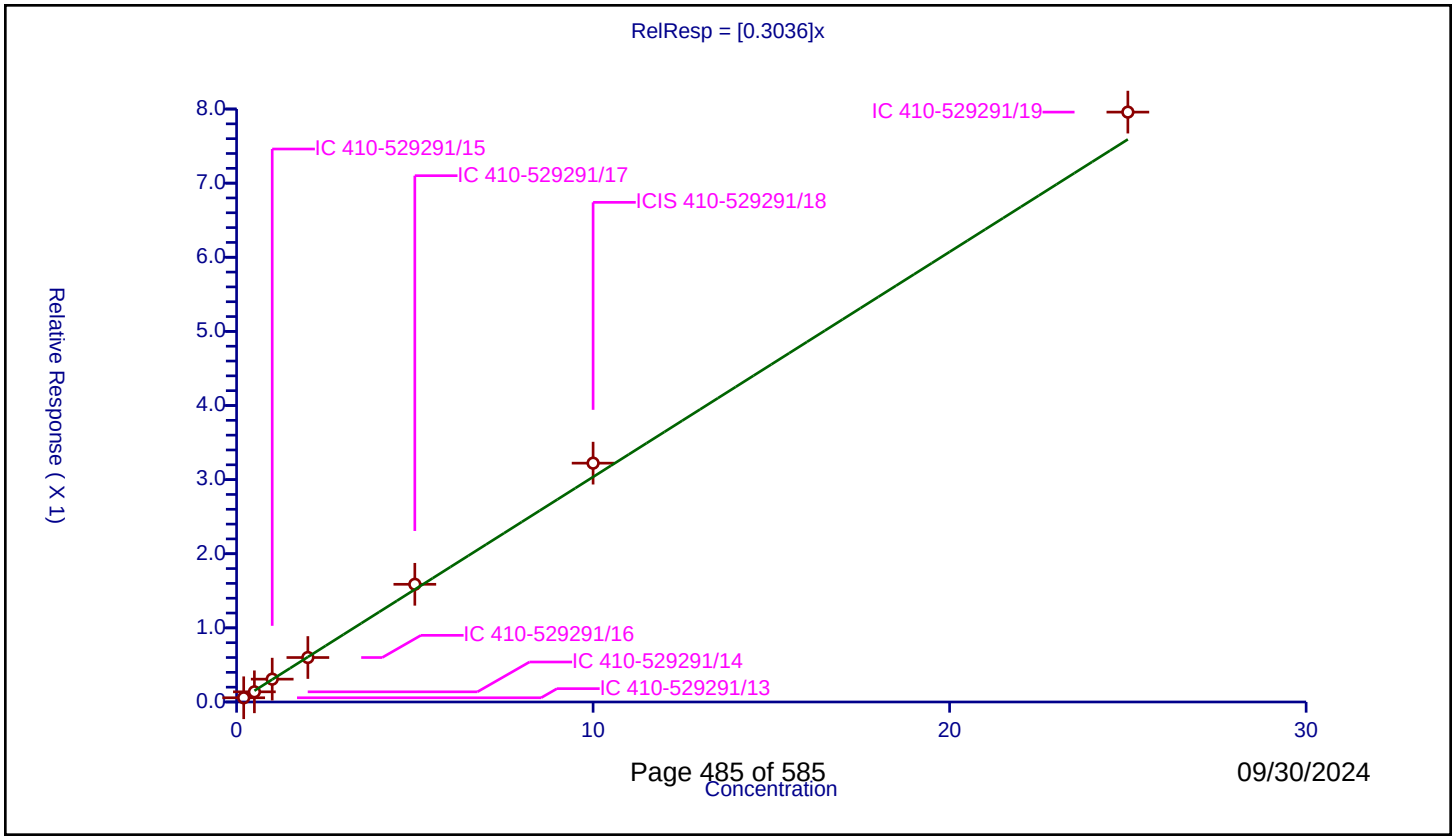
Curve Coefficients

Intercept:	0
Slope:	0.3036

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.056986	10.0	1550719.0	0.284932	Y
2	IC 410-529291/14	0.5	0.137113	10.0	1551422.0	0.274226	Y
3	IC 410-529291/15	1.0	0.308254	10.0	1571302.0	0.308254	Y
4	IC 410-529291/16	2.0	0.59981	10.0	1575332.0	0.299905	Y
5	IC 410-529291/17	5.0	1.58767	10.0	1621905.0	0.317534	Y
6	ICIS 410-529291/18	10.0	3.222323	10.0	1632214.0	0.322232	Y
7	IC 410-529291/19	25.0	7.958167	10.0	1683257.0	0.318327	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

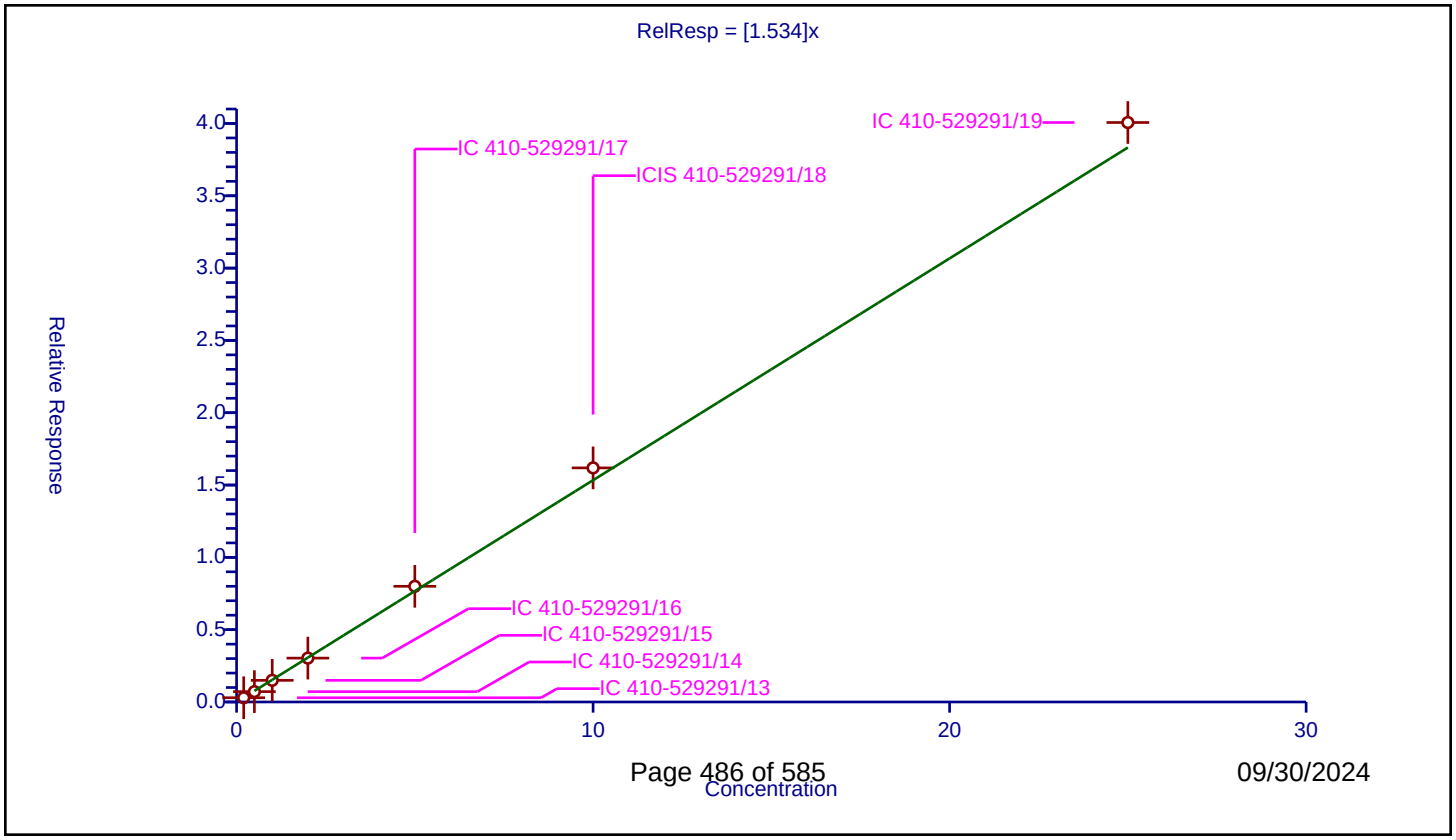
Curve Coefficients

Intercept:	0
Slope:	1.534

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.293199	10.0	1550719.0	1.465997	Y
2	IC 410-529291/14	0.5	0.716794	10.0	1551422.0	1.433588	Y
3	IC 410-529291/15	1.0	1.496886	10.0	1571302.0	1.496886	Y
4	IC 410-529291/16	2.0	3.033964	10.0	1575332.0	1.516982	Y
5	IC 410-529291/17	5.0	7.999587	10.0	1621905.0	1.599917	Y
6	ICIS 410-529291/18	10.0	16.185764	10.0	1632214.0	1.618576	Y
7	IC 410-529291/19	25.0	40.06627	10.0	1683257.0	1.602651	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

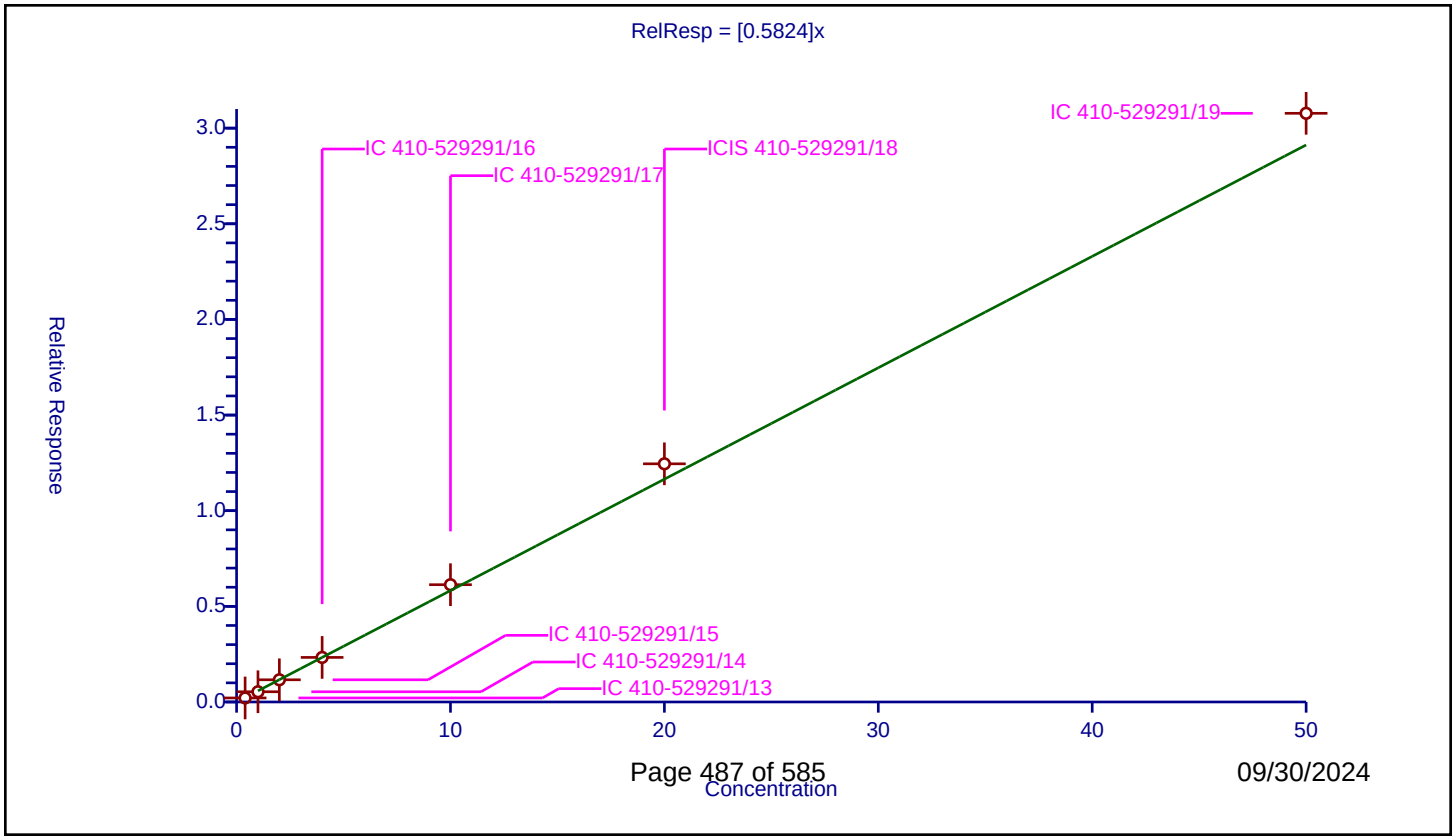
Curve Coefficients

Intercept:	0
Slope:	0.5824

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.4	0.210947	10.0	1550719.0	0.527368	Y
2	IC 410-529291/14	1.0	0.535135	10.0	1551422.0	0.535135	Y
3	IC 410-529291/15	2.0	1.160611	10.0	1571302.0	0.580305	Y
4	IC 410-529291/16	4.0	2.330709	10.0	1575332.0	0.582677	Y
5	IC 410-529291/17	10.0	6.132184	10.0	1621905.0	0.613218	Y
6	ICIS 410-529291/18	20.0	12.451278	10.0	1632214.0	0.622564	Y
7	IC 410-529291/19	50.0	30.775681	10.0	1683257.0	0.615514	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

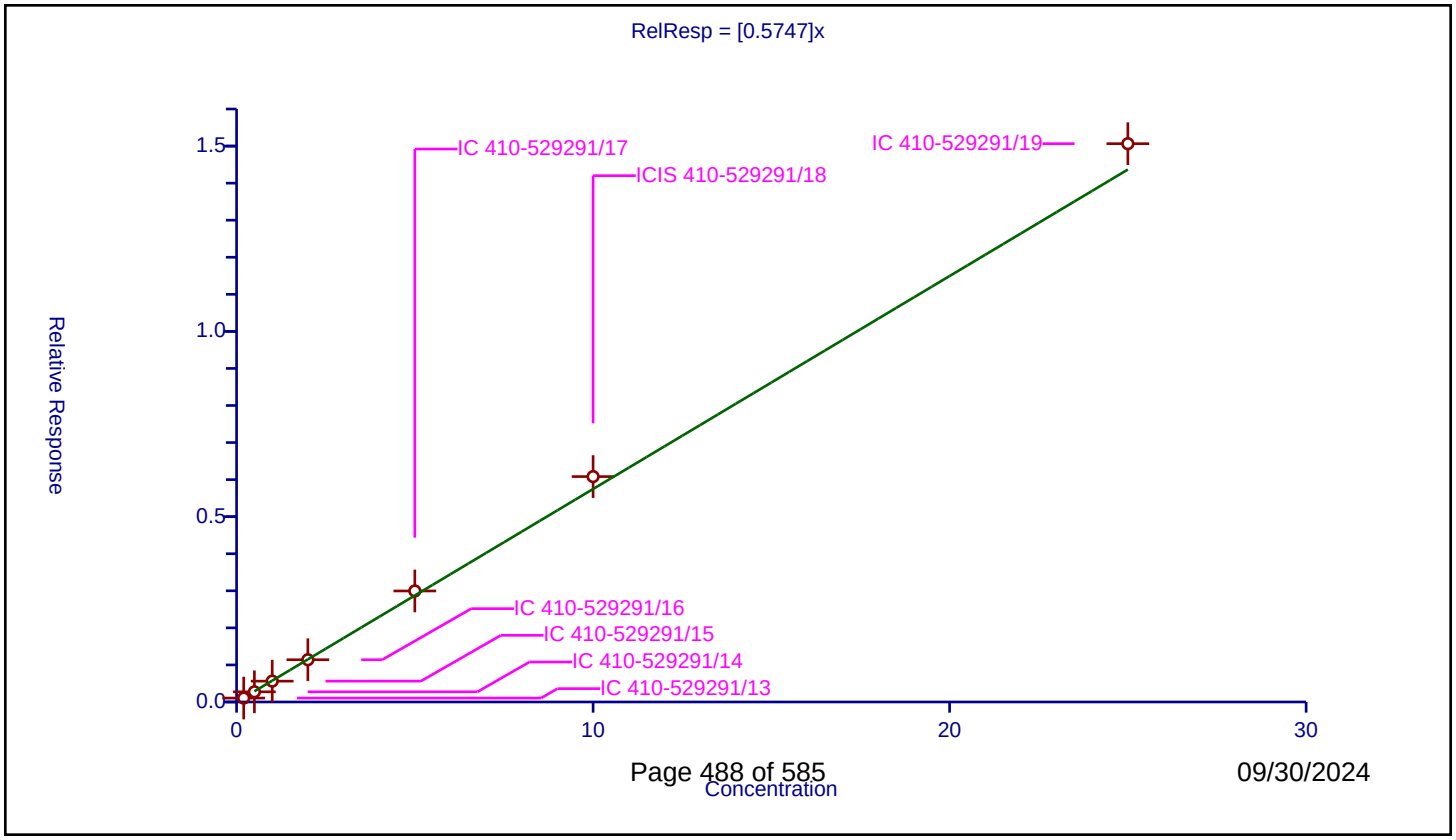
Curve Coefficients

Intercept:	0
Slope:	0.5747

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.106376	10.0	1550719.0	0.531882	Y
2	IC 410-529291/14	0.5	0.2744	10.0	1551422.0	0.5488	Y
3	IC 410-529291/15	1.0	0.562075	10.0	1571302.0	0.562075	Y
4	IC 410-529291/16	2.0	1.139995	10.0	1575332.0	0.569997	Y
5	IC 410-529291/17	5.0	2.995804	10.0	1621905.0	0.599161	Y
6	ICIS 410-529291/18	10.0	6.081666	10.0	1632214.0	0.608167	Y
7	IC 410-529291/19	25.0	15.064943	10.0	1683257.0	0.602598	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

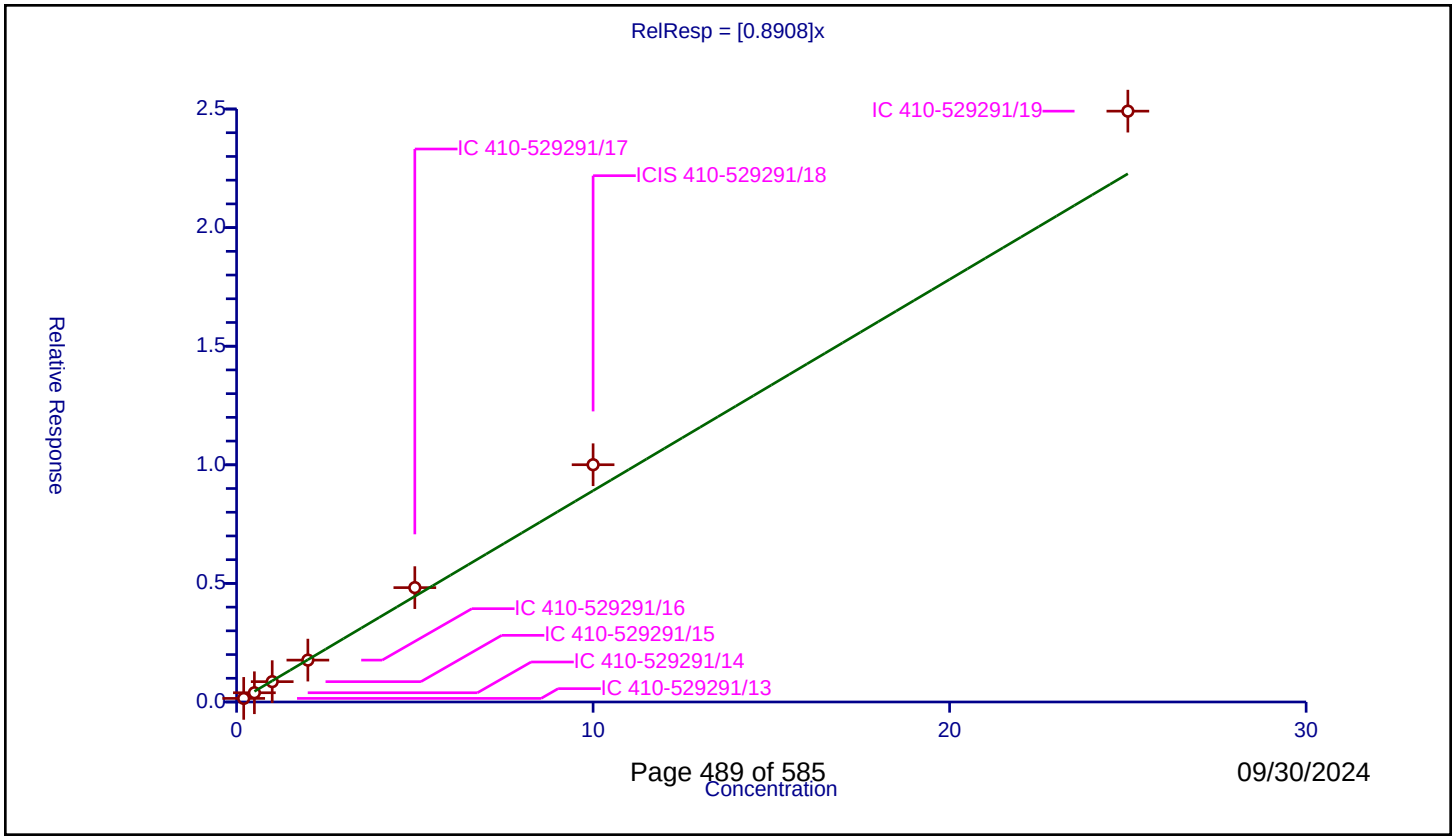
Curve Coefficients

Intercept:	0
Slope:	0.8908

Error Coefficients

Relative Standard Deviation:	11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.151098	10.0	1550719.0	0.755488	Y
2	IC 410-529291/14	0.5	0.38952	10.0	1551422.0	0.77904	Y
3	IC 410-529291/15	1.0	0.8572	10.0	1571302.0	0.8572	Y
4	IC 410-529291/16	2.0	1.766009	10.0	1575332.0	0.883004	Y
5	IC 410-529291/17	5.0	4.821398	10.0	1621905.0	0.96428	Y
6	ICIS 410-529291/18	10.0	10.002812	10.0	1632214.0	1.000281	Y
7	IC 410-529291/19	25.0	24.909939	10.0	1683257.0	0.996398	Y



09/30/2024

Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

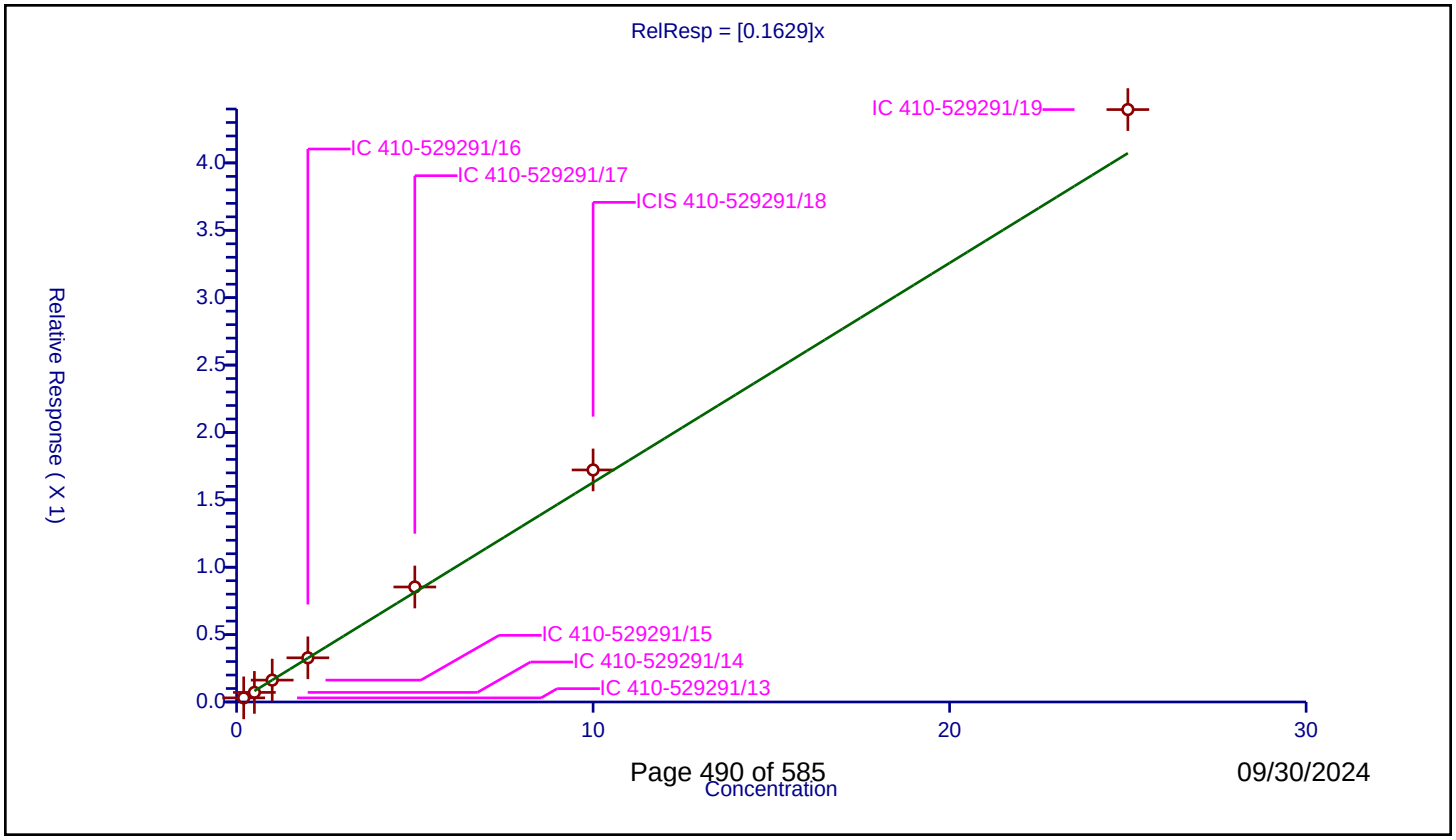
Curve Coefficients

Intercept:	0
Slope:	0.1629

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.030618	10.0	1550719.0	0.15309	Y
2	IC 410-529291/14	0.5	0.071135	10.0	1551422.0	0.142269	Y
3	IC 410-529291/15	1.0	0.162318	10.0	1571302.0	0.162318	Y
4	IC 410-529291/16	2.0	0.327715	10.0	1575332.0	0.163858	Y
5	IC 410-529291/17	5.0	0.853324	10.0	1621905.0	0.170665	Y
6	ICIS 410-529291/18	10.0	1.721784	10.0	1632214.0	0.172178	Y
7	IC 410-529291/19	25.0	4.395877	10.0	1683257.0	0.175835	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

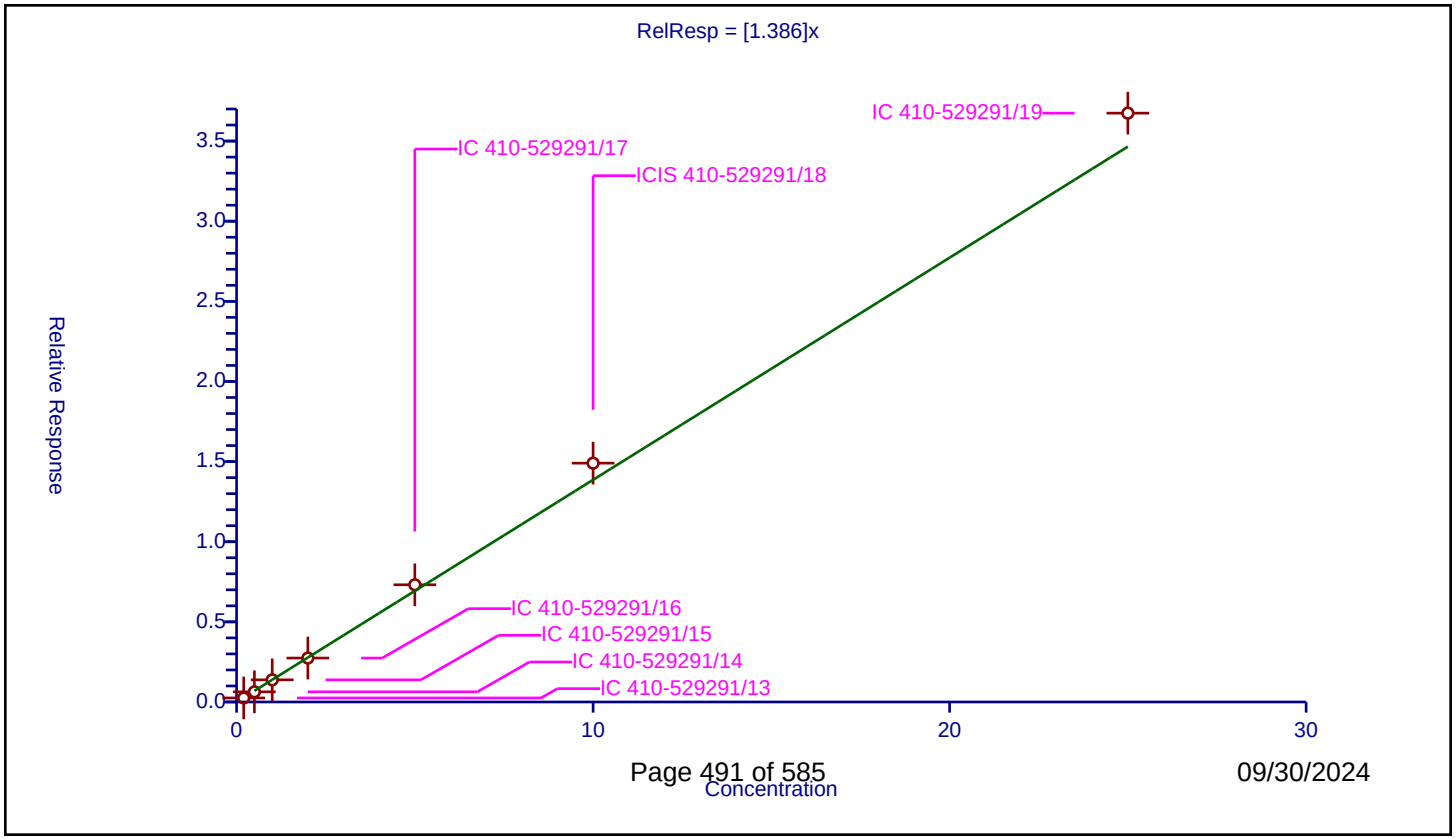
Curve Coefficients

Intercept:	0
Slope:	1.386

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.251645	10.0	1550719.0	1.258223	Y
2	IC 410-529291/14	0.5	0.635005	10.0	1551422.0	1.270009	Y
3	IC 410-529291/15	1.0	1.381332	10.0	1571302.0	1.381332	Y
4	IC 410-529291/16	2.0	2.741892	10.0	1575332.0	1.370946	Y
5	IC 410-529291/17	5.0	7.313776	10.0	1621905.0	1.462755	Y
6	ICIS 410-529291/18	10.0	14.90239	10.0	1632214.0	1.490239	Y
7	IC 410-529291/19	25.0	36.742732	10.0	1683257.0	1.469709	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

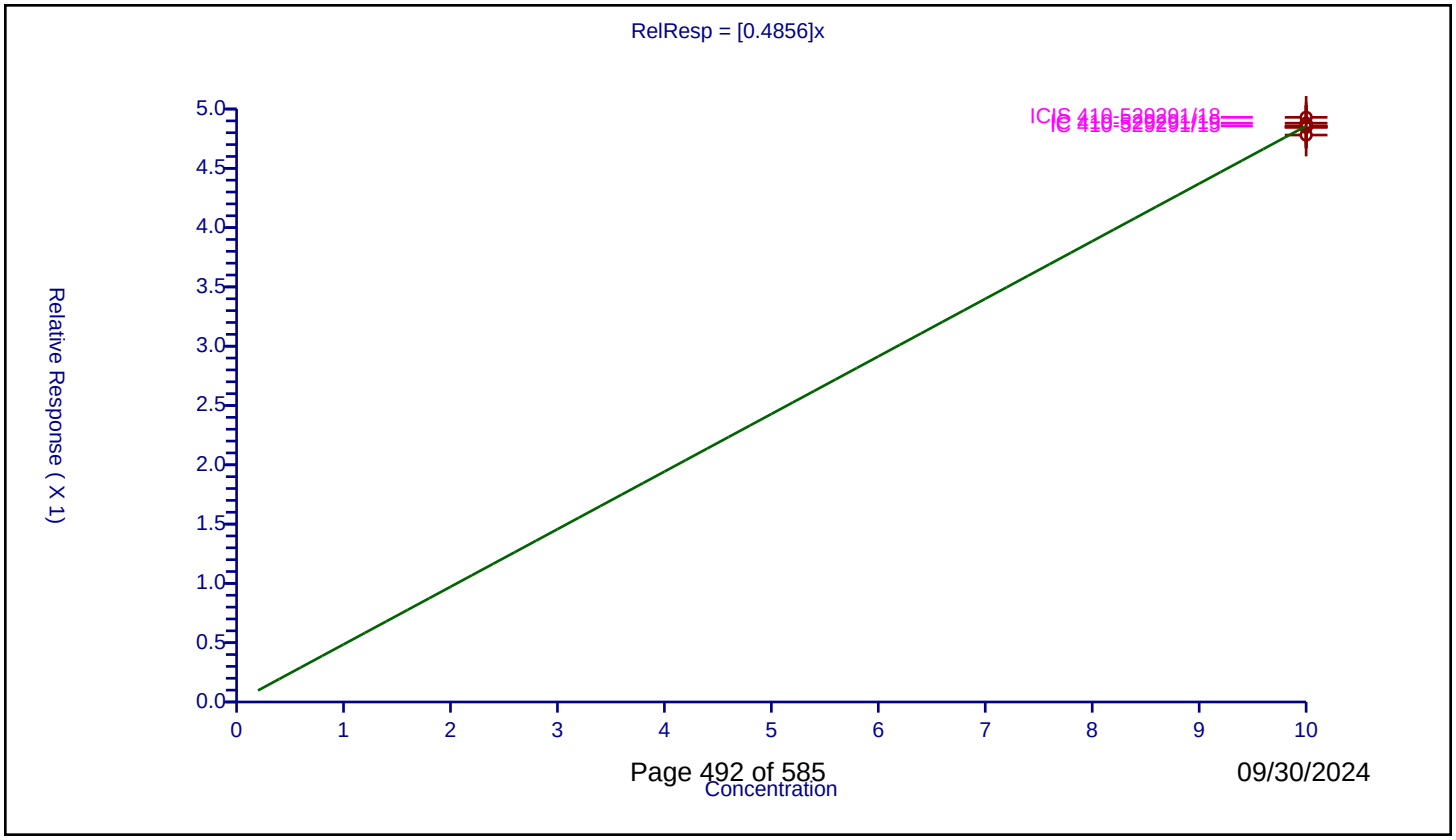
Curve Coefficients

Intercept:	0
Slope:	0.4856

Error Coefficients

Relative Standard Deviation:	0.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	10.0	4.78057	10.0	1550719.0	0.478057	Y
2	IC 410-529291/14	10.0	4.846096	10.0	1551422.0	0.48461	Y
3	IC 410-529291/15	10.0	4.857405	10.0	1571302.0	0.48574	Y
4	IC 410-529291/16	10.0	4.853161	10.0	1575332.0	0.485316	Y
5	IC 410-529291/17	10.0	4.847238	10.0	1621905.0	0.484724	Y
6	ICIS 410-529291/18	10.0	4.929917	10.0	1632214.0	0.492992	Y
7	IC 410-529291/19	10.0	4.880805	10.0	1683257.0	0.488081	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

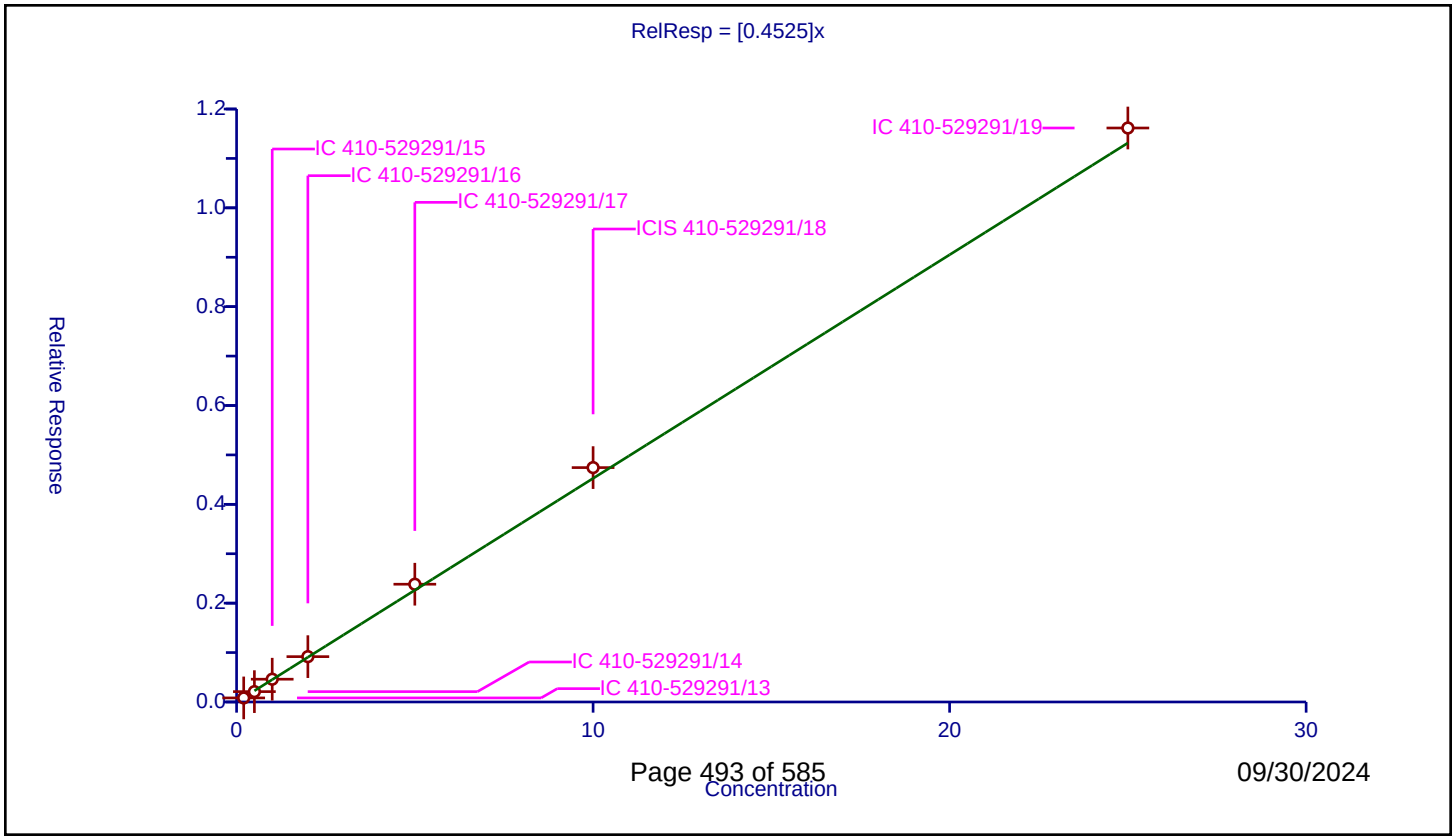
Curve Coefficients

Intercept:	0
Slope:	0.4525

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.082499	10.0	859400.0	0.412497	Y
2	IC 410-529291/14	0.5	0.209737	10.0	858934.0	0.419473	Y
3	IC 410-529291/15	1.0	0.461156	10.0	872460.0	0.461156	Y
4	IC 410-529291/16	2.0	0.917854	10.0	872633.0	0.458927	Y
5	IC 410-529291/17	5.0	2.383104	10.0	910535.0	0.476621	Y
6	ICIS 410-529291/18	10.0	4.743056	10.0	922380.0	0.474306	Y
7	IC 410-529291/19	25.0	11.615989	10.0	959394.0	0.46464	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

