



ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

fYNOP Monthly Surface Water

JOB NUMBER

410-161790-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

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

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

Authorization



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Definitions/Glossary

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

Job ID: 410-161790-1

Qualifiers

GC/MS VOA

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

Glossary

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

Job Narrative
410-161790-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 2/24/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C.

GC/MS VOA

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-478015 recovered above the upper control limit for 1,2-Dichloropropane and 2-Butanone (MEK). Non-detections of the affected analytes are reported. Any detections are considered estimated.

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

Detection Summary

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.7	J	5.0	1.0	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-161790-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5	J	5.0	1.0	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-161790-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	5.0	1.0	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.44	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.090	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-161790-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	5.0	1.0	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-161790-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J	5.0	1.0	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.68		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.087	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-161790-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.31	J	0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.12	J	0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.20	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.21	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.6		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	6.5	FH	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	1.6		0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-161790-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5	J	5.0	1.0	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.65		0.50	0.20	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-161790-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	8.8		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.8		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.71		0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.18	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3.2		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	4.5		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	130		5.0	2.0	ug/L	10		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloroform	0.11	J	0.50	0.090	ug/L	1			8260D	Total/NA
Tetrachloroethene	0.55		0.50	0.20	ug/L	1			8260D	Total/NA

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

Lab Sample ID: 410-161790-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	2.2	J	5.0	1.0	ug/L	1			8260D	Total/NA

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

Lab Sample ID: 410-161790-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.081	J	0.50	0.080	ug/L	1			8260D	Total/NA
Tetrachloroethene	0.23	J	0.50	0.20	ug/L	1			8260D	Total/NA
Trichloroethene	0.083	J	0.50	0.080	ug/L	1			8260D	Total/NA

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

Lab Sample ID: 410-161790-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.4	J	5.0	1.0	ug/L	1			8260D	Total/NA
Chloromethane	0.12	J	0.50	0.10	ug/L	1			8260D	Total/NA
Tetrachloroethene	0.29	J	0.50	0.20	ug/L	1			8260D	Total/NA

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

Lab Sample ID: 410-161790-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1,1-Trichloroethane	8.7		0.50	0.080	ug/L	1			8260D	Total/NA
1,1-Dichloroethane	1.7		0.50	0.10	ug/L	1			8260D	Total/NA
1,1-Dichloroethene	0.70		0.50	0.10	ug/L	1			8260D	Total/NA
Chloroform	0.18	J	0.50	0.090	ug/L	1			8260D	Total/NA
cis-1,2-Dichloroethene	3.1		0.50	0.080	ug/L	1			8260D	Total/NA
Trichloroethene	4.3		0.50	0.080	ug/L	1			8260D	Total/NA
Tetrachloroethene - DL	140		5.0	2.0	ug/L	10			8260D	Total/NA

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

Lab Sample ID: 410-161790-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloroform	0.23	J	0.50	0.090	ug/L	1			8260D	Total/NA
Methylene Chloride	0.21	J	0.50	0.20	ug/L	1			8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-1

Date Collected: 02/23/24 11:03

Matrix: Water

Date Received: 02/24/24 09:30

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			02/29/24 15:27	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 15:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/29/24 15:27	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 15:27	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/29/24 15:27	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 15:27	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/29/24 15:27	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/29/24 15:27	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/29/24 15:27	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/29/24 15:27	1
2-Hexanone	ND		5.0	2.0	ug/L			02/29/24 15:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/29/24 15:27	1
Acetone	1.7	J	5.0	1.0	ug/L			02/29/24 15:27	1
Benzene	ND		0.50	0.10	ug/L			02/29/24 15:27	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/29/24 15:27	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/29/24 15:27	1
Bromoform	ND		1.0	0.30	ug/L			02/29/24 15:27	1
Bromomethane	ND		0.50	0.10	ug/L			02/29/24 15:27	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/29/24 15:27	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/29/24 15:27	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/29/24 15:27	1
Chloroethane	ND		0.50	0.10	ug/L			02/29/24 15:27	1
Chloroform	ND		0.50	0.090	ug/L			02/29/24 15:27	1
Chloromethane	ND		0.50	0.10	ug/L			02/29/24 15:27	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/29/24 15:27	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/29/24 15:27	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/29/24 15:27	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/29/24 15:27	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/29/24 15:27	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/29/24 15:27	1
Styrene	ND		0.50	0.070	ug/L			02/29/24 15:27	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/29/24 15:27	1
Toluene	ND		0.50	0.080	ug/L			02/29/24 15:27	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 15:27	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/29/24 15:27	1
Trichloroethene	ND		0.50	0.080	ug/L			02/29/24 15:27	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/29/24 15:27	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/29/24 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		80 - 120		02/29/24 15:27	1
4-Bromofluorobenzene (Surr)	90		80 - 120		02/29/24 15:27	1
Dibromofluoromethane (Surr)	107		80 - 120		02/29/24 15:27	1
Toluene-d8 (Surr)	102		80 - 120		02/29/24 15:27	1

Client Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-2

Date Collected: 02/23/24 11:40

Matrix: Water

Date Received: 02/24/24 09:30

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			02/29/24 15:49	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 15:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/29/24 15:49	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 15:49	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/29/24 15:49	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 15:49	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/29/24 15:49	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/29/24 15:49	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/29/24 15:49	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/29/24 15:49	1
2-Hexanone	ND		5.0	2.0	ug/L			02/29/24 15:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/29/24 15:49	1
Acetone	1.5	J	5.0	1.0	ug/L			02/29/24 15:49	1
Benzene	ND		0.50	0.10	ug/L			02/29/24 15:49	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/29/24 15:49	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/29/24 15:49	1
Bromoform	ND		1.0	0.30	ug/L			02/29/24 15:49	1
Bromomethane	ND		0.50	0.10	ug/L			02/29/24 15:49	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/29/24 15:49	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/29/24 15:49	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/29/24 15:49	1
Chloroethane	ND		0.50	0.10	ug/L			02/29/24 15:49	1
Chloroform	ND		0.50	0.090	ug/L			02/29/24 15:49	1
Chloromethane	ND		0.50	0.10	ug/L			02/29/24 15:49	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/29/24 15:49	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/29/24 15:49	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/29/24 15:49	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/29/24 15:49	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/29/24 15:49	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/29/24 15:49	1
Styrene	ND		0.50	0.070	ug/L			02/29/24 15:49	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/29/24 15:49	1
Toluene	ND		0.50	0.080	ug/L			02/29/24 15:49	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 15:49	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/29/24 15:49	1
Trichloroethene	ND		0.50	0.080	ug/L			02/29/24 15:49	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/29/24 15:49	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/29/24 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		80 - 120		02/29/24 15:49	1
4-Bromofluorobenzene (Surr)	91		80 - 120		02/29/24 15:49	1
Dibromofluoromethane (Surr)	107		80 - 120		02/29/24 15:49	1
Toluene-d8 (Surr)	102		80 - 120		02/29/24 15:49	1

Client Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-3

Date Collected: 02/23/24 09:59

Matrix: Water

Date Received: 02/24/24 09:30

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			02/29/24 16:11	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 16:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/29/24 16:11	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 16:11	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/29/24 16:11	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 16:11	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/29/24 16:11	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/29/24 16:11	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/29/24 16:11	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/29/24 16:11	1
2-Hexanone	ND		5.0	2.0	ug/L			02/29/24 16:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/29/24 16:11	1
Acetone	1.4	J	5.0	1.0	ug/L			02/29/24 16:11	1
Benzene	ND		0.50	0.10	ug/L			02/29/24 16:11	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/29/24 16:11	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/29/24 16:11	1
Bromoform	ND		1.0	0.30	ug/L			02/29/24 16:11	1
Bromomethane	ND		0.50	0.10	ug/L			02/29/24 16:11	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/29/24 16:11	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/29/24 16:11	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/29/24 16:11	1
Chloroethane	ND		0.50	0.10	ug/L			02/29/24 16:11	1
Chloroform	ND		0.50	0.090	ug/L			02/29/24 16:11	1
Chloromethane	ND		0.50	0.10	ug/L			02/29/24 16:11	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/29/24 16:11	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/29/24 16:11	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/29/24 16:11	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/29/24 16:11	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/29/24 16:11	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/29/24 16:11	1
Styrene	ND		0.50	0.070	ug/L			02/29/24 16:11	1
Tetrachloroethene	0.44	J	0.50	0.20	ug/L			02/29/24 16:11	1
Toluene	ND		0.50	0.080	ug/L			02/29/24 16:11	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 16:11	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/29/24 16:11	1
Trichloroethene	0.090	J	0.50	0.080	ug/L			02/29/24 16:11	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/29/24 16:11	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/29/24 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		02/29/24 16:11	1
4-Bromofluorobenzene (Surr)	91		80 - 120		02/29/24 16:11	1
Dibromofluoromethane (Surr)	105		80 - 120		02/29/24 16:11	1
Toluene-d8 (Surr)	102		80 - 120		02/29/24 16:11	1

Client Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-4

Date Collected: 02/23/24 12:55

Matrix: Water

Date Received: 02/24/24 09:30

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			02/29/24 16:33	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 16:33	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/29/24 16:33	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 16:33	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/29/24 16:33	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 16:33	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/29/24 16:33	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/29/24 16:33	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/29/24 16:33	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/29/24 16:33	1
2-Hexanone	ND		5.0	2.0	ug/L			02/29/24 16:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/29/24 16:33	1
Acetone	1.4	J	5.0	1.0	ug/L			02/29/24 16:33	1
Benzene	ND		0.50	0.10	ug/L			02/29/24 16:33	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/29/24 16:33	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/29/24 16:33	1
Bromoform	ND		1.0	0.30	ug/L			02/29/24 16:33	1
Bromomethane	ND		0.50	0.10	ug/L			02/29/24 16:33	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/29/24 16:33	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/29/24 16:33	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/29/24 16:33	1
Chloroethane	ND		0.50	0.10	ug/L			02/29/24 16:33	1
Chloroform	ND		0.50	0.090	ug/L			02/29/24 16:33	1
Chloromethane	ND		0.50	0.10	ug/L			02/29/24 16:33	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/29/24 16:33	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/29/24 16:33	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/29/24 16:33	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/29/24 16:33	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/29/24 16:33	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/29/24 16:33	1
Styrene	ND		0.50	0.070	ug/L			02/29/24 16:33	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/29/24 16:33	1
Toluene	ND		0.50	0.080	ug/L			02/29/24 16:33	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 16:33	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/29/24 16:33	1
Trichloroethene	ND		0.50	0.080	ug/L			02/29/24 16:33	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/29/24 16:33	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/29/24 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		80 - 120		02/29/24 16:33	1
4-Bromofluorobenzene (Surr)	89		80 - 120		02/29/24 16:33	1
Dibromofluoromethane (Surr)	106		80 - 120		02/29/24 16:33	1
Toluene-d8 (Surr)	101		80 - 120		02/29/24 16:33	1

Client Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-5

Date Collected: 02/23/24 10:15

Matrix: Water

Date Received: 02/24/24 09:30

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			02/29/24 16:55	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 16:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/29/24 16:55	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 16:55	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/29/24 16:55	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 16:55	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/29/24 16:55	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/29/24 16:55	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/29/24 16:55	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/29/24 16:55	1
2-Hexanone	ND		5.0	2.0	ug/L			02/29/24 16:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/29/24 16:55	1
Acetone	1.6	J	5.0	1.0	ug/L			02/29/24 16:55	1
Benzene	ND		0.50	0.10	ug/L			02/29/24 16:55	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/29/24 16:55	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/29/24 16:55	1
Bromoform	ND		1.0	0.30	ug/L			02/29/24 16:55	1
Bromomethane	ND		0.50	0.10	ug/L			02/29/24 16:55	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/29/24 16:55	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/29/24 16:55	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/29/24 16:55	1
Chloroethane	ND		0.50	0.10	ug/L			02/29/24 16:55	1
Chloroform	ND		0.50	0.090	ug/L			02/29/24 16:55	1
Chloromethane	ND		0.50	0.10	ug/L			02/29/24 16:55	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/29/24 16:55	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/29/24 16:55	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/29/24 16:55	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/29/24 16:55	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/29/24 16:55	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/29/24 16:55	1
Styrene	ND		0.50	0.070	ug/L			02/29/24 16:55	1
Tetrachloroethene	0.68		0.50	0.20	ug/L			02/29/24 16:55	1
Toluene	ND		0.50	0.080	ug/L			02/29/24 16:55	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 16:55	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/29/24 16:55	1
Trichloroethene	0.087	J	0.50	0.080	ug/L			02/29/24 16:55	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/29/24 16:55	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/29/24 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		02/29/24 16:55	1
4-Bromofluorobenzene (Surr)	90		80 - 120		02/29/24 16:55	1
Dibromofluoromethane (Surr)	107		80 - 120		02/29/24 16:55	1
Toluene-d8 (Surr)	102		80 - 120		02/29/24 16:55	1

Client Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-6

Date Collected: 02/23/24 11:59

Matrix: Water

Date Received: 02/24/24 09:30

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			02/29/24 17:17	1
1,1,1-Trichloroethane	0.31	J	0.50	0.080	ug/L			02/29/24 17:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/29/24 17:17	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 17:17	1
1,1-Dichloroethane	0.12	J	0.50	0.10	ug/L			02/29/24 17:17	1
1,1-Dichloroethene	0.20	J	0.50	0.10	ug/L			02/29/24 17:17	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/29/24 17:17	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/29/24 17:17	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/29/24 17:17	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/29/24 17:17	1
2-Hexanone	ND		5.0	2.0	ug/L			02/29/24 17:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/29/24 17:17	1
Acetone	ND		5.0	1.0	ug/L			02/29/24 17:17	1
Benzene	ND		0.50	0.10	ug/L			02/29/24 17:17	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/29/24 17:17	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/29/24 17:17	1
Bromoform	ND		1.0	0.30	ug/L			02/29/24 17:17	1
Bromomethane	ND		0.50	0.10	ug/L			02/29/24 17:17	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/29/24 17:17	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/29/24 17:17	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/29/24 17:17	1
Chloroethane	ND		0.50	0.10	ug/L			02/29/24 17:17	1
Chloroform	0.21	J	0.50	0.090	ug/L			02/29/24 17:17	1
Chloromethane	ND		0.50	0.10	ug/L			02/29/24 17:17	1
cis-1,2-Dichloroethene	1.6		0.50	0.080	ug/L			02/29/24 17:17	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/29/24 17:17	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/29/24 17:17	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/29/24 17:17	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/29/24 17:17	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/29/24 17:17	1
Styrene	ND		0.50	0.070	ug/L			02/29/24 17:17	1
Tetrachloroethene	6.5	FH	0.50	0.20	ug/L			02/29/24 17:17	1
Toluene	ND		0.50	0.080	ug/L			02/29/24 17:17	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 17:17	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/29/24 17:17	1
Trichloroethene	1.6		0.50	0.080	ug/L			02/29/24 17:17	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/29/24 17:17	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/29/24 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		80 - 120		02/29/24 17:17	1
4-Bromofluorobenzene (Surr)	89		80 - 120		02/29/24 17:17	1
Dibromofluoromethane (Surr)	107		80 - 120		02/29/24 17:17	1
Toluene-d8 (Surr)	101		80 - 120		02/29/24 17:17	1

Client Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-7

Date Collected: 02/23/24 10:37

Matrix: Water

Date Received: 02/24/24 09:30

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			02/29/24 18:24	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 18:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/29/24 18:24	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 18:24	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/29/24 18:24	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 18:24	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/29/24 18:24	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/29/24 18:24	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/29/24 18:24	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/29/24 18:24	1
2-Hexanone	ND		5.0	2.0	ug/L			02/29/24 18:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/29/24 18:24	1
Acetone	1.5	J	5.0	1.0	ug/L			02/29/24 18:24	1
Benzene	ND		0.50	0.10	ug/L			02/29/24 18:24	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/29/24 18:24	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/29/24 18:24	1
Bromoform	ND		1.0	0.30	ug/L			02/29/24 18:24	1
Bromomethane	ND		0.50	0.10	ug/L			02/29/24 18:24	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/29/24 18:24	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/29/24 18:24	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/29/24 18:24	1
Chloroethane	ND		0.50	0.10	ug/L			02/29/24 18:24	1
Chloroform	ND		0.50	0.090	ug/L			02/29/24 18:24	1
Chloromethane	ND		0.50	0.10	ug/L			02/29/24 18:24	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/29/24 18:24	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/29/24 18:24	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/29/24 18:24	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/29/24 18:24	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/29/24 18:24	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/29/24 18:24	1
Styrene	ND		0.50	0.070	ug/L			02/29/24 18:24	1
Tetrachloroethene	0.65		0.50	0.20	ug/L			02/29/24 18:24	1
Toluene	ND		0.50	0.080	ug/L			02/29/24 18:24	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 18:24	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/29/24 18:24	1
Trichloroethene	ND		0.50	0.080	ug/L			02/29/24 18:24	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/29/24 18:24	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/29/24 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		80 - 120		02/29/24 18:24	1
4-Bromofluorobenzene (Surr)	89		80 - 120		02/29/24 18:24	1
Dibromofluoromethane (Surr)	108		80 - 120		02/29/24 18:24	1
Toluene-d8 (Surr)	102		80 - 120		02/29/24 18:24	1

Client Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-8

Date Collected: 02/23/24 10:45

Matrix: Water

Date Received: 02/24/24 09:30

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			02/29/24 01:52	1
1,1,1-Trichloroethane	8.8		0.50	0.080	ug/L			02/29/24 01:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/29/24 01:52	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 01:52	1
1,1-Dichloroethane	1.8		0.50	0.10	ug/L			02/29/24 01:52	1
1,1-Dichloroethene	0.71		0.50	0.10	ug/L			02/29/24 01:52	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/29/24 01:52	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/29/24 01:52	1
1,2-Dichloropropane	ND	^c *+ cn	0.50	0.10	ug/L			02/29/24 01:52	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			02/29/24 01:52	1
2-Hexanone	ND		5.0	2.0	ug/L			02/29/24 01:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/29/24 01:52	1
Acetone	ND		5.0	1.0	ug/L			02/29/24 01:52	1
Benzene	ND		0.50	0.10	ug/L			02/29/24 01:52	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/29/24 01:52	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/29/24 01:52	1
Bromoform	ND		1.0	0.30	ug/L			02/29/24 01:52	1
Bromomethane	ND		0.50	0.10	ug/L			02/29/24 01:52	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/29/24 01:52	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/29/24 01:52	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/29/24 01:52	1
Chloroethane	ND		0.50	0.10	ug/L			02/29/24 01:52	1
Chloroform	0.18 J		0.50	0.090	ug/L			02/29/24 01:52	1
Chloromethane	ND		0.50	0.10	ug/L			02/29/24 01:52	1
cis-1,2-Dichloroethene	3.2		0.50	0.080	ug/L			02/29/24 01:52	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/29/24 01:52	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/29/24 01:52	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/29/24 01:52	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/29/24 01:52	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/29/24 01:52	1
Styrene	ND		0.50	0.070	ug/L			02/29/24 01:52	1
Toluene	ND		0.50	0.080	ug/L			02/29/24 01:52	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 01:52	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/29/24 01:52	1
Trichloroethene	4.5		0.50	0.080	ug/L			02/29/24 01:52	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/29/24 01:52	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/29/24 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		80 - 120		02/29/24 01:52	1
4-Bromofluorobenzene (Surr)	91		80 - 120		02/29/24 01:52	1
Dibromofluoromethane (Surr)	95		80 - 120		02/29/24 01:52	1
Toluene-d8 (Surr)	96		80 - 120		02/29/24 01:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	130		5.0	2.0	ug/L			02/29/24 02:12	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		80 - 120		02/29/24 02:12	10

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-8

Date Collected: 02/23/24 10:45

Matrix: Water

Date Received: 02/24/24 09:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		02/29/24 02:12	10
Dibromofluoromethane (Surr)	95		80 - 120		02/29/24 02:12	10
Toluene-d8 (Surr)	97		80 - 120		02/29/24 02:12	10

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

Lab Sample ID: 410-161790-9

Date Collected: 02/23/24 11:22

Matrix: Water

Date Received: 02/24/24 09:30

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			02/29/24 00:31	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 00:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/29/24 00:31	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 00:31	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/29/24 00:31	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 00:31	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/29/24 00:31	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/29/24 00:31	1
1,2-Dichloropropane	ND	^c *+ cn	0.50	0.10	ug/L			02/29/24 00:31	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			02/29/24 00:31	1
2-Hexanone	ND		5.0	2.0	ug/L			02/29/24 00:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/29/24 00:31	1
Acetone	ND		5.0	1.0	ug/L			02/29/24 00:31	1
Benzene	ND		0.50	0.10	ug/L			02/29/24 00:31	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/29/24 00:31	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/29/24 00:31	1
Bromoform	ND		1.0	0.30	ug/L			02/29/24 00:31	1
Bromomethane	ND		0.50	0.10	ug/L			02/29/24 00:31	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/29/24 00:31	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/29/24 00:31	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/29/24 00:31	1
Chloroethane	ND		0.50	0.10	ug/L			02/29/24 00:31	1
Chloroform	0.11	J	0.50	0.090	ug/L			02/29/24 00:31	1
Chloromethane	ND		0.50	0.10	ug/L			02/29/24 00:31	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/29/24 00:31	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/29/24 00:31	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/29/24 00:31	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/29/24 00:31	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/29/24 00:31	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/29/24 00:31	1
Styrene	ND		0.50	0.070	ug/L			02/29/24 00:31	1
Tetrachloroethene	0.55		0.50	0.20	ug/L			02/29/24 00:31	1
Toluene	ND		0.50	0.080	ug/L			02/29/24 00:31	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 00:31	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/29/24 00:31	1
Trichloroethene	ND		0.50	0.080	ug/L			02/29/24 00:31	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/29/24 00:31	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/29/24 00:31	1

Client Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-9

Date Collected: 02/23/24 11:22

Matrix: Water

Date Received: 02/24/24 09:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		02/29/24 00:31	1
4-Bromofluorobenzene (Surr)	92		80 - 120		02/29/24 00:31	1
Dibromofluoromethane (Surr)	95		80 - 120		02/29/24 00:31	1
Toluene-d8 (Surr)	99		80 - 120		02/29/24 00:31	1

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

Lab Sample ID: 410-161790-10

Date Collected: 02/23/24 11:50

Matrix: Water

Date Received: 02/24/24 09:30

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			02/29/24 00:51	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 00:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/29/24 00:51	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 00:51	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/29/24 00:51	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 00:51	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/29/24 00:51	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/29/24 00:51	1
1,2-Dichloropropane	ND	^c *+ cn	0.50	0.10	ug/L			02/29/24 00:51	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			02/29/24 00:51	1
2-Hexanone	ND		5.0	2.0	ug/L			02/29/24 00:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/29/24 00:51	1
Acetone	2.2	J	5.0	1.0	ug/L			02/29/24 00:51	1
Benzene	ND		0.50	0.10	ug/L			02/29/24 00:51	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/29/24 00:51	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/29/24 00:51	1
Bromoform	ND		1.0	0.30	ug/L			02/29/24 00:51	1
Bromomethane	ND		0.50	0.10	ug/L			02/29/24 00:51	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/29/24 00:51	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/29/24 00:51	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/29/24 00:51	1
Chloroethane	ND		0.50	0.10	ug/L			02/29/24 00:51	1
Chloroform	ND		0.50	0.090	ug/L			02/29/24 00:51	1
Chloromethane	ND		0.50	0.10	ug/L			02/29/24 00:51	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/29/24 00:51	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/29/24 00:51	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/29/24 00:51	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/29/24 00:51	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/29/24 00:51	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/29/24 00:51	1
Styrene	ND		0.50	0.070	ug/L			02/29/24 00:51	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/29/24 00:51	1
Toluene	ND		0.50	0.080	ug/L			02/29/24 00:51	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 00:51	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/29/24 00:51	1
Trichloroethene	ND		0.50	0.080	ug/L			02/29/24 00:51	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/29/24 00:51	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/29/24 00:51	1

Client Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-10

Date Collected: 02/23/24 11:50

Matrix: Water

Date Received: 02/24/24 09:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		02/29/24 00:51	1
4-Bromofluorobenzene (Surr)	91		80 - 120		02/29/24 00:51	1
Dibromofluoromethane (Surr)	96		80 - 120		02/29/24 00:51	1
Toluene-d8 (Surr)	97		80 - 120		02/29/24 00:51	1

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

Lab Sample ID: 410-161790-11

Date Collected: 02/23/24 13:05

Matrix: Water

Date Received: 02/24/24 09:30

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			02/29/24 01:12	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 01:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/29/24 01:12	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 01:12	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/29/24 01:12	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 01:12	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/29/24 01:12	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/29/24 01:12	1
1,2-Dichloropropane	ND	^c *+ cn	0.50	0.10	ug/L			02/29/24 01:12	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			02/29/24 01:12	1
2-Hexanone	ND		5.0	2.0	ug/L			02/29/24 01:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/29/24 01:12	1
Acetone	ND		5.0	1.0	ug/L			02/29/24 01:12	1
Benzene	ND		0.50	0.10	ug/L			02/29/24 01:12	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/29/24 01:12	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/29/24 01:12	1
Bromoform	ND		1.0	0.30	ug/L			02/29/24 01:12	1
Bromomethane	ND		0.50	0.10	ug/L			02/29/24 01:12	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/29/24 01:12	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/29/24 01:12	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/29/24 01:12	1
Chloroethane	ND		0.50	0.10	ug/L			02/29/24 01:12	1
Chloroform	ND		0.50	0.090	ug/L			02/29/24 01:12	1
Chloromethane	ND		0.50	0.10	ug/L			02/29/24 01:12	1
cis-1,2-Dichloroethene	0.081	J	0.50	0.080	ug/L			02/29/24 01:12	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/29/24 01:12	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/29/24 01:12	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/29/24 01:12	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/29/24 01:12	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/29/24 01:12	1
Styrene	ND		0.50	0.070	ug/L			02/29/24 01:12	1
Tetrachloroethene	0.23	J	0.50	0.20	ug/L			02/29/24 01:12	1
Toluene	ND		0.50	0.080	ug/L			02/29/24 01:12	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 01:12	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/29/24 01:12	1
Trichloroethene	0.083	J	0.50	0.080	ug/L			02/29/24 01:12	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/29/24 01:12	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/29/24 01:12	1

Client Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-11

Date Collected: 02/23/24 13:05

Matrix: Water

Date Received: 02/24/24 09:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		02/29/24 01:12	1
4-Bromofluorobenzene (Surr)	92		80 - 120		02/29/24 01:12	1
Dibromofluoromethane (Surr)	96		80 - 120		02/29/24 01:12	1
Toluene-d8 (Surr)	99		80 - 120		02/29/24 01:12	1

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

Lab Sample ID: 410-161790-12

Date Collected: 02/23/24 09:45

Matrix: Water

Date Received: 02/24/24 09:30

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			02/29/24 01:32	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 01:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/29/24 01:32	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 01:32	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/29/24 01:32	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 01:32	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/29/24 01:32	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/29/24 01:32	1
1,2-Dichloropropane	ND	^c *+ cn	0.50	0.10	ug/L			02/29/24 01:32	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			02/29/24 01:32	1
2-Hexanone	ND		5.0	2.0	ug/L			02/29/24 01:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/29/24 01:32	1
Acetone	1.4	J	5.0	1.0	ug/L			02/29/24 01:32	1
Benzene	ND		0.50	0.10	ug/L			02/29/24 01:32	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/29/24 01:32	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/29/24 01:32	1
Bromoform	ND		1.0	0.30	ug/L			02/29/24 01:32	1
Bromomethane	ND		0.50	0.10	ug/L			02/29/24 01:32	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/29/24 01:32	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/29/24 01:32	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/29/24 01:32	1
Chloroethane	ND		0.50	0.10	ug/L			02/29/24 01:32	1
Chloroform	ND		0.50	0.090	ug/L			02/29/24 01:32	1
Chloromethane	0.12	J	0.50	0.10	ug/L			02/29/24 01:32	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/29/24 01:32	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/29/24 01:32	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/29/24 01:32	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/29/24 01:32	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/29/24 01:32	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/29/24 01:32	1
Styrene	ND		0.50	0.070	ug/L			02/29/24 01:32	1
Tetrachloroethene	0.29	J	0.50	0.20	ug/L			02/29/24 01:32	1
Toluene	ND		0.50	0.080	ug/L			02/29/24 01:32	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 01:32	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/29/24 01:32	1
Trichloroethene	ND		0.50	0.080	ug/L			02/29/24 01:32	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/29/24 01:32	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/29/24 01:32	1

Client Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-12

Date Collected: 02/23/24 09:45

Matrix: Water

Date Received: 02/24/24 09:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		02/29/24 01:32	1
4-Bromofluorobenzene (Surr)	93		80 - 120		02/29/24 01:32	1
Dibromofluoromethane (Surr)	94		80 - 120		02/29/24 01:32	1
Toluene-d8 (Surr)	99		80 - 120		02/29/24 01:32	1

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

Lab Sample ID: 410-161790-13

Date Collected: 02/23/24 12:00

Matrix: Water

Date Received: 02/24/24 09:30

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			02/29/24 02:33	1
1,1,1-Trichloroethane	8.7		0.50	0.080	ug/L			02/29/24 02:33	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/29/24 02:33	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 02:33	1
1,1-Dichloroethane	1.7		0.50	0.10	ug/L			02/29/24 02:33	1
1,1-Dichloroethene	0.70		0.50	0.10	ug/L			02/29/24 02:33	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/29/24 02:33	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/29/24 02:33	1
1,2-Dichloropropane	ND	^c *+ cn	0.50	0.10	ug/L			02/29/24 02:33	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			02/29/24 02:33	1
2-Hexanone	ND		5.0	2.0	ug/L			02/29/24 02:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/29/24 02:33	1
Acetone	ND		5.0	1.0	ug/L			02/29/24 02:33	1
Benzene	ND		0.50	0.10	ug/L			02/29/24 02:33	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/29/24 02:33	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/29/24 02:33	1
Bromoform	ND		1.0	0.30	ug/L			02/29/24 02:33	1
Bromomethane	ND		0.50	0.10	ug/L			02/29/24 02:33	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/29/24 02:33	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/29/24 02:33	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/29/24 02:33	1
Chloroethane	ND		0.50	0.10	ug/L			02/29/24 02:33	1
Chloroform	0.18	J	0.50	0.090	ug/L			02/29/24 02:33	1
Chloromethane	ND		0.50	0.10	ug/L			02/29/24 02:33	1
cis-1,2-Dichloroethene	3.1		0.50	0.080	ug/L			02/29/24 02:33	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/29/24 02:33	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/29/24 02:33	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/29/24 02:33	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/29/24 02:33	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/29/24 02:33	1
Styrene	ND		0.50	0.070	ug/L			02/29/24 02:33	1
Toluene	ND		0.50	0.080	ug/L			02/29/24 02:33	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 02:33	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/29/24 02:33	1
Trichloroethene	4.3		0.50	0.080	ug/L			02/29/24 02:33	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/29/24 02:33	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/29/24 02:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		02/29/24 02:33	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-13

Date Collected: 02/23/24 12:00

Matrix: Water

Date Received: 02/24/24 09:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		02/29/24 02:33	1
Dibromofluoromethane (Surr)	98		80 - 120		02/29/24 02:33	1
Toluene-d8 (Surr)	96		80 - 120		02/29/24 02:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	140		5.0	2.0	ug/L			02/29/24 02:53	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		02/29/24 02:53	10
4-Bromofluorobenzene (Surr)	91		80 - 120		02/29/24 02:53	10
Dibromofluoromethane (Surr)	94		80 - 120		02/29/24 02:53	10
Toluene-d8 (Surr)	100		80 - 120		02/29/24 02:53	10

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

Lab Sample ID: 410-161790-14

Date Collected: 02/23/24 00:00

Matrix: Water

Date Received: 02/24/24 09:30

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			02/28/24 20:48	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/28/24 20:48	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/28/24 20:48	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/28/24 20:48	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/28/24 20:48	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/28/24 20:48	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/28/24 20:48	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/28/24 20:48	1
1,2-Dichloropropane	ND	^c *+ cn	0.50	0.10	ug/L			02/28/24 20:48	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			02/28/24 20:48	1
2-Hexanone	ND		5.0	2.0	ug/L			02/28/24 20:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/28/24 20:48	1
Acetone	ND		5.0	1.0	ug/L			02/28/24 20:48	1
Benzene	ND		0.50	0.10	ug/L			02/28/24 20:48	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/28/24 20:48	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/28/24 20:48	1
Bromoform	ND		1.0	0.30	ug/L			02/28/24 20:48	1
Bromomethane	ND		0.50	0.10	ug/L			02/28/24 20:48	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/28/24 20:48	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/28/24 20:48	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/28/24 20:48	1
Chloroethane	ND		0.50	0.10	ug/L			02/28/24 20:48	1
Chloroform	0.23	J	0.50	0.090	ug/L			02/28/24 20:48	1
Chloromethane	ND		0.50	0.10	ug/L			02/28/24 20:48	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/28/24 20:48	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/28/24 20:48	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/28/24 20:48	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/28/24 20:48	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/28/24 20:48	1
Methylene Chloride	0.21	J	0.50	0.20	ug/L			02/28/24 20:48	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-14

Date Collected: 02/23/24 00:00

Matrix: Water

Date Received: 02/24/24 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.070	ug/L			02/28/24 20:48	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/28/24 20:48	1
Toluene	ND		0.50	0.080	ug/L			02/28/24 20:48	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/28/24 20:48	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/28/24 20:48	1
Trichloroethene	ND		0.50	0.080	ug/L			02/28/24 20:48	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/28/24 20:48	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/28/24 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		02/28/24 20:48	1
4-Bromofluorobenzene (Surr)	94		80 - 120		02/28/24 20:48	1
Dibromofluoromethane (Surr)	95		80 - 120		02/28/24 20:48	1
Toluene-d8 (Surr)	95		80 - 120		02/28/24 20:48	1

Default Detection Limits

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

Job ID: 410-161790-1

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	1.0	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: 410-161790-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	BFB (80-120)	DBFM (80-120)	TOL (80-120)
410-161790-1	HD-COD-SW-6-0/1-0	111	90	107	102
410-161790-2	HD-COD-SW-7-0/1-0	111	91	107	102
410-161790-3	HD-COD-SW-8-0/1-0	108	91	105	102
410-161790-4	HD-COD-SW-9-0/1-0	110	89	106	101
410-161790-5	HD-COD-SW-13-0/1-0	108	90	107	102
410-161790-6	HD-COD-SW-15-0/1-0	113	89	107	101
410-161790-6 MS	HD-COD-SW-15-0/1-0 MS	109	92	106	103
410-161790-6 MSD	HD-COD-SW-15-0/1-0 MSD	107	93	105	104
410-161790-7	HD-COD-SW-16-0/1-0	111	89	108	102
410-161790-8	HD-COD-SW-17-0/1-0	109	91	95	96
410-161790-8 - DL	HD-COD-SW-17-0/1-0	110	93	95	97
410-161790-9	HD-COD-SW-26-0/1-0	104	92	95	99
410-161790-10	HD-COD-SW-27-0/1-0	106	91	96	97
410-161790-11	HD-COD-SW-28-0/1-0	104	92	96	99
410-161790-12	HD-COD-SW-29-0/1-0	106	93	94	99
410-161790-13	HD-QC1-0/1-1	107	91	98	96
410-161790-13 - DL	HD-QC1-0/1-1	104	91	94	100
410-161790-14	HD-QC1-0/1-2	106	94	95	95
LCS 410-478015/4	Lab Control Sample	103	100	96	94
LCS 410-478337/5	Lab Control Sample	107	93	106	104
LCSD 410-478015/5	Lab Control Sample Dup	101	101	95	96
MB 410-478015/7	Method Blank	103	94	94	94
MB 410-478337/7	Method Blank	109	91	105	101

Surrogate Legend

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

QC Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: MB 410-478015/7

Matrix: Water

Analysis Batch: 478015

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			02/28/24 19:47	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/28/24 19:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/28/24 19:47	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/28/24 19:47	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/28/24 19:47	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/28/24 19:47	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/28/24 19:47	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/28/24 19:47	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/28/24 19:47	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/28/24 19:47	1
2-Hexanone	ND		5.0	2.0	ug/L			02/28/24 19:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/28/24 19:47	1
Acetone	ND		5.0	1.0	ug/L			02/28/24 19:47	1
Benzene	ND		0.50	0.10	ug/L			02/28/24 19:47	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/28/24 19:47	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/28/24 19:47	1
Bromoform	ND		1.0	0.30	ug/L			02/28/24 19:47	1
Bromomethane	ND		0.50	0.10	ug/L			02/28/24 19:47	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/28/24 19:47	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/28/24 19:47	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/28/24 19:47	1
Chloroethane	ND		0.50	0.10	ug/L			02/28/24 19:47	1
Chloroform	ND		0.50	0.090	ug/L			02/28/24 19:47	1
Chloromethane	ND		0.50	0.10	ug/L			02/28/24 19:47	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/28/24 19:47	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/28/24 19:47	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/28/24 19:47	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/28/24 19:47	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/28/24 19:47	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/28/24 19:47	1
Styrene	ND		0.50	0.070	ug/L			02/28/24 19:47	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/28/24 19:47	1
Toluene	ND		0.50	0.080	ug/L			02/28/24 19:47	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/28/24 19:47	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/28/24 19:47	1
Trichloroethene	ND		0.50	0.080	ug/L			02/28/24 19:47	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/28/24 19:47	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/28/24 19:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		02/28/24 19:47	1
4-Bromofluorobenzene (Surr)	94		80 - 120		02/28/24 19:47	1
Dibromofluoromethane (Surr)	94		80 - 120		02/28/24 19:47	1
Toluene-d8 (Surr)	94		80 - 120		02/28/24 19:47	1

QC Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: LCS 410-478015/4

Matrix: Water

Analysis Batch: 478015

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	4.95		ug/L		99	71 - 134
1,1,1-Trichloroethane	5.00	4.95		ug/L		99	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.86		ug/L		97	75 - 123
1,1,2-Trichloroethane	5.00	5.24		ug/L		105	80 - 120
1,1-Dichloroethane	5.00	5.80		ug/L		116	74 - 120
1,1-Dichloroethene	5.00	5.04		ug/L		101	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.02		ug/L		100	80 - 120
1,2-Dichloroethane	5.00	5.00		ug/L		100	69 - 122
1,2-Dichloropropane	5.00	6.14	*+	ug/L		123	80 - 120
2-Butanone (MEK)	62.5	83.7		ug/L		134	59 - 141
2-Hexanone	62.5	78.0		ug/L		125	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	75.7		ug/L		121	55 - 140
Acetone	62.5	62.3		ug/L		100	60 - 146
Benzene	5.00	5.84		ug/L		117	80 - 120
Bromochloromethane	5.00	5.78		ug/L		116	80 - 120
Bromodichloromethane	5.00	5.34		ug/L		107	73 - 124
Bromoform	5.00	4.63		ug/L		93	49 - 144
Bromomethane	5.00	5.16		ug/L		103	60 - 136
Carbon disulfide	5.00	5.27		ug/L		105	67 - 130
Carbon tetrachloride	5.00	5.30		ug/L		106	64 - 141
Chlorobenzene	5.00	5.24		ug/L		105	80 - 120
Chloroethane	5.00	5.72		ug/L		114	63 - 120
Chloroform	5.00	5.43		ug/L		109	80 - 120
Chloromethane	5.00	4.78		ug/L		96	56 - 124
cis-1,2-Dichloroethene	5.00	5.40		ug/L		108	80 - 122
cis-1,3-Dichloropropene	5.00	5.37		ug/L		107	67 - 121
Dibromochloromethane	5.00	4.97		ug/L		99	64 - 138
Ethylbenzene	5.00	5.09		ug/L		102	80 - 120
Methyl tert-butyl ether	5.00	5.16		ug/L		103	69 - 120
Methylene Chloride	5.00	5.58		ug/L		112	80 - 120
Styrene	5.00	5.03		ug/L		101	80 - 120
Tetrachloroethene	5.00	4.88		ug/L		98	80 - 120
Toluene	5.00	5.07		ug/L		101	80 - 120
trans-1,2-Dichloroethene	5.00	5.32		ug/L		106	80 - 122
trans-1,3-Dichloropropene	5.00	5.00		ug/L		100	61 - 129
Trichloroethene	5.00	5.42		ug/L		108	80 - 120
Vinyl chloride	5.00	4.89		ug/L		98	60 - 125
Xylenes, Total	15.0	15.3		ug/L		102	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	96		80 - 120
Toluene-d8 (Surr)	94		80 - 120

QC Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: LCSD 410-478015/5

Matrix: Water

Analysis Batch: 478015

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	4.90		ug/L		98	71 - 134	1	30
1,1,1-Trichloroethane	5.00	4.84		ug/L		97	78 - 126	2	30
1,1,2,2-Tetrachloroethane	5.00	4.87		ug/L		97	75 - 123	0	30
1,1,2-Trichloroethane	5.00	5.17		ug/L		103	80 - 120	1	30
1,1-Dichloroethane	5.00	5.57		ug/L		111	74 - 120	4	30
1,1-Dichloroethene	5.00	4.76		ug/L		95	80 - 131	6	30
1,2-Dibromoethane (EDB)	5.00	4.92		ug/L		98	80 - 120	2	30
1,2-Dichloroethane	5.00	4.84		ug/L		97	69 - 122	3	30
1,2-Dichloropropane	5.00	5.99		ug/L		120	80 - 120	3	30
2-Butanone (MEK)	62.5	83.5		ug/L		134	59 - 141	0	30
2-Hexanone	62.5	78.9		ug/L		126	52 - 140	1	30
4-Methyl-2-pentanone (MIBK)	62.5	75.9		ug/L		121	55 - 140	0	30
Acetone	62.5	66.5		ug/L		106	60 - 146	7	30
Benzene	5.00	5.55		ug/L		111	80 - 120	5	30
Bromochloromethane	5.00	5.65		ug/L		113	80 - 120	2	30
Bromodichloromethane	5.00	5.15		ug/L		103	73 - 124	4	30
Bromoform	5.00	4.52		ug/L		90	49 - 144	2	30
Bromomethane	5.00	5.01		ug/L		100	60 - 136	3	30
Carbon disulfide	5.00	5.00		ug/L		100	67 - 130	5	30
Carbon tetrachloride	5.00	5.07		ug/L		101	64 - 141	4	30
Chlorobenzene	5.00	5.17		ug/L		103	80 - 120	1	30
Chloroethane	5.00	5.52		ug/L		110	63 - 120	4	30
Chloroform	5.00	5.24		ug/L		105	80 - 120	4	30
Chloromethane	5.00	4.45		ug/L		89	56 - 124	7	30
cis-1,2-Dichloroethene	5.00	5.27		ug/L		105	80 - 122	2	30
cis-1,3-Dichloropropene	5.00	5.25		ug/L		105	67 - 121	2	30
Dibromochloromethane	5.00	4.93		ug/L		99	64 - 138	1	30
Ethylbenzene	5.00	5.06		ug/L		101	80 - 120	1	30
Methyl tert-butyl ether	5.00	4.93		ug/L		99	69 - 120	5	30
Methylene Chloride	5.00	5.31		ug/L		106	80 - 120	5	30
Styrene	5.00	5.00		ug/L		100	80 - 120	1	30
Tetrachloroethene	5.00	4.84		ug/L		97	80 - 120	1	30
Toluene	5.00	5.07		ug/L		101	80 - 120	0	30
trans-1,2-Dichloroethene	5.00	5.03		ug/L		101	80 - 122	6	30
trans-1,3-Dichloropropene	5.00	5.01		ug/L		100	61 - 129	0	30
Trichloroethene	5.00	5.15		ug/L		103	80 - 120	5	30
Vinyl chloride	5.00	4.65		ug/L		93	60 - 125	5	30
Xylenes, Total	15.0	15.1		ug/L		101	80 - 120	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	95		80 - 120
Toluene-d8 (Surr)	96		80 - 120

QC Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: MB 410-478337/7

Matrix: Water

Analysis Batch: 478337

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			02/29/24 14:20	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 14:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/29/24 14:20	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/29/24 14:20	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/29/24 14:20	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 14:20	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/29/24 14:20	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/29/24 14:20	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/29/24 14:20	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/29/24 14:20	1
2-Hexanone	ND		5.0	2.0	ug/L			02/29/24 14:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/29/24 14:20	1
Acetone	ND		5.0	1.0	ug/L			02/29/24 14:20	1
Benzene	ND		0.50	0.10	ug/L			02/29/24 14:20	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/29/24 14:20	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/29/24 14:20	1
Bromoform	ND		1.0	0.30	ug/L			02/29/24 14:20	1
Bromomethane	ND		0.50	0.10	ug/L			02/29/24 14:20	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/29/24 14:20	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/29/24 14:20	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/29/24 14:20	1
Chloroethane	ND		0.50	0.10	ug/L			02/29/24 14:20	1
Chloroform	ND		0.50	0.090	ug/L			02/29/24 14:20	1
Chloromethane	ND		0.50	0.10	ug/L			02/29/24 14:20	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/29/24 14:20	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/29/24 14:20	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/29/24 14:20	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/29/24 14:20	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/29/24 14:20	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/29/24 14:20	1
Styrene	ND		0.50	0.070	ug/L			02/29/24 14:20	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/29/24 14:20	1
Toluene	ND		0.50	0.080	ug/L			02/29/24 14:20	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/29/24 14:20	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/29/24 14:20	1
Trichloroethene	ND		0.50	0.080	ug/L			02/29/24 14:20	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/29/24 14:20	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/29/24 14:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		80 - 120		02/29/24 14:20	1
4-Bromofluorobenzene (Surr)	91		80 - 120		02/29/24 14:20	1
Dibromofluoromethane (Surr)	105		80 - 120		02/29/24 14:20	1
Toluene-d8 (Surr)	101		80 - 120		02/29/24 14:20	1

QC Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: LCS 410-478337/5

Matrix: Water

Analysis Batch: 478337

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	5.48		ug/L		110	71 - 134
1,1,1-Trichloroethane	5.00	5.17		ug/L		103	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.45		ug/L		109	75 - 123
1,1,2-Trichloroethane	5.00	5.38		ug/L		108	80 - 120
1,1-Dichloroethane	5.00	5.16		ug/L		103	74 - 120
1,1-Dichloroethene	5.00	5.37		ug/L		107	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.32		ug/L		106	80 - 120
1,2-Dichloroethane	5.00	4.95		ug/L		99	69 - 122
1,2-Dichloropropane	5.00	5.43		ug/L		109	80 - 120
2-Butanone (MEK)	62.5	50.0		ug/L		80	59 - 141
2-Hexanone	62.5	63.0		ug/L		101	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	65.7		ug/L		105	55 - 140
Acetone	62.5	50.3		ug/L		81	60 - 146
Benzene	5.00	5.25		ug/L		105	80 - 120
Bromochloromethane	5.00	5.48		ug/L		110	80 - 120
Bromodichloromethane	5.00	5.52		ug/L		110	73 - 124
Bromoform	5.00	5.51		ug/L		110	49 - 144
Bromomethane	5.00	4.88		ug/L		98	60 - 136
Carbon disulfide	5.00	4.93		ug/L		99	67 - 130
Carbon tetrachloride	5.00	5.35		ug/L		107	64 - 141
Chlorobenzene	5.00	5.37		ug/L		107	80 - 120
Chloroethane	5.00	5.03		ug/L		101	63 - 120
Chloroform	5.00	5.06		ug/L		101	80 - 120
Chloromethane	5.00	4.80		ug/L		96	56 - 124
cis-1,2-Dichloroethene	5.00	5.33		ug/L		107	80 - 122
cis-1,3-Dichloropropene	5.00	5.05		ug/L		101	67 - 121
Dibromochloromethane	5.00	5.61		ug/L		112	64 - 138
Ethylbenzene	5.00	5.21		ug/L		104	80 - 120
Methyl tert-butyl ether	5.00	4.61		ug/L		92	69 - 120
Methylene Chloride	5.00	5.13		ug/L		103	80 - 120
Styrene	5.00	5.35		ug/L		107	80 - 120
Tetrachloroethene	5.00	5.29		ug/L		106	80 - 120
Toluene	5.00	5.19		ug/L		104	80 - 120
trans-1,2-Dichloroethene	5.00	5.20		ug/L		104	80 - 122
trans-1,3-Dichloropropene	5.00	5.16		ug/L		103	61 - 129
Trichloroethene	5.00	5.30		ug/L		106	80 - 120
Vinyl chloride	5.00	4.83		ug/L		97	60 - 125
Xylenes, Total	15.0	15.8		ug/L		105	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		80 - 120
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	106		80 - 120
Toluene-d8 (Surr)	104		80 - 120

QC Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-6 MS

Matrix: Water

Analysis Batch: 478337

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	5.27		ug/L		105	71 - 134
1,1,1-Trichloroethane	0.31	J	5.00	5.69		ug/L		107	78 - 126
1,1,2,2-Tetrachloroethane	ND		5.00	4.89		ug/L		98	75 - 123
1,1,2-Trichloroethane	ND		5.00	5.05		ug/L		101	80 - 120
1,1-Dichloroethane	0.12	J	5.00	5.44		ug/L		106	74 - 120
1,1-Dichloroethene	0.20	J	5.00	5.85		ug/L		113	80 - 131
1,2-Dibromoethane (EDB)	ND		5.00	4.97		ug/L		99	80 - 120
1,2-Dichloroethane	ND		5.00	4.84		ug/L		97	69 - 122
1,2-Dichloropropane	ND		5.00	5.26		ug/L		105	80 - 120
2-Butanone (MEK)	ND		62.6	65.2		ug/L		104	59 - 141
2-Hexanone	ND		62.6	72.3		ug/L		116	52 - 140
4-Methyl-2-pentanone (MIBK)	ND		62.6	71.6		ug/L		114	55 - 140
Acetone	ND		62.6	68.5		ug/L		109	60 - 146
Benzene	ND		5.00	5.32		ug/L		106	80 - 120
Bromochloromethane	ND		5.00	5.52		ug/L		110	80 - 120
Bromodichloromethane	ND		5.00	5.22		ug/L		104	73 - 124
Bromoform	ND		5.00	5.05		ug/L		101	49 - 144
Bromomethane	ND		5.00	5.09		ug/L		102	60 - 136
Carbon disulfide	ND		5.00	5.29		ug/L		106	67 - 130
Carbon tetrachloride	ND		5.00	5.61		ug/L		112	64 - 141
Chlorobenzene	ND		5.00	5.41		ug/L		108	80 - 120
Chloroethane	ND		5.00	5.39		ug/L		108	63 - 120
Chloroform	0.21	J	5.00	5.25		ug/L		101	80 - 120
Chloromethane	ND		5.00	4.97		ug/L		99	80 - 120
cis-1,2-Dichloroethene	1.6		5.00	7.06		ug/L		108	80 - 122
cis-1,3-Dichloropropene	ND		5.00	4.72		ug/L		94	67 - 121
Dibromochloromethane	ND		5.00	5.27		ug/L		105	64 - 138
Ethylbenzene	ND		5.00	5.31		ug/L		106	80 - 120
Methyl tert-butyl ether	ND		5.00	4.54		ug/L		91	69 - 120
Methylene Chloride	ND		5.00	5.29		ug/L		106	80 - 120
Styrene	ND		5.00	5.27		ug/L		105	80 - 120
Tetrachloroethene	6.5	FH	5.00	12.0		ug/L		109	80 - 120
Toluene	ND		5.00	5.29		ug/L		106	80 - 120
trans-1,2-Dichloroethene	ND		5.00	5.40		ug/L		108	80 - 122
trans-1,3-Dichloropropene	ND		5.00	4.73		ug/L		94	61 - 129
Trichloroethene	1.6		5.00	6.95		ug/L		108	80 - 120
Vinyl chloride	ND		5.00	5.23		ug/L		104	60 - 125
Xylenes, Total	ND		15.0	15.9		ug/L		106	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		80 - 120
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	106		80 - 120
Toluene-d8 (Surr)	103		80 - 120

QC Sample Results

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-6 MSD

Matrix: Water

Analysis Batch: 478337

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	5.70		ug/L		114	71 - 134	8	30
1,1,1-Trichloroethane	0.31	J	5.00	6.05		ug/L		115	78 - 126	6	30
1,1,2,2-Tetrachloroethane	ND		5.00	5.21		ug/L		104	75 - 123	6	30
1,1,2-Trichloroethane	ND		5.00	5.39		ug/L		108	80 - 120	6	30
1,1-Dichloroethane	0.12	J	5.00	5.82		ug/L		114	74 - 120	7	30
1,1-Dichloroethene	0.20	J	5.00	6.13		ug/L		119	80 - 131	5	30
1,2-Dibromoethane (EDB)	ND		5.00	5.22		ug/L		104	80 - 120	5	30
1,2-Dichloroethane	ND		5.00	5.20		ug/L		104	69 - 122	7	30
1,2-Dichloropropane	ND		5.00	5.55		ug/L		111	80 - 120	5	30
2-Butanone (MEK)	ND		62.6	66.0		ug/L		105	59 - 141	1	30
2-Hexanone	ND		62.6	72.6		ug/L		116	52 - 140	0	30
4-Methyl-2-pentanone (MIBK)	ND		62.6	71.1		ug/L		114	55 - 140	1	30
Acetone	ND		62.6	70.8		ug/L		113	60 - 146	3	30
Benzene	ND		5.00	5.61		ug/L		112	80 - 120	5	30
Bromochloromethane	ND		5.00	5.81		ug/L		116	80 - 120	5	30
Bromodichloromethane	ND		5.00	5.49		ug/L		110	73 - 124	5	30
Bromoform	ND		5.00	5.35		ug/L		107	49 - 144	6	30
Bromomethane	ND		5.00	5.61		ug/L		112	60 - 136	10	30
Carbon disulfide	ND		5.00	5.57		ug/L		111	67 - 130	5	30
Carbon tetrachloride	ND		5.00	5.94		ug/L		119	64 - 141	6	30
Chlorobenzene	ND		5.00	5.72		ug/L		114	80 - 120	6	30
Chloroethane	ND		5.00	5.83		ug/L		116	63 - 120	8	30
Chloroform	0.21	J	5.00	5.52		ug/L		106	80 - 120	5	30
Chloromethane	ND		5.00	5.27		ug/L		105	80 - 120	6	30
cis-1,2-Dichloroethene	1.6		5.00	7.38		ug/L		115	80 - 122	4	30
cis-1,3-Dichloropropene	ND		5.00	5.07		ug/L		101	67 - 121	7	30
Dibromochloromethane	ND		5.00	5.71		ug/L		114	64 - 138	8	30
Ethylbenzene	ND		5.00	5.71		ug/L		114	80 - 120	7	30
Methyl tert-butyl ether	ND		5.00	4.80		ug/L		96	69 - 120	6	30
Methylene Chloride	ND		5.00	5.58		ug/L		112	80 - 120	5	30
Styrene	ND		5.00	5.58		ug/L		111	80 - 120	6	30
Tetrachloroethene	6.5	FH	5.00	12.6	FH	ug/L		121	80 - 120	5	30
Toluene	ND		5.00	5.69		ug/L		114	80 - 120	7	30
trans-1,2-Dichloroethene	ND		5.00	5.73		ug/L		114	80 - 122	6	30
trans-1,3-Dichloropropene	ND		5.00	5.10		ug/L		102	61 - 129	8	30
Trichloroethene	1.6		5.00	7.31		ug/L		115	80 - 120	5	30
Vinyl chloride	ND		5.00	5.82		ug/L		116	60 - 125	11	30
Xylenes, Total	ND		15.0	17.0		ug/L		113	80 - 120	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		80 - 120
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	105		80 - 120
Toluene-d8 (Surr)	104		80 - 120

QC Association Summary

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

Job ID: 410-161790-1

GC/MS VOA

Analysis Batch: 478015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-161790-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-161790-8 - DL	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-161790-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-161790-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
410-161790-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-161790-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-161790-13	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-161790-13 - DL	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-161790-14	HD-QC1-0/1-2	Total/NA	Water	8260D	
MB 410-478015/7	Method Blank	Total/NA	Water	8260D	
LCS 410-478015/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-478015/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 478337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-161790-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-161790-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-161790-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
410-161790-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-161790-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-161790-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-161790-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
MB 410-478337/7	Method Blank	Total/NA	Water	8260D	
LCS 410-478337/5	Lab Control Sample	Total/NA	Water	8260D	
410-161790-6 MS	HD-COD-SW-15-0/1-0 MS	Total/NA	Water	8260D	
410-161790-6 MSD	HD-COD-SW-15-0/1-0 MSD	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-1

Date Collected: 02/23/24 11:03

Matrix: Water

Date Received: 02/24/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	478337	TQ4J	ELLE	02/29/24 15:27

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

Lab Sample ID: 410-161790-2

Date Collected: 02/23/24 11:40

Matrix: Water

Date Received: 02/24/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	478337	TQ4J	ELLE	02/29/24 15:49

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

Lab Sample ID: 410-161790-3

Date Collected: 02/23/24 09:59

Matrix: Water

Date Received: 02/24/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	478337	TQ4J	ELLE	02/29/24 16:11

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

Lab Sample ID: 410-161790-4

Date Collected: 02/23/24 12:55

Matrix: Water

Date Received: 02/24/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	478337	TQ4J	ELLE	02/29/24 16:33

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

Lab Sample ID: 410-161790-5

Date Collected: 02/23/24 10:15

Matrix: Water

Date Received: 02/24/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	478337	TQ4J	ELLE	02/29/24 16:55

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

Lab Sample ID: 410-161790-6

Date Collected: 02/23/24 11:59

Matrix: Water

Date Received: 02/24/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	478337	TQ4J	ELLE	02/29/24 17:17

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

Lab Sample ID: 410-161790-7

Date Collected: 02/23/24 10:37

Matrix: Water

Date Received: 02/24/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	478337	TQ4J	ELLE	02/29/24 18:24

Lab Chronicle

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

Job ID: 410-161790-1

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

Lab Sample ID: 410-161790-8

Date Collected: 02/23/24 10:45

Matrix: Water

Date Received: 02/24/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	478015	JS6E	ELLE	02/29/24 01:52
Total/NA	Analysis	8260D	DL	10	478015	JS6E	ELLE	02/29/24 02:12

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

Lab Sample ID: 410-161790-9

Date Collected: 02/23/24 11:22

Matrix: Water

Date Received: 02/24/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	478015	JS6E	ELLE	02/29/24 00:31

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

Lab Sample ID: 410-161790-10

Date Collected: 02/23/24 11:50

Matrix: Water

Date Received: 02/24/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	478015	JS6E	ELLE	02/29/24 00:51

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

Lab Sample ID: 410-161790-11

Date Collected: 02/23/24 13:05

Matrix: Water

Date Received: 02/24/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	478015	JS6E	ELLE	02/29/24 01:12

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

Lab Sample ID: 410-161790-12

Date Collected: 02/23/24 09:45

Matrix: Water

Date Received: 02/24/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	478015	JS6E	ELLE	02/29/24 01:32

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

Lab Sample ID: 410-161790-13

Date Collected: 02/23/24 12:00

Matrix: Water

Date Received: 02/24/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	478015	JS6E	ELLE	02/29/24 02:33
Total/NA	Analysis	8260D	DL	10	478015	JS6E	ELLE	02/29/24 02:53

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

Lab Sample ID: 410-161790-14

Date Collected: 02/23/24 00:00

Matrix: Water

Date Received: 02/24/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	478015	JS6E	ELLE	02/28/24 20:48

Lab Chronicle

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

Job ID: 410-161790-1

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 410-161790-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-28-25

Method Summary

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

Job ID: 410-161790-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Job ID: 410-161790-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-161790-1	HD-COD-SW-6-0/1-0	Water	02/23/24 11:03	02/24/24 09:30
410-161790-2	HD-COD-SW-7-0/1-0	Water	02/23/24 11:40	02/24/24 09:30
410-161790-3	HD-COD-SW-8-0/1-0	Water	02/23/24 09:59	02/24/24 09:30
410-161790-4	HD-COD-SW-9-0/1-0	Water	02/23/24 12:55	02/24/24 09:30
410-161790-5	HD-COD-SW-13-0/1-0	Water	02/23/24 10:15	02/24/24 09:30
410-161790-6	HD-COD-SW-15-0/1-0	Water	02/23/24 11:59	02/24/24 09:30
410-161790-7	HD-COD-SW-16-0/1-0	Water	02/23/24 10:37	02/24/24 09:30
410-161790-8	HD-COD-SW-17-0/1-0	Water	02/23/24 10:45	02/24/24 09:30
410-161790-9	HD-COD-SW-26-0/1-0	Water	02/23/24 11:22	02/24/24 09:30
410-161790-10	HD-COD-SW-27-0/1-0	Water	02/23/24 11:50	02/24/24 09:30
410-161790-11	HD-COD-SW-28-0/1-0	Water	02/23/24 13:05	02/24/24 09:30
410-161790-12	HD-COD-SW-29-0/1-0	Water	02/23/24 09:45	02/24/24 09:30
410-161790-13	HD-QC1-0/1-1	Water	02/23/24 12:00	02/24/24 09:30
410-161790-14	HD-QC1-0/1-2	Water	02/23/24 00:00	02/24/24 09:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Instrument ID: 10193

Analysis Batch Number: 452392

Lab Sample ID: IC 410-452392/3

Client Sample ID: _____

Date Analyzed: 12/11/23 17:46

Lab File ID: copy_CD11X02.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methoxymethane	1.89	Incomplete Integration	DVW2	12/12/23 10:42
Acetonitrile	3.61	Incomplete Integration	DVW2	12/12/23 12:21
Ethyl acetate	5.78	Incomplete Integration	DVW2	12/12/23 10:42

Lab Sample ID: IC 410-452392/5

Client Sample ID: _____

Date Analyzed: 12/11/23 18:30

Lab File ID: CD11X04.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.62	Other	UKEK	12/14/23 10:33

Lab Sample ID: IC 410-452392/6

Client Sample ID: _____

Date Analyzed: 12/11/23 18:52

Lab File ID: CD11X05.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.61	Incomplete Integration	DVW2	12/12/23 10:45

Lab Sample ID: IC 410-452392/7

Client Sample ID: _____

Date Analyzed: 12/11/23 19:14

Lab File ID: CD11X06.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.62	Incomplete Integration	DVW2	12/12/23 10:46

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Instrument ID: 10193

Analysis Batch Number: 452392

Lab Sample ID: IC 410-452392/8

Client Sample ID: _____

Date Analyzed: 12/11/23 19:37

Lab File ID: CD11X07.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.62	Incomplete Integration	DVW2	12/12/23 10:47

Lab Sample ID: IC 410-452392/9

Client Sample ID: _____

Date Analyzed: 12/11/23 19:59

Lab File ID: CD11X08.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.62	Incomplete Integration	DVW2	12/12/23 10:48

Lab Sample ID: IC 410-452392/13

Client Sample ID: _____

Date Analyzed: 12/11/23 21:27

Lab File ID: CD11X12.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Freon 123a	3.06	Incomplete Integration	DVW2	12/12/23 10:54
Methyl acetate	3.63	Incomplete Integration	DVW2	12/12/23 10:54
Ethyl t-butyl ether	5.48	Incomplete Integration	DVW2	12/12/23 10:54
2-Butanone (MEK)	5.69	Incomplete Integration	DVW2	12/12/23 10:55
Tetrahydrofuran	6.07	Incomplete Integration	DVW2	12/12/23 12:43
1,4-Dioxane	8.26	Incomplete Integration	DVW2	12/12/23 10:55

Lab Sample ID: IC 410-452392/14

Client Sample ID: _____

Date Analyzed: 12/11/23 21:50

Lab File ID: CD11X13.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Freon 123a	3.07	Incomplete Integration	DVW2	12/12/23 11:00
1,4-Dioxane	8.27	Incomplete Integration	DVW2	12/12/23 11:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Instrument ID: 10193

Analysis Batch Number: 452392

Lab Sample ID: IC 410-452392/15

Client Sample ID: _____

Date Analyzed: 12/11/23 22:12

Lab File ID: CD11X14.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.27	Incomplete Integration	DVW2	12/12/23 11:03

Lab Sample ID: IC 410-452392/16

Client Sample ID: _____

Date Analyzed: 12/11/23 22:34

Lab File ID: CD11X15.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.26	Incomplete Integration	DVW2	12/12/23 11:05

Lab Sample ID: IC 410-452392/17

Client Sample ID: _____

Date Analyzed: 12/11/23 22:57

Lab File ID: CD11X16.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.26	Incomplete Integration	DVW2	12/12/23 11:07

Lab Sample ID: ICIS 410-452392/18

Client Sample ID: _____

Date Analyzed: 12/11/23 23:19

Lab File ID: CD11X17.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	3.84	Split Peak	UKEK	12/14/23 10:37
1,4-Dioxane	8.26	Incomplete Integration	DVW2	12/12/23 12:17

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Instrument ID: 10193

Analysis Batch Number: 452392

Lab Sample ID: IC 410-452392/19

Client Sample ID: _____

Date Analyzed: 12/11/23 23:41

Lab File ID: CD11X18.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	3.85	Split Peak	UKEK	12/14/23 10:35
1,4-Dioxane	8.26	Incomplete Integration	DVW2	12/12/23 11:10

Lab Sample ID: ICV 410-452392/21

Client Sample ID: _____

Date Analyzed: 12/12/23 00:25

Lab File ID: CD11X20.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.26	Incomplete Integration	DVW2	12/12/23 11:12

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Instrument ID: 10193

Analysis Batch Number: 478337

Lab Sample ID: CCVIS 410-478337/3

Client Sample ID: _____

Date Analyzed: 02/29/24 12:51

Lab File ID: CF29X02.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.65	Incomplete Integration	DVW2	02/29/24 13:14

Lab Sample ID: MB 410-478337/7

Client Sample ID: _____

Date Analyzed: 02/29/24 14:20

Lab File ID: CF29X06.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide		Incomplete Integration	DVW2	02/29/24 14:50

Lab Sample ID: 410-161790-1

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

Date Analyzed: 02/29/24 15:27

Lab File ID: CF29X09.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	5.71	Incomplete Integration	N9NA	03/03/24 22:53

Lab Sample ID: 410-161790-2

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

Date Analyzed: 02/29/24 15:49

Lab File ID: CF29X10.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzene	6.93	Incomplete Integration	N9NA	03/03/24 22:53
Trichloroethene	7.82	Incomplete Integration	N9NA	03/03/24 22:53

Lab Sample ID: 410-161790-3

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

Date Analyzed: 02/29/24 16:11

Lab File ID: CF29X11.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	5.71	Incomplete Integration	N9NA	03/03/24 22:54

8260D

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Instrument ID: 10193

Analysis Batch Number: 478337

Lab Sample ID: 410-161790-5

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

Date Analyzed: 02/29/24 16:55

Lab File ID: CF29X13.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	6.22	Incomplete Integration	N9NA	03/03/24 22:55
Trichloroethene	7.82	Incomplete Integration	N9NA	03/03/24 22:55
1,1,1-Trichloroethane		Invalid Compound ID	N9NA	03/03/24 22:55

Lab Sample ID: 410-161790-7

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

Date Analyzed: 02/29/24 18:24

Lab File ID: CF29X17.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	5.73	Incomplete Integration	N9NA	03/03/24 23:00
Chloroform	6.21	Incomplete Integration	N9NA	03/03/24 23:00
Benzene	6.90	Incomplete Integration	N9NA	03/03/24 23:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Instrument ID: 19094

Analysis Batch Number: 431955

Lab Sample ID: IC 410-431955/3

Client Sample ID: _____

Date Analyzed: 10/17/23 04:22

Lab File ID: HO16X02.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorodifluoromethane	1.89	Incomplete Integration	DVW2	10/17/23 12:06
Acetonitrile	3.79	Incomplete Integration	DVW2	10/17/23 12:07
cis-1,4-Dichloro-2-butene	11.96	Incomplete Integration	DVW2	10/17/23 12:07

Lab Sample ID: IC 410-431955/4

Client Sample ID: _____

Date Analyzed: 10/17/23 04:42

Lab File ID: HO16X03.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.82	Incomplete Integration	DVW2	10/17/23 12:07
cis-1,4-Dichloro-2-butene	11.96	Wrong peak	UCB5	10/20/23 12:13