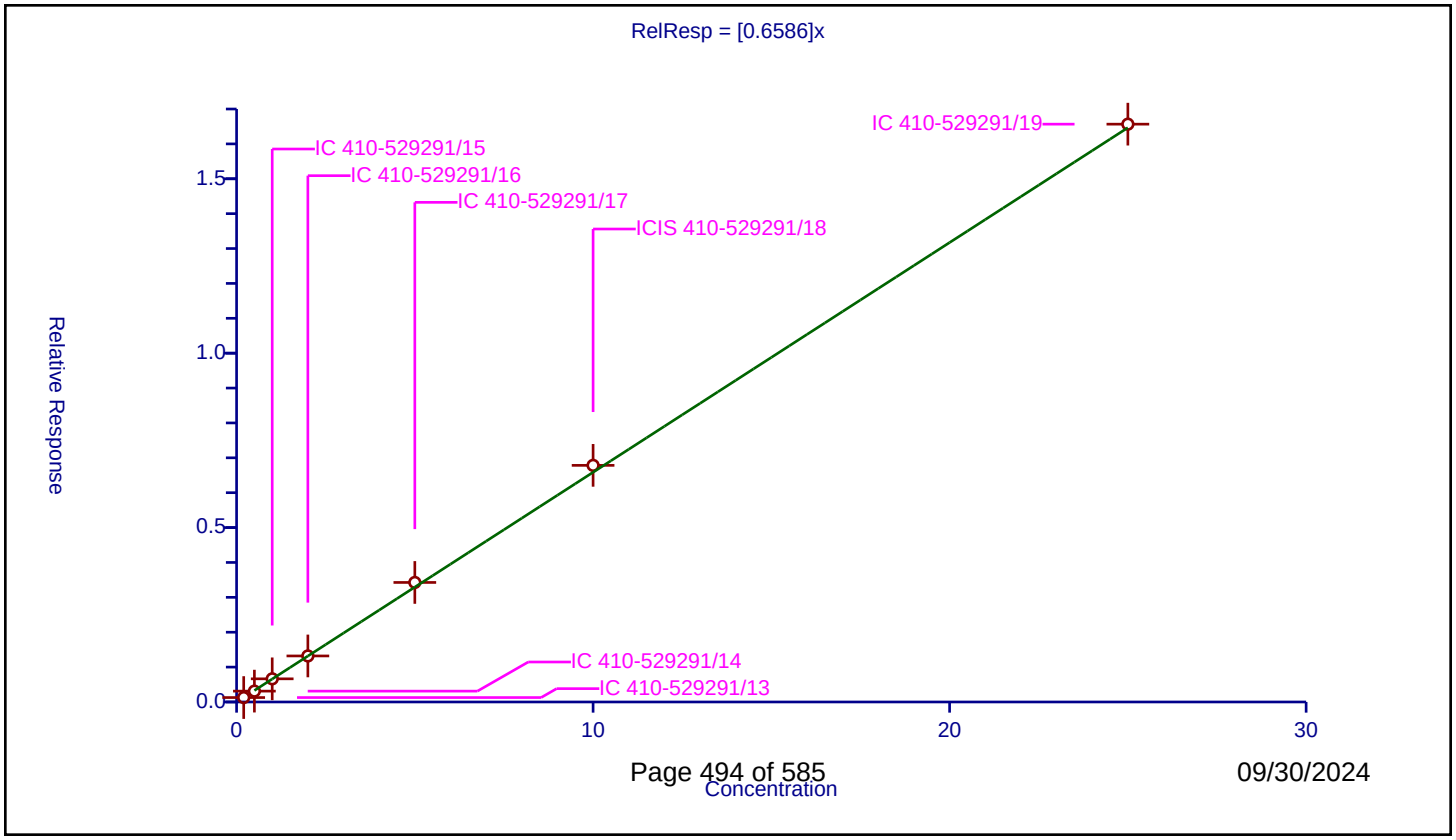
Curve Coefficients

Intercept:	0
Slope:	0.6586

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.127414	10.0	859400.0	0.637072	Y
2	IC 410-529291/14	0.5	0.311363	10.0	858934.0	0.622725	Y
3	IC 410-529291/15	1.0	0.663881	10.0	872460.0	0.663881	Y
4	IC 410-529291/16	2.0	1.319982	10.0	872633.0	0.659991	Y
5	IC 410-529291/17	5.0	3.42726	10.0	910535.0	0.685452	Y
6	ICIS 410-529291/18	10.0	6.783647	10.0	922380.0	0.678365	Y
7	IC 410-529291/19	25.0	16.565697	10.0	959394.0	0.662628	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

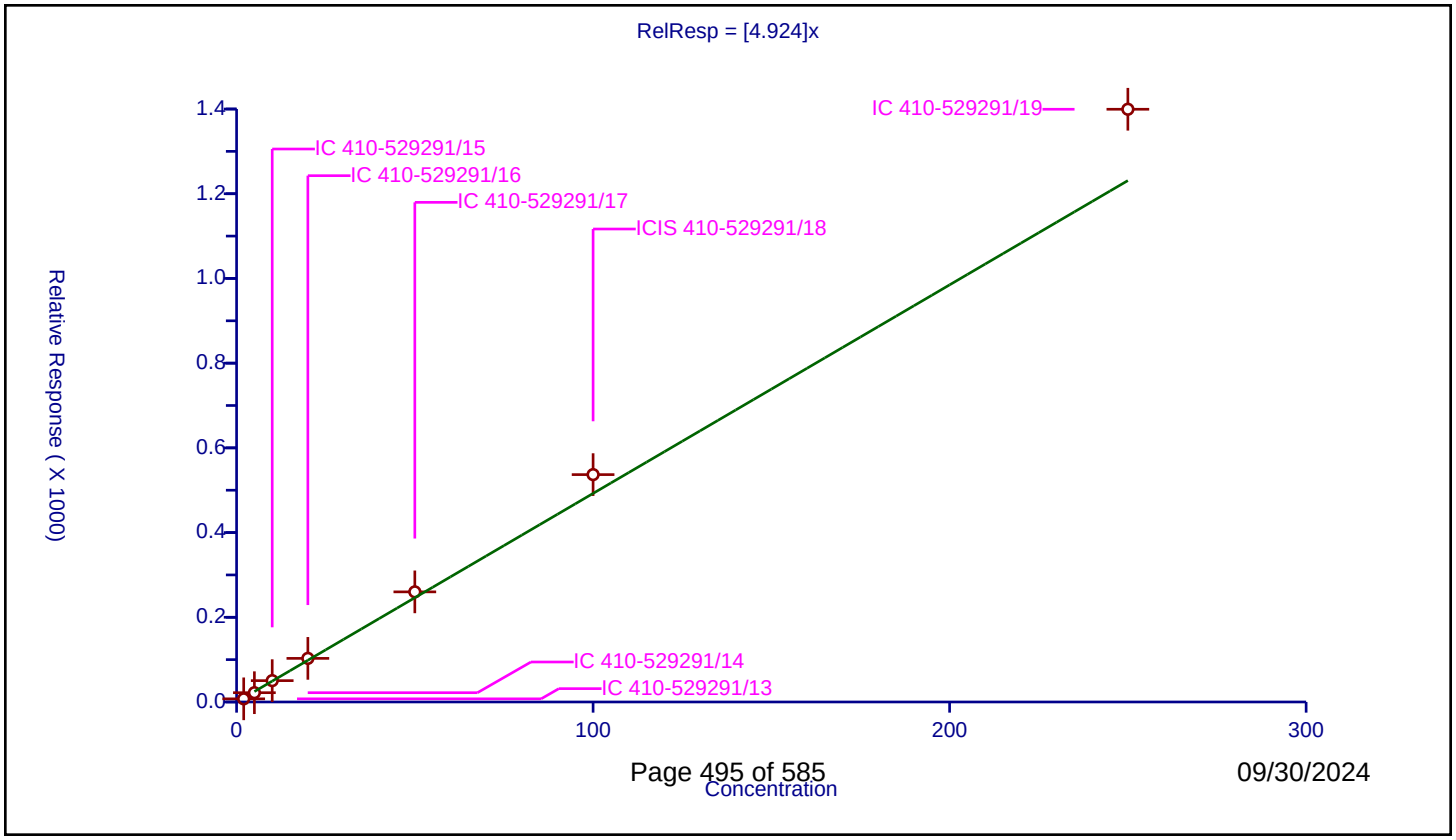
Curve Coefficients

Intercept:	0
Slope:	4.924

Error Coefficients

Relative Standard Deviation:	13.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	2.0	7.438646	50.0	98405.0	3.719323	Y
2	IC 410-529291/14	5.0	21.969234	50.0	101542.0	4.393847	Y
3	IC 410-529291/15	10.0	50.38973	50.0	102122.0	5.038973	Y
4	IC 410-529291/16	20.0	102.998165	50.0	99711.0	5.149908	Y
5	IC 410-529291/17	50.0	260.009703	50.0	110278.0	5.200194	Y
6	ICIS 410-529291/18	100.0	536.842471	50.0	107980.0	5.368425	Y
7	IC 410-529291/19	250.0	1399.460935	50.0	107501.0	5.597844	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

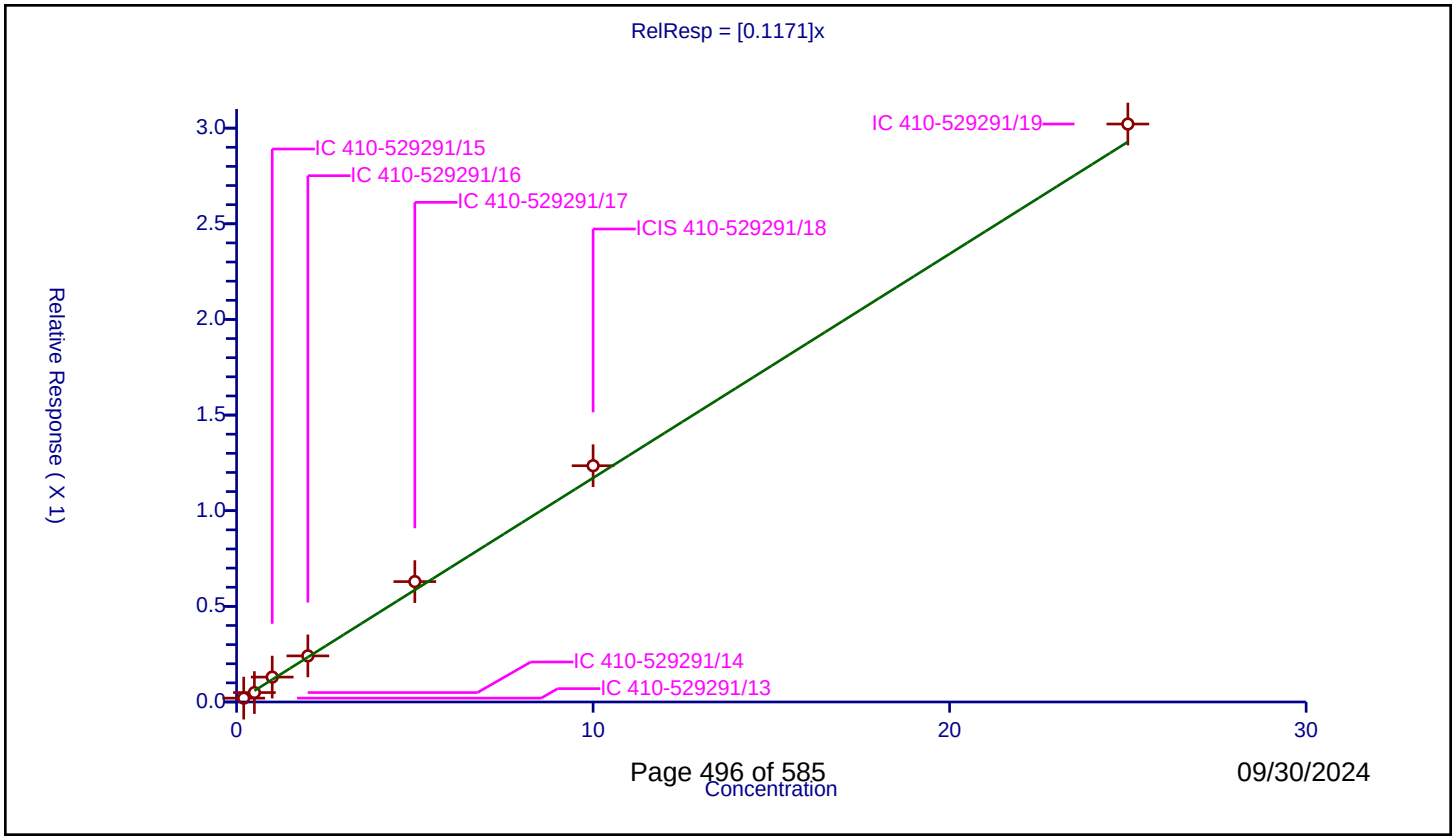
Curve Coefficients

Intercept:	0
Slope:	0.1171

Error Coefficients

Relative Standard Deviation:	10.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.020095	10.0	859400.0	0.100477	Y
2	IC 410-529291/14	0.5	0.049294	10.0	858934.0	0.098587	Y
3	IC 410-529291/15	1.0	0.130115	10.0	872460.0	0.130115	Y
4	IC 410-529291/16	2.0	0.240983	10.0	872633.0	0.120492	Y
5	IC 410-529291/17	5.0	0.629322	10.0	910535.0	0.125864	Y
6	ICIS 410-529291/18	10.0	1.235304	10.0	922380.0	0.12353	Y
7	IC 410-529291/19	25.0	3.02147	10.0	959394.0	0.120859	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

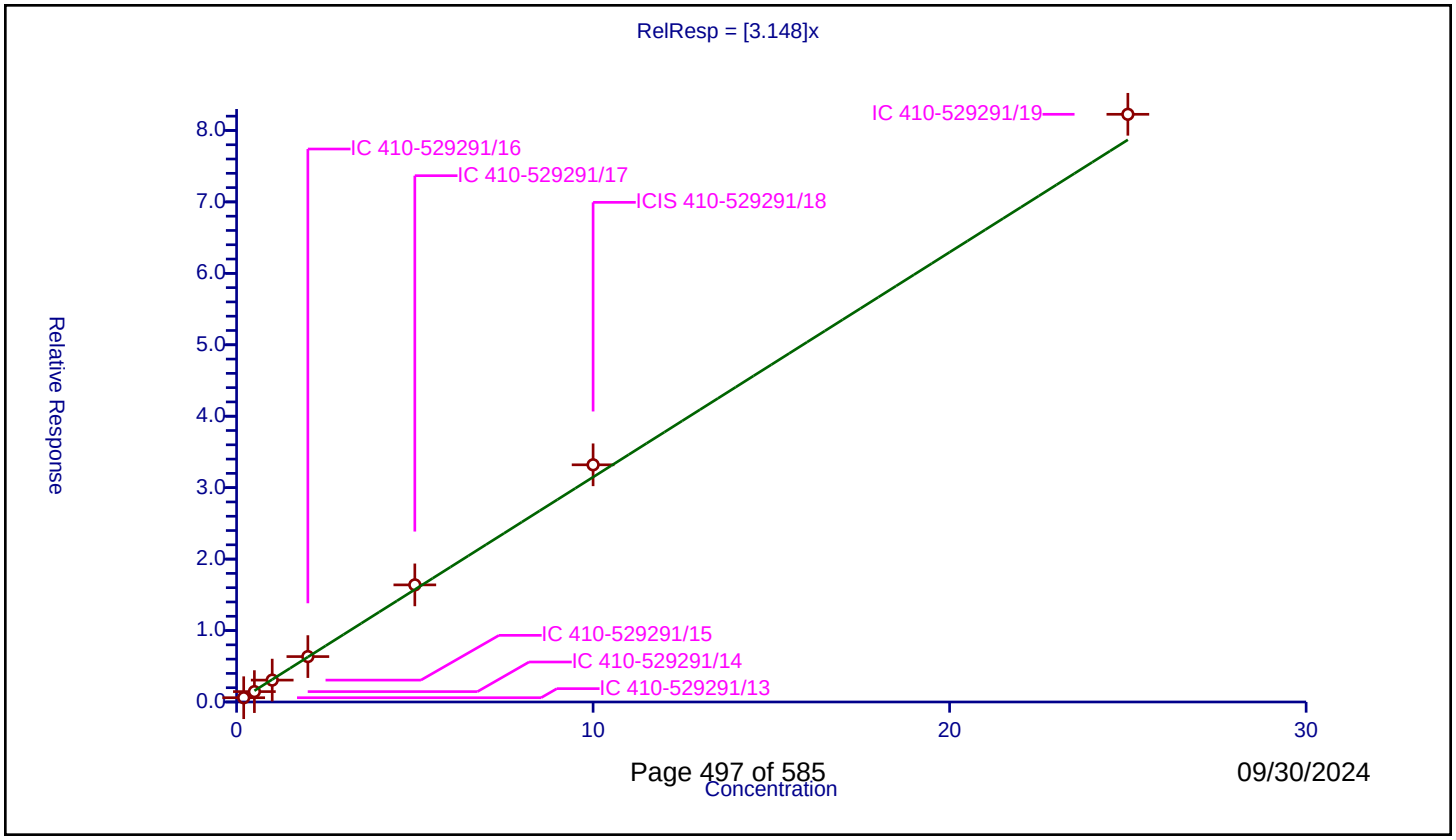
Curve Coefficients

Intercept:	0
Slope:	3.148

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.598871	10.0	859400.0	2.994357	Y
2	IC 410-529291/14	0.5	1.454675	10.0	858934.0	2.90935	Y
3	IC 410-529291/15	1.0	3.063728	10.0	872460.0	3.063728	Y
4	IC 410-529291/16	2.0	6.356555	10.0	872633.0	3.178278	Y
5	IC 410-529291/17	5.0	16.391155	10.0	910535.0	3.278231	Y
6	ICIS 410-529291/18	10.0	33.198389	10.0	922380.0	3.319839	Y
7	IC 410-529291/19	25.0	82.262501	10.0	959394.0	3.2905	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

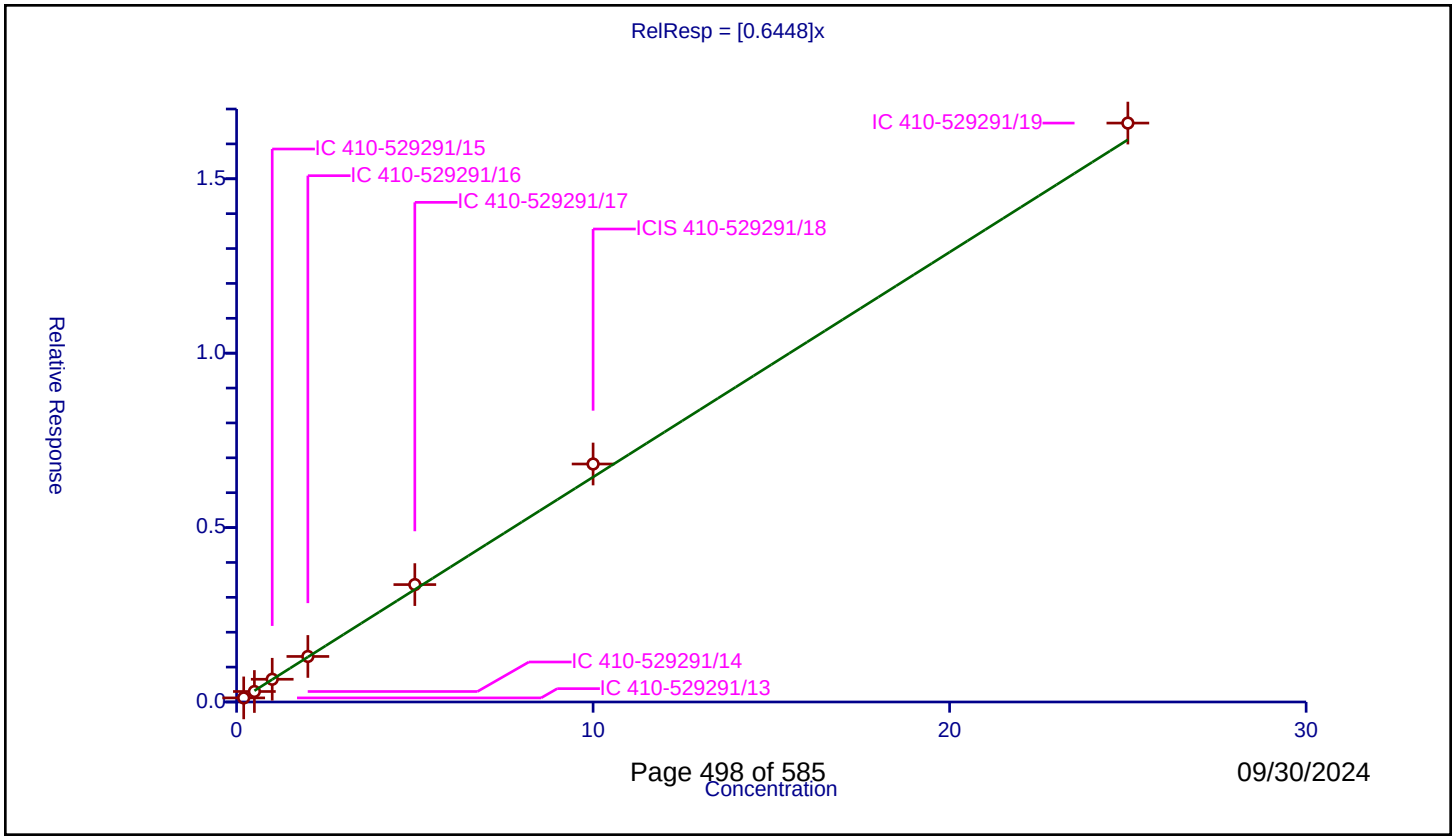
Curve Coefficients

Intercept:	0
Slope:	0.6448

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.117605	10.0	859400.0	0.588027	Y
2	IC 410-529291/14	0.5	0.301129	10.0	858934.0	0.602258	Y
3	IC 410-529291/15	1.0	0.651377	10.0	872460.0	0.651377	Y
4	IC 410-529291/16	2.0	1.305509	10.0	872633.0	0.652754	Y
5	IC 410-529291/17	5.0	3.365494	10.0	910535.0	0.673099	Y
6	ICIS 410-529291/18	10.0	6.8226	10.0	922380.0	0.68226	Y
7	IC 410-529291/19	25.0	16.59706	10.0	959394.0	0.663882	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

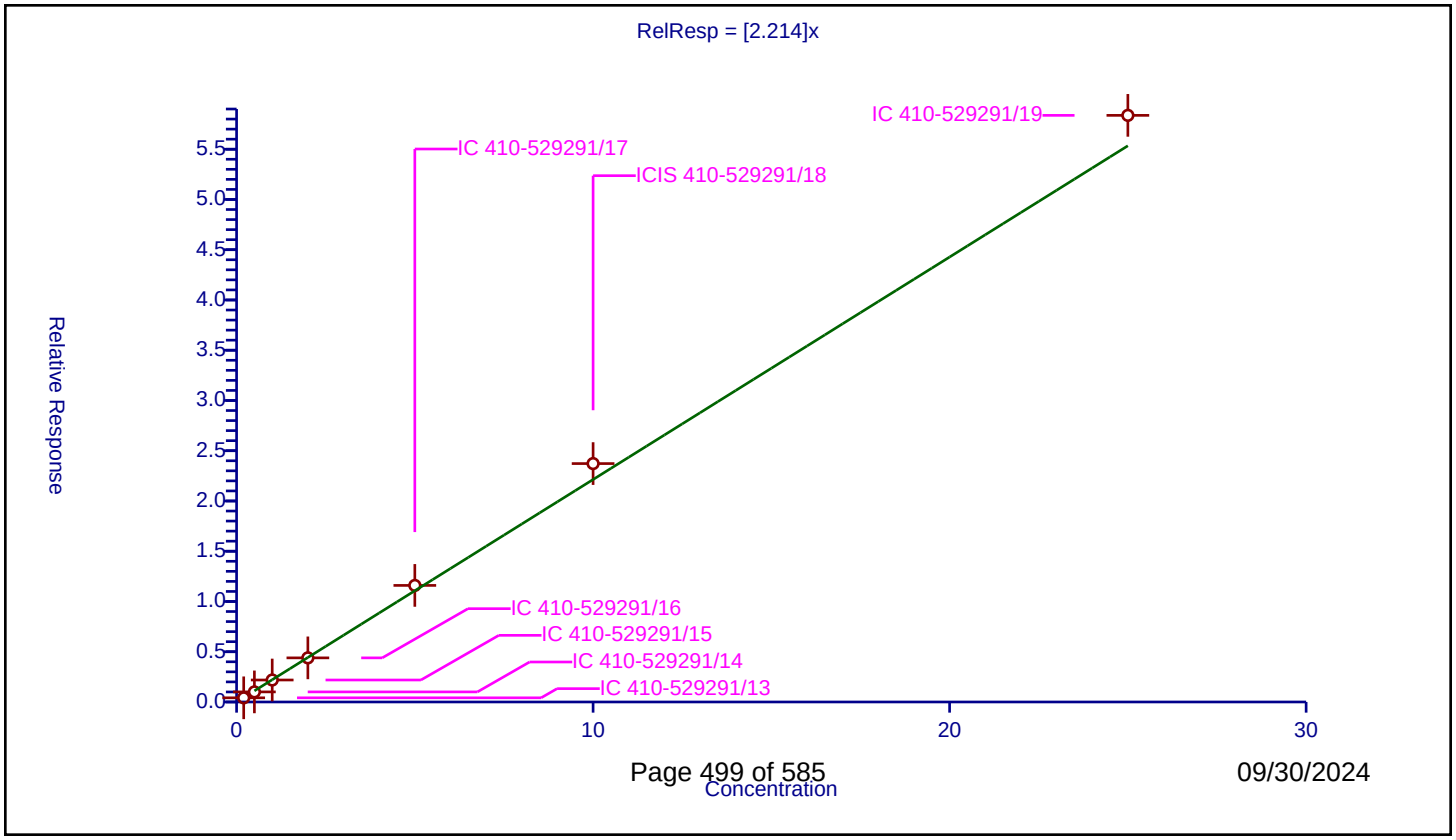
Curve Coefficients

Intercept:	0
Slope:	2.214

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.415266	10.0	859400.0	2.076332	Y
2	IC 410-529291/14	0.5	1.005572	10.0	858934.0	2.011144	Y
3	IC 410-529291/15	1.0	2.18653	10.0	872460.0	2.18653	Y
4	IC 410-529291/16	2.0	4.390139	10.0	872633.0	2.195069	Y
5	IC 410-529291/17	5.0	11.597544	10.0	910535.0	2.319509	Y
6	ICIS 410-529291/18	10.0	23.721362	10.0	922380.0	2.372136	Y
7	IC 410-529291/19	25.0	58.368282	10.0	959394.0	2.334731	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

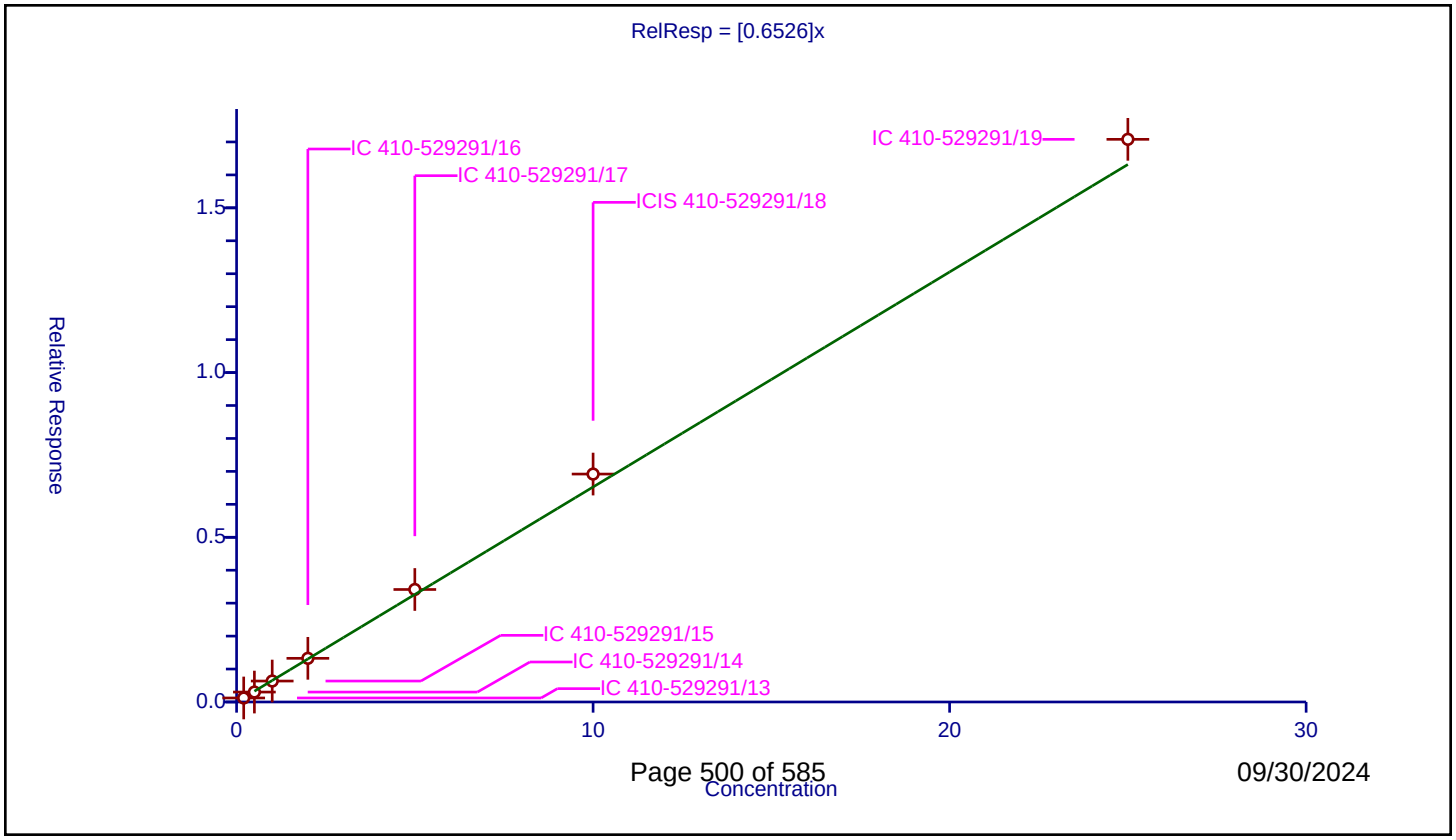
Curve Coefficients

Intercept:	0
Slope:	0.6526

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.121806	10.0	859400.0	0.60903	Y
2	IC 410-529291/14	0.5	0.301758	10.0	858934.0	0.603516	Y
3	IC 410-529291/15	1.0	0.635456	10.0	872460.0	0.635456	Y
4	IC 410-529291/16	2.0	1.32515	10.0	872633.0	0.662575	Y
5	IC 410-529291/17	5.0	3.41452	10.0	910535.0	0.682904	Y
6	ICIS 410-529291/18	10.0	6.918721	10.0	922380.0	0.691872	Y
7	IC 410-529291/19	25.0	17.079521	10.0	959394.0	0.683181	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

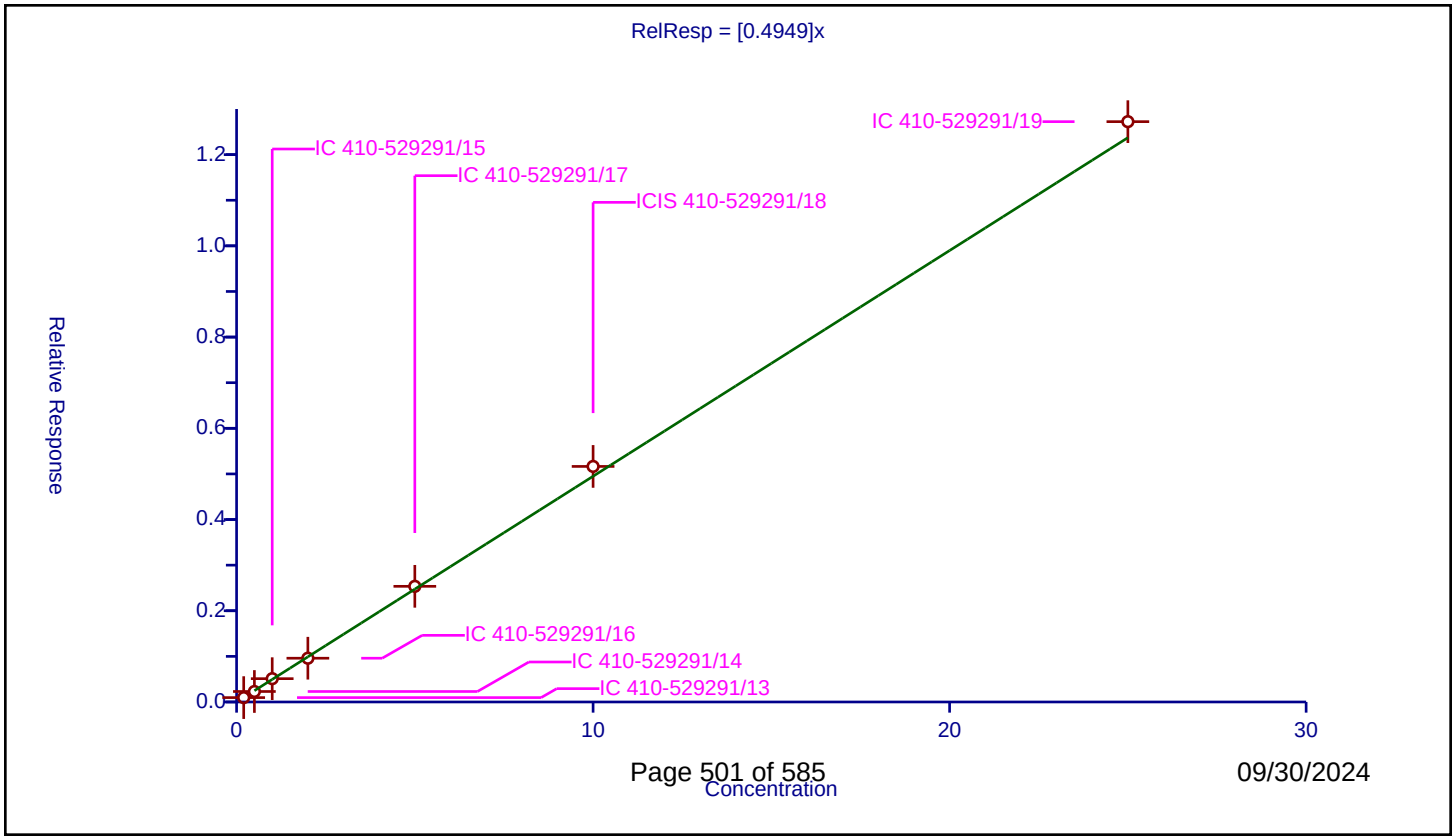
Curve Coefficients

Intercept:	0
Slope:	0.4949

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.096032	10.0	859400.0	0.480161	Y
2	IC 410-529291/14	0.5	0.230309	10.0	858934.0	0.460617	Y
3	IC 410-529291/15	1.0	0.511152	10.0	872460.0	0.511152	Y
4	IC 410-529291/16	2.0	0.959384	10.0	872633.0	0.479692	Y
5	IC 410-529291/17	5.0	2.535762	10.0	910535.0	0.507152	Y
6	ICIS 410-529291/18	10.0	5.164	10.0	922380.0	0.5164	Y
7	IC 410-529291/19	25.0	12.722938	10.0	959394.0	0.508918	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