Lab Sample ID: IC 410-431955/5

Client Sample ID: _____

Date Analyzed: 10/17/23 05:02

Lab File ID: HO16X04.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.80	Incomplete Integration	DVW2	10/17/23 12:08
cis-1,4-Dichloro-2-butene	11.96	Incomplete Integration	DVW2	10/17/23 12:09

Lab Sample ID: IC 410-431955/6

Client Sample ID: _____

Date Analyzed: 10/17/23 05:22

Lab File ID: HO16X05.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.83	Incomplete Integration	DVW2	10/17/23 12:09
cis-1,4-Dichloro-2-butene	11.96	Incomplete Integration	DVW2	10/17/23 12:09

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

Instrument ID: 19094

Analysis Batch Number: 431955

Lab Sample ID: IC 410-431955/7

Client Sample ID:

Date Analyzed: 10/17/23 05:42

Lab File ID: HO16X06.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.79	Incomplete Integration	DVW2	10/17/23 12:10
cis-1,4-Dichloro-2-butene	11.96	Incomplete Integration	DVW2	10/17/23 12:10

Lab Sample ID: IC 410-431955/8

Client Sample ID:

Date Analyzed: 10/17/23 06:02

Lab File ID: HO16X07.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,4-Dichloro-2-butene	11.96	Incomplete Integration	DVW2	10/17/23 12:06

Lab Sample ID: IC 410-431955/9

Client Sample ID:

Date Analyzed: 10/17/23 06:22

Lab File ID: HO16X08.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,4-Dichloro-2-butene	11.96	Incomplete Integration	DVW2	10/17/23 12:12

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Instrument ID: 19094

Analysis Batch Number: 431955

Lab Sample ID: IC 410-431955/13

Client Sample ID: _____

Date Analyzed: 10/17/23 07:43

Lab File ID: H016X12.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.87	Incomplete Integration	DVW2	10/17/23 13:19
Acetone	3.40	Incomplete Integration	DVW2	10/18/23 08:27
Methyl acetate	3.82	Incomplete Integration	DVW2	10/18/23 08:27
trans-1,2-Dichloroethene	4.40	Incomplete Integration	DVW2	10/18/23 08:27
cis-1,2-Dichloroethene	5.89	Incomplete Integration	DVW2	10/18/23 08:27
Propionitrile	5.98	Incomplete Integration	DVW2	10/18/23 08:28
Cyclohexane	6.72	Incomplete Integration	DVW2	10/18/23 08:28
n-Heptane	7.52	Incomplete Integration	DVW2	10/18/23 08:28
Methylcyclohexane	8.31	Incomplete Integration	DVW2	10/18/23 08:28
1-Bromo-2-chloroethane	9.09	Incomplete Integration	DVW2	10/18/23 08:29

Lab Sample ID: IC 410-431955/14

Client Sample ID: _____

Date Analyzed: 10/17/23 08:03

Lab File ID: H016X13.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.87	Incomplete Integration	DVW2	10/18/23 08:30
Methyl acetate	3.81	Incomplete Integration	DVW2	10/18/23 08:31
Propionitrile	5.98	Incomplete Integration	DVW2	10/18/23 08:31
Tetrahydrofuran	6.26	Incomplete Integration	DVW2	10/18/23 08:31
1,4-Dioxane	8.44	Incomplete Integration	DVW2	10/18/23 08:32
1,1,2,2-Tetrachloroethane	12.16	Incomplete Integration	DVW2	10/18/23 08:32

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Instrument ID: 19094

Analysis Batch Number: 431955

Lab Sample ID: IC 410-431955/15

Client Sample ID: _____

Date Analyzed: 10/17/23 08:23

Lab File ID: HO16X14.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.87	Incomplete Integration	DVW2	10/18/23 08:33
Acetone	3.41	Incomplete Integration	DVW2	10/18/23 08:34
Propionitrile	5.97	Incomplete Integration	DVW2	10/18/23 08:34

Lab Sample ID: IC 410-431955/16

Client Sample ID: _____

Date Analyzed: 10/17/23 08:43

Lab File ID: HO16X15.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.87	Incomplete Integration	DVW2	10/18/23 08:35

Lab Sample ID: ICIS 410-431955/18

Client Sample ID: _____

Date Analyzed: 10/17/23 09:23

Lab File ID: HO16X17.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.87	Incomplete Integration	DVW2	10/18/23 08:38
Methyl acetate	3.80	Incomplete Integration	DVW2	10/17/23 12:20
t-Butyl alcohol	4.11	Incomplete Integration	DVW2	10/17/23 12:20
n-Heptane	7.53	Incomplete Integration	DVW2	10/17/23 12:21
1,4-Dioxane	8.43	Incomplete Integration	DVW2	10/17/23 12:21

Lab Sample ID: IC 410-431955/19

Client Sample ID: _____

Date Analyzed: 10/17/23 09:43

Lab File ID: HO16X18.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.43	Incomplete Integration	DVW2	10/18/23 08:40

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Instrument ID: 19094

Analysis Batch Number: 431955

Lab Sample ID: ICV 410-431955/21

Client Sample ID: _____

Date Analyzed: 10/17/23 10:24

Lab File ID: H016X20.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.87	Incomplete Integration	DVW2	10/18/23 08:41
1,4-Dioxane	8.43	Incomplete Integration	DVW2	10/18/23 08:42

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Instrument ID: 19094

Analysis Batch Number: 478015

Lab Sample ID: CCVIS 410-478015/3

Client Sample ID: _____

Date Analyzed: 02/28/24 18:25

Lab File ID: HF28X02.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.83	Incomplete Integration	JS6E	02/28/24 18:51

Lab Sample ID: 410-161790-14

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

Date Analyzed: 02/28/24 20:48

Lab File ID: HF28X09.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)		Invalid Compound ID	FQ4L	02/29/24 11:25

Lab Sample ID: 410-161790-9

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

Date Analyzed: 02/29/24 00:31

Lab File ID: HF28X20.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.99	Incomplete Integration	FQ4L	02/29/24 13:02

Lab Sample ID: 410-161790-10

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

Date Analyzed: 02/29/24 00:51

Lab File ID: HF28X21.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	5.92	Incomplete Integration	FQ4L	02/29/24 13:43
Trichloroethene	7.99	Incomplete Integration	FQ4L	02/29/24 13:43

Lab Sample ID: 410-161790-11

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

Date Analyzed: 02/29/24 01:12

Lab File ID: HF28X22.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	FQ4L	02/29/24 13:44

8260D

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Instrument ID: 19094

Analysis Batch Number: 478015

Lab Sample ID: 410-161790-12

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

Date Analyzed: 02/29/24 01:32

Lab File ID: HF28X23.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	8.00	Incomplete Integration	FQ4L	02/29/24 13:56

Lab Sample ID: 410-161790-13

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

Date Analyzed: 02/29/24 02:33

Lab File ID: HF28X26.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	FQ4L	02/29/24 14:57

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_29_826ISS_00052	06/04/24	12/04/23	Methanol, Lot EG095	10 mL	MSV_8260_SS_01084	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
					MSV_Cus826_IS_00647	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
.MSV_8260_SS_01084	08/31/28		Restek, Lot A0201083		(Purchased Reagent)		t-Butyl alcohol-d10 (IS)	1250 ug/mL
							1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
.MSV_Cus826_IS_00647	10/31/26		Restek, Lot A0203141		(Purchased Reagent)		Toluene-d8 (Surr)	2500 ug/mL
							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_CCV_CYC_00007	01/19/24	07/19/23	50/50 MeOH/Water, Lot EG095	100 mL	MSV_VCYC_STK_00010	6.248 mL	Cyclohexanone	6249.87 ug/mL
.MSV_VCYC_STK_00010	01/19/24	07/19/23	50/50 MeOH/Water, Lot EG095	10 mL	MSV_CYC_00009	1.0003 g	Cyclohexanone	100030 ug/mL
..MSV_CYC_00009	06/30/27		Chem Service, Lot 14568900		(Purchased Reagent)		Cyclohexanone	1 g/g
MSV_CCV_V5ACE_00029	11/08/23	10/09/23	Methanol, Lot DZ644	10 mL	MSV_AcetatesV_00062	1 mL	Acetonitrile	5000 ug/mL
							Ethyl acetate	1000 ug/mL
							Vinyl acetate	1000 ug/mL
							Acetonitrile	50000 ug/mL
.MSV_AcetatesV_00062	11/30/24		Restek, Lot A0197847		(Purchased Reagent)		Ethyl acetate	10000 ug/mL
							Vinyl acetate	10000 ug/mL
MSV_CCV_V5ACE_00031	01/09/24	12/10/23	Methanol, Lot EG095	10 mL	MSV_AcetatesV_00066	1 mL	Acetonitrile	5000 ug/mL
							Ethyl acetate	1000 ug/mL
							Vinyl acetate	1000 ug/mL
							Acetonitrile	50000 ug/mL
.MSV_AcetatesV_00066	11/30/24		Restek, Lot A0197847		(Purchased Reagent)		Ethyl acetate	10000 ug/mL
							Vinyl acetate	10000 ug/mL
MSV_DME_00049	11/14/23		Restek, Lot A0190883		(Purchased Reagent)		Dimethyl ether	1000 ug/mL
MSV_DME_00050	01/09/24		Restek, Lot A0190883		(Purchased Reagent)		Dimethyl ether	1000 ug/mL
MSV_HP25_ISSS_00084	08/14/24	02/14/24	Methanol, Lot EG095	10 mL	MSV_Cus826_IS_00657	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
							1,4-Dichlorobenzene-d4	2500 ug/mL
.MSV_Cus826_IS_00657	10/31/26		Restek, Lot A0203141		(Purchased Reagent)		Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
							1,2-Dichloroethane-d4 (Surr)	250 ug/mL
MSV_HP25_ISSS_00084	08/14/24	02/14/24	Methanol, Lot EG095	10 mL	MSV_8260_SS_01147	1 mL		

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
 Testing, LLC

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.MSV_8260_SS_01147	10/31/28	Restek, Lot A0203162			(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_HP29_ISO_00004	06/04/24	12/04/23	Methanol, Lot EG095	10 mL	MSV_Cus826_IS_00647	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_Cus826_IS_00647	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_LCS_VOC#1_00134	11/14/23	10/15/23	Methanol, Lot EG095	25 mL	MSV_M_MIX1SEC_00161	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_00159	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00162	1 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-161790-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00161	06/30/26		Restek, Lot A0198667		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00159	04/30/26		Restek, Lot A0197573		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00162	04/30/25		Restek, Lot A0184721		(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_00143	01/09/24	12/10/23	Methanol, Lot EG095	25 mL	MSV_M_MIX1SEC_00172	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00171	1 mL	Carbon disulfide	40 ug/mL
					MSV_Q_Ketones_00168	1 mL	Methyl tert-butyl ether	40 ug/mL
							2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00172	06/30/26	Restek, Lot A0198667			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
						1,1,1-Trichloroethane	1000 ug/mL	
						1,1,2,2-Tetrachloroethane	1000 ug/mL	
						1,1,2-Trichloroethane	1000 ug/mL	
						1,1-Dichloroethane	1000 ug/mL	
						1,1-Dichloroethene	1000 ug/mL	
						1,2-Dibromoethane (EDB)	1000 ug/mL	
						1,2-Dichloroethane	1000 ug/mL	
						1,2-Dichloropropane	1000 ug/mL	
						Benzene	1000 ug/mL	
						Bromochloromethane	1000 ug/mL	
						Bromodichloromethane	1000 ug/mL	
						Bromoform	1000 ug/mL	
						Carbon tetrachloride	1000 ug/mL	
						Chlorobenzene	1000 ug/mL	
						Chloroform	1000 ug/mL	
						cis-1,2-Dichloroethene	1000 ug/mL	
						cis-1,3-Dichloropropene	1000 ug/mL	
						Dibromochloromethane	1000 ug/mL	
						Ethylbenzene	1000 ug/mL	
						Methylene Chloride	1000 ug/mL	
						Styrene	1000 ug/mL	
						Tetrachloroethene	1000 ug/mL	
						Toluene	1000 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00171	04/30/26		Restek, Lot A0197573		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00168	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_00155	03/28/24	02/27/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00186	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_00187	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00183	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_00186	06/30/26		Restek, Lot A0198667		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00187	04/30/26		Restek, Lot A0197573		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00183	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_LL_#1_826_00099	11/14/23	10/15/23	Methanol, Lot EG095	1 mL	MSV_CCV_VOC#1_00150	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00147	200 uL	Acrolein	2500.06 ug/mL
							2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					MSV_V_VOA2_00210	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
							1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
.MSV_CCV_VOC#1_00150	11/14/23	10/15/23	Methanol, Lot EG095	5 mL	MSV_MegaMIX#1_00146	1 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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00142	1 mL	1,1,2-Trichloro-1,2,2-trifluor oethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
 Testing, LLC

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
..MSV_MegaMIX#1_00146	11/14/23		Restek, Lot A0197556		(Purchased Reagent)		Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00142	11/14/23		Restek, Lot A0197578		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluor oethane	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00147	11/14/23	10/15/23	Methanol, Lot EG095	5 mL	MSV_CCV_ACR_00013	0.5 mL	Acrolein	12500.3 ug/mL
					MSV_V_Ketones_00143	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_00013	11/16/23	09/17/23	Methanol, Lot EG095	10 mL	MSV_VACR_STK_00035	9.299 mL	Acrolein	125003 ug/mL
...MSV_VACR_STK_00035	11/16/23	09/17/23	Methanol, Lot EG095	10 mL	MSV_ACROLEIN_00029	1.447 g	Acrolein	134426 ug/mL
...MSV_ACROLEIN_00029	06/30/24		Chem Service, Lot 14451400				Acrolein	0.929 g/g
..MSV_V_Ketones_00143	01/31/25		Restek, Lot A0193494				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_00210	11/14/23	10/15/23	Methanol, Lot EG095	5 mL	MSV_V#2B_00338	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_00338	05/31/25		Restek, Lot A0197599				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_00107	01/06/24	12/10/23	Methanol, Lot EG095	1 mL	MSV_CCV_VOC#1_00159	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00156	200 uL	Acrolein	2499.86 ug/mL
					MSV_CCV_VOC#3_00156	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_V_VOA2_00218	150 uL	1,4-Dioxane	2500 ug/mL
					MSV_V_VOA2_00218	150 uL	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_00159	01/09/24	12/10/23	Methanol, Lot EG095	5 mL	MSV_MegaMIX#1_00156	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	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-Dichloropropene	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00152	1 mL	1,1,2-Trichloro-1,2,2-trifluor oethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00156	01/09/24	Restek, Lot A0197556			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00152	01/09/24	Restek, Lot A0197578			(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
 Testing, LLC

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-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_00156	01/06/24	12/10/23	Methanol, Lot EG095	5 mL	MSV_CCV_ACR_00014	0.5 mL	Acrolein	12499.3 ug/mL
					MSV_V_Ketones_00152	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_00014	01/06/24	11/07/23	Methanol, Lot EG095	10 mL	MSV_VACR_STK_00036	9.184 mL	Acrolein	124993 ug/mL
...MSV_VACR_STK_00036	01/06/24	11/07/23	Methanol, Lot EG095	10 mL	MSV_ACROLEIN_00030	1.465 g	Acrolein	136099 ug/mL
....MSV_ACROLEIN_00030	06/30/24	Chem Service, Lot 14451400			(Purchased Reagent)		Acrolein	0.929 g/g
..MSV_V_Ketones_00152	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_00218	01/09/24	12/10/23	Methanol, Lot EG095	5 mL	MSV_V#2B_00354	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_00354	05/31/25	Restek, Lot A0197599			(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00118	03/19/24	02/26/24	Methanol, Lot EH235	1 mL	MSV_CCV_VOC#1_00171	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Carbon disulfide	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
					MSV_CCV_VOC#3_00168	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_00171	03/19/24	02/18/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00167	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Carbon disulfide	1000 ug/mL
..MSV_MegaMIX#1_00167	03/19/24		Restek, Lot A0197556		MSV_MegaMix#2_00163	1 mL	Methyl tert-butyl ether	1000 ug/mL
					(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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00163	03/19/24		Restek, Lot A0197578		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
.MSV_CCV_VOC#3_00168	03/26/24	02/26/24	Methanol, Lot EH471	5 mL	MSV_V_Ketones_00180	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_00180	01/31/26		Restek, Lot A0193494		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LL_#2_826_00108	10/31/23	10/15/23	Methanol, Lot EG095	1 mL	CCV_ETBR_00005	50 uL	Ethyl bromide	49.9548 ug/mL
					MSV_BCE_00062	25 uL	1-Bromo-2-chloroethane	50 ug/mL
					MSV_CCV_EE_00005	50 uL	Ethyl ether	50.0068 ug/mL
					MSV_V_PentaCL_00037	10 uL	Pentachloroethane	50 ug/mL
.CCV_ETBR_00005	11/15/23	05/16/23	Methanol, Lot EG095	10 mL	MSV_VETBR_STK_00014	0.228 mL	Ethyl bromide	999.096 ug/mL
..MSV_VETBR_STK_00014	11/15/23	05/16/23	Methanol, Lot EG095	10 mL	MSV_EtBr_00007	0.4382 g	Ethyl bromide	43820 ug/mL
...MSV_EtBr_00007	06/30/25		Chem Service, Lot 13345600		(Purchased Reagent)		Ethyl bromide	1 g/g
.MSV_BCE_00062	10/31/23		Restek, Lot A0197429		(Purchased Reagent)		1-Bromo-2-chloroethane	2000 ug/mL
.MSV_CCV_EE_00005	11/10/23	05/10/23	Methanol, Lot EG095	50 mL	MSV_EE_MISCSK_00012	1.686 mL	Ethyl ether	1000.14 ug/mL
..MSV_EE_MISCSK_00012	11/10/23	05/10/23	Methanol, Lot EG095	10 mL	MSV_EE_Neat_00009	0.2966 g	Ethyl ether	29660 ug/mL
...MSV_EE_Neat_00009	05/30/27		Chem Service, Lot 14084700		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00037	11/07/23		Restek, Lot A0184174		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_#2_826_00117	12/27/23	12/10/23	Methanol, Lot EG095	1 mL	CCV_ETBR_00006	50 uL	Ethyl bromide	50.0122 ug/mL
					MSV_BCE_00065	25 uL	1-Bromo-2-chloroethane	50 ug/mL
					MSV_CCV_EE_00006	50 uL	Ethyl ether	50.0069 ug/mL
					MSV_V_PentaCL_00040	10 uL	Pentachloroethane	50 ug/mL
.CCV_ETBR_00006	05/12/24	11/13/23	Methanol, Lot EG095	10 mL	MSV_VETBR_STK_00015	0.139 mL	Ethyl bromide	1000.24 ug/mL
..MSV_VETBR_STK_00015	05/12/24	11/13/23	Methanol, Lot EG095	10 mL	MSV_EtBr_00008	0.7196 g	Ethyl bromide	71960 ug/mL
...MSV_EtBr_00008	06/30/25		Chem Service, Lot 13345600		(Purchased Reagent)		Ethyl bromide	1 g/g
.MSV_BCE_00065	12/27/23		Restek, Lot A0201612		(Purchased Reagent)		1-Bromo-2-chloroethane	2000 ug/mL
.MSV_CCV_EE_00006	05/07/24	11/07/23	Methanol, Lot EG095	50 mL	MSV_EE_MISCSK_00013	1.579 mL	Ethyl ether	1000.14 ug/mL
..MSV_EE_MISCSK_00013	05/07/24	11/07/23	Methanol, Lot EG095	10 mL	MSV_EE_Neat_00010	0.3167 g	Ethyl ether	31670 ug/mL
...MSV_EE_Neat_00010	05/30/27		Chem Service, Lot 14084700		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00040	01/02/24		Restek, Lot A0184174		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_GAS826_00174	10/22/23	10/15/23	Methanol, Lot EG095	1 mL	MSV_CCV_GASES_00609	25 uL	1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL
							Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_CCV_GASES_00609	10/22/23		Restek, Lot A0197586		(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_00182	12/17/23	12/10/23	Methanol, Lot EG095	1 mL	MSV_CCV_GASES_00655	25 uL	1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL
							Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00655	12/17/23		Restek, Lot A0197586		(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_00195	03/01/24	02/25/24	Methanol, Lot EH235	1 mL	MSV_CCV_GASES_00713	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00713	03/01/24		Restek, Lot A0197586		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LLcentISS_00009	01/06/24	07/06/23	Methanol, Lot EG095	50 mL	MSV_8260_SS_00953	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
					MSV_8260_SS_00953	1 mL	4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					MSV_Cus826_IS_00582	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
					MSV_Cus826_IS_00582	1 mL	Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_8260_SS_00953	02/29/28	Restek, Lot A0195060			(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_00582	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_00010	01/06/24	10/17/23	Methanol, Lot EG095	50 mL	MSV_Cus826_IS_00582	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_00582	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_00012	08/01/24	02/01/24	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_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_QC_GAS524_00154	03/05/24	02/27/24	Methanol, Lot EH822	1 mL	MSV_QC_2K_GAS_00203	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00203	03/05/24	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_00164	10/22/23	10/15/23	Methanol, Lot EG095	1 mL	MSV_QC_2K_GAS_00182	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00182	10/22/23	Restek, Lot A0184924			(Purchased Reagent)		Bromomethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00173	12/17/23	12/10/23	Methanol, Lot EG095	1 mL	MSV_QC_2K_GAS_00150	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00150	12/17/23		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_00185	02/28/24	02/25/24	Methanol, Lot EH235	1 mL	MSV_QC_2K_GAS_00200	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00200	02/29/24		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_00012							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00010	0.096 mL	BFB	49.7971 ug/mL
.MSV_VBFB_STK_00010	12/13/23	06/13/23	Methanol, Lot EG095	10 mL	MSV_4BFB_NEAT_00010	1.2968 g	BFB	129680 ug/mL
..MSV_4BFB_NEAT_00010	05/31/25		Chem Service, Lot 13775500		(Purchased Reagent)		BFB	1 g/g
MSV_V_BFB_00013							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00010	0.019 mL	BFB	49.2784 ug/mL
.MSV_VBFB_STK_00010	12/13/23	06/13/23	Methanol, Lot EG095	10 mL	MSV_4BFB_NEAT_00010	1.2968 g	BFB	129680 ug/mL
..MSV_4BFB_NEAT_00010	05/31/25		Chem Service, Lot 13775500		(Purchased Reagent)		BFB	1 g/g
MSV_V_BFB_00016							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00011	0.098 mL	BFB	50.129 ug/mL
.MSV_VBFB_STK_00011	06/05/24	12/05/23	Methanol, Lot EG095	10 mL	MSV_4BFB_NEAT_00009	1.2788 g	BFB	127880 ug/mL
..MSV_4BFB_NEAT_00009	05/31/25		Chem Service, Lot 13775500		(Purchased Reagent)		BFB	1 g/g
MSV_V_SMRV4_00063	11/07/23	10/11/23	Methanol, Lot EG095	1 mL	MSV_CCV_2CEVE_00142	200 uL	2-Chloroethyl vinyl ether	200 ug/mL
					MSV_CCV_LKB_00007	400 uL	cis-1,4-Dichloro-2-butene	399.99 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-161790-1
Testing, LLC

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV CCV 2CEVE 00142	11/07/23	10/08/23	Methanol, Lot EG095	5 mL	MSV V SMFreon 00031	100 uL	Chlorodifluoromethane	200 ug/mL
..MSV V 2CLEVE 00147	04/30/26		Restek, Lot A0197472		MSV V 2CLEVE 00147	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
.MSV CCV LKB 00007	12/26/23	06/26/23	Methanol, Lot EG095	50 mL	(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
..MSV Vcl4d STK 00009	12/26/23	06/26/23	Methanol, Lot EG095	10 mL	MSV Vcl4d STK 00009	1.411 mL	cis-1,4-Dichloro-2-butene	999.976 ug/mL
...MSV cl4dcb Nt 00004	08/16/27		Aldrich, Lot SHBH4584V		MSV cl4dcb Nt 00004	0.373 g	cis-1,4-Dichloro-2-butene	35435 ug/mL
.MSV V SMFreon 00031	11/08/23		Restek, Lot A0184508		(Purchased Reagent)		cis-1,4-Dichloro-2-butene	0.95 g/g
MSV_V_SMRV4_00065	12/26/23	12/07/23	Methanol, Lot EG095	1 mL	(Purchased Reagent)		Chlorodifluoromethane	2000 ug/mL
					MSV CCV 2CEVE 00151	200 uL	2-Chloroethyl vinyl ether	200 ug/mL
					MSV CCV LKB 00007	400 uL	cis-1,4-Dichloro-2-butene	399.99 ug/mL
					MSV V SMFreon 00034	100 uL	Chlorodifluoromethane	200 ug/mL
.MSV CCV 2CEVE 00151	01/02/24	12/03/23	Methanol, Lot EG095	5 mL	MSV V 2CLEVE 00156	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV V 2CLEVE 00156	04/30/26		Restek, Lot A0197472		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
.MSV CCV LKB 00007	12/26/23	06/26/23	Methanol, Lot EG095	50 mL	MSV Vcl4d STK 00009	1.411 mL	cis-1,4-Dichloro-2-butene	999.976 ug/mL
..MSV Vcl4d STK 00009	12/26/23	06/26/23	Methanol, Lot EG095	10 mL	MSV cl4dcb Nt 00004	0.373 g	cis-1,4-Dichloro-2-butene	35435 ug/mL
...MSV cl4dcb Nt 00004	08/16/27		Aldrich, Lot SHBH4584V		(Purchased Reagent)		cis-1,4-Dichloro-2-butene	0.95 g/g
.MSV V SMFreon 00034	01/05/24		Restek, Lot A0184508		(Purchased Reagent)		Chlorodifluoromethane	2000 ug/mL

Reagent

MSV_8260_SS_01084



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30240 **Lot No.:** A0201083

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

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

Expiration Date : 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	Dibromofluoromethane	1868-53-7	022013	99%	2,511.4 µg/mL	+/- 141.0796
2	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	2,521.4 µg/mL	+/- 141.6413
3	Toluene-d8	2037-26-5	I-27008	99%	2,511.4 µg/mL	+/- 141.0796
4	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000194533	99%	2,521.2 µg/mL	+/- 141.6301

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

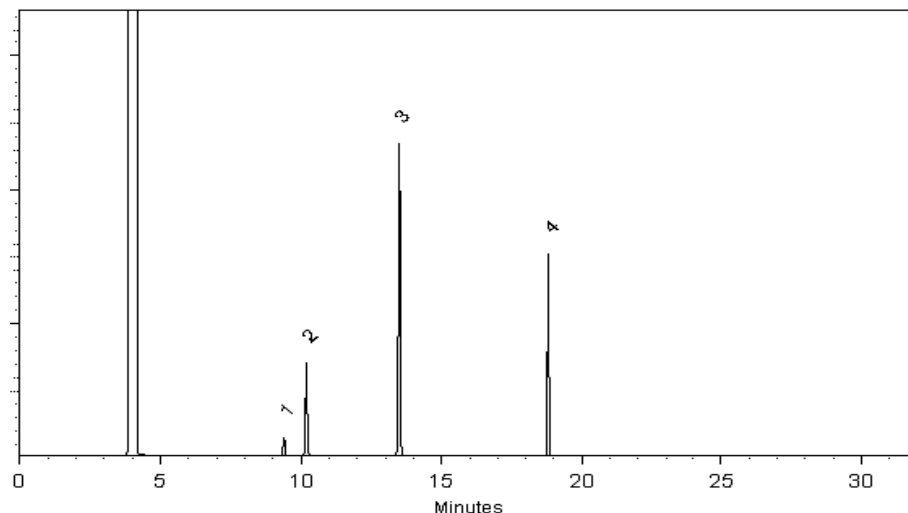
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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

Peter Robbins - Operations Technician I

Date Mixed: 16-Aug-2023

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 21-Aug-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_BCE_00062



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30469 **Lot No.:** A0197429
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 : April 30, 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%	2,014.0 µg/mL	+/- 113.1642

* 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:

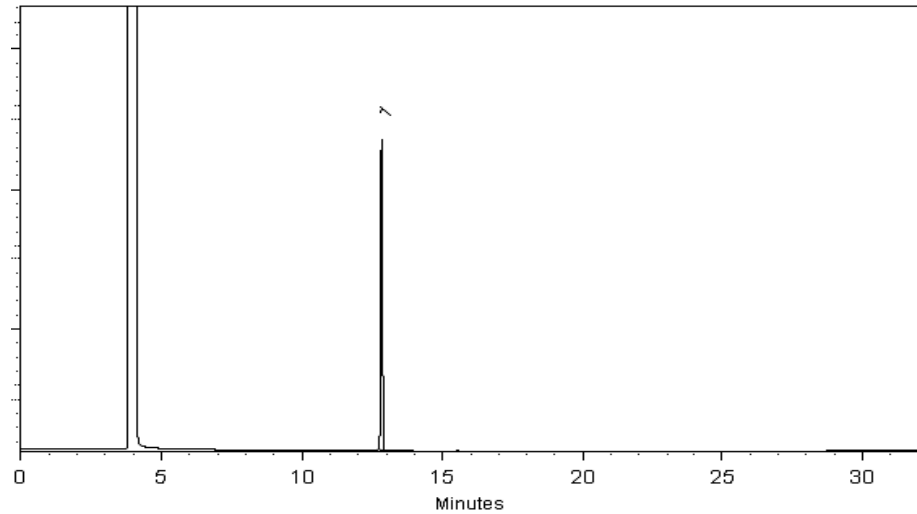
FID

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.

Nick Yaw - Operations Tech I

Date Mixed: 25-Apr-2023

Balance Serial # B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_BCE_00065



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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



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30469 **Lot No.:** A0201612
Description : 1-Bromo-2-chloroethane Standard
1-Bromo-2-Chloroethane Std, 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-2-chloroethane	107-04-0	BCCC1146	99%	2,004.0 µg/mL	+/- 112.6024

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

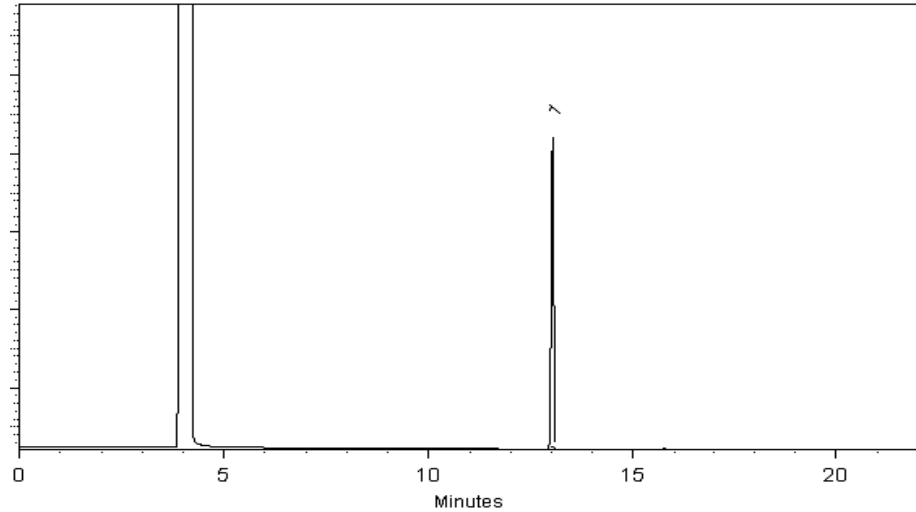
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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

Morgan Craighead - Mix Technician

Date Mixed: 31-Aug-2023

Balance Serial # 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Sep-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_c14dcb_Nt_00004

3050 Spruce Street, Saint Louis, MO 63103, USA

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

Certificate of Analysis

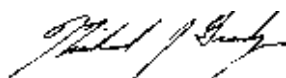
Product Name:

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

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



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



Michael Grady, Manager
Quality Control
Sheboygan Falls, WI US

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

Reagent

MSV_CCV_GASES_00609



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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.:** A0197586

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, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,004.0 µg/mL	+/- 113.0947
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,003.1 µg/mL	+/- 113.1749
3	Vinyl chloride	75-01-4	00015559	99%	2,001.3 µg/mL	+/- 112.7805
4	1,3-Butadiene	106-99-0	00015314	99%	2,002.1 µg/mL	+/- 112.9024
5	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,002.9 µg/mL	+/- 113.0693
6	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.6811
7	Dichlorofluoromethane (CFC-21)	75-43-4	14150400	90%	2,001.6 µg/mL	+/- 112.4412
8	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,020.0 µg/mL	+/- 113.4748
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	354-23-4	Q9B-64	99%	1,998.5 µg/mL	+/- 112.6823

* 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:

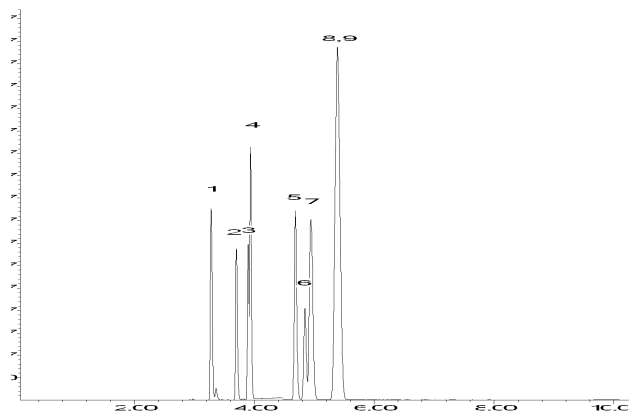
MSD

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: 01-May-2023

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_CCV_GASES_00655



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Catalog No. : 577488 **Lot No.:** A0197586

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, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,004.0 µg/mL	+/- 113.0947
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,003.1 µg/mL	+/- 113.1749
3	Vinyl chloride	75-01-4	00015559	99%	2,001.3 µg/mL	+/- 112.7805
4	1,3-Butadiene	106-99-0	00015314	99%	2,002.1 µg/mL	+/- 112.9024
5	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,002.9 µg/mL	+/- 113.0693
6	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.6811
7	Dichlorofluoromethane (CFC-21)	75-43-4	14150400	90%	2,001.6 µg/mL	+/- 112.4412
8	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,020.0 µg/mL	+/- 113.4748
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	354-23-4	Q9B-64	99%	1,998.5 µg/mL	+/- 112.6823

* 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:

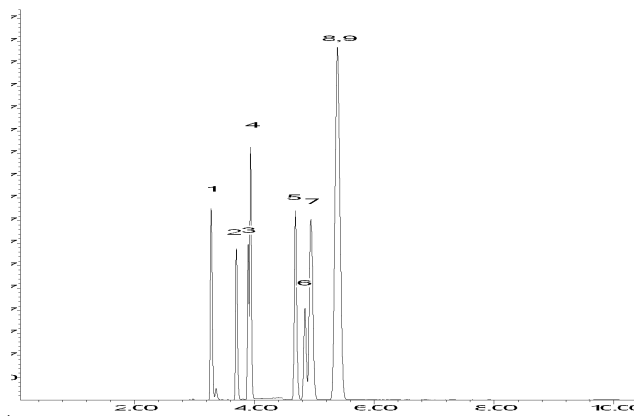
MSD

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: 01-May-2023

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_CCV_GASES_00713



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Catalog No. : 577488 **Lot No.:** A0197586

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, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,004.0 µg/mL	+/- 113.0947
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,003.1 µg/mL	+/- 113.1749
3	Vinyl chloride	75-01-4	00015559	99%	2,001.3 µg/mL	+/- 112.7805
4	1,3-Butadiene	106-99-0	00015314	99%	2,002.1 µg/mL	+/- 112.9024
5	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,002.9 µg/mL	+/- 113.0693
6	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.6811
7	Dichlorofluoromethane (CFC-21)	75-43-4	14150400	90%	2,001.6 µg/mL	+/- 112.4412
8	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,020.0 µg/mL	+/- 113.4748
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	354-23-4	Q9B-64	99%	1,998.5 µg/mL	+/- 112.6823

* 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:

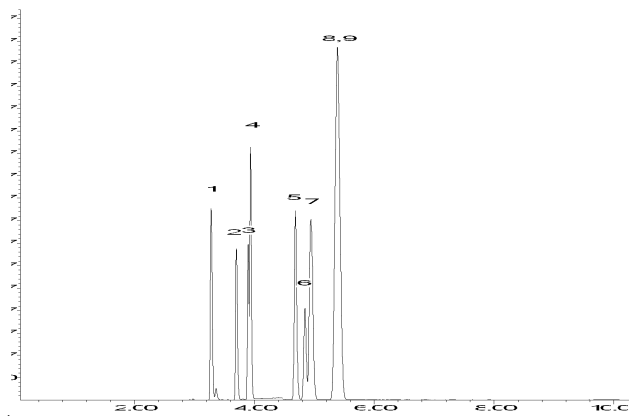
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



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Brittany Federinko - Operations Tech I

Date Mixed: 01-May-2023

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-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:

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

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

Manufacturing Notes:

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

Handling Notes:

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

MSV_Cus826_IS_00647



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Catalog No. : 558267 **Lot No.:** A0203141

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

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methyl-2-propanol-d10	53001-22-2	PR-29961	99%	12,504.0 µg/mL	+/- 155.5359
2	Fluorobenzene	462-06-6	BCBZ5549	99%	2,503.5 µg/mL	+/- 31.1565
3	Chlorobenzene-d5	3114-55-4	PR-29571	99%	2,502.0 µg/mL	+/- 31.1378
4	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,504.5 µg/mL	+/- 31.1689

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

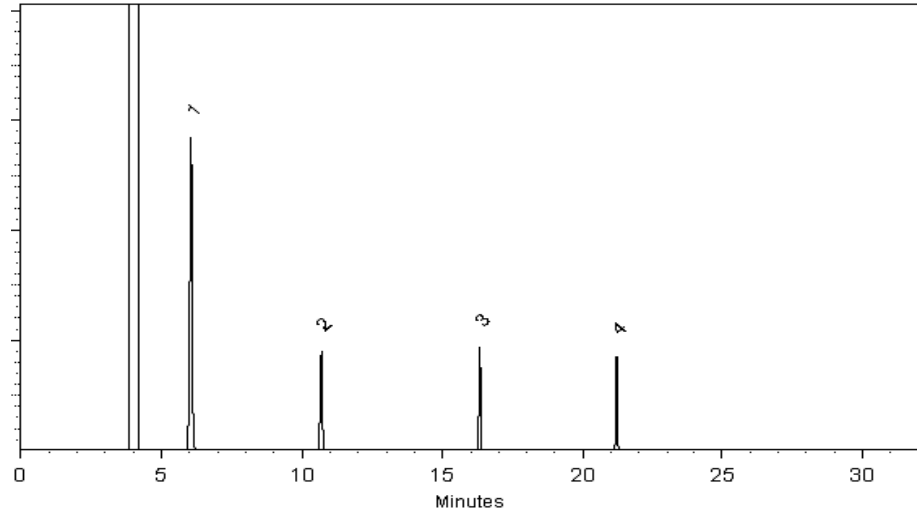
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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


Laith Clemente - Operations Technician I

Date Mixed: 13-Oct-2023

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 18-Oct-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_DME_00049



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom Dimethyl Ether Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

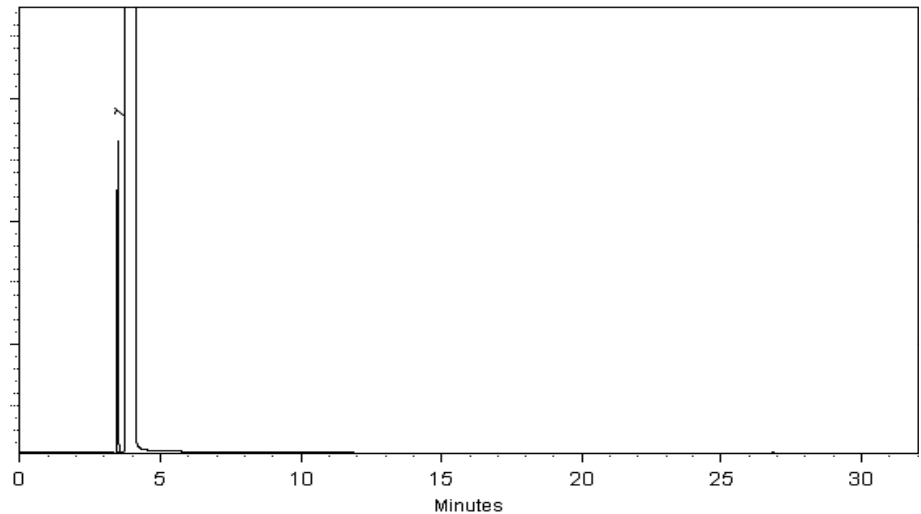
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 24-Oct-2022 Balance: B707717271

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Nov-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_DME_00050



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom Dimethyl Ether Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

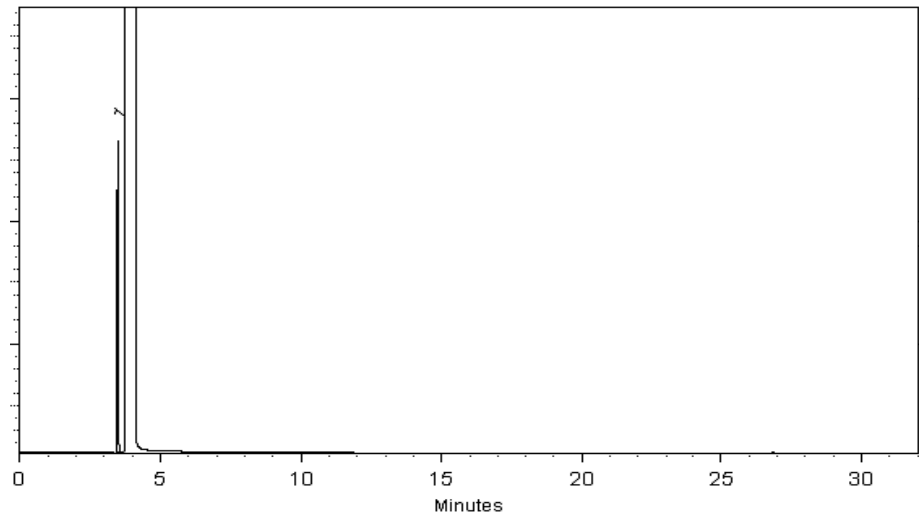
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 24-Oct-2022 Balance: B707717271

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Nov-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00146



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix® #1 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

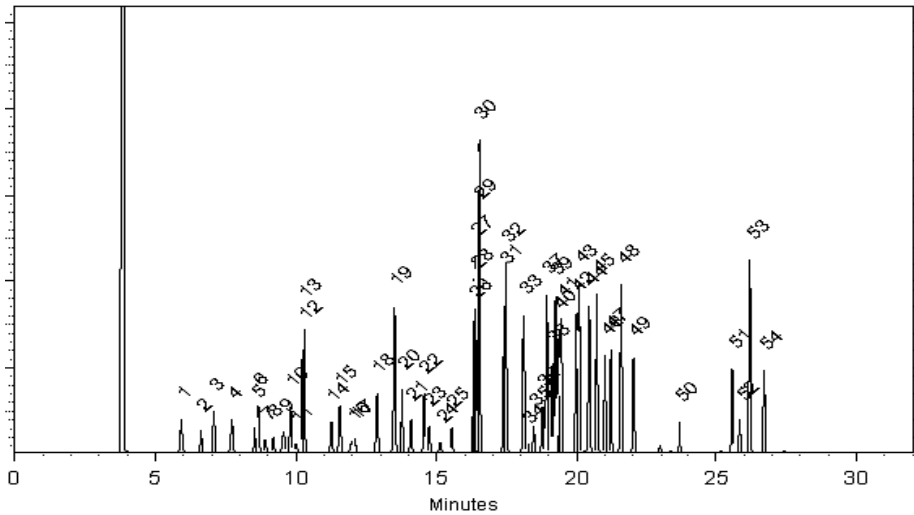
53	Naphthalene	91-20-3	MKCH0219	99%	5,029.9	µg/mL	+/- 283.3234
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,045.3	µg/mL	+/- 284.1908

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

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

Quality Confirmation Test

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



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

Nick Yaw
Nick Yaw - Operations Tech I

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

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 05-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00156



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix® #1 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

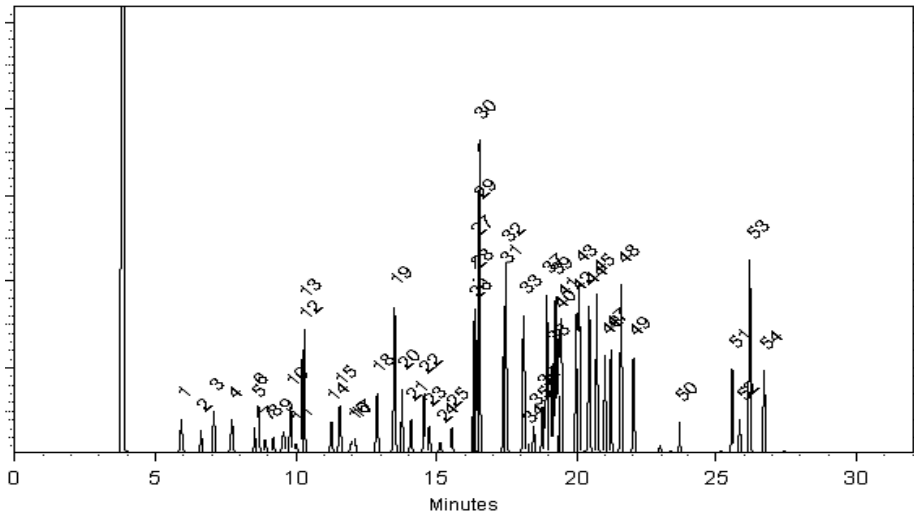
53	Naphthalene	91-20-3	MKCH0219	99%	5,029.9	µg/mL	+/- 283.3234
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,045.3	µg/mL	+/- 284.1908

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

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

Quality Confirmation Test

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



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

Nick Yaw
Nick Yaw - Operations Tech I

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

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 05-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00167



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix® #1 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

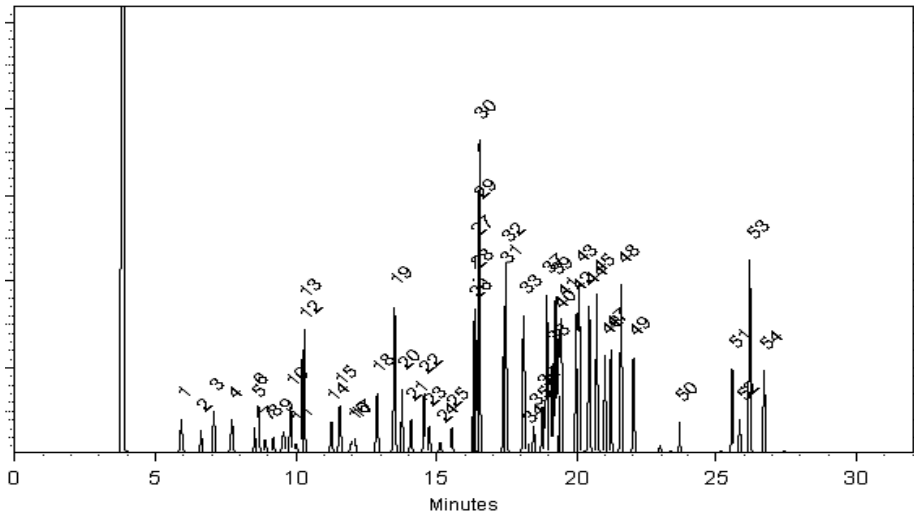
53	Naphthalene	91-20-3	MKCH0219	99%	5,029.9	µg/mL	+/- 283.3234
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,045.3	µg/mL	+/- 284.1908

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

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

Quality Confirmation Test

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



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

Nick Yaw
Nick Yaw - Operations Tech I

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

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 05-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00142



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix® #2 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

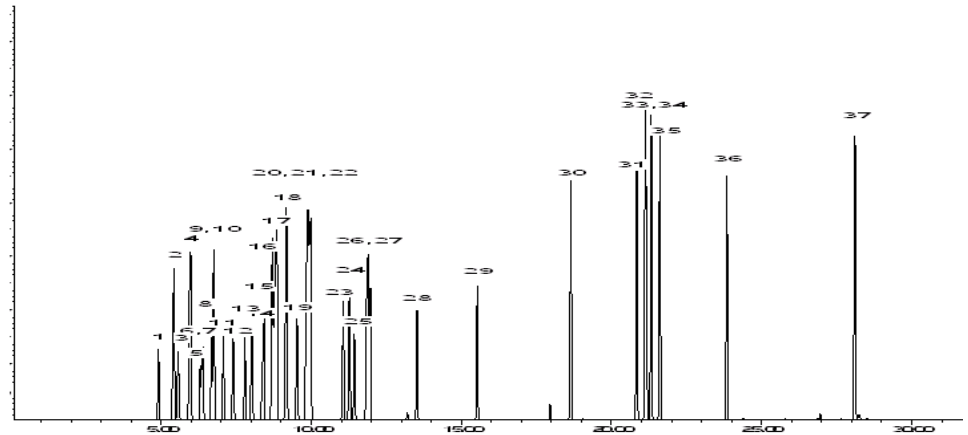
MSD

Split Vent:

25.0 ml/min.

Inj. Vol

1µl



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Apr-2023

Balance Serial # B251644995

Marlina Cowan
Marlina Cowan - Operations Tech II ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00152



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix® #2 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

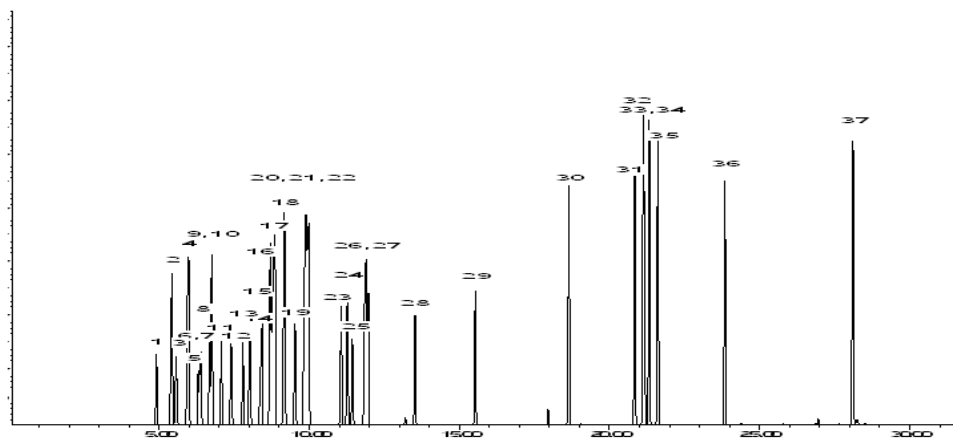
MSD

Split Vent:

25.0 ml/min.

Inj. Vol

1µl



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Apr-2023

Balance Serial # B251644995

Marlina Cowan
Marlina Cowan - Operations Tech II ARM QC

Date Passed: 02-May-2023

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

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Reagent

MSV_MegaMix#2_00163



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

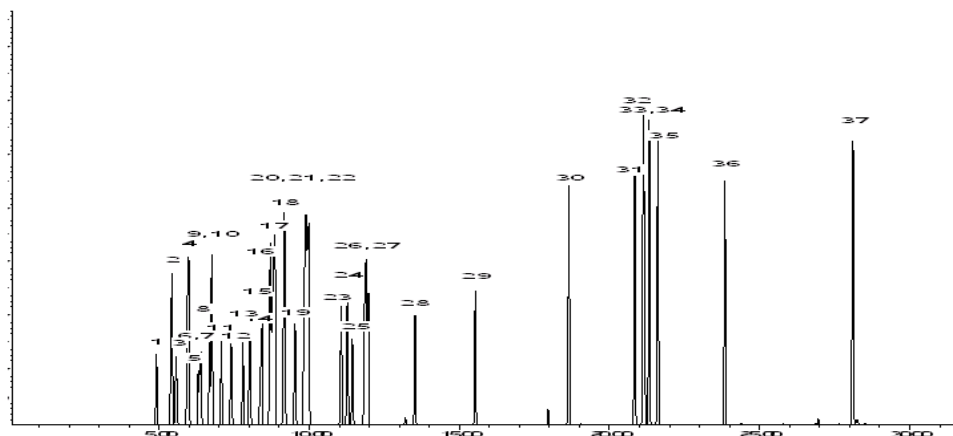
MSD

Split Vent:

25.0 ml/min.

Inj. Vol

1µl



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Apr-2023

Balance Serial # B251644995

Marlina Cowan
Marlina Cowan - Operations Tech II ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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Reagent

MSV_QC_2K_GAS_00150



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

8	Trichlorofluoromethane (CFC-11)			2,000.0	µg/mL	+/-	11.7371	µg/mL	Gravimetric
	CAS #	75-69-4.SEC	(Lot 00010739)			+/-	112.1494		Unstressed
	Purity	99%				+/-	114.7730		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		Unstressed
	Purity	99%				+/-	117.0060		Stressed

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

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

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Column:

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

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

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

Inj. Temp:

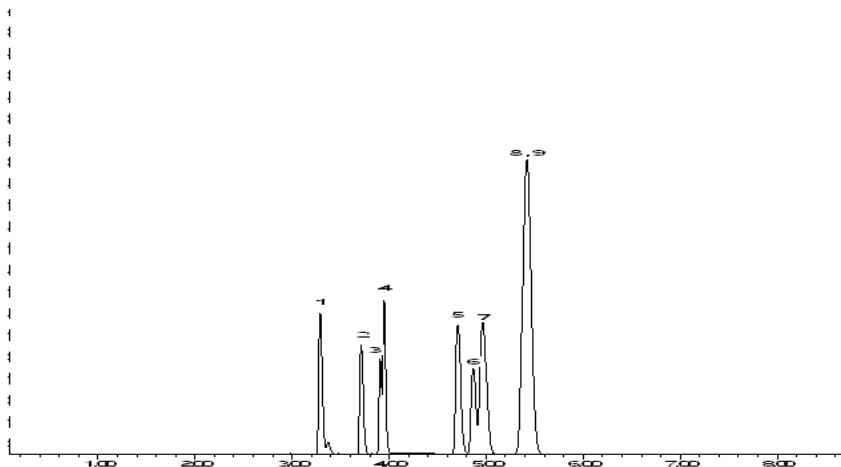
200°C

Det. Temp:

250°C

Det. Type:

MSD



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

Brandon Reish
 Brandon Reish - Mix Technician

Date Mixed: 05-May-2022

Balance: 1127510105

Marlina Cowan
 Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_QC_2K_GAS_00182



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Column:

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

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

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

Inj. Temp:

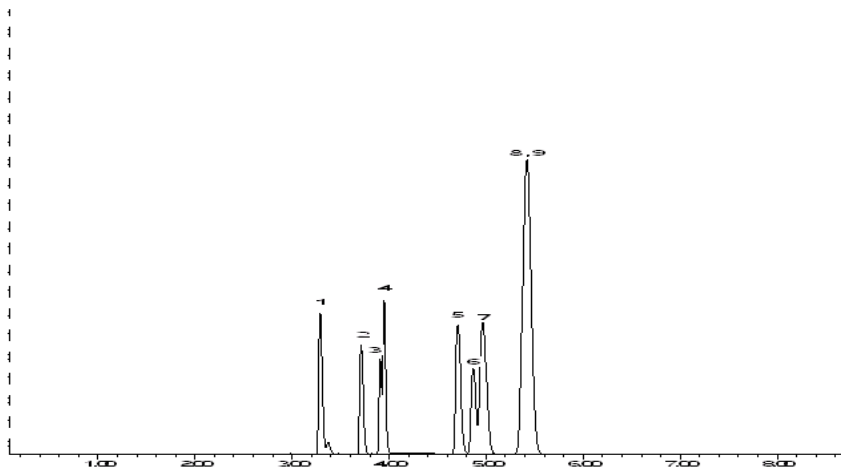
200°C

Det. Temp:

250°C

Det. Type:

MSD



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

Brandon Reish
Brandon Reish - Mix Technician

Date Mixed: 05-May-2022

Balance: 1127510105

Marlina Cowan
Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_QC_2K_GAS_00200



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

8	Trichlorofluoromethane (CFC-11)		2,000.0	µg/mL	+/-	11.7371	µg/mL	Gravimetric
	CAS #	75-69-4.SEC (Lot 00010739)				112.1494		
	Purity	99%				114.7730		
								Unstressed
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		
	Purity	99%				117.0060		
								Unstressed

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

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

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

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

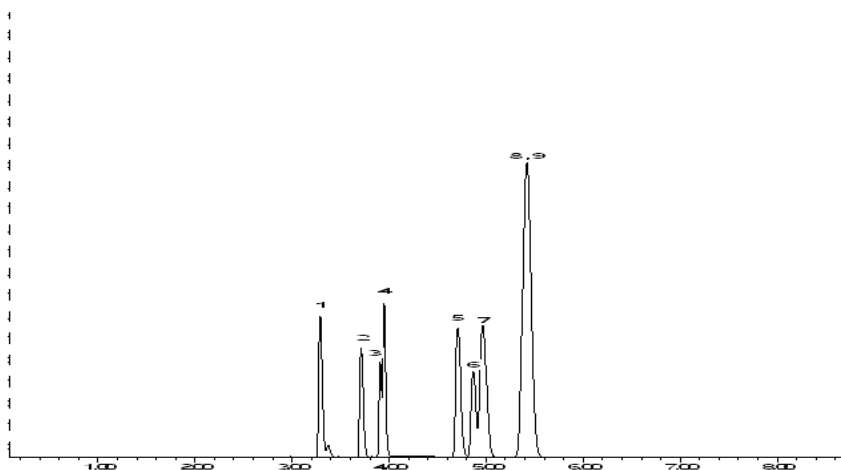
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Brandon Reish
Brandon Reish - Mix Technician

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

Marlina Cowan
Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_QC_2K_GAS_00203



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Column:

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

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

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

Inj. Temp:

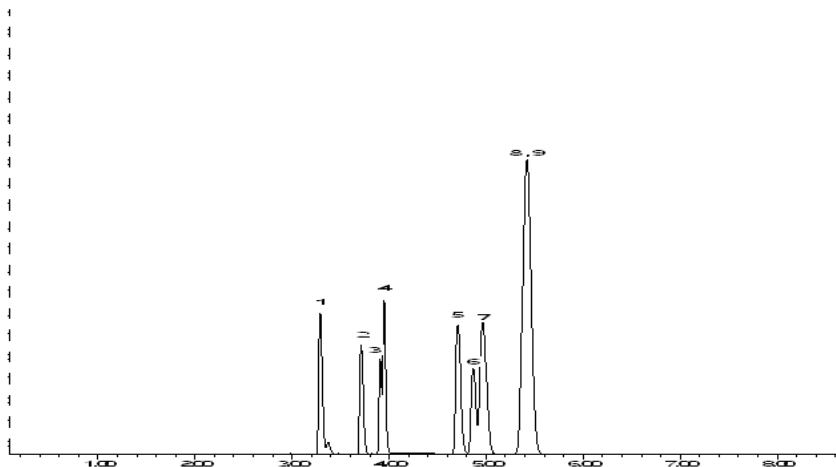
200°C

Det. Temp:

250°C

Det. Type:

MSD



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

Brandon Reish
Brandon Reish - Mix Technician

Date Mixed: 05-May-2022

Balance: 1127510105

Marlina Cowan
Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_PentaCL_00037



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom Pentachloroethane Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

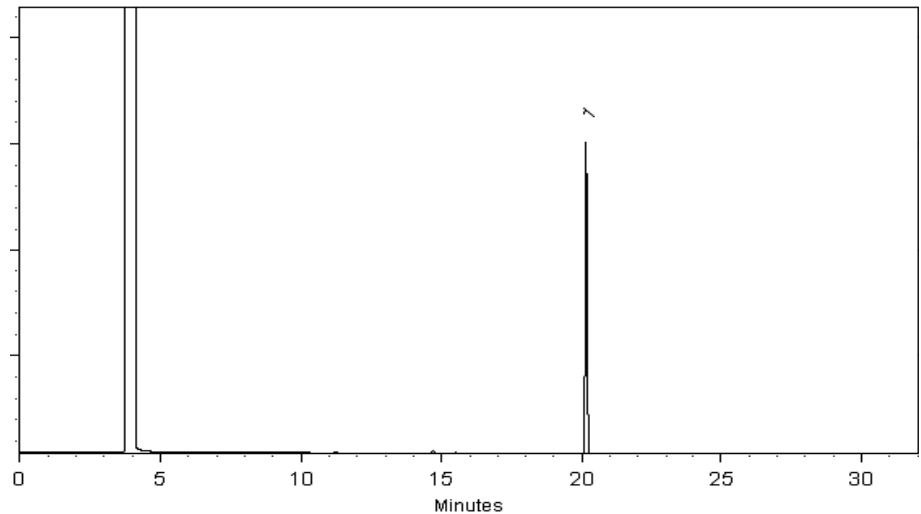
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Nick Yaw
Nick Yaw - Operations Tech I

Christie Mills
Christie Mills - Operations Technician II

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

Date Passed: 20-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_PentaCL_00040



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom Pentachloroethane Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

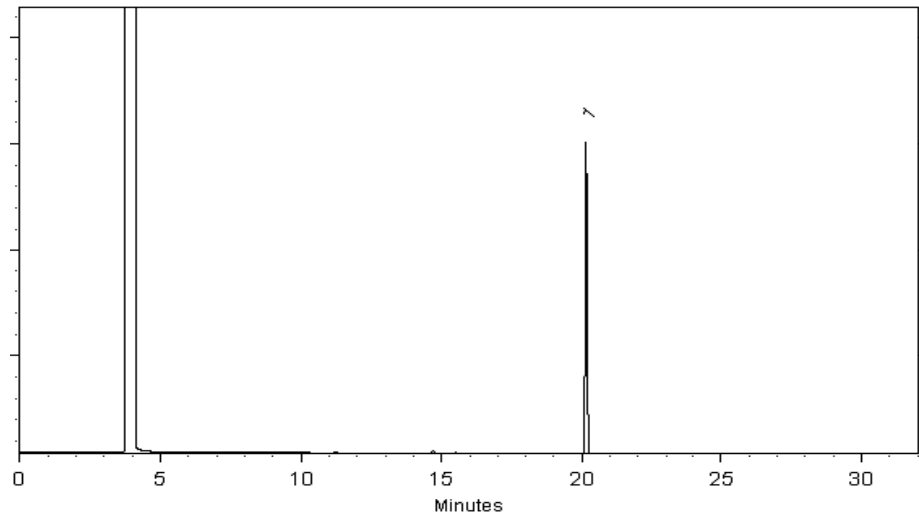
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Nick Yaw
Nick Yaw - Operations Tech I

Christie Mills
Christie Mills - Operations Technician II

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

Date Passed: 20-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_SMFreon_00031



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

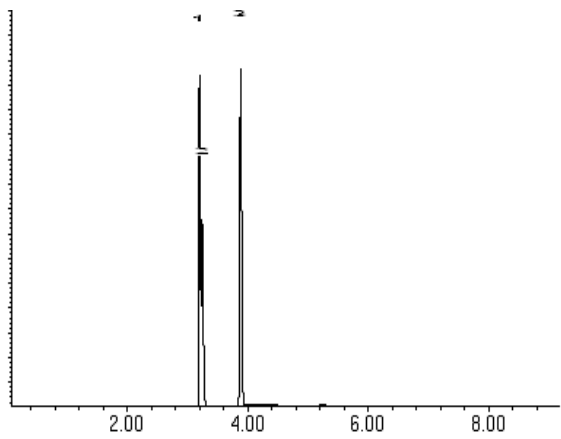
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 25-Apr-2022 Balance: B707717271

Christie Mills
Christie Mills - Operations Technician II

Date Passed: 02-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

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 - 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.