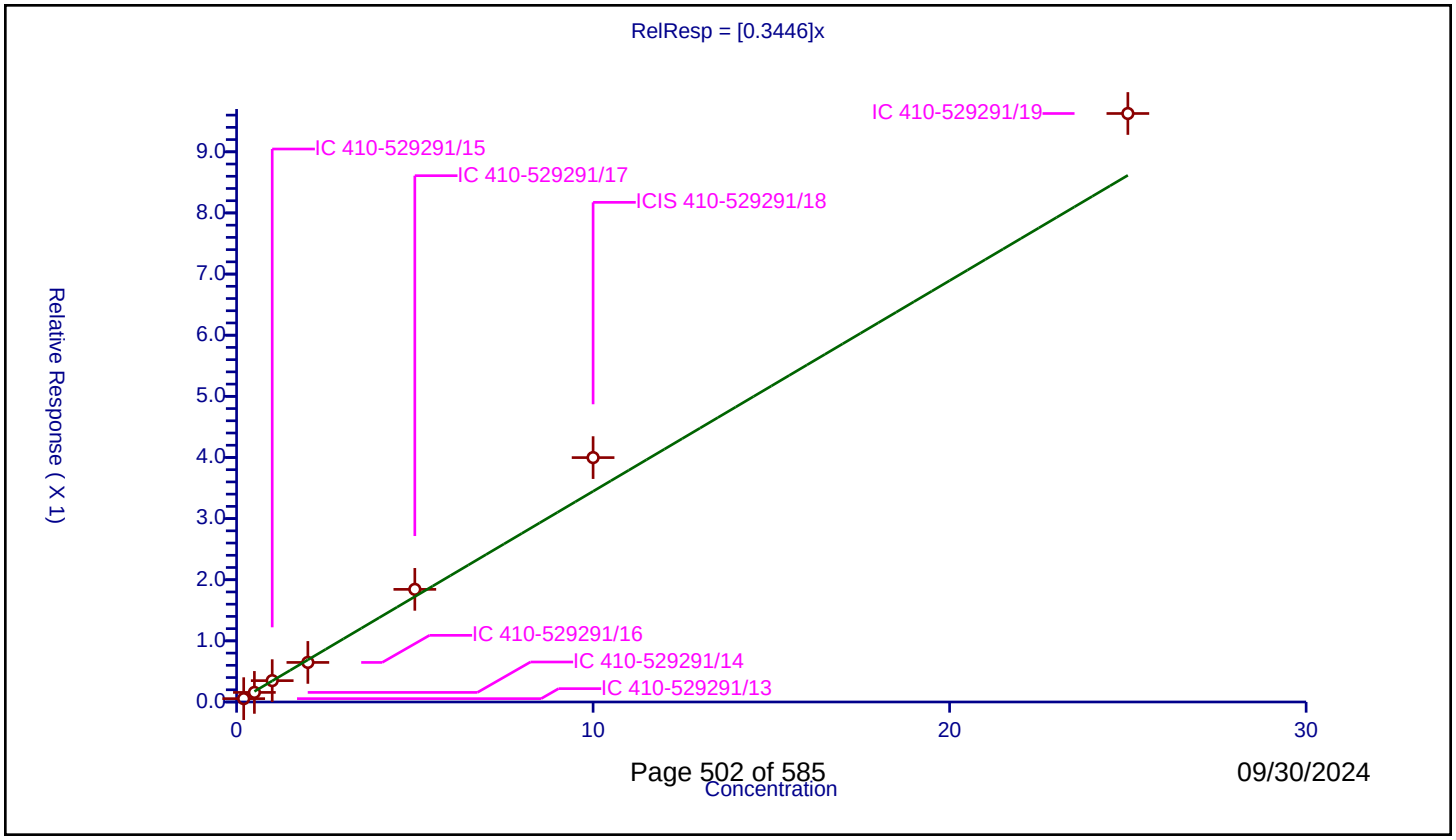
Curve Coefficients

Intercept:	0
Slope:	0.3446

Error Coefficients

Relative Standard Deviation:	12.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.05455	10.0	859400.0	0.272748	Y
2	IC 410-529291/14	0.5	0.156671	10.0	858934.0	0.313342	Y
3	IC 410-529291/15	1.0	0.349357	10.0	872460.0	0.349357	Y
4	IC 410-529291/16	2.0	0.647179	10.0	872633.0	0.32359	Y
5	IC 410-529291/17	5.0	1.84251	10.0	910535.0	0.368502	Y
6	ICIS 410-529291/18	10.0	3.997745	10.0	922380.0	0.399774	Y
7	IC 410-529291/19	25.0	9.62665	10.0	959394.0	0.385066	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

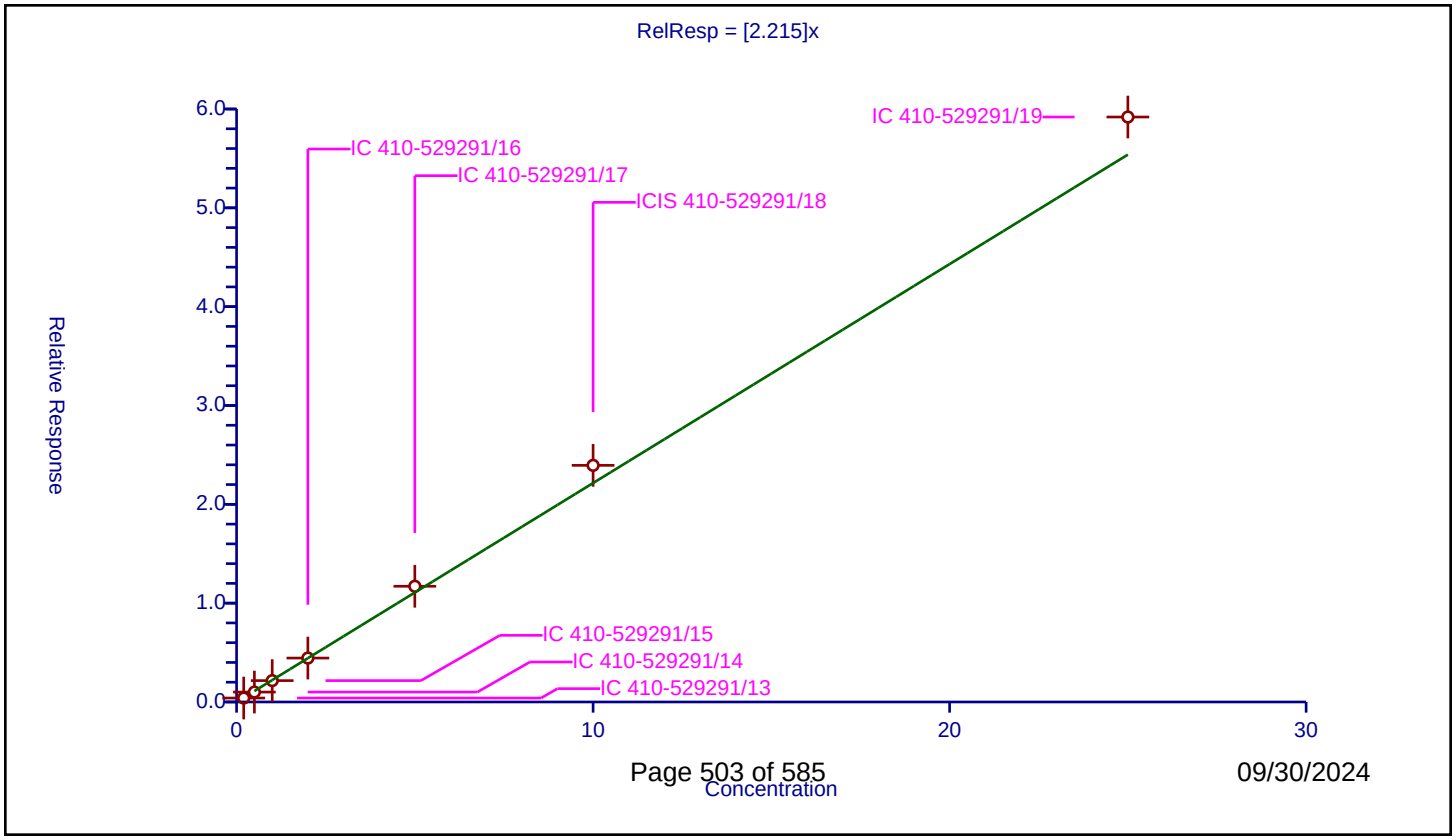
Curve Coefficients

Intercept:	0
Slope:	2.215

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.401955	10.0	859400.0	2.009774	Y
2	IC 410-529291/14	0.5	1.004722	10.0	858934.0	2.009444	Y
3	IC 410-529291/15	1.0	2.161899	10.0	872460.0	2.161899	Y
4	IC 410-529291/16	2.0	4.444893	10.0	872633.0	2.222446	Y
5	IC 410-529291/17	5.0	11.710028	10.0	910535.0	2.342006	Y
6	ICIS 410-529291/18	10.0	23.942638	10.0	922380.0	2.394264	Y
7	IC 410-529291/19	25.0	59.189843	10.0	959394.0	2.367594	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

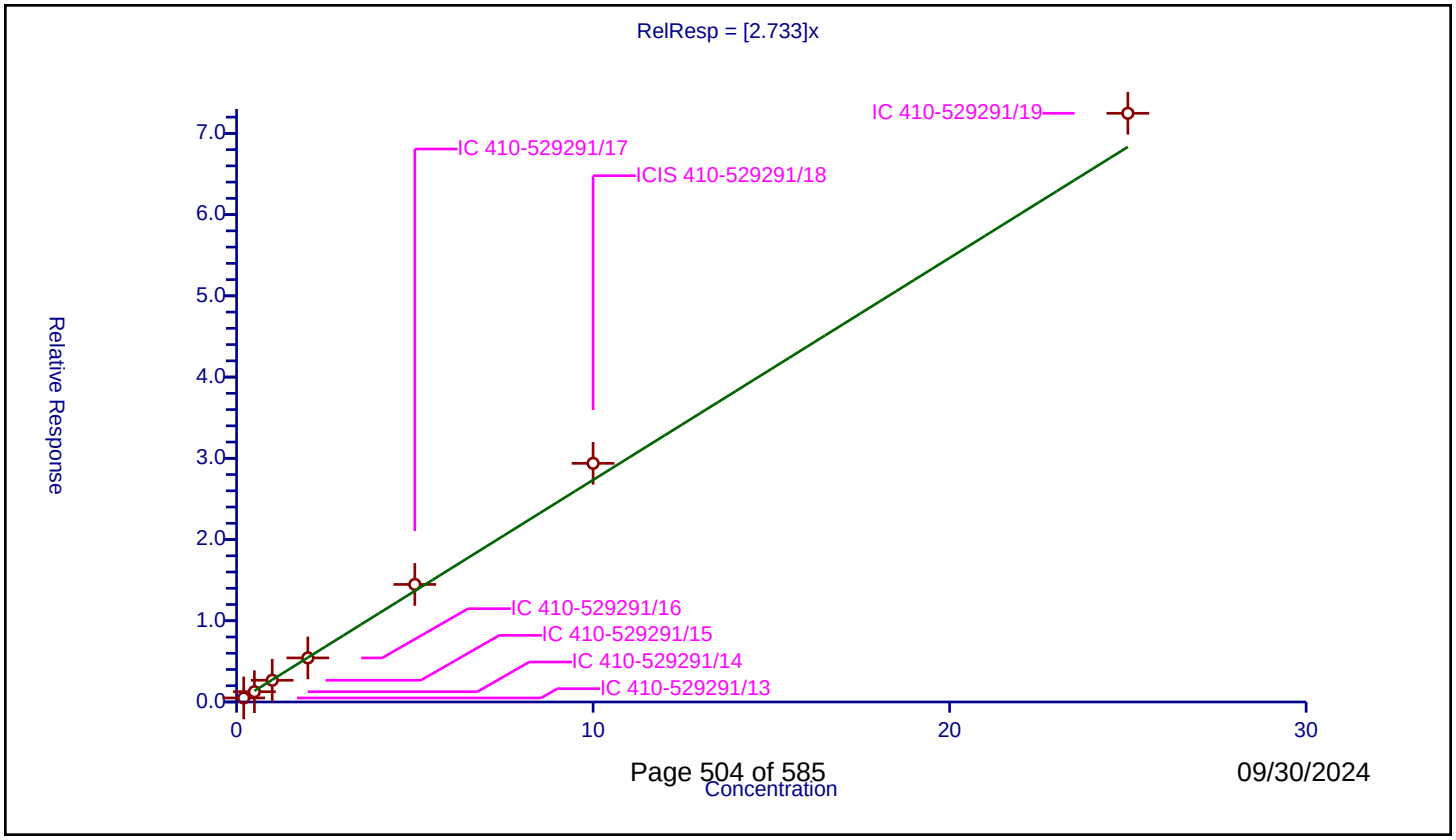
Curve Coefficients

Intercept:	0
Slope:	2.733

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.496684	10.0	859400.0	2.483419	Y
2	IC 410-529291/14	0.5	1.26678	10.0	858934.0	2.533559	Y
3	IC 410-529291/15	1.0	2.673647	10.0	872460.0	2.673647	Y
4	IC 410-529291/16	2.0	5.424457	10.0	872633.0	2.712228	Y
5	IC 410-529291/17	5.0	14.471108	10.0	910535.0	2.894222	Y
6	ICIS 410-529291/18	10.0	29.381741	10.0	922380.0	2.938174	Y
7	IC 410-529291/19	25.0	72.474687	10.0	959394.0	2.898987	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

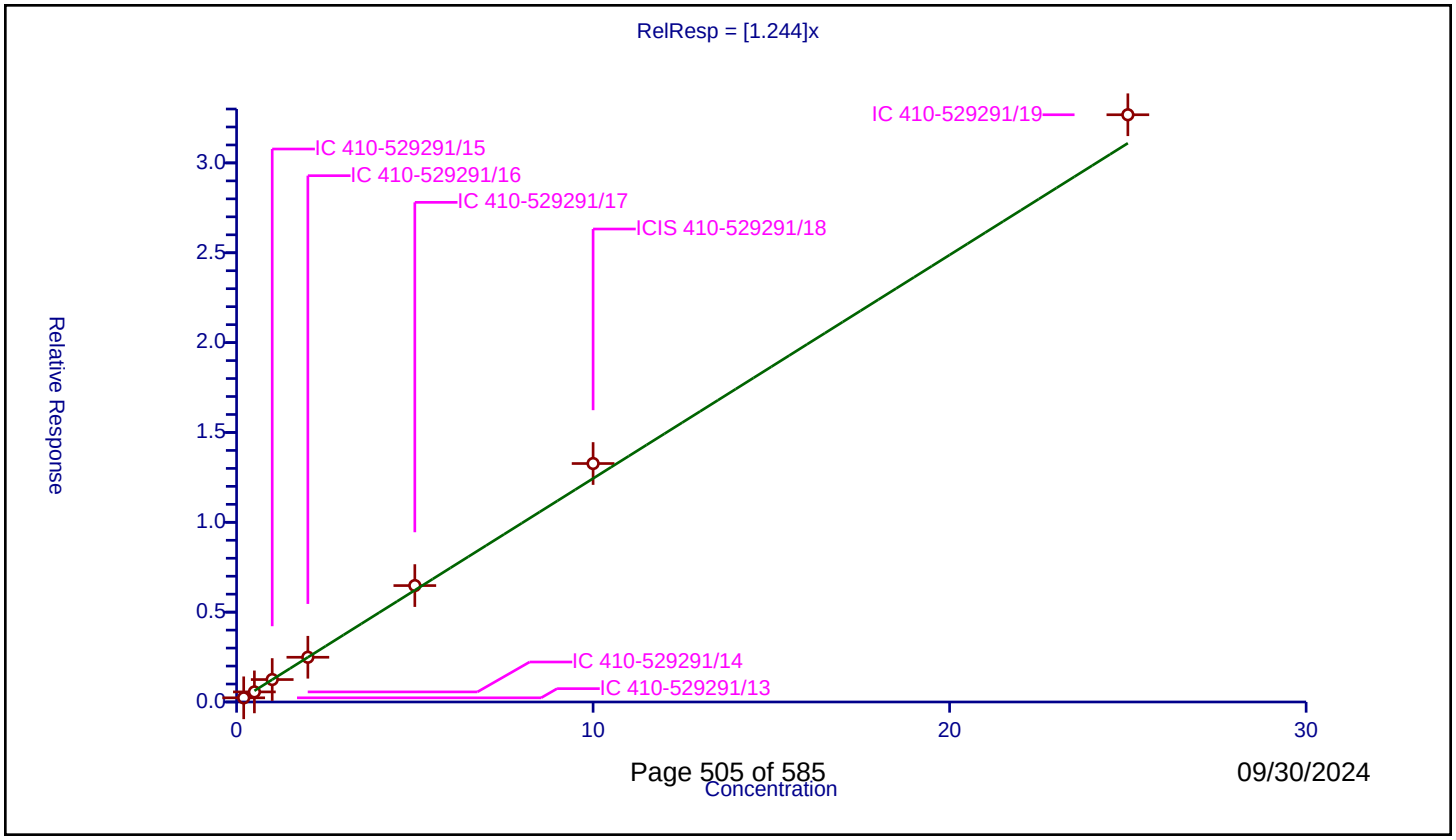
Curve Coefficients

Intercept:	0
Slope:	1.244

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.232081	10.0	859400.0	1.160403	Y
2	IC 410-529291/14	0.5	0.561405	10.0	858934.0	1.12281	Y
3	IC 410-529291/15	1.0	1.249307	10.0	872460.0	1.249307	Y
4	IC 410-529291/16	2.0	2.489684	10.0	872633.0	1.244842	Y
5	IC 410-529291/17	5.0	6.478202	10.0	910535.0	1.29564	Y
6	ICIS 410-529291/18	10.0	13.271721	10.0	922380.0	1.327172	Y
7	IC 410-529291/19	25.0	32.680442	10.0	959394.0	1.307218	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

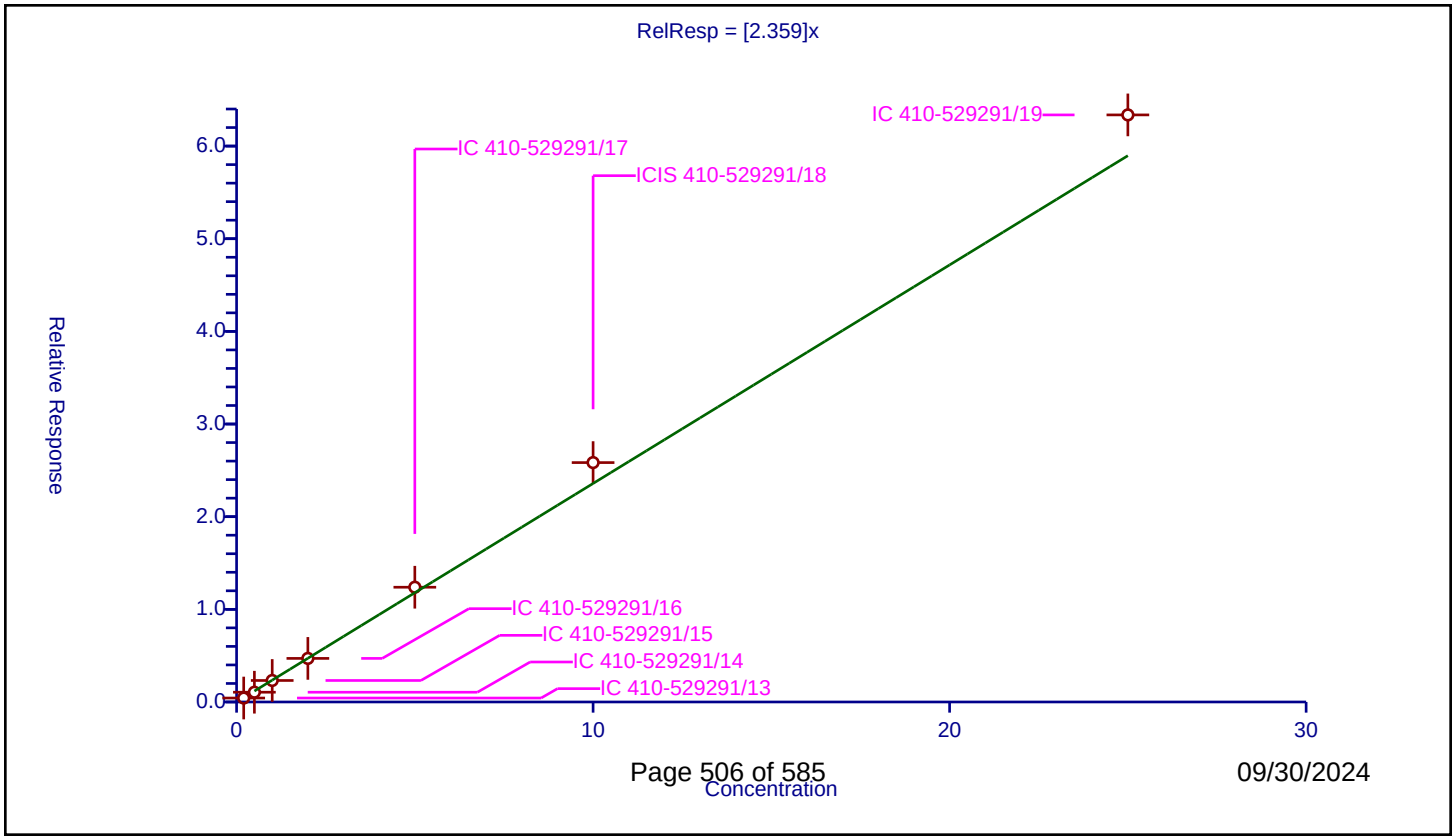
Curve Coefficients

Intercept:	0
Slope:	2.359

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.426216	10.0	859400.0	2.13108	Y
2	IC 410-529291/14	0.5	1.054668	10.0	858934.0	2.109336	Y
3	IC 410-529291/15	1.0	2.321138	10.0	872460.0	2.321138	Y
4	IC 410-529291/16	2.0	4.705048	10.0	872633.0	2.352524	Y
5	IC 410-529291/17	5.0	12.386553	10.0	910535.0	2.477311	Y
6	ICIS 410-529291/18	10.0	25.83935	10.0	922380.0	2.583935	Y
7	IC 410-529291/19	25.0	63.364822	10.0	959394.0	2.534593	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

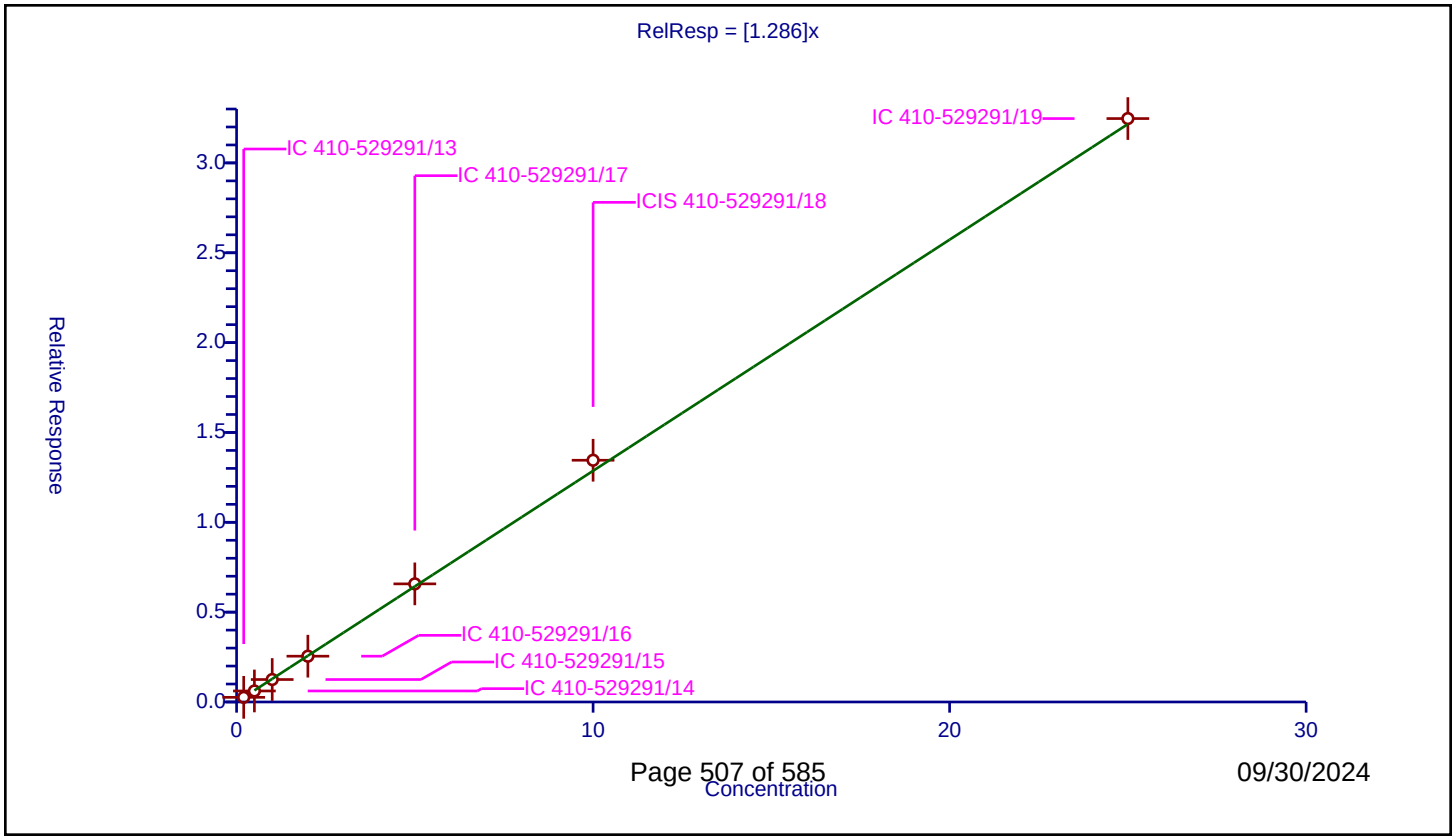
Curve Coefficients

Intercept:	0
Slope:	1.286

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.258541	10.0	859400.0	1.292704	Y
2	IC 410-529291/14	0.5	0.614087	10.0	858934.0	1.228174	Y
3	IC 410-529291/15	1.0	1.250842	10.0	872460.0	1.250842	Y
4	IC 410-529291/16	2.0	2.548666	10.0	872633.0	1.274333	Y
5	IC 410-529291/17	5.0	6.573147	10.0	910535.0	1.314629	Y
6	ICIS 410-529291/18	10.0	13.453685	10.0	922380.0	1.345369	Y
7	IC 410-529291/19	25.0	32.468089	10.0	959394.0	1.298724	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

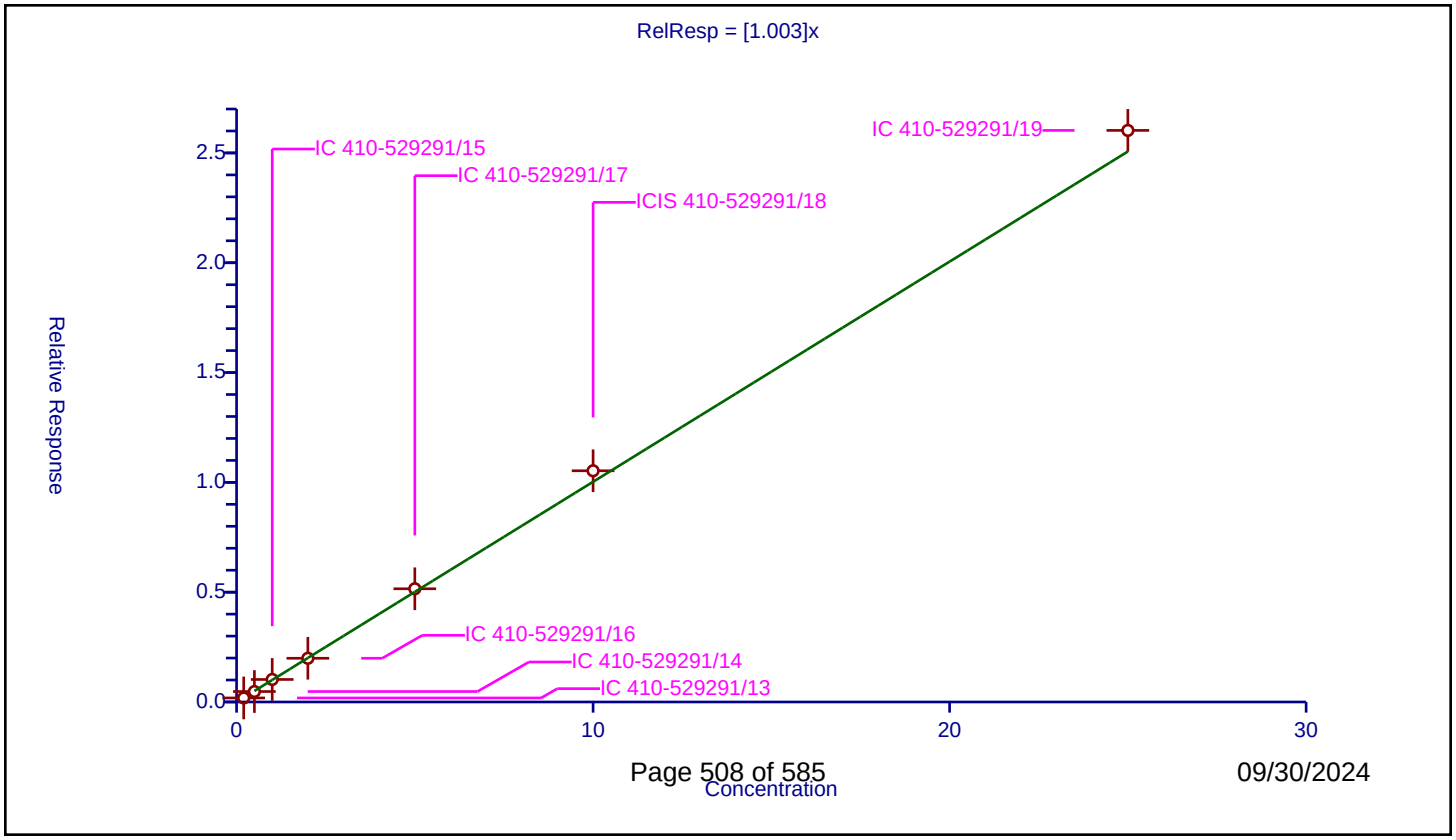
Curve Coefficients

Intercept:	0
Slope:	1.003

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.183884	10.0	859400.0	0.919421	Y
2	IC 410-529291/14	0.5	0.476381	10.0	858934.0	0.952762	Y
3	IC 410-529291/15	1.0	1.025938	10.0	872460.0	1.025938	Y
4	IC 410-529291/16	2.0	1.990333	10.0	872633.0	0.995166	Y
5	IC 410-529291/17	5.0	5.154794	10.0	910535.0	1.030959	Y
6	ICIS 410-529291/18	10.0	10.527733	10.0	922380.0	1.052773	Y
7	IC 410-529291/19	25.0	26.025574	10.0	959394.0	1.041023	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

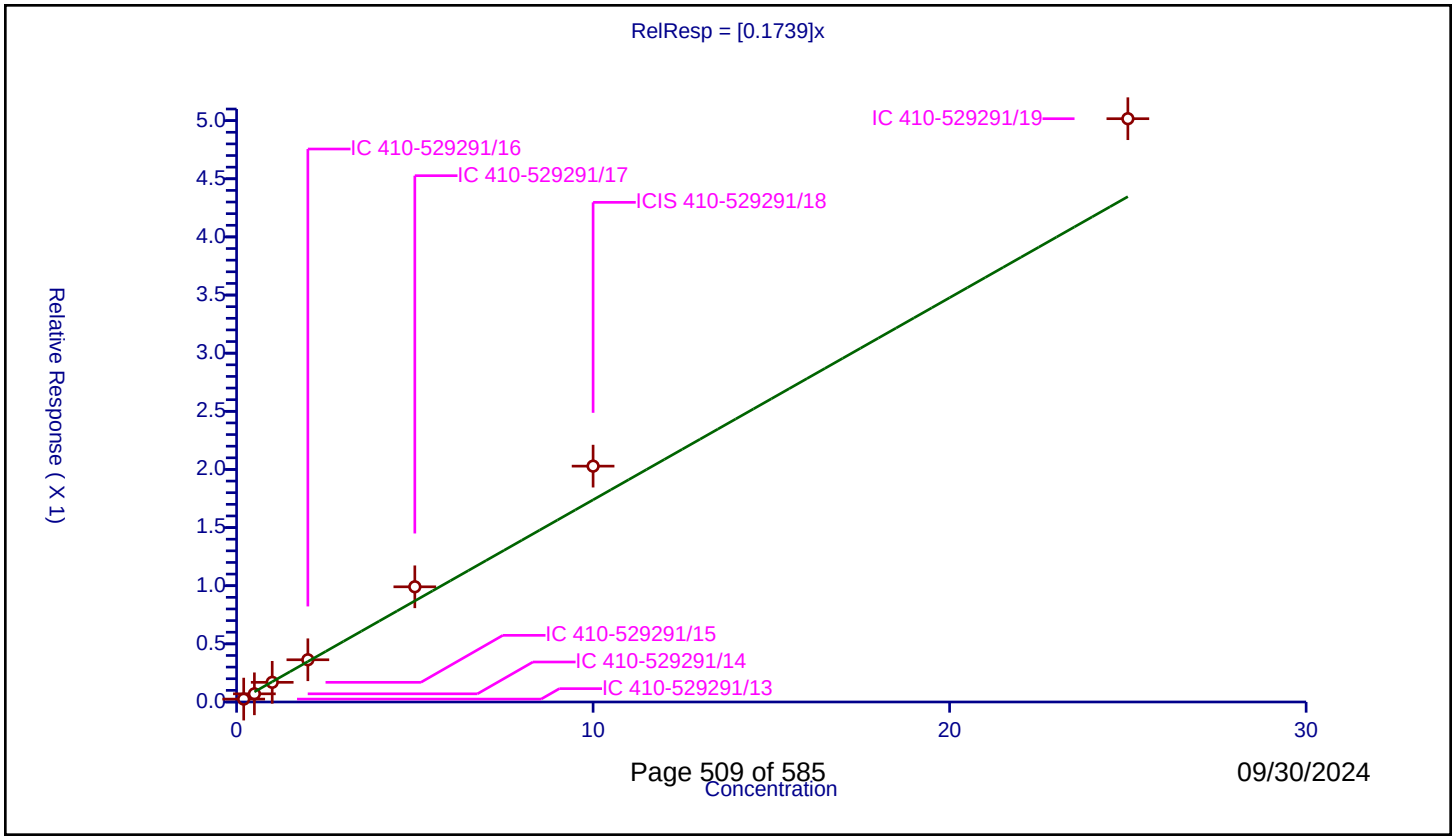
Curve Coefficients

Intercept:	0
Slope:	0.1739

Error Coefficients

Relative Standard Deviation:	17.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.024773	10.0	859400.0	0.123865	Y
2	IC 410-529291/14	0.5	0.070331	10.0	858934.0	0.140663	Y
3	IC 410-529291/15	1.0	0.169188	10.0	872460.0	0.169188	Y
4	IC 410-529291/16	2.0	0.363223	10.0	872633.0	0.181611	Y
5	IC 410-529291/17	5.0	0.990769	10.0	910535.0	0.198154	Y
6	ICIS 410-529291/18	10.0	2.028459	10.0	922380.0	0.202846	Y
7	IC 410-529291/19	25.0	5.016761	10.0	959394.0	0.20067	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

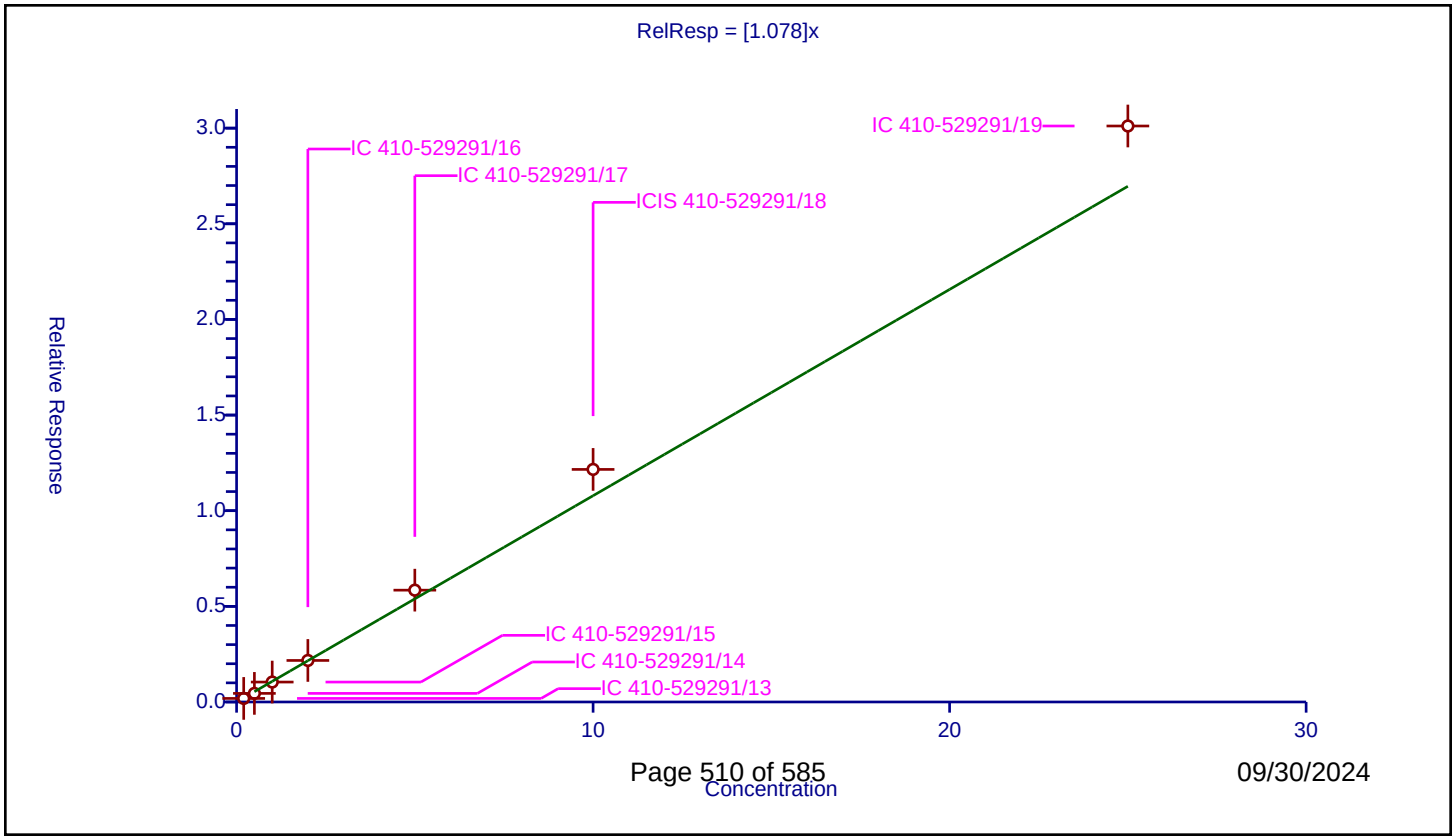
Curve Coefficients

Intercept:	0
Slope:	1.078

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.186514	10.0	859400.0	0.932569	Y
2	IC 410-529291/14	0.5	0.449522	10.0	858934.0	0.899045	Y
3	IC 410-529291/15	1.0	1.041927	10.0	872460.0	1.041927	Y
4	IC 410-529291/16	2.0	2.170901	10.0	872633.0	1.085451	Y
5	IC 410-529291/17	5.0	5.845926	10.0	910535.0	1.169185	Y
6	ICIS 410-529291/18	10.0	12.159186	10.0	922380.0	1.215919	Y
7	IC 410-529291/19	25.0	30.112342	10.0	959394.0	1.204494	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