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0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

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Manufacturing Notes:

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Handling Notes:

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Reagent

MSV_V_SMFreon_00034



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Chlorotrifluoroethylene CAS # 79-38-9 (Lot 202600) Purity 99%	2,000.6 µg/mL	+/- 37.3988 µg/mL Gravimetric +/- 117.6695 µg/mL Unstressed +/- 120.1742 µg/mL Stressed
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Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
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Rtx-502.2 (cat.#10916)

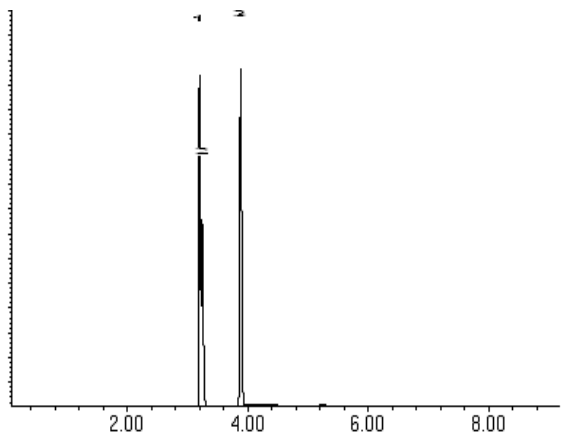
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 25-Apr-2022 Balance: B707717271

Christie Mills
Christie Mills - Operations Technician II

Date Passed: 02-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

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Manufacturing Notes:

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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.: 410-161790-1

SDG No.:

Matrix: Water

Level: Low

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

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
HD-COD-SW-6-0/1-0	410-161790-1	107	111	102	90
HD-COD-SW-7-0/1-0	410-161790-2	107	111	102	91
HD-COD-SW-8-0/1-0	410-161790-3	105	108	102	91
HD-COD-SW-9-0/1-0	410-161790-4	106	110	101	89
HD-COD-SW-13-0/1-0	410-161790-5	107	108	102	90
HD-COD-SW-15-0/1-0	410-161790-6	107	113	101	89
HD-COD-SW-16-0/1-0	410-161790-7	108	111	102	89
HD-COD-SW-17-0/1-0	410-161790-8	95	109	96	91
HD-COD-SW-17-0/1-0 DL	410-161790-8 DL	95	110	97	93
HD-COD-SW-26-0/1-0	410-161790-9	95	104	99	92
HD-COD-SW-27-0/1-0	410-161790-10	96	106	97	91
HD-COD-SW-28-0/1-0	410-161790-11	96	104	99	92
HD-COD-SW-29-0/1-0	410-161790-12	94	106	99	93
HD-QC1-0/1-1	410-161790-13	98	107	96	91
HD-QC1-0/1-1 DL	410-161790-13 DL	94	104	100	91
HD-QC1-0/1-2	410-161790-14	95	106	95	94
	MB 410-478015/7	94	103	94	94
	MB 410-478337/7	105	109	101	91
	LCS 410-478015/4	96	103	94	100
	LCS 410-478337/5	106	107	104	93
	LCSD 410-478015/5	95	101	96	101
HD-COD-SW-15-0/1-0 MS MS	410-161790-6 MS	106	109	103	92
HD-COD-SW-15-0/1-0 MSD MSD	410-161790-6 MSD	105	107	104	93

QC LIMITS

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

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

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: HF28X03.D

Lab ID: LCS 410-478015/4

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.95	99	71-134	
1,1,1-Trichloroethane	5.00	4.95	99	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.86	97	75-123	
1,1,2-Trichloroethane	5.00	5.24	105	80-120	
1,1-Dichloroethane	5.00	5.80	116	74-120	
1,1-Dichloroethene	5.00	5.04	101	80-131	
1,2-Dibromoethane (EDB)	5.00	5.02	100	80-120	
1,2-Dichloroethane	5.00	5.00	100	69-122	
1,2-Dichloropropane	5.00	6.14	123	80-120	*+
2-Butanone (MEK)	62.5	83.7	134	59-141	
2-Hexanone	62.5	78.0	125	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	75.7	121	55-140	
Acetone	62.5	62.3	100	60-146	
Benzene	5.00	5.84	117	80-120	
Bromochloromethane	5.00	5.78	116	80-120	
Bromodichloromethane	5.00	5.34	107	73-124	
Bromoform	5.00	4.63	93	49-144	
Bromomethane	5.00	5.16	103	60-136	
Carbon disulfide	5.00	5.27	105	67-130	
Carbon tetrachloride	5.00	5.30	106	64-141	
Chlorobenzene	5.00	5.24	105	80-120	
Chloroethane	5.00	5.72	114	63-120	
Chloroform	5.00	5.43	109	80-120	
Chloromethane	5.00	4.78	96	56-124	
cis-1,2-Dichloroethene	5.00	5.40	108	80-122	
cis-1,3-Dichloropropene	5.00	5.37	107	67-121	
Dibromochloromethane	5.00	4.97	99	64-138	
Ethylbenzene	5.00	5.09	102	80-120	
Methyl tert-butyl ether	5.00	5.16	103	69-120	
Methylene Chloride	5.00	5.58	112	80-120	
Styrene	5.00	5.03	101	80-120	
Tetrachloroethene	5.00	4.88	98	80-120	
Toluene	5.00	5.07	101	80-120	
trans-1,2-Dichloroethene	5.00	5.32	106	80-122	
trans-1,3-Dichloropropene	5.00	5.00	100	61-129	
Trichloroethene	5.00	5.42	108	80-120	
Vinyl chloride	5.00	4.89	98	60-125	
Xylenes, Total	15.0	15.3	102	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: CF29X04.D

Lab ID: LCS 410-478337/5

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.48	110	71-134	
1,1,1-Trichloroethane	5.00	5.17	103	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.45	109	75-123	
1,1,2-Trichloroethane	5.00	5.38	108	80-120	
1,1-Dichloroethane	5.00	5.16	103	74-120	
1,1-Dichloroethene	5.00	5.37	107	80-131	
1,2-Dibromoethane (EDB)	5.00	5.32	106	80-120	
1,2-Dichloroethane	5.00	4.95	99	69-122	
1,2-Dichloropropane	5.00	5.43	109	80-120	
2-Butanone (MEK)	62.5	50.0	80	59-141	
2-Hexanone	62.5	63.0	101	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	65.7	105	55-140	
Acetone	62.5	50.3	81	60-146	
Benzene	5.00	5.25	105	80-120	
Bromochloromethane	5.00	5.48	110	80-120	
Bromodichloromethane	5.00	5.52	110	73-124	
Bromoform	5.00	5.51	110	49-144	
Bromomethane	5.00	4.88	98	60-136	
Carbon disulfide	5.00	4.93	99	67-130	
Carbon tetrachloride	5.00	5.35	107	64-141	
Chlorobenzene	5.00	5.37	107	80-120	
Chloroethane	5.00	5.03	101	63-120	
Chloroform	5.00	5.06	101	80-120	
Chloromethane	5.00	4.80	96	56-124	
cis-1,2-Dichloroethene	5.00	5.33	107	80-122	
cis-1,3-Dichloropropene	5.00	5.05	101	67-121	
Dibromochloromethane	5.00	5.61	112	64-138	
Ethylbenzene	5.00	5.21	104	80-120	
Methyl tert-butyl ether	5.00	4.61	92	69-120	
Methylene Chloride	5.00	5.13	103	80-120	
Styrene	5.00	5.35	107	80-120	
Tetrachloroethene	5.00	5.29	106	80-120	
Toluene	5.00	5.19	104	80-120	
trans-1,2-Dichloroethene	5.00	5.20	104	80-122	
trans-1,3-Dichloropropene	5.00	5.16	103	61-129	
Trichloroethene	5.00	5.30	106	80-120	
Vinyl chloride	5.00	4.83	97	60-125	
Xylenes, Total	15.0	15.8	105	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: HF28X04.D

Lab ID: LCSD 410-478015/5

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	5.00	4.90	98	1	30	71-134	
1,1,1-Trichloroethane	5.00	4.84	97	2	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.87	97	0	30	75-123	
1,1,2-Trichloroethane	5.00	5.17	103	1	30	80-120	
1,1-Dichloroethane	5.00	5.57	111	4	30	74-120	
1,1-Dichloroethene	5.00	4.76	95	6	30	80-131	
1,2-Dibromoethane (EDB)	5.00	4.92	98	2	30	80-120	
1,2-Dichloroethane	5.00	4.84	97	3	30	69-122	
1,2-Dichloropropane	5.00	5.99	120	3	30	80-120	
2-Butanone (MEK)	62.5	83.5	134	0	30	59-141	
2-Hexanone	62.5	78.9	126	1	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	75.9	121	0	30	55-140	
Acetone	62.5	66.5	106	7	30	60-146	
Benzene	5.00	5.55	111	5	30	80-120	
Bromochloromethane	5.00	5.65	113	2	30	80-120	
Bromodichloromethane	5.00	5.15	103	4	30	73-124	
Bromoform	5.00	4.52	90	2	30	49-144	
Bromomethane	5.00	5.01	100	3	30	60-136	
Carbon disulfide	5.00	5.00	100	5	30	67-130	
Carbon tetrachloride	5.00	5.07	101	4	30	64-141	
Chlorobenzene	5.00	5.17	103	1	30	80-120	
Chloroethane	5.00	5.52	110	4	30	63-120	
Chloroform	5.00	5.24	105	4	30	80-120	
Chloromethane	5.00	4.45	89	7	30	56-124	
cis-1,2-Dichloroethene	5.00	5.27	105	2	30	80-122	
cis-1,3-Dichloropropene	5.00	5.25	105	2	30	67-121	
Dibromochloromethane	5.00	4.93	99	1	30	64-138	
Ethylbenzene	5.00	5.06	101	1	30	80-120	
Methyl tert-butyl ether	5.00	4.93	99	5	30	69-120	
Methylene Chloride	5.00	5.31	106	5	30	80-120	
Styrene	5.00	5.00	100	1	30	80-120	
Tetrachloroethene	5.00	4.84	97	1	30	80-120	
Toluene	5.00	5.07	101	0	30	80-120	
trans-1,2-Dichloroethene	5.00	5.03	101	6	30	80-122	
trans-1,3-Dichloropropene	5.00	5.01	100	0	30	61-129	
Trichloroethene	5.00	5.15	103	5	30	80-120	
Vinyl chloride	5.00	4.65	93	5	30	60-125	
Xylenes, Total	15.0	15.1	101	1	30	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.: 410-161790-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: CF29X15.D

Lab ID: 410-161790-6 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	5.27	105	71-134	
1,1,1-Trichloroethane	5.00	0.31 J	5.69	107	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	4.89	98	75-123	
1,1,2-Trichloroethane	5.00	ND	5.05	101	80-120	
1,1-Dichloroethane	5.00	0.12 J	5.44	106	74-120	
1,1-Dichloroethene	5.00	0.20 J	5.85	113	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	4.97	99	80-120	
1,2-Dichloroethane	5.00	ND	4.84	97	69-122	
1,2-Dichloropropane	5.00	ND	5.26	105	80-120	
2-Butanone (MEK)	62.6	ND	65.2	104	59-141	
2-Hexanone	62.6	ND	72.3	116	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	ND	71.6	114	55-140	
Acetone	62.6	ND	68.5	109	60-146	
Benzene	5.00	ND	5.32	106	80-120	
Bromochloromethane	5.00	ND	5.52	110	80-120	
Bromodichloromethane	5.00	ND	5.22	104	73-124	
Bromoform	5.00	ND	5.05	101	49-144	
Bromomethane	5.00	ND	5.09	102	60-136	
Carbon disulfide	5.00	ND	5.29	106	67-130	
Carbon tetrachloride	5.00	ND	5.61	112	64-141	
Chlorobenzene	5.00	ND	5.41	108	80-120	
Chloroethane	5.00	ND	5.39	108	63-120	
Chloroform	5.00	0.21 J	5.25	101	80-120	
Chloromethane	5.00	ND	4.97	99	80-120	
cis-1,2-Dichloroethene	5.00	1.6	7.06	108	80-122	
cis-1,3-Dichloropropene	5.00	ND	4.72	94	67-121	
Dibromochloromethane	5.00	ND	5.27	105	64-138	
Ethylbenzene	5.00	ND	5.31	106	80-120	
Methyl tert-butyl ether	5.00	ND	4.54	91	69-120	
Methylene Chloride	5.00	ND	5.29	106	80-120	
Styrene	5.00	ND	5.27	105	80-120	
Tetrachloroethene	5.00	6.5	12.0	109	80-120	
Toluene	5.00	ND	5.29	106	80-120	
trans-1,2-Dichloroethene	5.00	ND	5.40	108	80-122	
trans-1,3-Dichloropropene	5.00	ND	4.73	94	61-129	
Trichloroethene	5.00	1.6	6.95	108	80-120	
Vinyl chloride	5.00	ND	5.23	104	60-125	
Xylenes, Total	15.0	ND	15.9	106	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.: 410-161790-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: CF29X16.D

Lab ID: 410-161790-6 MSD

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

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	5.00	5.70	114	8	30	71-134	
1,1,1-Trichloroethane	5.00	6.05	115	6	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.21	104	6	30	75-123	
1,1,2-Trichloroethane	5.00	5.39	108	6	30	80-120	
1,1-Dichloroethane	5.00	5.82	114	7	30	74-120	
1,1-Dichloroethene	5.00	6.13	119	5	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.22	104	5	30	80-120	
1,2-Dichloroethane	5.00	5.20	104	7	30	69-122	
1,2-Dichloropropane	5.00	5.55	111	5	30	80-120	
2-Butanone (MEK)	62.6	66.0	105	1	30	59-141	
2-Hexanone	62.6	72.6	116	0	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	71.1	114	1	30	55-140	
Acetone	62.6	70.8	113	3	30	60-146	
Benzene	5.00	5.61	112	5	30	80-120	
Bromochloromethane	5.00	5.81	116	5	30	80-120	
Bromodichloromethane	5.00	5.49	110	5	30	73-124	
Bromoform	5.00	5.35	107	6	30	49-144	
Bromomethane	5.00	5.61	112	10	30	60-136	
Carbon disulfide	5.00	5.57	111	5	30	67-130	
Carbon tetrachloride	5.00	5.94	119	6	30	64-141	
Chlorobenzene	5.00	5.72	114	6	30	80-120	
Chloroethane	5.00	5.83	116	8	30	63-120	
Chloroform	5.00	5.52	106	5	30	80-120	
Chloromethane	5.00	5.27	105	6	30	80-120	
cis-1,2-Dichloroethene	5.00	7.38	115	4	30	80-122	
cis-1,3-Dichloropropene	5.00	5.07	101	7	30	67-121	
Dibromochloromethane	5.00	5.71	114	8	30	64-138	
Ethylbenzene	5.00	5.71	114	7	30	80-120	
Methyl tert-butyl ether	5.00	4.80	96	6	30	69-120	
Methylene Chloride	5.00	5.58	112	5	30	80-120	
Styrene	5.00	5.58	111	6	30	80-120	
Tetrachloroethene	5.00	12.6	121	5	30	80-120	FH
Toluene	5.00	5.69	114	7	30	80-120	
trans-1,2-Dichloroethene	5.00	5.73	114	6	30	80-122	
trans-1,3-Dichloropropene	5.00	5.10	102	8	30	61-129	
Trichloroethene	5.00	7.31	115	5	30	80-120	
Vinyl chloride	5.00	5.82	116	11	30	60-125	
Xylenes, Total	15.0	17.0	113	7	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.: 410-161790-1

SDG No.:

Lab File ID: HF28X06.D

Lab Sample ID: MB 410-478015/7

Matrix: Water

Heated Purge: (Y/N) N

Instrument ID: 19094

Date Analyzed: 02/28/2024 19:47

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 410-478015/4	HF28X03.D	02/28/2024 18:46
	LCSD 410-478015/5	HF28X04.D	02/28/2024 19:06
HD-QC1-0/1-2	410-161790-14	HF28X09.D	02/28/2024 20:48
HD-COD-SW-26-0/1-0	410-161790-9	HF28X20.D	02/29/2024 00:31
HD-COD-SW-27-0/1-0	410-161790-10	HF28X21.D	02/29/2024 00:51
HD-COD-SW-28-0/1-0	410-161790-11	HF28X22.D	02/29/2024 01:12
HD-COD-SW-29-0/1-0	410-161790-12	HF28X23.D	02/29/2024 01:32
HD-COD-SW-17-0/1-0	410-161790-8	HF28X24.D	02/29/2024 01:52
HD-COD-SW-17-0/1-0 DL	410-161790-8 DL	HF28X25.D	02/29/2024 02:12
HD-QC1-0/1-1	410-161790-13	HF28X26.D	02/29/2024 02:33
HD-QC1-0/1-1 DL	410-161790-13 DL	HF28X27.D	02/29/2024 02:53

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Lab File ID: CF29X06.D

Lab Sample ID: MB 410-478337/7

Matrix: Water

Heated Purge: (Y/N) N

Instrument ID: 10193

Date Analyzed: 02/29/2024 14:20

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 410-478337/5	CF29X04.D	02/29/2024 13:35
HD-COD-SW-6-0/1-0	410-161790-1	CF29X09.D	02/29/2024 15:27
HD-COD-SW-7-0/1-0	410-161790-2	CF29X10.D	02/29/2024 15:49
HD-COD-SW-8-0/1-0	410-161790-3	CF29X11.D	02/29/2024 16:11
HD-COD-SW-9-0/1-0	410-161790-4	CF29X12.D	02/29/2024 16:33
HD-COD-SW-13-0/1-0	410-161790-5	CF29X13.D	02/29/2024 16:55
HD-COD-SW-15-0/1-0	410-161790-6	CF29X14.D	02/29/2024 17:17
HD-COD-SW-15-0/1-0 MS MS	410-161790-6 MS	CF29X15.D	02/29/2024 17:40
HD-COD-SW-15-0/1-0 MSD MSD	410-161790-6 MSD	CF29X16.D	02/29/2024 18:02
HD-COD-SW-16-0/1-0	410-161790-7	CF29X17.D	02/29/2024 18:24

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

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Lab File ID: CD11T01.D

BFB Injection Date: 12/11/2023

Instrument ID: 10193

BFB Injection Time: 17:07

Analysis Batch No.: 452392

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.1
75	30.0 - 60.0 % of mass 95	47.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	0.8 (0.9) 1
174	Greater than 50% of mass 95	87.2
175	5.0 - 9.0 % of mass 174	6.5 (7.4) 1
176	95.0 - 101.0 % of mass 174	85.1 (97.6) 1
177	5.0 - 9.0 % of mass 176	5.7 (6.7) 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 410-452392/3	copy_CD11X02.	12/11/2023	17:46
	IC 410-452392/4	CD11X03.D	12/11/2023	18:08
	IC 410-452392/5	CD11X04.D	12/11/2023	18:30
	IC 410-452392/6	CD11X05.D	12/11/2023	18:52
	IC 410-452392/7	CD11X06.D	12/11/2023	19:14
	IC 410-452392/8	CD11X07.D	12/11/2023	19:37
	IC 410-452392/9	CD11X08.D	12/11/2023	19:59
	IC 410-452392/13	CD11X12.D	12/11/2023	21:27
	IC 410-452392/14	CD11X13.D	12/11/2023	21:50
	IC 410-452392/15	CD11X14.D	12/11/2023	22:12
	IC 410-452392/16	CD11X15.D	12/11/2023	22:34
	IC 410-452392/17	CD11X16.D	12/11/2023	22:57
	ICIS 410-452392/18	CD11X17.D	12/11/2023	23:19
	IC 410-452392/19	CD11X18.D	12/11/2023	23:41
	ICV 410-452392/21	CD11X20.D	12/12/2023	0:25

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

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Lab File ID: CF29T02.D

BFB Injection Date: 02/29/2024

Instrument ID: 10193

BFB Injection Time: 12:18

Analysis Batch No.: 478337

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.9
75	30.0 - 60.0 % of mass 95	45.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.3
173	Less than 2.0 % of mass 174	0.8 (0.9) 1
174	Greater than 50% of mass 95	90.1
175	5.0 - 9.0 % of mass 174	6.8 (7.5) 1
176	95.0 - 101.0 % of mass 174	87.9 (97.6) 1
177	5.0 - 9.0 % of mass 176	5.7 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-478337/3	CF29X02.D	02/29/2024	12:51
	LCS 410-478337/5	CF29X04.D	02/29/2024	13:35
	MB 410-478337/7	CF29X06.D	02/29/2024	14:20
HD-COD-SW-6-0/1-0	410-161790-1	CF29X09.D	02/29/2024	15:27
HD-COD-SW-7-0/1-0	410-161790-2	CF29X10.D	02/29/2024	15:49
HD-COD-SW-8-0/1-0	410-161790-3	CF29X11.D	02/29/2024	16:11
HD-COD-SW-9-0/1-0	410-161790-4	CF29X12.D	02/29/2024	16:33
HD-COD-SW-13-0/1-0	410-161790-5	CF29X13.D	02/29/2024	16:55
HD-COD-SW-15-0/1-0	410-161790-6	CF29X14.D	02/29/2024	17:17
HD-COD-SW-15-0/1-0 MS MS	410-161790-6 MS	CF29X15.D	02/29/2024	17:40
HD-COD-SW-15-0/1-0 MSD MSD	410-161790-6 MSD	CF29X16.D	02/29/2024	18:02
HD-COD-SW-16-0/1-0	410-161790-7	CF29X17.D	02/29/2024	18:24

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

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Lab File ID: HO16T01.D

BFB Injection Date: 10/17/2023

Instrument ID: 19094

BFB Injection Time: 03:41

Analysis Batch No.: 431955

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.1
75	30.0 - 60.0 % of mass 95	49.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.3
173	Less than 2.0 % of mass 174	0.8 (0.9) 1
174	Greater than 50% of mass 95	87.6
175	5.0 - 9.0 % of mass 174	6.5 (7.4) 1
176	95.0 - 101.0 % of mass 174	86.7 (99.0) 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 410-431955/3	HO16X02.D	10/17/2023	4:22
	IC 410-431955/4	HO16X03.D	10/17/2023	4:42
	IC 410-431955/5	HO16X04.D	10/17/2023	5:02
	IC 410-431955/6	HO16X05.D	10/17/2023	5:22
	IC 410-431955/7	HO16X06.D	10/17/2023	5:42
	IC 410-431955/8	HO16X07.D	10/17/2023	6:02
	IC 410-431955/9	HO16X08.D	10/17/2023	6:22
	IC 410-431955/13	HO16X12.D	10/17/2023	7:43
	IC 410-431955/14	HO16X13.D	10/17/2023	8:03
	IC 410-431955/15	HO16X14.D	10/17/2023	8:23
	IC 410-431955/16	HO16X15.D	10/17/2023	8:43
	IC 410-431955/17	HO16X16.D	10/17/2023	9:03
	ICIS 410-431955/18	HO16X17.D	10/17/2023	9:23
	IC 410-431955/19	HO16X18.D	10/17/2023	9:43
	ICV 410-431955/21	HO16X20.D	10/17/2023	10:24

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

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Lab File ID: HF28T01.D

BFB Injection Date: 02/28/2024

Instrument ID: 19094

BFB Injection Time: 17:52

Analysis Batch No.: 478015

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	47.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	85.3
175	5.0 - 9.0 % of mass 174	6.7 (7.9) 1
176	95.0 - 101.0 % of mass 174	82.8 (97.0) 1
177	5.0 - 9.0 % of mass 176	5.6 (6.7) 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 410-478015/3	HF28X02.D	02/28/2024	18:25
	LCS 410-478015/4	HF28X03.D	02/28/2024	18:46
	LCSD 410-478015/5	HF28X04.D	02/28/2024	19:06
	MB 410-478015/7	HF28X06.D	02/28/2024	19:47
HD-QC1-0/1-2	410-161790-14	HF28X09.D	02/28/2024	20:48
HD-COD-SW-26-0/1-0	410-161790-9	HF28X20.D	02/29/2024	0:31
HD-COD-SW-27-0/1-0	410-161790-10	HF28X21.D	02/29/2024	0:51
HD-COD-SW-28-0/1-0	410-161790-11	HF28X22.D	02/29/2024	1:12
HD-COD-SW-29-0/1-0	410-161790-12	HF28X23.D	02/29/2024	1:32
HD-COD-SW-17-0/1-0	410-161790-8	HF28X24.D	02/29/2024	1:52
HD-COD-SW-17-0/1-0 DL	410-161790-8 DL	HF28X25.D	02/29/2024	2:12
HD-QC1-0/1-1	410-161790-13	HF28X26.D	02/29/2024	2:33
HD-QC1-0/1-1 DL	410-161790-13 DL	HF28X27.D	02/29/2024	2:53

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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1
Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-478337/3 Date Analyzed: 02/29/2024 12:51

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

Lab File ID (Standard): CF29X02.D Heated Purge: (Y/N) N

Calibration ID: 56725

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		146313	3.85	2307944	7.33	1787724	10.94
UPPER LIMIT		292626	4.35	4615888	7.83	3575448	11.44
LOWER LIMIT		73157	3.35	1153972	6.83	893862	10.44
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-478337/5		172674	3.84	2252738	7.33	1804331	10.94
MB 410-478337/7		170836	3.85	2262943	7.33	1795683	10.94
410-161790-1	HD-COD-SW-6-0/1-0	166067	3.86	2205395	7.34	1745409	10.94
410-161790-2	HD-COD-SW-7-0/1-0	158641	3.84	2127336	7.33	1708243	10.94
410-161790-3	HD-COD-SW-8-0/1-0	156305	3.85	2165410	7.33	1710192	10.94
410-161790-4	HD-COD-SW-9-0/1-0	161768	3.84	2153953	7.33	1719489	10.94
410-161790-5	HD-COD-SW-13-0/1-0	157145	3.84	2092967	7.34	1658289	10.94
410-161790-6	HD-COD-SW-15-0/1-0	127025	3.84	2103917	7.33	1672010	10.94
410-161790-6 MS	HD-COD-SW-15-0/1-0 MS MS	125958	3.84	2206676	7.33	1740883	10.94
410-161790-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	128835	3.84	2168389	7.33	1689962	10.94
410-161790-7	HD-COD-SW-16-0/1-0	159306	3.85	2141921	7.33	1700466	10.94

TBAd10 = t-Butyl alcohol-d10 (IS)

FB = Fluorobenzene (IS)

CBZd5 = Chlorobenzene-d5 (IS)

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII

Job No.: 410-161790-1

Environment Testing, LLC

Date Analyzed: 02/29/2024 12:51

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

Heated Purge: (Y/N) N

56725

DCBd4

```
Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT
# Column used to flag values outside QC limits
```

FORM VIII

Job No.: 410-161790-1

Date Analyzed: 10/17/2023 09:23

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

Heated Purge: (Y/N) N

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		83963	4.00	1790766	7.51	1358954	11.05
UPPER LIMIT		167926	4.50	3581532	8.01	2717908	11.55
LOWER LIMIT		41982	3.50	895383	7.01	679477	10.55
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-431955/21		81596	3.99	1813311	7.51	1377945	11.05
CCVIS 410-478015/3		85672	4.04	1768073	7.50	1512425	11.01

TBAd10 = t-Butyl alcohol-d10 (IS)

FB = Fluorobenzene (IS)

CBZd5 = Chlorobenzene-d5 (IS)

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

RT Limit = ± 0.5 minutes of internal standard RT

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


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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1
Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-478015/3 Date Analyzed: 02/28/2024 18:25

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

Lab File ID (Standard): HF28X02.D Heated Purge: (Y/N) N

Calibration ID: 54851

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		85672	4.04	1768073	7.50	1512425	11.01
UPPER LIMIT		171344	4.54	3536146	8.00	3024850	11.51
LOWER LIMIT		42836	3.54	884037	7.00	756213	10.51
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-478015/4		81030	4.00	1845551	7.51	1562691	11.01
LCSD 410-478015/5		79735	4.02	1883713	7.51	1561481	11.01
MB 410-478015/7		72068	4.03	1804134	7.51	1492327	11.01
410-161790-14	HD-QC1-0/1-2	85494	4.03	1826285	7.51	1490925	11.01
410-161790-9	HD-COD-SW-26-0/1-0	87427	4.06	1849840	7.51	1436853	11.01
410-161790-10	HD-COD-SW-27-0/1-0	76005	4.02	1818936	7.51	1429026	11.01
410-161790-11	HD-COD-SW-28-0/1-0	82732	4.03	1834681	7.51	1421481	11.01
410-161790-12	HD-COD-SW-29-0/1-0	86404	4.06	1807424	7.51	1391780	11.01
410-161790-8	HD-COD-SW-17-0/1-0	90530	4.05	1863355	7.51	1468125	11.01
410-161790-8 DL	HD-COD-SW-17-0/1-0 DL	97594	4.07	1825831	7.51	1423356	11.01
410-161790-13	HD-QC1-0/1-1	72339	4.03	1843114	7.51	1465226	11.01
410-161790-13 DL	HD-QC1-0/1-1 DL	66813	4.04	1869121	7.51	1420968	11.01

TBA_d10 = t-Butyl alcohol-d₁₀ (IS)

FB = Fluorobenzene (IS)

CBZ_d5 = Chlorobenzene-d₅ (IS)

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

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-1

Matrix: Water

Lab File ID: CF29X09.D

Analysis Method: 8260D

Date Collected: 02/23/2024 11:03

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 15:27

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.: 478337

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.7	J	5.0	1.0
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
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-1

Matrix: Water

Lab File ID: CF29X09.D

Analysis Method: 8260D

Date Collected: 02/23/2024 11:03

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 15:27

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.: 478337

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	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)	111		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		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\10193\20240229-107545.b\CF29X09.D
 Lims ID: 410-161790-A-1
 Client ID: HD-COD-SW-6-0/1-0
 Sample Type: Client
 Inject. Date: 29-Feb-2024 15:27:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107545-010
 Operator ID: knk41612 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 03-Mar-2024 22:53:17 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 22:53:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.006	2.000	0.006	97	4075	0.0464	
6 Vinyl chloride	62		2.104				ND	
9 Bromomethane	94		2.402				ND	7
10 Chloroethane	64		2.469				ND	
18 1,1-Dichloroethene	96		3.238				ND	
20 Acetone	43	3.268	3.262	0.006	100	15125	1.74	
25 Carbon disulfide	76		3.500				ND	7
30 Methylene Chloride	84		3.835				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.860	3.841	0.019	97	166067	50.0	
34 Methyl tert-butyl ether	73		4.195				ND	7
35 trans-1,2-Dichloroethene	96		4.207				ND	
37 1,1-Dichloroethane	63		4.865				ND	
42 2-Butanone (MEK)	43		5.682				ND	7
43 cis-1,2-Dichloroethene	96	5.713	5.713	0.000	74	2701	0.0409	a
48 Chlorobromomethane	128		6.048				ND	
50 Chloroform	83	6.207	6.207	0.000	87	3561	0.0326	
\$ 54 Dibromofluoromethane (Surr)	113	6.432	6.426	0.006	94	526116	10.7	
53 1,1,1-Trichloroethane	97		6.432				ND	
56 Carbon tetrachloride	117		6.639				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.889	6.883	0.006	99	110620	11.1	
60 Benzene	78		6.914				ND	7
61 1,2-Dichloroethane	62		6.987				ND	
* 65 Fluorobenzene (IS)	96	7.335	7.328	0.006	99	2205395	10.0	
68 Trichloroethene	95	7.816	7.816	0.000	95	3858	0.0596	
70 1,2-Dichloropropane	63		8.157				ND	
76 Dichlorobromomethane	83		8.511				ND	7
80 cis-1,3-Dichloropropene	75		9.084				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.285				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.413	9.413	0.000	93	2258925	10.2	
84 Toluene	92	9.505	9.492	0.013	95	4272	0.0255	
85 trans-1,3-Dichloropropene	75		9.779				ND	7
87 1,1,2-Trichloroethane	97		9.986				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	10.072	10.072	0.000	85	2848	0.0368	
106 2-Hexanone	43		10.224				ND	7
108 Chlorodibromomethane	129		10.376				ND	
110 Ethylene Dibromide	107		10.486				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.944	10.943	0.001	84	1745409	10.0	
113 Chlorobenzene	112		10.968				ND	
114 1,1,1,2-Tetrachloroethane	131		11.059				ND	
115 Ethylbenzene	91		11.065				ND	7
116 m-Xylene & p-Xylene	106		11.181				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.523				ND	7
119 Styrene	104		11.541				ND	7
120 Bromoform	173		11.693				ND	7
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	95	799969	9.03	
126 1,1,2,2-Tetrachloroethane	83		12.090				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.876	0.006	93	1004667	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00084

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 03-Mar-2024 22:53:17

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X09.D

Injection Date: 29-Feb-2024 15:27:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: 410-161790-A-1

Lab Sample ID: 410-161790-1

Worklist Smp#: 10

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

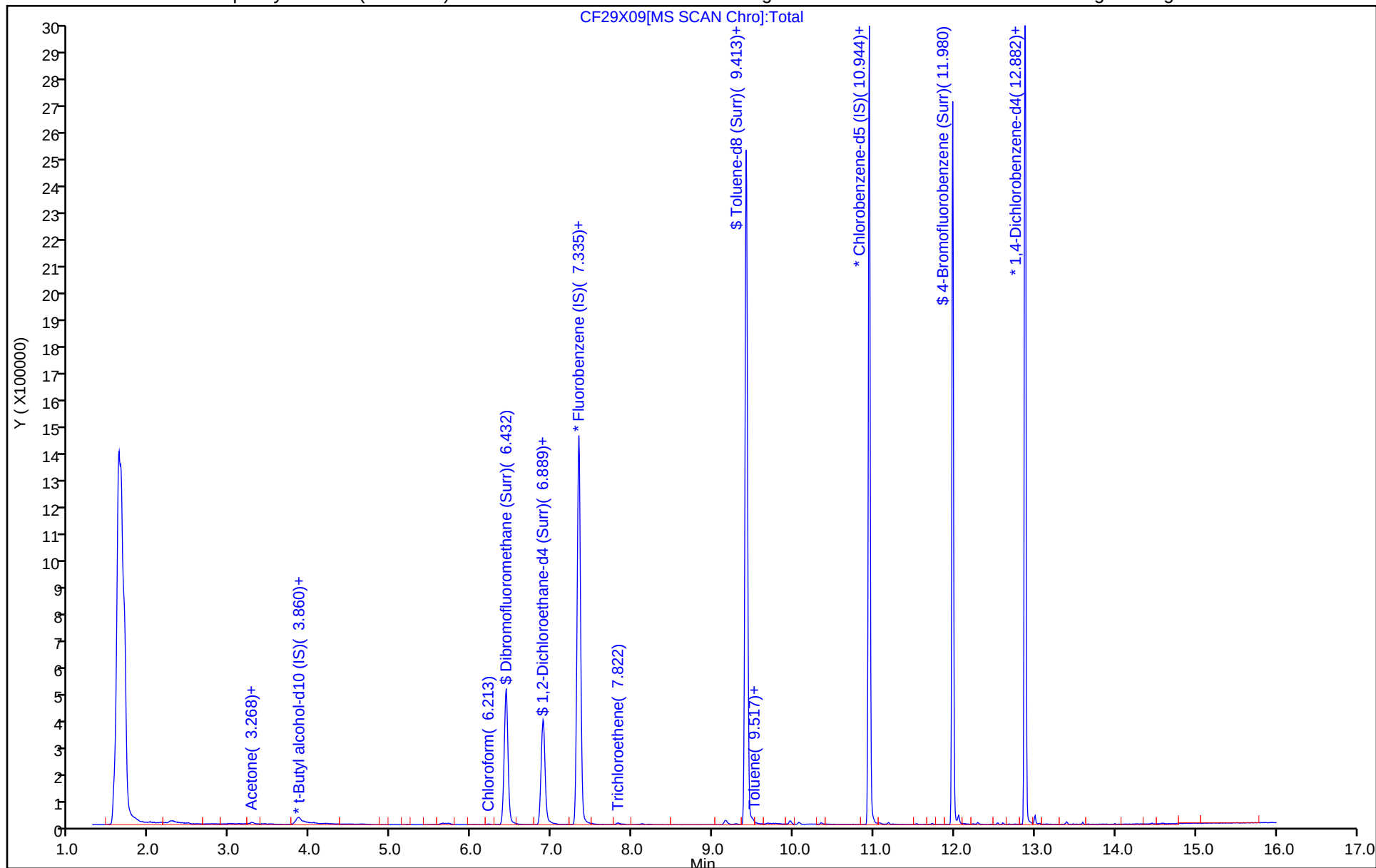
ALS Bottle#: 9

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X09.D
Lims ID: 410-161790-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 29-Feb-2024 15:27:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107545-010
Operator ID: knk41612 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2024 22:53:17 Calib Date: 11-Dec-2023 23:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 22:53:17

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.7	106.96
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.1	111.12
\$ 83 Toluene-d8 (Surr)	10.0	10.2	102.38
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.03	90.29

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X09.D

Injection Date: 29-Feb-2024 15:27:30

Instrument ID: 10193

Lims ID: 410-161790-A-1

Lab Sample ID: 410-161790-1

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

Operator ID: knk41612

ALS Bottle#: 9

Worklist Smp#: 10

Purge Vol: 25.000 mL

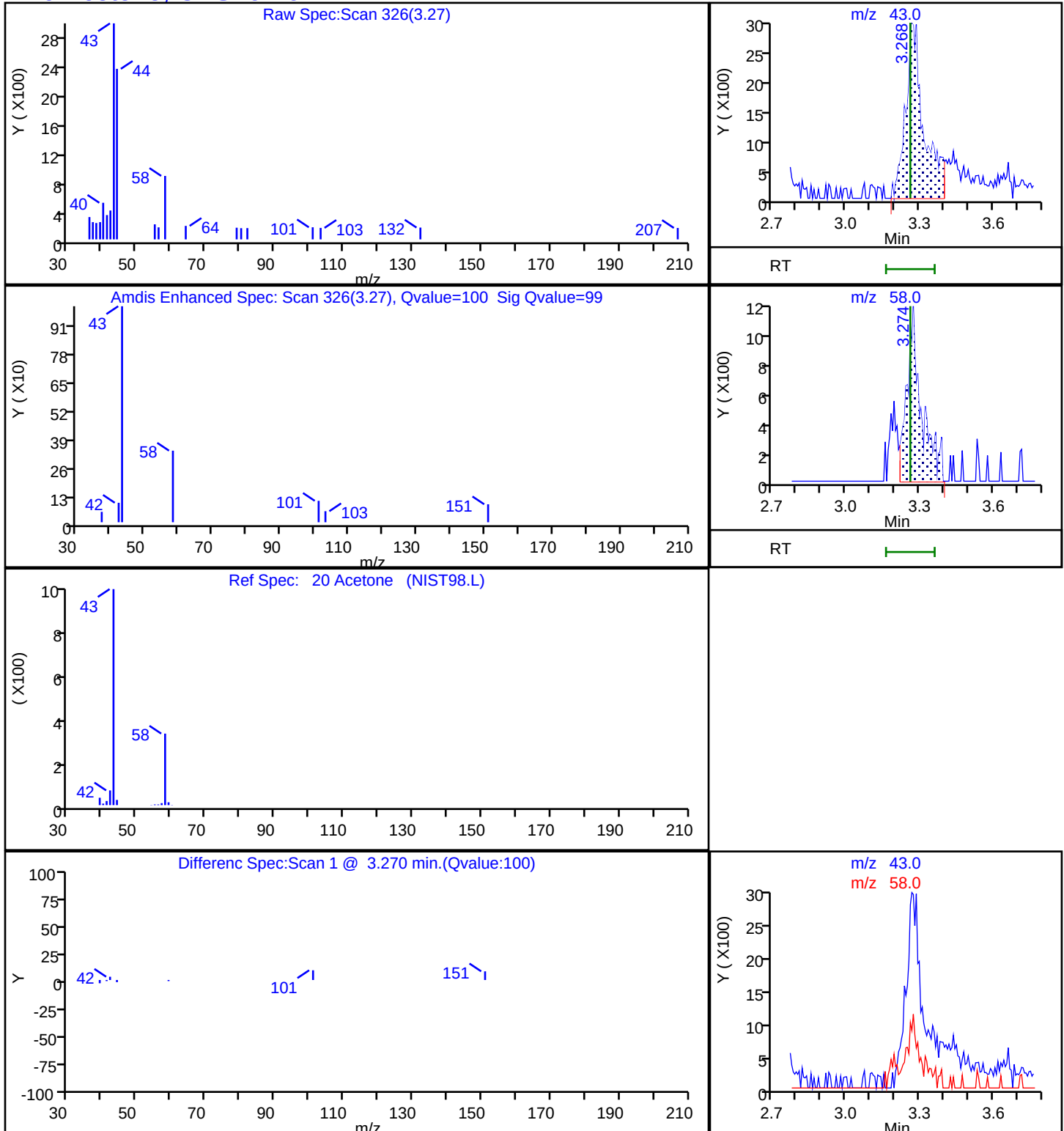
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1

Eurofins Lancaster Laboratories Environment Testing, LLC

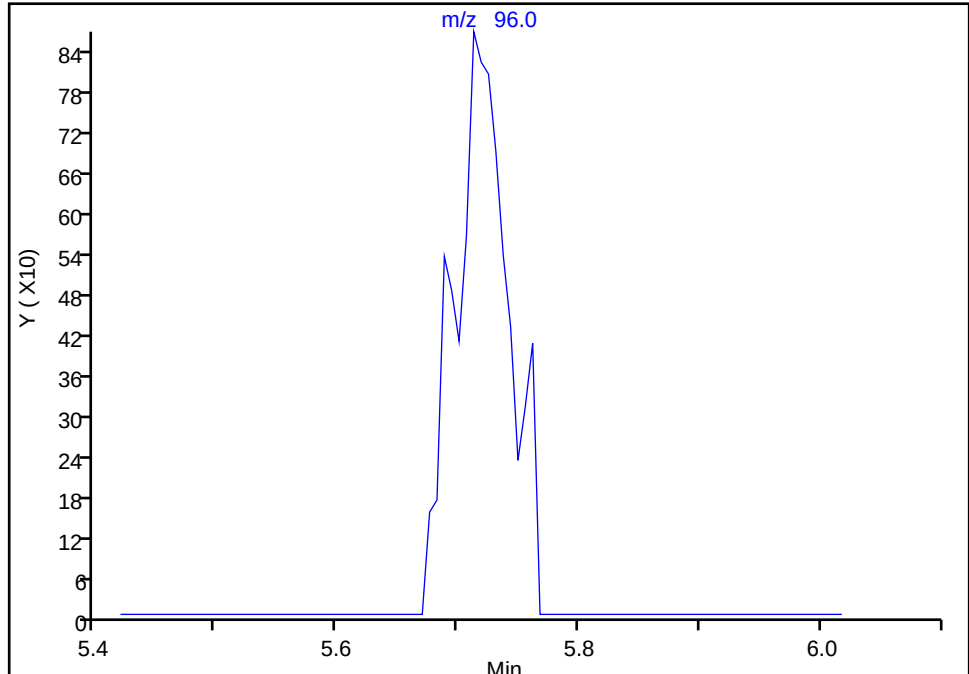
Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X09.D
Injection Date: 29-Feb-2024 15:27:30 Instrument ID: 10193
Lims ID: 410-161790-A-1 Lab Sample ID: 410-161790-1
Client ID: HD-COD-SW-6-0/1-0
Operator ID: knk41612 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

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

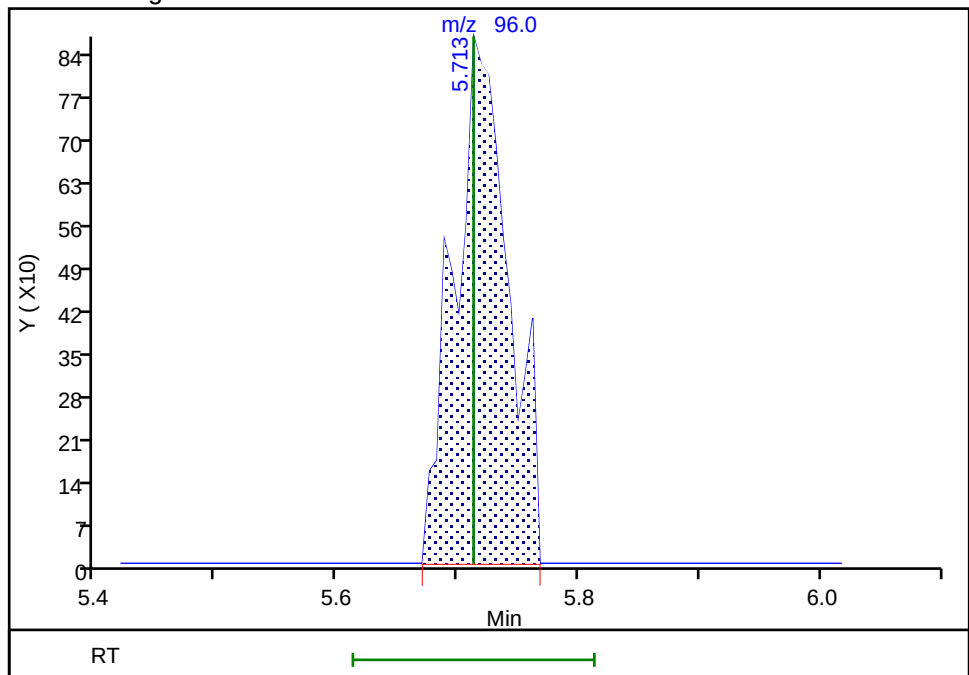
Signal: 1

Not Detected
Expected RT: 5.71

Processing Integration Results



Manual Integration Results



RT: 5.71
Area: 2701
Amount: 0.040874
Amount Units: ug/l

Reviewer: N9NA, 03-Mar-2024 22:53:04 07:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-2

Matrix: Water

Lab File ID: CF29X10.D

Analysis Method: 8260D

Date Collected: 02/23/2024 11:40

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 15:49

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.: 478337

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.5	J	5.0	1.0
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
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-161790-2

Matrix: Water Lab File ID: CF29X10.D

Analysis Method: 8260D Date Collected: 02/23/2024 11:40

Sample wt/vol: 25 (mL) Date Analyzed: 02/29/2024 15:49

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.: 478337 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	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)	111		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		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\10193\20240229-107545.b\CF29X10.D
 Lims ID: 410-161790-A-2
 Client ID: HD-COD-SW-7-0/1-0
 Sample Type: Client
 Inject. Date: 29-Feb-2024 15:49:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107545-011
 Operator ID: knk41612 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 03-Mar-2024 22:54:04 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 22:54:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.994	2.000	-0.006	94	4306	0.0508	
6 Vinyl chloride	62		2.104				ND	
9 Bromomethane	94		2.402				ND	
10 Chloroethane	64		2.469				ND	
18 1,1-Dichloroethene	96		3.238				ND	
20 Acetone	43	3.262	3.262	0.000	97	12173	1.47	
25 Carbon disulfide	76	3.494	3.500	-0.006	94	5677	0.0343	
30 Methylene Chloride	84		3.835				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.841	3.841	0.000	96	158641	50.0	
34 Methyl tert-butyl ether	73		4.195				ND	
35 trans-1,2-Dichloroethene	96		4.207				ND	
37 1,1-Dichloroethane	63		4.865				ND	
42 2-Butanone (MEK)	43		5.682				ND	7
43 cis-1,2-Dichloroethene	96	5.713	5.713	0.000	19	3145	0.0493	
48 Chlorobromomethane	128		6.048				ND	
50 Chloroform	83	6.201	6.207	-0.007	87	4924	0.0467	
\$ 54 Dibromofluoromethane (Surr)	113	6.432	6.426	0.006	94	507626	10.7	
53 1,1,1-Trichloroethane	97		6.432				ND	
56 Carbon tetrachloride	117		6.639				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.889	6.883	0.006	99	106203	11.1	
60 Benzene	78	6.926	6.914	0.012	80	4090	0.0169	a
61 1,2-Dichloroethane	62		6.987				ND	
* 65 Fluorobenzene (IS)	96	7.334	7.328	0.006	99	2127336	10.0	
68 Trichloroethene	95	7.822	7.816	0.006	91	4117	0.0660	Ma
70 1,2-Dichloropropane	63		8.157				ND	
76 Dichlorobromomethane	83		8.511				ND	7
80 cis-1,3-Dichloropropene	75		9.084				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.285				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.413	9.413	0.000	93	2200806	10.2	
84 Toluene	92	9.493	9.492	0.001	98	4949	0.0301	
85 trans-1,3-Dichloropropene	75		9.779				ND	7
87 1,1,2-Trichloroethane	97		9.986				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	10.072	10.072	0.000	92	4353	0.0574	
106 2-Hexanone	43		10.224				ND	7
108 Chlorodibromomethane	129		10.376				ND	
110 Ethylene Dibromide	107		10.486				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.943	10.943	0.000	84	1708243	10.0	
113 Chlorobenzene	112		10.968				ND	
114 1,1,1,2-Tetrachloroethane	131		11.059				ND	
115 Ethylbenzene	91		11.065				ND	7
116 m-Xylene & p-Xylene	106		11.181				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.523				ND	7
119 Styrene	104		11.541				ND	7
120 Bromoform	173		11.693				ND	7
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	96	786463	9.07	
126 1,1,2,2-Tetrachloroethane	83		12.090				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.876	0.006	93	983370	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00084

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 03-Mar-2024 22:54:04

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X10.D

Injection Date: 29-Feb-2024 15:49:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: 410-161790-A-2

Lab Sample ID: 410-161790-2

Worklist Smp#: 11

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

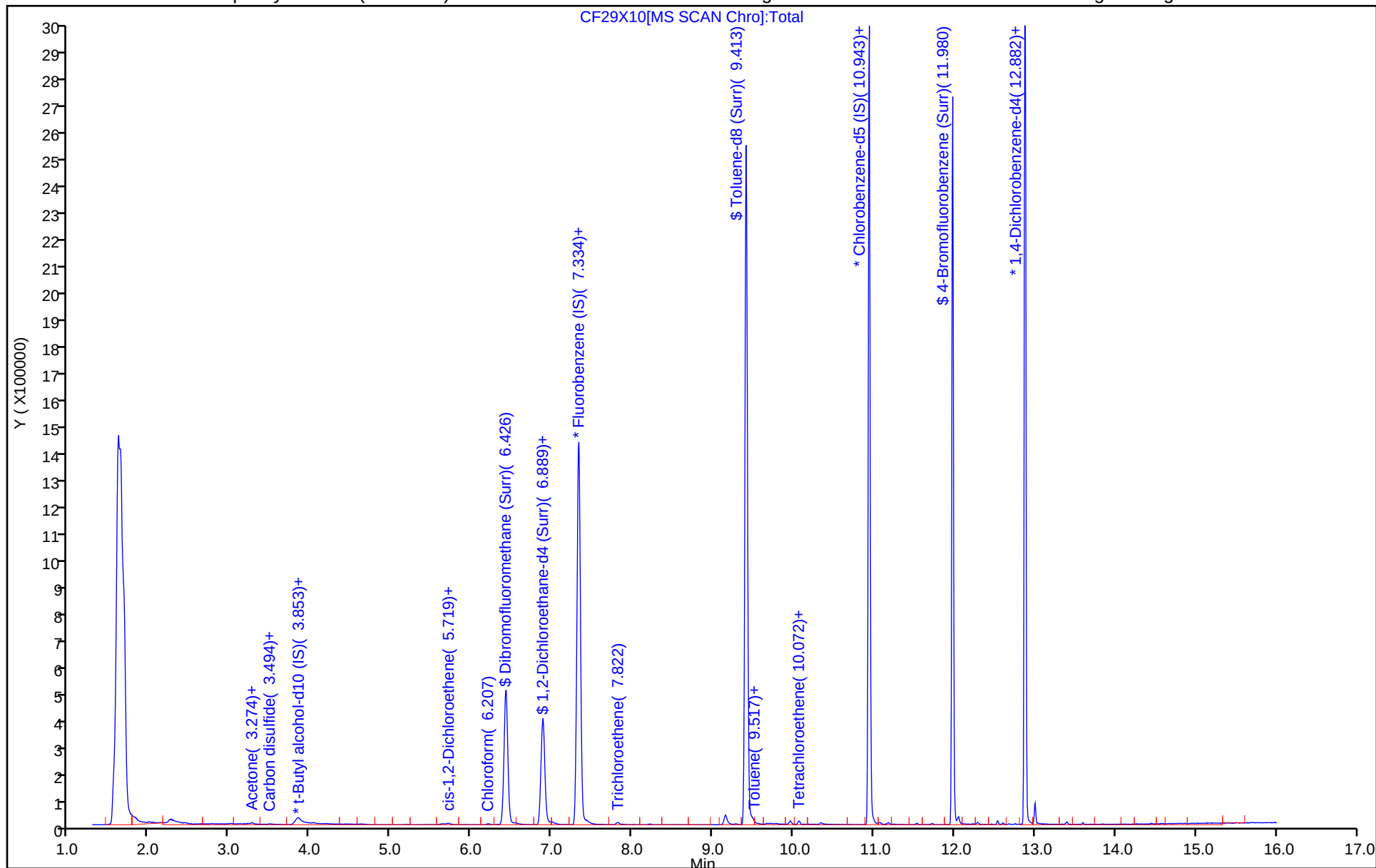
ALS Bottle#: 10

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



4/2/2024
4:19:02 PM

Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X10.D
Lims ID: 410-161790-A-2
Client ID: HD-COD-SW-7-0/1-0
Sample Type: Client
Inject. Date: 29-Feb-2024 15:49:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107545-011
Operator ID: knk41612 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2024 22:54:04 Calib Date: 11-Dec-2023 23:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 22:54:04

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.7	106.99
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.1	110.60
\$ 83 Toluene-d8 (Surr)	10.0	10.2	101.92
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.07	90.69

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X10.D

Injection Date: 29-Feb-2024 15:49:30

Instrument ID: 10193

Lims ID: 410-161790-A-2

Lab Sample ID: 410-161790-2

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

Operator ID: knk41612

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

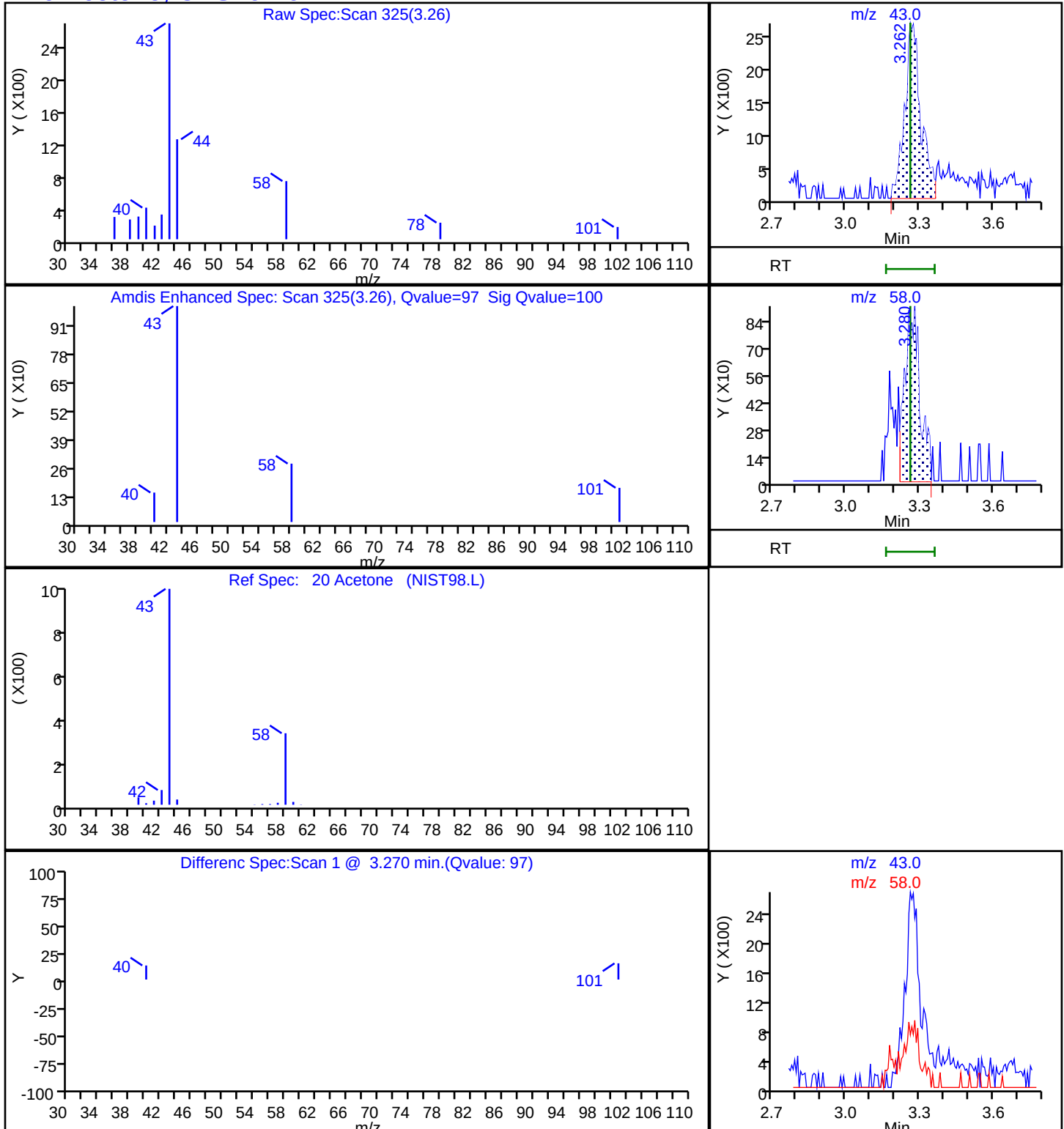
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

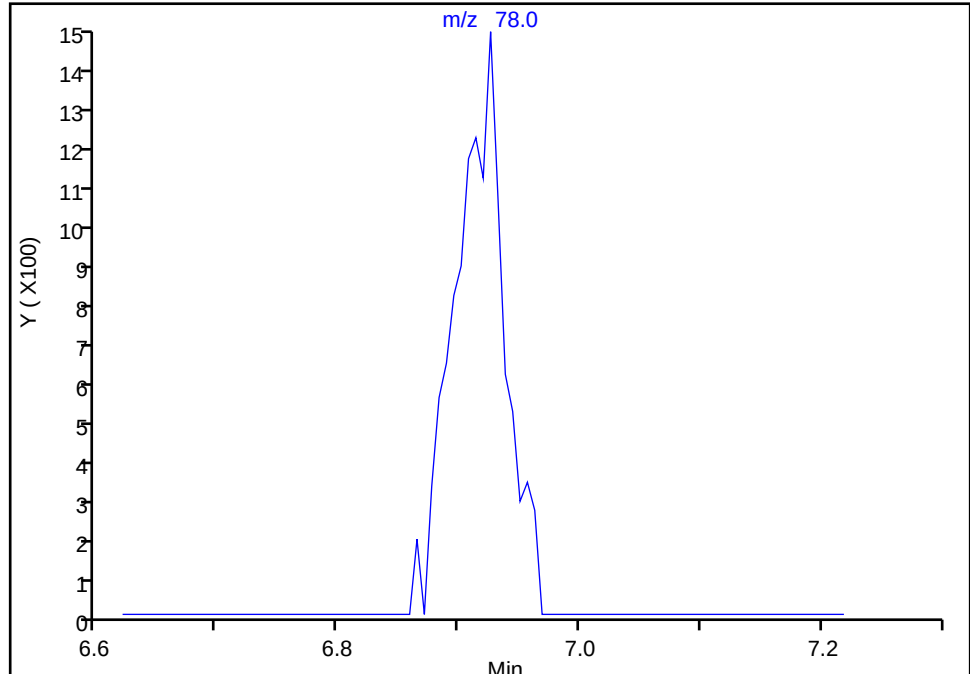
Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X10.D
Injection Date: 29-Feb-2024 15:49:30 Instrument ID: 10193
Lims ID: 410-161790-A-2 Lab Sample ID: 410-161790-2
Client ID: HD-COD-SW-7-0/1-0
Operator ID: knk41612 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

60 Benzene, CAS: 71-43-2

Signal: 1

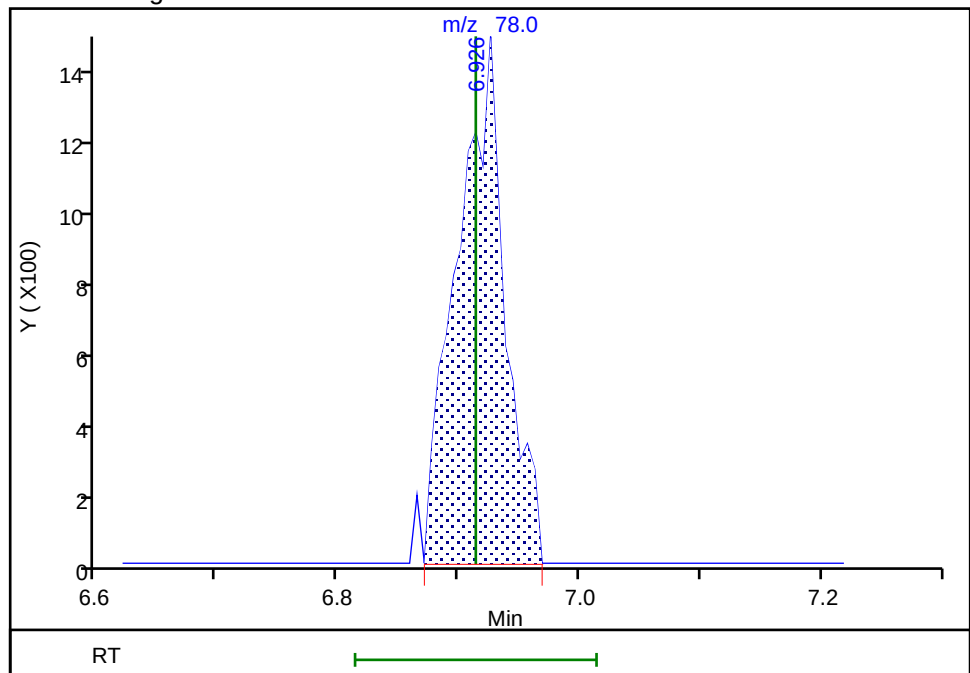
Not Detected
Expected RT: 6.91

Processing Integration Results



RT: 6.93
Area: 4090
Amount: 0.016942
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 03-Mar-2024 22:53:42 07:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

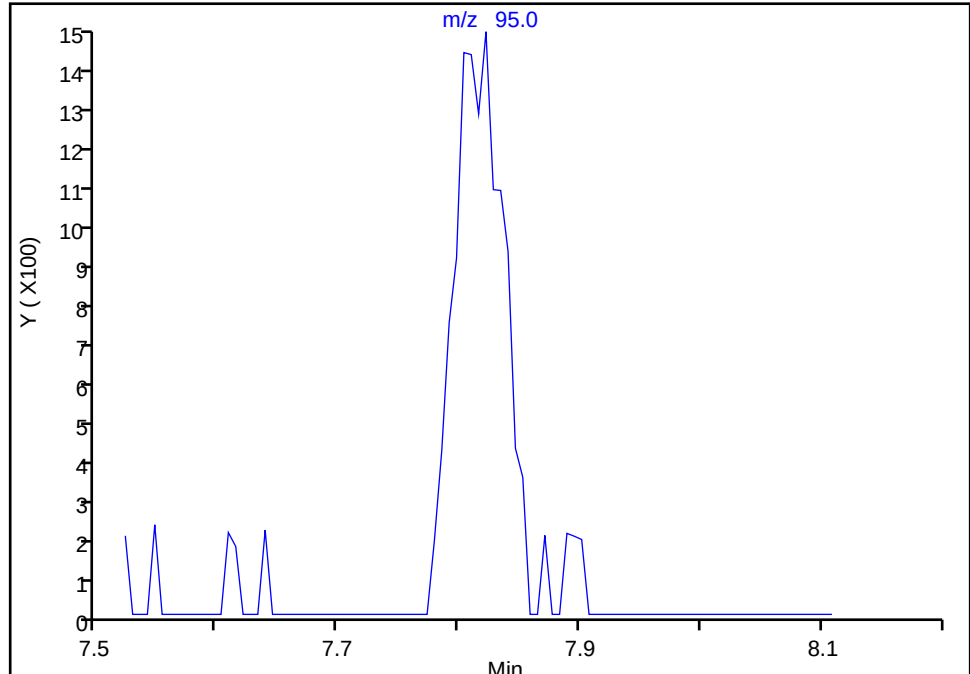
Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X10.D
Injection Date: 29-Feb-2024 15:49:30 Instrument ID: 10193
Lims ID: 410-161790-A-2 Lab Sample ID: 410-161790-2
Client ID: HD-COD-SW-7-0/1-0
Operator ID: knk41612 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

68 Trichloroethene, CAS: 79-01-6

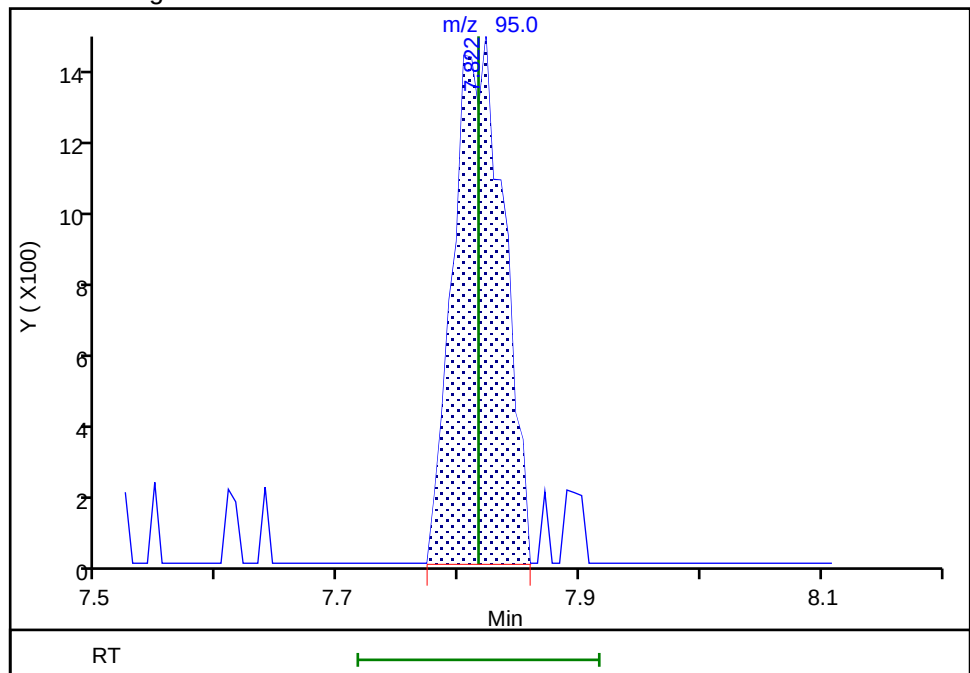
Signal: 1

Not Detected
Expected RT: 7.82

Processing Integration Results



Manual Integration Results



RT: 7.82
Area: 4117
Amount: 0.065958
Amount Units: ug/l

Reviewer: N9NA, 03-Mar-2024 22:53:55 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.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-3

Matrix: Water

Lab File ID: CF29X11.D

Analysis Method: 8260D

Date Collected: 02/23/2024 09:59

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 16:11

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.: 478337

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.4	J	5.0	1.0
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	0.44	J	0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-161790-3

Matrix: Water Lab File ID: CF29X11.D

Analysis Method: 8260D Date Collected: 02/23/2024 09:59

Sample wt/vol: 25 (mL) Date Analyzed: 02/29/2024 16:11

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.: 478337 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X11.D
 Lims ID: 410-161790-A-3
 Client ID: HD-COD-SW-8-0/1-0
 Sample Type: Client
 Inject. Date: 29-Feb-2024 16:11:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107545-012
 Operator ID: knk41612 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 03-Mar-2024 22:54:54 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 22:54:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.006	2.000	0.006	95	3406	0.0395	
6 Vinyl chloride	62		2.104				ND	
9 Bromomethane	94		2.402				ND	
10 Chloroethane	64		2.469				ND	
18 1,1-Dichloroethene	96		3.238				ND	7
20 Acetone	43	3.274	3.262	0.012	97	11844	1.45	
25 Carbon disulfide	76		3.500				ND	7
30 Methylene Chloride	84		3.835				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.853	3.841	0.012	96	156305	50.0	
34 Methyl tert-butyl ether	73		4.195				ND	7
35 trans-1,2-Dichloroethene	96		4.207				ND	
37 1,1-Dichloroethane	63		4.865				ND	7
42 2-Butanone (MEK)	43		5.682				ND	7
43 cis-1,2-Dichloroethene	96	5.713	5.713	0.000	77	4406	0.0679	a
48 Chlorobromomethane	128		6.048				ND	
50 Chloroform	83	6.213	6.207	0.006	89	3940	0.0367	
\$ 54 Dibromofluoromethane (Surr)	113	6.432	6.426	0.006	94	504998	10.5	
53 1,1,1-Trichloroethane	97		6.432				ND	7
56 Carbon tetrachloride	117		6.639				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.889	6.883	0.006	99	105942	10.8	
60 Benzene	78		6.914				ND	7
61 1,2-Dichloroethane	62		6.987				ND	
* 65 Fluorobenzene (IS)	96	7.334	7.328	0.006	99	2165410	10.0	
68 Trichloroethene	95	7.816	7.816	0.000	98	5729	0.0902	
70 1,2-Dichloropropane	63		8.157				ND	
76 Dichlorobromomethane	83		8.511				ND	7
80 cis-1,3-Dichloropropene	75		9.084				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.285				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.413	9.413	0.000	93	2206654	10.2	
84 Toluene	92		9.492				ND	7
85 trans-1,3-Dichloropropene	75		9.779				ND	
87 1,1,2-Trichloroethane	97		9.986				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	10.065	10.072	-0.007	95	33547	0.4422	
106 2-Hexanone	43		10.224				ND	7
108 Chlorodibromomethane	129		10.376				ND	
110 Ethylene Dibromide	107		10.486				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.943	10.943	0.000	84	1710192	10.0	
113 Chlorobenzene	112		10.968				ND	
114 1,1,1,2-Tetrachloroethane	131		11.059				ND	
115 Ethylbenzene	91		11.065				ND	7
116 m-Xylene & p-Xylene	106		11.181				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.523				ND	
119 Styrene	104		11.541				ND	7
120 Bromoform	173		11.693				ND	7
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	97	789505	9.09	
126 1,1,2,2-Tetrachloroethane	83		12.090				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.876	0.006	93	996844	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00084

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 03-Mar-2024 22:54:54

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X11.D

Injection Date: 29-Feb-2024 16:11:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: 410-161790-A-3

Lab Sample ID: 410-161790-3

Worklist Smp#: 12

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

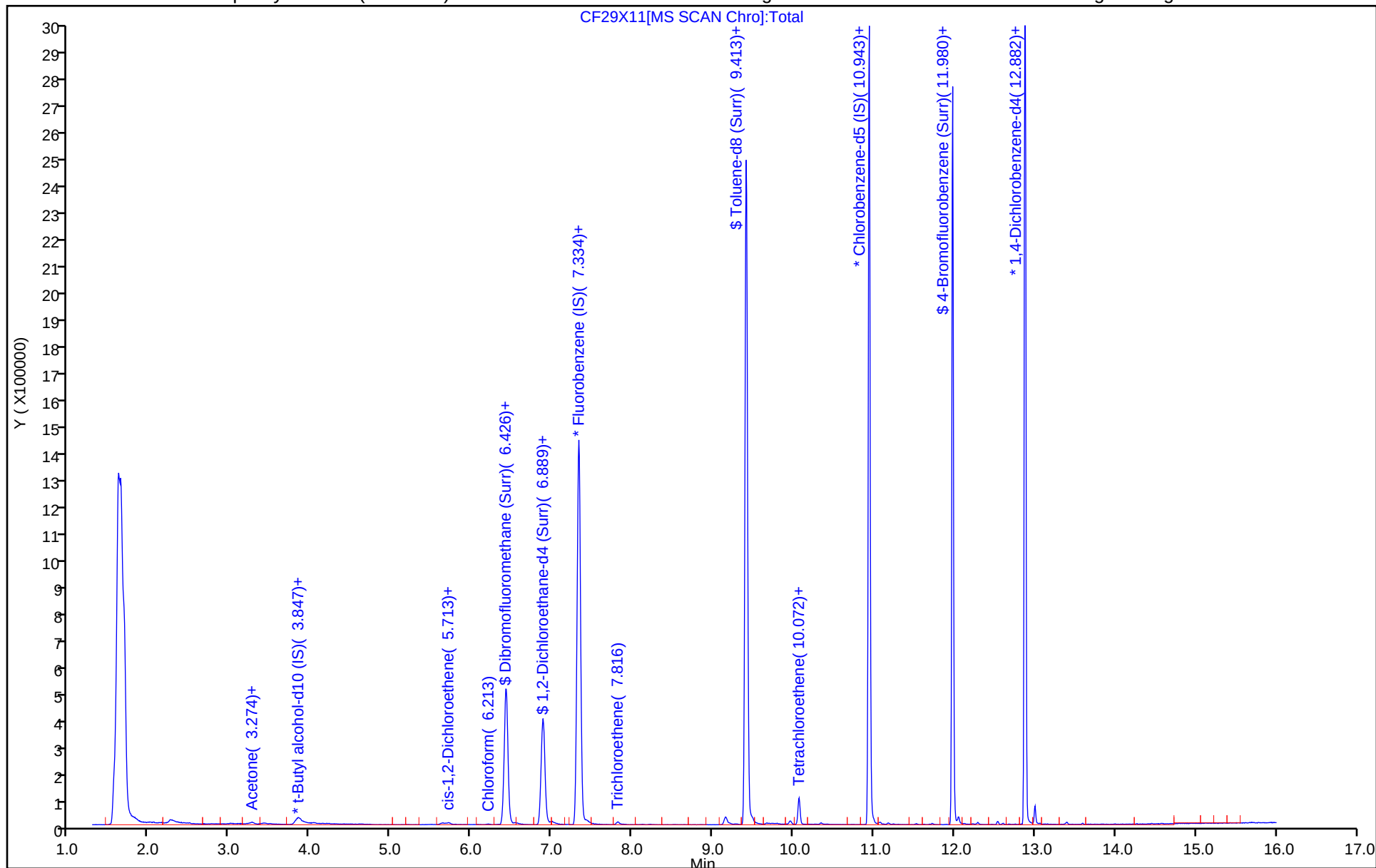
ALS Bottle#: 11

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



4/2/2024
4:19:02 PM

Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X11.D
Lims ID: 410-161790-A-3
Client ID: HD-COD-SW-8-0/1-0
Sample Type: Client
Inject. Date: 29-Feb-2024 16:11:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107545-012
Operator ID: knk41612 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2024 22:54:54 Calib Date: 11-Dec-2023 23:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 22:54:54

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.5	104.56
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	108.39
\$ 83 Toluene-d8 (Surr)	10.0	10.2	102.07
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.09	90.94

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X11.D

Injection Date: 29-Feb-2024 16:11:30

Instrument ID: 10193

Lims ID: 410-161790-A-3

Lab Sample ID: 410-161790-3

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

Operator ID: knk41612

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 25.000 mL

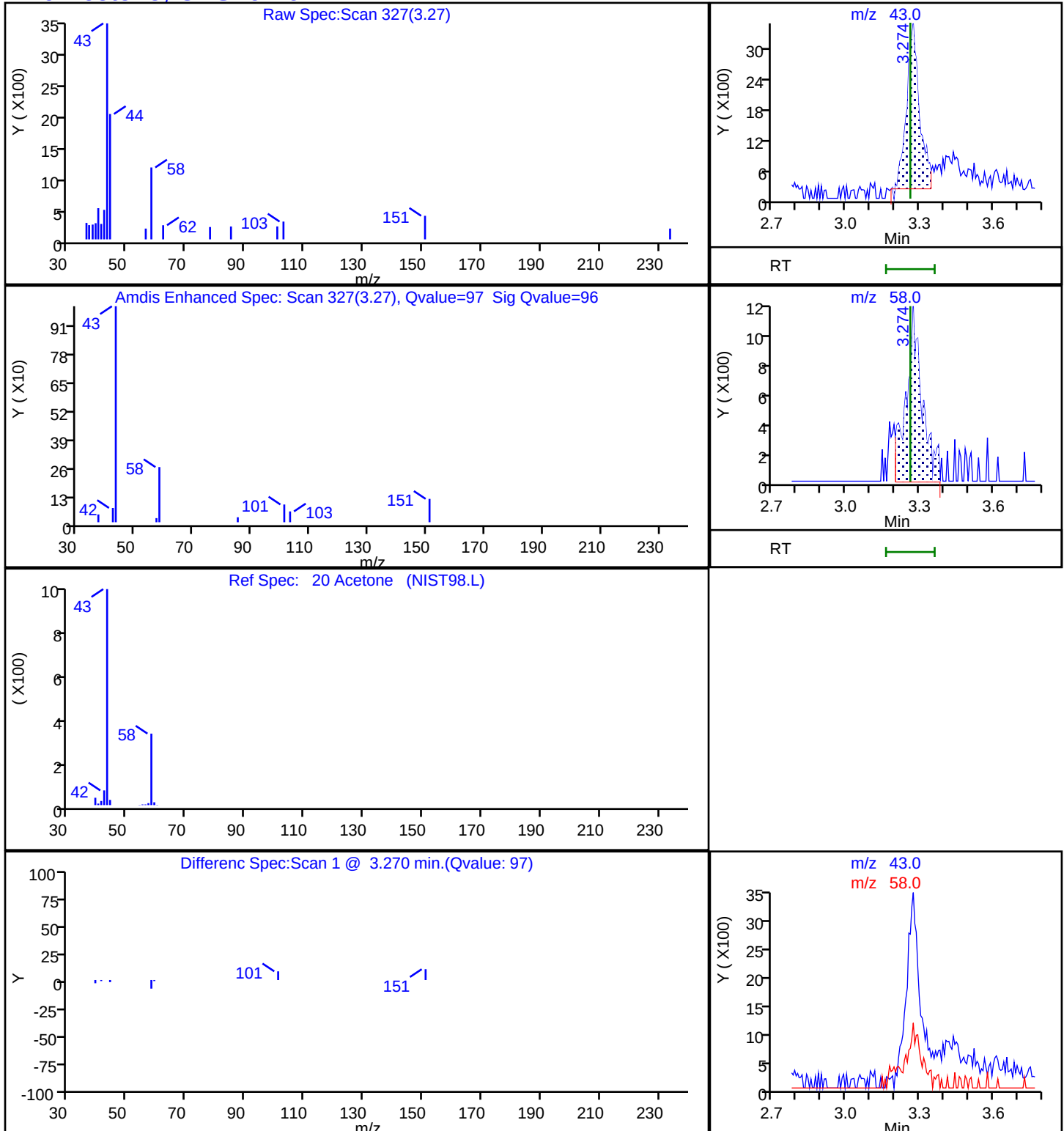
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X11.D

Injection Date: 29-Feb-2024 16:11:30

Instrument ID: 10193

Lims ID: 410-161790-A-3

Lab Sample ID: 410-161790-3

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

Operator ID: knk41612

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 25.000 mL

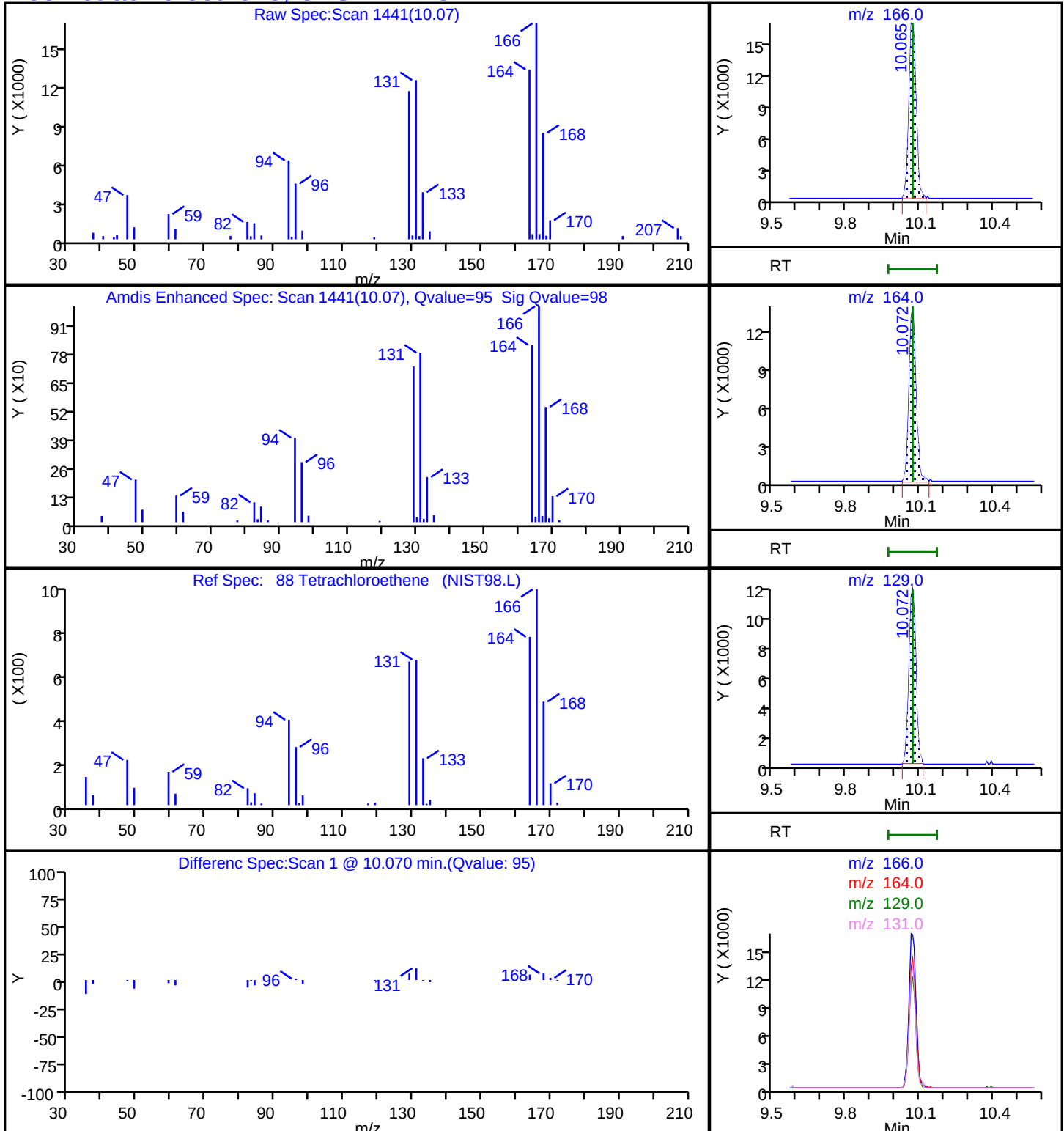
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

88 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X11.D

Injection Date: 29-Feb-2024 16:11:30

Instrument ID: 10193

Lims ID: 410-161790-A-3

Lab Sample ID: 410-161790-3

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

Operator ID: knk41612

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 25.000 mL

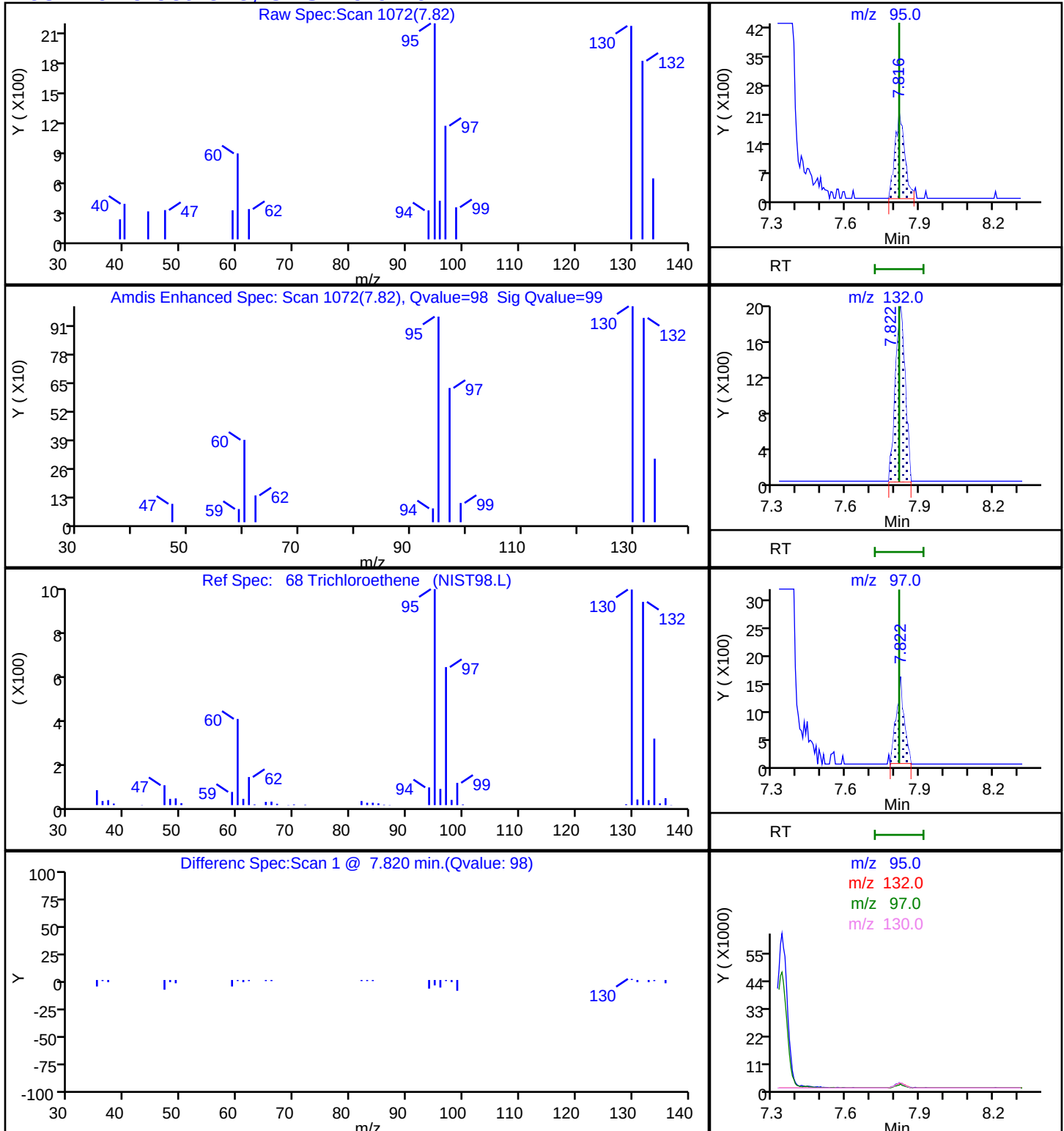
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

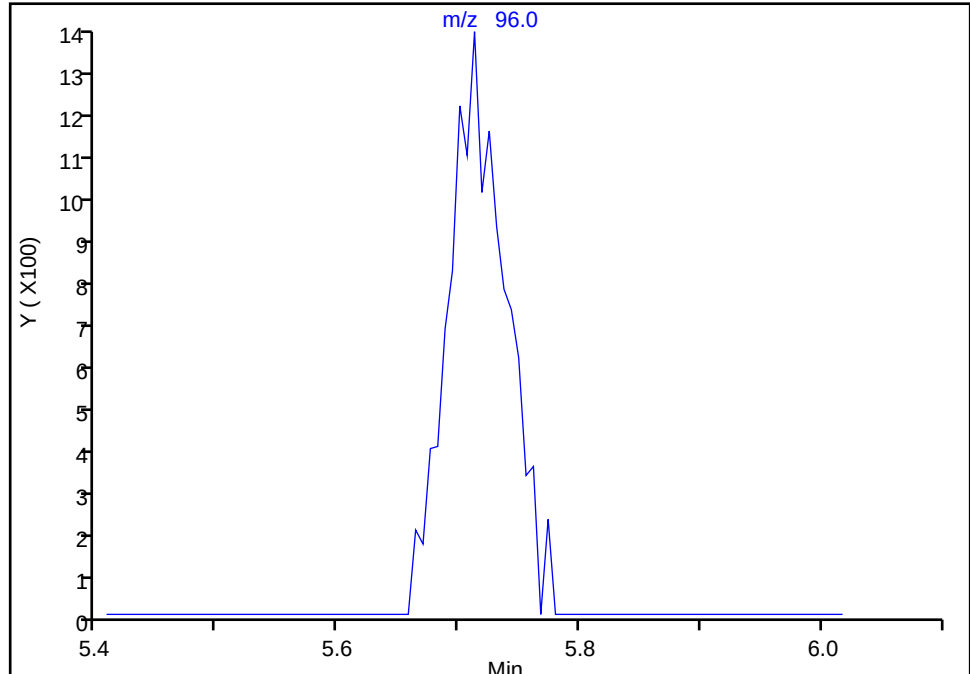
Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X11.D
Injection Date: 29-Feb-2024 16:11:30 Instrument ID: 10193
Lims ID: 410-161790-A-3 Lab Sample ID: 410-161790-3
Client ID: HD-COD-SW-8-0/1-0
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

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

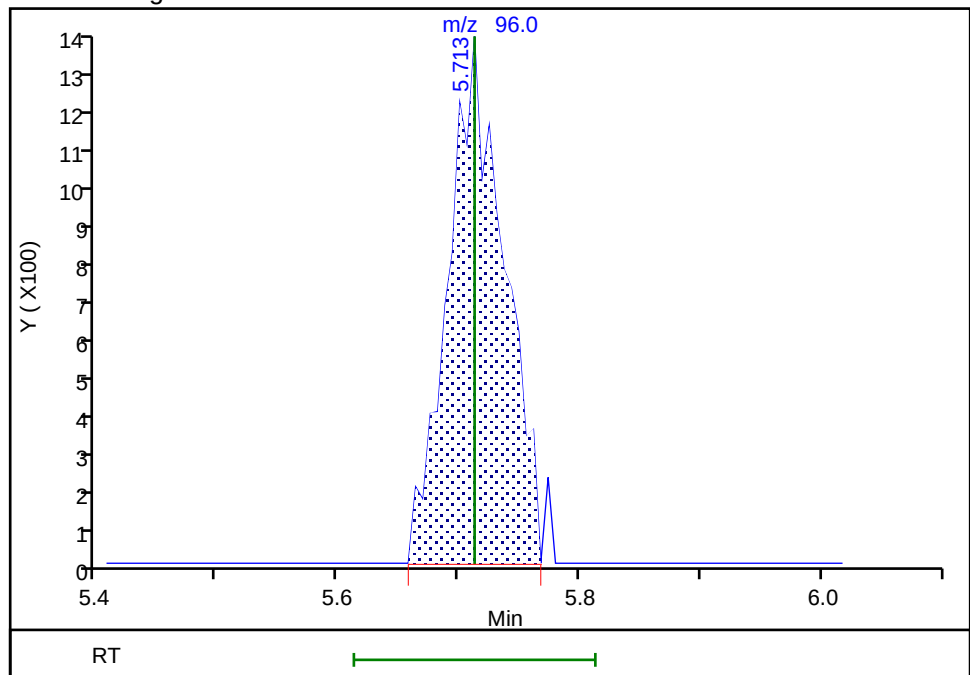
Signal: 1

Not Detected
Expected RT: 5.71

Processing Integration Results



Manual Integration Results



RT: 5.71
Area: 4406
Amount: 0.067907
Amount Units: ug/l

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-4

Matrix: Water

Lab File ID: CF29X12.D

Analysis Method: 8260D

Date Collected: 02/23/2024 12:55

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 16:33

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.: 478337

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.4	J	5.0	1.0
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
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-4

Matrix: Water

Lab File ID: CF29X12.D

Analysis Method: 8260D

Date Collected: 02/23/2024 12:55

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 16:33

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.: 478337

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	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)	110		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X12.D
 Lims ID: 410-161790-A-4
 Client ID: HD-COD-SW-9-0/1-0
 Sample Type: Client
 Inject. Date: 29-Feb-2024 16:33:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107545-013
 Operator ID: knk41612 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 03-Mar-2024 22:54:54 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 22:55:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.994	2.000	-0.006	94	3017	0.0351	
6 Vinyl chloride	62		2.104				ND	7
9 Bromomethane	94		2.402				ND	7
10 Chloroethane	64		2.469				ND	
18 1,1-Dichloroethene	96		3.238				ND	7
20 Acetone	43	3.256	3.262	-0.006	96	11459	1.35	
25 Carbon disulfide	76		3.500				ND	7
30 Methylene Chloride	84		3.835				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.835	3.841	-0.006	97	161768	50.0	
34 Methyl tert-butyl ether	73		4.195				ND	7
35 trans-1,2-Dichloroethene	96		4.207				ND	
37 1,1-Dichloroethane	63		4.865				ND	
42 2-Butanone (MEK)	43		5.682				ND	7
43 cis-1,2-Dichloroethene	96	5.707	5.713	-0.006	81	3810	0.0590	
48 Chlorobromomethane	128		6.048				ND	
50 Chloroform	83	6.207	6.207	0.000	92	6431	0.0603	
\$ 54 Dibromofluoromethane (Surr)	113	6.426	6.426	0.000	94	507625	10.6	
53 1,1,1-Trichloroethane	97		6.432				ND	7
56 Carbon tetrachloride	117		6.639				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.883	6.883	0.000	99	106870	11.0	
60 Benzene	78		6.914				ND	7
61 1,2-Dichloroethane	62		6.987				ND	
* 65 Fluorobenzene (IS)	96	7.328	7.328	0.000	99	2153953	10.0	
68 Trichloroethene	95	7.816	7.816	0.000	94	4297	0.0680	
70 1,2-Dichloropropane	63		8.157				ND	
76 Dichlorobromomethane	83		8.511				ND	7
80 cis-1,3-Dichloropropene	75		9.084				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.285				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.413	9.413	0.000	93	2203108	10.1	
84 Toluene	92	9.493	9.492	0.001	98	7930	0.0480	
85 trans-1,3-Dichloropropene	75		9.779				ND	7
87 1,1,2-Trichloroethane	97		9.986				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	10.072	10.072	0.000	97	13016	0.1706	
106 2-Hexanone	43		10.224				ND	7
108 Chlorodibromomethane	129		10.376				ND	7
110 Ethylene Dibromide	107		10.486				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.944	10.943	0.001	84	1719489	10.0	
113 Chlorobenzene	112		10.968				ND	
114 1,1,1,2-Tetrachloroethane	131		11.059				ND	
115 Ethylbenzene	91		11.065				ND	7
116 m-Xylene & p-Xylene	106		11.181				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.523				ND	7
119 Styrene	104		11.541				ND	7
120 Bromoform	173		11.693				ND	7
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	97	777428	8.91	
126 1,1,2,2-Tetrachloroethane	83		12.090				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.876	0.006	93	989071	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00084

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 03-Mar-2024 22:55:22

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X12.D

Injection Date: 29-Feb-2024 16:33:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: 410-161790-A-4

Lab Sample ID: 410-161790-4

Worklist Smp#: 13

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

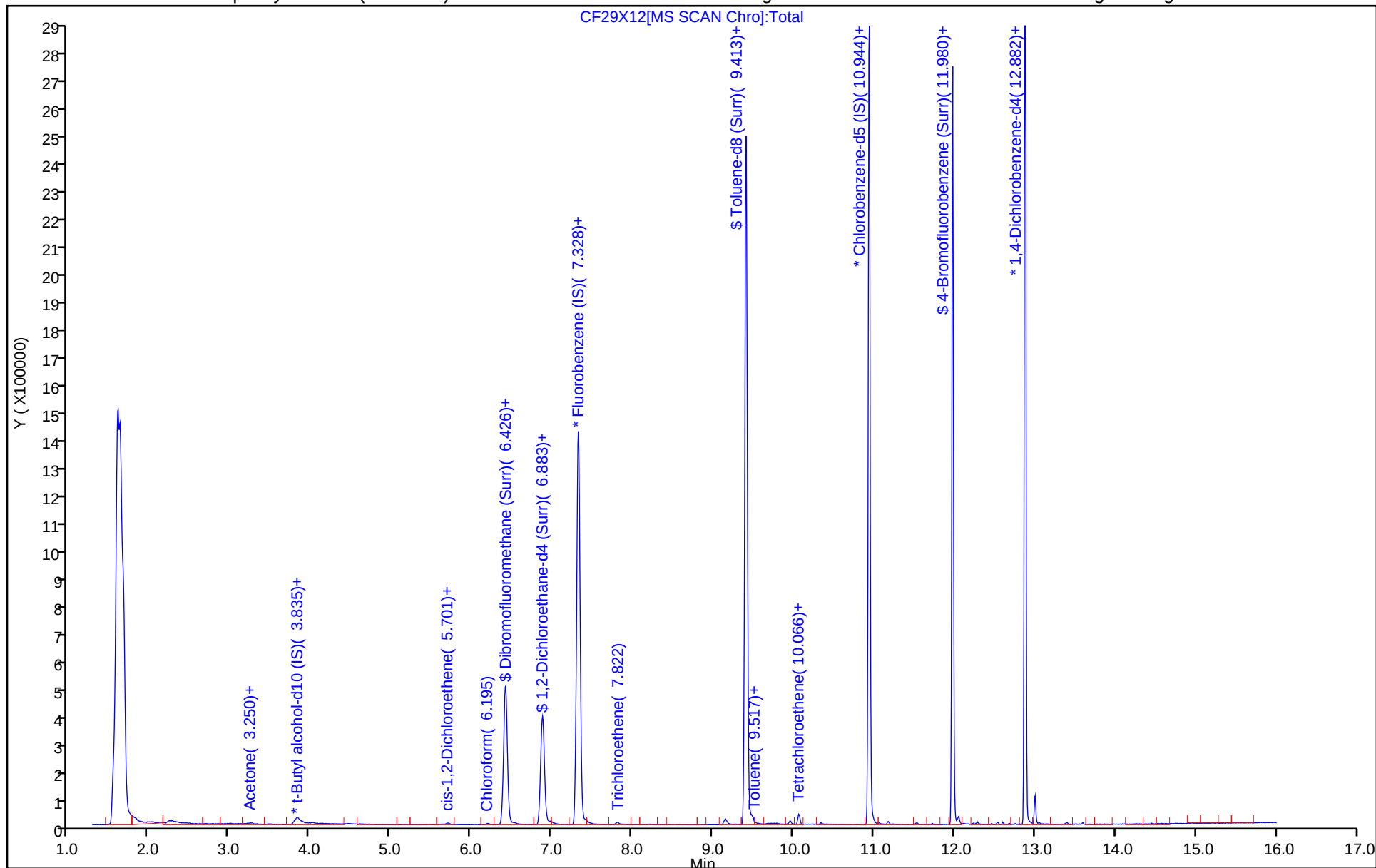
ALS Bottle#: 12

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



4/2/2024
4:19:02 PM

Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X12.D
Lims ID: 410-161790-A-4
Client ID: HD-COD-SW-9-0/1-0
Sample Type: Client
Inject. Date: 29-Feb-2024 16:33:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107545-013
Operator ID: knk41612 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2024 22:54:54 Calib Date: 11-Dec-2023 23:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 22:55:21

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.6	105.67
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.0	109.92
\$ 83 Toluene-d8 (Surr)	10.0	10.1	101.36
\$ 124 4-Bromofluorobenzene (Surr)	10.0	8.91	89.06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X12.D

Injection Date: 29-Feb-2024 16:33:30

Instrument ID: 10193

Lims ID: 410-161790-A-4

Lab Sample ID: 410-161790-4

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

Operator ID: knk41612

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

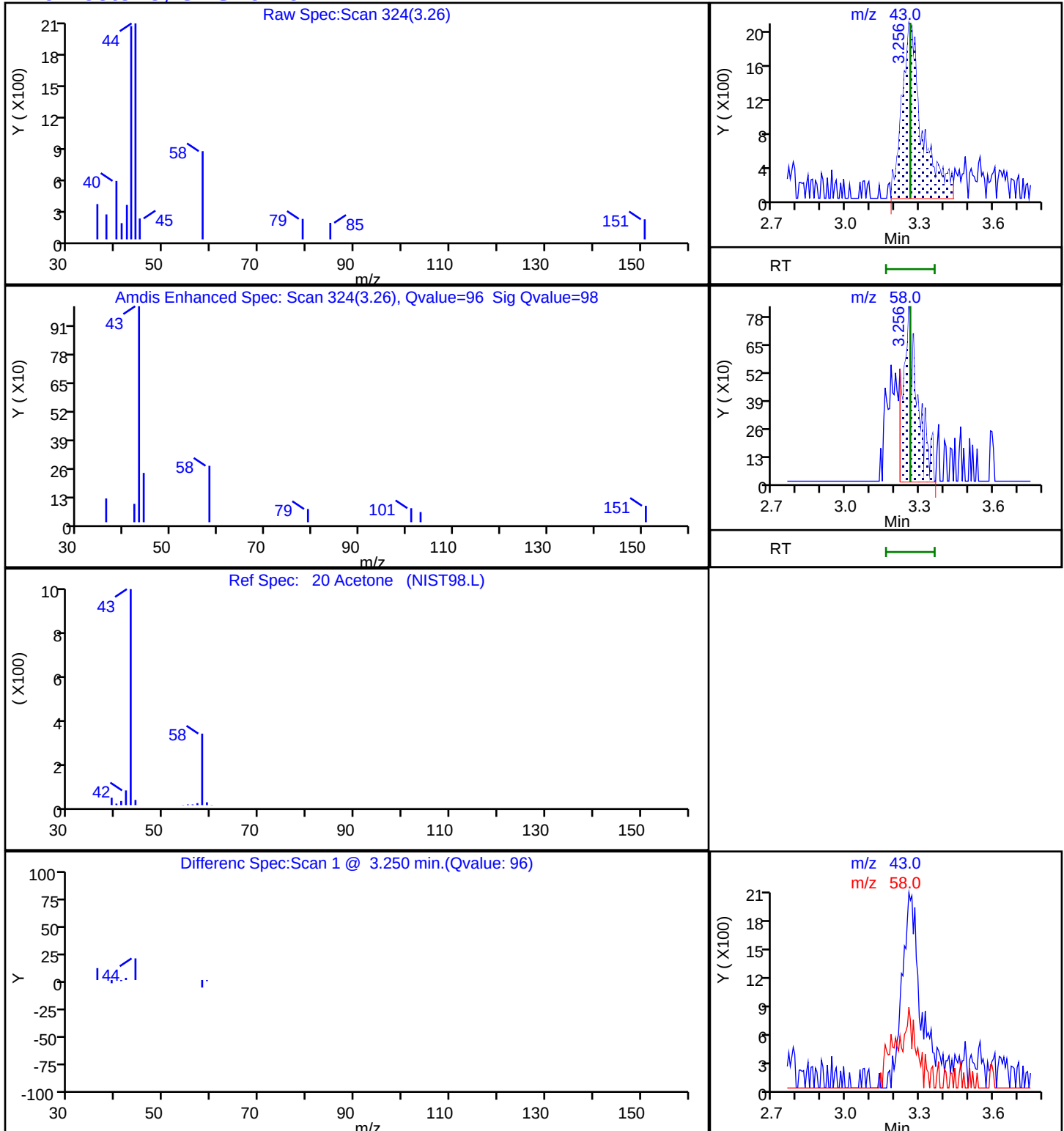
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-5

Matrix: Water

Lab File ID: CF29X13.D

Analysis Method: 8260D

Date Collected: 02/23/2024 10:15

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 16:55

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 478337

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.6	J	5.0	1.0
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	0.68		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-5

Matrix: Water

Lab File ID: CF29X13.D

Analysis Method: 8260D

Date Collected: 02/23/2024 10:15

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 16:55

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 478337

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.087	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)	108		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		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\10193\20240229-107545.b\CF29X13.D
 Lims ID: 410-161790-A-5
 Client ID: HD-COD-SW-13-0/1-0
 Sample Type: Client
 Inject. Date: 29-Feb-2024 16:55:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107545-014
 Operator ID: knk41612 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 03-Mar-2024 22:56:02 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 22:56:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.994	2.000	-0.006	98	5452	0.0654	
6 Vinyl chloride	62		2.104				ND	
9 Bromomethane	94		2.402				ND	7
10 Chloroethane	64		2.469				ND	
18 1,1-Dichloroethene	96		3.238				ND	7
20 Acetone	43	3.268	3.262	0.006	97	13431	1.63	
25 Carbon disulfide	76		3.500				ND	7
30 Methylene Chloride	84		3.835				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.841	3.841	0.000	97	157145	50.0	
34 Methyl tert-butyl ether	73		4.195				ND	
35 trans-1,2-Dichloroethene	96		4.207				ND	
37 1,1-Dichloroethane	63		4.865				ND	7
42 2-Butanone (MEK)	43		5.682				ND	7
43 cis-1,2-Dichloroethene	96	5.725	5.713	0.012	74	4542	0.0724	
48 Chlorobromomethane	128		6.048				ND	
50 Chloroform	83	6.219	6.207	0.012	90	3668	0.0354	a
\$ 54 Dibromofluoromethane (Surr)	113	6.426	6.426	0.000	94	499336	10.7	
53 1,1,1-Trichloroethane	97		6.432				ND	U
56 Carbon tetrachloride	117		6.639				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.883	6.883	0.000	99	102204	10.8	
60 Benzene	78		6.914				ND	7
61 1,2-Dichloroethane	62		6.987				ND	
* 65 Fluorobenzene (IS)	96	7.335	7.328	0.007	99	2092967	10.0	
68 Trichloroethene	95	7.822	7.816	0.006	91	5346	0.0871	a
70 1,2-Dichloropropane	63		8.157				ND	
76 Dichlorobromomethane	83		8.511				ND	7
80 cis-1,3-Dichloropropene	75		9.084				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.285				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.413	9.413	0.000	93	2133431	10.2	
84 Toluene	92	9.487	9.492	-0.005	94	4251	0.0267	
85 trans-1,3-Dichloropropene	75		9.779				ND	
87 1,1,2-Trichloroethane	97		9.986				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	10.072	10.072	0.000	98	49968	0.6792	
106 2-Hexanone	43		10.224				ND	7
108 Chlorodibromomethane	129		10.376				ND	
110 Ethylene Dibromide	107		10.486				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.944	10.943	0.001	84	1658289	10.0	
113 Chlorobenzene	112		10.968				ND	
114 1,1,1,2-Tetrachloroethane	131		11.059				ND	
115 Ethylbenzene	91		11.065				ND	7
116 m-Xylene & p-Xylene	106		11.181				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.523				ND	7
119 Styrene	104		11.541				ND	7
120 Bromoform	173		11.693				ND	7
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	96	755276	8.97	
126 1,1,2,2-Tetrachloroethane	83		12.090				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.876	0.006	93	959569	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00084

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 03-Mar-2024 22:56:03

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X13.D

Injection Date: 29-Feb-2024 16:55:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: 410-161790-A-5

Lab Sample ID: 410-161790-5

Worklist Smp#: 14

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

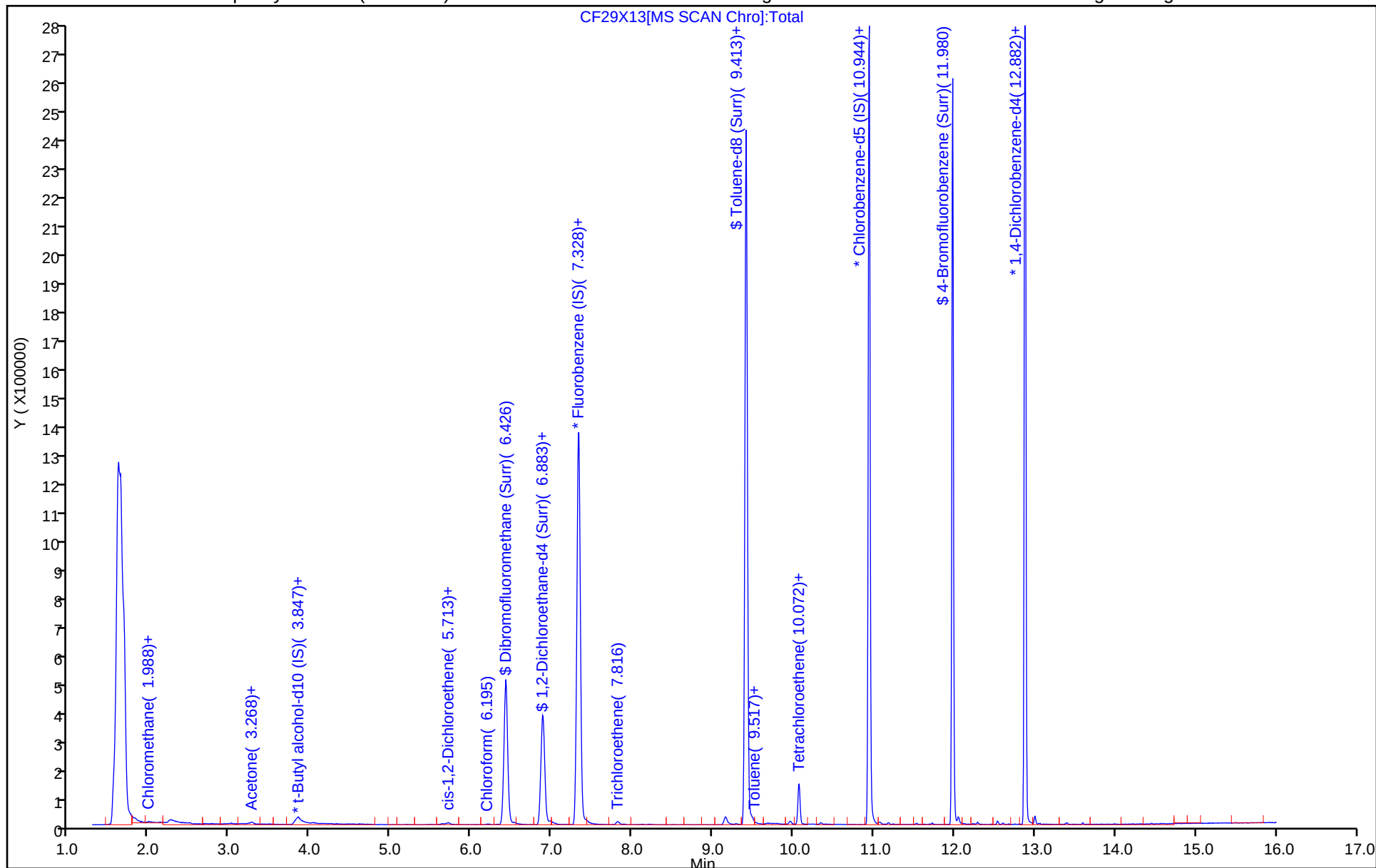
ALS Bottle#: 13

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X13.D
Lims ID: 410-161790-A-5
Client ID: HD-COD-SW-13-0/1-0
Sample Type: Client
Inject. Date: 29-Feb-2024 16:55:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107545-014
Operator ID: knk41612 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2024 22:56:02 Calib Date: 11-Dec-2023 23:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 22:56:02

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.7	106.97
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	108.18
\$ 83 Toluene-d8 (Surr)	10.0	10.2	101.77
\$ 124 4-Bromofluorobenzene (Surr)	10.0	8.97	89.72

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X13.D

Injection Date: 29-Feb-2024 16:55:30

Instrument ID: 10193

Lims ID: 410-161790-A-5

Lab Sample ID: 410-161790-5

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

Operator ID: knk41612

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

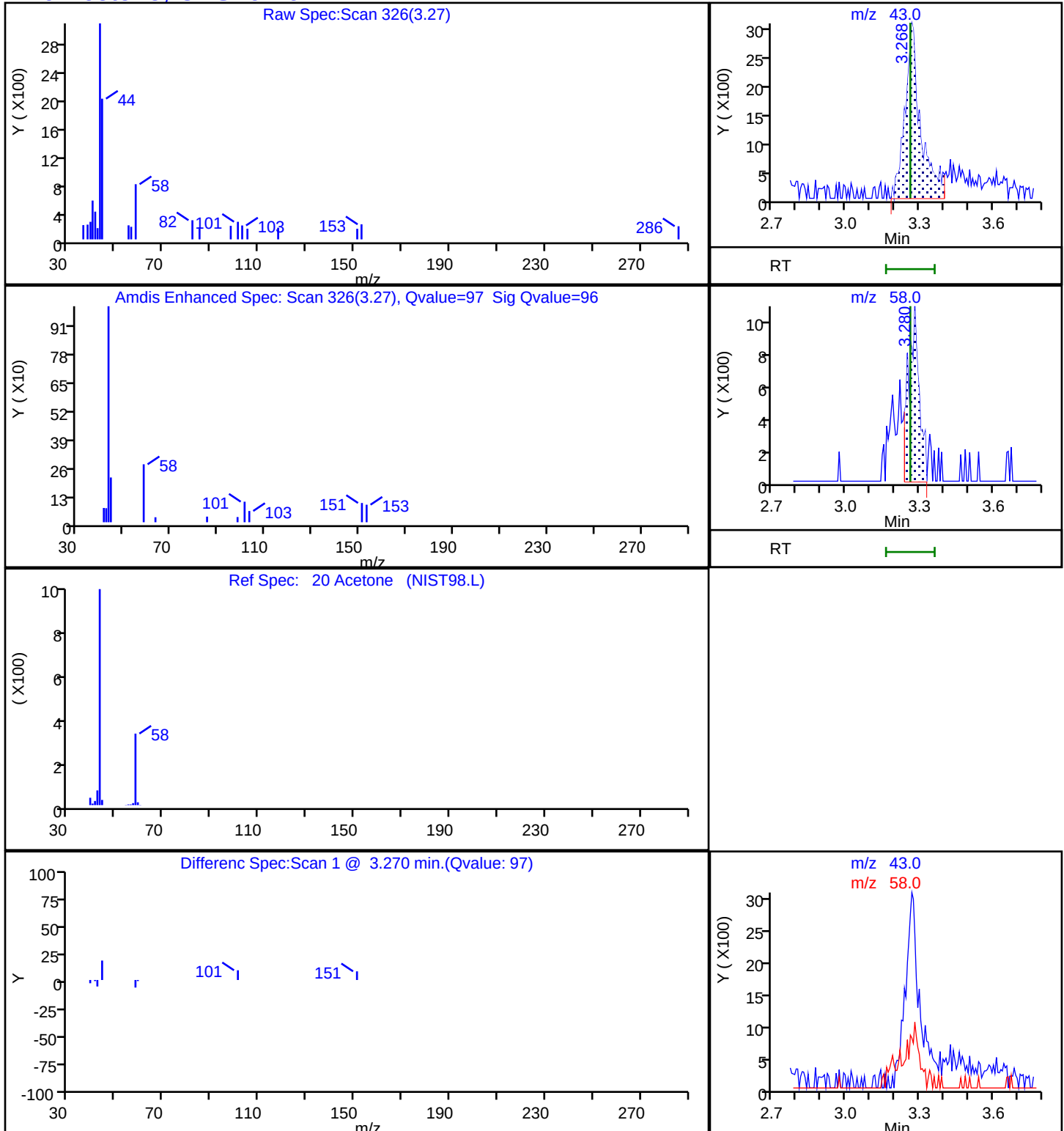
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X13.D

Injection Date: 29-Feb-2024 16:55:30

Instrument ID: 10193

Lims ID: 410-161790-A-5

Lab Sample ID: 410-161790-5

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

Operator ID: knk41612

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

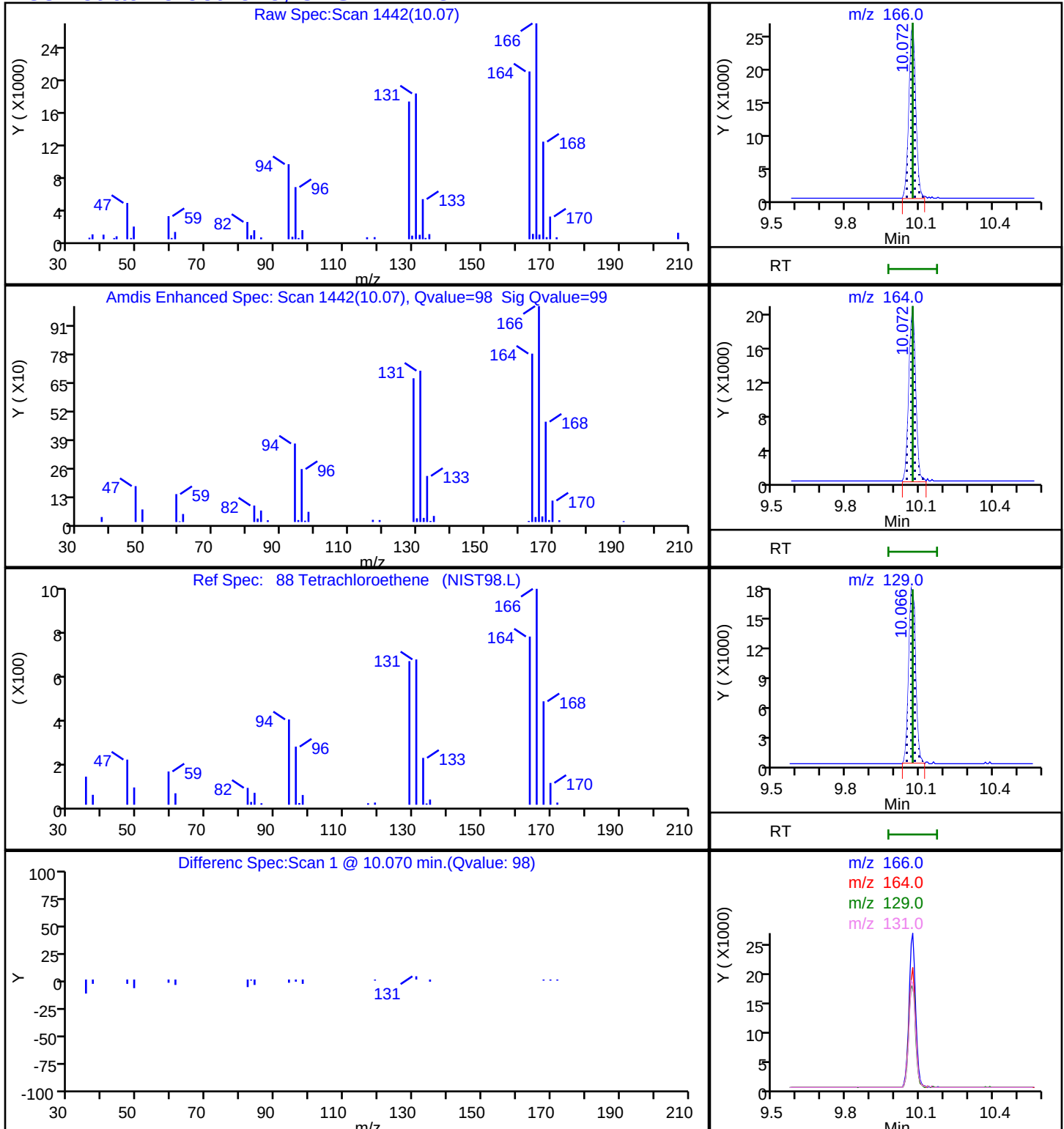
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

88 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X13.D

Injection Date: 29-Feb-2024 16:55:30

Instrument ID: 10193

Lims ID: 410-161790-A-5

Lab Sample ID: 410-161790-5

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

Operator ID: knk41612

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

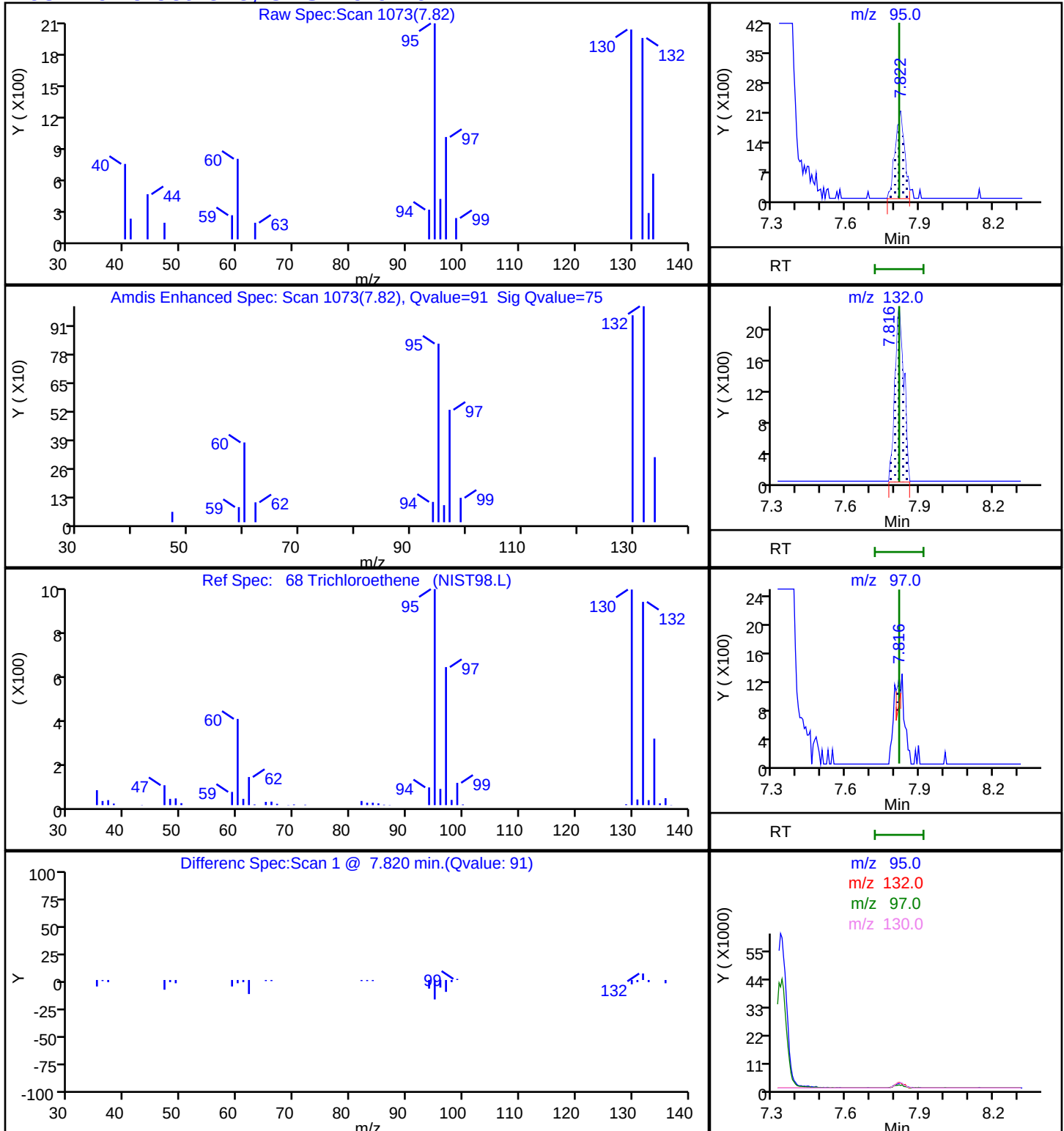
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

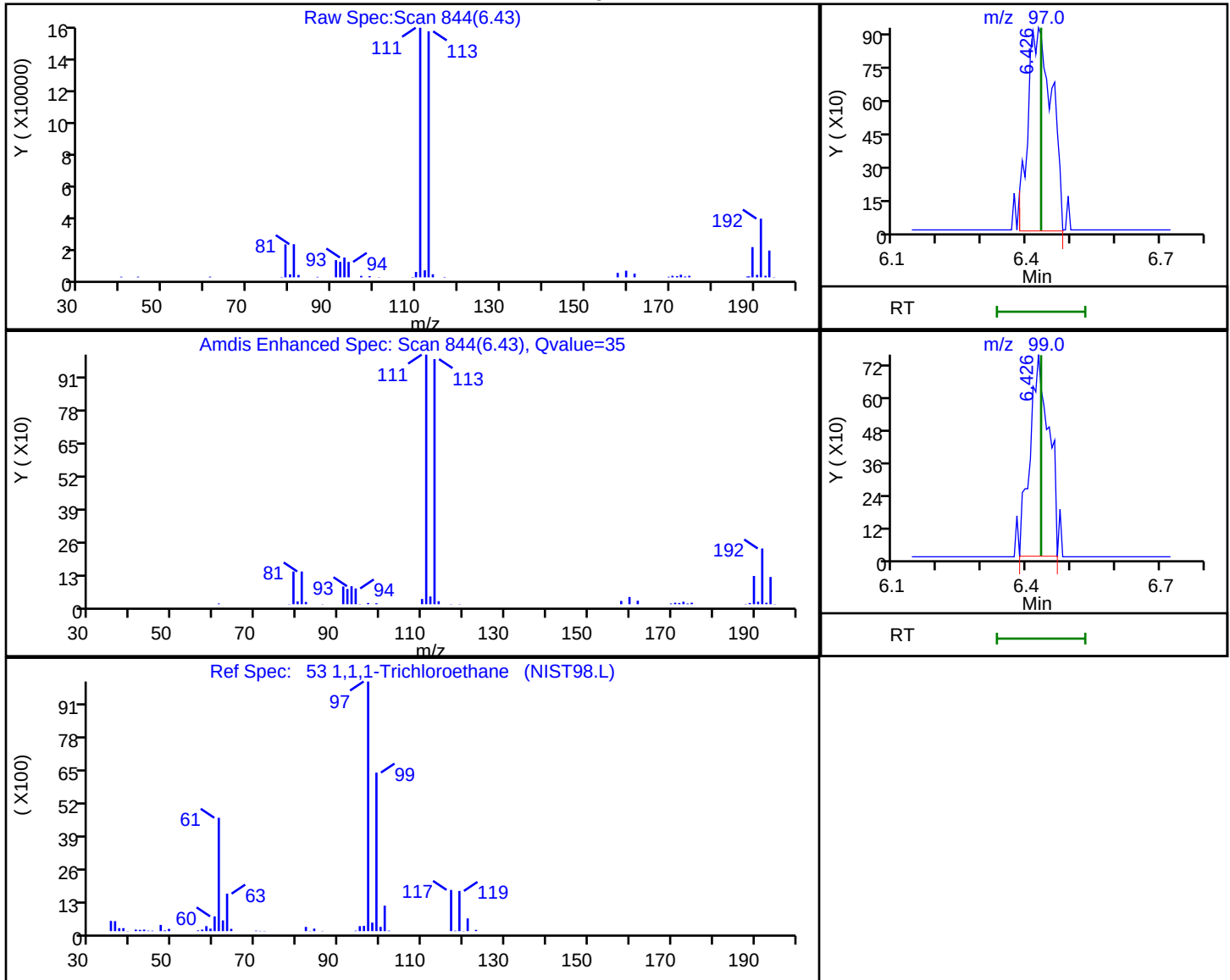
68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X13.D
Injection Date: 29-Feb-2024 16:55:30 Instrument ID: 10193
Lims ID: 410-161790-A-5 Lab Sample ID: 410-161790-5
Client ID: HD-COD-SW-13-0/1-0
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

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

Processing Results



RT	Mass	Response	Amount
6.43	97.00	3479	0.040370
6.43	99.00	2236	

Reviewer: N9NA, 03-Mar-2024 22:55:47 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

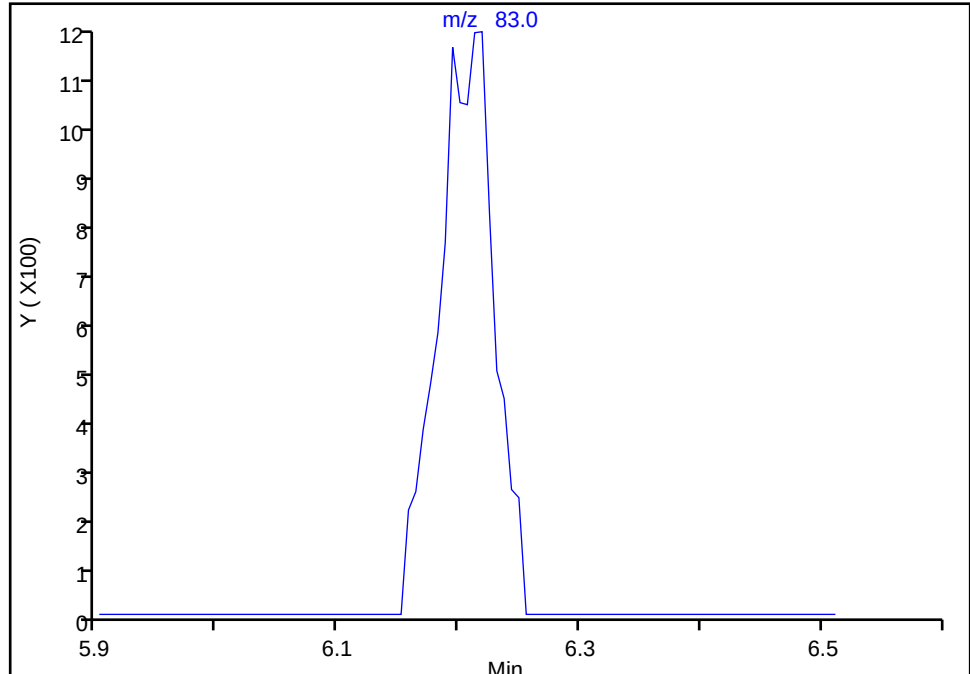
Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X13.D
Injection Date: 29-Feb-2024 16:55:30 Instrument ID: 10193
Lims ID: 410-161790-A-5 Lab Sample ID: 410-161790-5
Client ID: HD-COD-SW-13-0/1-0
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

50 Chloroform, CAS: 67-66-3

Signal: 1

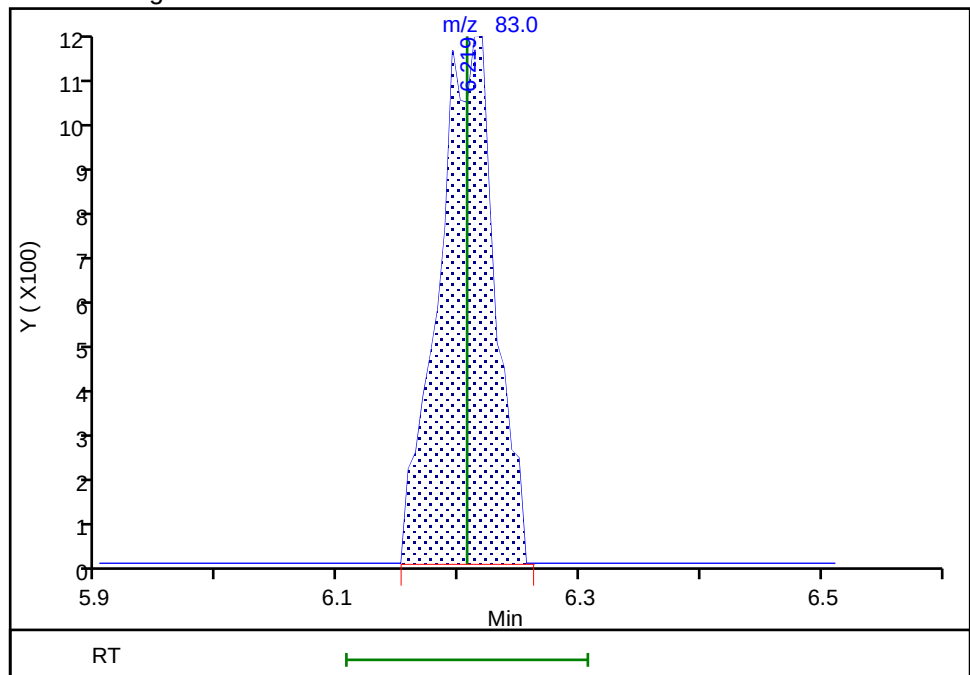
Not Detected
Expected RT: 6.21

Processing Integration Results



RT: 6.22
Area: 3668
Amount: 0.035374
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 03-Mar-2024 22:55:43 07:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

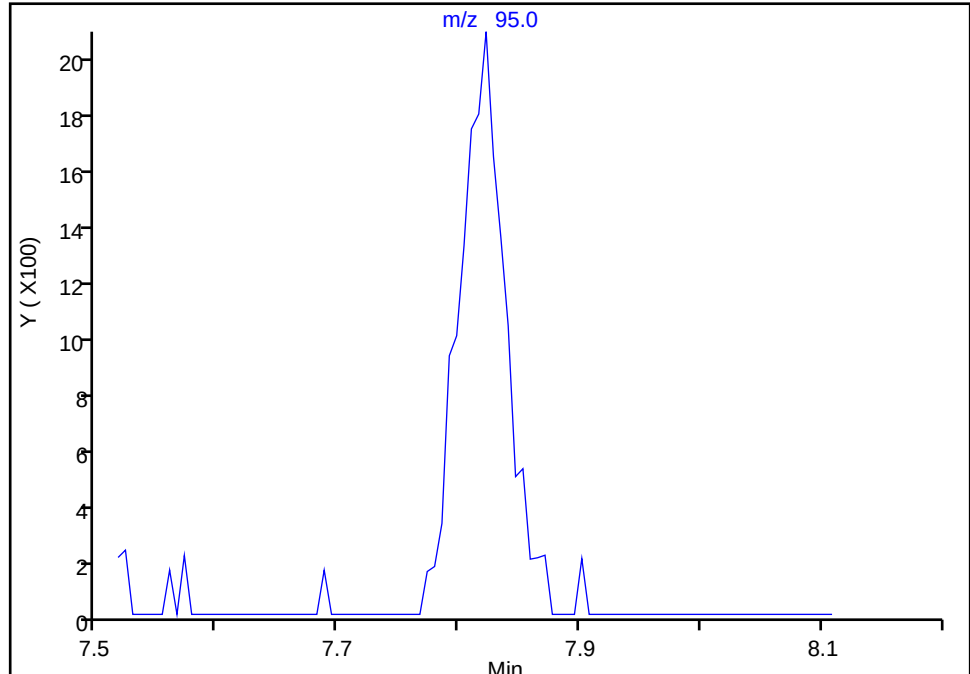
Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X13.D
Injection Date: 29-Feb-2024 16:55:30 Instrument ID: 10193
Lims ID: 410-161790-A-5 Lab Sample ID: 410-161790-5
Client ID: HD-COD-SW-13-0/1-0
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

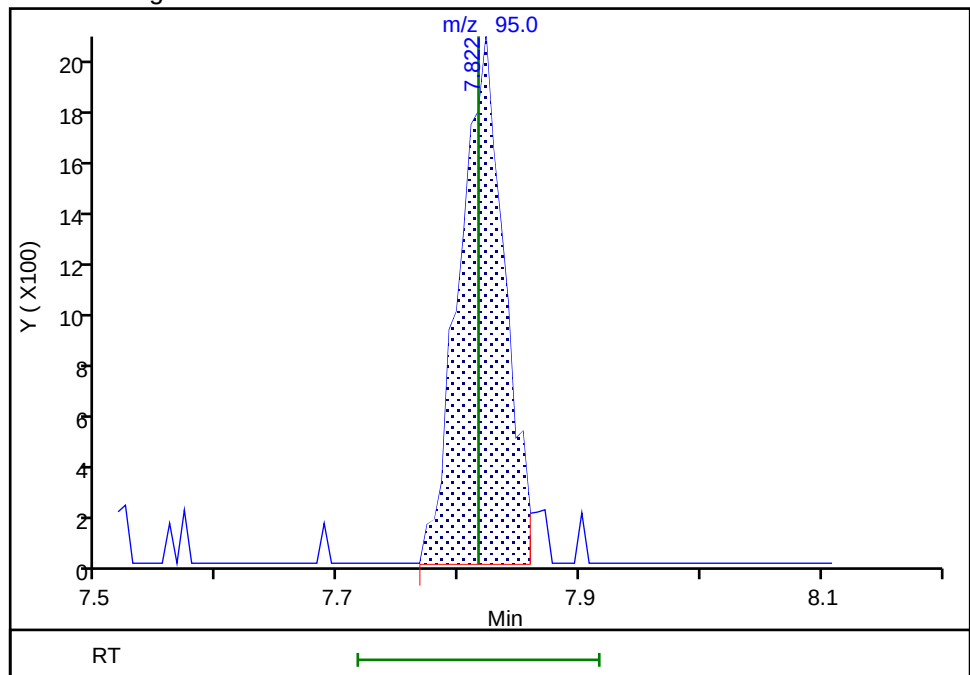
Not Detected
Expected RT: 7.82

Processing Integration Results



RT: 7.82
Area: 5346
Amount: 0.087054
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 03-Mar-2024 22:55:53 07:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-6

Matrix: Water

Lab File ID: CF29X14.D

Analysis Method: 8260D

Date Collected: 02/23/2024 11:59

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 17:17

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.: 478337

Units: ug/L

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	0.31	J	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	0.12	J	0.50	0.10
75-35-4	1,1-Dichloroethene	0.20	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	1.0
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	0.21	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	1.6		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	6.5	FH	0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-161790-6