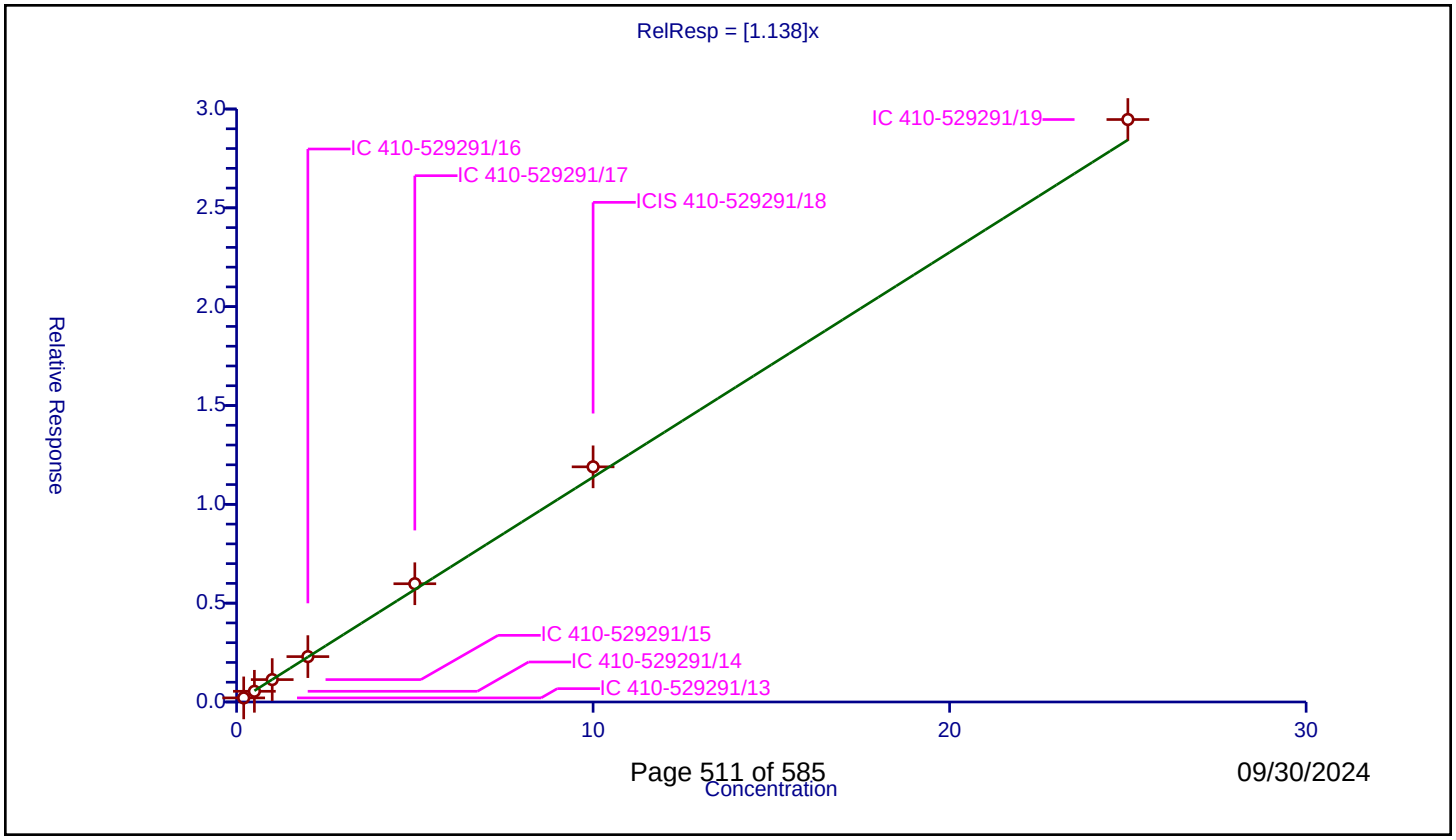
Curve Coefficients

Intercept:	0
Slope:	1.138

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.2069	10.0	859400.0	1.034501	Y
2	IC 410-529291/14	0.5	0.541101	10.0	858934.0	1.082202	Y
3	IC 410-529291/15	1.0	1.133175	10.0	872460.0	1.133175	Y
4	IC 410-529291/16	2.0	2.295581	10.0	872633.0	1.147791	Y
5	IC 410-529291/17	5.0	5.982571	10.0	910535.0	1.196514	Y
6	ICIS 410-529291/18	10.0	11.897016	10.0	922380.0	1.189702	Y
7	IC 410-529291/19	25.0	29.4688	10.0	959394.0	1.178752	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

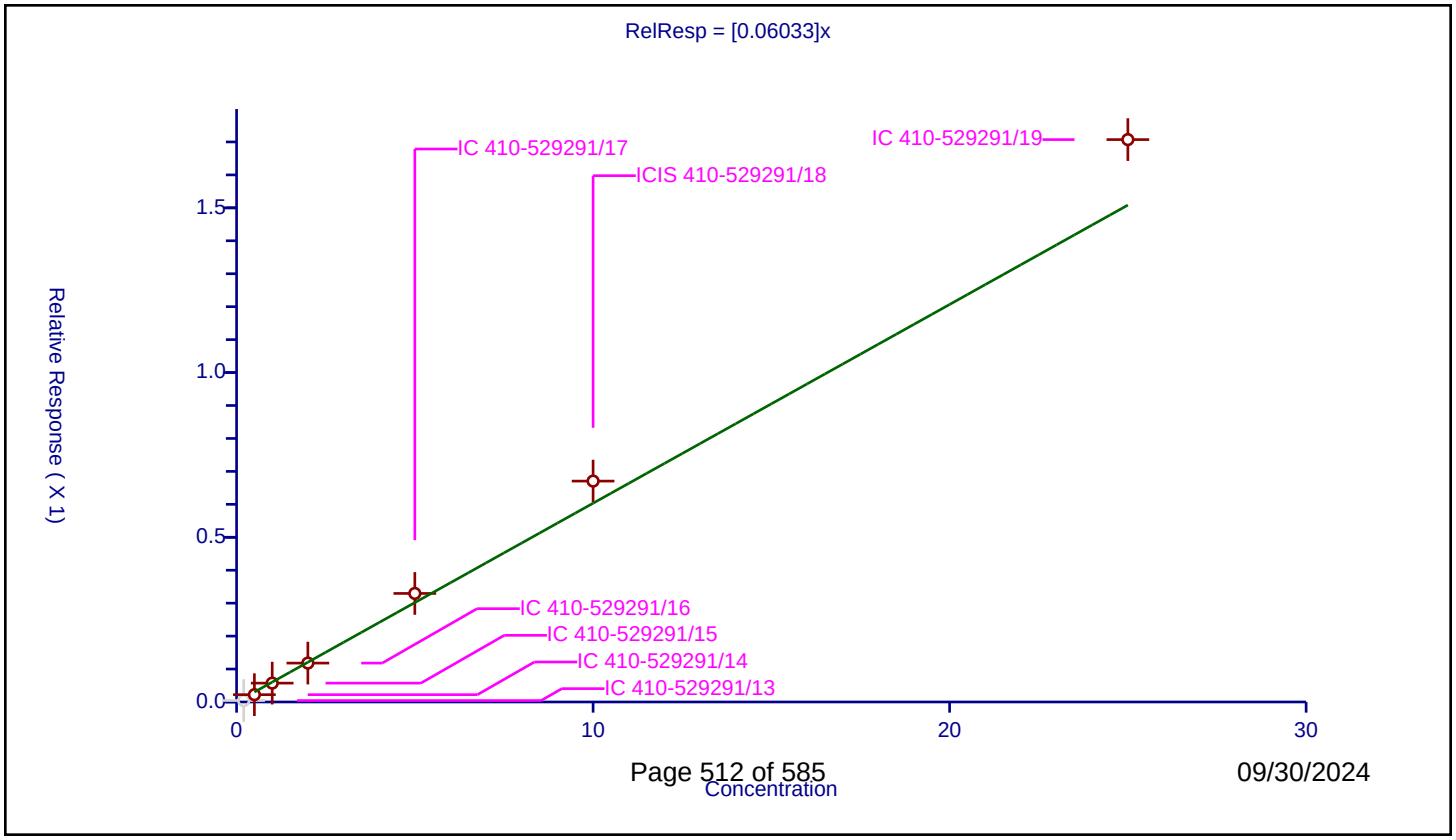
Curve Coefficients

Intercept:	0
Slope:	0.06033

Error Coefficients

Relative Standard Deviation:	14.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.004398	10.0	859400.0	0.021992	N
2	IC 410-529291/14	0.5	0.022214	10.0	858934.0	0.044427	Y
3	IC 410-529291/15	1.0	0.057286	10.0	872460.0	0.057286	Y
4	IC 410-529291/16	2.0	0.118091	10.0	872633.0	0.059045	Y
5	IC 410-529291/17	5.0	0.329521	10.0	910535.0	0.065904	Y
6	ICIS 410-529291/18	10.0	0.670559	10.0	922380.0	0.067056	Y
7	IC 410-529291/19	25.0	1.70714	10.0	959394.0	0.068286	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

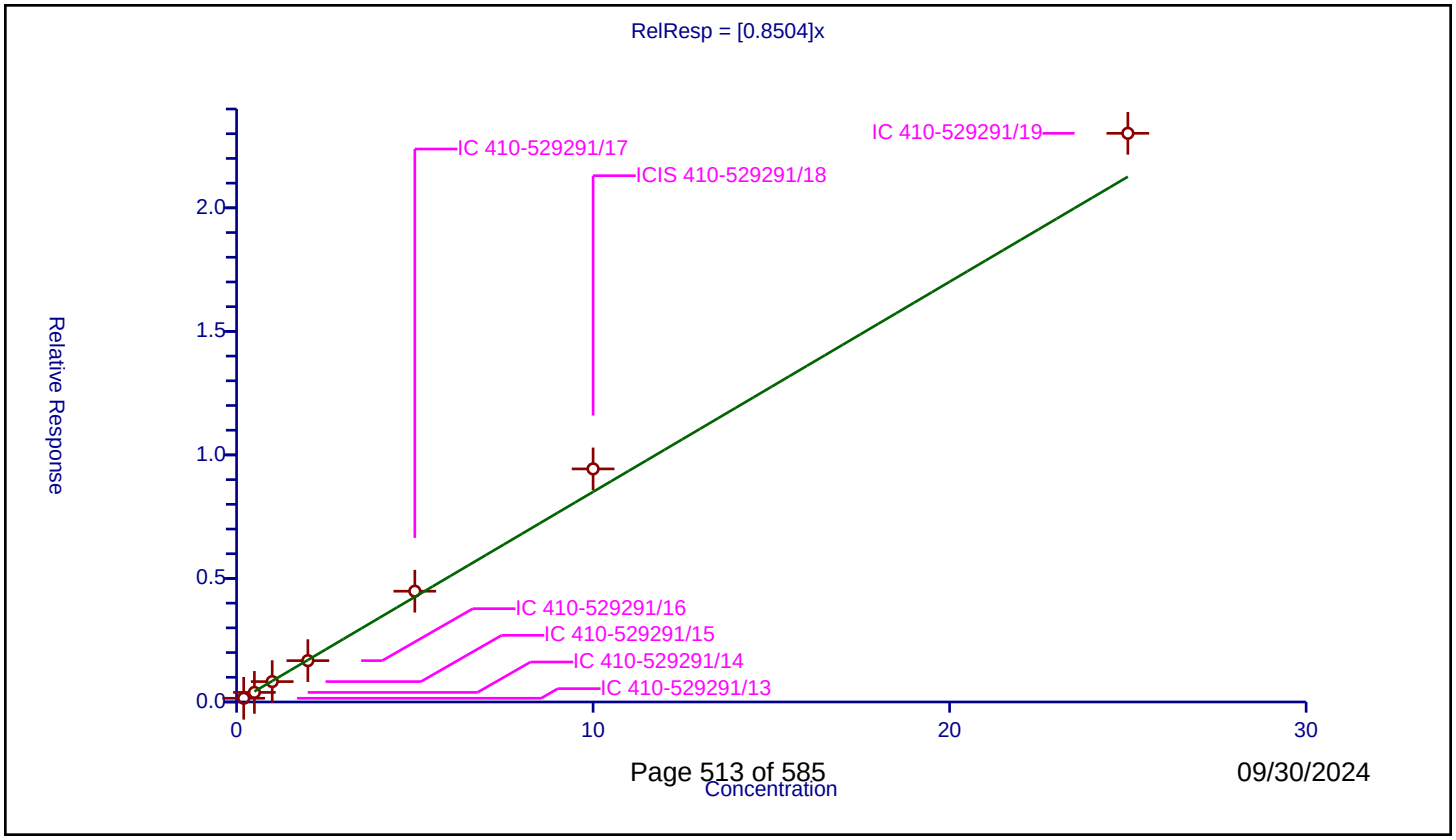
Curve Coefficients

Intercept:	0
Slope:	0.8504

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.150931	10.0	859400.0	0.754654	Y
2	IC 410-529291/14	0.5	0.387504	10.0	858934.0	0.775007	Y
3	IC 410-529291/15	1.0	0.825344	10.0	872460.0	0.825344	Y
4	IC 410-529291/16	2.0	1.673728	10.0	872633.0	0.836864	Y
5	IC 410-529291/17	5.0	4.484133	10.0	910535.0	0.896827	Y
6	ICIS 410-529291/18	10.0	9.433986	10.0	922380.0	0.943399	Y
7	IC 410-529291/19	25.0	23.016884	10.0	959394.0	0.920675	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

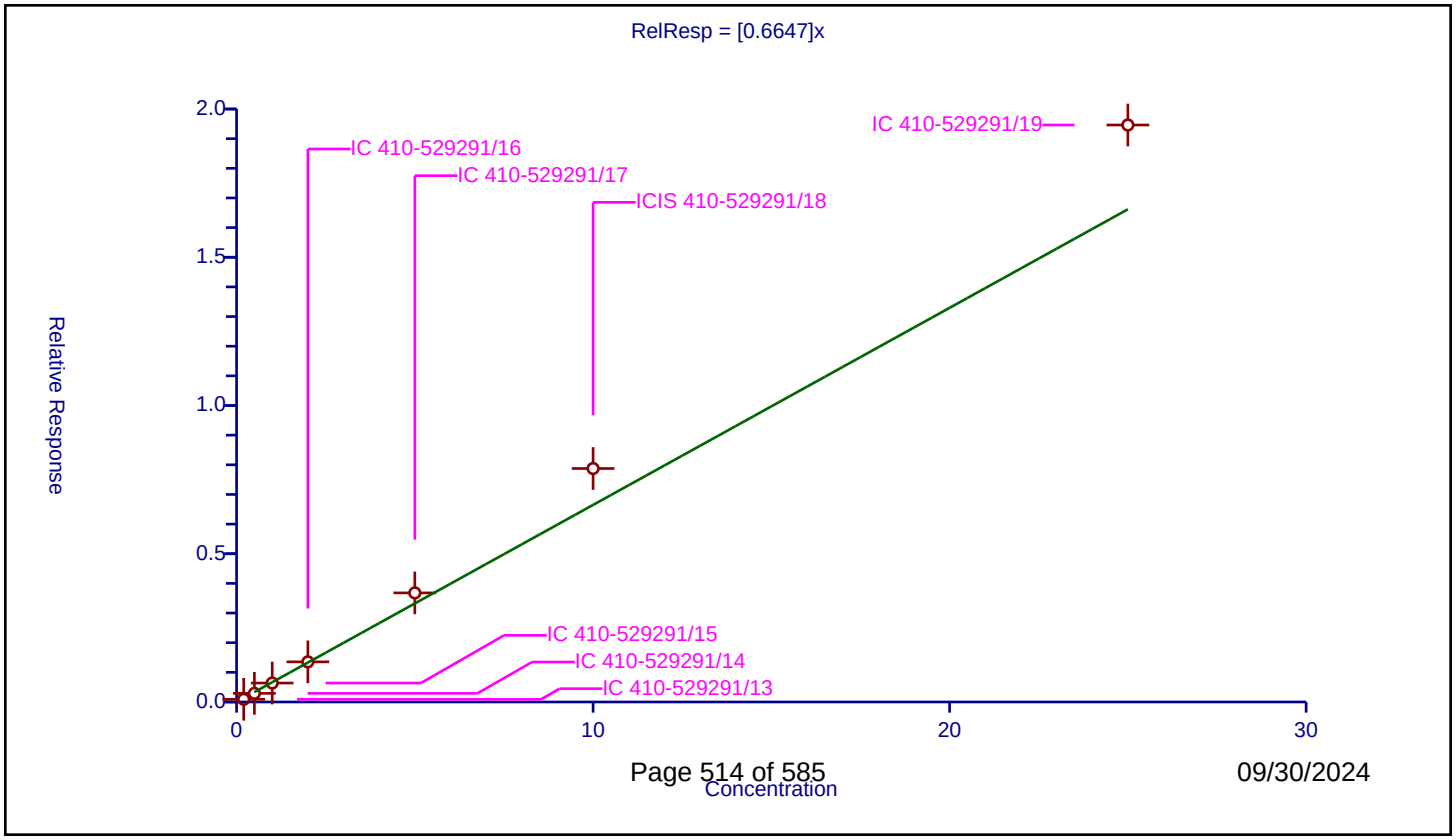
Curve Coefficients

Intercept:	0
Slope:	0.6647

Error Coefficients

Relative Standard Deviation:	17.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.090854	10.0	859400.0	0.45427	Y
2	IC 410-529291/14	0.5	0.290779	10.0	858934.0	0.581558	Y
3	IC 410-529291/15	1.0	0.638791	10.0	872460.0	0.638791	Y
4	IC 410-529291/16	2.0	1.353169	10.0	872633.0	0.676585	Y
5	IC 410-529291/17	5.0	3.678793	10.0	910535.0	0.735759	Y
6	ICIS 410-529291/18	10.0	7.87477	10.0	922380.0	0.787477	Y
7	IC 410-529291/19	25.0	19.460243	10.0	959394.0	0.77841	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

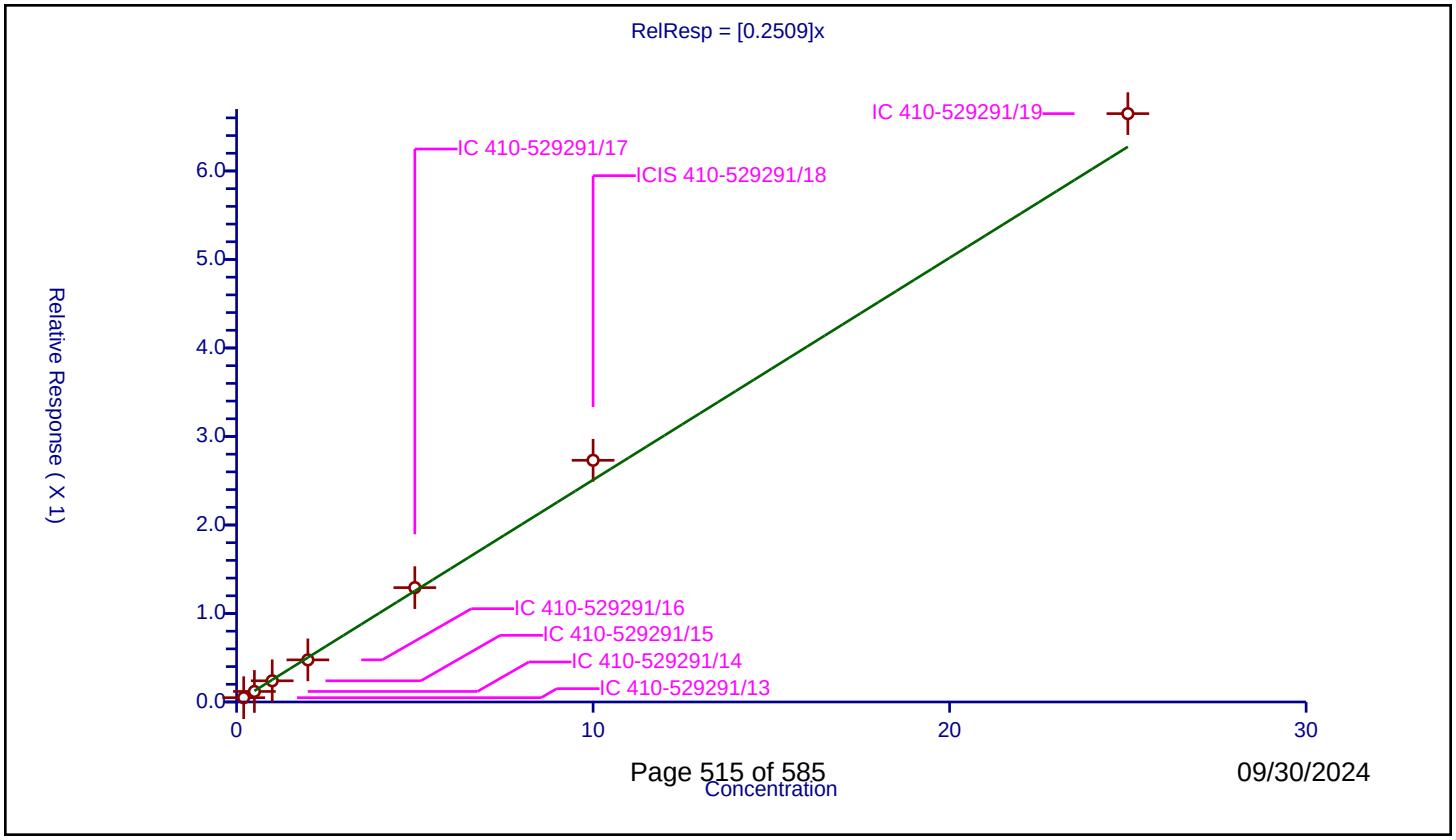
Curve Coefficients

Intercept:	0
Slope:	0.2509

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.048592	10.0	859400.0	0.24296	Y
2	IC 410-529291/14	0.5	0.119311	10.0	858934.0	0.238621	Y
3	IC 410-529291/15	1.0	0.239507	10.0	872460.0	0.239507	Y
4	IC 410-529291/16	2.0	0.476008	10.0	872633.0	0.238004	Y
5	IC 410-529291/17	5.0	1.292108	10.0	910535.0	0.258422	Y
6	ICIS 410-529291/18	10.0	2.730838	10.0	922380.0	0.273084	Y
7	IC 410-529291/19	25.0	6.647821	10.0	959394.0	0.265913	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

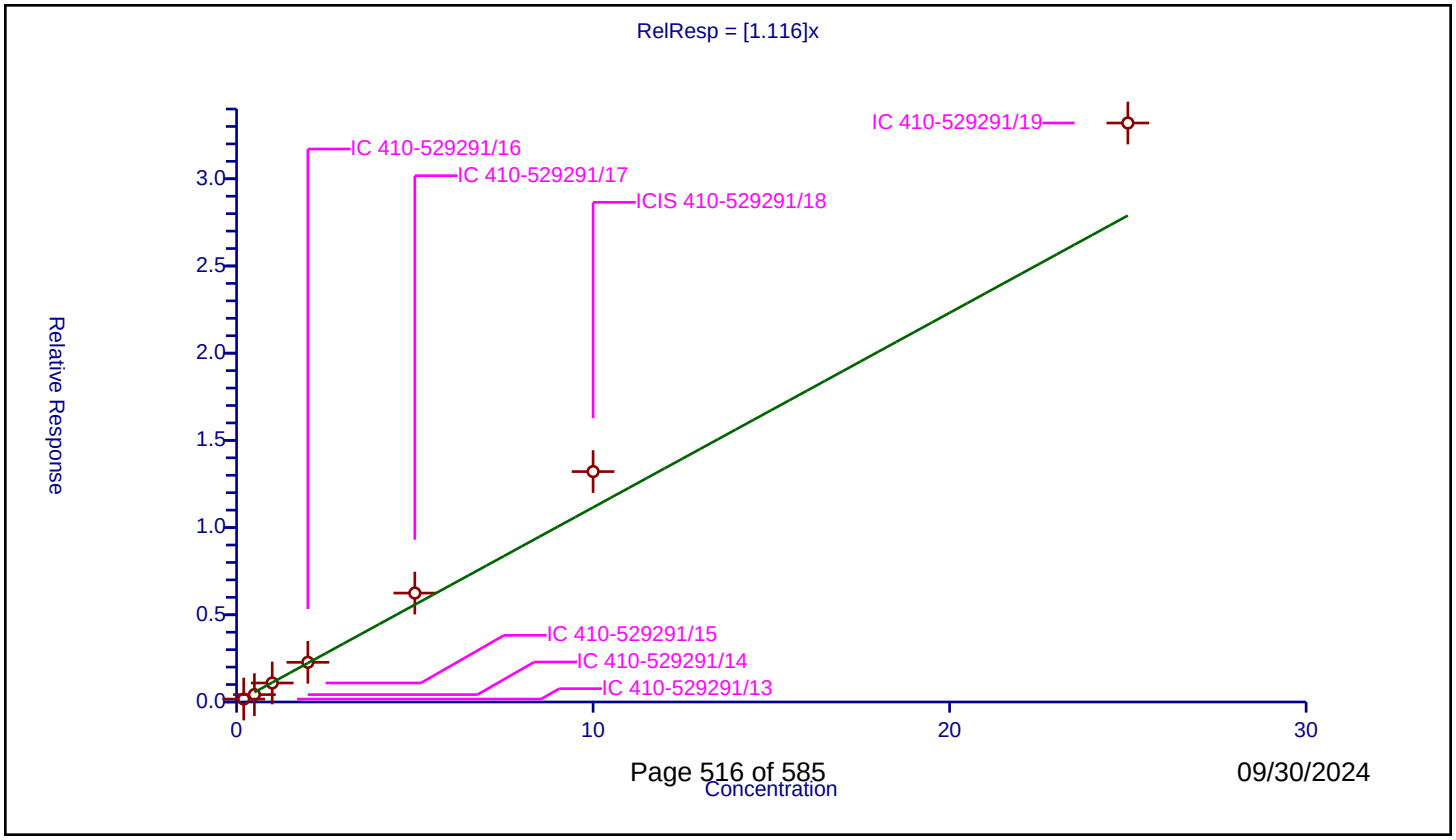
Curve Coefficients

Intercept:	0
Slope:	1.116

Error Coefficients

Relative Standard Deviation:	18.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.167687	10.0	859400.0	0.838434	Y
2	IC 410-529291/14	0.5	0.422989	10.0	858934.0	0.845979	Y
3	IC 410-529291/15	1.0	1.089907	10.0	872460.0	1.089907	Y
4	IC 410-529291/16	2.0	2.274794	10.0	872633.0	1.137397	Y
5	IC 410-529291/17	5.0	6.244988	10.0	910535.0	1.248998	Y
6	ICIS 410-529291/18	10.0	13.211908	10.0	922380.0	1.321191	Y
7	IC 410-529291/19	25.0	33.197821	10.0	959394.0	1.327913	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

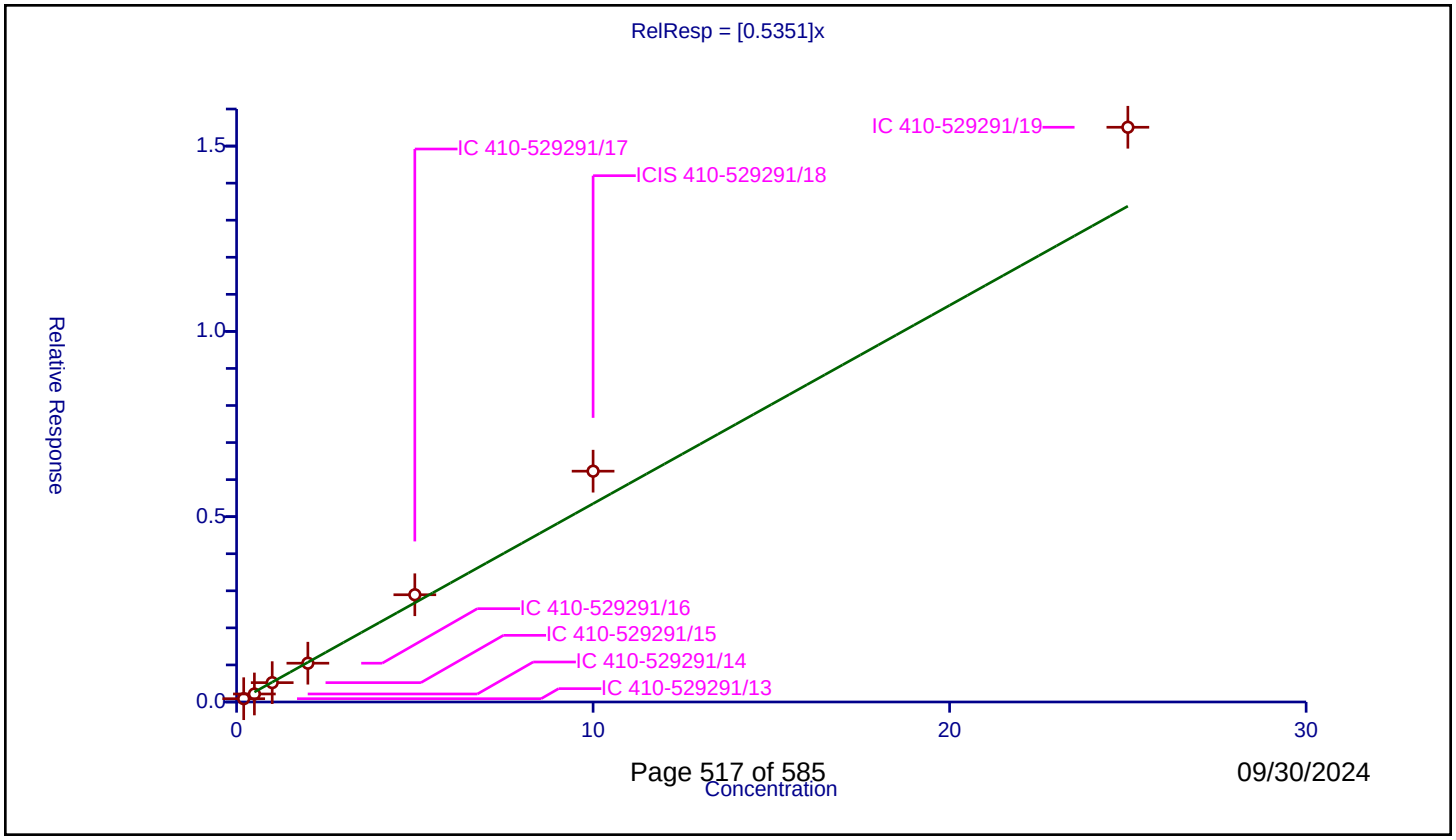
Curve Coefficients

Intercept:	0
Slope:	0.5351

Error Coefficients

Relative Standard Deviation:	14.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.089109	10.0	859400.0	0.445543	Y
2	IC 410-529291/14	0.5	0.216559	10.0	858934.0	0.433118	Y
3	IC 410-529291/15	1.0	0.522282	10.0	872460.0	0.522282	Y
4	IC 410-529291/16	2.0	1.046385	10.0	872633.0	0.523192	Y
5	IC 410-529291/17	5.0	2.893837	10.0	910535.0	0.578767	Y
6	ICIS 410-529291/18	10.0	6.228106	10.0	922380.0	0.622811	Y
7	IC 410-529291/19	25.0	15.508154	10.0	959394.0	0.620326	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Lab Sample ID: ICV 410-529291/21 Calibration Date: 07/17/2024 20:16

Instrument ID: 19094 Calib Start Date: 07/17/2024 17:30

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/17/2024 19:35

Lab File ID: HL17X20.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	0.2545	0.2280	0.1000	4.48	5.00	-10.4	30.0
Chloromethane	Ave	0.3177	0.3082	0.1000	4.85	5.00	-3.0	30.0
1,3-Butadiene	Ave	0.2719	0.2414		4.44	5.00	-11.2	30.0
Vinyl chloride	Ave	0.2912	0.2998	0.1000	5.15	5.00	3.0	30.0
Bromomethane	Ave	0.2040	0.2077	0.1000	5.09	5.00	1.8	30.0
Chloroethane	Ave	0.1706	0.1797	0.1000	5.27	5.00	5.3	30.0
Dichlorofluoromethane	Ave	0.4692	0.4298		4.58	5.00	-8.4	30.0
Trichlorofluoromethane	Ave	0.3505	0.3448	0.1000	4.92	5.00	-1.6	30.0
Ethyl ether	Ave	0.1321	0.1572		5.93	4.98	19.0	30.0
Freon 123a	Ave	0.2604	0.2717		5.22	5.00	4.3	30.0
Acrolein	Ave	2.126	2.359		41.7	37.6	10.9	30.0
1,1-Dichloroethene	Ave	0.1805	0.2201	0.1000	6.10	5.00	21.9	30.0
Acetone	Ave	2.661	2.729	0.1000	64.1	62.5	2.5	30.0
Freon 113	Ave	0.1775	0.1856	0.1000	5.23	5.00	4.6	30.0
Methyl iodide	Ave	0.3583	0.3946		5.51	5.00	10.1	30.0
Ethyl bromide	Ave	0.1605	0.1590		4.67	4.72	-0.9	30.0
Carbon disulfide	Ave	0.5143	0.5812	0.1000	5.65	5.00	13.0	30.0
Methyl acetate	Ave	7.210	7.923	0.1000	5.49	5.00	9.9	30.0
Allyl chloride	Ave	0.3140	0.3339		5.32	5.00	6.3	30.0
Methylene Chloride	Ave	0.2248	0.2328	0.1000	5.18	5.00	3.6	30.0
t-Butyl alcohol	Ave	0.7313	0.8938		61.1	50.0	22.2	30.0
Acrylonitrile	Ave	3.604	4.108		28.5	25.0	14.0	30.0
Methyl tert-butyl ether	Ave	0.4958	0.5091	0.1000	5.13	5.00	2.7	30.0
trans-1,2-Dichloroethene	Ave	0.2110	0.2404	0.1000	5.70	5.00	13.9	30.0
n-Hexane	Ave	0.2490	0.2788		5.60	5.00	11.9	30.0
1,1-Dichloroethane	Ave	0.4033	0.4514	0.2000	5.60	5.00	11.9	30.0
di-Isopropyl ether	Ave	0.6652	0.6995		5.26	5.00	5.2	30.0
2-Chloro-1,3-butadiene	Ave	0.3187	0.3491		5.48	5.00	9.5	30.0
Ethyl t-butyl ether	Ave	0.6184	0.6643		5.37	5.00	7.4	30.0
2-Butanone (MEK)	Ave	4.394	5.121	0.1000	72.8	62.5	16.5	30.0
cis-1,2-Dichloroethene	Ave	0.2403	0.2670	0.1000	5.55	5.00	11.1	30.0
2,2-Dichloropropane	Ave	0.3347	0.3615		5.40	5.00	8.0	30.0
Propionitrile	Lin1		1.359		41.2	37.5	10.0	30.0
Methacrylonitrile	Ave	5.033	5.688		42.4	37.5	13.0	30.0
Bromochloromethane	Ave	0.1015	0.1097		5.40	5.00	8.0	30.0
Tetrahydrofuran	Ave	1.293	1.505		29.1	25.0	16.4	30.0
Chloroform	Ave	0.4003	0.4327	0.2000	5.40	5.00	8.1	30.0
1,1,1-Trichloroethane	Ave	0.3414	0.3852	0.1000	5.64	5.00	12.9	30.0
Cyclohexane	Ave	0.3381	0.3660	0.1000	5.41	5.00	8.2	30.0
1,1-Dichloropropene	Ave	0.3038	0.3398		5.59	5.00	11.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Lab Sample ID: ICV 410-529291/21 Calibration Date: 07/17/2024 20:16

Instrument ID: 19094 Calib Start Date: 07/17/2024 17:30

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/17/2024 19:35

Lab File ID: HL17X20.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	0.2975	0.3364	0.1000	5.66	5.00	13.1	30.0
Isobutyl alcohol	Ave	0.2352	0.2413		128	125	2.6	30.0
Benzene	Ave	0.9210	1.017	0.5000	5.52	5.00	10.4	30.0
1,2-Dichloroethane	Ave	0.2421	0.2542	0.1000	5.25	5.00	5.0	30.0
t-Amyl methyl ether	Ave	0.5458	0.5757		5.27	5.00	5.5	30.0
n-Heptane	Ave	0.2544	0.2653		5.21	5.00	4.3	30.0
n-Butanol	Lin		0.2062		273	250	9.4	30.0
Trichloroethene	Ave	0.2426	0.2643	0.2000	5.45	5.00	9.0	30.0
Methylcyclohexane	Ave	0.3437	0.3762	0.1000	5.47	5.00	9.5	30.0
1,2-Dichloropropane	Ave	0.2327	0.2525	0.1000	5.43	5.00	8.5	30.0
Methyl methacrylate	Ave	9.456	10.32		5.46	5.00	9.2	30.0
1,4-Dioxane	Qua		0.0843	0.0050	252	125	101.7*	30.0
Dibromomethane	Ave	0.1082	0.1128		5.22	5.00	4.3	30.0
Bromodichloromethane	Ave	0.2813	0.3026	0.2000	5.38	5.00	7.6	30.0
2-Nitropropane	Ave	3.095	2.996		4.84	5.00	-3.2	30.0
1-Bromo-2-chloroethane	Ave	0.2047	0.2489		6.08	5.00	21.6	30.0
cis-1,3-Dichloropropene	Ave	0.3425	0.3547	0.2000	5.18	5.00	3.5	30.0
4-Methyl-2-pentanone (MIBK)	Ave	12.29	13.77	0.1000	70.1	62.5	12.1	30.0
Toluene	Ave	0.7905	0.8513	0.4000	5.38	5.00	7.7	30.0
trans-1,3-Dichloropropene	Ave	0.3687	0.3977	0.1000	5.39	5.00	7.9	30.0
Ethyl methacrylate	Ave	0.2666	0.2915		5.47	5.00	9.4	30.0
1,1,2-Trichloroethane	Ave	0.2102	0.2187	0.1000	5.20	5.00	4.0	30.0
Tetrachloroethene	Ave	0.3673	0.4052	0.2000	5.52	5.00	10.3	30.0
1,3-Dichloropropane	Ave	0.3572	0.3804		5.33	5.00	6.5	30.0
2-Hexanone	Ave	8.125	9.290	0.1000	71.5	62.5	14.3	30.0
Dibromochloromethane	Ave	0.2595	0.2786		5.37	5.00	7.4	30.0
1,2-Dibromoethane (EDB)	Ave	0.1953	0.2065	0.1000	5.29	5.00	5.7	30.0
1-Chlorohexane	Ave	0.4410	0.4430		5.02	5.00	0.5	30.0
Chlorobenzene	Ave	0.8684	0.9323	0.5000	5.37	5.00	7.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3036	0.3269		5.38	5.00	7.7	30.0
Ethylbenzene	Ave	1.534	1.680	0.1000	5.48	5.00	9.6	30.0
m&p-Xylene	Ave	0.5824	0.6390	0.1000	11.0	10.0	9.7	30.0
o-Xylene	Ave	0.5747	0.6142	0.3000	5.34	5.00	6.9	30.0
Styrene	Ave	0.8908	1.003	0.3000	5.63	5.00	12.6	30.0
Bromoform	Ave	0.1629	0.1728	0.1000	5.30	5.00	6.1	30.0
Isopropylbenzene	Ave	1.386	1.646	0.1000	5.94	5.00	18.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4525	0.4710	0.3000	5.20	5.00	4.1	30.0
Bromobenzene	Ave	0.6586	0.6961		5.28	5.00	5.7	30.0
trans-1,4-Dichloro-2-butene	Ave	4.924	5.441		27.6	25.0	10.5	30.0
1,2,3-Trichloropropane	Ave	0.1171	0.1256		5.36	5.00	7.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Lab Sample ID: ICV 410-529291/21 Calibration Date: 07/17/2024 20:16