Matrix: Water Lab File ID: CF29X14.D

Analysis Method: 8260D Date Collected: 02/23/2024 11:59

Sample wt/vol: 25 (mL) Date Analyzed: 02/29/2024 17:17

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.: 478337 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	1.6		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)	113		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X14.D
 Lims ID: 410-161790-A-6
 Client ID: HD-COD-SW-15-0/1-0
 Sample Type: Client
 Inject. Date: 29-Feb-2024 17:17:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107545-015
 Operator ID: knk41612 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 03-Mar-2024 22:57:14 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 22:57:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.787				ND	
2 Dichlorodifluoromethane	85		1.823				ND	
3 Chlorodifluoromethane	51		1.836				ND	U
4 Dimethyl ether	45		1.884				ND	7
5 Chloromethane	50		2.000				ND	
6 Vinyl chloride	62		2.104				ND	
7 Butadiene	39		2.110				ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.183				ND	
9 Bromomethane	94		2.402				ND	
10 Chloroethane	64		2.469				ND	7
11 Dichlorofluoromethane	67		2.701				ND	7
12 Trichlorofluoromethane	101		2.762				ND	
13 Pentane	43		2.768				ND	U
T 15 Vinyl bromide TIC	106		2.830				ND	
14 Ethyl ether	59		2.963				ND	
16 1,2-Dichloro-1,1,2-trifluoroethane	67		3.055				ND	7
T 19 Ethanol TIC	45	3.146	3.099	0.047	1	155	0.000737	
17 Acrolein	56		3.116				ND	7
18 1,1-Dichloroethene	96	3.238	3.238	0.000	95	9502	0.2024	
20 Acetone	43	3.274	3.262	0.012	93	5804	0.8729	
T 167 Isopropyl alcohol TIC	45	3.244	3.276	-0.032	1	125	0.000594	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.280				ND	
22 Iodomethane	142		3.408				ND	
24 Isopropyl alcohol	45		3.414				ND	U
23 Ethyl bromide	108		3.445				ND	
T 28 Acetonitrile TIC	41	3.439	3.477	-0.038	29	218	0.001036	
25 Carbon disulfide	76		3.500				ND	7
27 Acetonitrile	41		3.616				ND	7
26 Methyl acetate	43		3.640				ND	7
29 3-Chloro-1-propene	41		3.664				ND	
30 Methylene Chloride	84		3.835				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.835	3.841	-0.006	97	127025	50.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 2-Methyl-2-propanol	59		3.957				ND	
33 Acrylonitrile	53		4.146				ND	
34 Methyl tert-butyl ether	73	4.201	4.195	0.006	84	4751	0.0311	
35 trans-1,2-Dichloroethene	96		4.207				ND	7
36 Hexane	57		4.628				ND	
38 Vinyl acetate	43		4.859				ND	
37 1,1-Dichloroethane	63	4.878	4.865	0.013	94	12723	0.1241	
39 Isopropyl ether	45		4.932				ND	
40 2-Chloro-1,3-butadiene	53		4.975				ND	
41 Tert-butyl ethyl ether	59	5.719	5.469	0.250	31	2724	0.0150	
42 2-Butanone (MEK)	43		5.682				ND	7
43 cis-1,2-Dichloroethene	96	5.719	5.713	0.006	79	103770	1.65	
44 2,2-Dichloropropane	77		5.731				ND	
46 Ethyl acetate	43		5.762				ND	7
45 Propionitrile	54		5.780				ND	
47 Methacrylonitrile	67		5.999				ND	
51 Methyl acrylate	55		6.013				ND	
48 Chlorobromomethane	128		6.048				ND	
49 Tetrahydrofuran	71		6.054				ND	
S 52 1,2-Dichloroethene, Total	100				0		1.65	
50 Chloroform	83	6.207	6.207	0.000	92	21408	0.2054	
\$ 54 Dibromofluoromethane (Surr)	113	6.426	6.426	0.000	94	502051	10.7	
53 1,1,1-Trichloroethane	97	6.426	6.432	-0.006	51	26903	0.3106	
55 Cyclohexane	56		6.530				ND	
56 Carbon tetrachloride	117	6.633	6.639	-0.006	32	2909	0.0381	
57 1,1-Dichloropropene	75		6.645				ND	
62 1-Chlorobutane	56		6.781				ND	
58 Isobutyl alcohol	41		6.834				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.883	6.883	0.000	99	107200	11.3	
60 Benzene	78		6.914				ND	
61 1,2-Dichloroethane	62		6.987				ND	
63 Isopropyl acetate	43		7.024				ND	
64 Tert-amyl methyl ether	73		7.115				ND	
* 65 Fluorobenzene (IS)	96	7.334	7.328	0.006	99	2103917	10.0	
66 n-Heptane	43		7.347				ND	7
67 n-Butanol	56		7.737				ND	
68 Trichloroethene	95	7.816	7.816	0.000	96	95740	1.55	
69 Methylcyclohexane	83		8.121				ND	
70 1,2-Dichloropropane	63		8.157				ND	
71 2-ethoxy-2-methyl butane	87		8.176				ND	
74 1,4-Dioxane	88		8.255				ND	
73 Methyl methacrylate	69		8.255				ND	
72 Dibromomethane	93		8.261				ND	
75 n-Propyl acetate	61		8.353				ND	
76 Dichlorobromomethane	83		8.511				ND	
77 2-Nitropropane	41		8.804				ND	
79 2-Chloroethyl vinyl ether	63		8.901				ND	
78 1-Bromo-2-chloroethane	63		8.913				ND	
81 Chloroacetonitrile	75		9.067				ND	
80 cis-1,3-Dichloropropene	75		9.084				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.285				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.413	9.413	0.000	93	2140046	10.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
84 Toluene	92		9.492				ND	7
85 trans-1,3-Dichloropropene	75		9.779				ND	
86 Ethyl methacrylate	69		9.852				ND	
87 1,1,2-Trichloroethane	97	9.986	9.986	0.000	1	1328	0.0291	
T 103 2-Chloroethanol TIC	44	10.090	10.000	0.090	1	413	0.001963	
T 101 Ethylene oxide TIC	43		10.000				ND	
T 99 2,3-Dibromopropene TIC	119	9.968	10.000	-0.032	1	68	0.000323	
T 96 Nitrobenzene TIC	77	9.992	10.000	-0.008	1	199	0.000946	
T 97 Decamethylcyclopentasiloxane TIC	73	9.438	10.000	-0.562	1	63	0.000299	
T 105 Chloroacetaldehyde TIC	50	9.724	10.000	-0.276	1	918	0.004363	
T 102 Methyl acrylate TIC	55	10.340	10.000	0.340	1	125	0.000594	
T 104 Epibromohydrin TIC	57	10.334	10.000	0.334	1	63	0.000299	
T 94 2,3-Dibromo-1-propanol TIC	57	10.334	10.000	0.334	1	63	0.000299	
T 95 Vinyl acetate (TIC)	43	10.346	10.000	0.346	15	207	0.000984	
T 92 3-Chloro-1,2-propanediol TIC	43		10.000				ND	
T 100 2-Bromo-3-chloropropene TIC	75	9.962	10.000	-0.038	1	55	0.000261	
T 98 Epichlorohydrin TIC	57		10.000				ND	
T 90 2-Bromoethanol TIC	45	9.980	10.000	-0.020	1	66	0.000314	
T 93 Monochloroacetic acid TIC	50	9.724	10.000	-0.276	5	918	0.004363	
T 91 Octamethylcyclotetrasiloxane TIC	78	12.053	10.000	2.053	90	12640	0.0601	
S 107 1,3-Dichloropropene, Total	100		10.060				ND	7
88 Tetrachloroethene	166	10.072	10.072	0.000	97	484509	6.53	
89 1,3-Dichloropropane	76		10.157				ND	
106 2-Hexanone	43		10.224				ND	
109 n-Butyl acetate	43		10.358				ND	
108 Chlorodibromomethane	129		10.376				ND	
110 Ethylene Dibromide	107		10.486				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.943	10.943	0.000	84	1672010	10.0	
112 1-Chlorohexane	91		10.962				ND	7
113 Chlorobenzene	112		10.968				ND	
114 1,1,1,2-Tetrachloroethane	131		11.059				ND	7
115 Ethylbenzene	91		11.065				ND	7
116 m-Xylene & p-Xylene	106		11.181				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.523				ND	7
119 Styrene	104		11.541				ND	7
120 Bromoform	173		11.693				ND	7
121 Isopropylbenzene	105		11.833				ND	
122 cis-1,4-Dichloro-2-butene	88		11.895				ND	
123 Cyclohexanone	55		11.919				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	97	758396	8.94	
126 1,1,2,2-Tetrachloroethane	83		12.090				ND	
125 Bromobenzene	156		12.096				ND	
127 trans-1,4-Dichloro-2-butene	53		12.114				ND	
128 1,2,3-Trichloropropane	110		12.132				ND	
129 N-Propylbenzene	91		12.169				ND	7
130 2-Chlorotoluene	126		12.248				ND	
131 1,3,5-Trimethylbenzene	105		12.315				ND	7
132 4-Chlorotoluene	126		12.339				ND	
133 tert-Butylbenzene	134		12.559				ND	
134 Pentachloroethane	167		12.589				ND	
135 1,2,4-Trimethylbenzene	105		12.602				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
136 sec-Butylbenzene	105		12.730				ND	
137 1,3-Dichlorobenzene	146		12.821				ND	7
138 4-Isopropyltoluene	119		12.839				ND	7
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.876	0.006	93	953595	10.0	
140 1,4-Dichlorobenzene	146		12.894				ND	7
141 1,2,3-Trimethylbenzene	120		12.913				ND	7
142 Benzyl chloride	126		12.980				ND	7
145 p-Diethylbenzene	119		13.114				ND	
143 n-Butylbenzene	92		13.132				ND	
144 1,2-Dichlorobenzene	146		13.162				ND	
T 146 Hexachloroethane TIC	117		13.444				ND	
147 Hexachloroethane	117		13.444				ND	
148 1,2-Dibromo-3-Chloropropane	155		13.717				ND	
149 1,3,5-Trichlorobenzene	180		13.839				ND	
150 1,2,4-Trichlorobenzene	180		14.272				ND	
151 Hexachlorobutadiene	225		14.357				ND	
152 Naphthalene	128		14.455				ND	7
153 1,2,3-Trichlorobenzene	180		14.595				ND	
154 2-Methylnaphthalene	142		15.211				ND	
155 Dodecane	57		0.000				ND	
156 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
157 tert-Butyl Formate	1		0.000				ND	
158 2-Bromo-1-chloropropane	1		0.000				ND	
159 1-Chloropropane	1		0.000				ND	
160 1,1-Dichloroacetone	1		0.000				ND	
161 Methylal	1		0.000				ND	
162 Propene oxide	1		0.000				ND	
163 t-Amyl alcohol	1		0.000				ND	
164 Ethanol	45		0.000				ND	
165 n-Decane	57		0.000				ND	
166 1-Bromo-3-Chloropropane	1		0.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00084

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 03-Mar-2024 22:57:15

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X14.D

Injection Date: 29-Feb-2024 17:17:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: 410-161790-A-6

Lab Sample ID: 410-161790-6

Worklist Smp#: 15

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

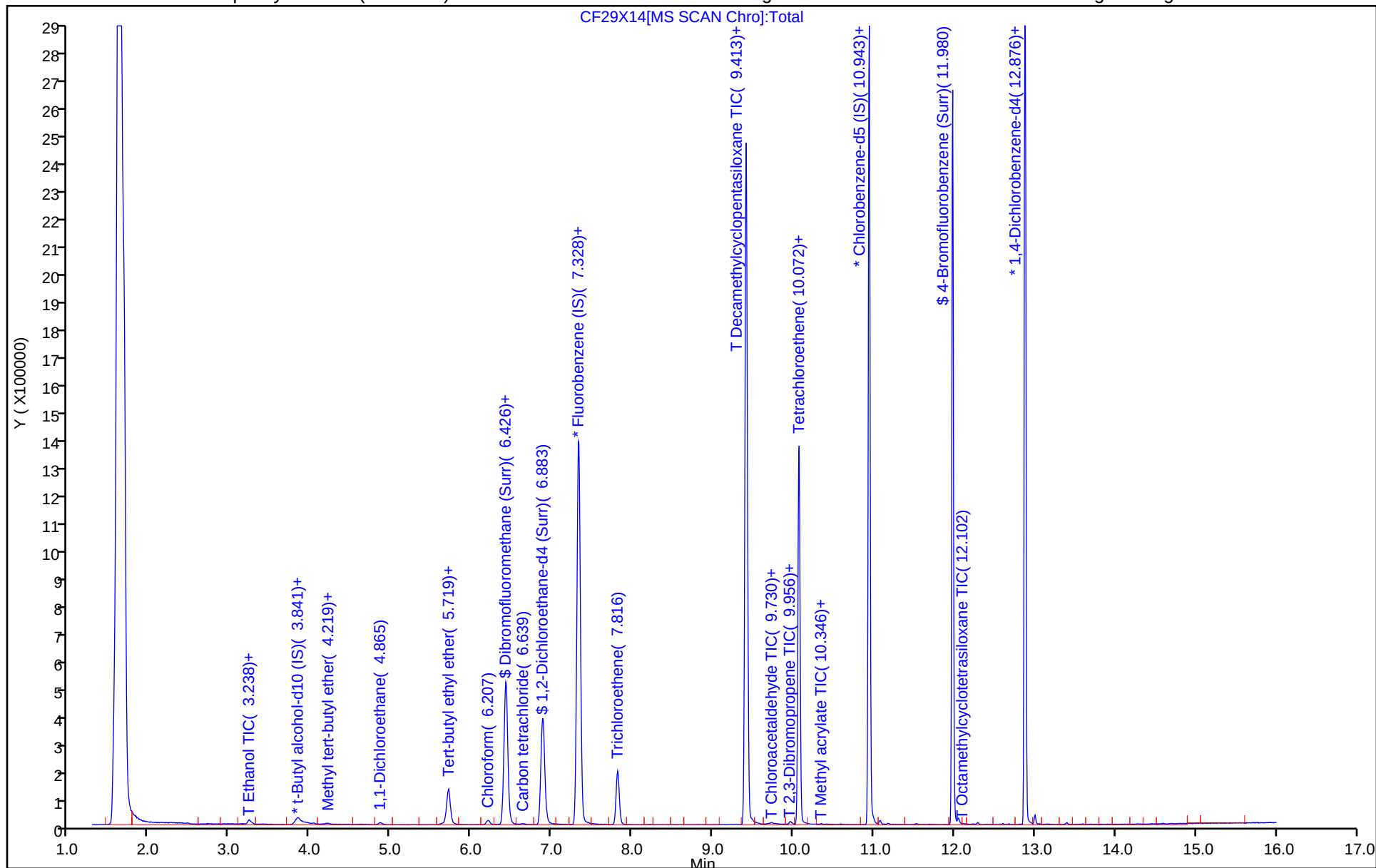
ALS Bottle#: 14

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X14.D
Lims ID: 410-161790-A-6
Client ID: HD-COD-SW-15-0/1-0
Sample Type: Client
Inject. Date: 29-Feb-2024 17:17:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107545-015
Operator ID: knk41612 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2024 22:57:14 Calib Date: 11-Dec-2023 23:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 22:57:14

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.7	106.99
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.3	112.88
\$ 83 Toluene-d8 (Surr)	10.0	10.1	101.25
\$ 124 4-Bromofluorobenzene (Surr)	10.0	8.94	89.35

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X14.D

Injection Date: 29-Feb-2024 17:17:30

Instrument ID: 10193

Lims ID: 410-161790-A-6

Lab Sample ID: 410-161790-6

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

Operator ID: knk41612

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

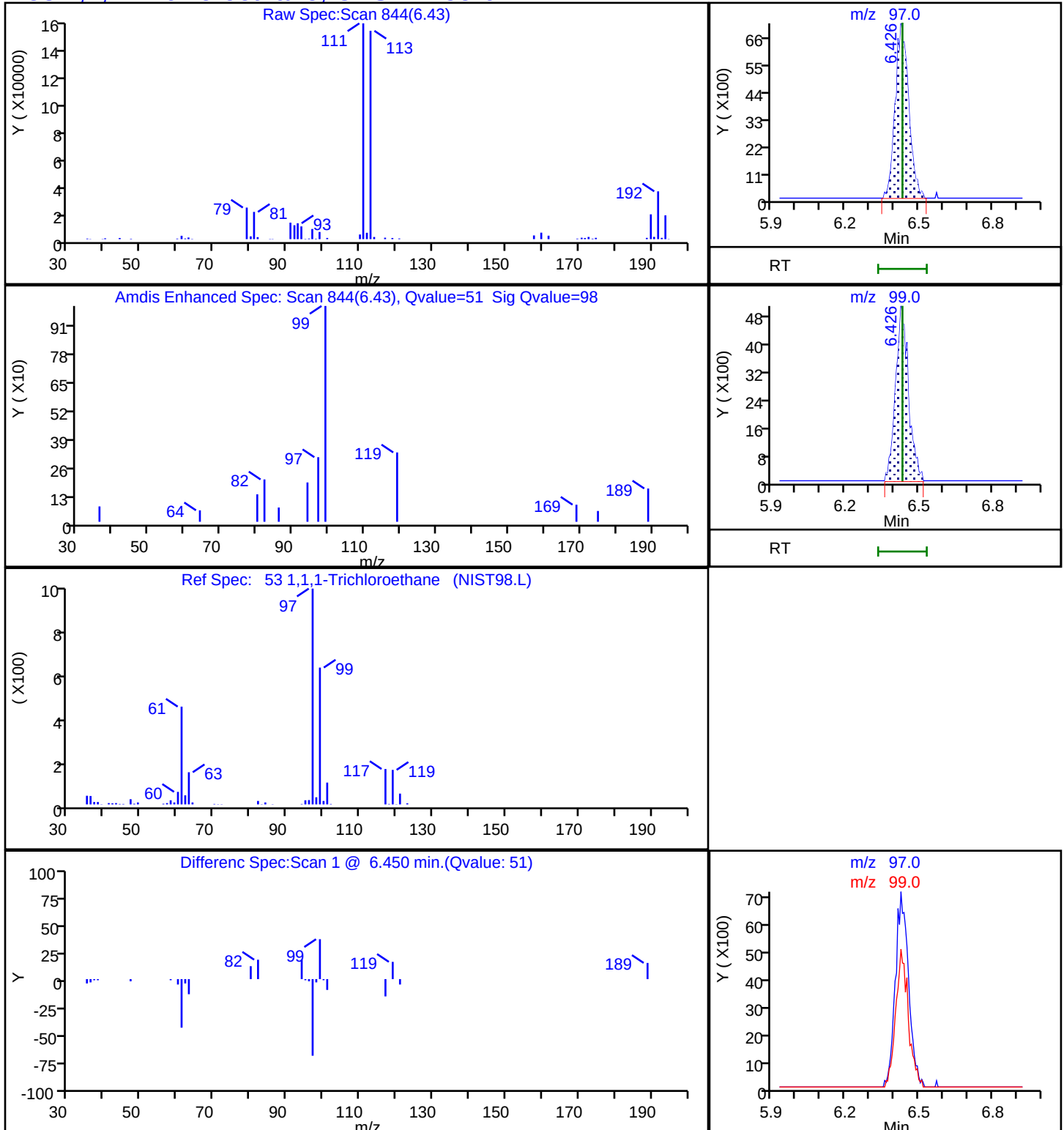
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X14.D

Injection Date: 29-Feb-2024 17:17:30

Instrument ID: 10193

Lims ID: 410-161790-A-6

Lab Sample ID: 410-161790-6

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

Operator ID: knk41612

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

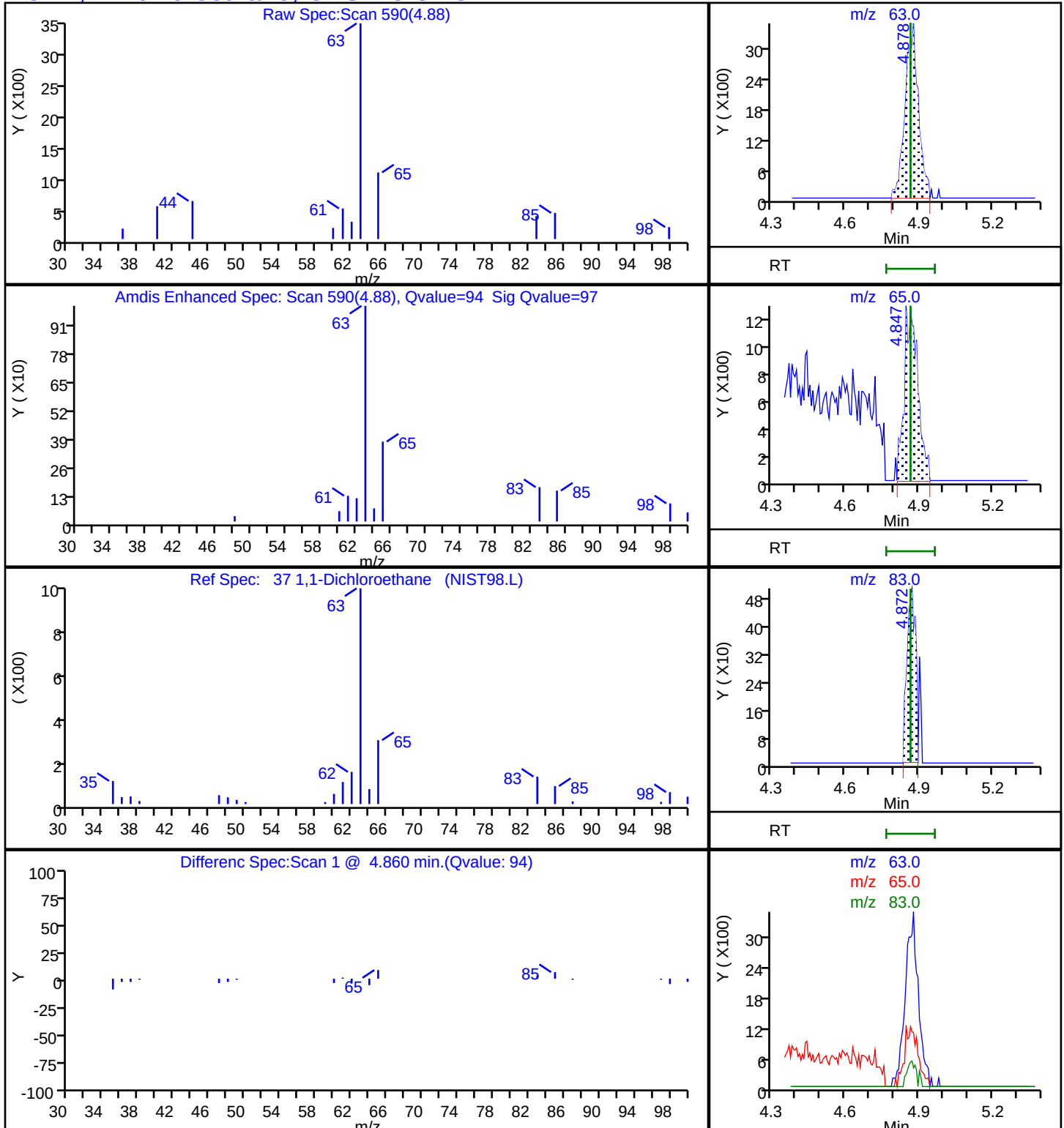
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X14.D

Injection Date: 29-Feb-2024 17:17:30

Instrument ID: 10193

Lims ID: 410-161790-A-6

Lab Sample ID: 410-161790-6

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

Operator ID: knk41612

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

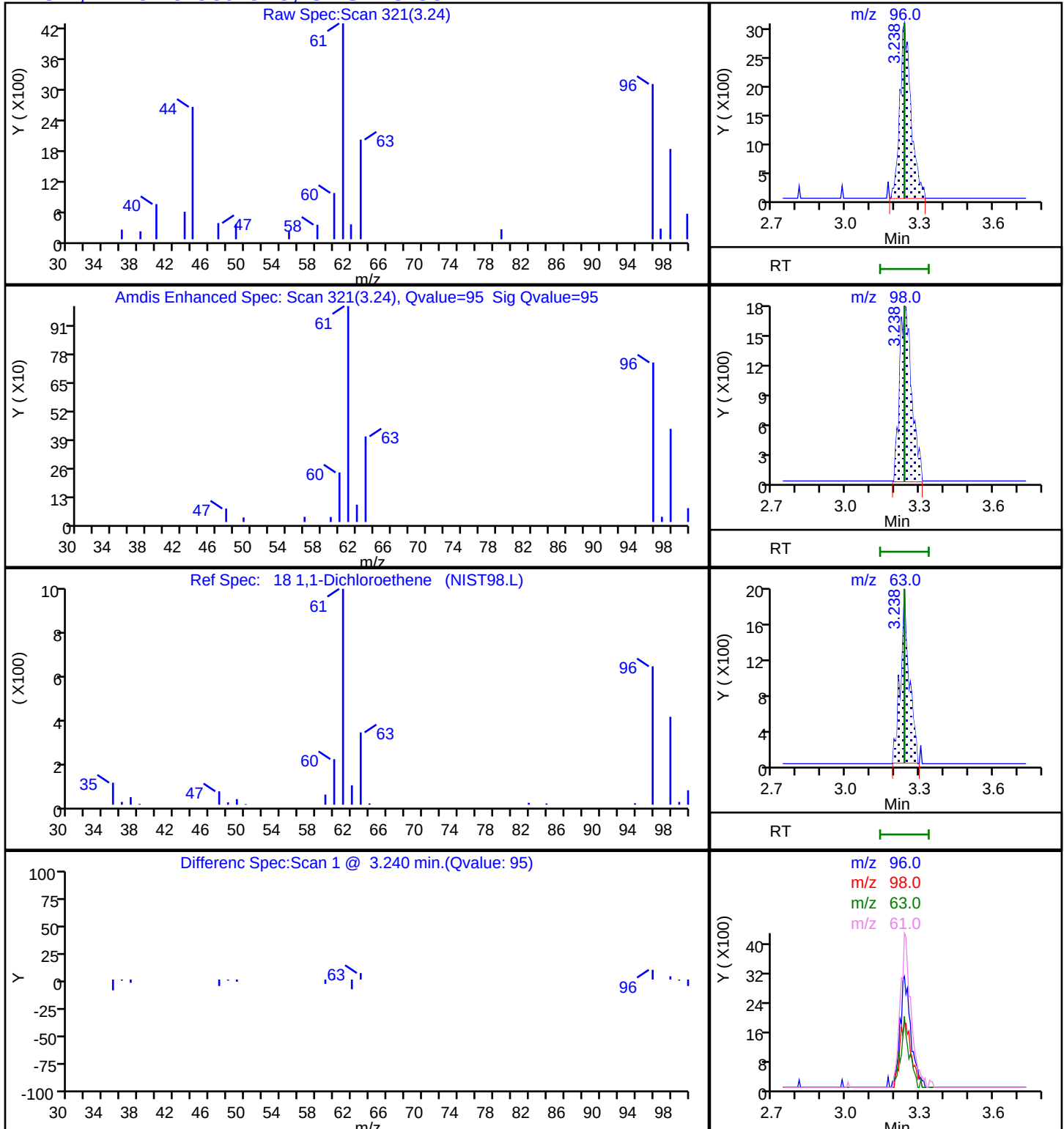
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X14.D

Injection Date: 29-Feb-2024 17:17:30

Instrument ID: 10193

Lims ID: 410-161790-A-6

Lab Sample ID: 410-161790-6

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

Operator ID: knk41612

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

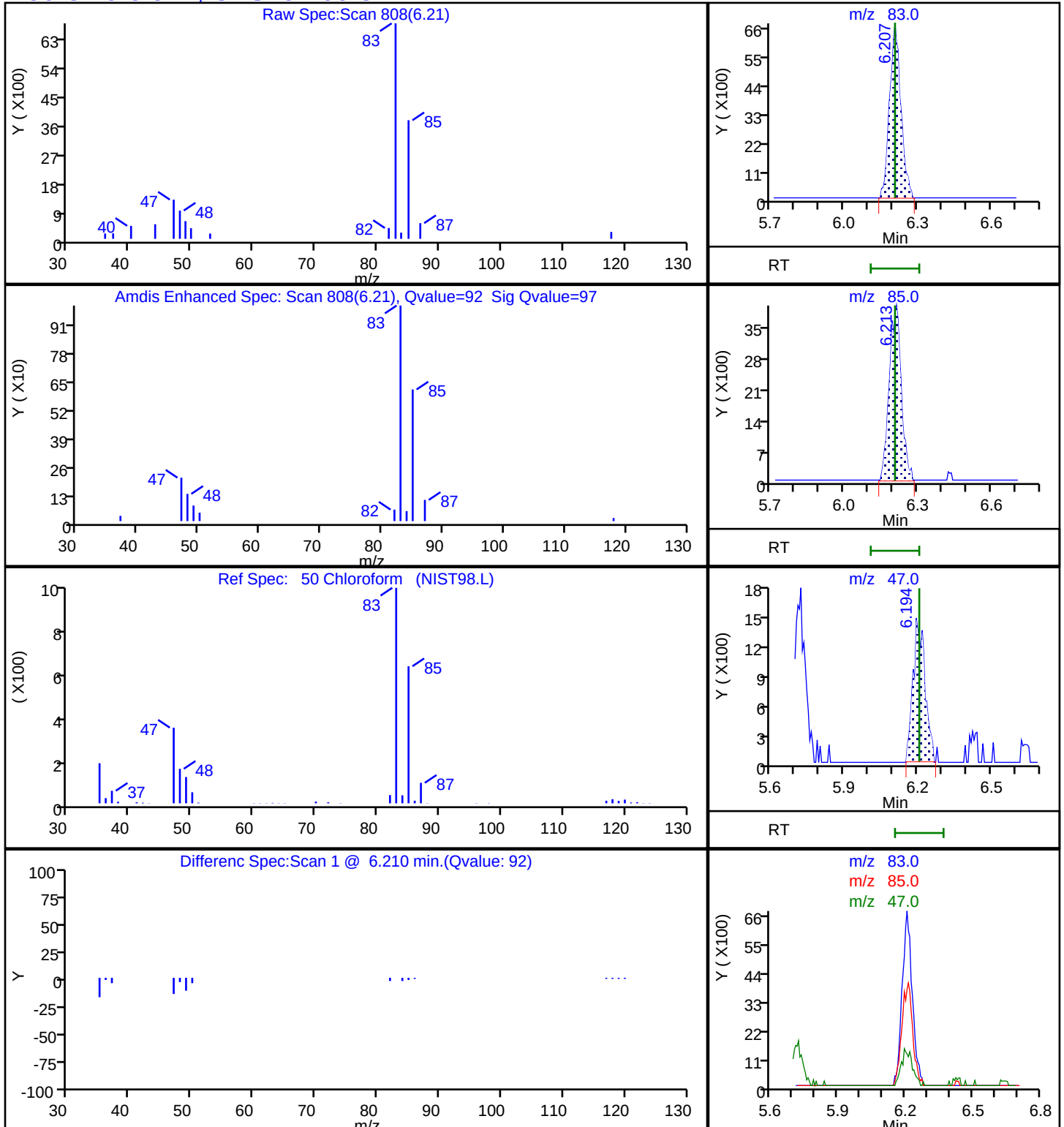
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X14.D

Injection Date: 29-Feb-2024 17:17:30

Instrument ID: 10193

Lims ID: 410-161790-A-6

Lab Sample ID: 410-161790-6

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

Operator ID: knk41612

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

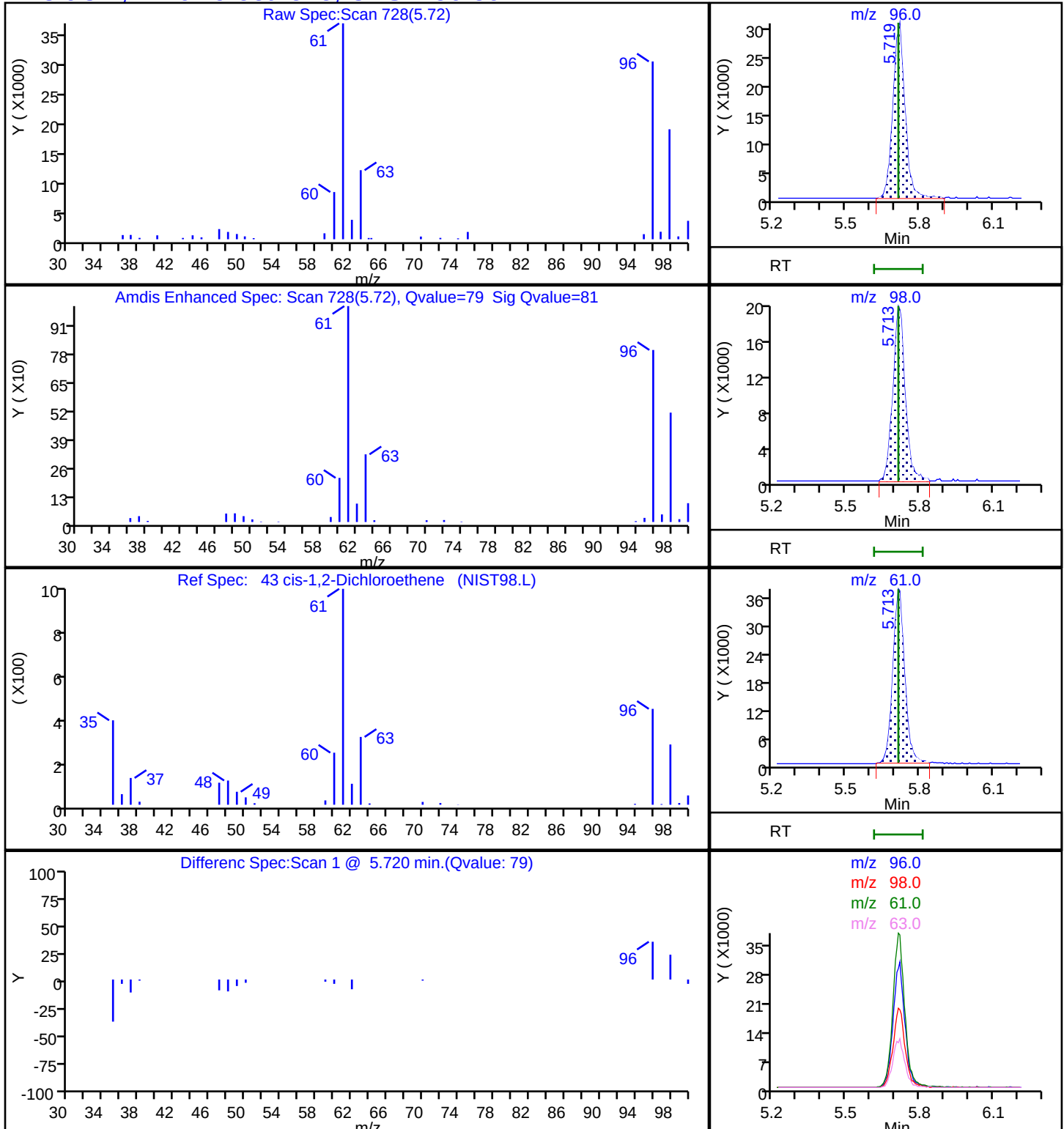
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X14.D

Injection Date: 29-Feb-2024 17:17:30

Instrument ID: 10193

Lims ID: 410-161790-A-6

Lab Sample ID: 410-161790-6

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

Operator ID: knk41612

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

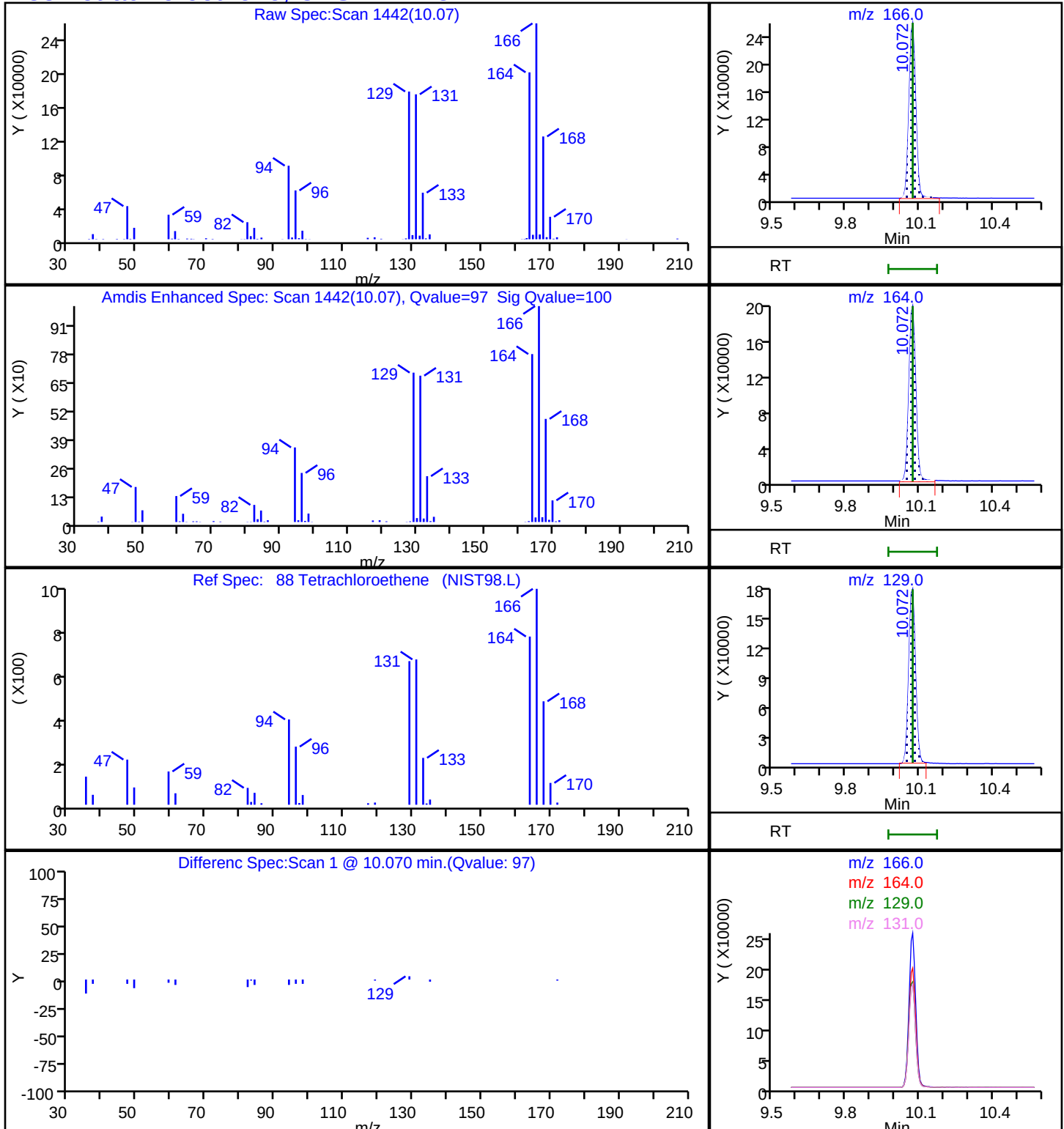
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

88 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X14.D

Injection Date: 29-Feb-2024 17:17:30

Instrument ID: 10193

Lims ID: 410-161790-A-6

Lab Sample ID: 410-161790-6

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

Operator ID: knk41612

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

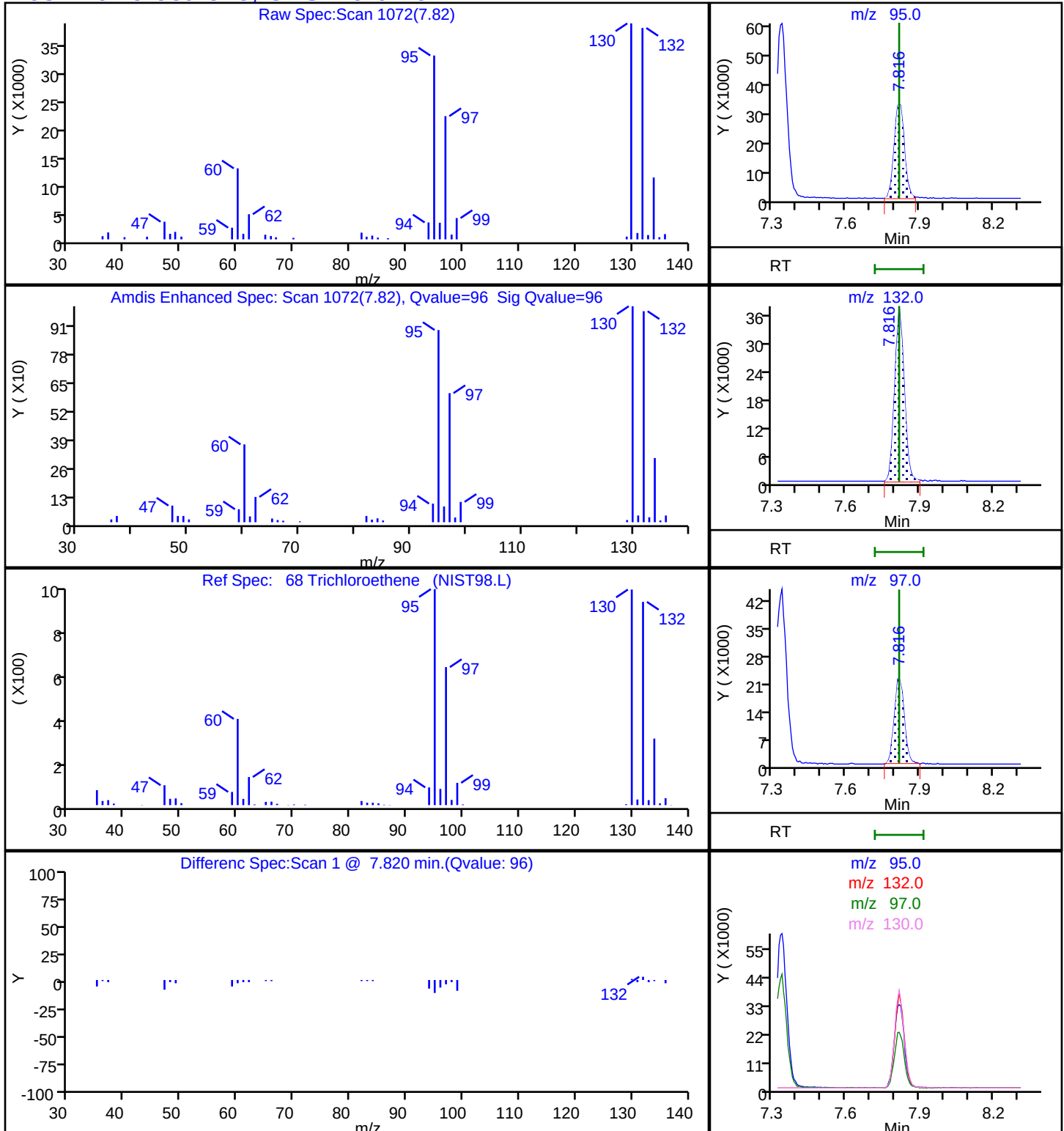
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-7

Matrix: Water

Lab File ID: CF29X17.D

Analysis Method: 8260D

Date Collected: 02/23/2024 10:37

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 18:24

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.: 478337

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.5	J	5.0	1.0
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	0.65		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-7

Matrix: Water

Lab File ID: CF29X17.D

Analysis Method: 8260D

Date Collected: 02/23/2024 10:37

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 18:24

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.: 478337

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	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)	111		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		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\10193\20240229-107545.b\CF29X17.D
 Lims ID: 410-161790-A-7
 Client ID: HD-COD-SW-16-0/1-0
 Sample Type: Client
 Inject. Date: 29-Feb-2024 18:24:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107545-018
 Operator ID: knk41612 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 03-Mar-2024 23:00:58 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 23:00:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.000	2.000	0.000	90	3793	0.0444	
6 Vinyl chloride	62		2.104				ND	
9 Bromomethane	94		2.402				ND	7
10 Chloroethane	64		2.469				ND	
18 1,1-Dichloroethene	96		3.238				ND	7
20 Acetone	43	3.262	3.262	0.000	99	12880	1.54	
25 Carbon disulfide	76		3.500				ND	7
30 Methylene Chloride	84		3.835				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.847	3.841	0.006	97	159306	50.0	
34 Methyl tert-butyl ether	73		4.195				ND	
35 trans-1,2-Dichloroethene	96		4.207				ND	
37 1,1-Dichloroethane	63		4.865				ND	7
42 2-Butanone (MEK)	43		5.682				ND	7
43 cis-1,2-Dichloroethene	96	5.725	5.713	0.012	80	4228	0.0659	a
48 Chlorobromomethane	128		6.048				ND	
50 Chloroform	83	6.213	6.207	0.006	90	3381	0.0319	M
\$ 54 Dibromofluoromethane (Surr)	113	6.426	6.426	0.000	94	513763	10.8	
53 1,1,1-Trichloroethane	97	6.450	6.432	0.018	55	3426	0.0388	
56 Carbon tetrachloride	117		6.639				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.883	6.883	0.000	99	107371	11.1	
60 Benzene	78	6.902	6.914	-0.012	79	4525	0.0186	a
61 1,2-Dichloroethane	62		6.987				ND	
* 65 Fluorobenzene (IS)	96	7.328	7.328	0.000	99	2141921	10.0	
68 Trichloroethene	95	7.816	7.816	0.000	94	4926	0.0784	
70 1,2-Dichloropropane	63		8.157				ND	
76 Dichlorobromomethane	83		8.511				ND	7
80 cis-1,3-Dichloropropene	75		9.084				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.285				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.413	9.413	0.000	93	2199689	10.2	
84 Toluene	92	9.499	9.492	0.007	95	4498	0.0275	
85 trans-1,3-Dichloropropene	75		9.779				ND	7
87 1,1,2-Trichloroethane	97		9.986				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	10.072	10.072	0.000	97	49053	0.6502	
106 2-Hexanone	43		10.224				ND	7
108 Chlorodibromomethane	129		10.376				ND	7
110 Ethylene Dibromide	107		10.486				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.943	10.943	0.000	84	1700466	10.0	
113 Chlorobenzene	112		10.968				ND	
114 1,1,1,2-Tetrachloroethane	131		11.059				ND	
115 Ethylbenzene	91		11.065				ND	7
116 m-Xylene & p-Xylene	106		11.181				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.523				ND	7
119 Styrene	104		11.541				ND	7
120 Bromoform	173		11.693				ND	7
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	96	768346	8.90	
126 1,1,2,2-Tetrachloroethane	83		12.090				ND	7
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.876	0.006	93	984895	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00084

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 03-Mar-2024 23:00:59

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X17.D

Injection Date: 29-Feb-2024 18:24:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: 410-161790-A-7

Lab Sample ID: 410-161790-7

Worklist Smp#: 18

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

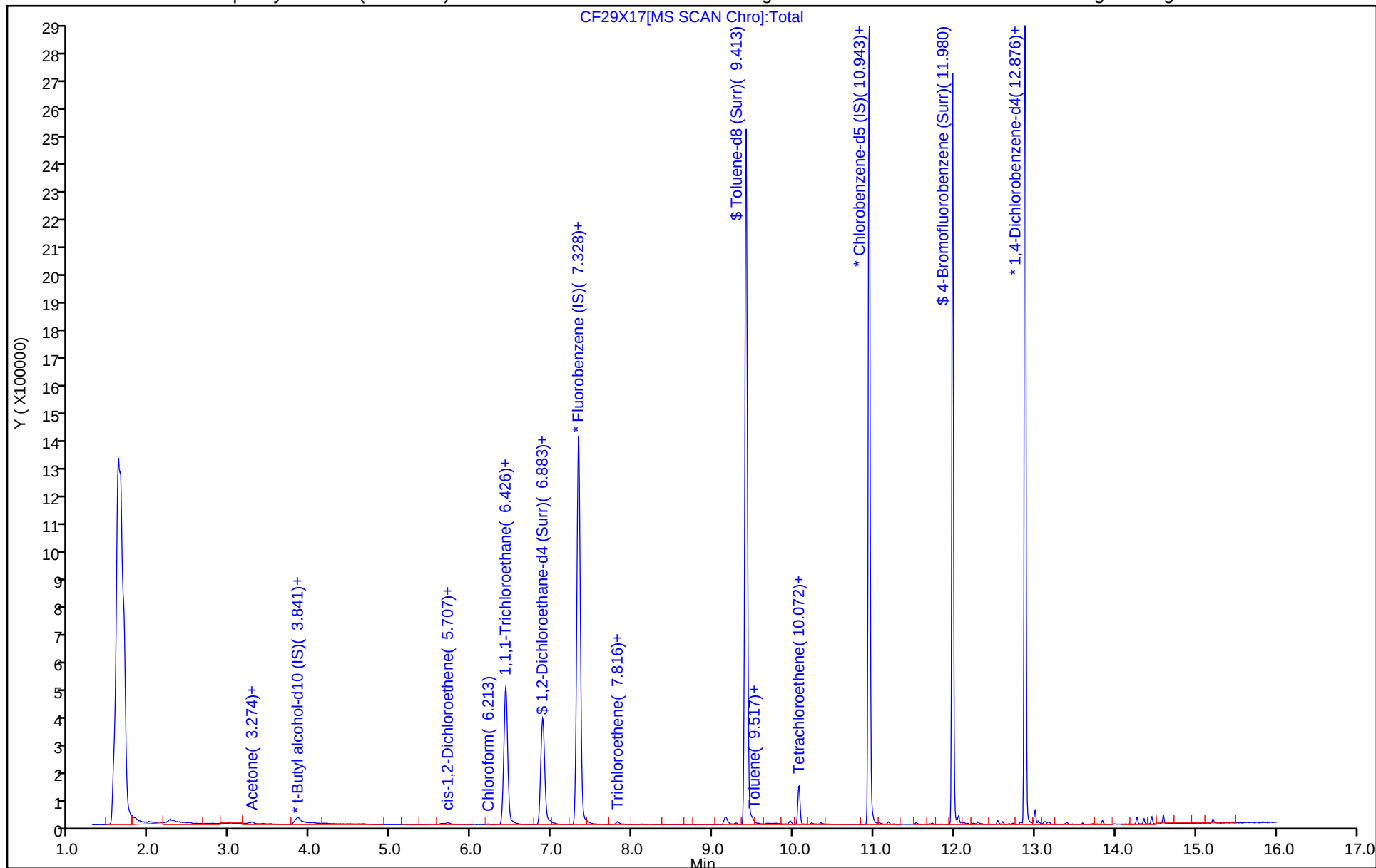
ALS Bottle#: 17

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X17.D
Lims ID: 410-161790-A-7
Client ID: HD-COD-SW-16-0/1-0
Sample Type: Client
Inject. Date: 29-Feb-2024 18:24:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107545-018
Operator ID: knk41612 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2024 23:00:58 Calib Date: 11-Dec-2023 23:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 23:00:58

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.8	107.54
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.1	111.05
\$ 83 Toluene-d8 (Surr)	10.0	10.2	102.33
\$ 124 4-Bromofluorobenzene (Surr)	10.0	8.90	89.01

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X17.D

Injection Date: 29-Feb-2024 18:24:30

Instrument ID: 10193

Lims ID: 410-161790-A-7

Lab Sample ID: 410-161790-7

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

Operator ID: knk41612

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

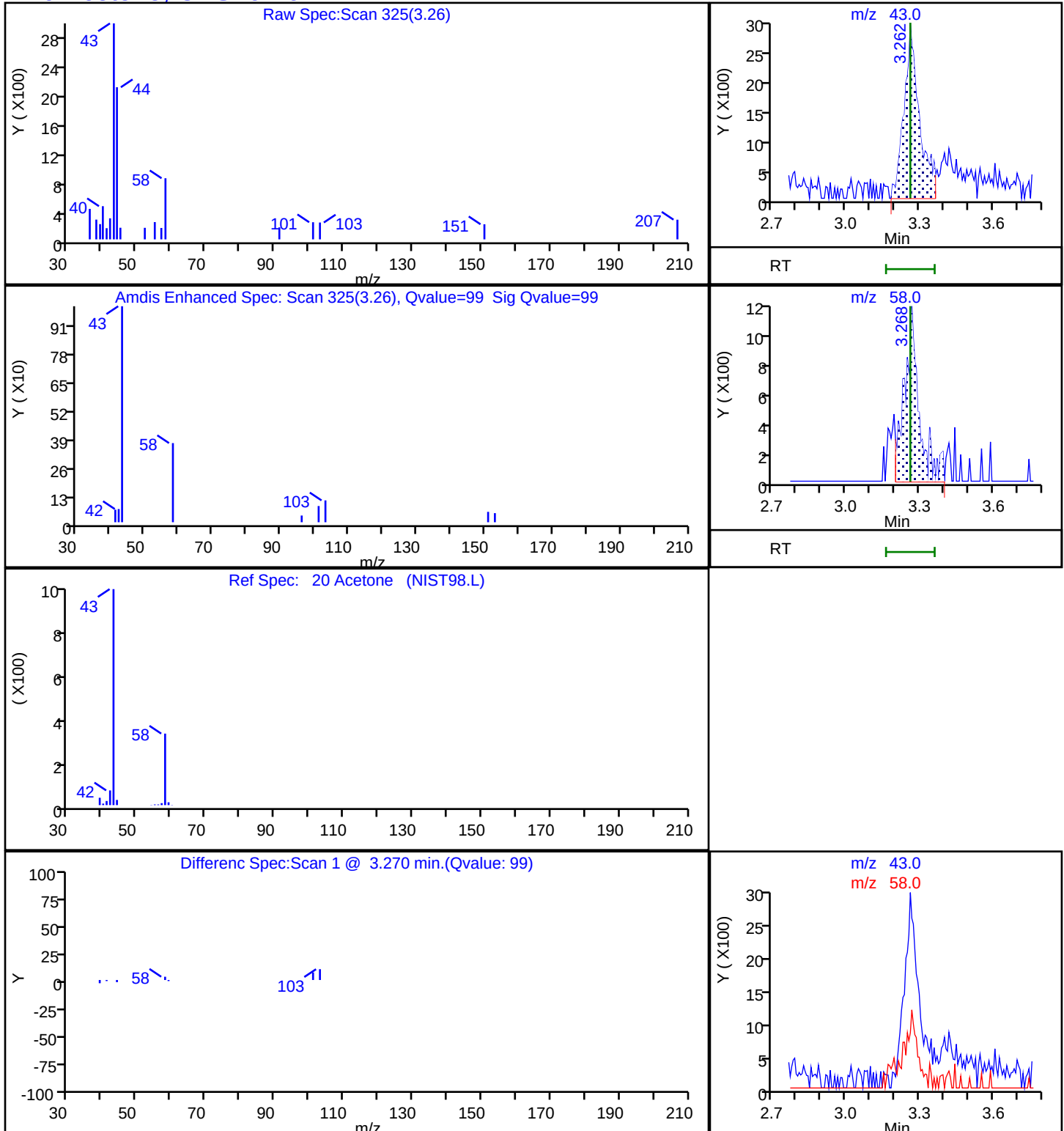
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X17.D

Injection Date: 29-Feb-2024 18:24:30

Instrument ID: 10193

Lims ID: 410-161790-A-7

Lab Sample ID: 410-161790-7

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

Operator ID: knk41612

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

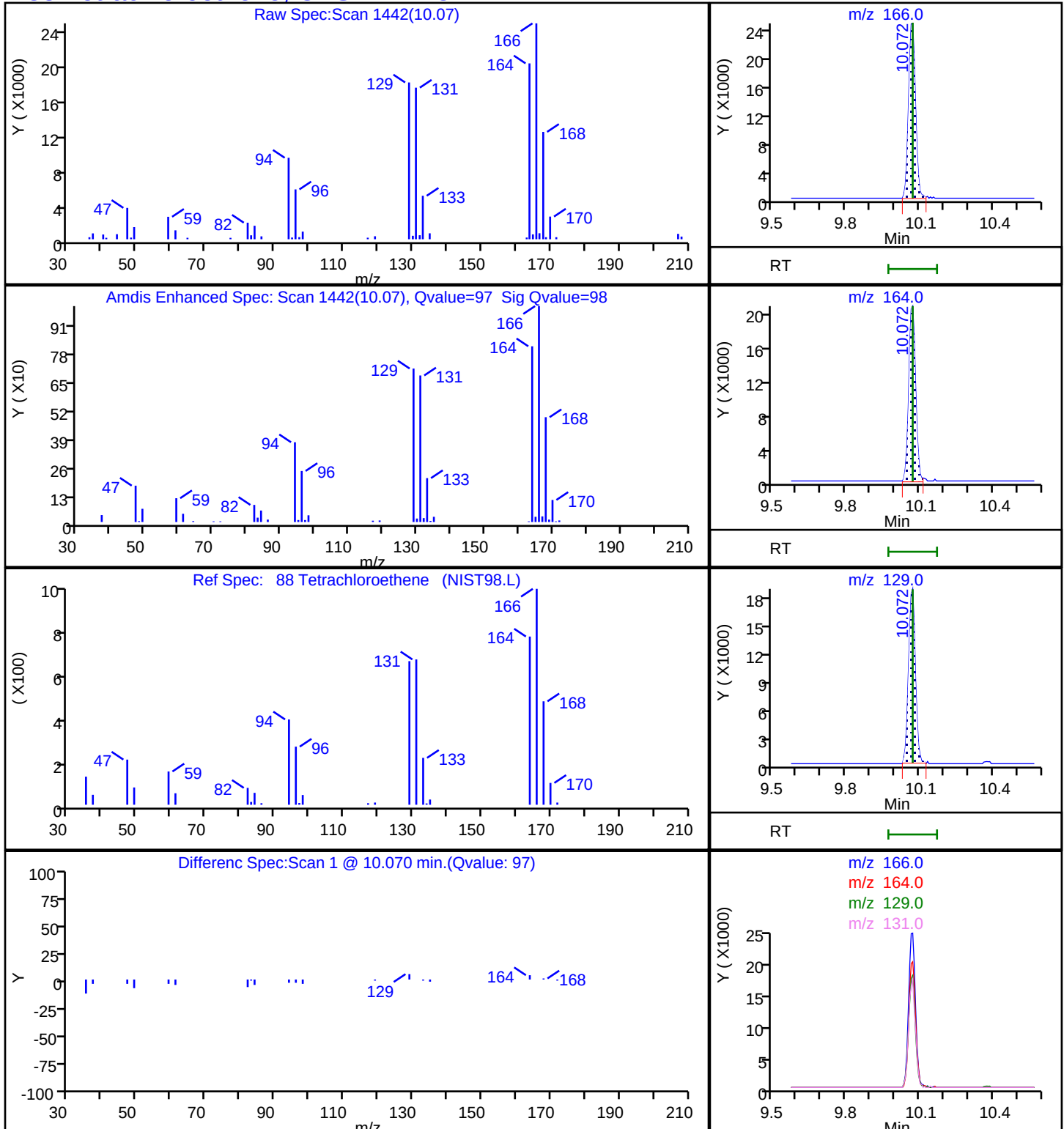
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

88 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

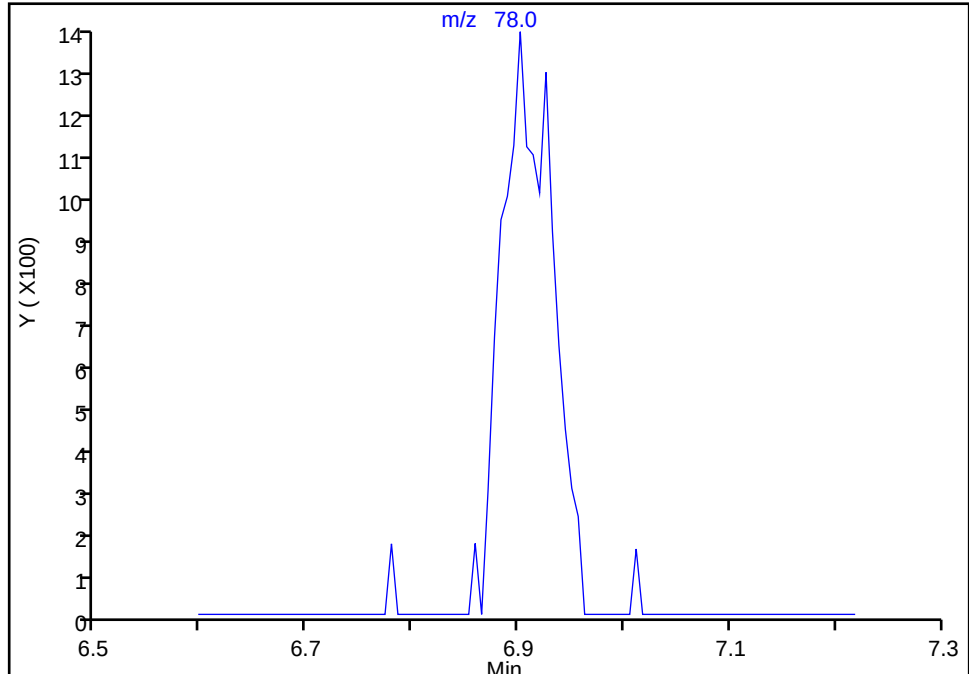
Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X17.D
Injection Date: 29-Feb-2024 18:24:30 Instrument ID: 10193
Lims ID: 410-161790-A-7 Lab Sample ID: 410-161790-7
Client ID: HD-COD-SW-16-0/1-0
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

60 Benzene, CAS: 71-43-2

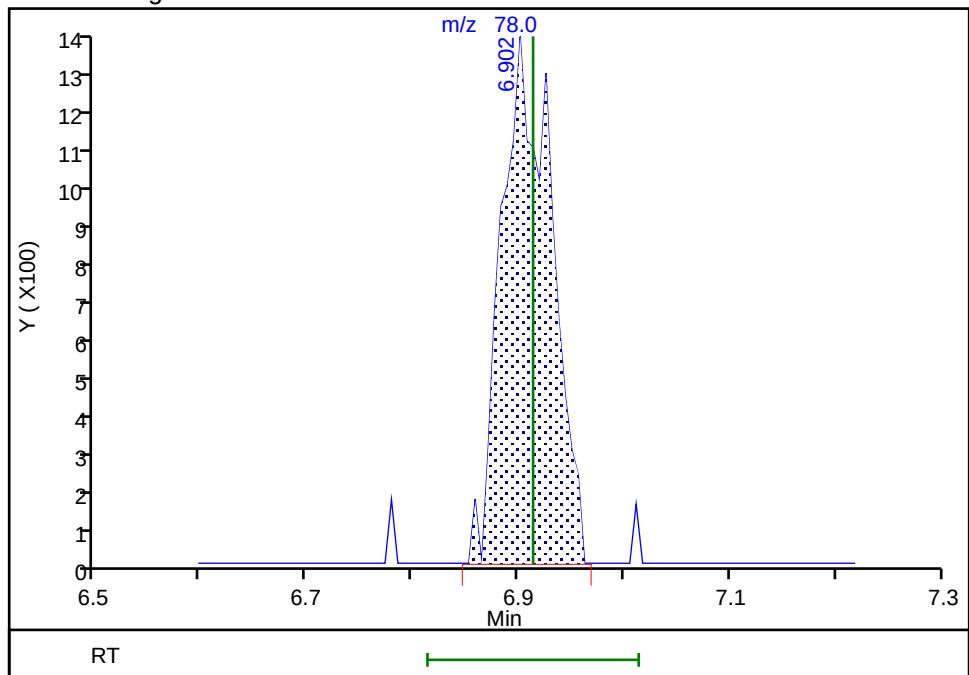
Signal: 1

Not Detected
Expected RT: 6.91

Processing Integration Results



Manual Integration Results



RT: 6.90
Area: 4525
Amount: 0.018616
Amount Units: ug/l

Reviewer: N9NA, 03-Mar-2024 23:00:44 07:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

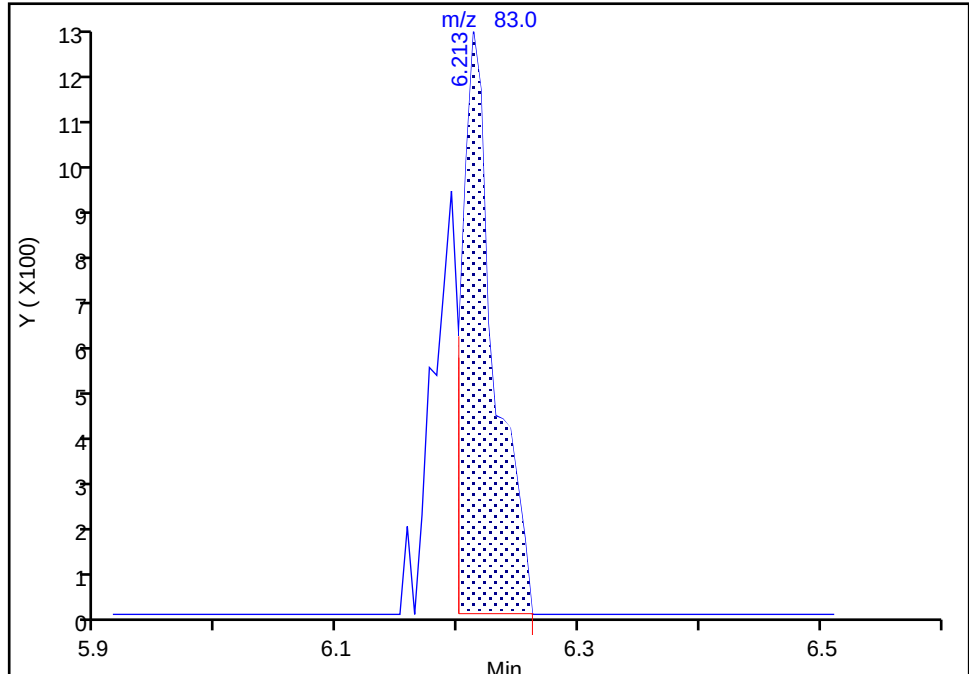
Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X17.D
Injection Date: 29-Feb-2024 18:24:30 Instrument ID: 10193
Lims ID: 410-161790-A-7 Lab Sample ID: 410-161790-7
Client ID: HD-COD-SW-16-0/1-0
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

50 Chloroform, CAS: 67-66-3

Signal: 1

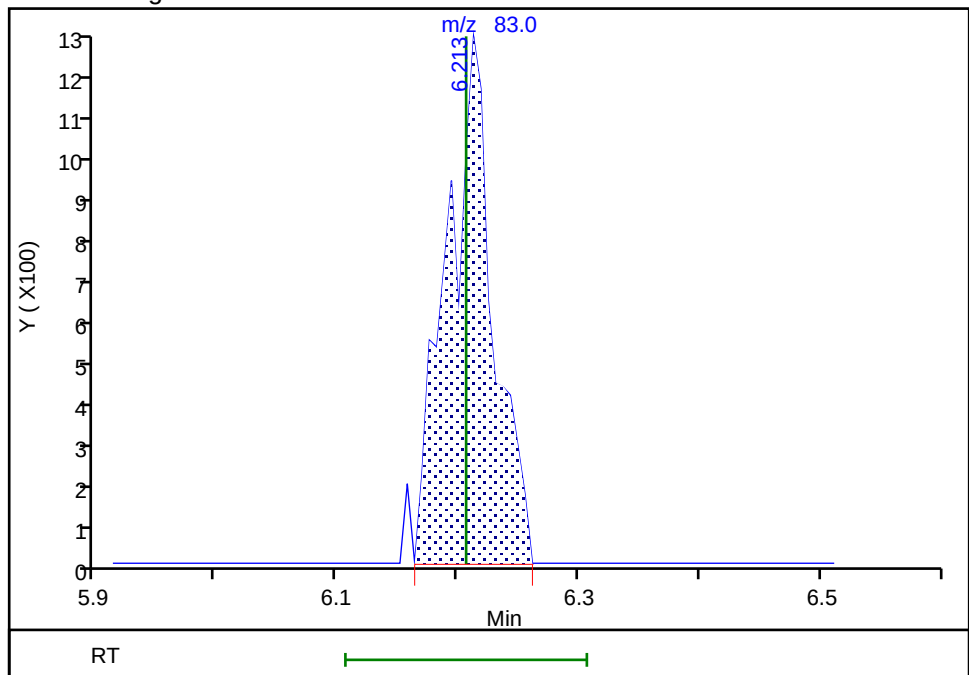
RT: 6.21
Area: 2319
Amount: 0.021853
Amount Units: ug/l

Processing Integration Results



RT: 6.21
Area: 3381
Amount: 0.031861
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 03-Mar-2024 23:00:32 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

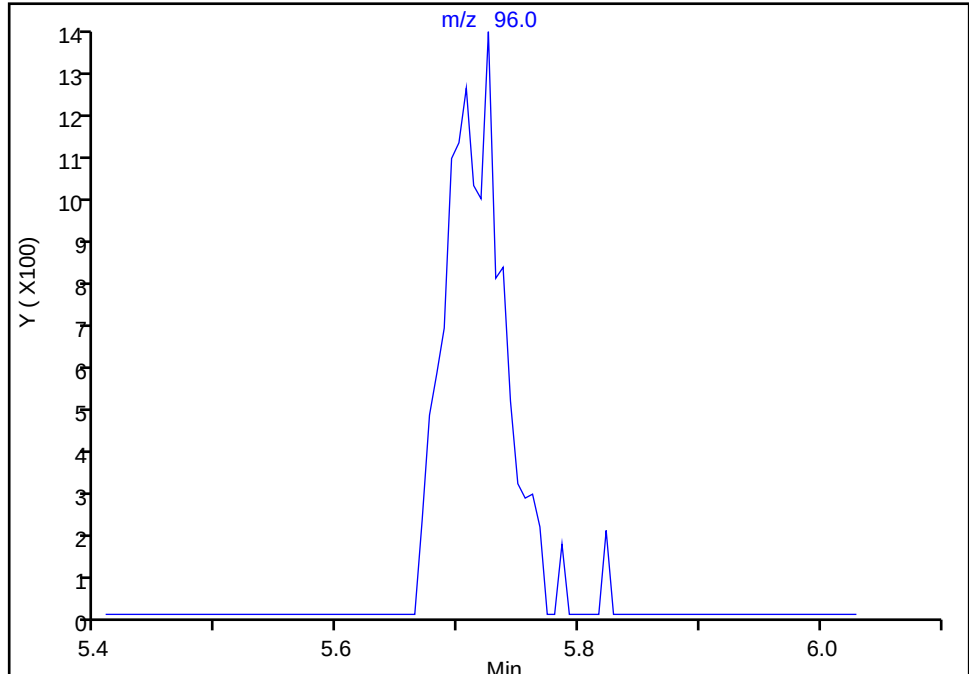
Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X17.D
Injection Date: 29-Feb-2024 18:24:30 Instrument ID: 10193
Lims ID: 410-161790-A-7 Lab Sample ID: 410-161790-7
Client ID: HD-COD-SW-16-0/1-0
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

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

Signal: 1

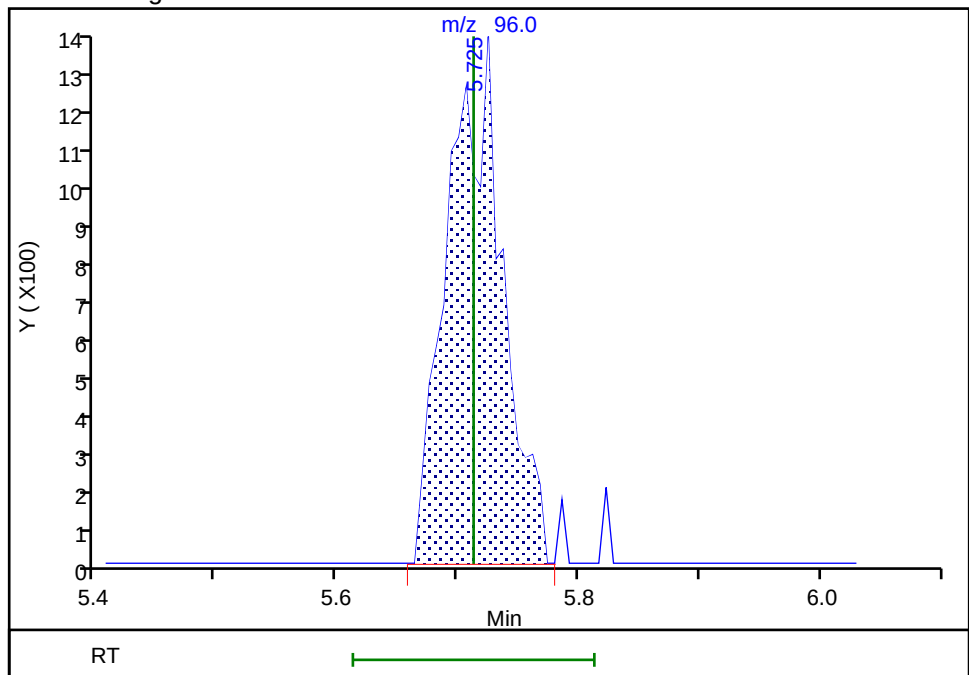
Not Detected
Expected RT: 5.71

Processing Integration Results



RT: 5.72
Area: 4228
Amount: 0.065878
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 03-Mar-2024 23:00:21 07:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-8

Matrix: Water

Lab File ID: HF28X24.D

Analysis Method: 8260D

Date Collected: 02/23/2024 10:45

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 01:52

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 478015

Units: ug/L

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	8.8		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	1.8		0.50	0.10
75-35-4	1,1-Dichloroethene	0.71		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	^c ** cn	0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	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	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.18	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	3.2		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-8

Matrix: Water

Lab File ID: HF28X24.D

Analysis Method: 8260D

Date Collected: 02/23/2024 10:45

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 01:52

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 478015

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	4.5		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X24.D
 Lims ID: 410-161790-A-8
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 29-Feb-2024 01:52:30 ALS Bottle#: 24 Worklist Smp#: 25
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107468-025
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 29-Feb-2024 00:13:32 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 14:15:47

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		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.562				ND	
17 1,1-Dichloroethene	96	3.403	3.385	0.018	98	27590	0.7083	
19 Acetone	43		3.410				ND	7
23 Carbon disulfide	76		3.672				ND	
27 Methylene Chloride	84		4.013				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	4.050	4.038	0.012	25	90530	50.0	
32 Methyl tert-butyl ether	73		4.410				ND	7
33 trans-1,2-Dichloroethene	96		4.422				ND	7
36 1,1-Dichloroethane	63	5.092	5.080	0.012	96	139769	1.77	
41 2-Butanone (MEK)	43		5.873				ND	
42 cis-1,2-Dichloroethene	96	5.921	5.909	0.012	79	156973	3.16	
48 Chlorobromomethane	128		6.238				ND	
50 Chloroform	83	6.403	6.391	0.012	92	14518	0.1789	
\$ 52 Dibromofluoromethane (Surr)	113	6.616	6.604	0.012	94	448055	9.49	
53 1,1,1-Trichloroethane	97	6.628	6.623	0.005	99	672608	8.84	
56 Carbon tetrachloride	117		6.836				ND	7
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.080	7.061	0.019	47	96769	10.9	
59 Benzene	78		7.098				ND	7
60 1,2-Dichloroethane	62		7.165				ND	
* 64 Fluorobenzene (IS)	96	7.512	7.500	0.012	99	1863355	10.0	
68 Trichloroethene	95	7.994	7.982	0.012	97	224205	4.47	
70 1,2-Dichloropropane	63		8.311				ND	
76 Dichlorobromomethane	83		8.659				ND	
80 cis-1,3-Dichloropropene	75		9.214				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.396				ND	
\$ 83 Toluene-d8 (Surr)	98	9.536	9.531	0.005	93	1869096	9.63	
84 Toluene	92		9.610				ND	7
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.176	10.171	0.005	98	8920531	154.0	E
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	7
112 Ethylene Dibromide	107		10.573				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.012	11.012	0.000	85	1468125	10.0	
115 Chlorobenzene	112		11.036				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.122				ND	
117 Ethylbenzene	91		11.122				ND	7
119 m-Xylene & p-Xylene	106		11.244				ND	
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.573				ND	
121 Styrene	104		11.585				ND	
122 Bromoform	173		11.744				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.018	12.018	0.000	92	658645	9.06	
127 1,1,2,2-Tetrachloroethane	83		12.115				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.902	12.896	0.006	94	762696	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 29-Feb-2024 14:15:47

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X24.D

Injection Date: 29-Feb-2024 01:52:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-161790-A-8

Lab Sample ID: 410-161790-8

Worklist Smp#: 25

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

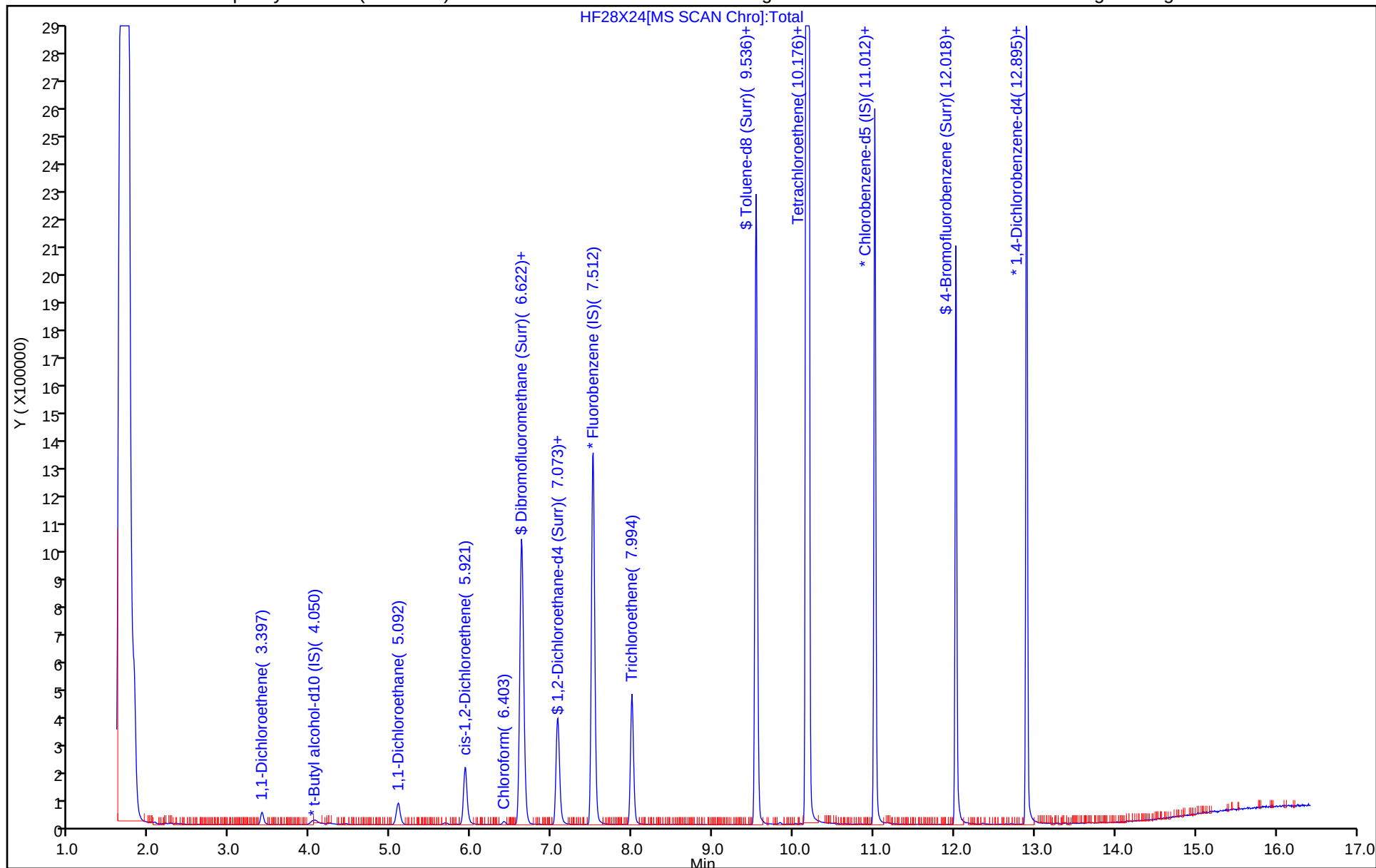
ALS Bottle#: 24

Method: MSV_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\20240228-107468.b\HF28X24.D
Lims ID: 410-161790-A-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 29-Feb-2024 01:52:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107468-025
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Feb-2024 00:13:32 Calib Date: 17-Oct-2023 09:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 14:15:47

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.49	94.91
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.9	108.72
\$ 83 Toluene-d8 (Surr)	10.0	9.63	96.32
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.06	90.65

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X24.D

Injection Date: 29-Feb-2024 01:52:30

Instrument ID: 19094

Lims ID: 410-161790-A-8

Lab Sample ID: 410-161790-8

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

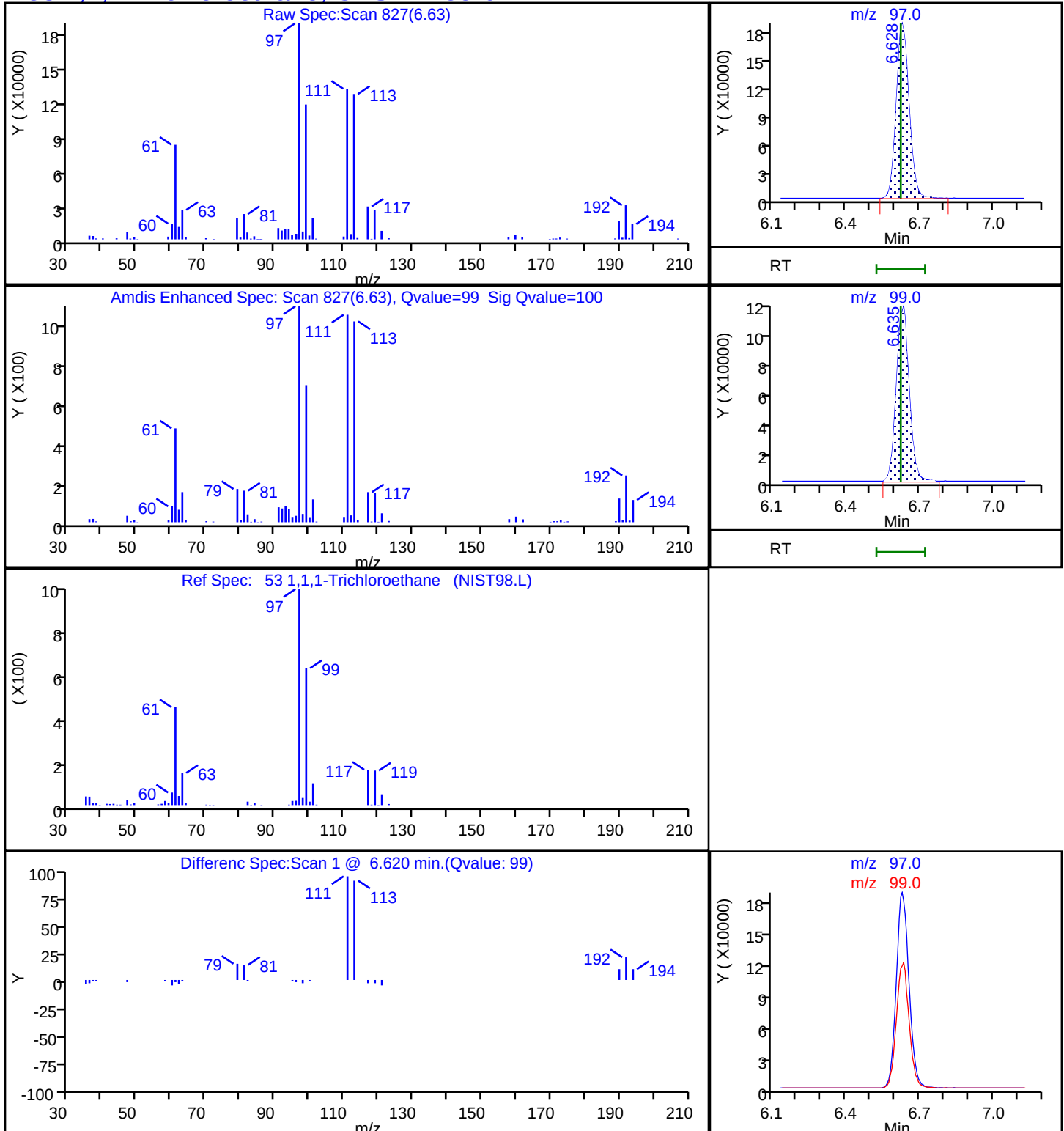
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X24.D

Injection Date: 29-Feb-2024 01:52:30

Instrument ID: 19094

Lims ID: 410-161790-A-8

Lab Sample ID: 410-161790-8

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

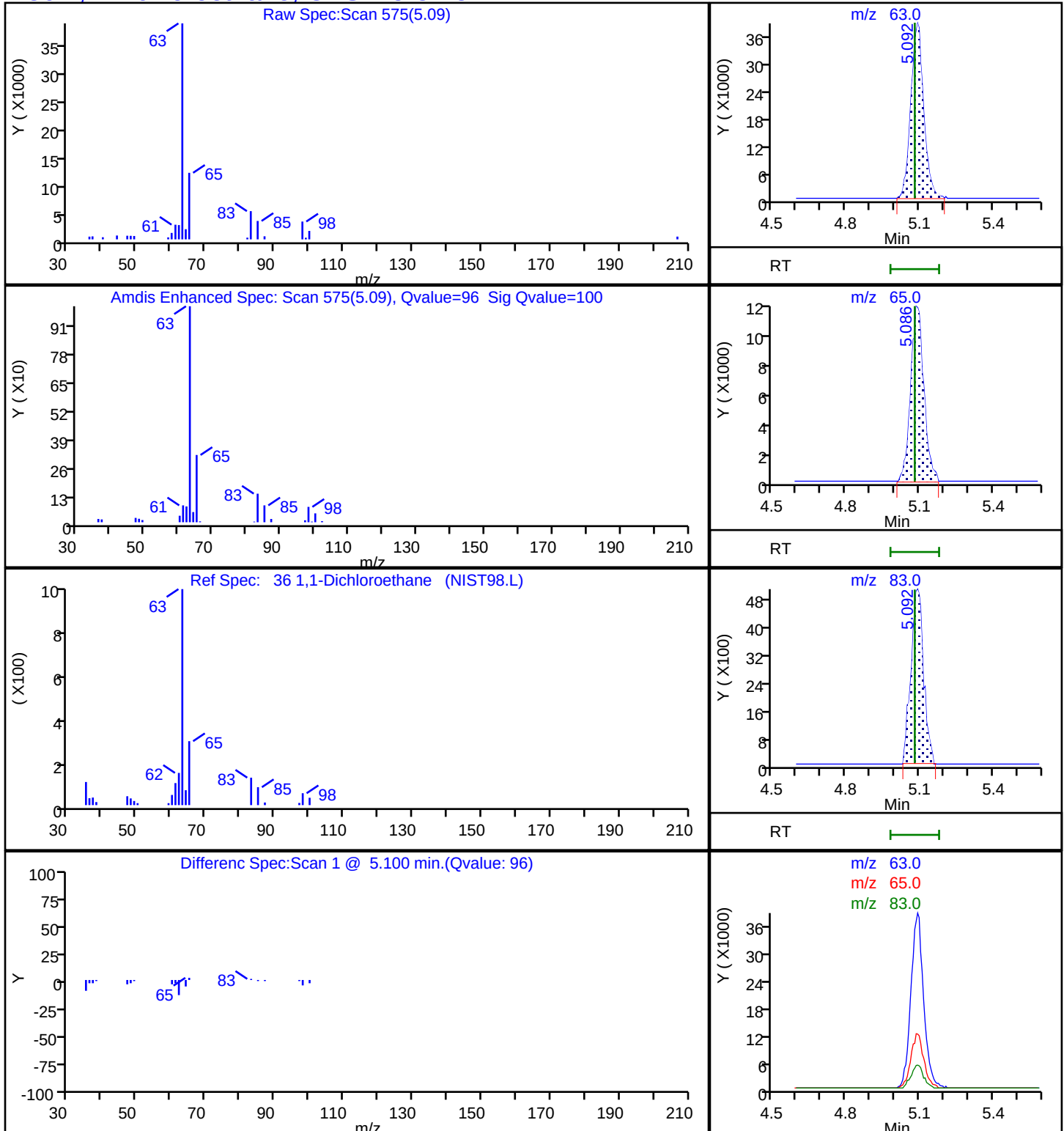
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

36 1,1-Dichloroethane, CAS: 75-34-3

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X24.D

Injection Date: 29-Feb-2024 01:52:30

Instrument ID: 19094

Lims ID: 410-161790-A-8

Lab Sample ID: 410-161790-8

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

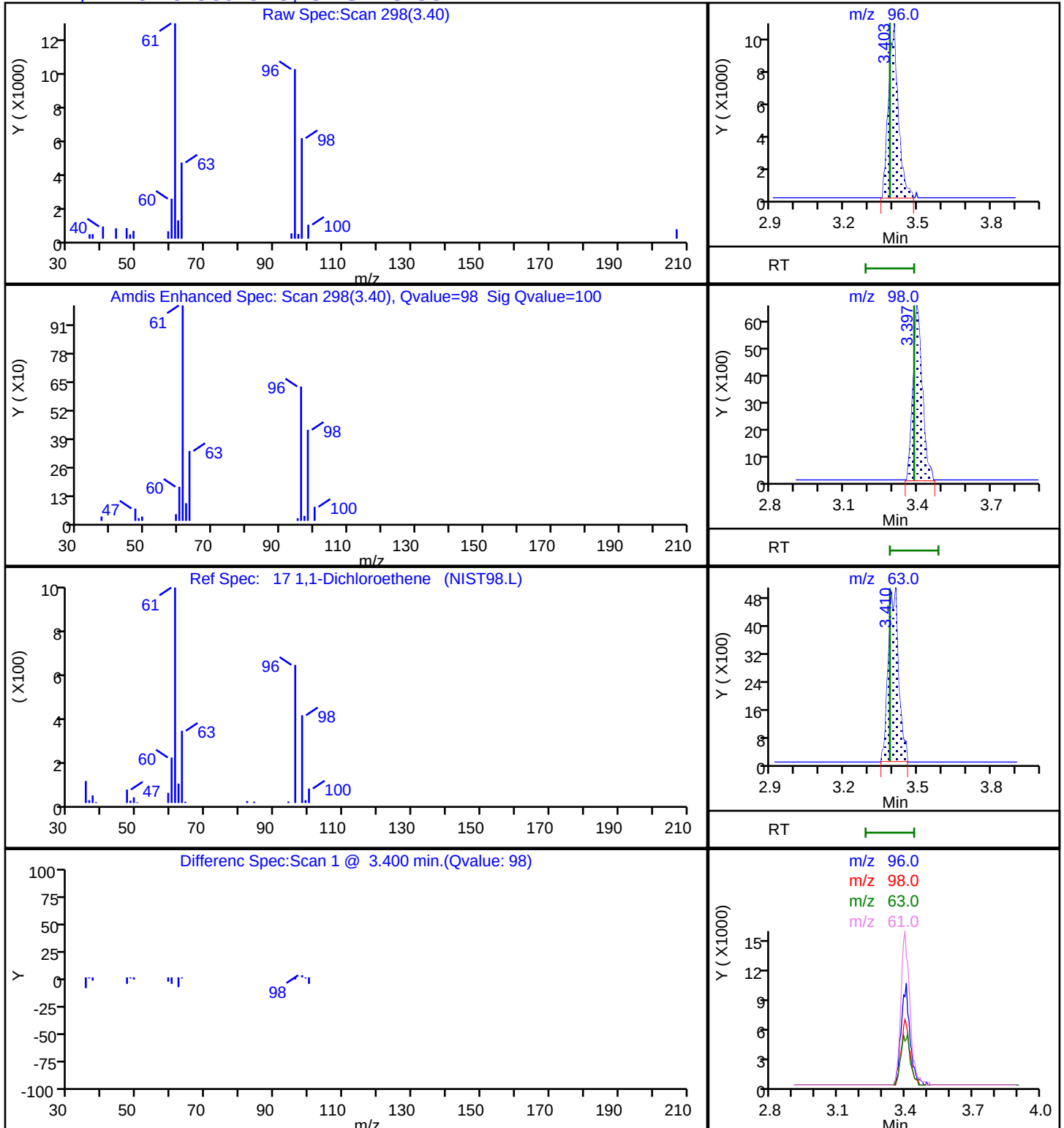
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

17 1,1-Dichloroethene, CAS: 75-35-4

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X24.D

Injection Date: 29-Feb-2024 01:52:30

Instrument ID: 19094

Lims ID: 410-161790-A-8

Lab Sample ID: 410-161790-8

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

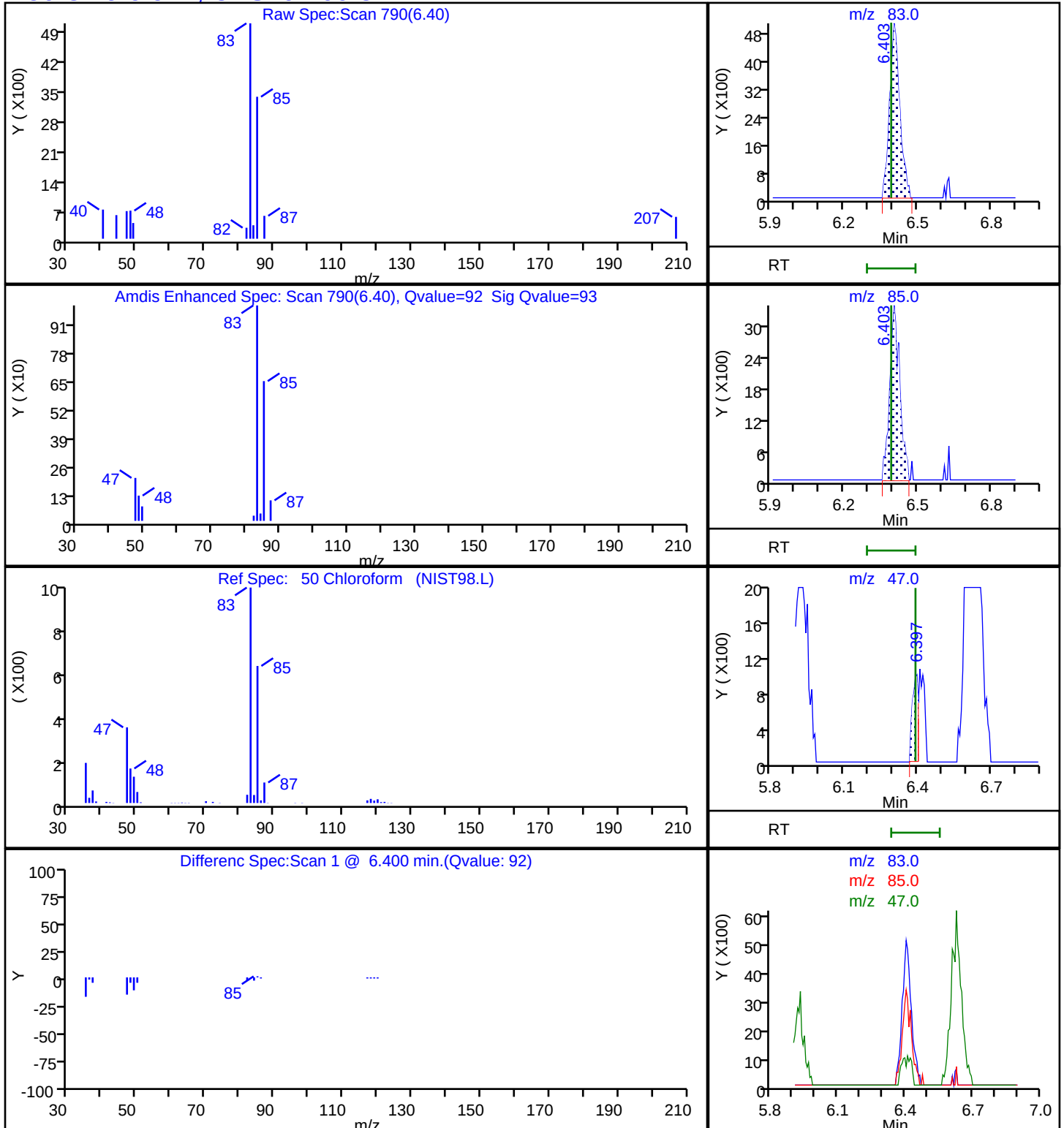
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X24.D

Injection Date: 29-Feb-2024 01:52:30

Instrument ID: 19094

Lims ID: 410-161790-A-8

Lab Sample ID: 410-161790-8

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

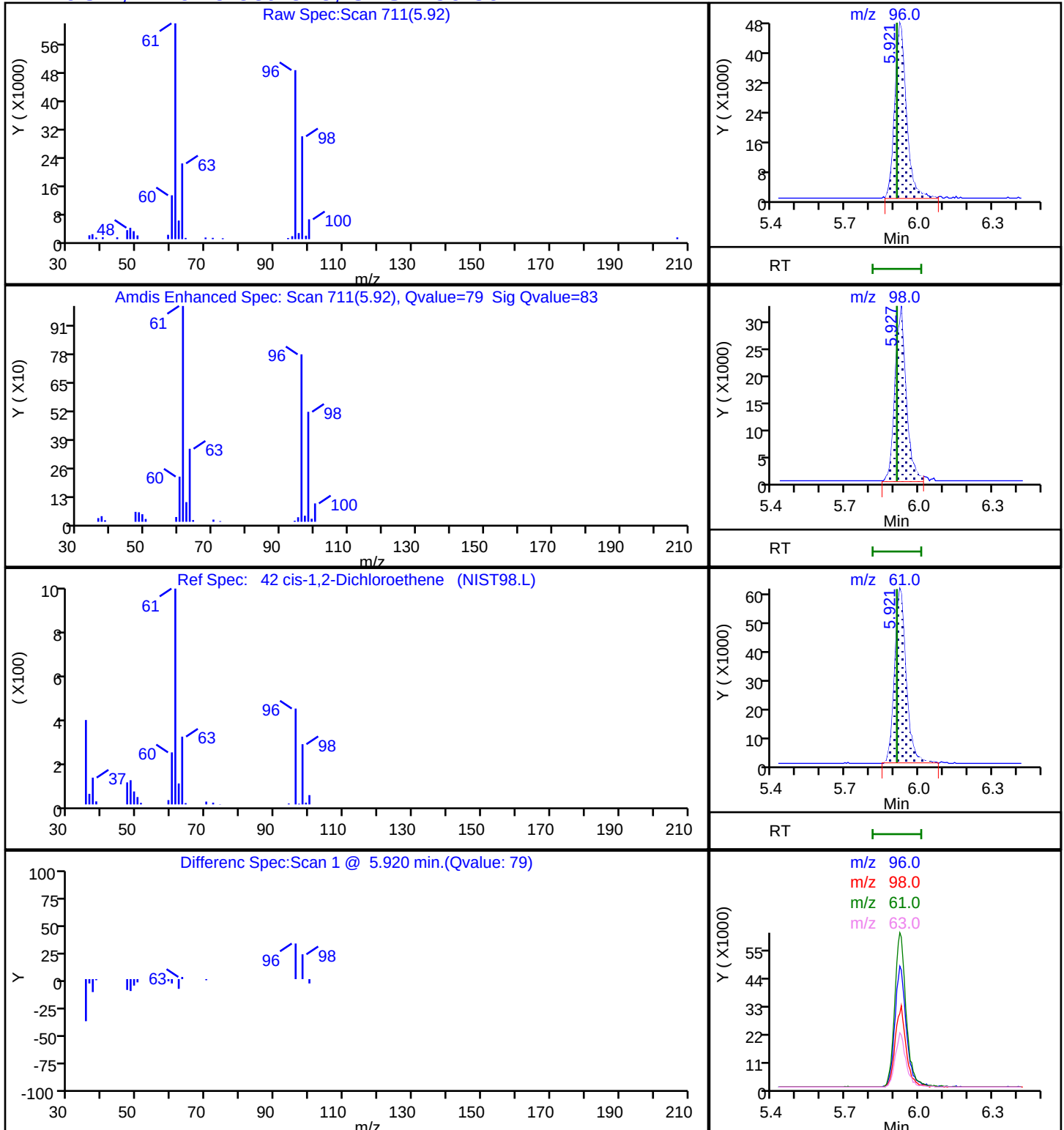
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X24.D

Injection Date: 29-Feb-2024 01:52:30

Instrument ID: 19094

Lims ID: 410-161790-A-8

Lab Sample ID: 410-161790-8

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

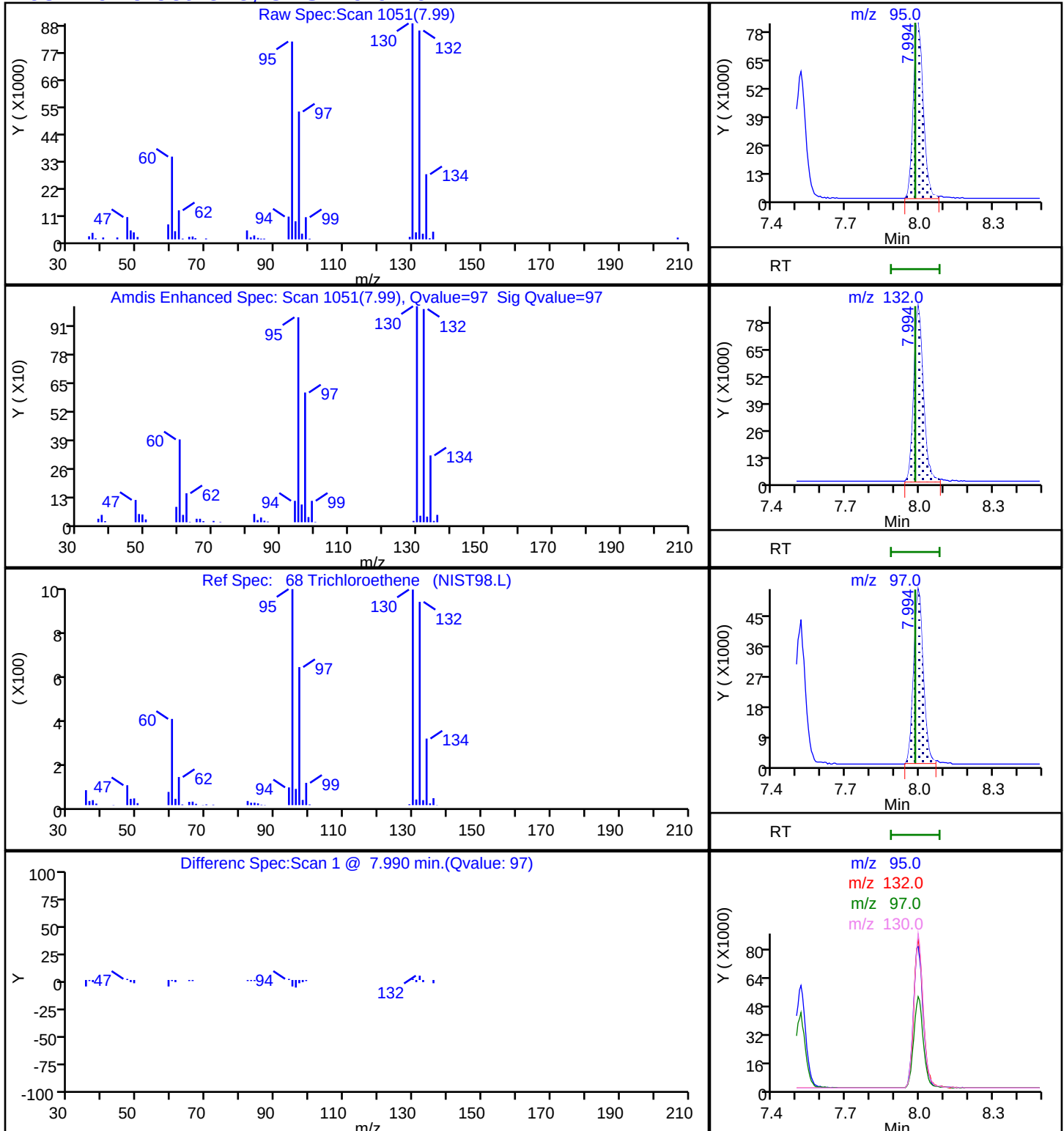
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

FORM I

Job No.: 410-161790-1

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

Lab Sample ID: 410-161790-8 DL

Lab File ID: HF28X25.D

Date Collected: 02/23/2024 10:45

Date Analyzed: 02/29/2024 02:12

Dilution Factor: 10

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

Heated Purge: (Y/N) N pH:

Level: (low/med) Low

Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X25.D
 Lims ID: 410-161790-B-8 DL
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 29-Feb-2024 02:12:30 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 25.000 mL Dil. Factor: 10.0000
 Sample Info: 410-0107468-026
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 29-Feb-2024 14:57:35 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 14:57:35

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		2.172				ND	
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.562				ND	
17 1,1-Dichloroethene	96	3.397	3.385	0.012	93	2719	0.0712	
19 Acetone	43		3.410				ND	
23 Carbon disulfide	76		3.672				ND	
27 Methylene Chloride	84		4.013				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	4.068	4.038	0.030	25	97594	50.0	
32 Methyl tert-butyl ether	73		4.410				ND	
33 trans-1,2-Dichloroethene	96		4.422				ND	
36 1,1-Dichloroethane	63	5.086	5.080	0.006	95	12111	0.1569	
41 2-Butanone (MEK)	43		5.873				ND	
42 cis-1,2-Dichloroethene	96	5.915	5.909	0.006	80	12887	0.2649	
48 Chlorobromomethane	128		6.238				ND	
50 Chloroform	83	6.415	6.391	0.024	15	3520	0.0443	
\$ 52 Dibromofluoromethane (Surr)	113	6.616	6.604	0.012	94	441315	9.54	
53 1,1,1-Trichloroethane	97	6.628	6.623	0.005	40	56342	0.7555	
56 Carbon tetrachloride	117		6.836				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.073	7.061	0.012	46	96268	11.0	
59 Benzene	78		7.098				ND	
60 1,2-Dichloroethane	62		7.165				ND	
* 64 Fluorobenzene (IS)	96	7.506	7.500	0.006	99	1825831	10.0	
68 Trichloroethene	95	7.994	7.982	0.012	95	18151	0.3693	
70 1,2-Dichloropropane	63		8.311				ND	
76 Dichlorobromomethane	83		8.659				ND	
80 cis-1,3-Dichloropropene	75		9.214				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.396				ND	
\$ 83 Toluene-d8 (Surr)	98	9.536	9.531	0.005	93	1833831	9.75	
84 Toluene	92		9.610				ND	
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	10.177	10.171	0.006	98	715729	12.7	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.573				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.012	11.012	0.000	85	1423356	10.0	
115 Chlorobenzene	112		11.036				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.122				ND	
117 Ethylbenzene	91		11.122				ND	
119 m-Xylene & p-Xylene	106		11.244				ND	
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.573				ND	
121 Styrene	104		11.585				ND	
122 Bromoform	173		11.744				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.018	12.018	0.000	92	652311	9.26	
127 1,1,2,2-Tetrachloroethane	83		12.115				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.902	12.896	0.006	94	751971	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 29-Feb-2024 14:57:35

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X25.D

Injection Date: 29-Feb-2024 02:12:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-161790-B-8 DL

Lab Sample ID: 410-161790-8

Worklist Smp#: 26

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

Purge Vol: 25.000 mL

Dil. Factor: 10.0000

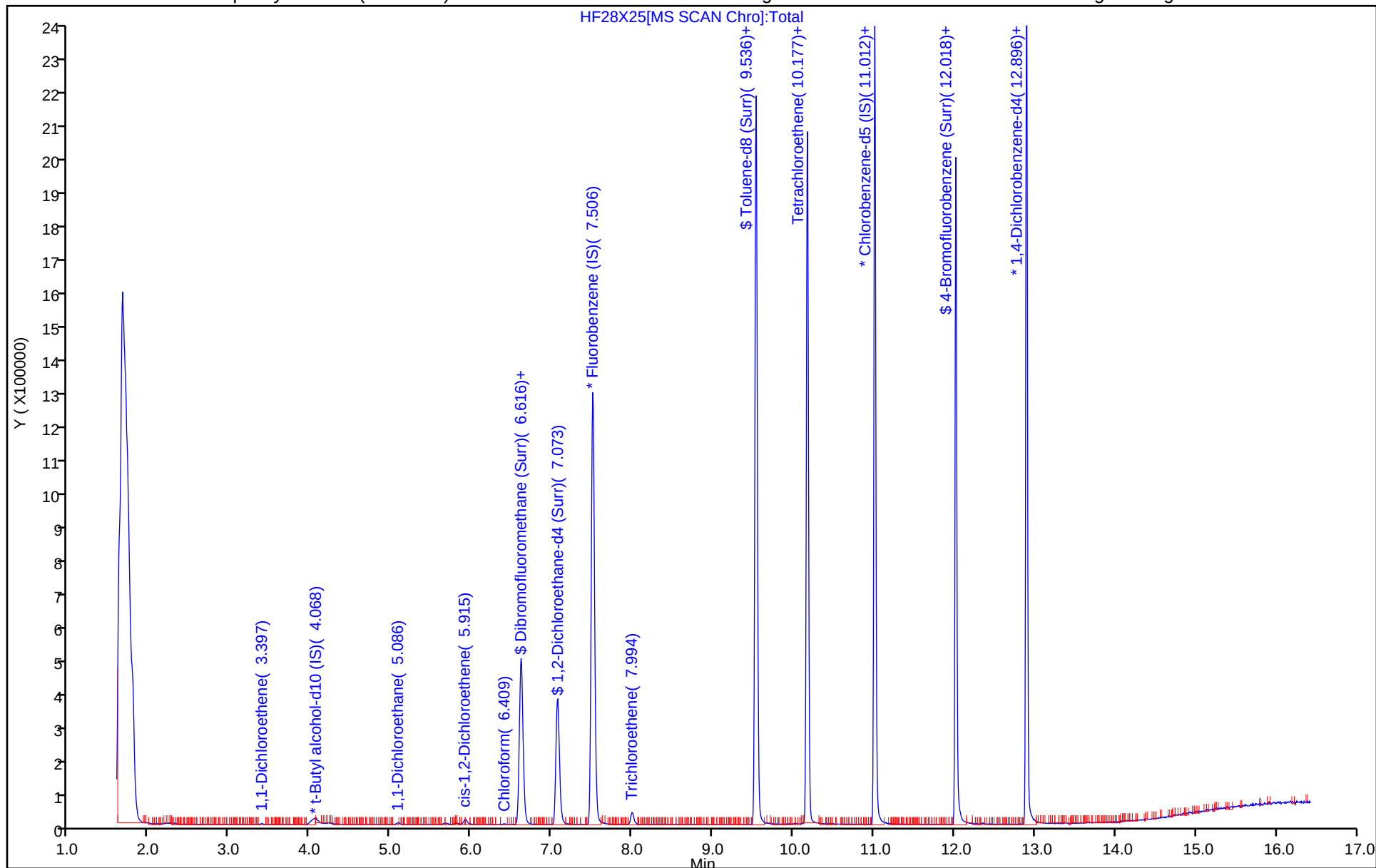
ALS Bottle#: 25

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\20240228-107468.b\HF28X25.D
Lims ID: 410-161790-B-8 DL
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 29-Feb-2024 02:12:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0107468-026
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Feb-2024 14:57:35 Calib Date: 17-Oct-2023 09:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 14:57:35

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.54	95.40
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	11.0	110.38
\$ 83 Toluene-d8 (Surr)	10.0	9.75	97.48
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.26	92.60

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X25.D

Injection Date: 29-Feb-2024 02:12:30

Instrument ID: 19094

Lims ID: 410-161790-B-8 DL

Lab Sample ID: 410-161790-8

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

Operator ID: gaw91131

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 25.000 mL

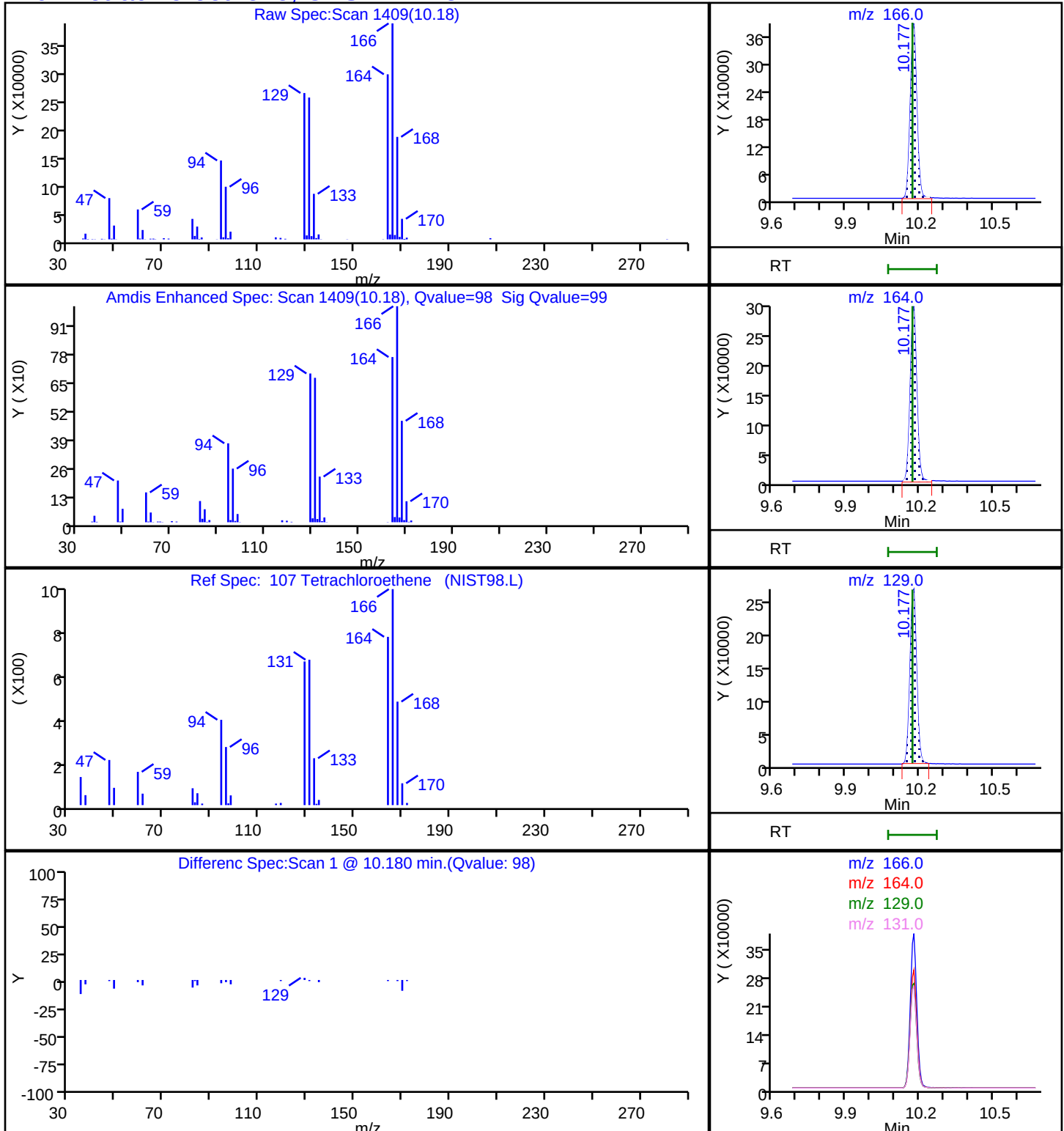
Dil. Factor: 10.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-9

Matrix: Water

Lab File ID: HF28X20.D

Analysis Method: 8260D

Date Collected: 02/23/2024 11:22

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 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.: 478015

Units: ug/L

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	^c ** cn	0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	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	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.11	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	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	0.55		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-161790-9

Matrix: Water Lab File ID: HF28X20.D

Analysis Method: 8260D Date Collected: 02/23/2024 11:22

Sample wt/vol: 25 (mL) Date Analyzed: 02/29/2024 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.: 478015 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	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)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X20.D
 Lims ID: 410-161790-A-9
 Client ID: HD-COD-SW-26-0/1-0
 Sample Type: Client
 Inject. Date: 29-Feb-2024 00:31:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107468-021
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 29-Feb-2024 13:02:54 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 13:02:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.068	2.056	0.012	89	1981	0.0330	
6 Vinyl chloride	62		2.172				ND	
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.562				ND	
17 1,1-Dichloroethene	96		3.385				ND	7
19 Acetone	43		3.410				ND	
23 Carbon disulfide	76		3.672				ND	7
27 Methylene Chloride	84		4.013				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	4.062	4.038	0.024	22	87427	50.0	
32 Methyl tert-butyl ether	73		4.410				ND	
33 trans-1,2-Dichloroethene	96		4.422				ND	
36 1,1-Dichloroethane	63		5.080				ND	
41 2-Butanone (MEK)	43		5.873				ND	
42 cis-1,2-Dichloroethene	96	5.940	5.909	0.031	1	2177	0.0442	
48 Chlorobromomethane	128		6.238				ND	
50 Chloroform	83	6.397	6.391	0.006	91	9050	0.1123	
\$ 52 Dibromofluoromethane (Surr)	113	6.616	6.604	0.012	94	446093	9.52	
53 1,1,1-Trichloroethane	97		6.623				ND	
56 Carbon tetrachloride	117		6.836				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.073	7.061	0.012	47	92119	10.4	
59 Benzene	78		7.098				ND	7
60 1,2-Dichloroethane	62		7.165				ND	
* 64 Fluorobenzene (IS)	96	7.512	7.500	0.012	99	1849840	10.0	
68 Trichloroethene	95	7.994	7.982	0.012	92	3222	0.0647	M
70 1,2-Dichloropropane	63		8.311				ND	
76 Dichlorobromomethane	83		8.659				ND	7
80 cis-1,3-Dichloropropene	75		9.214				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.396				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.536	9.531	0.005	93	1873325	9.86	
84 Toluene	92	9.622	9.610	0.012	92	3150	0.0265	
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	97	31221	0.5507	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.573				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.012	11.012	0.000	85	1436853	10.0	
115 Chlorobenzene	112		11.036				ND	
116 1,1,1,2-Tetrachloroethane	131		11.122				ND	
117 Ethylbenzene	91		11.122				ND	7
119 m-Xylene & p-Xylene	106		11.244				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.573				ND	
121 Styrene	104		11.585				ND	
122 Bromoform	173		11.744				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.018	12.018	0.000	93	652086	9.17	
127 1,1,2,2-Tetrachloroethane	83		12.115				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.895	12.896	-0.001	94	762144	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 29-Feb-2024 13:02:55

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X20.D

Injection Date: 29-Feb-2024 00:31:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-161790-A-9

Lab Sample ID: 410-161790-9

Worklist Smp#: 21

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

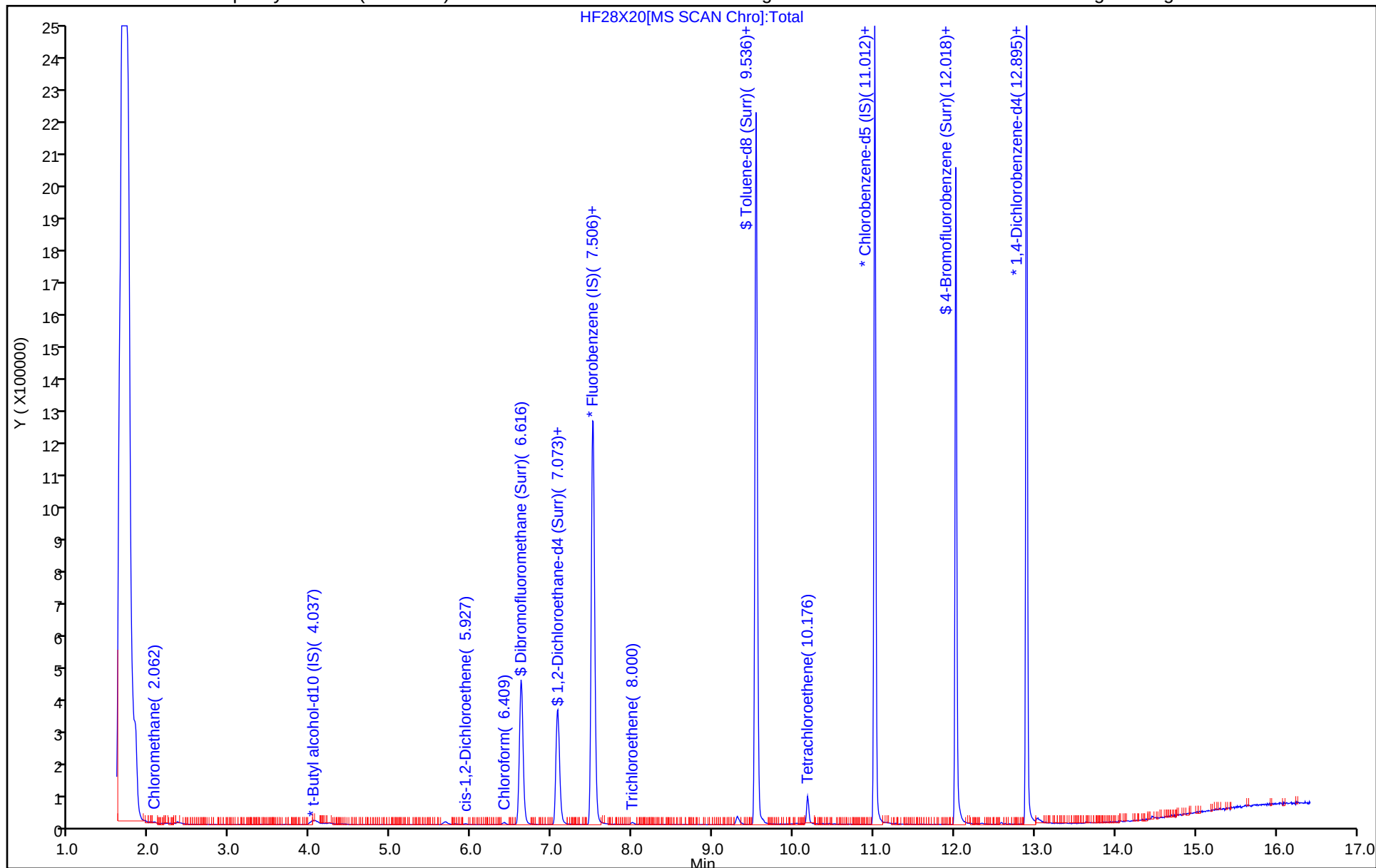
ALS Bottle#: 20

Method: MSV_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\20240228-107468.b\HF28X20.D
Lims ID: 410-161790-A-9
Client ID: HD-COD-SW-26-0/1-0
Sample Type: Client
Inject. Date: 29-Feb-2024 00:31:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107468-021
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Feb-2024 13:02:54 Calib Date: 17-Oct-2023 09:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 13:02:54

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.52	95.18
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.26
\$ 83 Toluene-d8 (Surr)	10.0	9.86	98.64
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.17	91.70

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X20.D

Injection Date: 29-Feb-2024 00:31:30

Instrument ID: 19094

Lims ID: 410-161790-A-9

Lab Sample ID: 410-161790-9

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

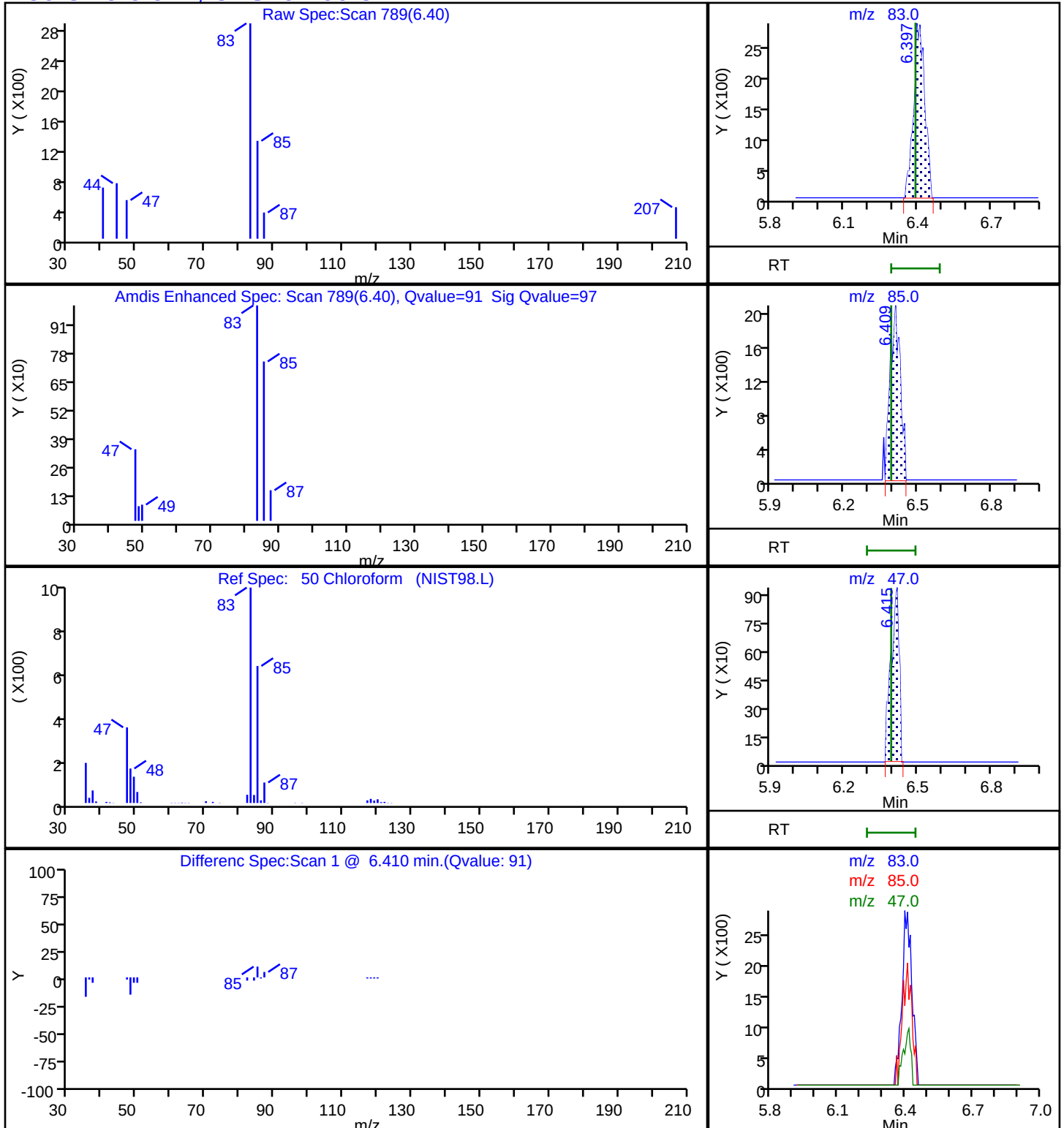
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X20.D

Injection Date: 29-Feb-2024 00:31:30

Instrument ID: 19094

Lims ID: 410-161790-A-9

Lab Sample ID: 410-161790-9

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

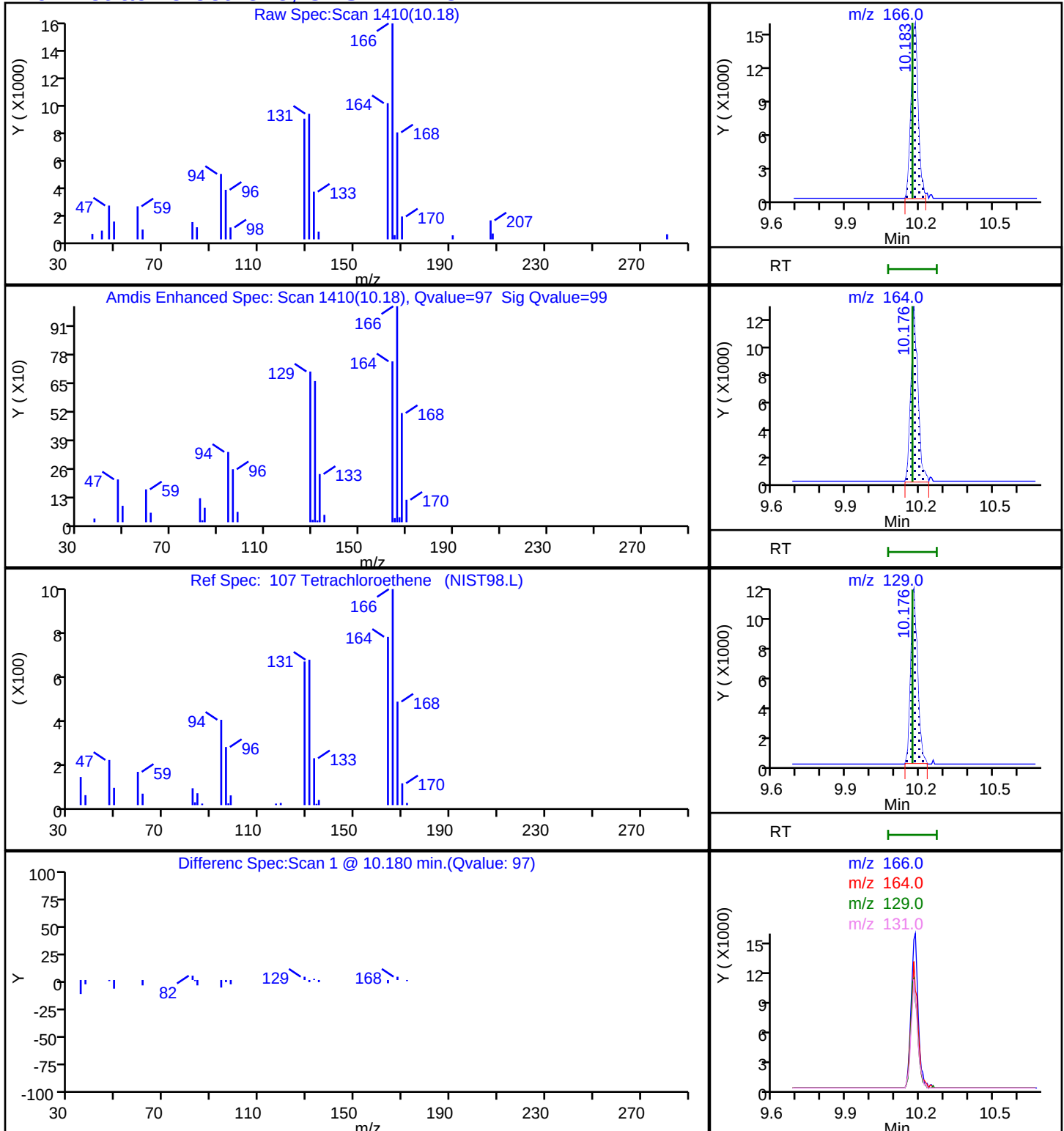
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

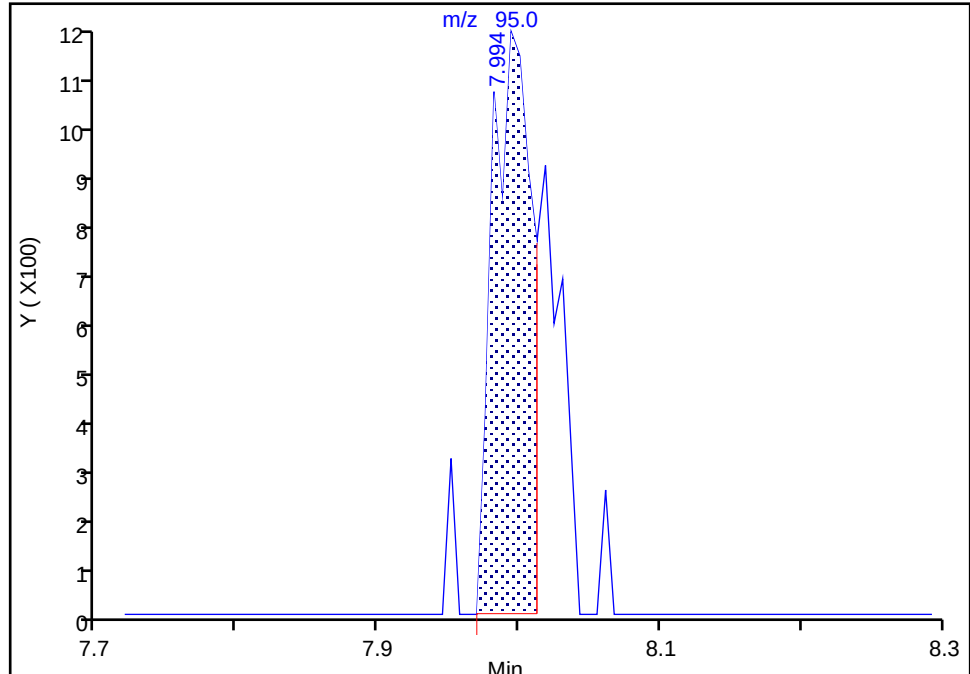
Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X20.D
Injection Date: 29-Feb-2024 00:31:30 Instrument ID: 19094
Lims ID: 410-161790-A-9 Lab Sample ID: 410-161790-9
Client ID: HD-COD-SW-26-0/1-0
Operator ID: gaw91131 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

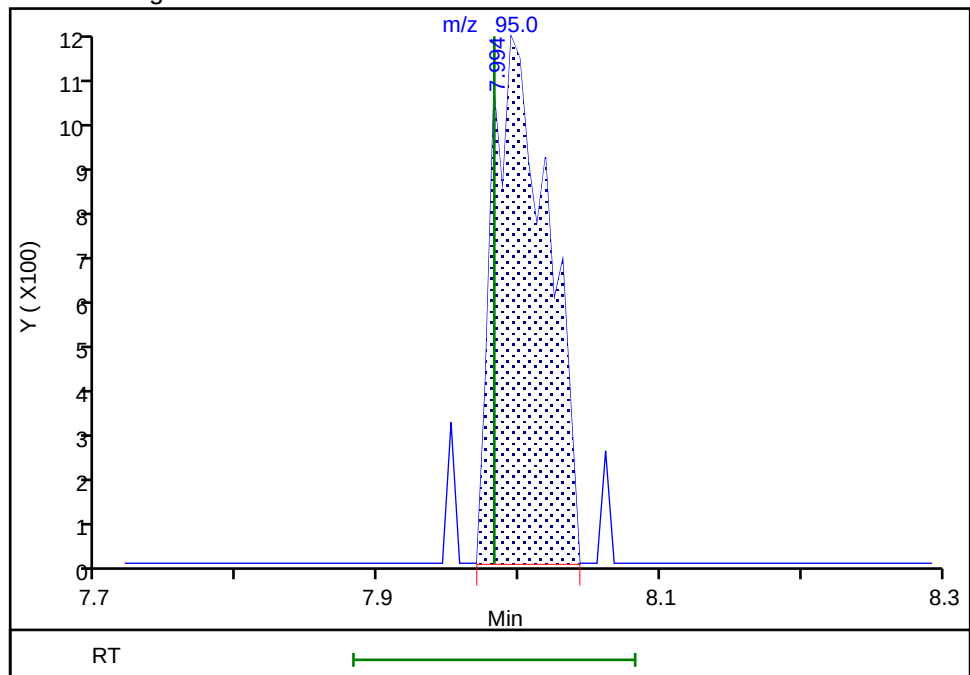
RT: 7.99
Area: 2301
Amount: 0.046211
Amount Units: ug/l

Processing Integration Results



RT: 7.99
Area: 3222
Amount: 0.064708
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 29-Feb-2024 13:02:38 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.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-10

Matrix: Water

Lab File ID: HF28X21.D

Analysis Method: 8260D

Date Collected: 02/23/2024 11:50

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 00:51

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.: 478015

Units: ug/L

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	[^] c *+ cn	0.50	0.10
78-93-3	2-Butanone (MEK)	ND	[^] c cn	5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.2	J	5.0	1.0
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
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-10

Matrix: Water

Lab File ID: HF28X21.D

Analysis Method: 8260D

Date Collected: 02/23/2024 11:50

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 00:51

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.: 478015

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X21.D
 Lims ID: 410-161790-A-10
 Client ID: HD-COD-SW-27-0/1-0
 Sample Type: Client
 Inject. Date: 29-Feb-2024 00:51:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107468-022
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 29-Feb-2024 13:43:52 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 13:43:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.056	2.056	0.000	93	2497	0.0423	
6 Vinyl chloride	62		2.172				ND	
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.562				ND	
17 1,1-Dichloroethene	96		3.385				ND	
19 Acetone	43	3.452	3.410	0.042	70	9901	2.15	
23 Carbon disulfide	76		3.672				ND	7
27 Methylene Chloride	84		4.013				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	4.019	4.038	-0.019	26	76005	50.0	
32 Methyl tert-butyl ether	73		4.410				ND	
33 trans-1,2-Dichloroethene	96		4.422				ND	
36 1,1-Dichloroethane	63		5.080				ND	
41 2-Butanone (MEK)	43		5.873				ND	7
42 cis-1,2-Dichloroethene	96	5.915	5.909	0.006	1	2442	0.0504	M
48 Chlorobromomethane	128		6.238				ND	
50 Chloroform	83	6.403	6.391	0.012	67	3607	0.0455	
\$ 52 Dibromofluoromethane (Surr)	113	6.610	6.604	0.006	94	444070	9.64	
53 1,1,1-Trichloroethane	97		6.623				ND	
56 Carbon tetrachloride	117		6.836				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.067	7.061	0.006	47	92415	10.6	
59 Benzene	78		7.098				ND	7
60 1,2-Dichloroethane	62		7.165				ND	
* 64 Fluorobenzene (IS)	96	7.506	7.500	0.006	99	1818936	10.0	
68 Trichloroethene	95	7.994	7.982	0.012	86	2934	0.0599	M
70 1,2-Dichloropropane	63		8.311				ND	
76 Dichlorobromomethane	83		8.659				ND	
80 cis-1,3-Dichloropropene	75		9.214				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.396				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.536	9.531	0.005	93	1839486	9.74	
84 Toluene	92	9.610	9.610	0.000	1	3309	0.0280	
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	89	3796	0.0673	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.573				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.012	11.012	0.000	85	1429026	10.0	
115 Chlorobenzene	112		11.036				ND	
116 1,1,1,2-Tetrachloroethane	131		11.122				ND	
117 Ethylbenzene	91		11.122				ND	7
119 m-Xylene & p-Xylene	106		11.244				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.573				ND	7
121 Styrene	104		11.585				ND	7
122 Bromoform	173		11.744				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.018	12.018	0.000	93	640335	9.05	
127 1,1,2,2-Tetrachloroethane	83		12.115				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.896	12.896	0.000	94	741243	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 29-Feb-2024 13:43:52

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X21.D

Injection Date: 29-Feb-2024 00:51:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-161790-A-10