Instrument ID: 19094 Calib Start Date: 07/17/2024 17:30

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/17/2024 19:35

Lab File ID: HL17X20.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Propylbenzene	Ave	3.148	3.523		5.60	5.00	11.9	30.0
2-Chlorotoluene	Ave	0.6448	0.6981		5.41	5.00	8.3	30.0
1,3,5-Trimethylbenzene	Ave	2.214	2.400		5.42	5.00	8.4	30.0
4-Chlorotoluene	Ave	0.6526	0.7210		5.52	5.00	10.5	30.0
tert-Butylbenzene	Ave	0.4949	0.5688		5.75	5.00	14.9	30.0
Pentachloroethane	Ave	0.3446	0.4339		6.30	5.00	25.9	30.0
1,2,4-Trimethylbenzene	Ave	2.215	2.432		5.49	5.00	9.8	30.0
sec-Butylbenzene	Ave	2.733	3.018		5.52	5.00	10.4	30.0
1,3-Dichlorobenzene	Ave	1.244	1.344	0.6000	5.40	5.00	8.0	30.0
p-Isopropyltoluene	Ave	2.359	2.581		5.47	5.00	9.4	30.0
1,4-Dichlorobenzene	Ave	1.286	1.366	0.5000	5.31	5.00	6.2	30.0
1,2,3-Trimethylbenzene	Ave	1.003	1.029		5.13	5.00	2.6	30.0
Benzyl chloride	Ave	0.1739	0.1863		5.36	5.00	7.2	30.0
n-Butylbenzene	Ave	1.078	1.219		5.65	5.00	13.1	30.0
1,2-Dichlorobenzene	Ave	1.138	1.228	0.4000	5.40	5.00	7.9	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0603	0.0634	0.0500	5.25	5.00	5.0	30.0
1,3,5-Trichlorobenzene	Ave	0.8504	0.9662		5.68	5.00	13.6	30.0
1,2,4-Trichlorobenzene	Ave	0.6647	0.7675	0.2000	5.77	5.00	15.5	30.0
Hexachlorobutadiene	Ave	0.2509	0.3011		6.00	5.00	20.0	30.0
Naphthalene	Ave	1.116	1.257		5.63	5.00	12.7	30.0
1,2,3-Trichlorobenzene	Ave	0.5351	0.5973		5.58	5.00	11.6	30.0
Dibromofluoromethane (Surr)	Ave	0.2449	0.2415		9.86	10.0	-1.4	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0500	0.0485		9.70	10.0	-3.0	30.0
Toluene-d8 (Surr)	Ave	1.301	1.308		10.1	10.0	0.6	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4856	0.4843		9.97	10.0	-0.3	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X20.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 17-Jul-2024 20:16:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0119602-021
Misc. Info.: ICV
Operator ID: knk41612 Instrument ID: 19094
Sublist:

Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jul-2024 22:28:28 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1666

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.873	1.879	-0.006	99	247428	5.00	4.48	
5 Chloromethane	50	2.069	2.074	-0.005	99	334559	5.00	4.85	
7 Butadiene	39	2.160	2.166	-0.006	91	262060	5.00	4.44	
6 Vinyl chloride	62	2.172	2.178	-0.006	98	325441	5.00	5.15	
9 Bromomethane	94	2.501	2.513	-0.012	92	225462	5.00	5.09	
10 Chloroethane	64	2.544	2.550	-0.006	100	195011	5.00	5.27	
11 Dichlorofluoromethane	67	2.757	2.769	-0.012	97	466495	5.00	4.58	
12 Trichlorofluoromethane	101	2.867	2.867	0.000	96	374230	5.00	4.92	
14 Ethyl ether	59	3.056	3.056	0.000	91	170150	4.98	5.93	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.135	3.135	0.000	93	294880	5.00	5.22	
16 Acrolein	56	3.221	3.215	0.007	100	184971	37.6	41.7	
17 1,1-Dichloroethene	96	3.343	3.349	-0.006	98	238852	5.00	6.10	
19 Acetone	43	3.367	3.367	0.000	100	355957	62.5	64.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.379	3.391	-0.012	90	201467	5.00	5.23	
21 Iodomethane	142	3.526	3.532	-0.006	98	428350	5.00	5.51	
22 Ethyl bromide	108	3.556	3.556	0.000	98	162789	4.72	4.67	
23 Carbon disulfide	76	3.635	3.635	0.000	99	630866	5.00	5.65	
24 Methyl acetate	43	3.769	3.769	0.000	25	82687	5.00	5.49	M
26 3-Chloro-1-propene	41	3.788	3.788	0.000	91	362437	5.00	5.32	
27 Methylene Chloride	84	3.958	3.964	-0.006	91	252673	5.00	5.18	
* 28 t-Butyl alcohol-d10 (IS)	65	3.958	3.970	-0.012	97	104362	50.0	50.0	
29 2-Methyl-2-propanol	59	4.074	4.080	-0.006	97	93276	50.0	61.1	
31 Acrylonitrile	53	4.275	4.281	-0.006	99	214339	25.0	28.5	
32 Methyl tert-butyl ether	73	4.342	4.348	-0.006	95	552550	5.00	5.13	
33 trans-1,2-Dichloroethene	96	4.355	4.361	-0.006	99	260969	5.00	5.70	
34 Hexane	57	4.781	4.787	-0.006	92	302615	5.00	5.60	
36 1,1-Dichloroethane	63	5.007	5.013	-0.006	96	490017	5.00	5.60	
37 Isopropyl ether	45	5.074	5.074	0.000	94	759222	5.00	5.26	
38 2-Chloro-1,3-butadiene	53	5.123	5.129	-0.006	91	378897	5.00	5.48	
40 Tert-butyl ethyl ether	59	5.611	5.616	-0.006	98	721075	5.00	5.37	
41 2-Butanone (MEK)	43	5.824	5.824	0.000	99	668055	62.5	72.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 cis-1,2-Dichloroethene	96	5.848	5.854	-0.006	83	289767	5.00	5.55	
43 2,2-Dichloropropane	77	5.860	5.866	-0.006	87	392402	5.00	5.40	
44 Propionitrile	54	5.915	5.903	0.012	97	106369	37.5	41.2	
47 Methacrylonitrile	67	6.123	6.122	0.001	92	445191	37.5	42.4	
48 Chlorobromomethane	128	6.190	6.190	0.000	95	119082	5.00	5.40	
49 Tetrahydrofuran	71	6.208	6.208	0.000	78	78527	25.0	29.1	
50 Chloroform	83	6.342	6.342	0.000	93	469613	5.00	5.40	
$ 52 Dibromofluoromethane (Surr)	113	6.555	6.561	-0.006	94	524164	10.0	9.86	
53 1,1,1-Trichloroethane	97	6.568	6.574	-0.006	98	418147	5.00	5.64	
54 Cyclohexane	56	6.677	6.677	0.000	90	397235	5.00	5.41	
56 Carbon tetrachloride	117	6.787	6.787	0.000	95	365183	5.00	5.66	
55 1,1-Dichloropropene	75	6.787	6.793	-0.006	96	368849	5.00	5.59	
57 Isobutyl alcohol	41	6.946	6.945	0.001	95	62958	125.0	128.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.025	-0.006	89	105345	10.0	9.70	
59 Benzene	78	7.055	7.055	0.000	96	1103742	5.00	5.52	
60 1,2-Dichloroethane	62	7.122	7.128	-0.006	98	275911	5.00	5.25	
63 Tert-amyl methyl ether	73	7.250	7.256	-0.006	99	624868	5.00	5.27	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	98	2170862	10.0	10.0	
65 n-Heptane	43	7.482	7.482	0.000	92	287985	5.00	5.21	
67 n-Butanol	56	7.854	7.848	0.006	88	107609	250.0	273.5	
68 Trichloroethene	95	7.952	7.957	-0.005	98	286890	5.00	5.45	
69 Methylcyclohexane	83	8.262	8.268	-0.006	93	408391	5.00	5.47	
70 1,2-Dichloropropane	63	8.287	8.287	0.000	87	274066	5.00	5.43	
71 2-ethoxy-2-methyl butane	87	8.299	8.305	-0.006	92	378090	5.00	5.10	
72 Methyl methacrylate	69	8.384	8.378	0.006	89	107715	5.00	5.46	
73 1,4-Dioxane	88	8.390	8.390	0.000	32	22000	125.0	252.1	
74 Dibromomethane	93	8.397	8.403	-0.006	96	122461	5.00	5.22	
76 Dichlorobromomethane	83	8.634	8.634	0.000	100	328454	5.00	5.38	
77 2-Nitropropane	41	8.909	8.902	0.007	97	31271	5.00	4.84	
79 1-Bromo-2-chloroethane	63	9.037	9.037	0.000	98	270157	5.00	6.08	
80 cis-1,3-Dichloropropene	75	9.201	9.201	0.000	96	384965	5.00	5.18	
82 4-Methyl-2-pentanone (MIBK)	43	9.378	9.384	-0.006	97	1796939	62.5	70.1	
$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	93	2125217	10.0	10.1	
84 Toluene	92	9.604	9.604	0.000	98	691767	5.00	5.38	
85 trans-1,3-Dichloropropene	75	9.872	9.872	0.000	93	323184	5.00	5.39	
104 Ethyl methacrylate	69	9.945	9.945	0.000	89	236879	5.00	5.47	
106 1,1,2-Trichloroethane	97	10.085	10.085	0.000	90	177678	5.00	5.20	
107 Tetrachloroethene	166	10.177	10.177	0.000	98	329279	5.00	5.52	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	90	309110	5.00	5.33	
109 2-Hexanone	43	10.305	10.305	0.000	96	1211959	62.5	71.5	
111 Chlorodibromomethane	129	10.469	10.469	0.000	90	226410	5.00	5.37	
112 Ethylene Dibromide	107	10.585	10.585	0.000	99	167801	5.00	5.29	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1625126	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	97	359976	5.00	5.02	
115 Chlorobenzene	112	11.048	11.054	-0.006	95	757528	5.00	5.37	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	96	265657	5.00	5.38	
117 Ethylbenzene	91	11.140	11.140	0.000	99	1365194	5.00	5.48	
119 m-Xylene & p-Xylene	106	11.256	11.262	-0.006	100	1038534	10.0	11.0	
120 o-Xylene	106	11.591	11.591	0.000	97	499042	5.00	5.34	
121 Styrene	104	11.609	11.609	0.000	95	815188	5.00	5.63	
122 Bromoform	173	11.768	11.768	0.000	97	140412	5.00	5.30	
123 Isopropylbenzene	105	11.896	11.896	0.000	96	1337832	5.00	5.94	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	92	787109	10.0	9.97	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.146	0.000	93	214591	5.00	5.20	
128 Bromobenzene	156	12.158	12.158	0.000	97	317146	5.00	5.28	
129 trans-1,4-Dichloro-2-butene	53	12.170	12.170	0.000	94	283902	25.0	27.6	
130 1,2,3-Trichloropropane	110	12.188	12.188	0.000	81	57237	5.00	5.36	
131 N-Propylbenzene	91	12.231	12.231	0.000	99	1605123	5.00	5.60	
132 2-Chlorotoluene	126	12.304	12.304	0.000	97	318036	5.00	5.41	
133 1,3,5-Trimethylbenzene	105	12.365	12.365	0.000	94	1093344	5.00	5.42	
134 4-Chlorotoluene	126	12.402	12.396	0.006	97	328506	5.00	5.52	
135 tert-Butylbenzene	134	12.609	12.609	0.000	93	259151	5.00	5.75	
136 Pentachloroethane	167	12.640	12.640	0.000	92	197682	5.00	6.30	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	97	1108046	5.00	5.49	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	1375221	5.00	5.52	
139 1,3-Dichlorobenzene	146	12.877	12.871	0.006	98	612215	5.00	5.40	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	1175777	5.00	5.47	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	93	911210	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.951	12.950	0.001	95	622203	5.00	5.31	
143 1,2,3-Trimethylbenzene	120	12.957	12.957	0.000	98	468671	5.00	5.13	
144 Benzyl chloride	126	13.024	13.024	0.000	98	84894	5.00	5.36	
145 p-Diethylbenzene	119	13.158	13.158	0.000	94	713222	5.00	5.69	
146 n-Butylbenzene	92	13.176	13.176	0.000	96	555490	5.00	5.65	
147 1,2-Dichlorobenzene	146	13.207	13.206	0.001	98	559380	5.00	5.40	
149 1,2-Dibromo-3-Chloropropane	155	13.755	13.755	0.000	88	28867	5.00	5.25	
150 1,3,5-Trichlorobenzene	180	13.883	13.877	0.006	98	440215	5.00	5.68	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	349668	5.00	5.77	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	94	137177	5.00	6.00	
153 Naphthalene	128	14.481	14.481	0.000	97	572778	5.00	5.63	
154 1,2,3-Trichlorobenzene	180	14.627	14.621	0.006	95	272140	5.00	5.58	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00176	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00044	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00207	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00009	Amount Added:	12.50	Units: uL	
LCS_ETBR_00008	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00179	Amount Added:	12.50	Units: uL	
MSV_LLcentISS_00012	Amount Added:	5.00	Units: uL	Run Reagent

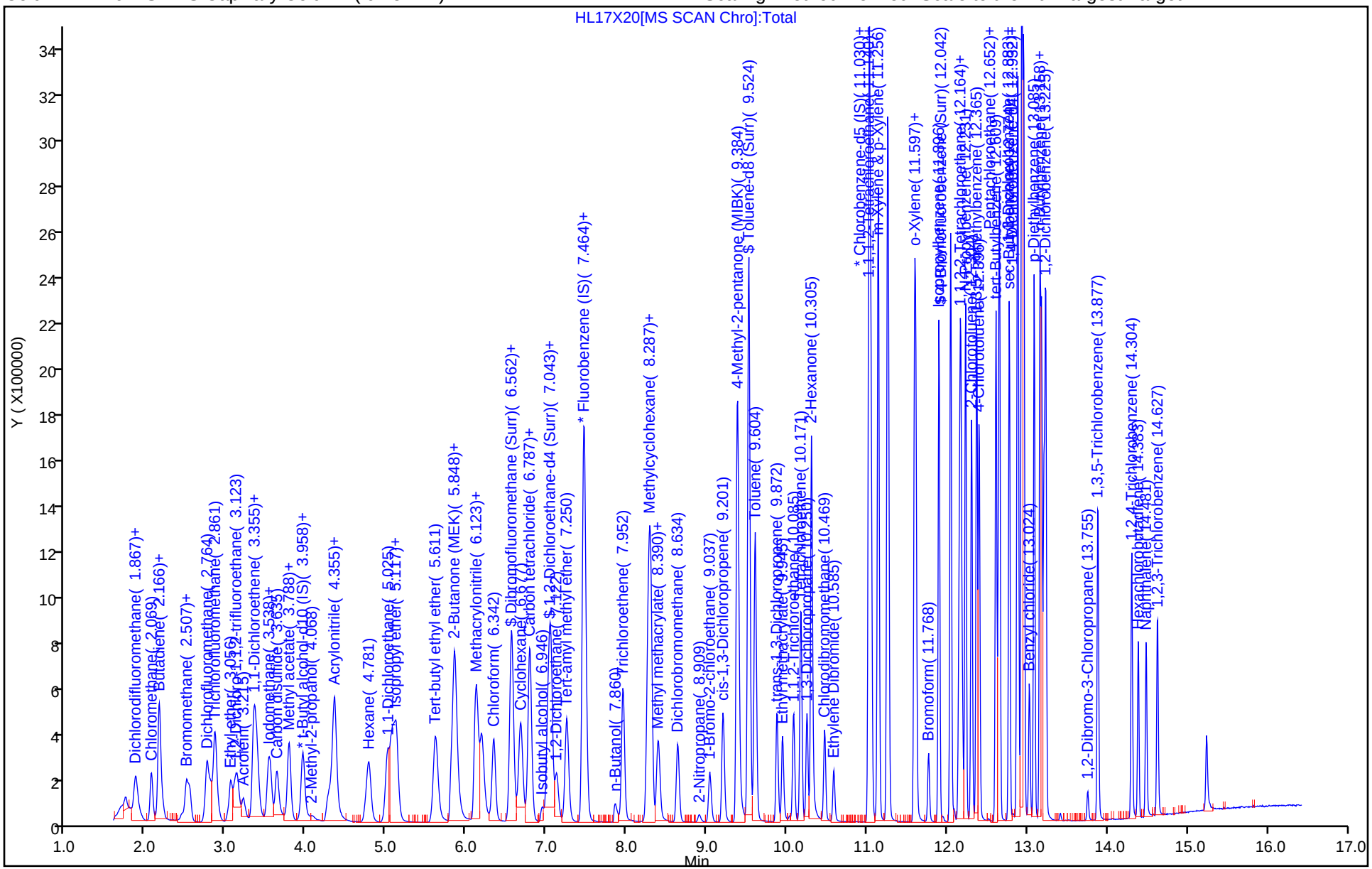
Report Date: 18-Jul-2024 22:28:29 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X20.D

Injection Date:	17-Jul-2024 20:16:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	ICV			Worklist Smp#:	21
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSV_19094_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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

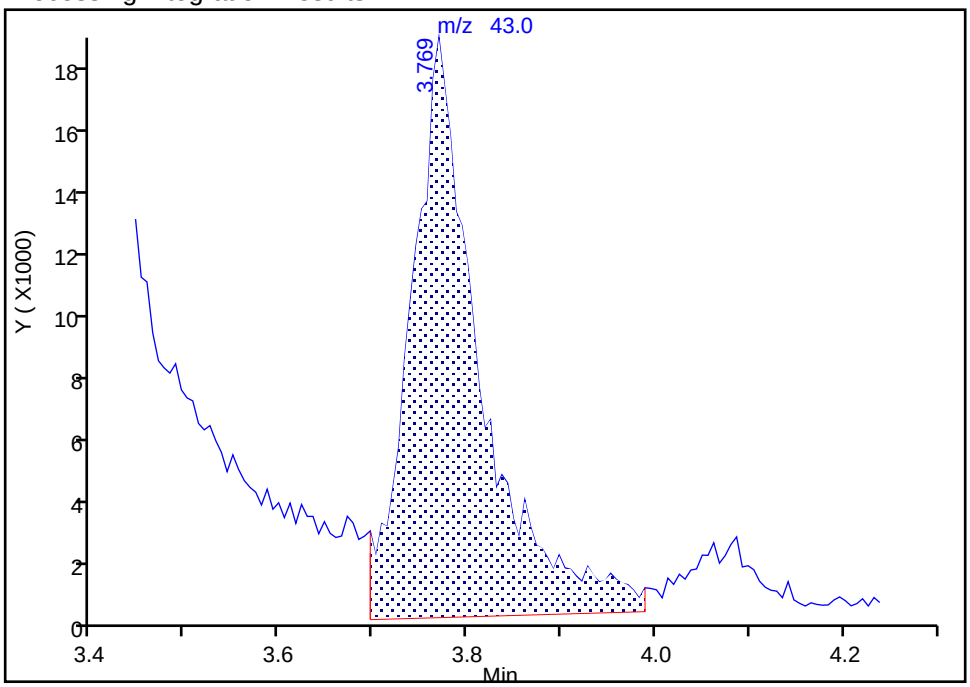
Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X20.D				
Injection Date:	17-Jul-2024 20:16:30	Instrument ID:	19094		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Methyl acetate, CAS: 79-20-9

Signal: 1

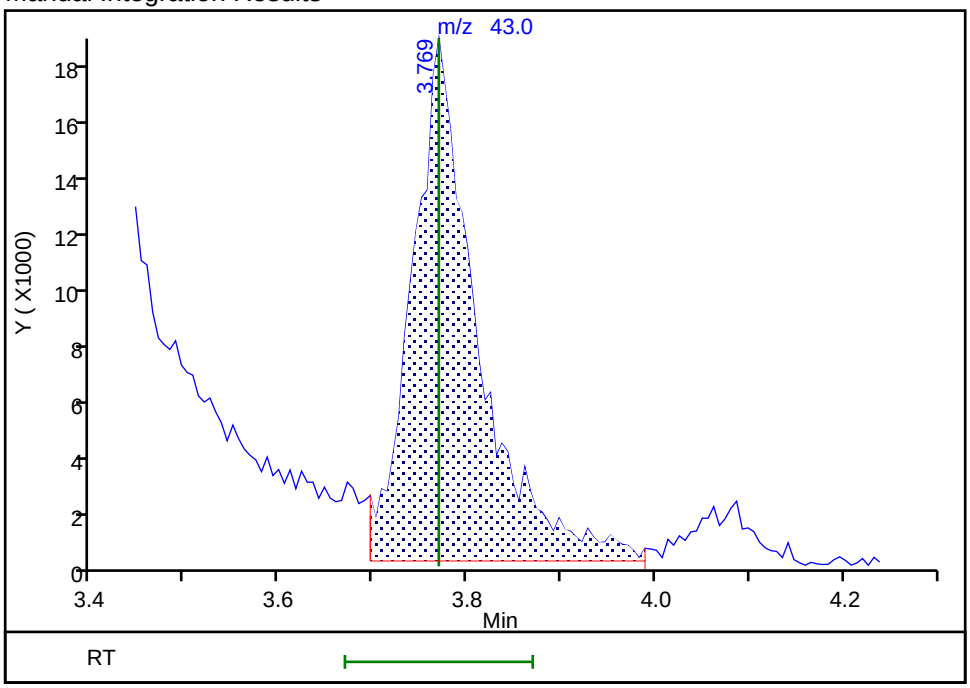
RT: 3.77
Area: 91093
Amount: 5.934409
Amount Units: ug/l

Processing Integration Results



RT: 3.77
Area: 82687
Amount: 5.494419
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:29:06 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Lab Sample ID: CCVIS 410-556727/3 Calibration Date: 09/27/2024 18:59

Instrument ID: 19094 Calib Start Date: 07/17/2024 17:30

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/17/2024 19:35

Lab File ID: HS27X02.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	0.2545	0.2423	0.1000	9.52	10.0	-4.8	20.0
Chloromethane	Ave	0.3177	0.2769	0.1000	8.72	10.0	-12.8	20.0
1,3-Butadiene	Ave	0.2719	0.2877		10.6	10.0	5.8	20.0
Vinyl chloride	Ave	0.2912	0.2706	0.1000	9.29	10.0	-7.1	20.0
Bromomethane	Ave	0.2040	0.1993	0.1000	9.77	10.0	-2.3	20.0
Chloroethane	Ave	0.1706	0.1702	0.1000	9.98	10.0	-0.2	20.0
Dichlorofluoromethane	Ave	0.4692	0.4521		9.64	10.0	-3.6	20.0
Trichlorofluoromethane	Ave	0.3505	0.3532	0.1000	10.1	10.0	0.8	20.0
Ethyl ether	Ave	0.1321	0.1327		10.0	10.0	0.4	20.0
Freon 123a	Ave	0.2604	0.2547		9.78	10.0	-2.2	20.0
Acrolein	Ave	2.126	1.972		465	501	-7.3	20.0
1,1-Dichloroethene	Ave	0.1805	0.1702	0.1000	9.43	10.0	-5.7	20.0
Acetone	Ave	2.661	2.237	0.1000	84.1	100	-15.9	20.0
Freon 113	Ave	0.1775	0.1897	0.1000	10.7	10.0	6.9	20.0
Methyl iodide	Ave	0.3583	0.3563		9.94	10.0	-0.6	20.0
Ethyl bromide	Ave	0.1605	0.1656		10.3	10.0	3.2	20.0
Carbon disulfide	Ave	0.5143	0.5423	0.1000	10.5	10.0	5.4	20.0
Methyl acetate	Ave	7.210	5.454	0.1000	7.56	10.0	-24.4*	20.0
Allyl chloride	Ave	0.3140	0.3044		9.69	10.0	-3.1	20.0
Methylene Chloride	Ave	0.2248	0.1979	0.1000	8.80	10.0	-12.0	20.0
t-Butyl alcohol	Ave	0.7313	0.8433		231	200	15.3	20.0
Acrylonitrile	Ave	3.604	2.885		20.0	25.0	-20.0	20.0
Methyl tert-butyl ether	Ave	0.4958	0.4501	0.1000	9.08	10.0	-9.2	20.0
trans-1,2-Dichloroethene	Ave	0.2110	0.2000	0.1000	9.48	10.0	-5.2	20.0
n-Hexane	Ave	0.2490	0.2760		11.1	10.0	10.8	20.0
1,1-Dichloroethane	Ave	0.4033	0.3850	0.2000	9.55	10.0	-4.5	20.0
di-Isopropyl ether	Ave	0.6652	0.6215		9.34	10.0	-6.6	20.0
2-Chloro-1,3-butadiene	Ave	0.3187	0.3200		10.0	10.0	0.4	20.0
Ethyl t-butyl ether	Ave	0.6184	0.5872		9.50	10.0	-5.0	20.0
2-Butanone (MEK)	Ave	4.394	3.844	0.1000	87.5	100	-12.5	20.0
cis-1,2-Dichloroethene	Ave	0.2403	0.2338	0.1000	9.73	10.0	-2.7	20.0
2,2-Dichloropropane	Ave	0.3347	0.3350		10.0	10.0	0.0	20.0
Propionitrile	Lin1		1.230		183	200	-8.5	20.0
Methacrylonitrile	Ave	5.033	4.656		92.5	100	-7.5	20.0
Bromochloromethane	Ave	0.1015	0.0984		9.69	10.0	-3.1	20.0
Tetrahydrofuran	Ave	1.293	1.235		47.8	50.0	-4.5	20.0
Chloroform	Ave	0.4003	0.3819	0.2000	9.54	10.0	-4.6	20.0
1,1,1-Trichloroethane	Ave	0.3414	0.3407	0.1000	9.98	10.0	-0.2	20.0
Cyclohexane	Ave	0.3381	0.3478	0.1000	10.3	10.0	2.9	20.0
Carbon tetrachloride	Ave	0.2975	0.3079	0.1000	10.3	10.0	3.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Lab Sample ID: CCVIS 410-556727/3 Calibration Date: 09/27/2024 18:59

Instrument ID: 19094 Calib Start Date: 07/17/2024 17:30

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/17/2024 19:35

Lab File ID: HS27X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloropropene	Ave	0.3038	0.3070		10.1	10.0	1.1	20.0
Isobutyl alcohol	Ave	0.2352	0.2737		582	500	16.4	20.0
Benzene	Ave	0.9210	0.8813	0.5000	9.57	10.0	-4.3	20.0
1,2-Dichloroethane	Ave	0.2421	0.2178	0.1000	8.99	10.0	-10.1	20.0
t-Amyl methyl ether	Ave	0.5458	0.5110		9.36	10.0	-6.4	20.0
n-Heptane	Ave	0.2544	0.2550		10.0	10.0	0.2	20.0
n-Butanol	Lin		0.2193		912	875	4.3	20.0
Trichloroethene	Ave	0.2426	0.2308	0.2000	9.52	10.0	-4.8	20.0
Methylcyclohexane	Ave	0.3437	0.3771	0.1000	11.0	10.0	9.7	20.0
1,2-Dichloropropane	Ave	0.2327	0.2285	0.1000	9.82	10.0	-1.8	20.0
1,4-Dioxane	Qua		0.0462	0.0050	541	500	8.2	20.0
Methyl methacrylate	Ave	9.456	8.400		8.88	10.0	-11.2	20.0
Dibromomethane	Ave	0.1082	0.1007		9.31	10.0	-6.9	20.0
Bromodichloromethane	Ave	0.2813	0.2665	0.2000	9.48	10.0	-5.2	20.0
2-Nitropropane	Ave	3.095	2.529		40.8	50.0	-18.3	20.0
1-Bromo-2-chloroethane	Ave	0.2047	0.2184		10.7	10.0	6.7	20.0
cis-1,3-Dichloropropene	Ave	0.3425	0.3319	0.2000	9.69	10.0	-3.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	12.29	10.38	0.1000	84.5	100	-15.5	20.0
Toluene	Ave	0.7905	0.7380	0.4000	9.34	10.0	-6.6	20.0
trans-1,3-Dichloropropene	Ave	0.3687	0.3501	0.1000	9.49	10.0	-5.1	20.0
Ethyl methacrylate	Ave	0.2666	0.2546		9.55	10.0	-4.5	20.0
1,1,2-Trichloroethane	Ave	0.2102	0.1849	0.1000	8.80	10.0	-12.0	20.0
Tetrachloroethene	Ave	0.3673	0.3575	0.2000	9.73	10.0	-2.7	20.0
1,3-Dichloropropane	Ave	0.3572	0.3295		9.22	10.0	-7.8	20.0
2-Hexanone	Ave	8.125	7.035	0.1000	86.6	100	-13.4	20.0
Dibromochloromethane	Ave	0.2595	0.2477		9.55	10.0	-4.5	20.0
1,2-Dibromoethane (EDB)	Ave	0.1953	0.1788	0.1000	9.16	10.0	-8.4	20.0
1-Chlorohexane	Ave	0.4410	0.4106		9.31	10.0	-6.9	20.0
Chlorobenzene	Ave	0.8684	0.8232	0.5000	9.48	10.0	-5.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3036	0.2923		9.63	10.0	-3.7	20.0
Ethylbenzene	Ave	1.534	1.451	0.1000	9.46	10.0	-5.4	20.0
m&p-Xylene	Ave	0.5824	0.5991	0.1000	20.6	20.0	2.9	20.0
o-Xylene	Ave	0.5747	0.5731	0.3000	9.97	10.0	-0.3	20.0
Styrene	Ave	0.8908	0.9034	0.3000	10.1	10.0	1.4	20.0
Bromoform	Ave	0.1629	0.1493	0.1000	9.17	10.0	-8.3	20.0
Isopropylbenzene	Ave	1.386	1.336	0.1000	9.64	10.0	-3.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.4525	0.3979	0.3000	8.79	10.0	-12.1	20.0
Bromobenzene	Ave	0.6586	0.5852		8.89	10.0	-11.1	20.0
trans-1,4-Dichloro-2-butene	Ave	4.924	4.152		84.3	100	-15.7	20.0
1,2,3-Trichloropropane	Ave	0.1171	0.1099		9.38	10.0	-6.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Lab Sample ID: CCVIS 410-556727/3 Calibration Date: 09/27/2024 18:59

Instrument ID: 19094 Calib Start Date: 07/17/2024 17:30

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/17/2024 19:35

Lab File ID: HS27X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Propylbenzene	Ave	3.148	2.965		9.42	10.0	-5.8	20.0
2-Chlorotoluene	Ave	0.6448	0.6122		9.49	10.0	-5.1	20.0
1,3,5-Trimethylbenzene	Ave	2.214	2.115		9.56	10.0	-4.4	20.0
4-Chlorotoluene	Ave	0.6526	0.6241		9.56	10.0	-4.4	20.0
tert-Butylbenzene	Ave	0.4949	0.5000		10.1	10.0	1.0	20.0
Pentachloroethane	Ave	0.3446	0.4014		11.6	10.0	16.5	20.0
1,2,4-Trimethylbenzene	Ave	2.215	2.168		9.79	10.0	-2.1	20.0
sec-Butylbenzene	Ave	2.733	2.758		10.1	10.0	0.9	20.0
1,3-Dichlorobenzene	Ave	1.244	1.192	0.6000	9.58	10.0	-4.2	20.0
p-Isopropyltoluene	Ave	2.359	2.435		10.3	10.0	3.2	20.0
1,4-Dichlorobenzene	Ave	1.286	1.200	0.5000	9.32	10.0	-6.8	20.0
1,2,3-Trimethylbenzene	Ave	1.003	0.9791		9.77	10.0	-2.3	20.0
Benzyl chloride	Ave	0.1739	0.1786		10.3	10.0	2.7	20.0
n-Butylbenzene	Ave	1.078	1.154		10.7	10.0	7.0	20.0
1,2-Dichlorobenzene	Ave	1.138	1.085	0.4000	9.54	10.0	-4.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0603	0.0569	0.0500	9.43	10.0	-5.7	20.0
1,3,5-Trichlorobenzene	Ave	0.8504	0.9145		10.8	10.0	7.5	20.0
1,2,4-Trichlorobenzene	Ave	0.6647	0.7389	0.2000	11.1	10.0	11.2	20.0
Hexachlorobutadiene	Ave	0.2509	0.3279		13.1	10.0	30.7*	20.0
Naphthalene	Ave	1.116	1.183		10.6	10.0	6.1	20.0
1,2,3-Trichlorobenzene	Ave	0.5351	0.6018		11.2	10.0	12.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2449	0.2451		10.0	10.0	0.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0500	0.0473		9.46	10.0	-5.4	20.0
Toluene-d8 (Surr)	Ave	1.301	1.322		10.2	10.0	1.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4856	0.4905		10.1	10.0	1.0	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X02.D
Lims ID: CCVIS VSTD10
Client ID:
Sample Type: CCVIS
Inject. Date: 27-Sep-2024 18:59:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-003
Misc. Info.: CCVIS VSTD10
Operator ID: gaw91131 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 27-Sep-2024 20:48:24 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1652