Lab Sample ID: 410-161790-10

Worklist Smp#: 22

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

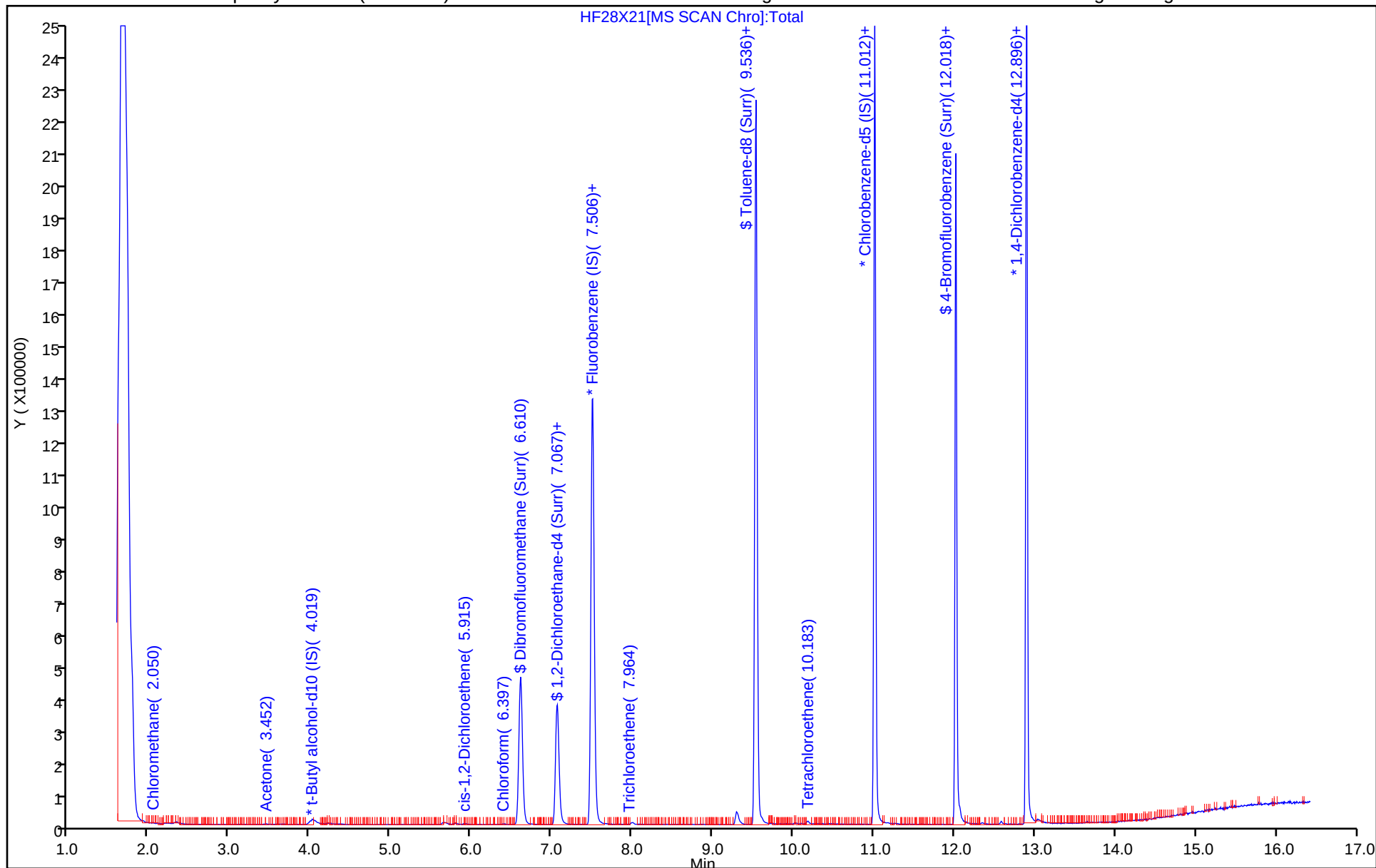
ALS Bottle#: 21

Method: MSV_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\20240228-107468.b\HF28X21.D
Lims ID: 410-161790-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 29-Feb-2024 00:51:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107468-022
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Feb-2024 13:43:52 Calib Date: 17-Oct-2023 09:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 13:43:52

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.64	96.36
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	106.37
\$ 83 Toluene-d8 (Surr)	10.0	9.74	97.39
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.05	90.54

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X21.D

Injection Date: 29-Feb-2024 00:51:30

Instrument ID: 19094

Lims ID: 410-161790-A-10

Lab Sample ID: 410-161790-10

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

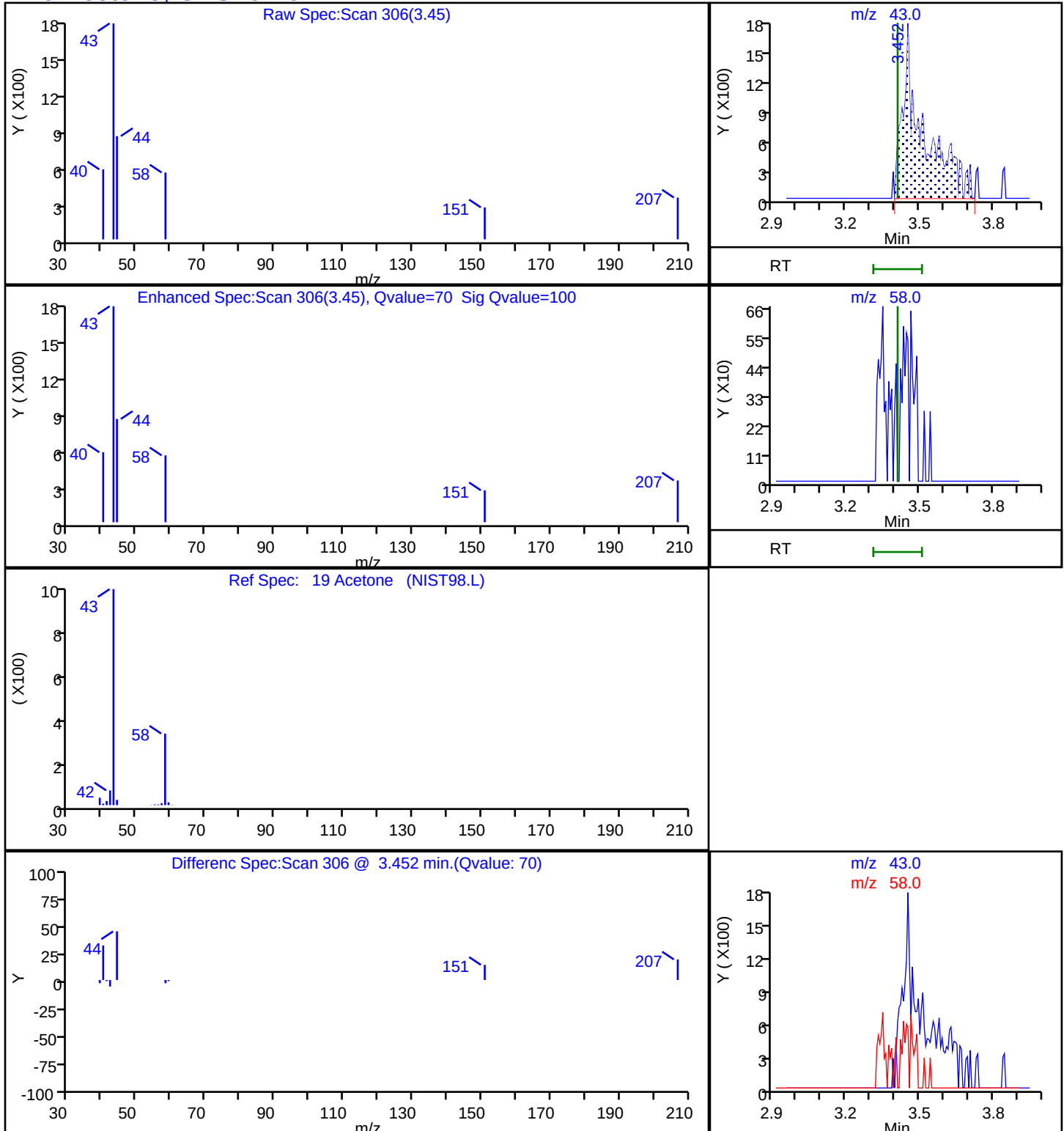
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

19 Acetone, CAS: 67-64-1

Eurofins Lancaster Laboratories Environment Testing, LLC

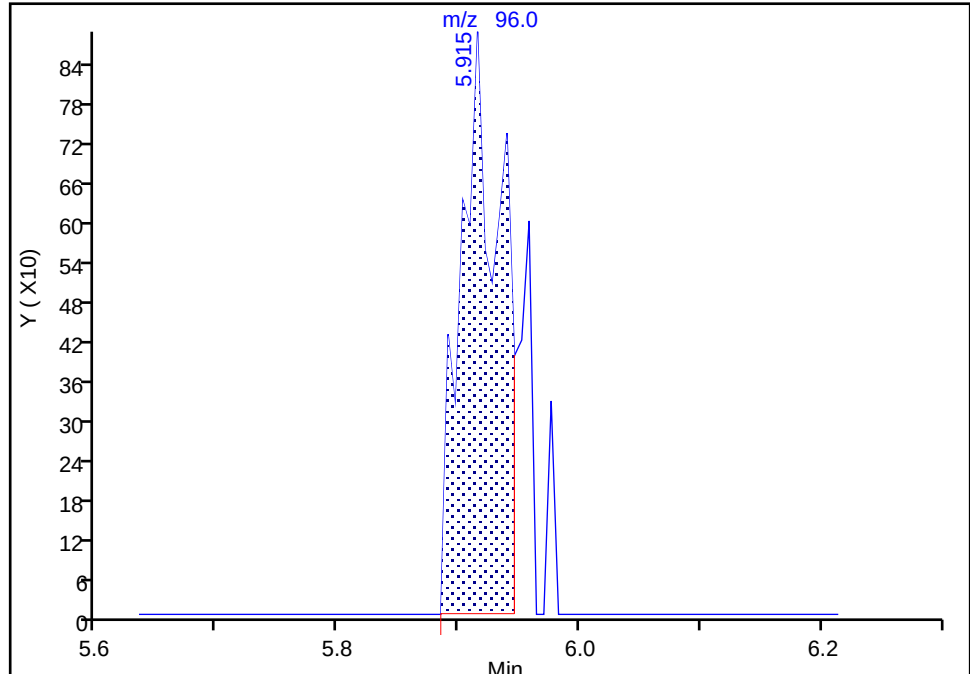
Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X21.D
Injection Date: 29-Feb-2024 00:51:30 Instrument ID: 19094
Lims ID: 410-161790-A-10 Lab Sample ID: 410-161790-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

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

Signal: 1

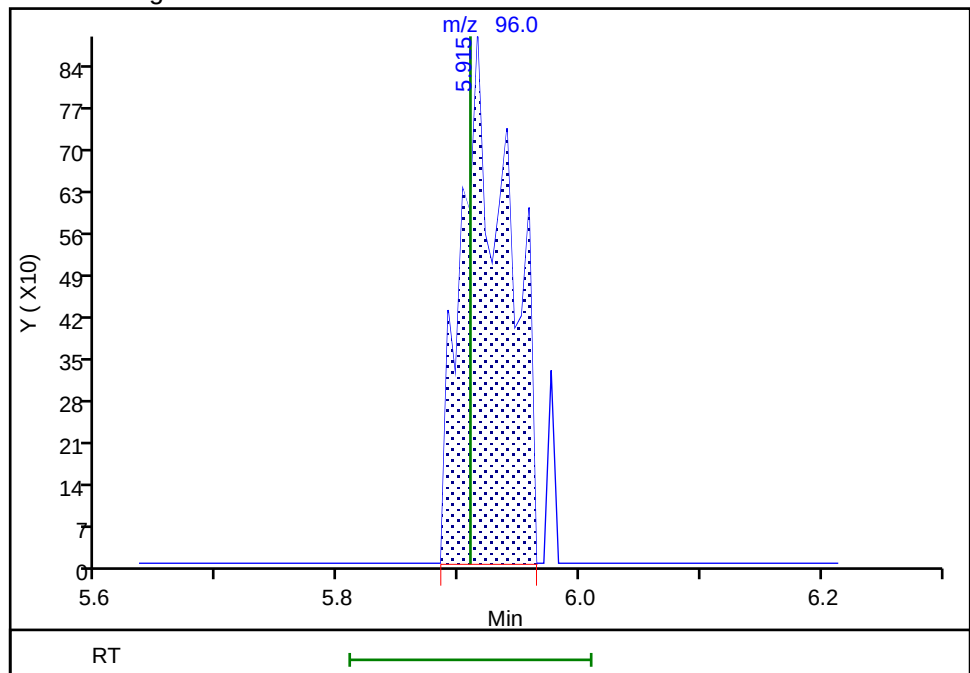
RT: 5.92
Area: 2068
Amount: 0.042662
Amount Units: ug/l

Processing Integration Results



RT: 5.92
Area: 2442
Amount: 0.050378
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 29-Feb-2024 13:43:19 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

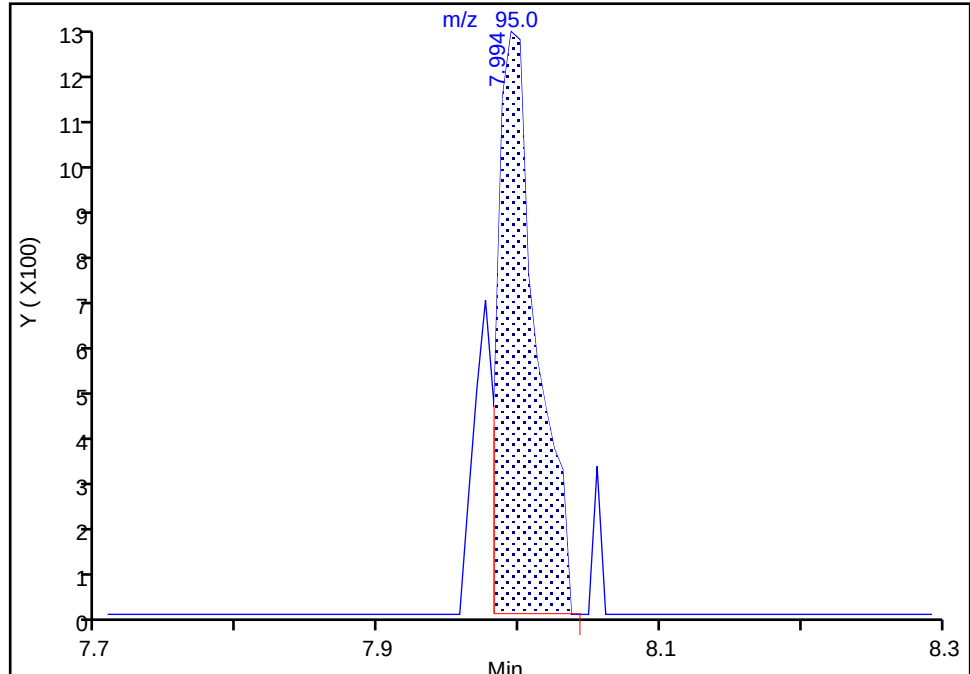
Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X21.D
Injection Date: 29-Feb-2024 00:51:30 Instrument ID: 19094
Lims ID: 410-161790-A-10 Lab Sample ID: 410-161790-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

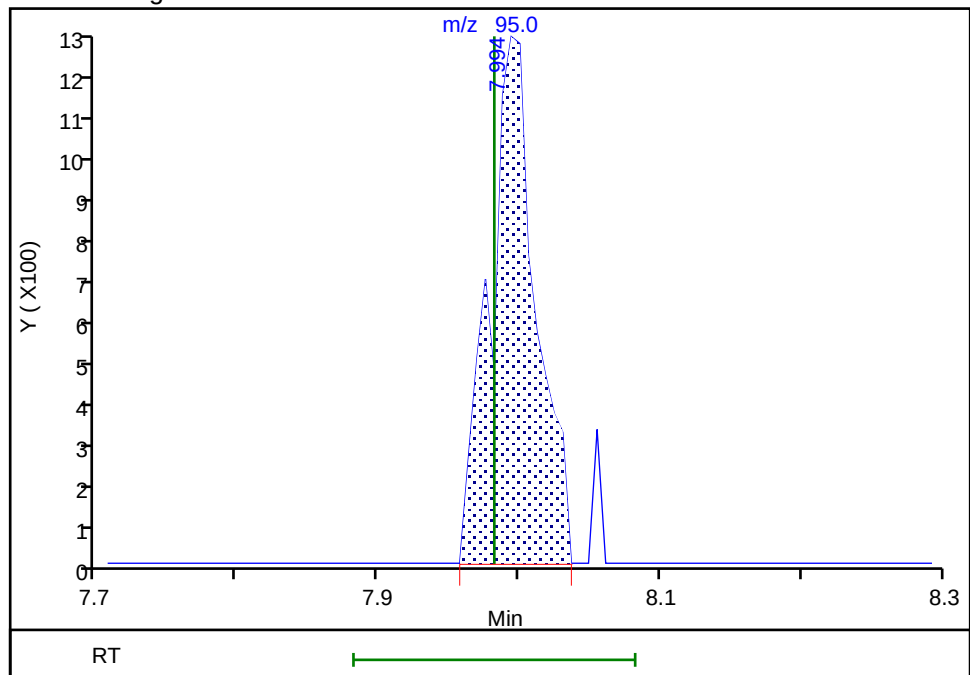
RT: 7.99
Area: 2406
Amount: 0.049141
Amount Units: ug/l

Processing Integration Results



RT: 7.99
Area: 2934
Amount: 0.059925
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 29-Feb-2024 13:43:34 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-11

Matrix: Water

Lab File ID: HF28X22.D

Analysis Method: 8260D

Date Collected: 02/23/2024 13:05

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 01:12

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 478015

Units: ug/L

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	^c ** cn	0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	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	1.0
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	0.081	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	0.23	J	0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-161790-11

Matrix: Water Lab File ID: HF28X22.D

Analysis Method: 8260D Date Collected: 02/23/2024 13:05

Sample wt/vol: 25 (mL) Date Analyzed: 02/29/2024 01:12

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

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

Analysis Batch No.: 478015 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.083	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		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\20240228-107468.b\HF28X22.D
 Lims ID: 410-161790-A-11
 Client ID: HD-COD-SW-28-0/1-0
 Sample Type: Client
 Inject. Date: 29-Feb-2024 01:12:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107468-023
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 29-Feb-2024 13:44:32 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 13:44:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.068	2.056	0.012	1	2951	0.0496	
6 Vinyl chloride	62		2.172				ND	
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.562				ND	
17 1,1-Dichloroethene	96		3.385				ND	
19 Acetone	43		3.410				ND	U
23 Carbon disulfide	76		3.672				ND	7
27 Methylene Chloride	84		4.013				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	4.031	4.038	-0.007	23	82732	50.0	
32 Methyl tert-butyl ether	73		4.410				ND	
33 trans-1,2-Dichloroethene	96		4.422				ND	
36 1,1-Dichloroethane	63		5.080				ND	
41 2-Butanone (MEK)	43		5.873				ND	
42 cis-1,2-Dichloroethene	96	5.927	5.909	0.018	67	3955	0.0809	
48 Chlorobromomethane	128		6.238				ND	
50 Chloroform	83	6.391	6.391	0.000	88	6235	0.0780	
\$ 52 Dibromofluoromethane (Surr)	113	6.622	6.604	0.018	94	445353	9.58	
53 1,1,1-Trichloroethane	97		6.623				ND	7
56 Carbon tetrachloride	117		6.836				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.074	7.061	0.013	59	90923	10.4	
59 Benzene	78		7.098				ND	7
60 1,2-Dichloroethane	62		7.165				ND	
* 64 Fluorobenzene (IS)	96	7.506	7.500	0.006	99	1834681	10.0	
68 Trichloroethene	95	8.000	7.982	0.018	89	4112	0.0833	
70 1,2-Dichloropropane	63		8.311				ND	
76 Dichlorobromomethane	83		8.659				ND	7
80 cis-1,3-Dichloropropene	75		9.214				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.396				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.536	9.531	0.005	93	1855587	9.88	
84 Toluene	92	9.616	9.610	0.006	98	6009	0.0512	
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	97	12626	0.2251	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.573				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.012	11.012	0.000	86	1421481	10.0	
115 Chlorobenzene	112		11.036				ND	
116 1,1,1,2-Tetrachloroethane	131		11.122				ND	
117 Ethylbenzene	91		11.122				ND	7
119 m-Xylene & p-Xylene	106		11.244				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.573				ND	7
121 Styrene	104		11.585				ND	7
122 Bromoform	173		11.744				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.018	12.018	0.000	93	645269	9.17	
127 1,1,2,2-Tetrachloroethane	83		12.115				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.896	12.896	0.000	94	754785	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 29-Feb-2024 13:44:33

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X22.D

Injection Date: 29-Feb-2024 01:12:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-161790-A-11

Lab Sample ID: 410-161790-11

Worklist Smp#: 23

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

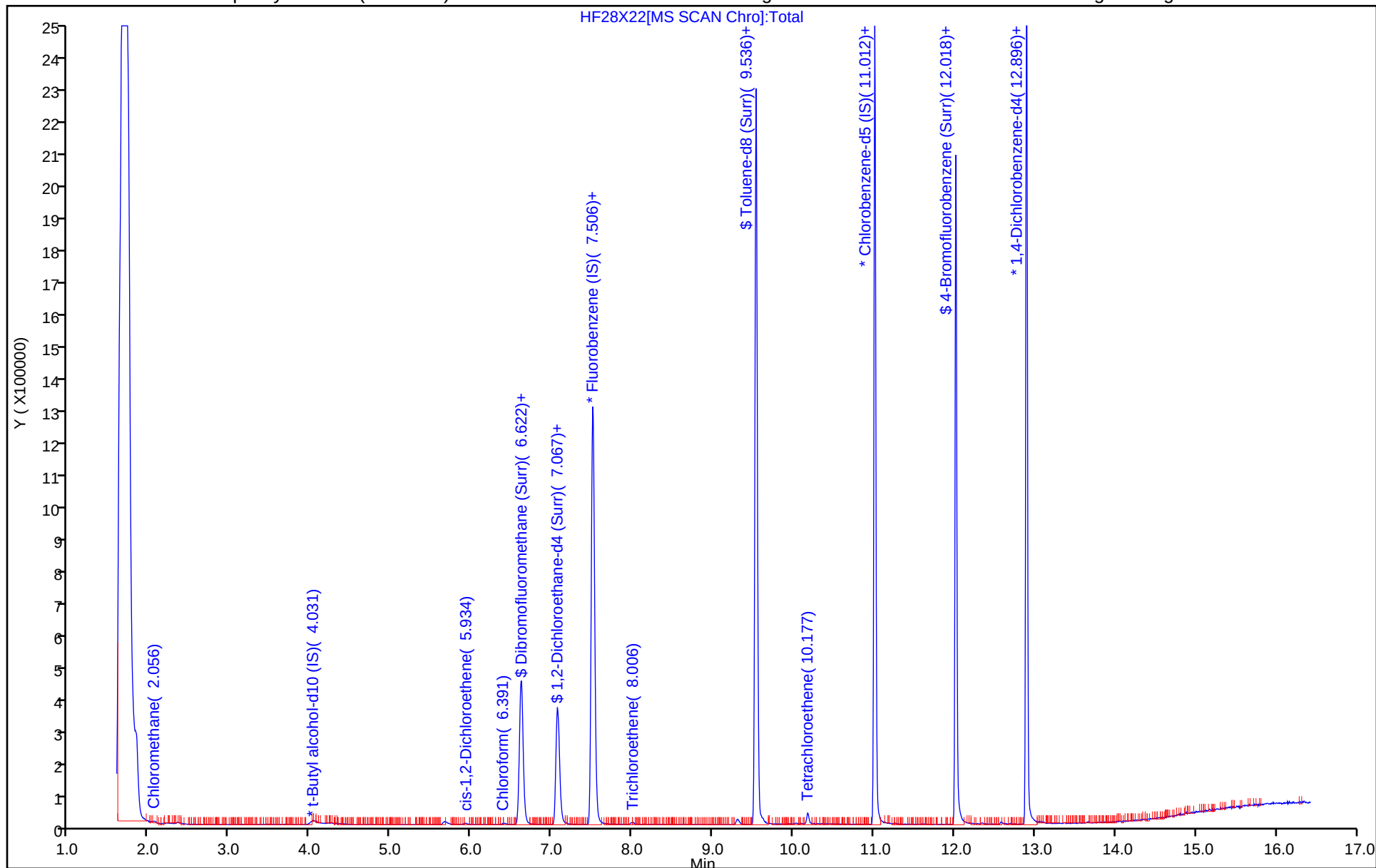
ALS Bottle#: 22

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\20240228-107468.b\HF28X22.D
Lims ID: 410-161790-A-11
Client ID: HD-COD-SW-28-0/1-0
Sample Type: Client
Inject. Date: 29-Feb-2024 01:12:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107468-023
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Feb-2024 13:44:32 Calib Date: 17-Oct-2023 09:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 13:44:32

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.58	95.81
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.75
\$ 83 Toluene-d8 (Surr)	10.0	9.88	98.77
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.17	91.72

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X22.D

Instrument ID: 19094

Lab Sample ID: 410-161790-11

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Dil. Factor: 1.0000

Limit Group: MSV - 8260C D

MS Quad

42 cis-1,2-Dichloroethene, CAS: 156-55-2

Raw Spec: Scan 712(5.93)

Amdis Enhanced Spec: Scan 712(5.93), Qvalue=67 Sig Qvalue=76

Ref Spec: 42 cis-1,2-Dichloroethene (NIST98.L)

Differenc Spec: Scan 1 @ 5.930 min.(Qvalue: 67)

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X22.D

Injection Date: 29-Feb-2024 01:12:30

Instrument ID: 19094

Lims ID: 410-161790-A-11

Lab Sample ID: 410-161790-11

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

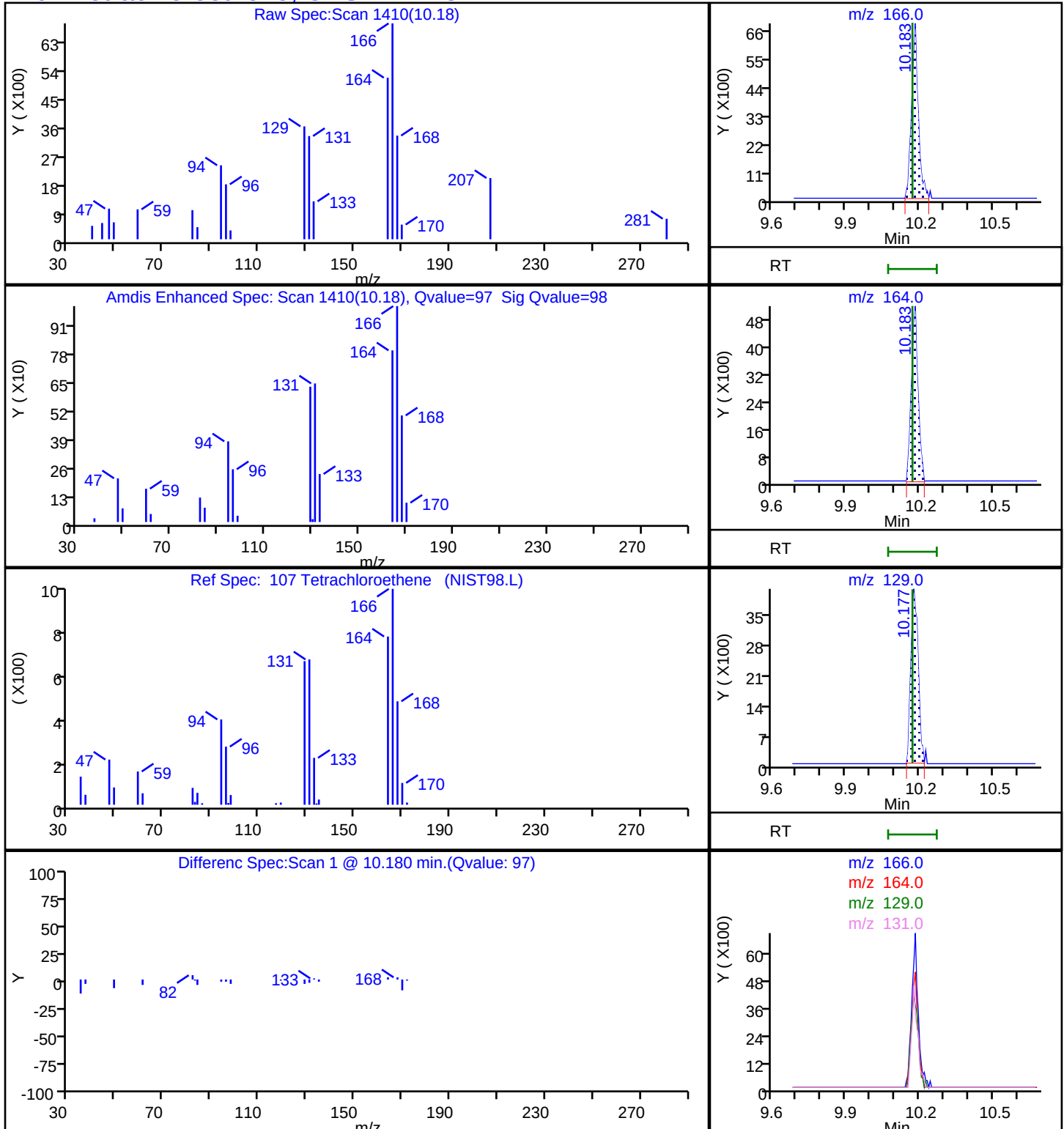
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X22.D

Injection Date: 29-Feb-2024 01:12:30

Instrument ID: 19094

Lims ID: 410-161790-A-11

Lab Sample ID: 410-161790-11

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

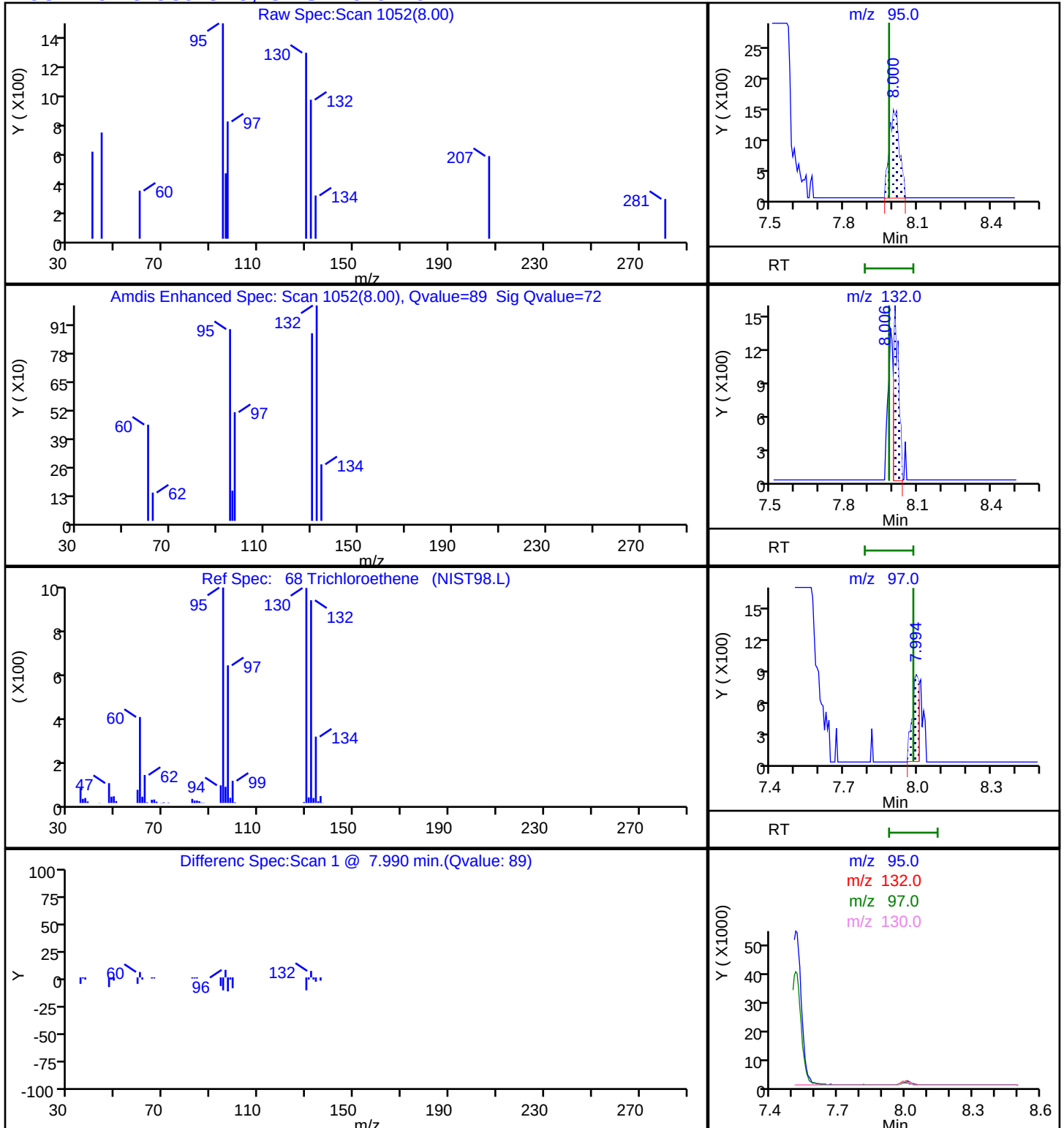
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

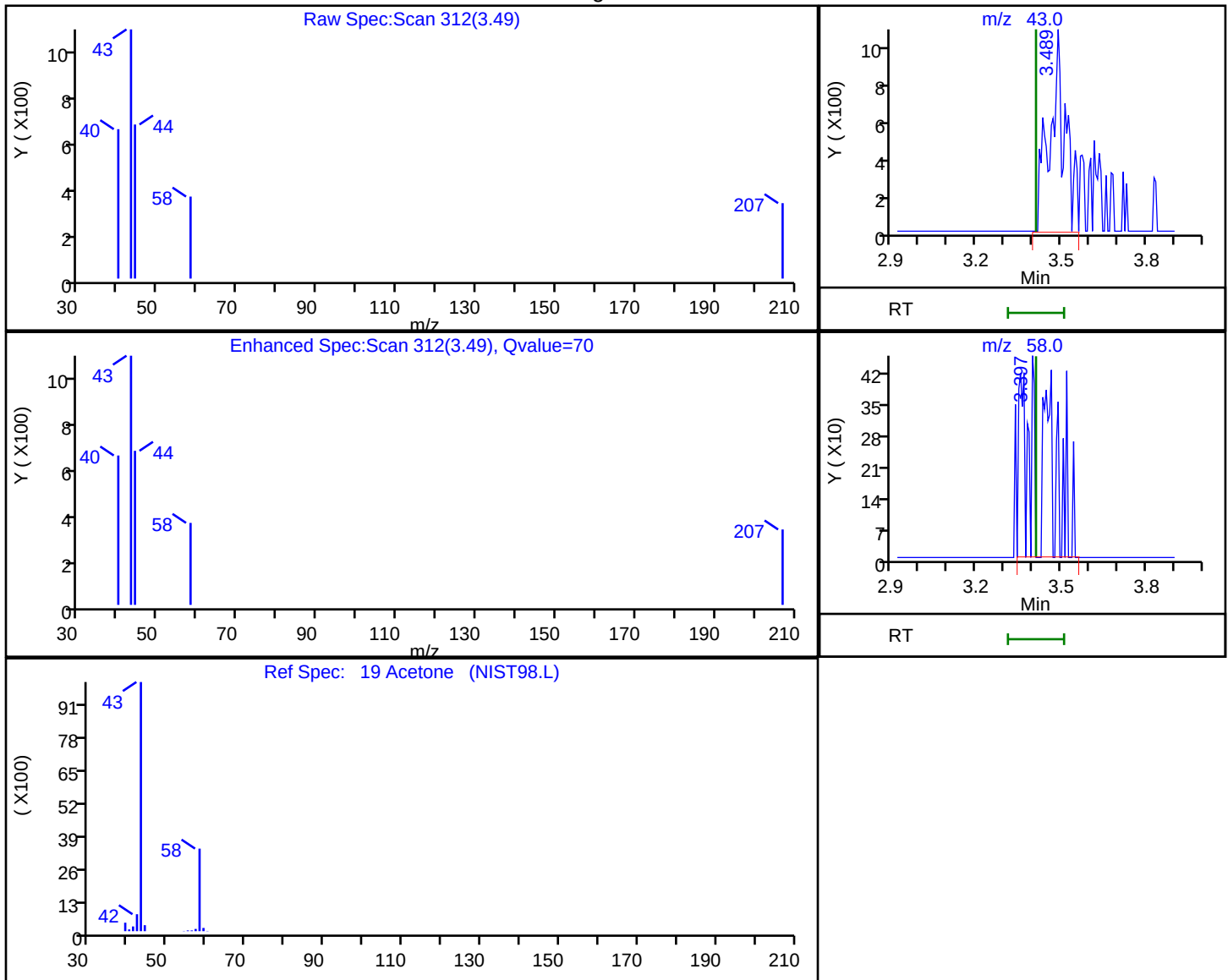
68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X22.D
Injection Date: 29-Feb-2024 01:12:30 Instrument ID: 19094
Lims ID: 410-161790-A-11 Lab Sample ID: 410-161790-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

19 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.49	43.00	4103	0.819461
3.40	58.00	2426	

Reviewer: FQ4L, 29-Feb-2024 13:44:12 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.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-12

Matrix: Water

Lab File ID: HF28X23.D

Analysis Method: 8260D

Date Collected: 02/23/2024 09:45

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 01:32

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 478015

Units: ug/L

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	[^] c *+ cn	0.50	0.10
78-93-3	2-Butanone (MEK)	ND	[^] c cn	5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.4	J	5.0	1.0
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	0.12	J	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	0.29	J	0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-12

Matrix: Water

Lab File ID: HF28X23.D

Analysis Method: 8260D

Date Collected: 02/23/2024 09:45

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 01:32

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 478015

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		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\20240228-107468.b\HF28X23.D
 Lims ID: 410-161790-A-12
 Client ID: HD-COD-SW-29-0/1-0
 Sample Type: Client
 Inject. Date: 29-Feb-2024 01:32:30 ALS Bottle#: 23 Worklist Smp#: 24
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107468-024
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 29-Feb-2024 13:56:26 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 13:56:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.068	2.056	0.012	96	7260	0.1238	
6 Vinyl chloride	62		2.172				ND	
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.562				ND	
17 1,1-Dichloroethene	96		3.385				ND	
19 Acetone	43	3.470	3.410	0.060	65	7562	1.45	
23 Carbon disulfide	76		3.672				ND	7
27 Methylene Chloride	84		4.013				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	4.056	4.038	0.018	26	86404	50.0	
32 Methyl tert-butyl ether	73		4.410				ND	
33 trans-1,2-Dichloroethene	96		4.422				ND	
36 1,1-Dichloroethane	63		5.080				ND	
41 2-Butanone (MEK)	43		5.873				ND	7
42 cis-1,2-Dichloroethene	96	5.921	5.909	0.012	66	3118	0.0647	
48 Chlorobromomethane	128		6.238				ND	
50 Chloroform	83	6.397	6.391	0.006	0	2830	0.0360	
\$ 52 Dibromofluoromethane (Surr)	113	6.616	6.604	0.012	94	431878	9.43	
53 1,1,1-Trichloroethane	97		6.623				ND	7
56 Carbon tetrachloride	117		6.836				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.067	7.061	0.006	70	91087	10.6	
59 Benzene	78		7.098				ND	7
60 1,2-Dichloroethane	62		7.165				ND	
* 64 Fluorobenzene (IS)	96	7.506	7.500	0.006	99	1807424	10.0	
68 Trichloroethene	95	8.000	7.982	0.018	85	3203	0.0658	M
70 1,2-Dichloropropane	63		8.311				ND	
76 Dichlorobromomethane	83		8.659				ND	
80 cis-1,3-Dichloropropene	75		9.214				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.396				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.536	9.531	0.005	93	1817790	9.88	
84 Toluene	92	9.622	9.610	0.012	97	3449	0.0300	
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	93	16050	0.2923	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.573				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.012	11.012	0.000	85	1391780	10.0	
115 Chlorobenzene	112		11.036				ND	
116 1,1,1,2-Tetrachloroethane	131		11.122				ND	
117 Ethylbenzene	91		11.122				ND	7
119 m-Xylene & p-Xylene	106		11.244				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.573				ND	
121 Styrene	104		11.585				ND	
122 Bromoform	173		11.744				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.018	12.018	0.000	92	642167	9.32	
127 1,1,2,2-Tetrachloroethane	83		12.115				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.902	12.896	0.006	94	741616	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 29-Feb-2024 13:56:26

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X23.D

Injection Date: 29-Feb-2024 01:32:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-161790-A-12

Lab Sample ID: 410-161790-12

Worklist Smp#: 24

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

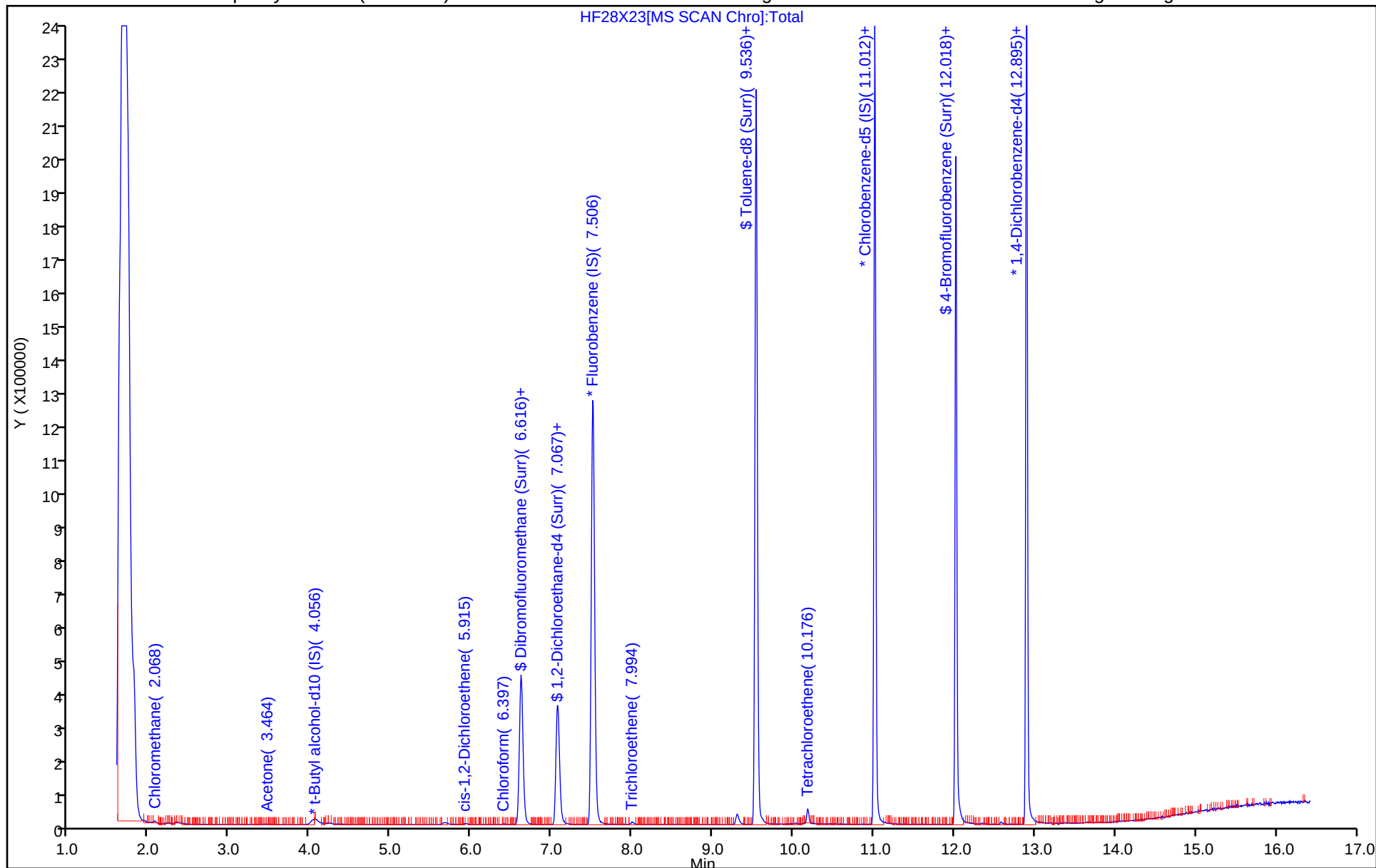
ALS Bottle#: 23

Method: MSV_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\20240228-107468.b\HF28X23.D
Lims ID: 410-161790-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 29-Feb-2024 01:32:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107468-024
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Feb-2024 13:56:26 Calib Date: 17-Oct-2023 09:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 13:56:26

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.43	94.31
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.51
\$ 83 Toluene-d8 (Surr)	10.0	9.88	98.82
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.32	93.23

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X23.D

Injection Date: 29-Feb-2024 01:32:30

Instrument ID: 19094

Lims ID: 410-161790-A-12

Lab Sample ID: 410-161790-12

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

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 25.000 mL

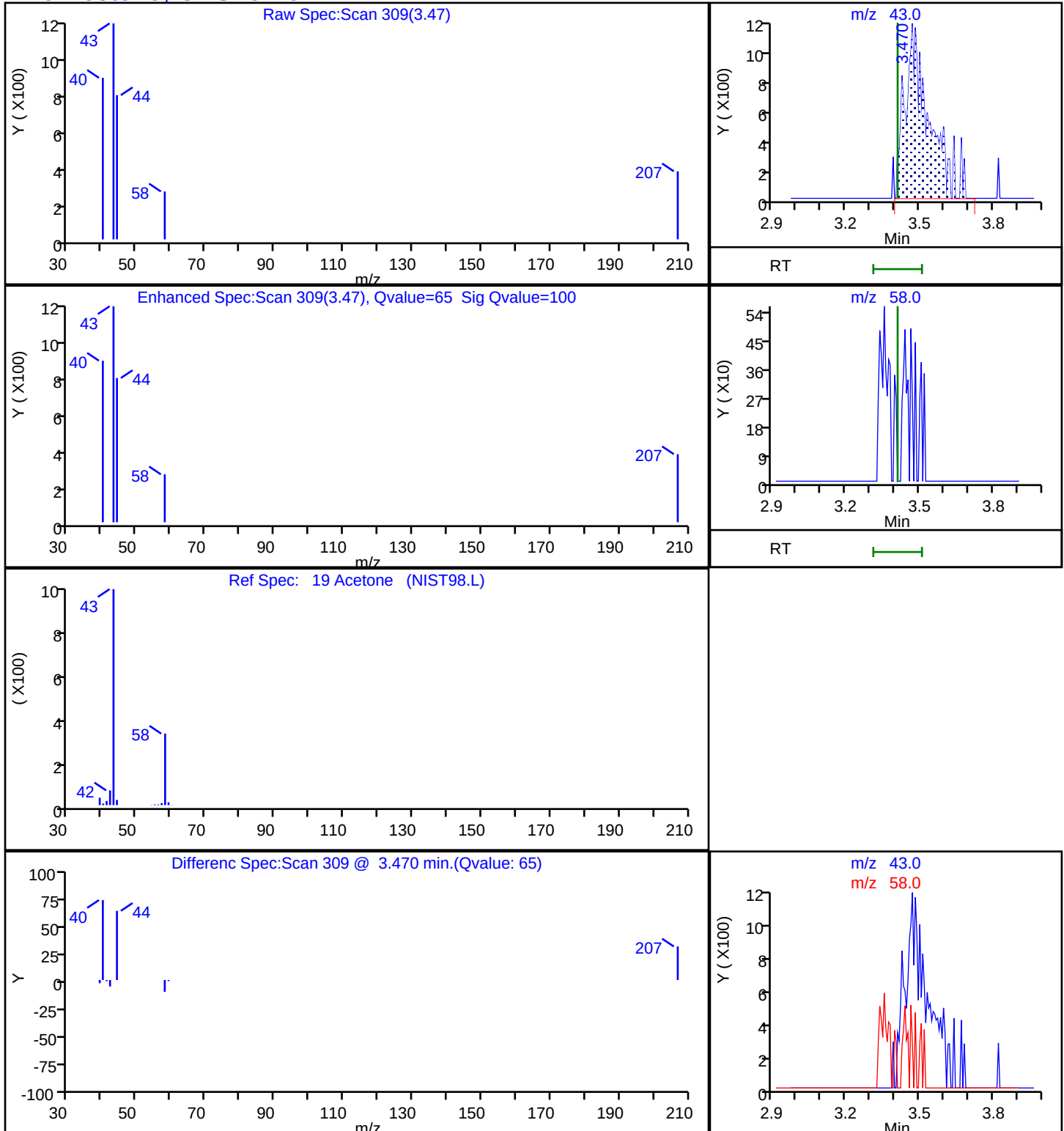
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

19 Acetone, CAS: 67-64-1

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X23.D

Injection Date: 29-Feb-2024 01:32:30

Instrument ID: 19094

Lims ID: 410-161790-A-12

Lab Sample ID: 410-161790-12

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

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 25.000 mL

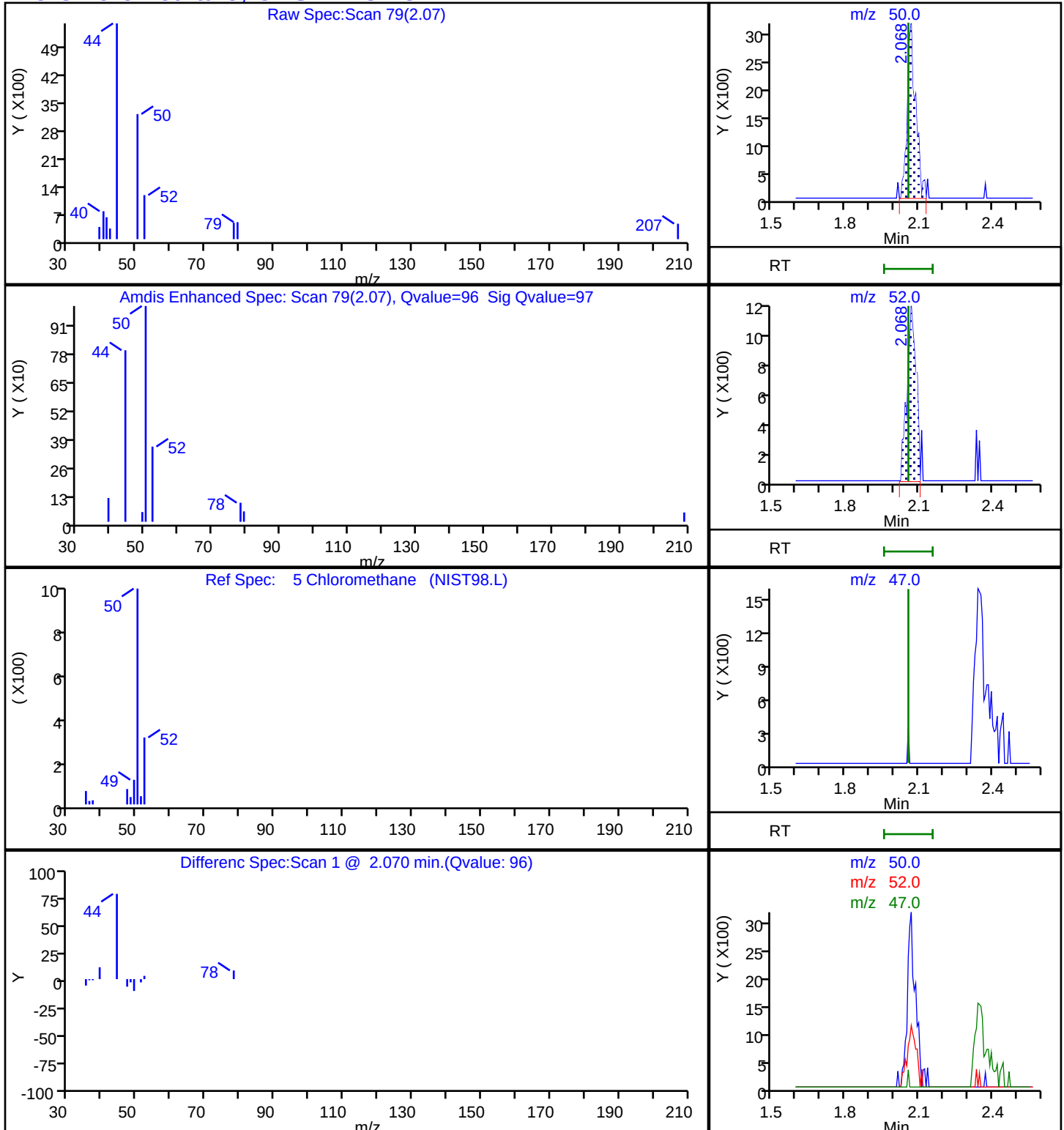
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

5 Chloromethane, CAS: 74-87-3

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X23.D

Injection Date: 29-Feb-2024 01:32:30

Instrument ID: 19094

Lims ID: 410-161790-A-12

Lab Sample ID: 410-161790-12

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

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 25.000 mL

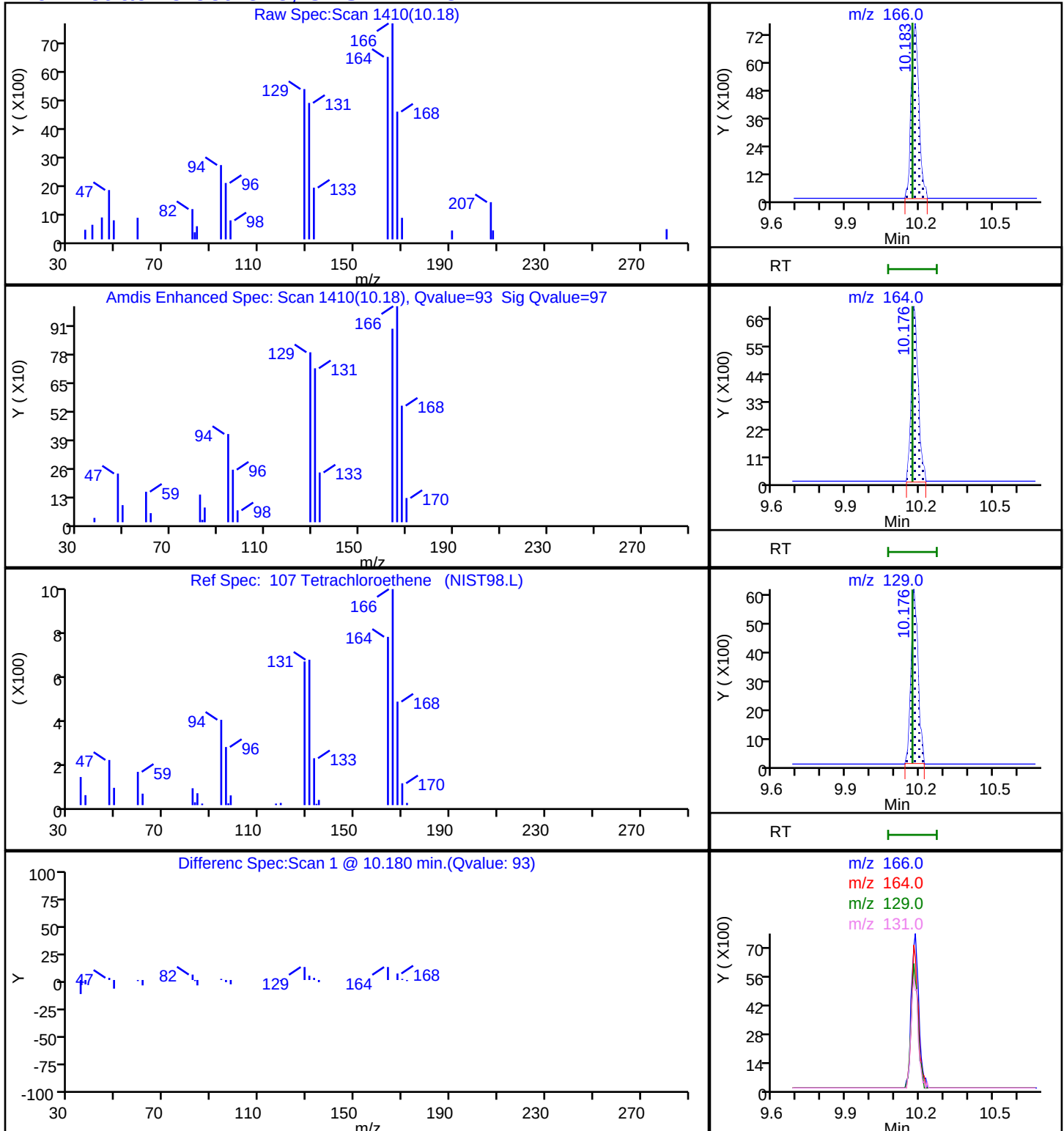
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

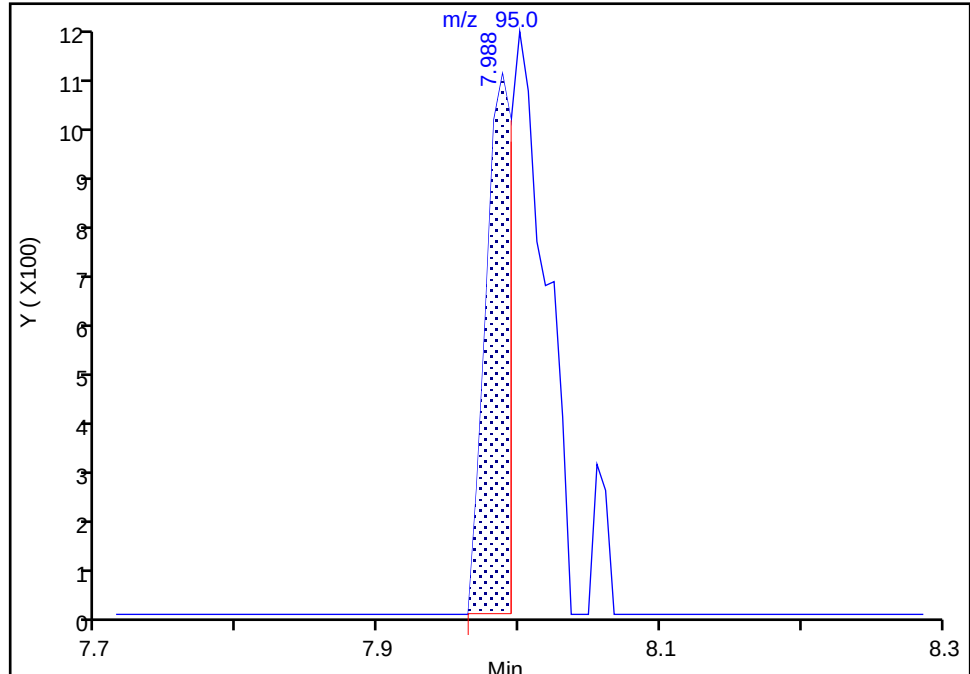
Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X23.D
Injection Date: 29-Feb-2024 01:32:30 Instrument ID: 19094
Lims ID: 410-161790-A-12 Lab Sample ID: 410-161790-12
Client ID: HD-COD-SW-29-0/1-0
Operator ID: gaw91131 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

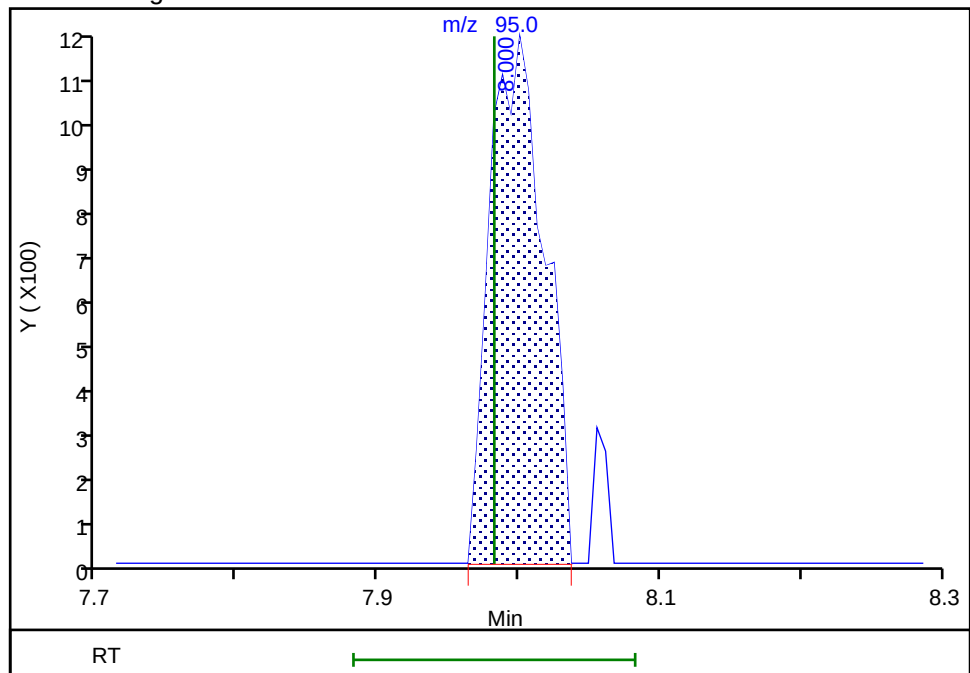
RT: 7.99
Area: 1457
Amount: 0.029948
Amount Units: ug/l

Processing Integration Results



RT: 8.00
Area: 3203
Amount: 0.065836
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 29-Feb-2024 13:56:10 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.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-13

Matrix: Water

Lab File ID: HF28X26.D

Analysis Method: 8260D

Date Collected: 02/23/2024 12:00

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 02:33

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.: 478015

Units: ug/L

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	8.7		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	1.7		0.50	0.10
75-35-4	1,1-Dichloroethene	0.70		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	^c ** cn	0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	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	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.18	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	3.1		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-13

Matrix: Water

Lab File ID: HF28X26.D

Analysis Method: 8260D

Date Collected: 02/23/2024 12:00

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 02:33

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.: 478015

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	4.3		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)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X26.D
 Lims ID: 410-161790-A-13
 Client ID: HD-QC1-0/1-1
 Sample Type: Client
 Inject. Date: 29-Feb-2024 02:33:30 ALS Bottle#: 26 Worklist Smp#: 27
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107468-027
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 29-Feb-2024 14:58:25 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 14:58:39

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		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.562				ND	
17 1,1-Dichloroethene	96	3.403	3.385	0.018	98	27092	0.7032	
19 Acetone	43		3.410				ND	U
23 Carbon disulfide	76		3.672				ND	
27 Methylene Chloride	84		4.013				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	4.025	4.038	-0.013	26	72339	50.0	
32 Methyl tert-butyl ether	73		4.410				ND	7
33 trans-1,2-Dichloroethene	96	4.452	4.422	0.030	7	1995	0.0456	
36 1,1-Dichloroethane	63	5.092	5.080	0.012	96	134531	1.73	
41 2-Butanone (MEK)	43		5.873				ND	
42 cis-1,2-Dichloroethene	96	5.921	5.909	0.012	80	153059	3.12	
48 Chlorobromomethane	128		6.238				ND	
50 Chloroform	83	6.409	6.391	0.018	89	14337	0.1786	
\$ 52 Dibromofluoromethane (Surr)	113	6.622	6.604	0.018	94	455419	9.75	
53 1,1,1-Trichloroethane	97	6.628	6.623	0.005	99	658279	8.74	
56 Carbon tetrachloride	117	6.830	6.836	-0.006	1	2119	0.0336	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.067	7.061	0.006	47	94489	10.7	
59 Benzene	78		7.098				ND	7
60 1,2-Dichloroethane	62		7.165				ND	
* 64 Fluorobenzene (IS)	96	7.512	7.500	0.012	99	1843114	10.0	
68 Trichloroethene	95	7.988	7.982	0.006	98	214926	4.33	
70 1,2-Dichloropropane	63		8.311				ND	
76 Dichlorobromomethane	83		8.659				ND	
80 cis-1,3-Dichloropropene	75		9.214				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.396				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.536	9.531	0.005	93	1858168	9.60	
84 Toluene	92		9.610				ND	7
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	7

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	98	8815834	152.5	E
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	7
112 Ethylene Dibromide	107		10.573				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.012	11.012	0.000	85	1465226	10.0	
115 Chlorobenzene	112		11.036				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.122				ND	
117 Ethylbenzene	91		11.122				ND	7
119 m-Xylene & p-Xylene	106		11.244				ND	
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.573				ND	
121 Styrene	104		11.585				ND	
122 Bromoform	173		11.744				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.018	12.018	0.000	92	657860	9.07	
127 1,1,2,2-Tetrachloroethane	83		12.115				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.902	12.896	0.006	94	764546	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 29-Feb-2024 14:58:39

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X26.D

Injection Date: 29-Feb-2024 02:33:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-161790-A-13

Lab Sample ID: 410-161790-13

Worklist Smp#: 27

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

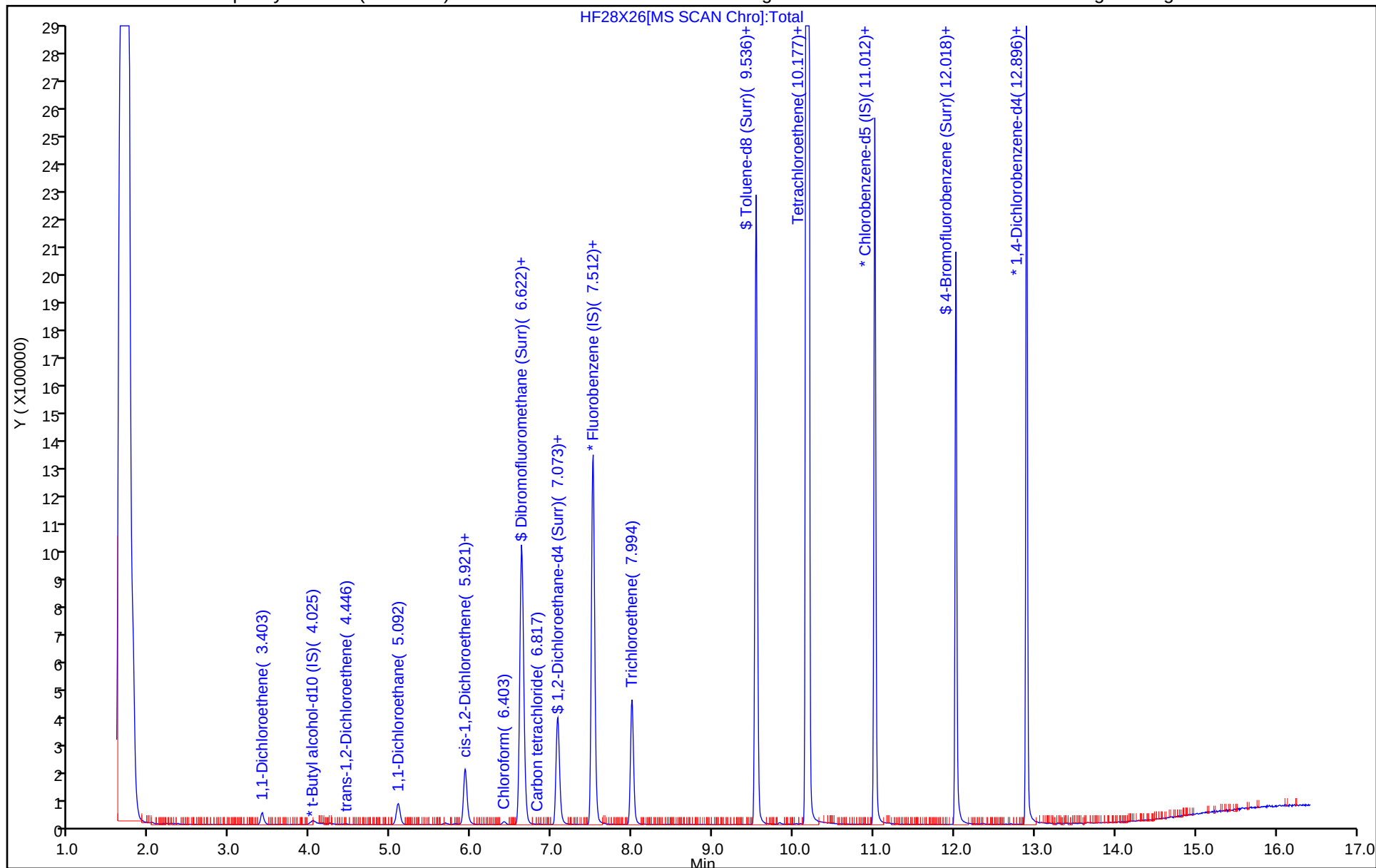
ALS Bottle#: 26

Method: MSV_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\20240228-107468.b\HF28X26.D
Lims ID: 410-161790-A-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 29-Feb-2024 02:33:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107468-027
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Feb-2024 14:58:25 Calib Date: 17-Oct-2023 09:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 14:58:39