First Level Reviewer: JS6E Date: 27-Sep-2024 19:36:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.861	1.861	0.000	99	393912	10.0	9.52	
5 Chloromethane	50	2.056	2.056	0.000	99	450277	10.0	8.72	
7 Butadiene	39	2.154	2.154	0.000	91	467750	10.0	10.6	
6 Vinyl chloride	62	2.166	2.166	0.000	98	439893	10.0	9.29	
9 Bromomethane	94	2.477	2.477	0.000	91	324089	10.0	9.77	
10 Chloroethane	64	2.538	2.538	0.000	100	276765	10.0	9.98	
11 Dichlorofluoromethane	67	2.757	2.757	0.000	97	735012	10.0	9.64	
12 Trichlorofluoromethane	101	2.849	2.849	0.000	97	574239	10.0	10.1	
14 Ethyl ether	59	3.056	3.056	0.000	90	215701	10.0	10.0	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.135	3.135	0.000	92	414051	10.0	9.78	
16 Acrolein	56	3.202	3.202	0.000	99	1677121	501.1	464.7	
17 1,1-Dichloroethene	96	3.337	3.337	0.000	98	276708	10.0	9.43	
19 Acetone	43	3.367	3.367	0.000	84	379716	100.0	84.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.379	3.379	0.000	92	308467	10.0	10.7	
21 Iodomethane	142	3.519	3.519	0.000	99	579335	10.0	9.94	
22 Ethyl bromide	108	3.544	3.544	0.000	98	269756	10.0	10.3	
23 Carbon disulfide	76	3.629	3.629	0.000	99	881734	10.0	10.5	
24 Methyl acetate	43	3.757	3.757	0.000	97	92582	10.0	7.56	M
26 3-Chloro-1-propene	41	3.775	3.775	0.000	93	494988	10.0	9.69	
27 Methylene Chloride	84	3.952	3.952	0.000	93	321748	10.0	8.80	
* 28 t-Butyl alcohol-d10 (IS)	65	3.983	3.983	0.000	98	84871	50.0	50.0	
29 2-Methyl-2-propanol	59	4.086	4.086	0.000	100	286295	200.0	230.6	
31 Acrylonitrile	53	4.288	4.288	0.000	98	122410	25.0	20.0	
32 Methyl tert-butyl ether	73	4.330	4.330	0.000	95	731867	10.0	9.08	
33 trans-1,2-Dichloroethene	96	4.349	4.349	0.000	99	325232	10.0	9.48	
34 Hexane	57	4.769	4.769	0.000	91	448760	10.0	11.1	
36 1,1-Dichloroethane	63	5.007	5.007	0.000	96	626010	10.0	9.55	
37 Isopropyl ether	45	5.062	5.062	0.000	95	1010560	10.0	9.34	
38 2-Chloro-1,3-butadiene	53	5.117	5.117	0.000	90	520217	10.0	10.0	
40 Tert-butyl ethyl ether	59	5.604	5.604	0.000	98	954764	10.0	9.50	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.812	5.812	0.000	99	652566	100.0	87.5	
42 cis-1,2-Dichloroethene	96	5.842	5.842	0.000	82	380173	10.0	9.73	
43 2,2-Dichloropropane	77	5.854	5.854	0.000	87	544636	10.0	10.0	
44 Propionitrile	54	5.897	5.897	0.000	99	417432	200.0	183.0	
47 Methacrylonitrile	67	6.110	6.110	0.000	90	790394	100.0	92.5	
48 Chlorobromomethane	128	6.184	6.184	0.000	94	160002	10.0	9.69	
49 Tetrahydrofuran	71	6.190	6.190	0.000	73	104804	50.0	47.8	
50 Chloroform	83	6.336	6.336	0.000	93	620866	10.0	9.54	
$ 52 Dibromofluoromethane (Surr)	113	6.549	6.549	0.000	94	398460	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.562	6.562	0.000	98	553863	10.0	9.98	
54 Cyclohexane	56	6.671	6.671	0.000	89	565552	10.0	10.3	
56 Carbon tetrachloride	117	6.781	6.781	0.000	91	500557	10.0	10.3	
55 1,1-Dichloropropene	75	6.787	6.787	0.000	96	499208	10.0	10.1	
57 Isobutyl alcohol	41	6.946	6.946	0.000	94	232326	500.0	581.9	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.007	7.007	0.000	80	76957	10.0	9.46	
59 Benzene	78	7.043	7.043	0.000	96	1432876	10.0	9.57	
60 1,2-Dichloroethane	62	7.116	7.116	0.000	98	354056	10.0	8.99	
63 Tert-amyl methyl ether	73	7.244	7.244	0.000	99	830804	10.0	9.36	
* 64 Fluorobenzene (IS)	96	7.458	7.458	0.000	98	1625898	10.0	10.0	
65 n-Heptane	43	7.476	7.476	0.000	86	414615	10.0	10.0	
67 n-Butanol	56	7.836	7.836	0.000	88	325649	875.0	912.3	
68 Trichloroethene	95	7.945	7.945	0.000	98	375334	10.0	9.52	
69 Methylcyclohexane	83	8.262	8.262	0.000	91	613183	10.0	11.0	
70 1,2-Dichloropropane	63	8.281	8.281	0.000	98	371498	10.0	9.82	
71 2-ethoxy-2-methyl butane	87	8.293	8.293	0.000	95	552803	10.0	9.95	
73 1,4-Dioxane	88	8.372	8.372	0.000	38	39228	500.0	541.0	
72 Methyl methacrylate	69	8.378	8.378	0.000	89	142587	10.0	8.88	
74 Dibromomethane	93	8.390	8.390	0.000	94	163743	10.0	9.31	
76 Dichlorobromomethane	83	8.634	8.634	0.000	99	433309	10.0	9.48	
77 2-Nitropropane	41	8.896	8.896	0.000	99	214622	50.0	40.8	
79 1-Bromo-2-chloroethane	63	9.031	9.031	0.000	98	355141	10.0	10.7	
80 cis-1,3-Dichloropropene	75	9.195	9.195	0.000	96	539652	10.0	9.69	
82 4-Methyl-2-pentanone (MIBK)	43	9.372	9.372	0.000	96	1761802	100.0	84.5	
$ 83 Toluene-d8 (Surr)	98	9.518	9.518	0.000	93	1676709	10.0	10.2	
84 Toluene	92	9.598	9.598	0.000	99	935942	10.0	9.34	
85 trans-1,3-Dichloropropene	75	9.872	9.872	0.000	92	443953	10.0	9.49	
104 Ethyl methacrylate	69	9.939	9.939	0.000	88	322920	10.0	9.55	
106 1,1,2-Trichloroethane	97	10.079	10.079	0.000	91	234550	10.0	8.80	
107 Tetrachloroethene	166	10.171	10.171	0.000	98	453387	10.0	9.73	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	89	417820	10.0	9.22	
109 2-Hexanone	43	10.299	10.299	0.000	96	1194149	100.0	86.6	
111 Chlorodibromomethane	129	10.463	10.463	0.000	90	314192	10.0	9.55	
112 Ethylene Dibromide	107	10.579	10.579	0.000	98	226809	10.0	9.16	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1268191	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	96	520731	10.0	9.31	
115 Chlorobenzene	112	11.048	11.048	0.000	95	1043975	10.0	9.48	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	96	370743	10.0	9.63	
117 Ethylbenzene	91	11.140	11.140	0.000	98	1840289	10.0	9.46	
119 m-Xylene & p-Xylene	106	11.256	11.256	0.000	99	1519536	20.0	20.6	
120 o-Xylene	106	11.591	11.591	0.000	95	726780	10.0	9.97	
121 Styrene	104	11.603	11.603	0.000	95	1145702	10.0	10.1	
122 Bromoform	173	11.762	11.762	0.000	98	189361	10.0	9.17	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 Isopropylbenzene	105	11.896	11.896	0.000	95	1694305	10.0	9.64	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	94	622049	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.140	12.140	0.000	92	300295	10.0	8.79	
128 Bromobenzene	156	12.152	12.152	0.000	96	441726	10.0	8.89	
129 trans-1,4-Dichloro-2-butene	53	12.164	12.164	0.000	91	704789	100.0	84.3	
130 1,2,3-Trichloropropane	110	12.188	12.188	0.000	81	82946	10.0	9.38	
131 N-Propylbenzene	91	12.225	12.225	0.000	99	2237593	10.0	9.42	
132 2-Chlorotoluene	126	12.304	12.304	0.000	97	462084	10.0	9.49	
133 1,3,5-Trimethylbenzene	105	12.365	12.365	0.000	95	1596498	10.0	9.56	
134 4-Chlorotoluene	126	12.396	12.396	0.000	97	471098	10.0	9.56	
135 tert-Butylbenzene	134	12.609	12.609	0.000	94	377426	10.0	10.1	
136 Pentachloroethane	167	12.640	12.640	0.000	94	303008	10.0	11.6	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	97	1636190	10.0	9.79	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	2081995	10.0	10.1	
139 1,3-Dichlorobenzene	146	12.871	12.871	0.000	98	899458	10.0	9.58	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	1837736	10.0	10.3	
* 141 1,4-Dichlorobenzene-d4	152	12.926	12.926	0.000	94	754793	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.944	12.944	0.000	94	905402	10.0	9.32	
143 1,2,3-Trimethylbenzene	120	12.957	12.957	0.000	98	739024	10.0	9.77	
144 Benzyl chloride	126	13.024	13.024	0.000	98	134830	10.0	10.3	
145 p-Diethylbenzene	119	13.158	13.158	0.000	94	1105015	10.0	10.6	
146 n-Butylbenzene	92	13.176	13.176	0.000	97	870747	10.0	10.7	
147 1,2-Dichlorobenzene	146	13.207	13.207	0.000	99	819137	10.0	9.54	
149 1,2-Dibromo-3-Chloropropane	155	13.755	13.755	0.000	89	42927	10.0	9.43	
150 1,3,5-Trichlorobenzene	180	13.877	13.877	0.000	98	690223	10.0	10.8	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	557689	10.0	11.1	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	94	247483	10.0	13.1	
153 Naphthalene	128	14.481	14.481	0.000	97	893296	10.0	10.6	
154 1,2,3-Trichlorobenzene	180	14.627	14.627	0.000	96	454217	10.0	11.2	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

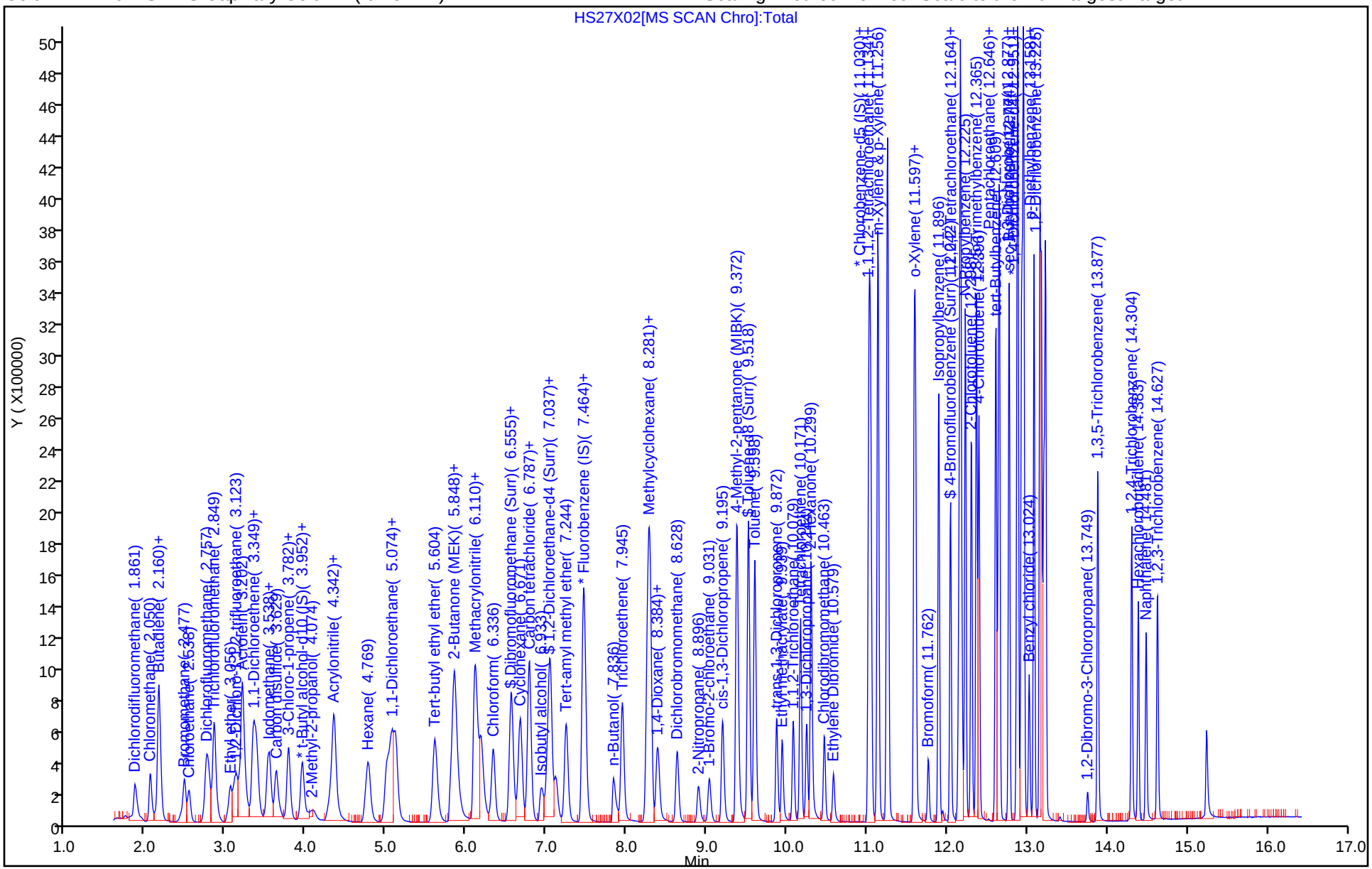
MSV_LL_#1_826_00147	Amount Added:	20.00	Units: uL	
MSV_LL_#2_826_00155	Amount Added:	20.00	Units: uL	
MSV_LL_GAS826_00235	Amount Added:	20.00	Units: uL	
MSV_LLcentISS_00013	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 27-Sep-2024 20:48:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X02.D				
Injection Date:	27-Sep-2024 18:59:30	Instrument ID:	19094	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_19094_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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

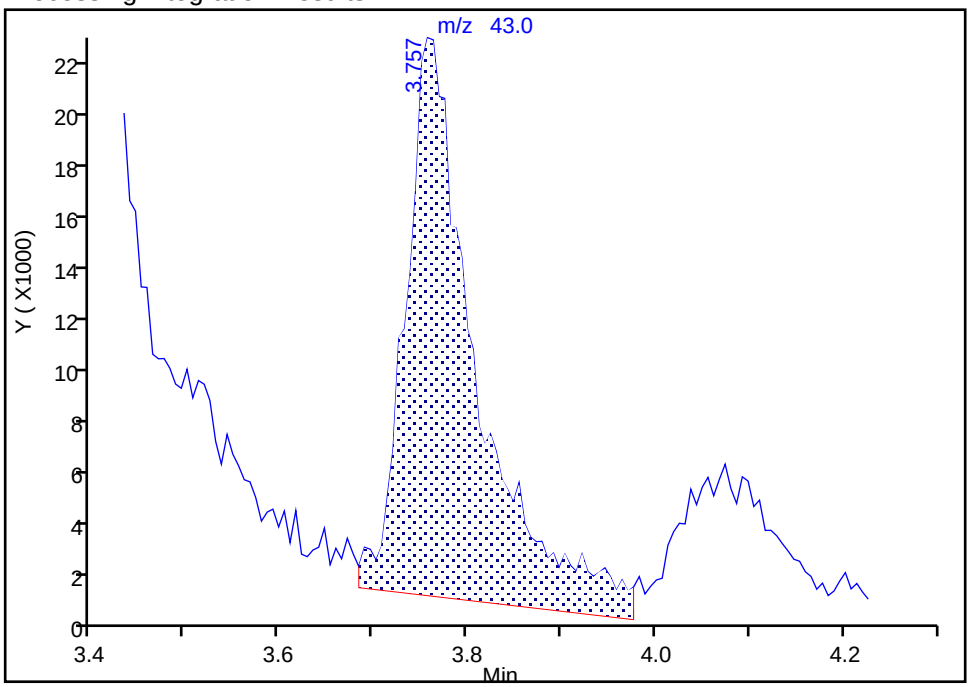
Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X02.D
Injection Date: 27-Sep-2024 18:59:30 Instrument ID: 19094
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

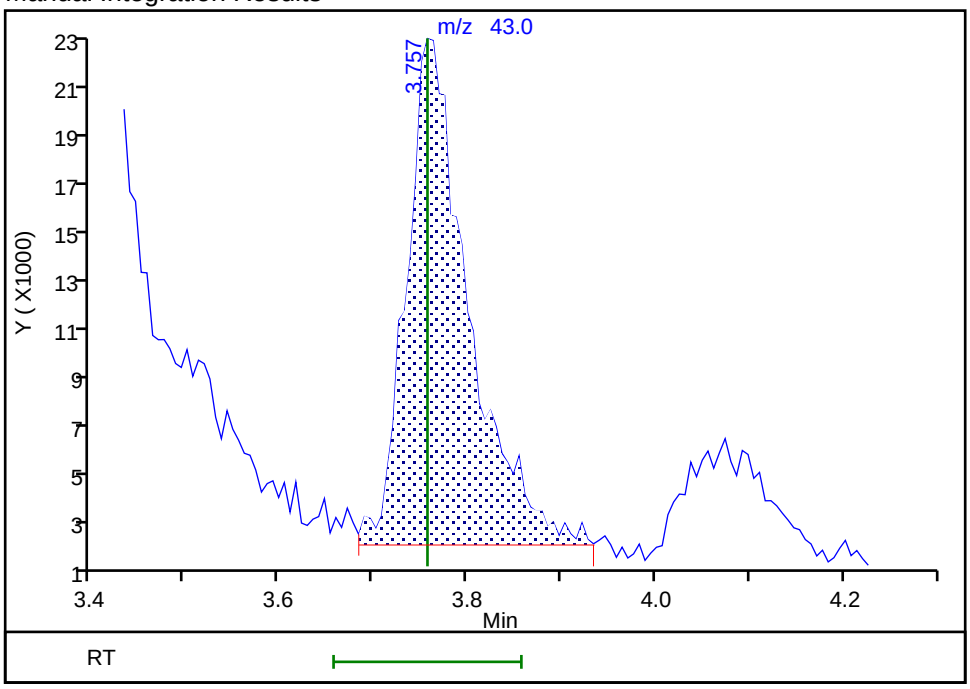
Processing Integration Results

RT: 3.76
Area: 110704
Amount: 9.045466
Amount Units: ug/l



Manual Integration Results

RT: 3.76
Area: 92582
Amount: 7.564743
Amount Units: ug/l



Reviewer: JS6E, 27-Sep-2024 19:34:58 -04:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	17-Jul-2024 13:29:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0119602-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	18-Jul-2024 11:26:20	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1667				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 166 BFB	95	5.074	5.074	0.000	94	226424	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

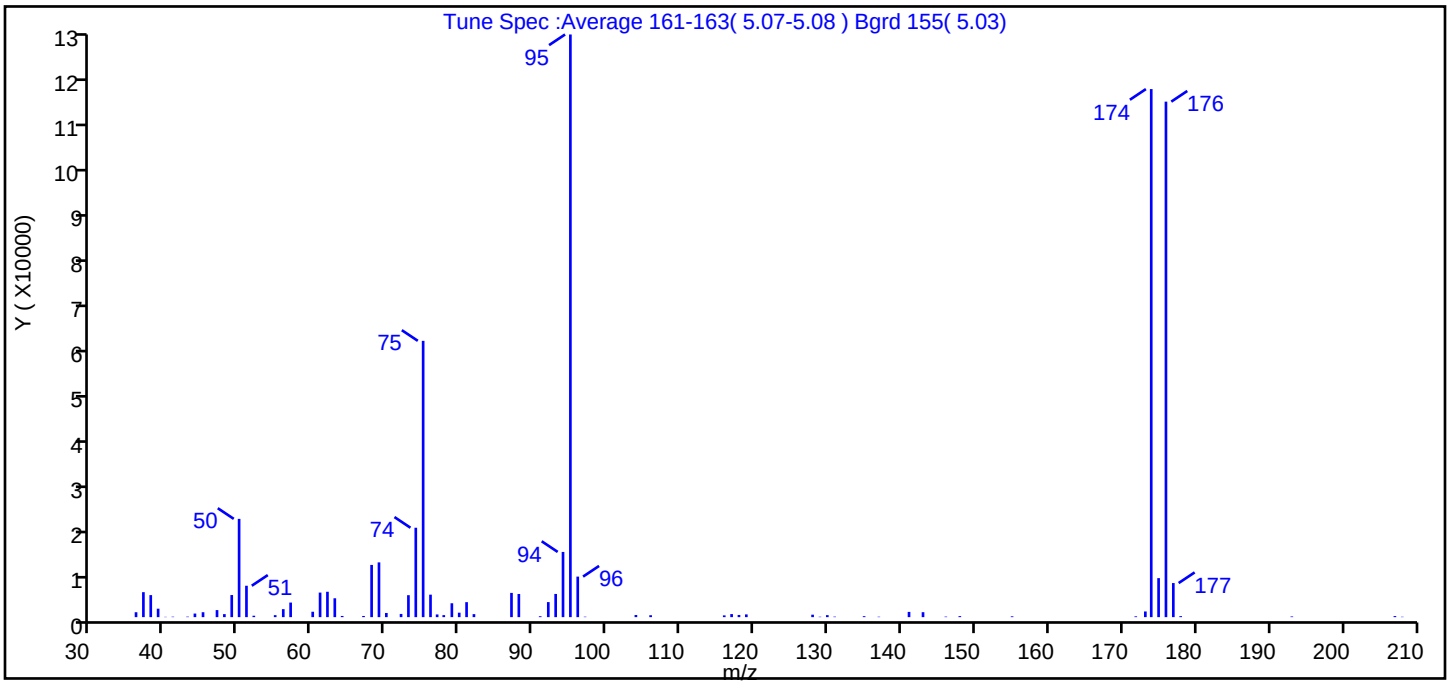
MSV_V_BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17T01.D
Injection Date: 17-Jul-2024 13:29:30 Instrument ID: 19094
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_19094_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 166 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.9
75	30 to 60% of m/z 95	47.4
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	1.0 (1.1)
174	50 to 120% of m/z 95	90.6
175	5 to 9% of m/z 174	6.7 (7.4)
176	Greater than 95% but less than 101% of m/z 174	88.5 (97.6)
177	5 to 9% of m/z 176	5.8 (6.6)

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17T01.D\MSV_19094_25mL.rslt\spectra.d
Injection Date: 17-Jul-2024 13:29:30
Spectrum: Tune Spec :Average 161-163(5.07-5.08) Bgrd 155(5.03)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1097	61.00	5477	87.00	5406	135.00	210
37.00	5570	62.00	5660	88.00	5164	137.00	94
38.00	4914	63.00	4209	91.00	198	141.00	1169
39.00	1886	64.00	264	92.00	3355	143.00	1105
40.00	64	67.00	260	93.00	5173	146.00	117
41.00	98	68.00	11644	94.00	14540	148.00	225
43.00	110	69.00	12211	95.00	129920	155.00	178
44.00	798	70.00	929	96.00	9040	172.00	177
45.00	1099	72.00	714	97.00	97	173.00	1267
47.00	1572	73.00	4897	104.00	474	174.00	117744
48.00	675	74.00	19936	106.00	425	175.00	8702
49.00	4928	75.00	61608	116.00	392	176.00	114944
50.00	21912	76.00	5015	117.00	684	177.00	7600
51.00	7003	77.00	602	118.00	486	178.00	221
52.00	314	78.00	450	119.00	611	193.00	148
55.00	443	79.00	3096	128.00	550	207.00	236
56.00	1784	80.00	993	129.00	89	208.00	82
57.00	3252	81.00	3343	130.00	443		
60.00	1205	82.00	673	131.00	110		

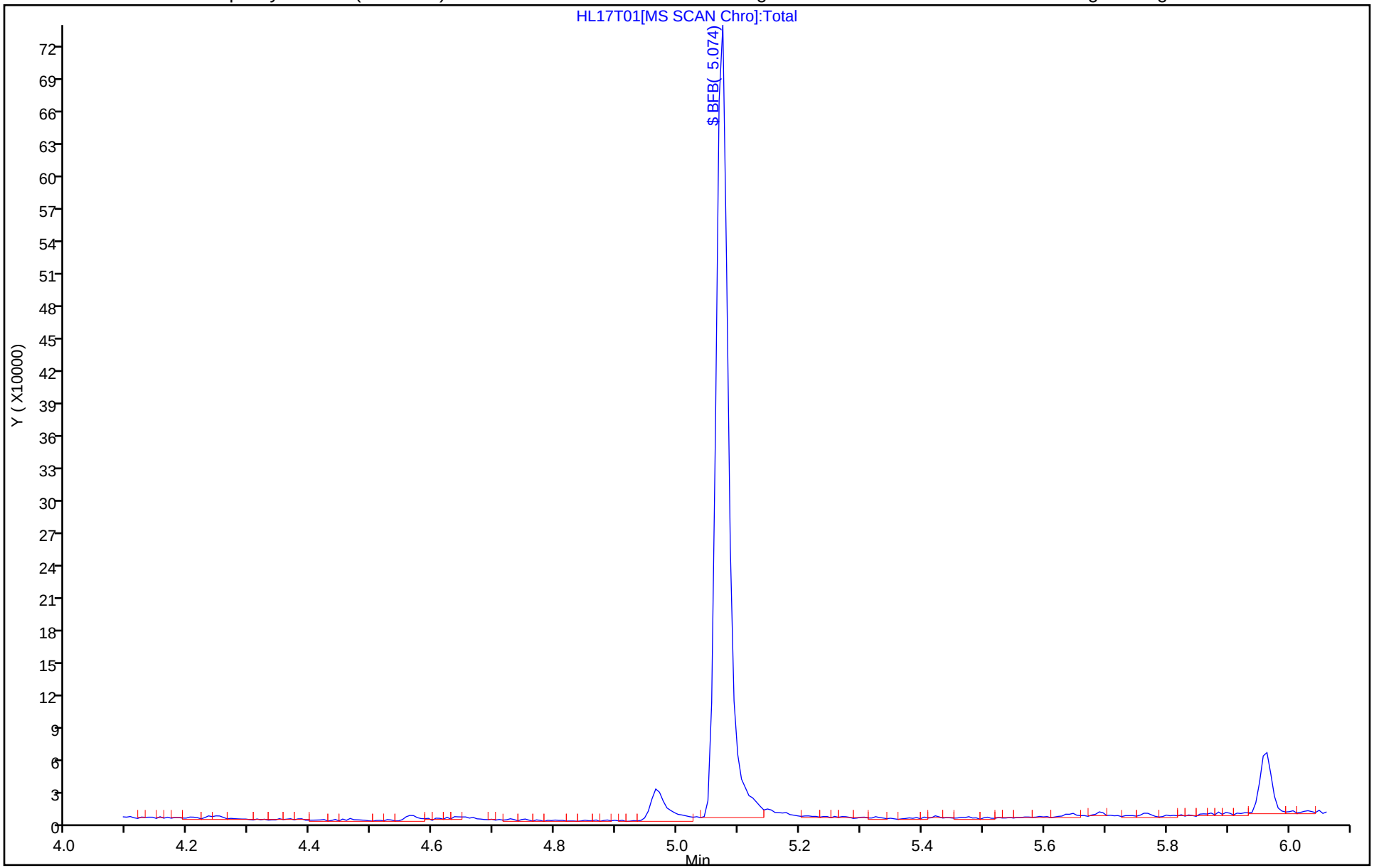
Report Date: 18-Jul-2024 11:26:21 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17T01.D

Injection Date:	17-Jul-2024 13:29:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_19094_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\19094\20240927-126208.b\HS27T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	27-Sep-2024 18:20:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-001				
Misc. Info.:	BFB				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Sep-2024 09:15:33	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				
First Level Reviewer: FQ4L		Date:	30-Sep-2024 09:15:33		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 166 BFB	95	5.068	5.068	0.000	92	303382	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

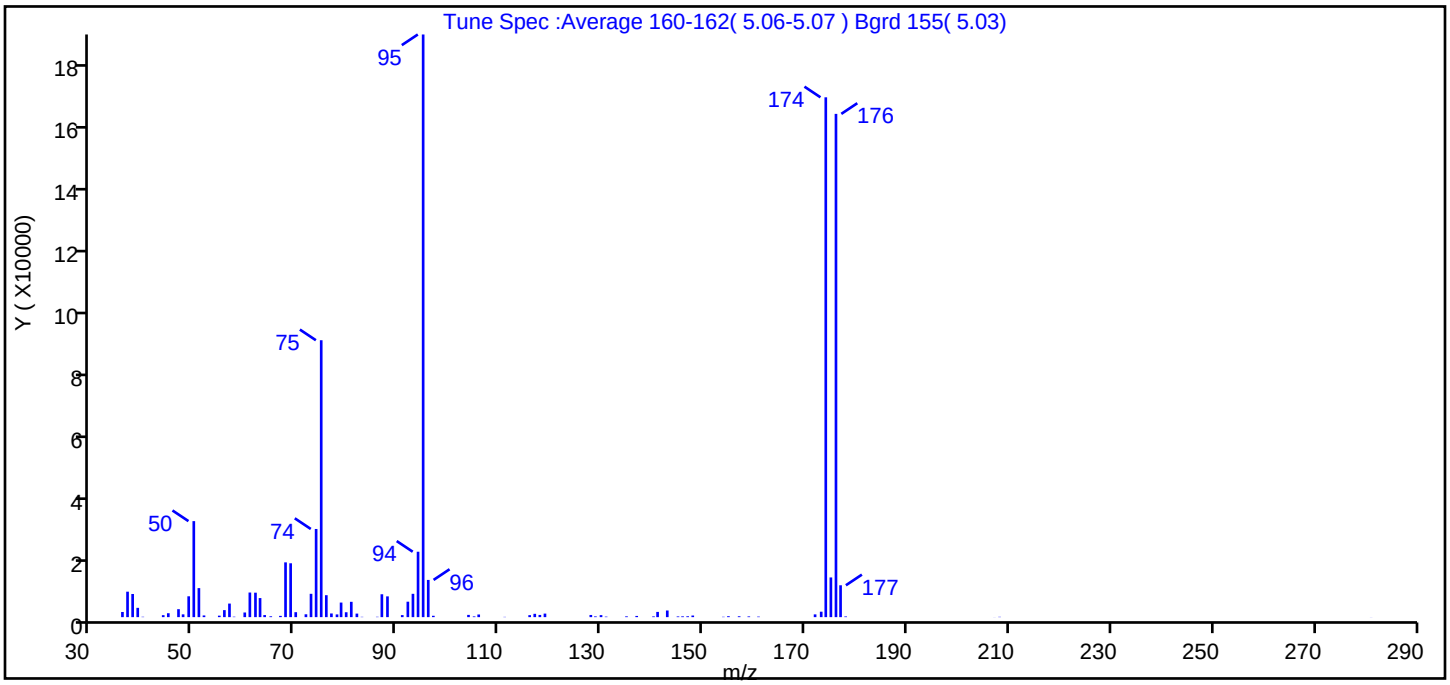
MSV_V_BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27T01.D
Injection Date: 27-Sep-2024 18:20:30 Instrument ID: 19094
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_19094_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 166 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.5
75	30 to 60% of m/z 95	47.5
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.9 (1.0)
174	50 to 120% of m/z 95	89.2
175	5 to 9% of m/z 174	6.8 (7.6)
176	Greater than 95% but less than 101% of m/z 174	86.4 (96.8)
177	5 to 9% of m/z 176	5.5 (6.3)

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27T01.D\MSV_19094_25mL.rslt\spectra.d
Injection Date: 27-Sep-2024 18:20:30
Spectrum: Tune Spec :Average 160-162(5.06-5.07) Bgrd 155(5.03)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1634	65.00	267	93.00	7391	145.00	223
37.00	8063	67.00	402	94.00	20720	146.00	250
38.00	7334	68.00	17352	95.00	184576	147.00	274
39.00	2945	69.00	17064	96.00	11791	148.00	510
40.00	117	70.00	1571	97.00	432	154.00	113
44.00	627	72.00	907	104.00	715	155.00	291
45.00	1240	73.00	7391	105.00	230	157.00	275
47.00	2522	74.00	27928	106.00	837	159.00	229
48.00	885	75.00	87720	111.00	83	161.00	170
49.00	6605	76.00	6954	116.00	629	172.00	877
50.00	30416	77.00	1167	117.00	1053	173.00	1728
51.00	9195	78.00	866	118.00	697	174.00	164672
52.00	537	79.00	4619	119.00	1123	175.00	12577
55.00	470	80.00	1553	128.00	690	176.00	159424
56.00	2223	81.00	4855	129.00	234	177.00	10095
57.00	4299	82.00	1121	130.00	639	178.00	216
58.00	141	83.00	100	131.00	160	207.00	23
60.00	1474	86.00	115	135.00	250	208.00	100
61.00	7799	87.00	7250	137.00	382	281.00	25
62.00	7750	88.00	6582	140.00	230		
63.00	6042	91.00	643	141.00	1660		
64.00	659	92.00	4892	143.00	2107		

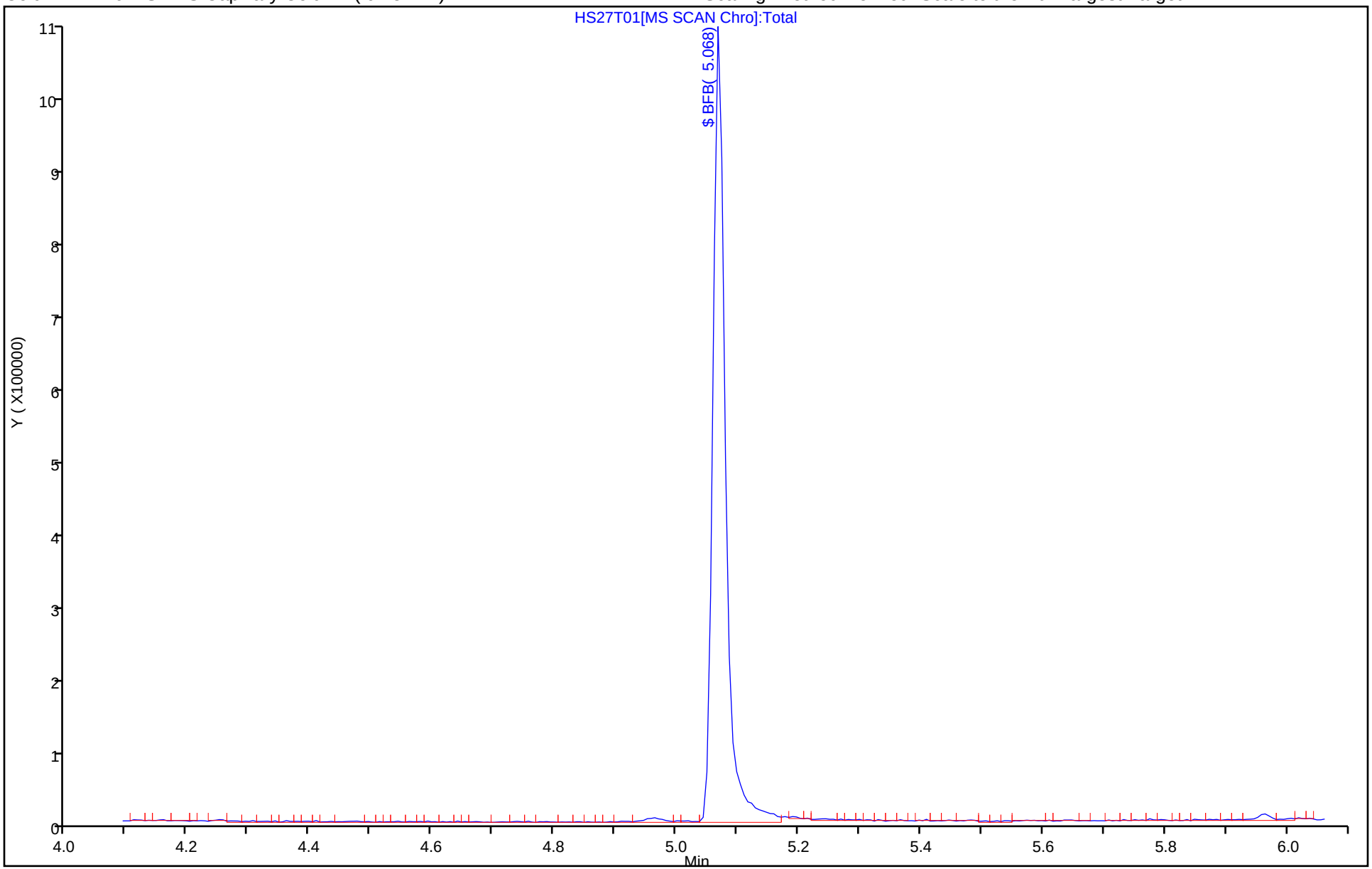
Report Date: 30-Sep-2024 09:15:34 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27T01.D

Injection Date:	27-Sep-2024 18:20:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_19094_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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-556727/6

Matrix: Water
Lab File ID: HS27X05.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 20:01

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-556727/6

Matrix: Water
Lab File ID: HS27X05.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 20:01

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

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)	94		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 27-Sep-2024 20:01:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-006
Misc. Info.: MB
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 27-Sep-2024 20:48:24 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1652

First Level Reviewer: JS6E Date: 27-Sep-2024 20:48:05

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116		1.849					ND	
2	Dichlorodifluoromethane	85		1.861					ND	
3	Chlorodifluoromethane	51		1.898					ND	
4	Dimethyl ether	45		1.947					ND	
5	Chloromethane	50		2.056					ND	
7	Butadiene	39		2.154					ND	7
6	Vinyl chloride	62		2.166					ND	
8	2-Chloro-1,1,1-Trifluoroethane	118		2.239					ND	
9	Bromomethane	94		2.477					ND	
10	Chloroethane	64		2.538					ND	
11	Dichlorofluoromethane	67		2.757					ND	
12	Trichlorofluoromethane	101		2.849					ND	
14	Ethyl ether	59		3.056					ND	
13	Ethanol	45		3.111					ND	
15	1,2-Dichloro-1,1,2-trifluoroetha	67		3.135					ND	
16	Acrolein	56		3.202					ND	
17	1,1-Dichloroethene	96		3.337					ND	
19	Acetone	43		3.367					ND	
20	1,1,2-Trichloro-1,2,2-trifluoroe	101		3.379					ND	
21	Iodomethane	142		3.519					ND	
22	Ethyl bromide	108		3.544					ND	
23	Carbon disulfide	76		3.629					ND	7
24	Methyl acetate	43		3.757					ND	
25	Acetonitrile	41		3.763					ND	
26	3-Chloro-1-propene	41		3.775					ND	
27	Methylene Chloride	84		3.952					ND	
* 28	t-Butyl alcohol-d10 (IS)	65	3.983	3.983	0.000	22	82722	50.0	50.0	
29	2-Methyl-2-propanol	59		4.086					ND	
31	Acrylonitrile	53		4.288					ND	
32	Methyl tert-butyl ether	73		4.330					ND	
33	trans-1,2-Dichloroethene	96		4.349					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 Hexane	57		4.769					ND	
36 1,1-Dichloroethane	63		5.007					ND	
35 Vinyl acetate	43		5.025					ND	
37 Isopropyl ether	45		5.062					ND	
38 2-Chloro-1,3-butadiene	53		5.117					ND	
40 Tert-butyl ethyl ether	59		5.604					ND	
41 2-Butanone (MEK)	43		5.812					ND	
42 cis-1,2-Dichloroethene	96		5.842					ND	
43 2,2-Dichloropropane	77		5.854					ND	
44 Propionitrile	54		5.897					ND	
45 Ethyl acetate	43		5.909					ND	
47 Methacrylonitrile	67		6.110					ND	
S 46 1,2-Dichloroethene, Total	100		6.155					ND	7
48 Chlorobromomethane	128		6.184					ND	
49 Tetrahydrofuran	71		6.190					ND	
50 Chloroform	83		6.336					ND	
51 Methyl acrylate	55		6.482					ND	
$ 52 Dibromofluoromethane (Surr)	113	6.561	6.549	0.012	94	385745	10.0	10.2	
53 1,1,1-Trichloroethane	97		6.562					ND	
54 Cyclohexane	56		6.671					ND	
56 Carbon tetrachloride	117		6.781					ND	
55 1,1-Dichloropropene	75		6.787					ND	
57 Isobutyl alcohol	41		6.946					ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.007	0.012	47	72544	10.0	9.43	
59 Benzene	78		7.043					ND	
60 1,2-Dichloroethane	62		7.116					ND	
61 Isopropyl acetate	43		7.147					ND	
63 Tert-amyl methyl ether	73		7.244					ND	
62 1-Chlorobutane	56	7.458	7.250	0.208	1	5229		NC	
* 64 Fluorobenzene (IS)	96	7.458	7.458	0.000	99	1538230	10.0	10.0	
65 n-Heptane	43		7.476					ND	
67 n-Butanol	56		7.836					ND	
66 t-Amyl alcohol	73		7.842					ND	
68 Trichloroethene	95		7.945					ND	
69 Methylcyclohexane	83		8.262					ND	
70 1,2-Dichloropropane	63		8.281					ND	
71 2-ethoxy-2-methyl butane	87		8.293					ND	
73 1,4-Dioxane	88		8.372					ND	
72 Methyl methacrylate	69		8.378					ND	
74 Dibromomethane	93		8.390					ND	
75 n-Propyl acetate	61		8.470					ND	
76 Dichlorobromomethane	83		8.634					ND	
77 2-Nitropropane	41		8.896					ND	
78 2-Chloroethyl vinyl ether	63		9.018					ND	
79 1-Bromo-2-chloroethane	63		9.031					ND	
80 cis-1,3-Dichloropropene	75		9.195					ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.372					ND	
81 Chloroacetonitrile	75		9.427					ND	
$ 83 Toluene-d8 (Surr)	98	9.518	9.518	0.000	93	1548688	10.0	10.0	
84 Toluene	92		9.598					ND	
85 trans-1,3-Dichloropropene	75		9.872					ND	
104 Ethyl methacrylate	69		9.939					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 105 1,3-Dichloropropene, Total	100		10.060					ND	7
106 1,1,2-Trichloroethane	97		10.079					ND	
107 Tetrachloroethene	166		10.171					ND	
108 1,3-Dichloropropane	76		10.250					ND	
109 2-Hexanone	43		10.299					ND	
110 n-Butyl acetate	43		10.439					ND	
111 Chlorodibromomethane	129		10.463					ND	
112 Ethylene Dibromide	107		10.579					ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1191870	10.0	10.0	
114 1-Chlorohexane	91		11.036					ND	7
115 Chlorobenzene	112		11.048					ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134					ND	
117 Ethylbenzene	91		11.140					ND	
S 118 Xylenes, Total	106		11.245					ND	7
119 m-Xylene & p-Xylene	106		11.256					ND	
120 o-Xylene	106		11.591					ND	
121 Styrene	104		11.603					ND	
122 Bromoform	173		11.762					ND	
123 Isopropylbenzene	105		11.896					ND	
124 cis-1,4-Dichloro-2-butene	88		11.945					ND	
125 Cyclohexanone	55		11.969					ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	94	547507	10.0	9.46	
127 1,1,2,2-Tetrachloroethane	83		12.140					ND	
128 Bromobenzene	156		12.152					ND	
129 trans-1,4-Dichloro-2-butene	53		12.164					ND	
130 1,2,3-Trichloropropane	110		12.188					ND	
131 N-Propylbenzene	91		12.225					ND	7
132 2-Chlorotoluene	126		12.304					ND	
133 1,3,5-Trimethylbenzene	105		12.365					ND	
134 4-Chlorotoluene	126		12.396					ND	
135 tert-Butylbenzene	134		12.609					ND	
136 Pentachloroethane	167		12.640					ND	
137 1,2,4-Trimethylbenzene	105		12.652					ND	7
138 sec-Butylbenzene	105		12.774					ND	7
139 1,3-Dichlorobenzene	146		12.871					ND	7
140 4-Isopropyltoluene	119		12.883					ND	7
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	94	656318	10.0	10.0	
142 1,4-Dichlorobenzene	146		12.944					ND	7
143 1,2,3-Trimethylbenzene	120		12.957					ND	7
144 Benzyl chloride	126		13.024					ND	
145 p-Diethylbenzene	119		13.158					ND	
146 n-Butylbenzene	92		13.176					ND	
147 1,2-Dichlorobenzene	146		13.207					ND	
148 Hexachloroethane	201		13.682					ND	
149 1,2-Dibromo-3-Chloropropane	155		13.755					ND	
150 1,3,5-Trichlorobenzene	180		13.877					ND	
151 1,2,4-Trichlorobenzene	180		14.304					ND	7
152 Hexachlorobutadiene	225	14.407	14.383	0.024	1	845		0.0513	
153 Naphthalene	128		14.481					ND	
154 1,2,3-Trichlorobenzene	180		14.627					ND	7
155 tert-Butyl Formate	1		0.000					ND	
156 Dodecane	57		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
157 Pentane	43		0.000					ND	
158 1,1-Dichloroacetone	1		0.000					ND	
159 n-Decane	57		0.000					ND	
160 1-Bromo-3-Chloropropane	1		0.000					ND	
161 1-Chloropropane	1		0.000					ND	
162 Propene oxide	1		0.000					ND	
163 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
164 Methylal	1		0.000					ND	
165 2-Bromo-1-chloropropane	1		0.000					ND	
209 1,1-Dichloro-1-fluoroethane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00013 Amount Added: 5.00 Units: uL Run Reagent

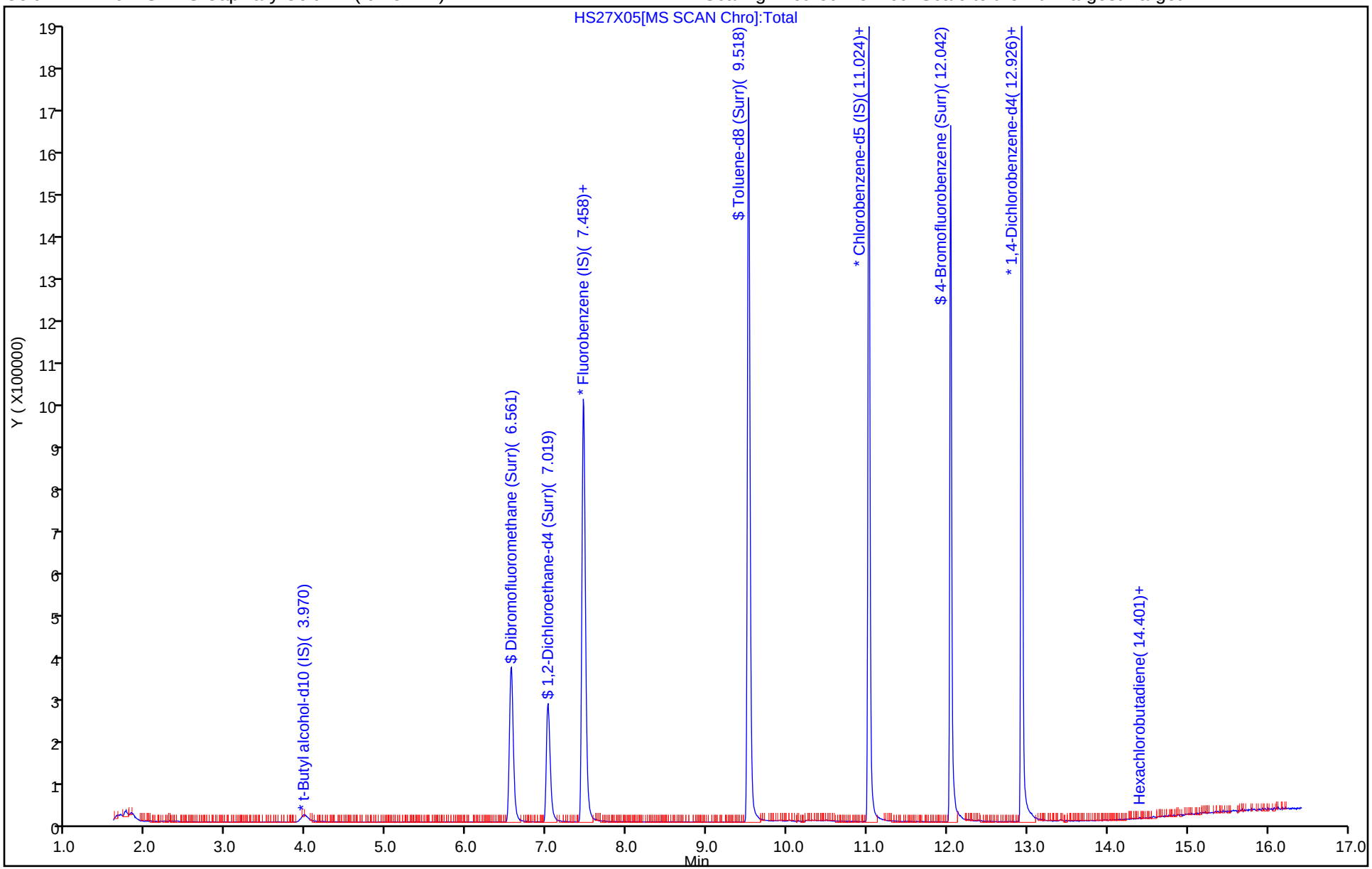
Report Date: 27-Sep-2024 20:48:40 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X05.D

Injection Date:	27-Sep-2024 20:01:30	Instrument ID:	19094	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_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 27-Sep-2024 20:01:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-006
Misc. Info.: MB
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 27-Sep-2024 20:48:24 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1652

First Level Reviewer: JS6E Date: 27-Sep-2024 20:48:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.2	102.40
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.43	94.28
$ 83 Toluene-d8 (Surr)	10.0	10.0	99.91
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.46	94.59

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-556727/4

Matrix: Water
Lab File ID: HS27X03.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 19:19

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.88		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.30		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.18		0.50	0.10
79-00-5	1,1,2-Trichloroethane	4.44		0.50	0.080
75-34-3	1,1-Dichloroethane	5.16		0.50	0.10
75-35-4	1,1-Dichloroethene	5.20		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.46		0.50	0.080
107-06-2	1,2-Dichloroethane	4.64		0.50	0.070
78-87-5	1,2-Dichloropropane	4.88		0.50	0.10
78-93-3	2-Butanone (MEK)	57.8		5.0	1.0
591-78-6	2-Hexanone	55.2		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	54.4		5.0	1.0
67-64-1	Acetone	51.6		5.0	1.5
71-43-2	Benzene	4.89		0.50	0.10
74-97-5	Bromochloromethane	4.85		0.50	0.080
75-27-4	Bromodichloromethane	4.87		0.50	0.080
75-25-2	Bromoform	4.41		1.0	0.30
74-83-9	Bromomethane	4.43		0.50	0.10
75-15-0	Carbon disulfide	5.00		1.0	0.10
56-23-5	Carbon tetrachloride	5.44		0.50	0.10
108-90-7	Chlorobenzene	4.79		0.50	0.070
75-00-3	Chloroethane	4.75		0.50	0.10
67-66-3	Chloroform	4.95		0.50	0.090
74-87-3	Chloromethane	3.89		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.95		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.55		0.50	0.10
124-48-1	Dibromochloromethane	4.70		0.50	0.080
100-41-4	Ethylbenzene	4.70		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.29		0.50	0.080
75-09-2	Methylene Chloride	4.48		0.50	0.20
100-42-5	Styrene	4.95		0.50	0.070
127-18-4	Tetrachloroethene	4.90		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-556727/4

Matrix: Water
Lab File ID: HS27X03.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 19:19

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	4.84		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	5.03		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	4.52		0.50	0.080
79-01-6	Trichloroethene	4.85		0.50	0.080
75-01-4	Vinyl chloride	4.26		0.50	0.10
1330-20-7	Xylenes, Total	15.1		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)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 27-Sep-2024 19:19:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-004
Misc. Info.: LCS
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 27-Sep-2024 20:48:24 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1652

First Level Reviewer: JS6E Date: 27-Sep-2024 19:43:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.873	1.861	0.012	99	154987	5.00	3.83	
5 Chloromethane	50	2.056	2.056	0.000	99	196840	5.00	3.89	
7 Butadiene	39	2.160	2.154	0.006	94	173945	5.00	4.02	
6 Vinyl chloride	62	2.166	2.166	0.000	97	197141	5.00	4.26	
9 Bromomethane	94	2.483	2.477	0.006	91	143883	5.00	4.43	
10 Chloroethane	64	2.544	2.538	0.006	99	128958	5.00	4.75	
11 Dichlorofluoromethane	67	2.757	2.757	0.000	97	301683	5.00	4.04	
12 Trichlorofluoromethane	101	2.849	2.849	0.000	97	235150	5.00	4.22	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.129	3.135	-0.006	93	184806	5.00	4.46	
17 1,1-Dichloroethene	96	3.342	3.337	0.005	98	149308	5.00	5.20	
19 Acetone	43	3.379	3.367	0.012	100	224919	62.5	51.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.373	3.379	-0.006	90	136318	5.00	4.83	
21 Iodomethane	142	3.525	3.519	0.006	100	258710	5.00	4.54	
23 Carbon disulfide	76	3.629	3.629	0.000	99	409119	5.00	5.00	
24 Methyl acetate	43	3.775	3.757	0.018	33	40668	5.00	3.45	
26 3-Chloro-1-propene	41	3.788	3.775	0.013	93	230616	5.00	4.62	
27 Methylene Chloride	84	3.958	3.952	0.006	93	160305	5.00	4.48	
* 28 t-Butyl alcohol-d10 (IS)	65	3.983	3.983	0.000	98	81841	50.0	50.0	
29 2-Methyl-2-propanol	59	4.105	4.086	0.019	87	72383	50.0	60.5	
31 Acrylonitrile	53	4.287	4.288	-0.001	98	126304	25.0	21.4	
32 Methyl tert-butyl ether	73	4.342	4.330	0.012	95	338146	5.00	4.29	
33 trans-1,2-Dichloroethene	96	4.354	4.349	0.005	99	168740	5.00	5.03	
34 Hexane	57	4.775	4.769	0.006	91	194337	5.00	4.90	
36 1,1-Dichloroethane	63	5.007	5.007	0.000	96	330910	5.00	5.16	
37 Isopropyl ether	45	5.062	5.062	0.000	94	460377	5.00	4.35	
38 2-Chloro-1,3-butadiene	53	5.123	5.117	0.006	90	231558	5.00	4.57	
40 Tert-butyl ethyl ether	59	5.610	5.604	0.006	97	443315	5.00	4.51	
41 2-Butanone (MEK)	43	5.818	5.812	0.006	99	415927	62.5	57.8	
42 cis-1,2-Dichloroethene	96	5.848	5.842	0.006	82	189406	5.00	4.95	
43 2,2-Dichloropropane	77	5.860	5.854	0.006	73	278116	5.00	5.22	
44 Propionitrile	54	5.927	5.897	0.030	97	53362	37.5	27.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
47 Methacrylonitrile	67	6.122	6.110	0.012	90	268497	37.5	32.6	
48 Chlorobromomethane	128	6.177	6.184	-0.007	93	78408	5.00	4.85	
49 Tetrahydrofuran	71	6.208	6.190	0.018	79	46370	25.0	21.9	
50 Chloroform	83	6.336	6.336	0.000	93	315508	5.00	4.95	
$ 52 Dibromofluoromethane (Surr)	113	6.555	6.549	0.006	94	394179	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.567	6.562	0.005	97	287886	5.00	5.30	
54 Cyclohexane	56	6.671	6.671	0.000	89	252928	5.00	4.70	
56 Carbon tetrachloride	117	6.787	6.781	0.006	96	257678	5.00	5.44	
55 1,1-Dichloropropene	75	6.787	6.787	0.000	98	243747	5.00	5.04	
57 Isobutyl alcohol	41	6.952	6.946	0.006	93	56922	125.0	147.9	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.007	0.005	96	75316	10.0	9.46	
59 Benzene	78	7.049	7.043	0.006	97	716307	5.00	4.89	
60 1,2-Dichloroethane	62	7.116	7.116	0.000	97	178795	5.00	4.64	
63 Tert-amyl methyl ether	73	7.244	7.244	0.000	99	383489	5.00	4.42	
* 64 Fluorobenzene (IS)	96	7.458	7.458	0.000	98	1591120	10.0	10.0	
65 n-Heptane	43	7.476	7.476	0.000	91	194581	5.00	4.81	
67 n-Butanol	56	7.860	7.836	0.024	89	73242	250.0	242.5	
68 Trichloroethene	95	7.951	7.945	0.006	98	187140	5.00	4.85	
69 Methylcyclohexane	83	8.262	8.262	0.000	92	274321	5.00	5.02	
70 1,2-Dichloropropane	63	8.281	8.281	0.000	96	180813	5.00	4.88	
71 2-ethoxy-2-methyl butane	87	8.299	8.293	0.006	94	255009	5.00	4.69	
73 1,4-Dioxane	88	8.396	8.372	0.024	30	12380	125.0	186.5	
72 Methyl methacrylate	69	8.384	8.378	0.006	86	61185	5.00	3.95	
74 Dibromomethane	93	8.396	8.390	0.006	94	77954	5.00	4.53	
76 Dichlorobromomethane	83	8.634	8.634	0.000	99	218113	5.00	4.87	
77 2-Nitropropane	41	8.902	8.896	0.006	95	20411	5.00	4.03	M
79 1-Bromo-2-chloroethane	63	9.030	9.031	-0.001	99	158172	5.00	4.86	
80 cis-1,3-Dichloropropene	75	9.201	9.195	0.006	96	248130	5.00	4.55	
82 4-Methyl-2-pentanone (MIBK)	43	9.378	9.372	0.006	96	1094487	62.5	54.4	
$ 83 Toluene-d8 (Surr)	98	9.518	9.518	0.000	93	1634974	10.0	10.1	
84 Toluene	92	9.603	9.598	0.005	99	475277	5.00	4.84	
85 trans-1,3-Dichloropropene	75	9.878	9.872	0.006	93	206979	5.00	4.52	
104 Ethyl methacrylate	69	9.945	9.939	0.006	88	134357	5.00	4.06	
106 1,1,2-Trichloroethane	97	10.079	10.079	0.000	91	115976	5.00	4.44	
107 Tetrachloroethene	166	10.170	10.171	-0.001	98	223574	5.00	4.90	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	88	200994	5.00	4.53	
109 2-Hexanone	43	10.305	10.299	0.006	96	734167	62.5	55.2	
111 Chlorodibromomethane	129	10.469	10.463	0.006	90	151385	5.00	4.70	
112 Ethylene Dibromide	107	10.579	10.579	0.000	100	108152	5.00	4.46	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1241547	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	97	244959	5.00	4.47	
115 Chlorobenzene	112	11.048	11.048	0.000	96	515916	5.00	4.79	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	97	183850	5.00	4.88	
117 Ethylbenzene	91	11.140	11.140	0.000	98	895448	5.00	4.70	
119 m-Xylene & p-Xylene	106	11.256	11.256	0.000	99	734165	10.0	10.2	
120 o-Xylene	106	11.591	11.591	0.000	96	350959	5.00	4.92	
121 Styrene	104	11.609	11.603	0.006	95	547700	5.00	4.95	
122 Bromoform	173	11.768	11.762	0.006	98	89113	5.00	4.41	
123 Isopropylbenzene	105	11.896	11.896	0.000	95	929238	5.00	5.40	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	94	591536	10.0	9.81	
127 1,1,2,2-Tetrachloroethane	83	12.140	12.140	0.000	93	137800	5.00	4.18	
128 Bromobenzene	156	12.158	12.152	0.006	96	217185	5.00	4.53	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
129 trans-1,4-Dichloro-2-butene	53	12.170	12.164	0.006	91	152757	25.0	19.0	
130 1,2,3-Trichloropropane	110	12.188	12.188	0.000	81	36890	5.00	4.33	
131 N-Propylbenzene	91	12.225	12.225	0.000	99	1079870	5.00	4.71	
132 2-Chlorotoluene	126	12.304	12.304	0.000	97	222558	5.00	4.74	
133 1,3,5-Trimethylbenzene	105	12.365	12.365	0.000	94	779167	5.00	4.84	
134 4-Chlorotoluene	126	12.396	12.396	0.000	97	226991	5.00	4.78	
135 tert-Butylbenzene	134	12.609	12.609	0.000	92	167384	5.00	4.65	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	97	782663	5.00	4.85	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	1001615	5.00	5.04	
139 1,3-Dichlorobenzene	146	12.871	12.871	0.000	98	435280	5.00	4.81	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	862053	5.00	5.02	
* 141 1,4-Dichlorobenzene-d4	152	12.926	12.926	0.000	94	727739	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.944	12.944	0.000	96	441608	5.00	4.72	
143 1,2,3-Trimethylbenzene	120	12.956	12.957	-0.001	98	346315	5.00	4.75	
144 Benzyl chloride	126	13.024	13.024	0.000	98	57700	5.00	4.56	
145 p-Diethylbenzene	119	13.158	13.158	0.000	94	518722	5.00	5.18	
146 n-Butylbenzene	92	13.176	13.176	0.000	97	405401	5.00	5.17	
147 1,2-Dichlorobenzene	146	13.206	13.207	-0.001	98	395143	5.00	4.77	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.755	0.006	88	18220	5.00	4.15	
150 1,3,5-Trichlorobenzene	180	13.883	13.877	0.006	98	321904	5.00	5.20	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	257605	5.00	5.33	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	94	125994	5.00	6.90	
153 Naphthalene	128	14.487	14.481	0.006	97	401656	5.00	4.95	
154 1,2,3-Trichlorobenzene	180	14.627	14.627	0.000	96	206692	5.00	5.31	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00186	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00223	Amount Added: 12.50	Units: uL	
MSV_LLcentISS_00013	Amount Added: 5.00	Units: uL	Run Reagent

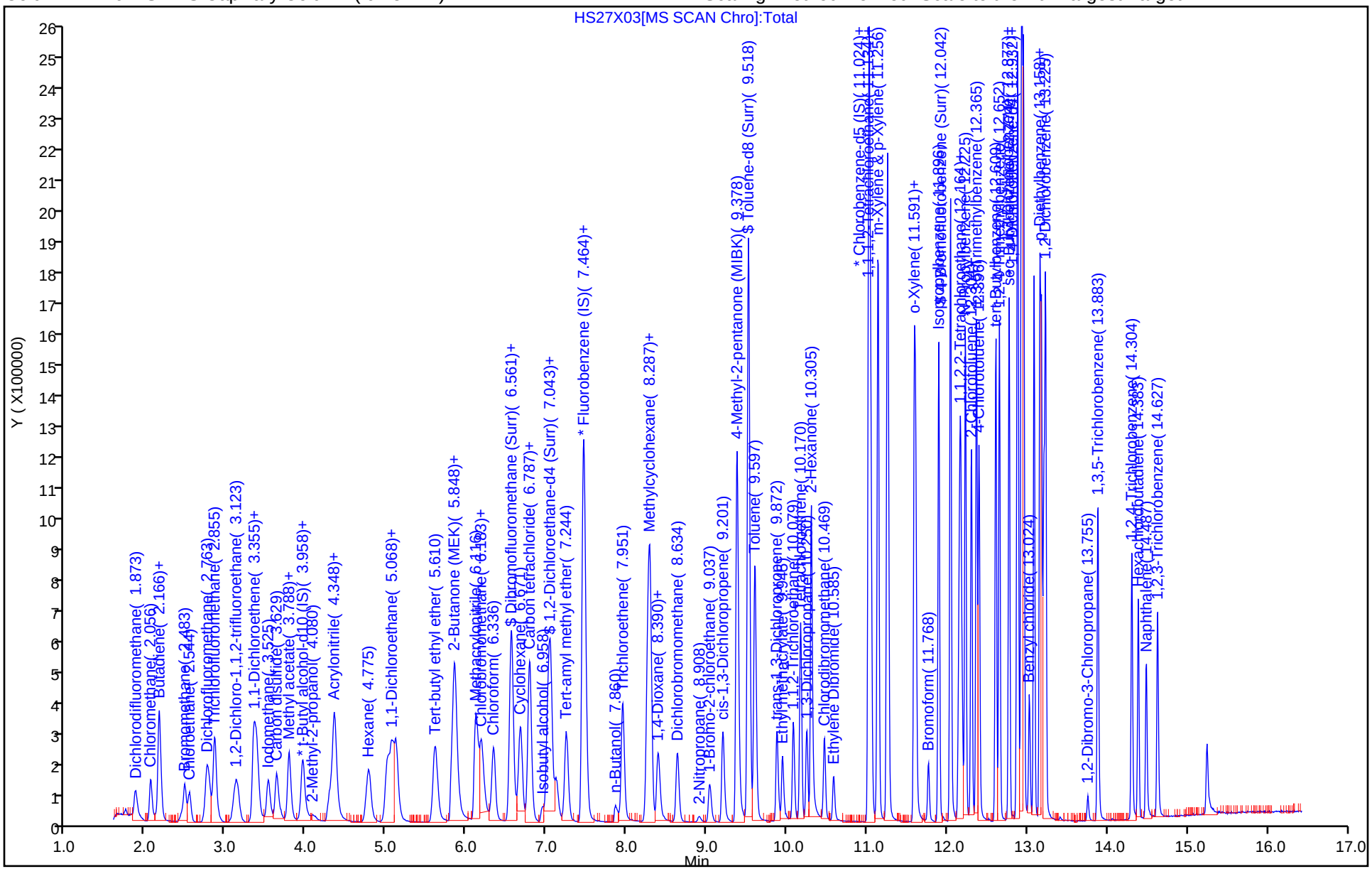
Report Date: 27-Sep-2024 20:48:28 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X03.D

Injection Date:	27-Sep-2024 19:19:30	Instrument ID:	19094	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_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X03.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	27-Sep-2024 19:19:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-004				
Misc. Info.:	LCS				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	27-Sep-2024 20:48:24	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1652				

First Level Reviewer: JS6E Date: 27-Sep-2024 19:43:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.1	101.16
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.46	94.63
$ 83 Toluene-d8 (Surr)	10.0	10.1	101.26
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.81	98.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS Lab Sample ID: 410-189680-6 MS

Matrix: Water Lab File ID: HS27X13.D

Analysis Method: 8260D Date Collected: 09/23/2024 13:00

Sample wt/vol: 25(mL) Date Analyzed: 09/27/2024 22:47

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.: 556727 Units: ug/L

Preparation Batch No.: Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.17		0.50	0.070
71-55-6	1,1,1-Trichloroethane	6.16		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.37		0.50	0.10
79-00-5	1,1,2-Trichloroethane	4.55		0.50	0.080
75-34-3	1,1-Dichloroethane	5.61		0.50	0.10
75-35-4	1,1-Dichloroethene	6.17		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.62		0.50	0.080
107-06-2	1,2-Dichloroethane	4.93		0.50	0.070
78-87-5	1,2-Dichloropropane	5.25		0.50	0.10
78-93-3	2-Butanone (MEK)	53.0		5.0	1.0
591-78-6	2-Hexanone	51.2		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	51.5		5.0	1.0
67-64-1	Acetone	49.1		5.0	1.5
71-43-2	Benzene	5.36		0.50	0.10
74-97-5	Bromochloromethane	5.20		0.50	0.080
75-27-4	Bromodichloromethane	5.18		0.50	0.080
75-25-2	Bromoform	4.65		1.0	0.30
74-83-9	Bromomethane	5.21		0.50	0.10
75-15-0	Carbon disulfide	5.70		1.0	0.10
56-23-5	Carbon tetrachloride	6.24		0.50	0.10
108-90-7	Chlorobenzene	5.20		0.50	0.070
75-00-3	Chloroethane	5.57		0.50	0.10
67-66-3	Chloroform	5.56		0.50	0.090
74-87-3	Chloromethane	4.71		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	6.19		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.74		0.50	0.10
124-48-1	Dibromochloromethane	4.95		0.50	0.080
100-41-4	Ethylbenzene	5.17		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.63		0.50	0.080
75-09-2	Methylene Chloride	5.00		0.50	0.20
100-42-5	Styrene	5.35		0.50	0.070
127-18-4	Tetrachloroethene	9.51		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS
Lab Sample ID: 410-189680-6 MS

Matrix: Water
Lab File ID: HS27X13.D

Analysis Method: 8260D
Date Collected: 09/23/2024 13:00

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 22:47

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.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	5.16		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	5.68		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	4.76		0.50	0.080
79-01-6	Trichloroethene	6.12		0.50	0.080
75-01-4	Vinyl chloride	5.10		0.50	0.10
1330-20-7	Xylenes, Total	16.2		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X13.D
Lims ID: 410-189680-A-6 MS
Client ID: HD-COD-SW-15-0/1-0 MS
Sample Type: MS
Inject. Date: 27-Sep-2024 22:47:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-014
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Sep-2024 08:47:21 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:51:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.873	1.861	0.012	99	200074	5.00	5.14	
5 Chloromethane	50	2.062	2.056	0.006	99	228582	5.00	4.71	
7 Butadiene	39	2.166	2.154	0.012	94	214150	5.00	5.15	
6 Vinyl chloride	62	2.172	2.166	0.006	98	227037	5.00	5.10	
9 Bromomethane	94	2.489	2.477	0.012	91	162507	5.00	5.21	
10 Chloroethane	64	2.544	2.538	0.006	100	145255	5.00	5.57	
11 Dichlorofluoromethane	67	2.770	2.757	0.013	97	335970	5.00	4.69	
12 Trichlorofluoromethane	101	2.849	2.849	0.000	98	296569	5.00	5.54	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.129	3.135	-0.006	92	219705	5.00	5.52	
17 1,1-Dichloroethene	96	3.349	3.337	0.012	98	170234	5.00	6.17	
19 Acetone	43	3.379	3.367	0.012	96	225477	62.6	49.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.379	3.379	0.000	91	162691	5.00	6.00	
21 Iodomethane	142	3.526	3.519	0.007	99	280305	5.00	5.12	
23 Carbon disulfide	76	3.635	3.629	0.006	99	447968	5.00	5.70	
24 Methyl acetate	43	3.782	3.757	0.025	32	49543	5.00	3.98	
26 3-Chloro-1-propene	41	3.788	3.775	0.013	93	241882	5.00	5.04	
27 Methylene Chloride	84	3.952	3.952	0.000	93	171790	5.00	5.00	
* 28 t-Butyl alcohol-d10 (IS)	65	3.995	3.983	0.012	98	86353	50.0	50.0	
29 2-Methyl-2-propanol	59	4.105	4.086	0.019	98	69212	50.0	54.8	
31 Acrylonitrile	53	4.294	4.288	0.006	99	120835	25.0	19.4	
32 Methyl tert-butyl ether	73	4.342	4.330	0.012	94	350590	5.00	4.63	
33 trans-1,2-Dichloroethene	96	4.355	4.349	0.006	99	183250	5.00	5.68	
34 Hexane	57	4.788	4.769	0.019	91	234308	5.00	6.16	
36 1,1-Dichloroethane	63	5.007	5.007	0.000	96	345714	5.00	5.61	
37 Isopropyl ether	45	5.080	5.062	0.018	96	470336	5.00	4.63	
38 2-Chloro-1,3-butadiene	53	5.129	5.117	0.012	90	252501	5.00	5.18	
40 Tert-butyl ethyl ether	59	5.617	5.604	0.013	98	446636	5.00	4.73	
41 2-Butanone (MEK)	43	5.824	5.812	0.012	100	402172	62.6	53.0	
42 cis-1,2-Dichloroethene	96	5.854	5.842	0.012	81	227277	5.00	6.19	
43 2,2-Dichloropropane	77	5.867	5.854	0.013	84	297173	5.00	5.81	
44 Propionitrile	54	5.928	5.897	0.031	96	49579	37.5	25.0	
47 Methacrylonitrile	67	6.123	6.110	0.013	90	266289	37.5	30.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
48 Chlorobromomethane	128	6.190	6.184	0.006	92	80615	5.00	5.20	
49 Tetrahydrofuran	71	6.214	6.190	0.024	74	47265	25.0	21.2	
50 Chloroform	83	6.342	6.336	0.006	93	340336	5.00	5.56	
$ 52 Dibromofluoromethane (Surr)	113	6.555	6.549	0.006	94	382884	10.0	10.2	
53 1,1,1-Trichloroethane	97	6.574	6.562	0.012	98	321452	5.00	6.16	
54 Cyclohexane	56	6.677	6.671	0.006	89	295909	5.00	5.73	
56 Carbon tetrachloride	117	6.787	6.781	0.006	95	283715	5.00	6.24	
55 1,1-Dichloropropene	75	6.793	6.787	0.006	97	264200	5.00	5.69	
57 Isobutyl alcohol	41	6.946	6.946	0.000	92	49353	125.1	121.5	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.007	0.012	95	70825	10.0	9.26	
59 Benzene	78	7.049	7.043	0.006	97	753991	5.00	5.36	
60 1,2-Dichloroethane	62	7.122	7.116	0.006	98	182356	5.00	4.93	
63 Tert-amyl methyl ether	73	7.250	7.244	0.006	99	387542	5.00	4.65	
* 64 Fluorobenzene (IS)	96	7.464	7.458	0.006	98	1528206	10.0	10.0	
65 n-Heptane	43	7.482	7.476	0.006	82	233046	5.00	5.99	
67 n-Butanol	56	7.860	7.836	0.024	87	75209	250.2	237.0	
68 Trichloroethene	95	7.945	7.945	0.000	98	226978	5.00	6.12	
69 Methylcyclohexane	83	8.262	8.262	0.000	92	323063	5.00	6.15	
70 1,2-Dichloropropane	63	8.281	8.281	0.000	96	186673	5.00	5.25	
71 2-ethoxy-2-methyl butane	87	8.299	8.293	0.006	96	266238	5.00	5.10	
73 1,4-Dioxane	88	8.397	8.372	0.025	31	10431	125.1	153.3	
72 Methyl methacrylate	69	8.390	8.378	0.012	89	54855	5.00	3.36	
74 Dibromomethane	93	8.397	8.390	0.007	95	77505	5.00	4.69	
76 Dichlorobromomethane	83	8.634	8.634	0.000	99	222704	5.00	5.18	
77 2-Nitropropane	41	8.909	8.896	0.013	99	17305	5.00	3.24	
79 1-Bromo-2-chloroethane	63	9.037	9.031	0.006	98	163460	5.00	5.22	
80 cis-1,3-Dichloropropene	75	9.201	9.195	0.006	97	247951	5.00	4.74	
82 4-Methyl-2-pentanone (MIBK)	43	9.378	9.372	0.006	96	1092041	62.6	51.5	
$ 83 Toluene-d8 (Surr)	98	9.518	9.518	0.000	93	1575616	10.0	10.1	
84 Toluene	92	9.604	9.598	0.006	98	490624	5.00	5.16	
85 trans-1,3-Dichloropropene	75	9.872	9.872	0.000	92	211036	5.00	4.76	
104 Ethyl methacrylate	69	9.945	9.939	0.006	89	134067	5.00	4.18	
106 1,1,2-Trichloroethane	97	10.079	10.079	0.000	91	114960	5.00	4.55	
107 Tetrachloroethene	166	10.171	10.171	0.000	98	420264	5.00	9.51	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	89	209018	5.00	4.86	
109 2-Hexanone	43	10.305	10.299	0.006	96	718009	62.6	51.2	
111 Chlorodibromomethane	129	10.469	10.463	0.006	90	154434	5.00	4.95	
112 Ethylene Dibromide	107	10.585	10.579	0.006	98	108477	5.00	4.62	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1203020	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	96	265206	5.00	5.00	
115 Chlorobenzene	112	11.048	11.048	0.000	96	542771	5.00	5.20	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	96	188919	5.00	5.17	
117 Ethylbenzene	91	11.140	11.140	0.000	98	953689	5.00	5.17	
119 m-Xylene & p-Xylene	106	11.256	11.256	0.000	99	772755	10.0	11.0	
120 o-Xylene	106	11.591	11.591	0.000	96	359250	5.00	5.20	
121 Styrene	104	11.609	11.603	0.006	95	573625	5.00	5.35	
122 Bromoform	173	11.768	11.762	0.006	97	91158	5.00	4.65	
123 Isopropylbenzene	105	11.896	11.896	0.000	95	965747	5.00	5.79	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	95	575924	10.0	9.86	
127 1,1,2,2-Tetrachloroethane	83	12.140	12.140	0.000	94	138934	5.00	4.37	
128 Bromobenzene	156	12.158	12.152	0.006	94	226825	5.00	4.90	
129 trans-1,4-Dichloro-2-butene	53	12.170	12.164	0.006	94	155296	25.0	18.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
130 1,2,3-Trichloropropane	110	12.189	12.188	0.000	81	37026	5.00	4.50	
131 N-Propylbenzene	91	12.225	12.225	0.000	98	1149866	5.00	5.20	
132 2-Chlorotoluene	126	12.304	12.304	0.000	97	227473	5.00	5.02	
133 1,3,5-Trimethylbenzene	105	12.365	12.365	0.000	96	813685	5.00	5.23	
134 4-Chlorotoluene	126	12.396	12.396	0.000	97	236502	5.00	5.16	
135 tert-Butylbenzene	134	12.609	12.609	0.000	92	177498	5.00	5.11	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	97	820371	5.00	5.27	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	1046388	5.00	5.45	
139 1,3-Dichlorobenzene	146	12.871	12.871	0.000	98	459436	5.00	5.26	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	906713	5.00	5.47	
* 141 1,4-Dichlorobenzene-d4	152	12.926	12.926	0.000	94	702583	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.944	12.944	0.000	95	456002	5.00	5.05	
143 1,2,3-Trimethylbenzene	120	12.957	12.957	0.000	98	353233	5.00	5.01	
144 Benzyl chloride	126	13.024	13.024	0.000	98	59506	5.00	4.87	
145 p-Diethylbenzene	119	13.158	13.158	0.000	94	551787	5.00	5.71	
146 n-Butylbenzene	92	13.176	13.176	0.000	97	426457	5.00	5.63	
147 1,2-Dichlorobenzene	146	13.207	13.207	0.000	99	417167	5.00	5.22	
149 1,2-Dibromo-3-Chloropropane	155	13.755	13.755	0.000	86	17749	5.00	4.19	
150 1,3,5-Trichlorobenzene	180	13.883	13.877	0.006	97	324684	5.00	5.43	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	258525	5.00	5.54	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	94	129527	5.00	7.35	
153 Naphthalene	128	14.487	14.481	0.006	97	395500	5.00	5.05	
154 1,2,3-Trichlorobenzene	180	14.627	14.627	0.000	95	204525	5.00	5.44	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

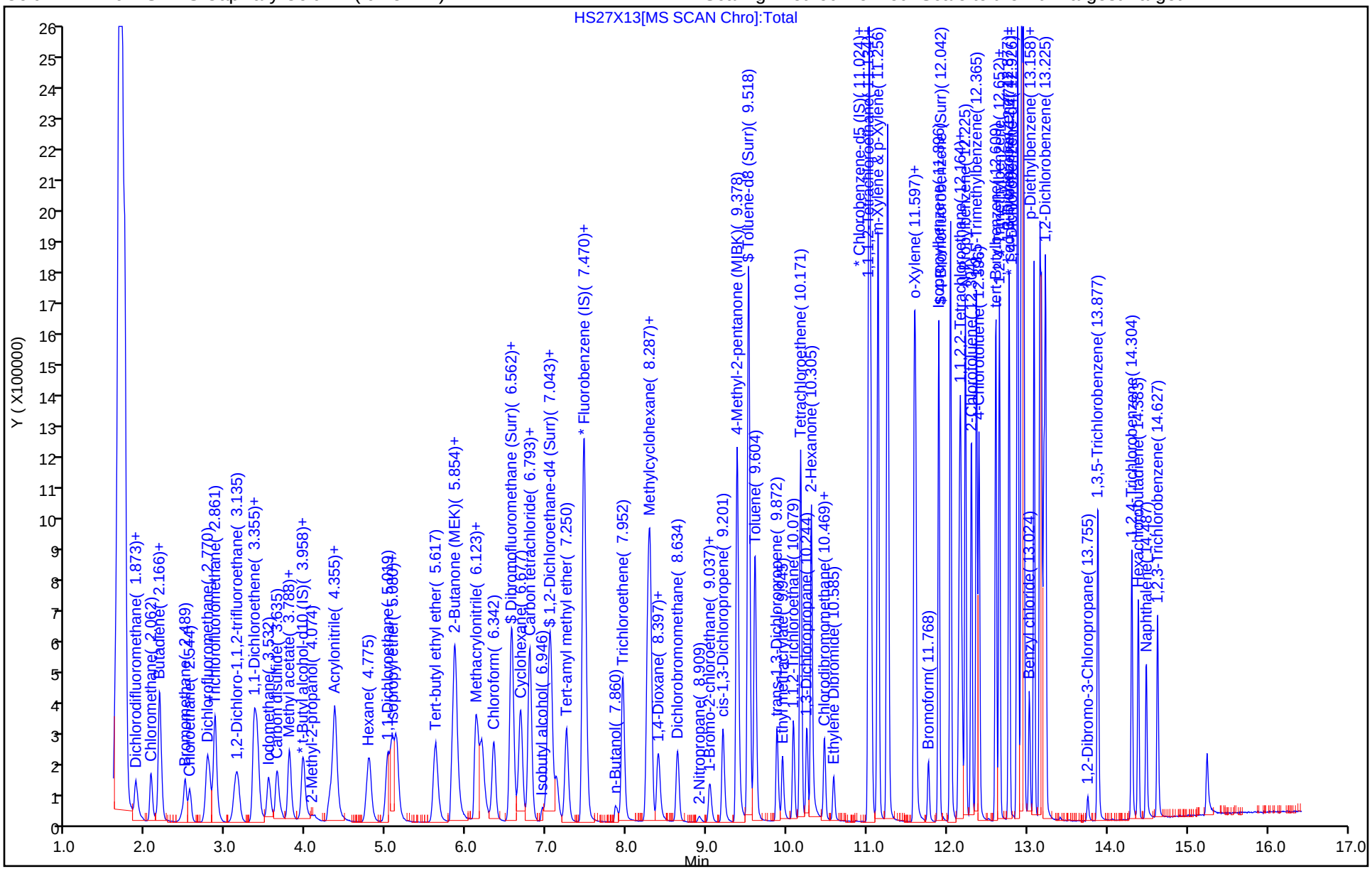
MSV_LLcentISS_00013	Amount Added:	5.00	Units: uL	Run Reagent
MSV_LCS_VOC#1_00186	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00223	Amount Added:	5.38	Units: uL	

Report Date: 30-Sep-2024 08:51:29 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X13.D				
Injection Date:	27-Sep-2024 22:47:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	410-189680-A-6 MS			Worklist Smp#:	14
Client ID:	HD-COD-SW-15-0/1-0 MS				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X13.D				
Lims ID:	410-189680-A-6 MS				
Client ID:	HD-COD-SW-15-0/1-0 MS				
Sample Type:	MS				
Inject. Date:	27-Sep-2024 22:47:30	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126208-014				
Operator ID:	gaw91131	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Sep-2024 08:47:21	Calib Date:	17-Jul-2024 19:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:51:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.2	102.31
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.26	92.65
$ 83 Toluene-d8 (Surr)	10.0	10.1	100.71
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.86	98.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD MSD
Lab Sample ID: 410-189680-6 MSD

Matrix: Water
Lab File ID: HS27X14.D

Analysis Method: 8260D
Date Collected: 09/23/2024 13:00

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 23:07

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.05		0.50	0.070
71-55-6	1,1,1-Trichloroethane	6.05		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.40		0.50	0.10
79-00-5	1,1,2-Trichloroethane	4.68		0.50	0.080
75-34-3	1,1-Dichloroethane	5.54		0.50	0.10
75-35-4	1,1-Dichloroethene	6.23		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.53		0.50	0.080
107-06-2	1,2-Dichloroethane	4.97		0.50	0.070
78-87-5	1,2-Dichloropropane	5.23		0.50	0.10
78-93-3	2-Butanone (MEK)	51.8		5.0	1.0
591-78-6	2-Hexanone	51.8		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	50.5		5.0	1.0
67-64-1	Acetone	48.4		5.0	1.5
71-43-2	Benzene	5.29		0.50	0.10
74-97-5	Bromochloromethane	5.32		0.50	0.080
75-27-4	Bromodichloromethane	5.18		0.50	0.080
75-25-2	Bromoform	4.66		1.0	0.30
74-83-9	Bromomethane	4.95		0.50	0.10
75-15-0	Carbon disulfide	5.60		1.0	0.10
56-23-5	Carbon tetrachloride	6.13		0.50	0.10
108-90-7	Chlorobenzene	5.13		0.50	0.070
75-00-3	Chloroethane	5.21		0.50	0.10
67-66-3	Chloroform	5.36		0.50	0.090
74-87-3	Chloromethane	4.49		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.96		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.81		0.50	0.10
124-48-1	Dibromochloromethane	4.89		0.50	0.080
100-41-4	Ethylbenzene	5.07		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.60		0.50	0.080
75-09-2	Methylene Chloride	4.81		0.50	0.20
100-42-5	Styrene	5.20		0.50	0.070

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189680-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD MSD
Lab Sample ID: 410-189680-6 MSD

Matrix: Water
Lab File ID: HS27X14.D

Analysis Method: 8260D
Date Collected: 09/23/2024 13:00

Sample wt/vol: 25(mL)
Date Analyzed: 09/27/2024 23:07

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 556727
Units: ug/L

Preparation Batch No.:
Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	9.13		0.50	0.20
108-88-3	Toluene	5.10		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	5.58		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	4.73		0.50	0.080
79-01-6	Trichloroethene	6.08		0.50	0.080
75-01-4	Vinyl chloride	5.11		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)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X14.D
Lims ID: 410-189680-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0 MSD
Sample Type: MSD
Inject. Date: 27-Sep-2024 23:07:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-015
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Sep-2024 08:47:21 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:52:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.867	1.861	0.006	99	197486	5.00	5.03	
5 Chloromethane	50	2.056	2.056	0.000	99	219820	5.00	4.49	
7 Butadiene	39	2.160	2.154	0.006	92	206826	5.00	4.93	
6 Vinyl chloride	62	2.166	2.166	0.000	97	229654	5.00	5.11	
9 Bromomethane	94	2.489	2.477	0.012	92	155638	5.00	4.95	
10 Chloroethane	64	2.538	2.538	0.000	99	136997	5.00	5.21	
11 Dichlorofluoromethane	67	2.757	2.757	0.000	97	329820	5.00	4.56	
12 Trichlorofluoromethane	101	2.849	2.849	0.000	98	290263	5.00	5.37	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.129	3.135	-0.006	91	214072	5.00	5.33	
17 1,1-Dichloroethene	96	3.343	3.337	0.005	98	173486	5.00	6.23	
19 Acetone	43	3.367	3.367	0.000	93	227334	62.6	48.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.385	3.379	0.006	91	161658	5.00	5.90	
21 Iodomethane	142	3.525	3.519	0.006	99	279861	5.00	5.06	
23 Carbon disulfide	76	3.629	3.629	0.000	99	444284	5.00	5.60	
24 Methyl acetate	43	3.788	3.757	0.031	30	50190	5.00	3.94	
26 3-Chloro-1-propene	41	3.781	3.775	0.006	93	244722	5.00	5.05	
27 Methylene Chloride	84	3.958	3.952	0.006	92	166687	5.00	4.81	
* 28 t-Butyl alcohol-d10 (IS)	65	3.977	3.983	-0.006	97	88296	50.0	50.0	
29 2-Methyl-2-propanol	59	4.092	4.086	0.006	99	68801	50.0	53.3	
31 Acrylonitrile	53	4.281	4.288	-0.007	96	121772	25.0	19.1	
32 Methyl tert-butyl ether	73	4.342	4.330	0.012	89	351688	5.00	4.60	
33 trans-1,2-Dichloroethene	96	4.348	4.349	-0.001	99	181614	5.00	5.58	
34 Hexane	57	4.775	4.769	0.006	92	234843	5.00	6.11	
36 1,1-Dichloroethane	63	5.013	5.007	0.006	96	344715	5.00	5.54	
37 Isopropyl ether	45	5.068	5.062	0.006	95	468388	5.00	4.56	
38 2-Chloro-1,3-butadiene	53	5.129	5.117	0.012	90	256940	5.00	5.23	
40 Tert-butyl ethyl ether	59	5.604	5.604	0.000	97	442612	5.00	4.64	
41 2-Butanone (MEK)	43	5.818	5.812	0.006	99	402276	62.6	51.8	
42 cis-1,2-Dichloroethene	96	5.854	5.842	0.012	82	221017	5.00	5.96	
43 2,2-Dichloropropane	77	5.860	5.854	0.006	87	295225	5.00	5.72	
44 Propionitrile	54	5.940	5.897	0.043	96	49562	37.5	24.6	
47 Methacrylonitrile	67	6.122	6.110	0.012	90	275385	37.5	31.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
48 Chlorobromomethane	128	6.190	6.184	0.006	94	83287	5.00	5.32	
49 Tetrahydrofuran	71	6.202	6.190	0.012	79	50213	25.0	22.0	
50 Chloroform	83	6.336	6.336	0.000	92	331101	5.00	5.36	
$ 52 Dibromofluoromethane (Surr)	113	6.555	6.549	0.006	94	388529	10.0	10.3	
53 1,1,1-Trichloroethane	97	6.574	6.562	0.012	97	318373	5.00	6.05	
54 Cyclohexane	56	6.671	6.671	0.000	89	293520	5.00	5.63	
56 Carbon tetrachloride	117	6.787	6.781	0.006	96	281471	5.00	6.13	
55 1,1-Dichloropropene	75	6.793	6.787	0.006	96	267068	5.00	5.70	
57 Isobutyl alcohol	41	6.952	6.946	0.006	92	47644	125.1	114.7	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.007	0.006	97	75639	10.0	9.80	
59 Benzene	78	7.049	7.043	0.006	96	751286	5.00	5.29	
60 1,2-Dichloroethane	62	7.128	7.116	0.012	98	185570	5.00	4.97	
63 Tert-amyl methyl ether	73	7.244	7.244	0.000	99	386104	5.00	4.59	
* 64 Fluorobenzene (IS)	96	7.458	7.458	0.000	98	1542537	10.0	10.0	
65 n-Heptane	43	7.488	7.476	0.012	89	240879	5.00	6.14	
67 n-Butanol	56	7.860	7.836	0.024	87	82511	250.2	251.5	
68 Trichloroethene	95	7.951	7.945	0.006	97	227376	5.00	6.08	
69 Methylcyclohexane	83	8.256	8.262	-0.006	92	320452	5.00	6.04	
70 1,2-Dichloropropane	63	8.281	8.281	0.000	96	187730	5.00	5.23	
71 2-ethoxy-2-methyl butane	87	8.299	8.293	0.006	94	261646	5.00	4.96	
73 1,4-Dioxane	88	8.390	8.372	0.018	30	10218	125.1	147.8	
72 Methyl methacrylate	69	8.384	8.378	0.006	84	61469	5.00	3.68	
74 Dibromomethane	93	8.396	8.390	0.006	95	82641	5.00	4.95	
76 Dichlorobromomethane	83	8.634	8.634	0.000	99	224552	5.00	5.18	
77 2-Nitropropane	41	8.902	8.896	0.006	98	20204	5.00	3.70	
79 1-Bromo-2-chloroethane	63	9.037	9.031	0.006	99	166416	5.00	5.27	
80 cis-1,3-Dichloropropene	75	9.201	9.195	0.006	97	254194	5.00	4.81	
82 4-Methyl-2-pentanone (MIBK)	43	9.378	9.372	0.006	96	1094836	62.6	50.5	
$ 83 Toluene-d8 (Surr)	98	9.518	9.518	0.000	93	1582144	10.0	9.99	
84 Toluene	92	9.597	9.598	-0.001	99	491204	5.00	5.10	
85 trans-1,3-Dichloropropene	75	9.878	9.872	0.006	91	212570	5.00	4.73	
104 Ethyl methacrylate	69	9.945	9.939	0.006	88	137796	5.00	4.24	
106 1,1,2-Trichloroethane	97	10.079	10.079	0.000	90	119703	5.00	4.68	
107 Tetrachloroethene	166	10.170	10.171	-0.001	98	408771	5.00	9.13	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	89	205047	5.00	4.71	
109 2-Hexanone	43	10.305	10.299	0.006	96	743386	62.6	51.8	
111 Chlorodibromomethane	129	10.469	10.463	0.006	91	154584	5.00	4.89	
112 Ethylene Dibromide	107	10.585	10.579	0.006	99	107721	5.00	4.53	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1218359	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	96	263956	5.00	4.91	
115 Chlorobenzene	112	11.048	11.048	0.000	95	542255	5.00	5.13	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	97	186736	5.00	5.05	
117 Ethylbenzene	91	11.140	11.140	0.000	98	946346	5.00	5.07	
119 m-Xylene & p-Xylene	106	11.256	11.256	0.000	99	764460	10.0	10.8	
120 o-Xylene	106	11.591	11.591	0.000	96	367579	5.00	5.25	
121 Styrene	104	11.609	11.603	0.006	95	564213	5.00	5.20	
122 Bromoform	173	11.768	11.762	0.006	97	92454	5.00	4.66	
123 Isopropylbenzene	105	11.896	11.896	0.000	96	965621	5.00	5.72	
$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	95	583131	10.0	9.86	
127 1,1,2,2-Tetrachloroethane	83	12.140	12.140	0.000	93	140107	5.00	4.40	
128 Bromobenzene	156	12.158	12.152	0.006	93	226301	5.00	4.88	
129 trans-1,4-Dichloro-2-butene	53	12.170	12.164	0.006	92	156556	25.0	18.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
130 1,2,3-Trichloropropane	110	12.188	12.188	0.000	81	38903	5.00	4.72	
131 N-Propylbenzene	91	12.225	12.225	0.000	99	1132614	5.00	5.11	
132 2-Chlorotoluene	126	12.304	12.304	0.000	97	225569	5.00	4.97	
133 1,3,5-Trimethylbenzene	105	12.365	12.365	0.000	95	805581	5.00	5.17	
134 4-Chlorotoluene	126	12.396	12.396	0.000	97	234328	5.00	5.10	
135 tert-Butylbenzene	134	12.609	12.609	0.000	92	174735	5.00	5.02	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	97	807189	5.00	5.18	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	1041554	5.00	5.41	
139 1,3-Dichlorobenzene	146	12.871	12.871	0.000	98	453397	5.00	5.18	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	906122	5.00	5.46	
* 141 1,4-Dichlorobenzene-d4	152	12.926	12.926	0.000	94	704010	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.944	12.944	0.000	95	447745	5.00	4.94	
143 1,2,3-Trimethylbenzene	120	12.956	12.957	-0.001	98	350363	5.00	4.96	
144 Benzyl chloride	126	13.024	13.024	0.000	98	60487	5.00	4.94	
145 p-Diethylbenzene	119	13.158	13.158	0.000	94	538246	5.00	5.56	
146 n-Butylbenzene	92	13.176	13.176	0.000	98	429415	5.00	5.66	
147 1,2-Dichlorobenzene	146	13.206	13.207	-0.001	98	399832	5.00	4.99	
149 1,2-Dibromo-3-Chloropropane	155	13.755	13.755	0.000	85	18571	5.00	4.37	
150 1,3,5-Trichlorobenzene	180	13.883	13.877	0.006	98	333532	5.00	5.57	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	93	262547	5.00	5.61	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	94	127741	5.00	7.23	
153 Naphthalene	128	14.487	14.481	0.006	97	401175	5.00	5.11	
154 1,2,3-Trichlorobenzene	180	14.627	14.627	0.000	95	205588	5.00	5.46	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MSV_LLcentISS_00013	Amount Added:	5.00	Units: uL	Run Reagent
MSV_LCS_VOC#1_00186	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00223	Amount Added:	5.38	Units: uL	

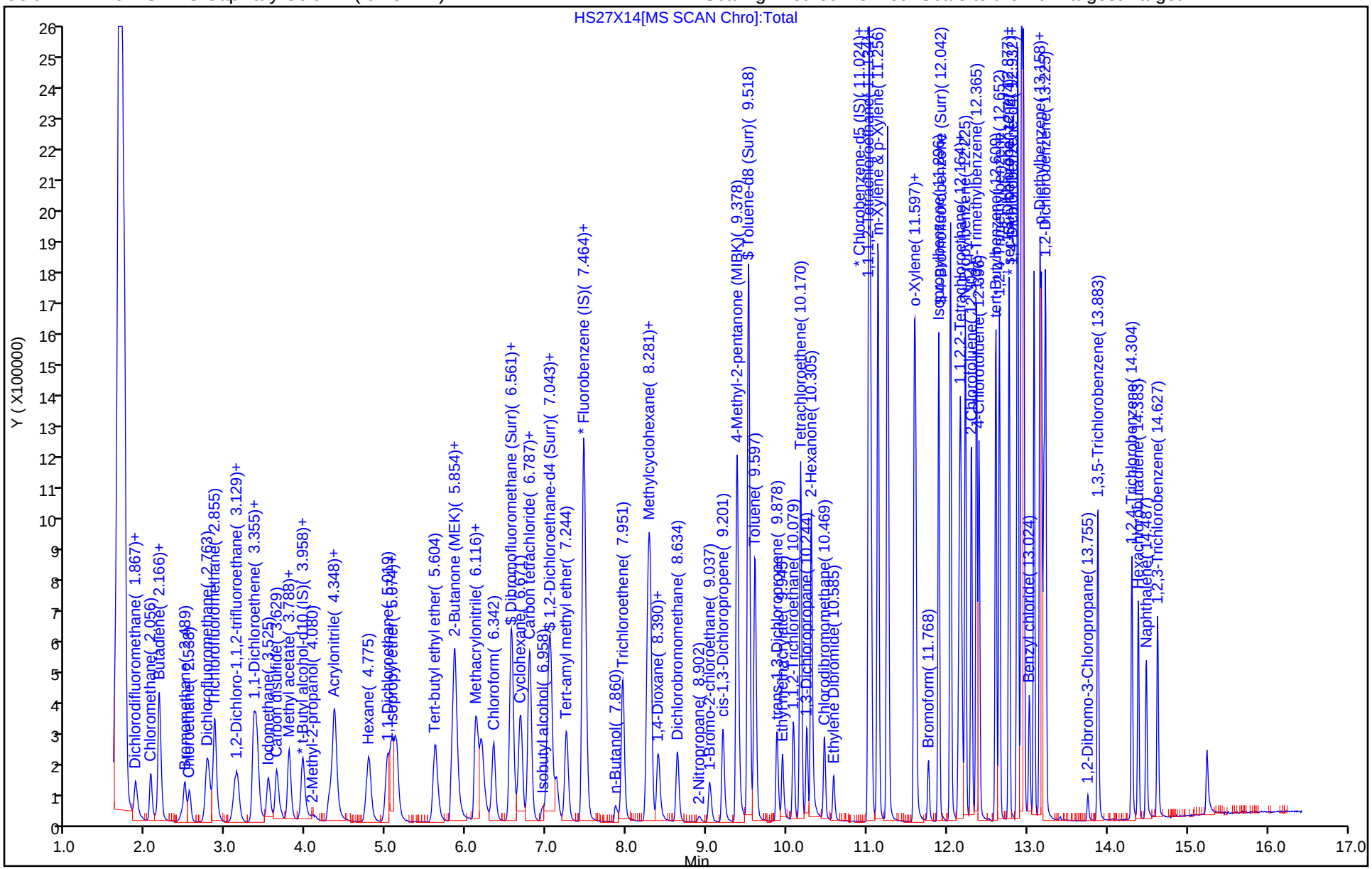
Report Date: 30-Sep-2024 08:52:59 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X14.D

Injection Date:	27-Sep-2024 23:07:30	Instrument ID:	19094	Operator ID:	gaw91131
Lims ID:	410-189680-A-6 MSD			Worklist Smp#:	15
Client ID:	HD-COD-SW-15-0/1-0 MSD				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\HS27X14.D
Lims ID: 410-189680-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0 MSD
Sample Type: MSD
Inject. Date: 27-Sep-2024 23:07:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126208-015
Operator ID: gaw91131 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20240927-126208.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Sep-2024 08:47:21 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: FQ4L Date: 30-Sep-2024 08:52:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	102.85
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.80	98.03
$ 83 Toluene-d8 (Surr)	10.0	9.99	99.85
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.86	98.55

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Instrument ID: 19094 Start Date: 07/17/2024 13:29

Analysis Batch Number: 529291 End Date: 07/17/2024 21:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-529291/1		07/17/2024 13:29	1	HL17T01.D	R-624SilMS 30m 0.25(mm)
IC 410-529291/3		07/17/2024 14:03	1	HL17X02.D	R-624SilMS 30m 0.25(mm)
IC 410-529291/4		07/17/2024 14:24	1	HL17X03.D	R-624SilMS 30m 0.25(mm)
IC 410-529291/5		07/17/2024 14:44	1	HL17X04.D	R-624SilMS 30m 0.25(mm)
IC 410-529291/6		07/17/2024 15:05	1	HL17X05.D	R-624SilMS 30m 0.25(mm)
IC 410-529291/7		07/17/2024 15:26	1	HL17X06.D	R-624SilMS 30m 0.25(mm)
IC 410-529291/8		07/17/2024 15:46	1	HL17X07.D	R-624SilMS 30m 0.25(mm)
CCV 410-529291/1008		07/17/2024 15:46	1		R-624SilMS 30m 0.25(mm)
IC 410-529291/9		07/17/2024 16:07	1	HL17X08.D	R-624SilMS 30m 0.25(mm)
ICV 410-529291/11		07/17/2024 16:49	1		R-624SilMS 30m 0.25(mm)
IC 410-529291/13		07/17/2024 17:30	1	HL17X12.D	R-624SilMS 30m 0.25(mm)
IC 410-529291/14		07/17/2024 17:51	1	HL17X13.D	R-624SilMS 30m 0.25(mm)
IC 410-529291/15		07/17/2024 18:12	1	HL17X14.D	R-624SilMS 30m 0.25(mm)
IC 410-529291/16		07/17/2024 18:32	1	HL17X15.D	R-624SilMS 30m 0.25(mm)
IC 410-529291/17		07/17/2024 18:53	1	HL17X16.D	R-624SilMS 30m 0.25(mm)
ICIS 410-529291/18		07/17/2024 19:14	1	HL17X17.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-529291/1018		07/17/2024 19:14	1		R-624SilMS 30m 0.25(mm)
IC 410-529291/19		07/17/2024 19:35	1	HL17X18.D	R-624SilMS 30m 0.25(mm)
ICV 410-529291/21		07/17/2024 20:16	1	HL17X20.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/17/2024 20:58	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/17/2024 21:18	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189680-1

SDG No.:

Instrument ID: 19094 Start Date: 09/27/2024 18:20

Analysis Batch Number: 556727 End Date: 09/28/2024 03:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-556727/1		09/27/2024 18:20	1	HS27T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-556727/3		09/27/2024 18:59	1	HS27X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-556727/4		09/27/2024 19:19	1	HS27X03.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		09/27/2024 19:40	1		R-624SilMS 30m 0.25(mm)
MB 410-556727/6		09/27/2024 20:01	1	HS27X05.D	R-624SilMS 30m 0.25(mm)
410-189680-14	HD-QC1-0/1-2	09/27/2024 20:21	1	HS27X06.D	R-624SilMS 30m 0.25(mm)
410-189680-1	HD-COD-SW-6-0/1-0	09/27/2024 20:42	1	HS27X07.D	R-624SilMS 30m 0.25(mm)
410-189680-2	HD-COD-SW-7-0/1-0	09/27/2024 21:03	1	HS27X08.D	R-624SilMS 30m 0.25(mm)
410-189680-3	HD-COD-SW-8-0/1-0	09/27/2024 21:24	1	HS27X09.D	R-624SilMS 30m 0.25(mm)
410-189680-4	HD-COD-SW-9-0/1-0	09/27/2024 21:45	1	HS27X10.D	R-624SilMS 30m 0.25(mm)
410-189680-5	HD-COD-SW-13-0/1-0	09/27/2024 22:05	1	HS27X11.D	R-624SilMS 30m 0.25(mm)
410-189680-6	HD-COD-SW-15-0/1-0	09/27/2024 22:26	1	HS27X12.D	R-624SilMS 30m 0.25(mm)
410-189680-6 MS	HD-COD-SW-15-0/1-0 MS MS	09/27/2024 22:47	1	HS27X13.D	R-624SilMS 30m 0.25(mm)
410-189680-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	09/27/2024 23:07	1	HS27X14.D	R-624SilMS 30m 0.25(mm)
410-189680-7	HD-COD-SW-16-0/1-0	09/27/2024 23:29	1	HS27X15.D	R-624SilMS 30m 0.25(mm)
410-189680-9	HD-COD-SW-26-0/1-0	09/27/2024 23:49	1	HS27X16.D	R-624SilMS 30m 0.25(mm)
410-189680-10	HD-COD-SW-27-0/1-0	09/28/2024 00:10	1	HS27X17.D	R-624SilMS 30m 0.25(mm)
410-189680-11	HD-COD-SW-28-0/1-0	09/28/2024 00:31	1	HS27X18.D	R-624SilMS 30m 0.25(mm)
410-189680-12	HD-COD-SW-29-0/1-0	09/28/2024 00:52	1	HS27X19.D	R-624SilMS 30m 0.25(mm)
410-189680-8	HD-COD-SW-17-0/1-0	09/28/2024 01:13	1	HS27X20.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		09/28/2024 01:34	10		R-624SilMS 30m 0.25(mm)
410-189680-13	HD-QC1-0/1-1	09/28/2024 01:54	1	HS27X22.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		09/28/2024 02:15	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/28/2024 02:36	50		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/28/2024 02:56	500		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/28/2024 03:17	50		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/28/2024 03:38	500		R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-189680-1

SDG No.:

Batch Number: 529291 | Batch Start Date: 07/17/24 13:29 | Batch Analyst: Kephart, Kayla

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00008	MSV_CCV_CYC 00009	MSV_CCV_V5ACE 00038
BFB 410-529291/1		8260D			1 uL	1 uL				
IC 410-529291/3		8260D			25 mL	25 mL	2759		1.6 uL	0.2 uL
IC 410-529291/4		8260D			25 mL	25 mL	2759		4 uL	0.5 uL
IC 410-529291/5		8260D			25 mL	25 mL	2759		8 uL	1 uL
IC 410-529291/6		8260D			25 mL	25 mL	2759		8 uL	1 uL
IC 410-529291/7		8260D			25 mL	25 mL	2759		8 uL	1 uL
IC 410-529291/8		8260D			25 mL	25 mL	2759		8 uL	1 uL
IC 410-529291/9		8260D			25 mL	25 mL	2759		20 uL	2.5 uL
IC 410-529291/13		8260D			25 mL	25 mL	2759			
IC 410-529291/14		8260D			25 mL	25 mL	2759			
IC 410-529291/15		8260D			25 mL	25 mL	2759			
IC 410-529291/16		8260D			25 mL	25 mL	2759			
IC 410-529291/17		8260D			25 mL	25 mL	2759			
ICIS 410-529291/18		8260D			25 mL	25 mL	2759			
IC 410-529291/19		8260D			25 mL	25 mL	2759			
ICV 410-529291/21		8260D			25 mL	25 mL	2759	12.5 uL		

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_DME 00056	MSV_LCS_ACROL 00179	MSV_LCS_EE 00009	MSV_LCS_Penta 00044	MSV_LCS_VOC#1 00176	MSV_LL_#1_826 00137
BFB 410-529291/1		8260D								
IC 410-529291/3		8260D			0.2 uL					
IC 410-529291/4		8260D			0.5 uL					
IC 410-529291/5		8260D			1 uL					
IC 410-529291/6		8260D			1 uL					
IC 410-529291/7		8260D			1 uL					
IC 410-529291/8		8260D			1 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-189680-1

SDG No.:

Batch Number: 529291 | Batch Start Date: 07/17/24 13:29 | Batch Analyst: Kephart, Kayla

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_DME 00056	MSV_LCS_ACROL 00179	MSV_LCS_EE 00009	MSV_LCS_Penta 00044	MSV_LCS_VOC#1 00176	MSV_LL_#1_826 00137
IC 410-529291/9		8260D			2.5 uL					
IC 410-529291/13		8260D								2 uL
IC 410-529291/14		8260D								2 uL
IC 410-529291/15		8260D								2 uL
IC 410-529291/16		8260D								2 uL
IC 410-529291/17		8260D								5 uL
ICIS 410-529291/18		8260D								10 uL
IC 410-529291/19		8260D								25 uL
ICV 410-529291/21		8260D				12.5 uL	12.5 uL	12.5 uL	12.5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LL_#2_826 00144	MSV_LL_GAS826 00220	MSV_LLcentISO 00008	MSV_LLcentISS 00012	MSV_QC_Gas826 00207	MSV_V_BFB 00017
BFB 410-529291/1		8260D								1 uL
IC 410-529291/3		8260D					5 uL			
IC 410-529291/4		8260D					5 uL			
IC 410-529291/5		8260D					5 uL			
IC 410-529291/6		8260D					5 uL			
IC 410-529291/7		8260D					5 uL			
IC 410-529291/8		8260D					5 uL			
IC 410-529291/9		8260D					5 uL			
IC 410-529291/13		8260D			2 uL	2 uL		5 uL		
IC 410-529291/14		8260D			2 uL	2 uL		5 uL		
IC 410-529291/15		8260D			2 uL	2 uL		5 uL		
IC 410-529291/16		8260D			2 uL	2 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.: 410-189680-1

SDG No.:

Batch Number: 529291 | Batch Start Date: 07/17/24 13:29 | Batch Analyst: Kephart, Kayla

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LL_#2_826 00144	MSV_LL_GAS826 00220	MSV_LLcentISO 00008	MSV_LLcentISS 00012	MSV_QC_Gas826 00207	MSV_V_BFB 00017
IC 410-529291/17		8260D			5 uL	5 uL		5 uL		
ICIS 410-529291/18		8260D			10 uL	10 uL		5 uL		
IC 410-529291/19		8260D			25 uL	25 uL		5 uL		
ICV 410-529291/21		8260D						5 uL	12.5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_SMRV4 00072					
BFB 410-529291/1		8260D								
IC 410-529291/3		8260D			1 uL					
IC 410-529291/4		8260D			2.5 uL					
IC 410-529291/5		8260D			5 uL					
IC 410-529291/6		8260D			5 uL					
IC 410-529291/7		8260D			5 uL					
IC 410-529291/8		8260D			5 uL					
IC 410-529291/9		8260D			12.5 uL					
IC 410-529291/13		8260D								
IC 410-529291/14		8260D								
IC 410-529291/15		8260D								
IC 410-529291/16		8260D								
IC 410-529291/17		8260D								
ICIS 410-529291/18		8260D								
IC 410-529291/19		8260D								
ICV 410-529291/21		8260D								

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-189680-1

SDG No.:

Batch Number: 529291 | Batch Start Date: 07/17/24 13:29 | Batch Analyst: Kephart, Kayla

Batch Method: 8260D | Batch End Date:

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-189680-1

SDG No.:

Batch Number: 556727 | Batch Start Date: 09/27/24 18:20 | Batch Analyst: Walmer, Gavin

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-556727/1		8260D			1 uL	1 uL				
CCVIS 410-556727/3		8260D			25 mL	25 mL				2768
LCS 410-556727/4		8260D			25 mL	25 mL				2768
MB 410-556727/6		8260D			25 mL	25 mL				2768
410-189680-A-14	HD-QC1-0/1-2	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-189680-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-189680-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-189680-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-189680-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-189680-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-189680-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-189680-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-189680-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-189680-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-189680-A-9	HD-COD-SW-26-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-189680-A-10	HD-COD-SW-27-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-189680-A-11	HD-COD-SW-28-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-189680-A-12	HD-COD-SW-29-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-189680-A-8	HD-COD-SW-17-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-189680-A-13	HD-QC1-0/1-1	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_VOC#1 00186	MSV_LL_#1_826 00147	MSV_LL_#2_826 00155	MSV_LL_GAS826 00235	MSV_LLcentISS 00013	MSV_QC_Gas826 00223

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.: 410-189680-1

SDG No.:

Batch Number: 556727 | Batch Start Date: 09/27/24 18:20 | Batch Analyst: Walmer, Gavin

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_VOC#1 00186	MSV_LL_#1_826 00147	MSV_LL_#2_826 00155	MSV_LL_GAS826 00235	MSV_LLcentISS 00013	MSV_QC_Gas826 00223
BFB 410-556727/1		8260D								
CCVIS 410-556727/3		8260D				20 uL	20 uL	20 uL	5 uL	
LCS 410-556727/4		8260D			12.5 uL				5 uL	12.5 uL
MB 410-556727/6		8260D							5 uL	
410-189680-A-14	HD-QC1-0/1-2	8260D	Water	T					5 uL	
410-189680-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T					5 uL	
410-189680-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T					5 uL	
410-189680-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T					5 uL	
410-189680-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T					5 uL	
410-189680-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T					5 uL	
410-189680-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T					5 uL	
410-189680-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T	5.38 uL				5 uL	5.38 uL
410-189680-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T	5.38 uL				5 uL	5.38 uL
410-189680-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T					5 uL	
410-189680-A-9	HD-COD-SW-26-0/1-0	8260D	Water	T					5 uL	
410-189680-A-10	HD-COD-SW-27-0/1-0	8260D	Water	T					5 uL	
410-189680-A-11	HD-COD-SW-28-0/1-0	8260D	Water	T					5 uL	
410-189680-A-12	HD-COD-SW-29-0/1-0	8260D	Water	T					5 uL	
410-189680-A-8	HD-COD-SW-17-0/1-0	8260D	Water	T					5 uL	
410-189680-A-13	HD-QC1-0/1-1	8260D	Water	T					5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_BFB 00017					

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.: 410-189680-1

SDG No.:

Batch Number: 556727 Batch Start Date: 09/27/24 18:20 Batch Analyst: Walmer, Gavin

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_BFB 00017					
BFB 410-556727/1		8260D			1 uL					
CCVIS 410-556727/3		8260D								
LCS 410-556727/4		8260D								
MB 410-556727/6		8260D								
410-189680-A-14	HD-QC1-0/1-2	8260D	Water	T						
410-189680-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T						
410-189680-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T						
410-189680-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T						
410-189680-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T						
410-189680-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T						
410-189680-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T						
410-189680-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T						
410-189680-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T						
410-189680-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T						
410-189680-A-9	HD-COD-SW-26-0/1-0	8260D	Water	T						
410-189680-A-10	HD-COD-SW-27-0/1-0	8260D	Water	T						
410-189680-A-11	HD-COD-SW-28-0/1-0	8260D	Water	T						
410-189680-A-12	HD-COD-SW-29-0/1-0	8260D	Water	T						
410-189680-A-8	HD-COD-SW-17-0/1-0	8260D	Water	T						
410-189680-A-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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-189680-1

SDG No.:

Batch Number: 556727 | Batch Start Date: 09/27/24 18:20 | Batch Analyst: Walmer, Gavin

Batch 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

Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

410-189680 Chain of Custody

Group # _____ Sample # _____

Client:	Groundwater Sciences Corporation		
Project Name/#:	fYNOP Monthly Surface Water	Site ID #:	fYNOP, York PA
Project Manager:	Chris O'Neil	P.O. #:	10012.52
Sampler:	Casey Littlefield / Lucas Grimm	PWSID #:	N/A
Phone #:	(717) 901-8176 / (717) 756-1246	Quote #:	
State where samples were collected: York, PA	For Compliance: Yes ☐ No ☑		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil ☐ Sediment ☐ Tissue	Water ☐ Potable ☐ Ground ☑ Surface ☐ NPDES	Other:	Total # of Containers	Analyses Requested: Preservation Codes H: Aqueous VOCs via 8260D (low level - 25 ml purge)
HD-COD-SW-6-0/1-0	9/23/2024	1150	X			X		3	X
HD-COD-SW-7-0/1-0		1235	X			X		3	X
HD-COD-SW-8-0/1-0		1040	X			X		3	X
HD-COD-SW-9-0/1-0		1415	X			X		3	X
HD-COD-SW-13-0/1-0		1058	X			X		3	X
HD-COD-SW-15-0/1-0		1300	X			X		3	X
HD-COD-SW-15-0/1-0 MS		1300	X			X		3	X
HD-COD-SW-15-0/1-0 MSD		1300	X			X		3	X
HD-COD-SW-16-0/1-0		1120	X			X		3	X
HD-COD-SW-17-0/1-0		1130	X			X		3	X

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
O = Other

Remarks: All samples preserved on ice

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed: STANDARD

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: ON-FILE

Phone:

Data Package Options (please check if required)

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

EDD Required? Yes ☑ No ☐ If yes, format: CLP Like Deliverables. Project Specific Analyte List

Relinquished by:	Date	Time	Received by:	Date	Time
	9/25/2024	0700	Christopher D. O'Neil	9/25/2024	0700
Christopher D. O'Neil	09/25/24	11:31am		9/25/24	11:31
	9/25/24	14:38			
				9/25/24	1438

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other Courier

R 0.3 C 0.3 Temperature upon receipt _____ °C

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # _____ Group # _____ Sample # _____

Client:	Groundwater Sciences Corporation		
Project Name/#:	fYNOP Monthly Surface Water	Site ID #:	fYNOP, York PA
Project Manager:	Chris O'Neil	P.O. #:	10012.52
Sampler:	Casey Littlefield / Lucas Grimm	PWSID #:	N/A
Phone #:	(717) 901-8176 / (717) 756-1246	Quote #:	
State where samples were collected: York, PA	For Compliance: Yes ☐ No ☑		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil ☐ Sediment ☐ Tissue	Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☑	Other: Trip Blank	Total # of Containers	Analyses Requested: Aqueous VOCs via 8260D (low level - 25 ml purge)	Preservation Codes: H	Remarks
HD-COD-SW-26-0/1-0	9/23/2024	1215	X			X		3	X		
HD-COD-SW-27-0/1-0		1247	X			X		3	X		
HD-COD-SW-28-0/1-0		1430	X			X		3	X		
HD-COD-SW-29-0/1-0		1025	X			X		3	X		
HD-QC1-0/1-1		1200	X			X		3	X		
HD-QC1-0/1-2	↓	–	X				X	2	X		Trip Blank

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed: STANDARD

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address: ON-FILE

Phone:

Data Package Options (please check if required)

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

EDD Required? Yes ☑ No ☐ If yes, format: CLP Like Deliverables, Project Specific Analyte List

Relinquished by:	Date	Time	Received by:	Date	Time
	9/25/2024	0700	Christopher D. O'Neil	9/25/2024	0700
Christopher D. O'Neil	09/25/24	11:31am		9/25/24	11:31
	9/25/24	14:38			
				9/25/24	14:38

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other Courier

R 0.3 C 0.3

Temperature upon receipt _____ °C

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-189680-1

Login Number: 189680

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Kanagy, Nicholas

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	

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-189680-1

Login Number: 189680

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 2

Creator: Jeremiah, Cory T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		