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.75	97.52
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	107.33
\$ 83 Toluene-d8 (Surr)	10.0	9.60	95.95
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.07	90.72

Report Date: 29-Feb-2024 14:58:40

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X26.D

Injection Date: 29-Feb-2024 02:33:30

Instrument ID: 19094

Lims ID: 410-161790-A-13

Lab Sample ID: 410-161790-13

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

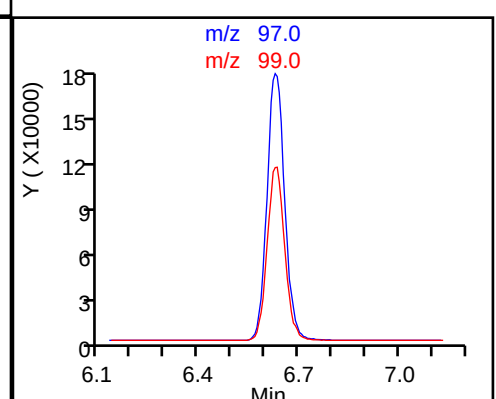
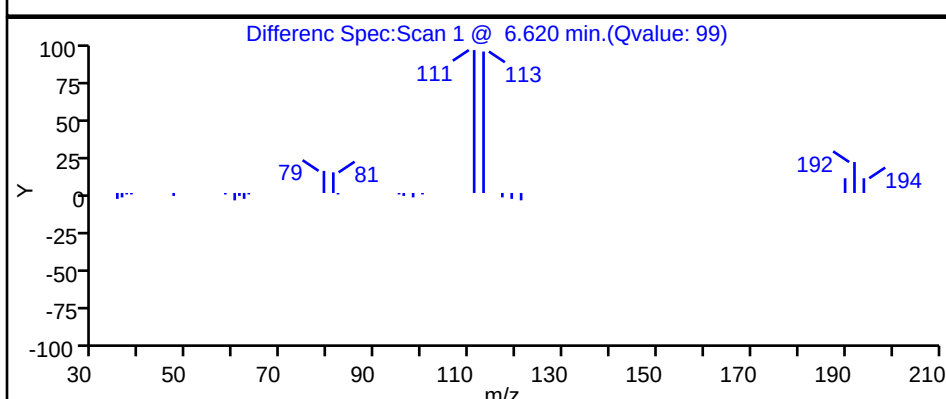
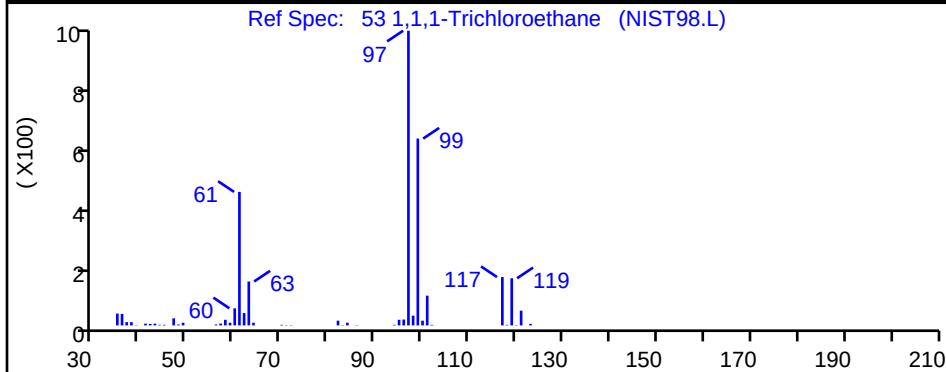
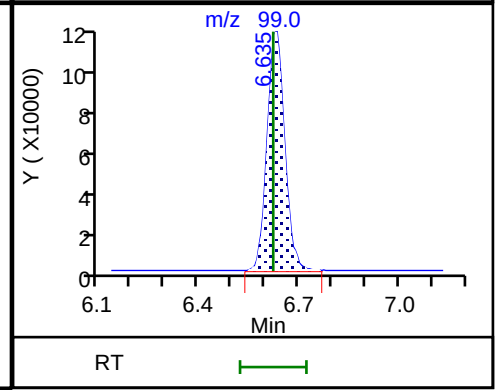
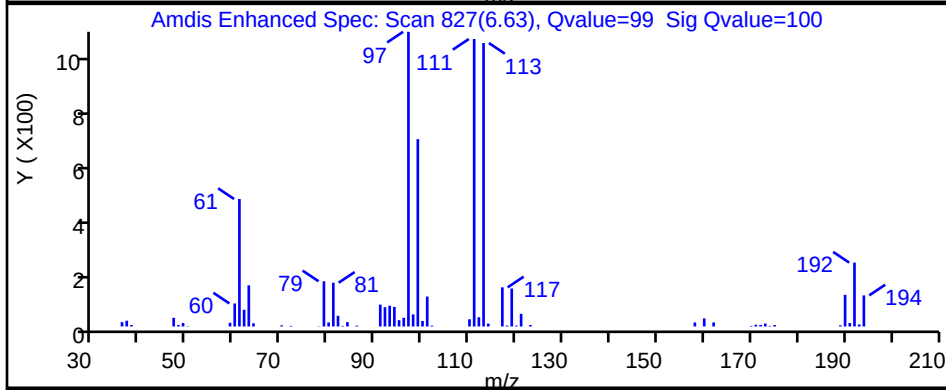
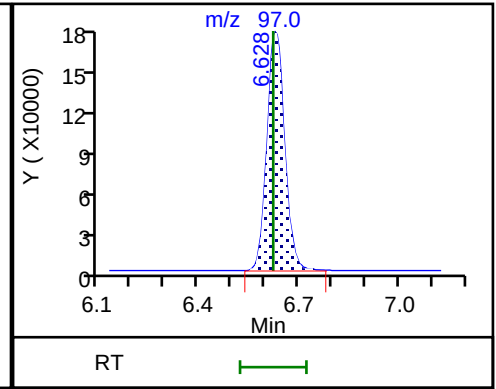
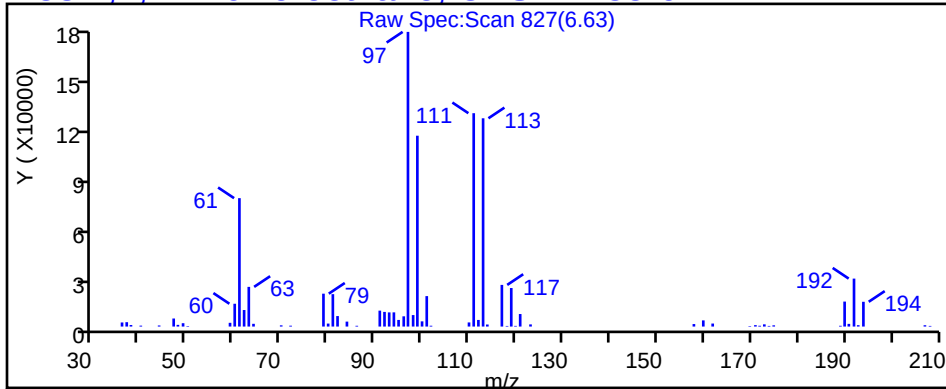
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Report Date: 29-Feb-2024 14:58:40

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X26.D

Injection Date: 29-Feb-2024 02:33:30

Instrument ID: 19094

Lims ID: 410-161790-A-13

Lab Sample ID: 410-161790-13

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

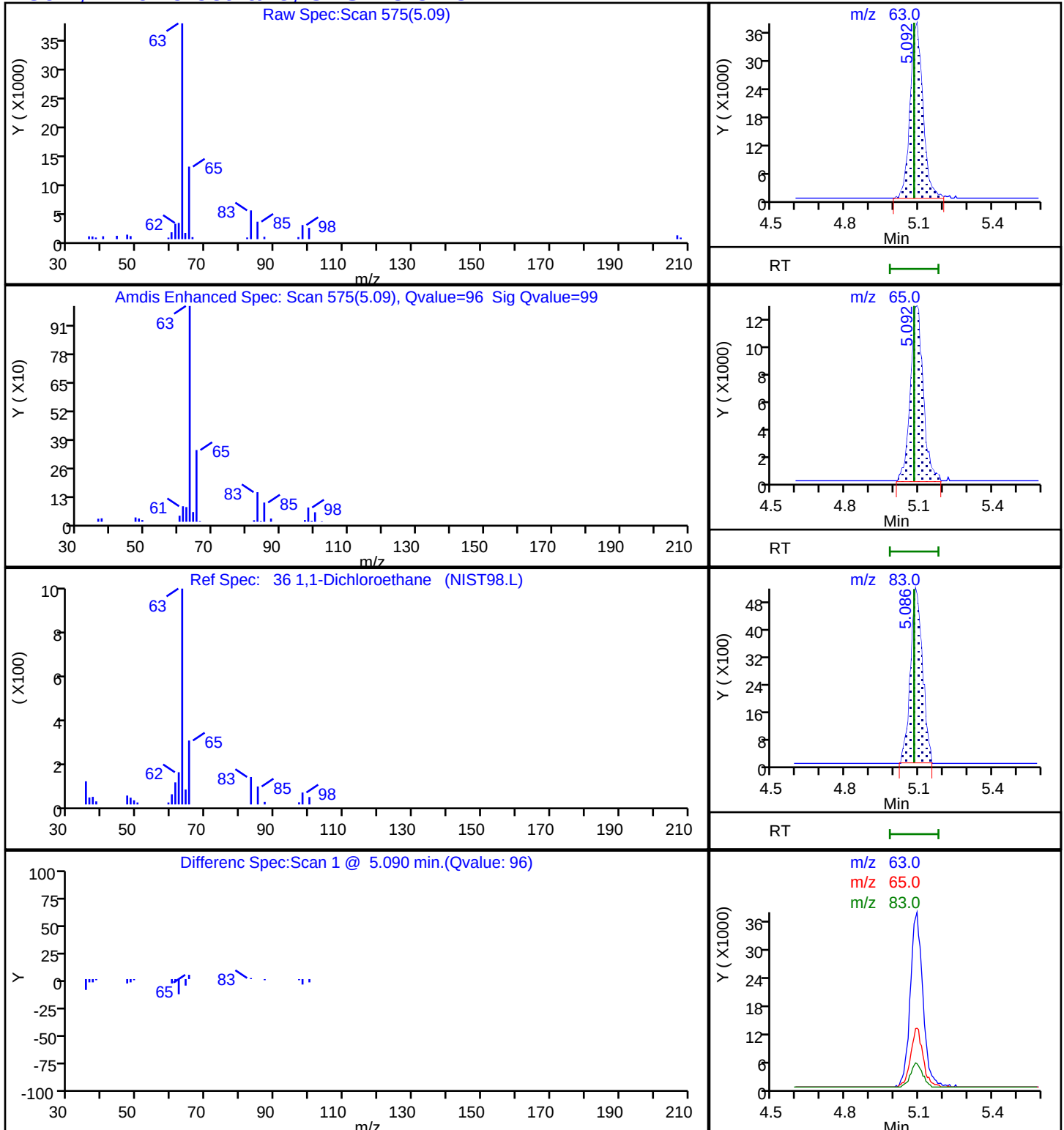
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

36 1,1-Dichloroethane, CAS: 75-34-3

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X26.D

Injection Date: 29-Feb-2024 02:33:30

Instrument ID: 19094

Lims ID: 410-161790-A-13

Lab Sample ID: 410-161790-13

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

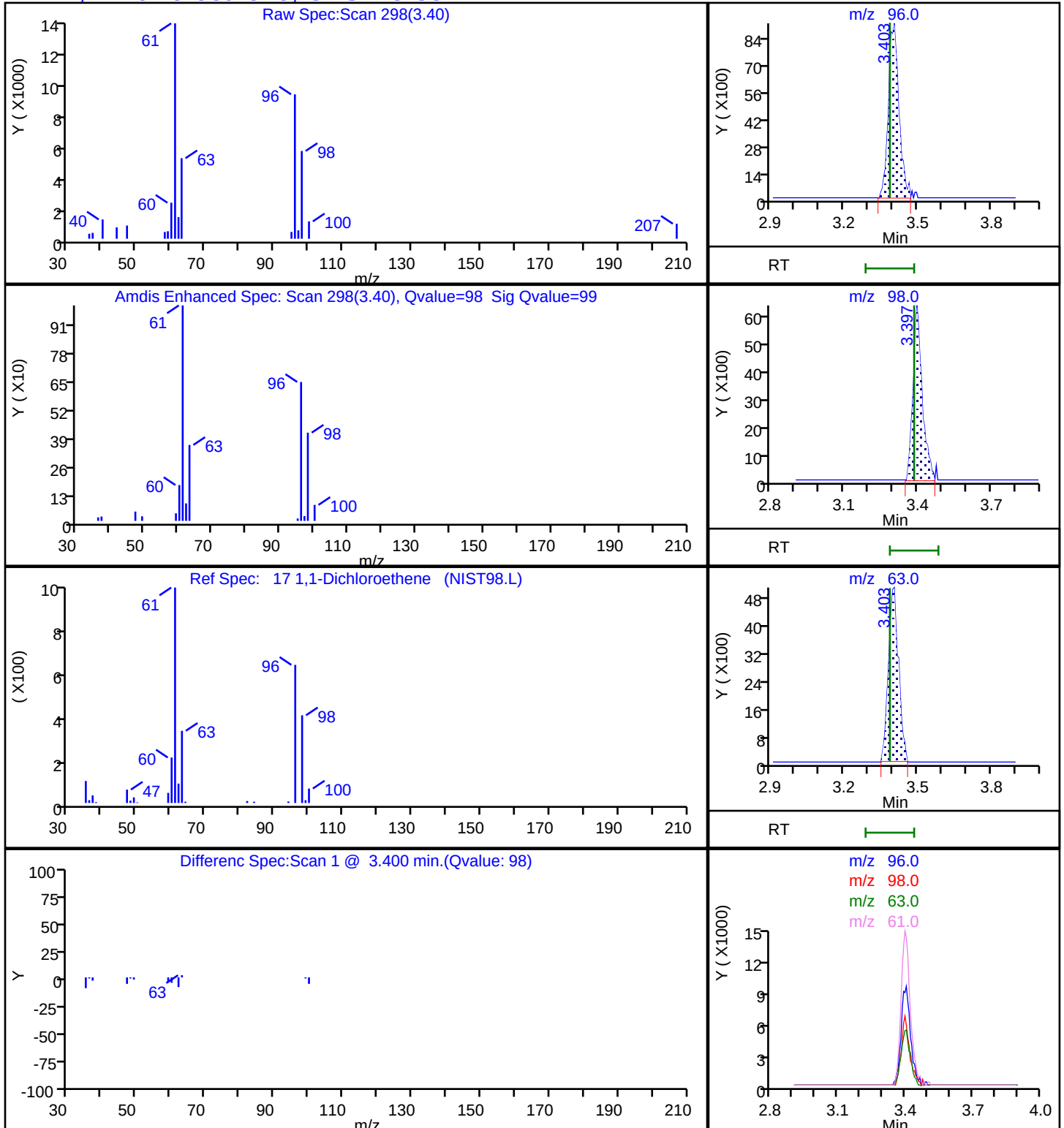
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

17 1,1-Dichloroethene, CAS: 75-35-4

Report Date: 29-Feb-2024 14:58:40

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X26.D

Injection Date: 29-Feb-2024 02:33:30

Instrument ID: 19094

Lims ID: 410-161790-A-13

Lab Sample ID: 410-161790-13

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

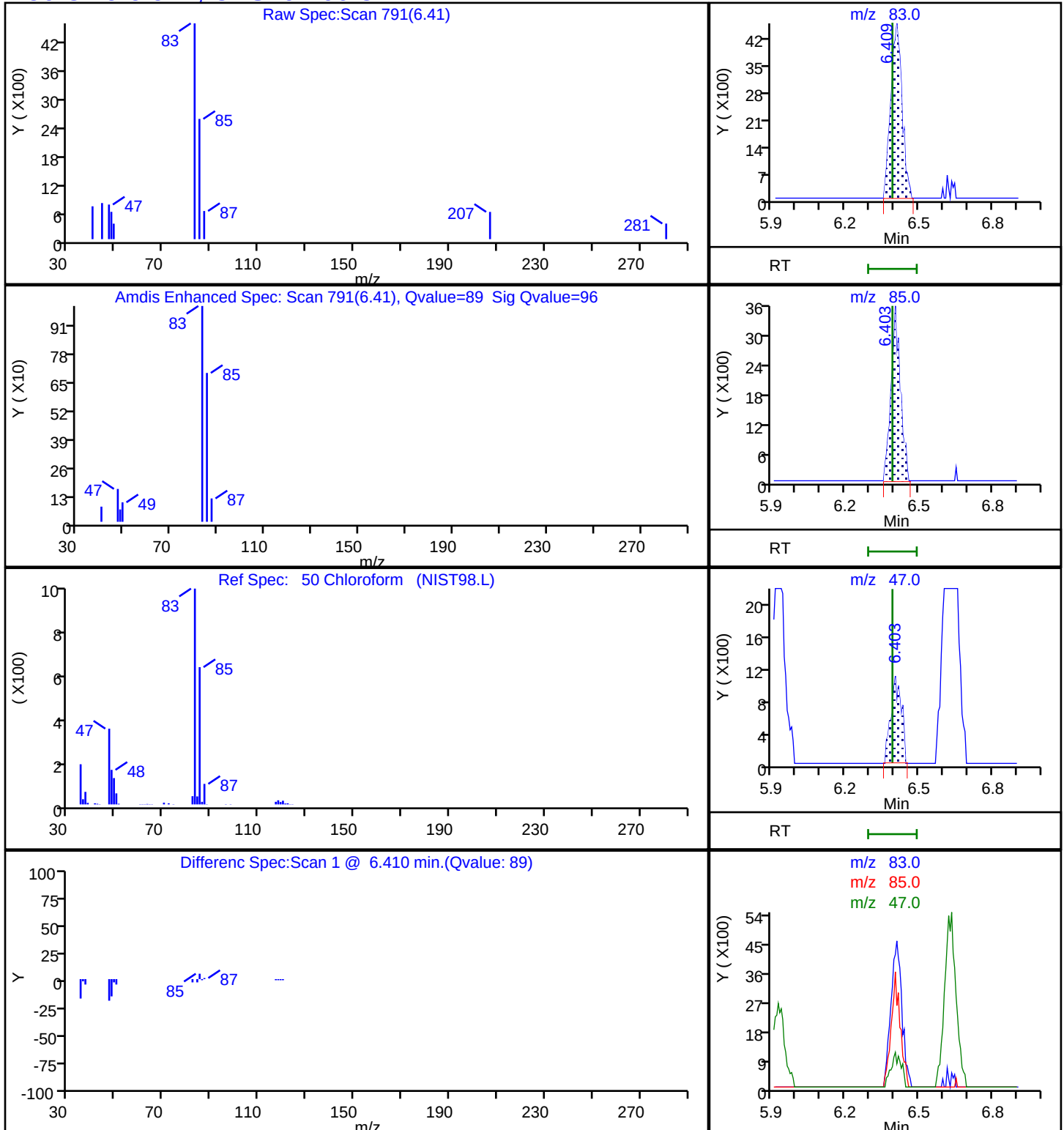
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X26.D

Injection Date: 29-Feb-2024 02:33:30

Instrument ID: 19094

Lims ID: 410-161790-A-13

Lab Sample ID: 410-161790-13

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

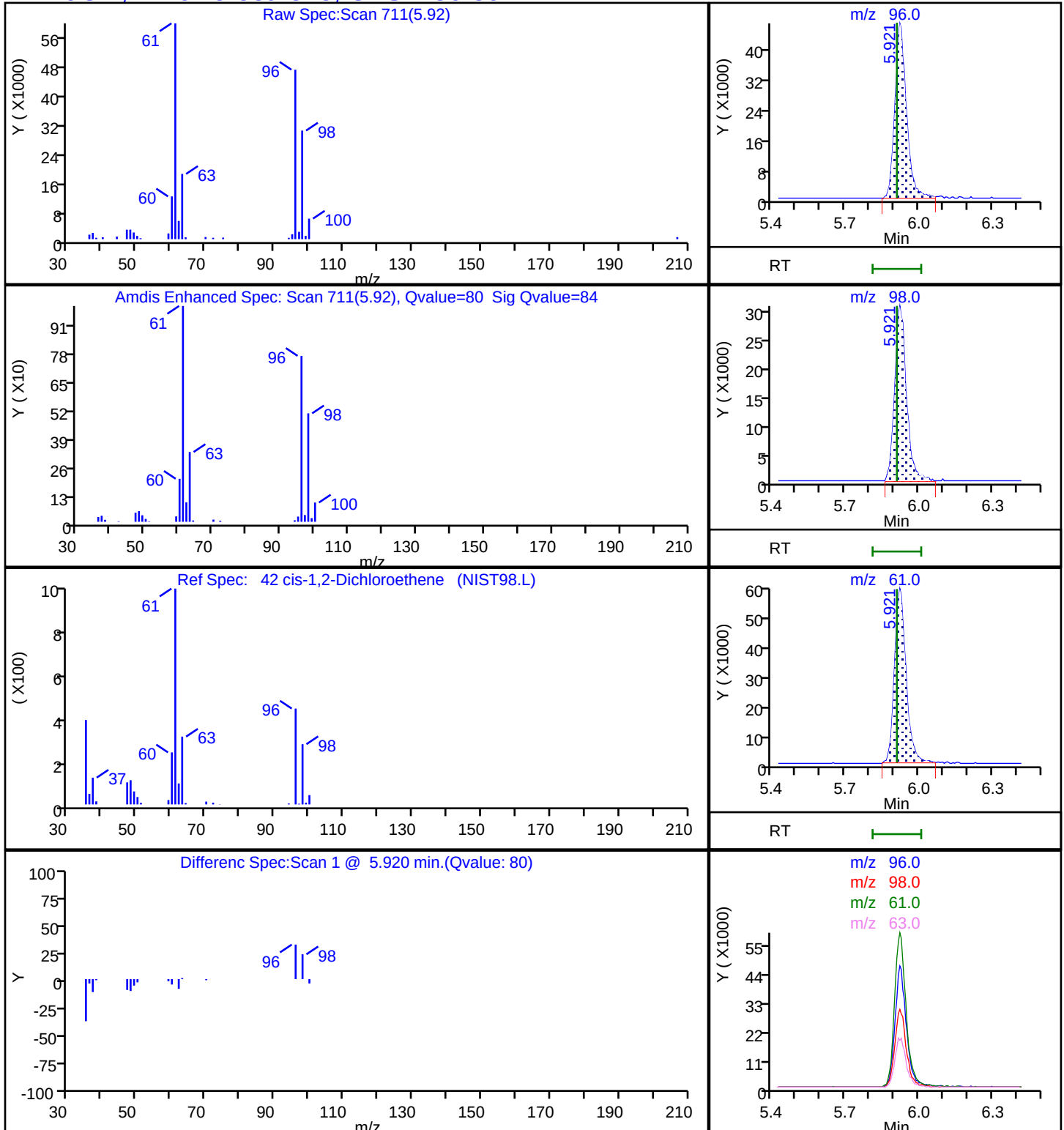
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X26.D

Injection Date: 29-Feb-2024 02:33:30

Instrument ID: 19094

Lims ID: 410-161790-A-13

Lab Sample ID: 410-161790-13

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

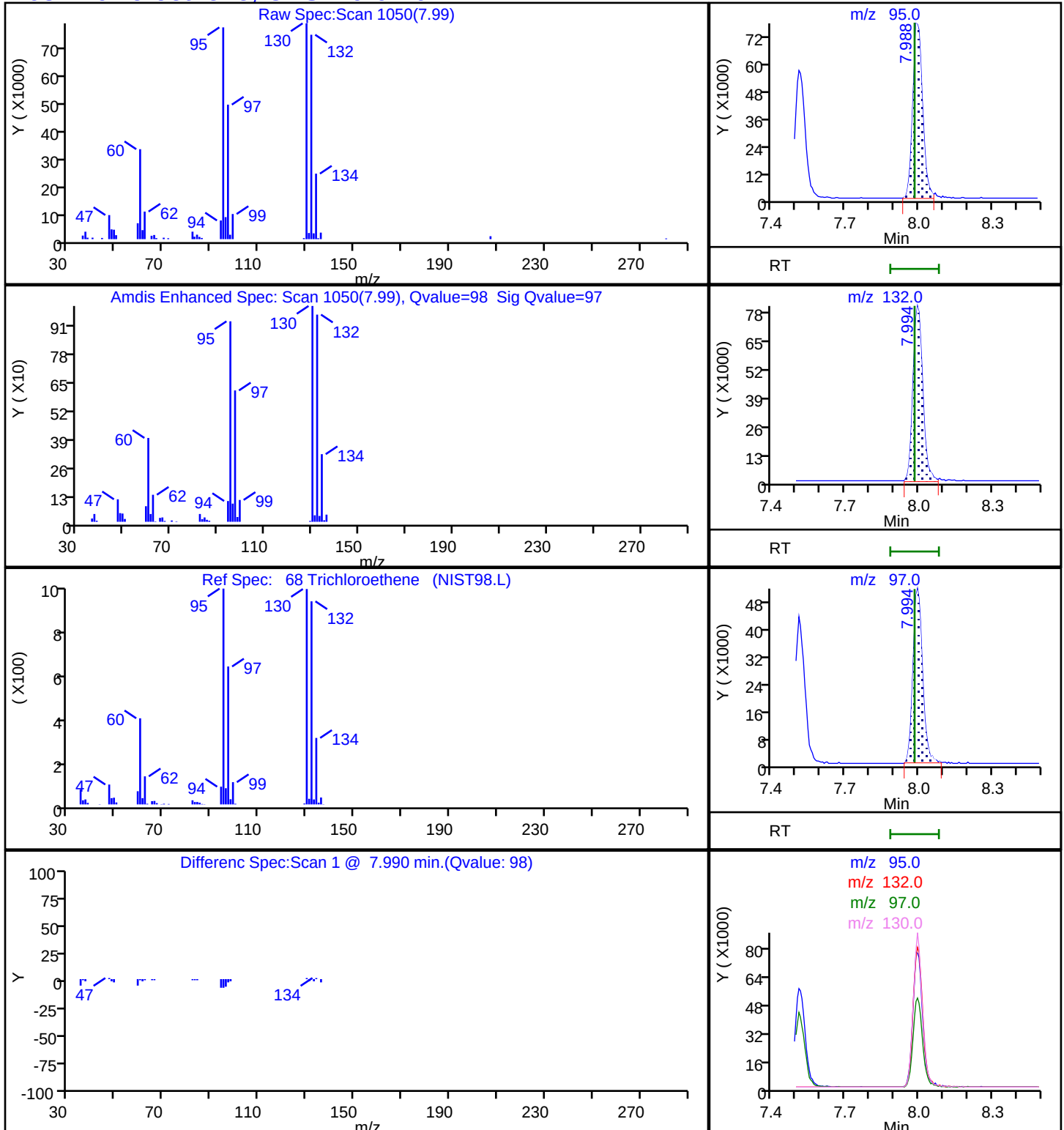
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

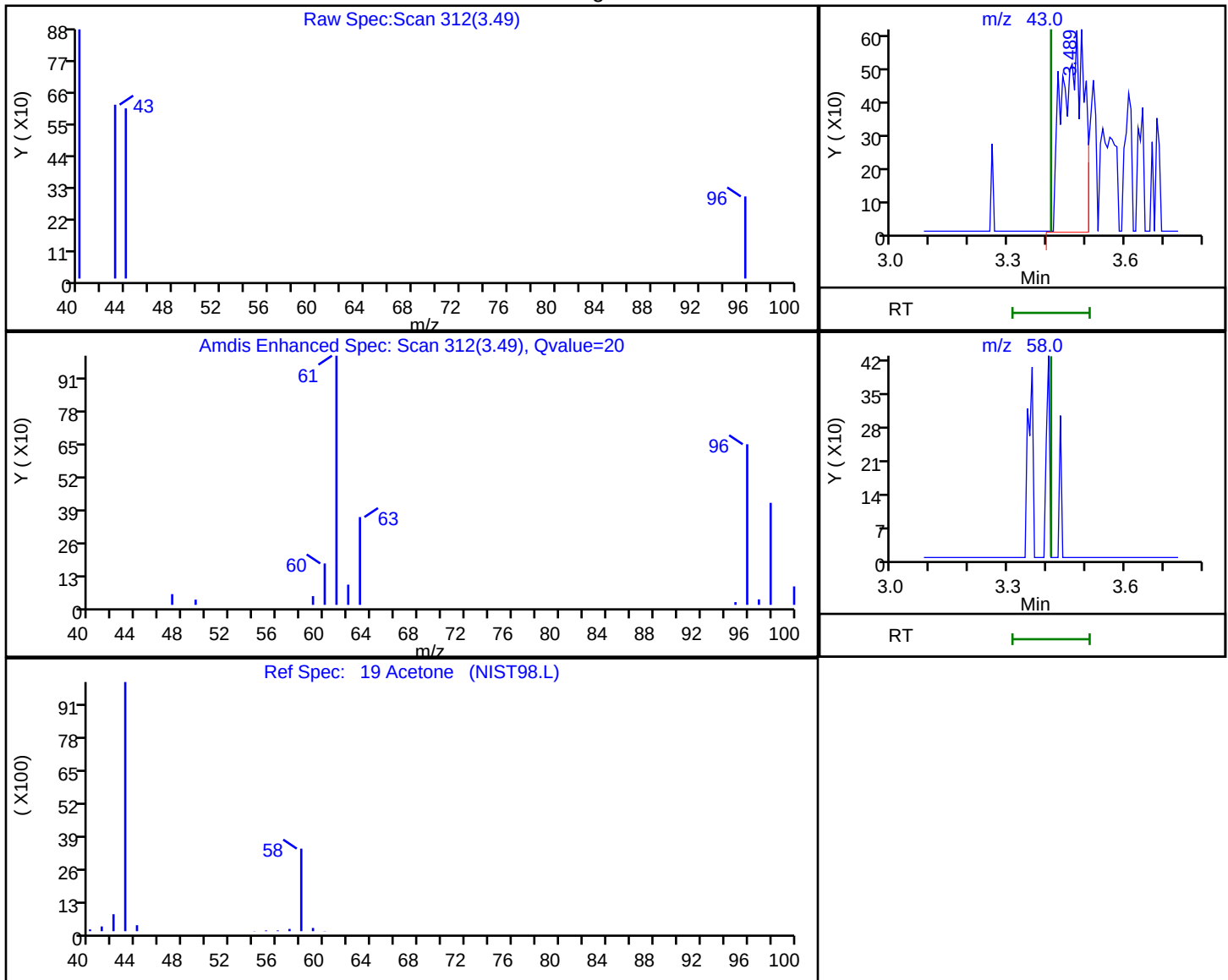
68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X26.D
Injection Date: 29-Feb-2024 02:33:30 Instrument ID: 19094
Lims ID: 410-161790-A-13 Lab Sample ID: 410-161790-13
Client ID: HD-QC1-0/1-1
Operator ID: gaw91131 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) MS Quad

19 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.49	43.00	2344	0.535409
3.41	58.00	0	

Reviewer: FQ4L, 29-Feb-2024 14:57:50 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.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-13 DL

Matrix: Water

Lab File ID: HF28X27.D

Analysis Method: 8260D

Date Collected: 02/23/2024 12:00

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 02:53

Soil Aliquot Vol:

Dilution Factor: 10

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 478015

Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		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\20240228-107468.b\HF28X27.D
 Lims ID: 410-161790-B-13 DL
 Client ID: HD-QC1-0/1-1
 Sample Type: Client
 Inject. Date: 29-Feb-2024 02:53:30 ALS Bottle#: 27 Worklist Smp#: 28
 Purge Vol: 25.000 mL Dil. Factor: 10.0000
 Sample Info: 410-0107468-028
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 29-Feb-2024 15:20:32 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 15:20:32

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		2.172				ND	
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.562				ND	
17 1,1-Dichloroethene	96	3.403	3.385	0.018	91	2398	0.0614	
19 Acetone	43		3.410				ND	
23 Carbon disulfide	76		3.672				ND	7
27 Methylene Chloride	84		4.013				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	4.038	4.038	-0.001	26	66813	50.0	
32 Methyl tert-butyl ether	73		4.410				ND	
33 trans-1,2-Dichloroethene	96		4.422				ND	
36 1,1-Dichloroethane	63	5.080	5.080	0.000	93	13531	0.1712	
41 2-Butanone (MEK)	43		5.873				ND	
42 cis-1,2-Dichloroethene	96	5.921	5.909	0.012	79	15115	0.3034	
48 Chlorobromomethane	128		6.238				ND	
50 Chloroform	83	6.403	6.391	0.012	84	3292	0.0404	
\$ 52 Dibromofluoromethane (Surr)	113	6.616	6.604	0.012	94	443419	9.36	
53 1,1,1-Trichloroethane	97	6.622	6.623	-0.001	41	63747	0.8350	
56 Carbon tetrachloride	117		6.836				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.073	7.061	0.012	47	93215	10.4	
59 Benzene	78		7.098				ND	
60 1,2-Dichloroethane	62		7.165				ND	
* 64 Fluorobenzene (IS)	96	7.506	7.500	0.006	99	1869121	10.0	
68 Trichloroethene	95	7.994	7.982	0.012	96	22262	0.4425	
70 1,2-Dichloropropane	63		8.311				ND	
76 Dichlorobromomethane	83		8.659				ND	
80 cis-1,3-Dichloropropene	75		9.214				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.396				ND	
\$ 83 Toluene-d8 (Surr)	98	9.536	9.531	0.005	93	1871867	9.97	
84 Toluene	92		9.610				ND	
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	10.177	10.171	0.006	98	795048	14.2	
109 2-Hexanone	43		10.299				ND	
111 Chlorodibromomethane	129		10.463				ND	
112 Ethylene Dibromide	107		10.573				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.012	11.012	0.000	86	1420968	10.0	
115 Chlorobenzene	112		11.036				ND	
116 1,1,1,2-Tetrachloroethane	131		11.122				ND	
117 Ethylbenzene	91		11.122				ND	
119 m-Xylene & p-Xylene	106		11.244				ND	
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.573				ND	
121 Styrene	104		11.585				ND	
122 Bromoform	173		11.744				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.018	12.018	0.000	92	636849	9.06	
127 1,1,2,2-Tetrachloroethane	83		12.115				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.902	12.896	0.006	94	741024	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 29-Feb-2024 15:20:33

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X27.D

Injection Date: 29-Feb-2024 02:53:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-161790-B-13 DL

Lab Sample ID: 410-161790-13

Worklist Smp#: 28

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

Purge Vol: 25.000 mL

Dil. Factor: 10.0000

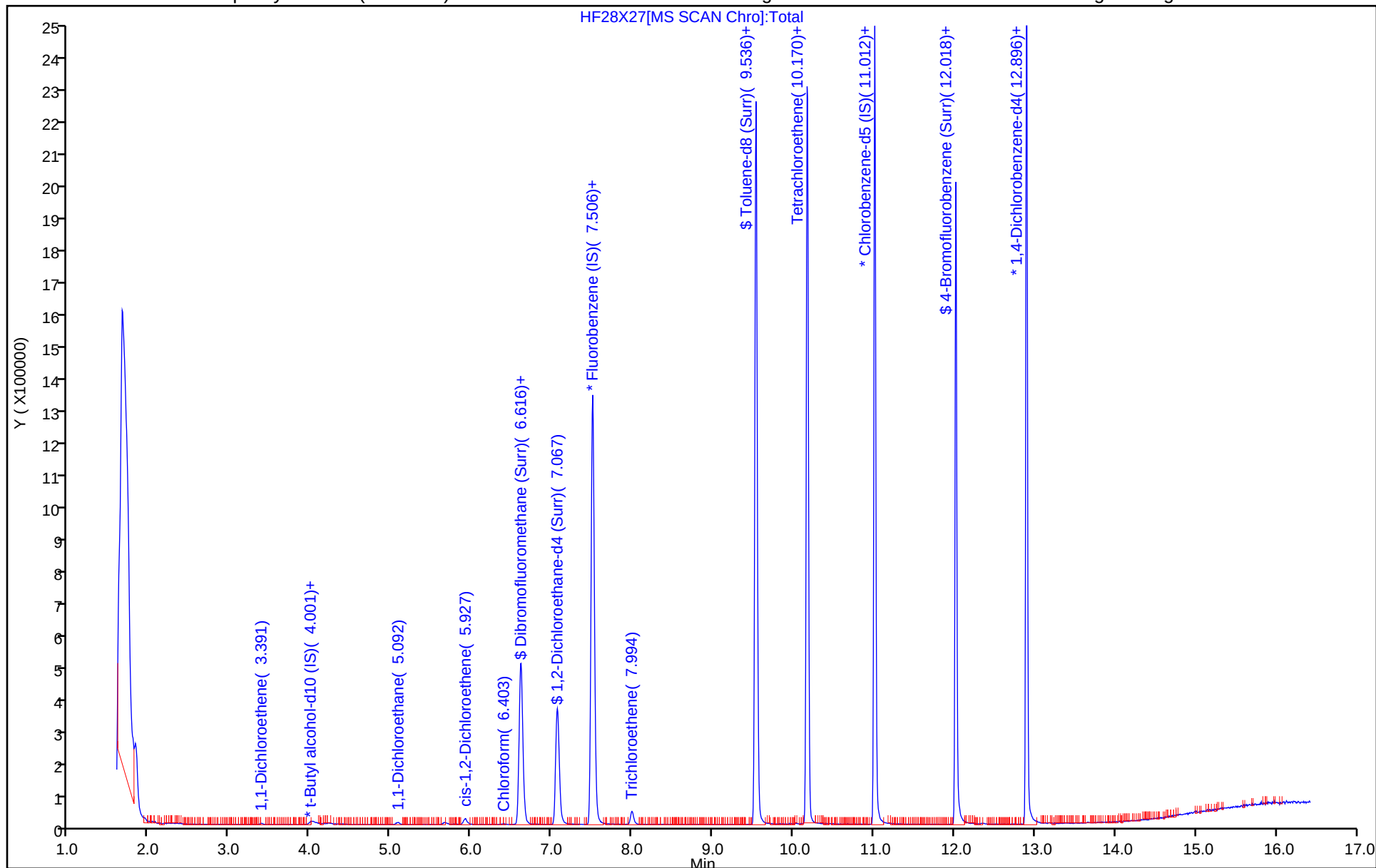
ALS Bottle#: 27

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\20240228-107468.b\HF28X27.D
Lims ID: 410-161790-B-13 DL
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 29-Feb-2024 02:53:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0107468-028
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Feb-2024 15:20:32 Calib Date: 17-Oct-2023 09:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 15:20:32

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.36	93.63
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.41
\$ 83 Toluene-d8 (Surr)	10.0	9.97	99.67
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.06	90.56

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X27.D

Injection Date: 29-Feb-2024 02:53:30

Instrument ID: 19094

Lims ID: 410-161790-B-13 DL

Lab Sample ID: 410-161790-13

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

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 25.000 mL

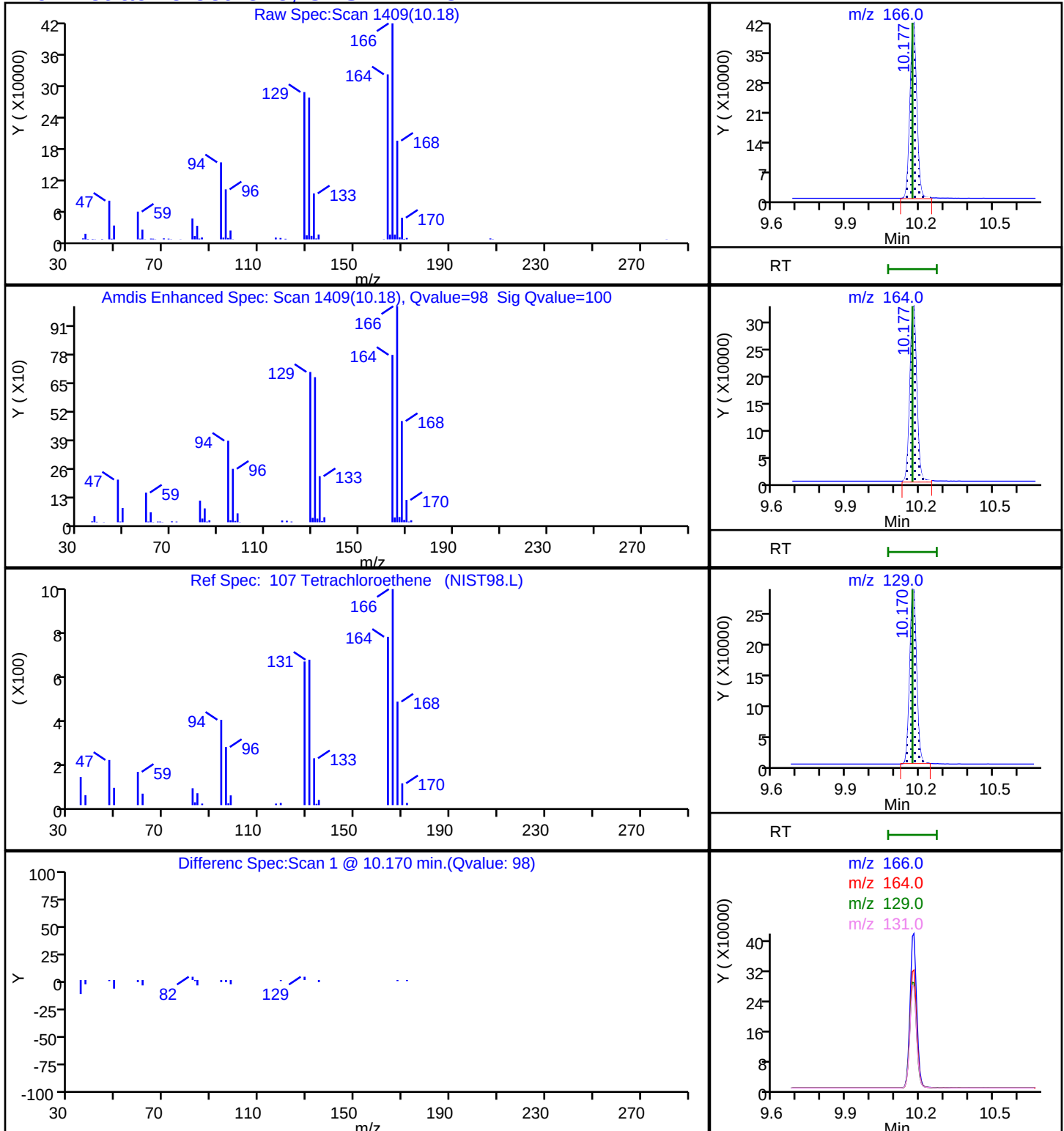
Dil. Factor: 10.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-14

Matrix: Water

Lab File ID: HF28X09.D

Analysis Method: 8260D

Date Collected: 02/23/2024 00:00

Sample wt/vol: 25 (mL)

Date Analyzed: 02/28/2024 20:48

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 478015

Units: ug/L

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	^c *+ cn	0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	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	1.0
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	0.23	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	0.21	J	0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-14

Matrix: Water

Lab File ID: HF28X09.D

Analysis Method: 8260D

Date Collected: 02/23/2024 00:00

Sample wt/vol: 25 (mL)

Date Analyzed: 02/28/2024 20:48

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 478015

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X09.D
 Lims ID: 410-161790-A-14
 Client ID: HD-QC1-0/1-2
 Sample Type: Client
 Inject. Date: 28-Feb-2024 20:48:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107468-010
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 29-Feb-2024 11:25:39 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 11:25:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.068	2.056	0.012	96	2078	0.0351	
6 Vinyl chloride	62		2.172				ND	
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.562				ND	
17 1,1-Dichloroethene	96		3.385				ND	
19 Acetone	43		3.410				ND	
23 Carbon disulfide	76		3.672				ND	7
27 Methylene Chloride	84	4.031	4.013	0.018	93	8426	0.2080	
* 28 t-Butyl alcohol-d10 (IS)	65	4.031	4.038	-0.007	87	85494	50.0	
32 Methyl tert-butyl ether	73	4.434	4.410	0.024	4	5225	0.0543	
33 trans-1,2-Dichloroethene	96		4.422				ND	
36 1,1-Dichloroethane	63		5.080				ND	
41 2-Butanone (MEK)	43		5.873				ND	U
42 cis-1,2-Dichloroethene	96		5.909				ND	
48 Chlorobromomethane	128		6.238				ND	
50 Chloroform	83	6.409	6.391	0.018	91	18265	0.2296	
\$ 52 Dibromofluoromethane (Surr)	113	6.616	6.604	0.012	94	438393	9.47	
53 1,1,1-Trichloroethane	97		6.623				ND	
56 Carbon tetrachloride	117		6.836				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.067	7.061	0.006	46	92200	10.6	
59 Benzene	78		7.098				ND	
60 1,2-Dichloroethane	62		7.165				ND	
* 64 Fluorobenzene (IS)	96	7.512	7.500	0.012	99	1826285	10.0	
68 Trichloroethene	95		7.982				ND	
70 1,2-Dichloropropane	63		8.311				ND	
76 Dichlorobromomethane	83		8.659				ND	
80 cis-1,3-Dichloropropene	75		9.214				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.396				ND	
\$ 83 Toluene-d8 (Surr)	98	9.536	9.531	0.005	93	1874349	9.51	
84 Toluene	92		9.610				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		10.573				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.012	11.012	0.000	85	1490925	10.0	
115 Chlorobenzene	112		11.036				ND	
116 1,1,1,2-Tetrachloroethane	131		11.122				ND	
117 Ethylbenzene	91		11.122				ND	
119 m-Xylene & p-Xylene	106		11.244				ND	
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.573				ND	
121 Styrene	104		11.585				ND	
122 Bromoform	173		11.744				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.018	12.018	0.000	92	694670	9.41	
127 1,1,2,2-Tetrachloroethane	83		12.115				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.902	12.896	0.006	95	797463	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 29-Feb-2024 11:25:39

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X09.D

Injection Date: 28-Feb-2024 20:48:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-161790-A-14

Lab Sample ID: 410-161790-14

Worklist Smp#: 10

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

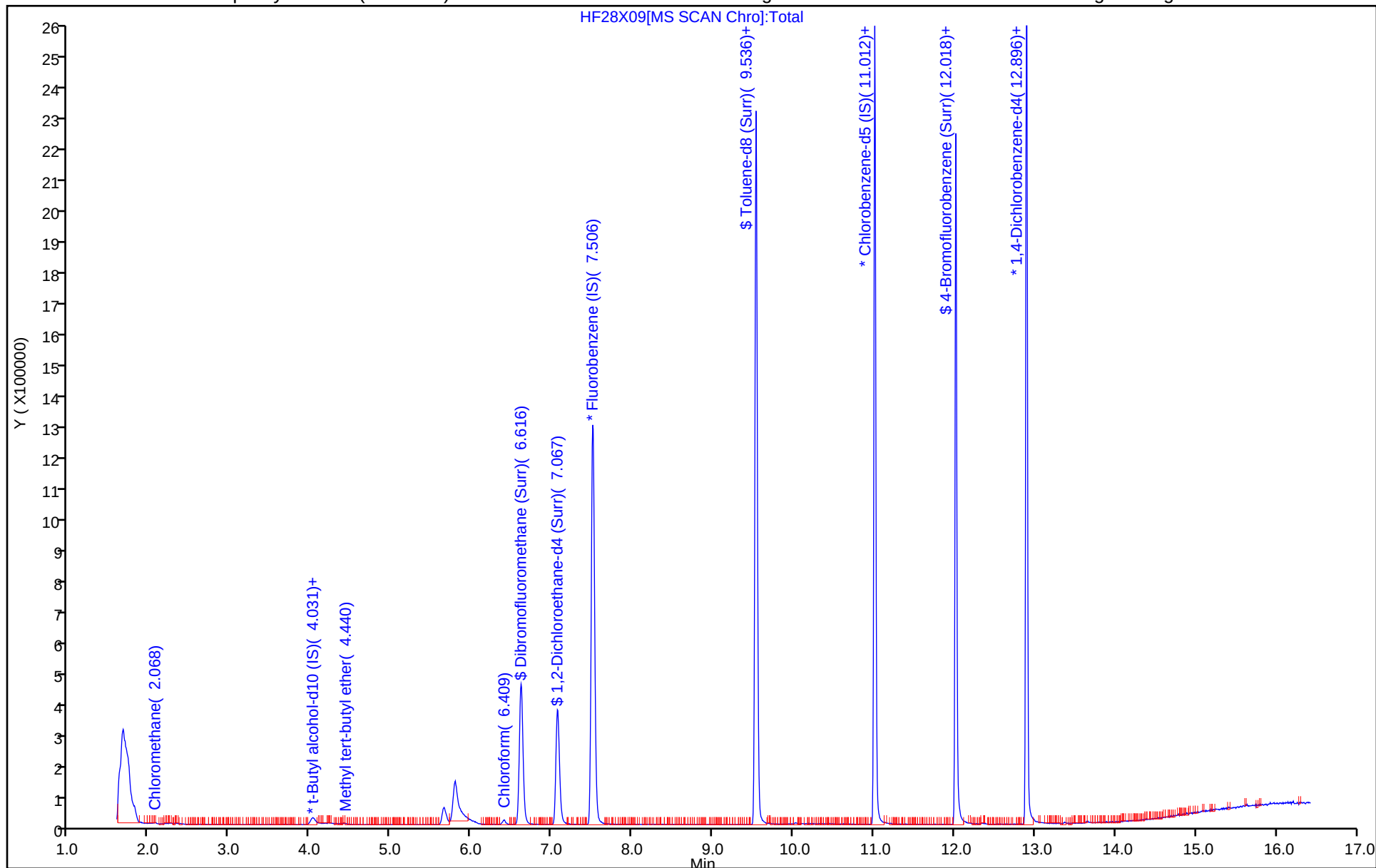
ALS Bottle#: 9

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

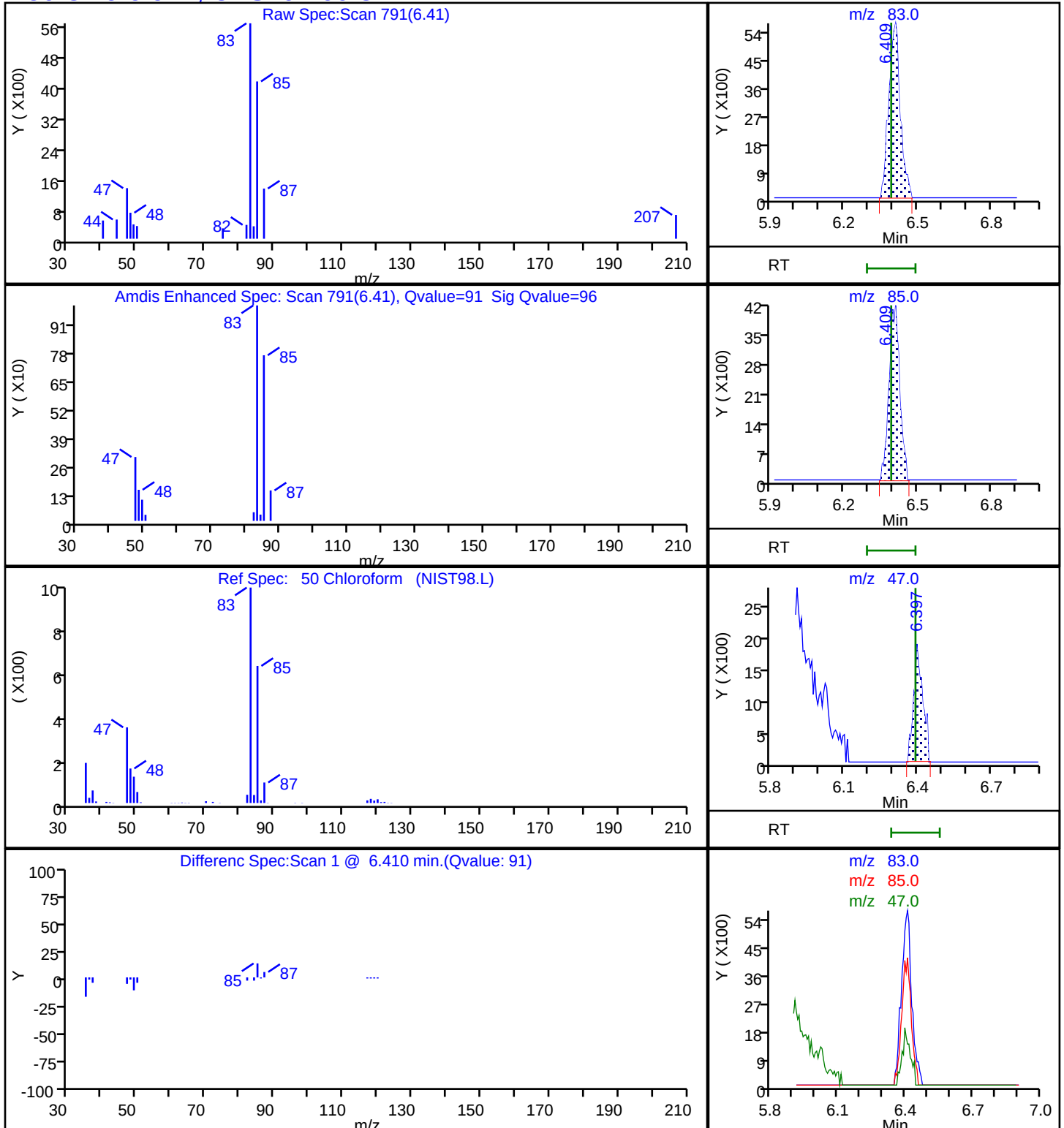
Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X09.D
Lims ID: 410-161790-A-14
Client ID: HD-QC1-0/1-2
Sample Type: Client
Inject. Date: 28-Feb-2024 20:48:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107468-010
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Feb-2024 11:25:39 Calib Date: 17-Oct-2023 09:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: FQ4L

Date: 29-Feb-2024 11:25:39

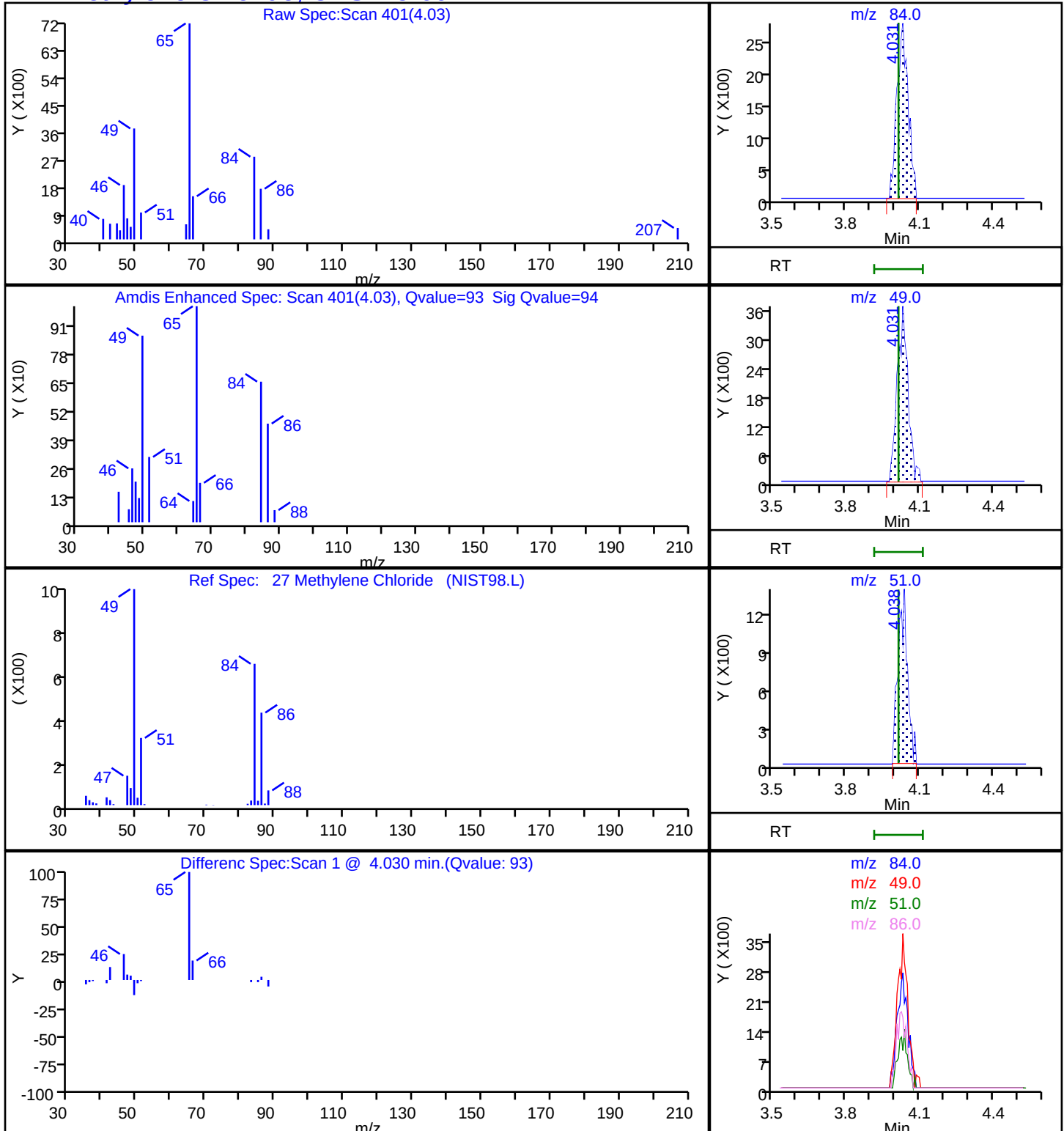
Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.47	94.74
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.69
\$ 83 Toluene-d8 (Surr)	10.0	9.51	95.12
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.41	94.15

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X09.D
Injection Date: 28-Feb-2024 20:48:30 Instrument ID: 19094
Lims ID: 410-161790-A-14 Lab Sample ID: 410-161790-14
Client ID: HD-QC1-0/1-2
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 i.d.) MS Quad

50 Chloroform, CAS: 67-66-3

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X09.D
Injection Date: 28-Feb-2024 20:48:30 Instrument ID: 19094
Lims ID: 410-161790-A-14 Lab Sample ID: 410-161790-14
Client ID: HD-QC1-0/1-2
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 ID) MS Quad

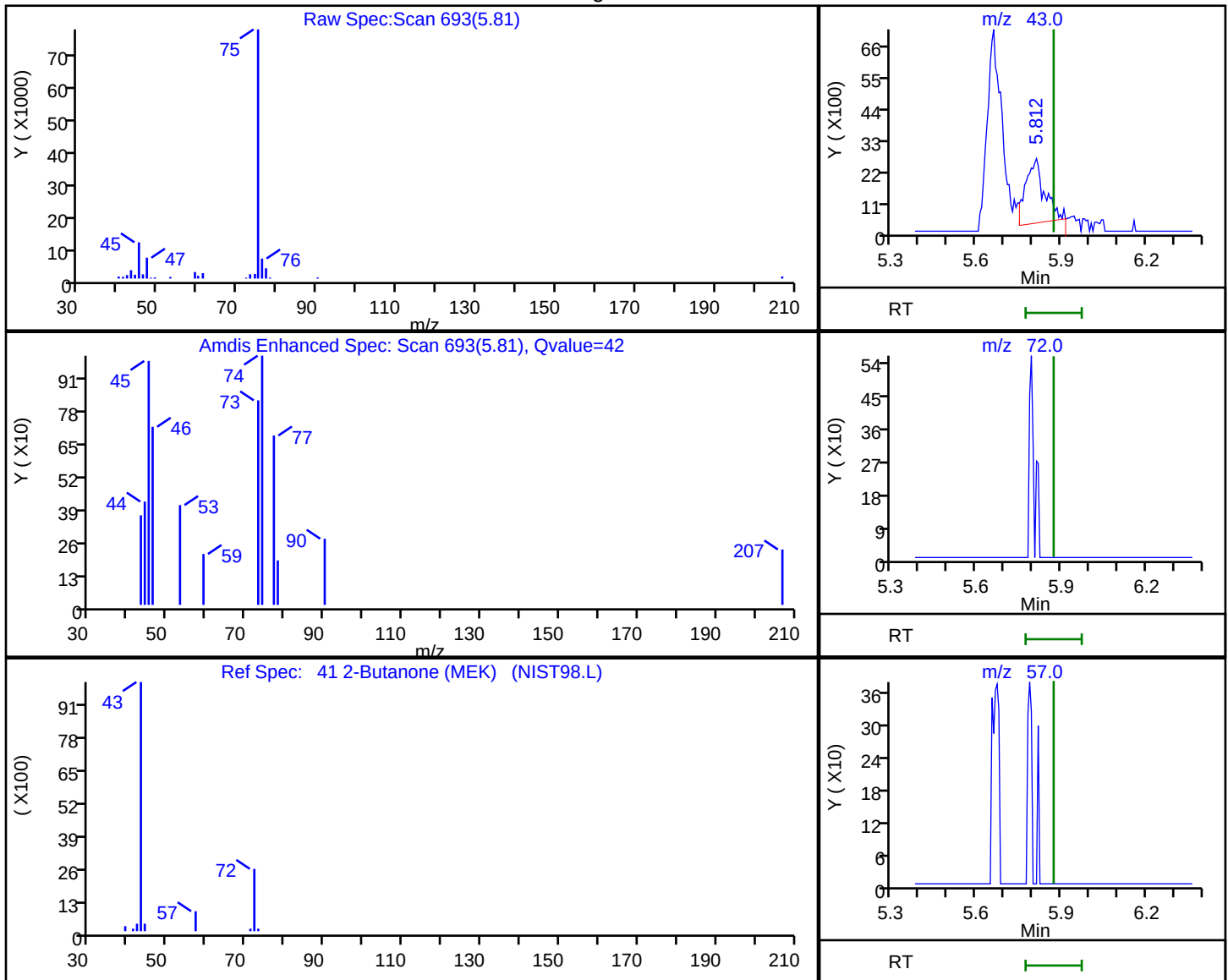
27 Methylene Chloride, CAS: 75-09-2

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X09.D
Injection Date: 28-Feb-2024 20:48:30 Instrument ID: 19094
Lims ID: 410-161790-A-14 Lab Sample ID: 410-161790-14
Client ID: HD-QC1-0/1-2
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 ID) MS Quad

41 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
5.81	43.00	10651	1.259006
5.87	72.00	0	
5.87	57.00	0	

Reviewer: FQ4L, 29-Feb-2024 11:25:25 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 452392
Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 17:46 Calibration End Date: 12/11/2023 19:59 Calibration ID: 56722

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-452392/3	copy_CD11X02.D
Level 2	IC 410-452392/4	CD11X03.D
Level 3	IC 410-452392/5	CD11X04.D
Level 4	IC 410-452392/6	CD11X05.D
Level 5	IC 410-452392/7	CD11X06.D
Level 6	IC 410-452392/8	CD11X07.D
Level 7	IC 410-452392/9	CD11X08.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	++++ 0.3814	0.2329 0.2305	0.3728	0.3454	0.4090	Qua	-0.16 9	0.500 0	-0.010500						0.9990		0.9900
Methoxymethane	0.4245 0.4113	0.3717 0.4132	0.3772	0.4109	0.4633	Ave		0.410 3				7.4	20.0				
Acetonitrile	++++ 0.0149	++++ 0.0135	0.0170	0.0175	0.0159	Ave		0.015 8				10.4	20.0				
Vinyl acetate	0.4062 0.4552	0.3567 0.4510	0.3552	0.4065	0.4370	Ave		0.409 7				10.1	20.0				
Ethyl acetate	0.2161 0.1856	0.1630 0.1802	0.1432	0.1706	0.1868	Ave		0.177 9				12.7	20.0				
2-Chloroethyl vinyl ether	++++ 0.1298	0.0699 0.0792	0.1137	0.1201	0.1361	Qua	-0.06 4	0.169 8	-0.003520						1.0000		0.9900
cis-1,4-Dichloro-2-butene	++++ 0.1134	++++ 0.0699	0.0959	0.0987	0.1175	Ave		0.099 1				18.9	20.0				
Cyclohexanone	0.3325 0.3635	0.3699 0.3550	0.3425	0.3662	0.3847	Ave		0.359 2				4.9	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.: 410-161790-1

Analy Batch No.: 452392

SDG No.:

Instrument ID: 10193

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

Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 17:46

Calibration End Date: 12/11/2023 19:59

Calibration ID: 56722

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-452392/3	copy_CD11X02.D
Level 2	IC 410-452392/4	CD11X03.D
Level 3	IC 410-452392/5	CD11X04.D
Level 4	IC 410-452392/6	CD11X05.D
Level 5	IC 410-452392/7	CD11X06.D
Level 6	IC 410-452392/8	CD11X07.D
Level 7	IC 410-452392/9	CD11X08.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	Qua	+++++ 783832	24232 1188050	77252	143502	418317	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
Methoxymethane	FB	Ave	17780 845220	38670 2129157	78147	170700	473845	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetonitrile	FB	Ave	+++++ 152811	+++++ 346570	17601	36351	81522	+++++ 50.0	+++++ 125	5.00	10.0	25.0
Vinyl acetate	FB	Ave	17016 935464	37106 2324162	73590	168870	446945	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl acetate	FB	Ave	9052 381403	16960 928597	29661	70866	191013	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloroethyl vinyl ether	FB	Qua	+++++ 266720	7273 408242	23557	49903	139226	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,4-Dichloro-2-butene	CBZd5	Ave	+++++ 364200	+++++ 564638	30960	64130	188049	+++++ 20.0	+++++ 50.0	2.00	4.00	10.00
Cyclohexanone	TBAd1 0	Ave	10211 477245	24751 1149678	42886	102609	267583	10.00 500	25.0 1250	50.0	100.0	250

Curve Type Legend:

Ave = Average ISTD
Qua = Quadratic ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 452392
Environment Testing, LLC

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 17:46 Calibration End Date: 12/11/2023 19:59 Calibration ID: 56722

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-452392/3	copy_CD11X02.D
Level 2	IC 410-452392/4	CD11X03.D
Level 3	IC 410-452392/5	CD11X04.D
Level 4	IC 410-452392/6	CD11X05.D
Level 5	IC 410-452392/7	CD11X06.D
Level 6	IC 410-452392/8	CD11X07.D
Level 7	IC 410-452392/9	CD11X08.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #						LVL 7					
Chlorodifluoromethane	+++++ -10.1	15.7	11.0	-10.6	-1.2	1.2	30	50	30	30	30	30
Methoxymethane	3.5 0.7	-9.4	-8.1	0.2	12.9	0.2	50 30	30	30	30	30	30
Acetonitrile	+++++ -14.6	+++++	7.9	11.1	1.2	-5.6	30		50	30	30	30
Vinyl acetate	-0.8 10.1	-12.9	-13.3	-0.8	6.7	11.1	50 30	30	30	30	30	30
Ethyl acetate	21.5 1.3	-8.4	-19.5	-4.1	5.0	4.3	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	+++++ -8.0	17.4	6.7	-7.0	-2.5	1.5	30	50	30	30	30	30
cis-1,4-Dichloro-2-butene	+++++ -29.5	+++++	-3.2	-0.4	18.6	14.5	30		50	30	30	30
Cyclohexanone	-7.4 -1.2	3.0	-4.6	1.9	7.1	1.2	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\copy_CD11X02.D
 Lims ID: IC STD.2 Sm
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 11-Dec-2023 17:46:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0101546-003
 Misc. Info.: IC STD.2 SM
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub43
 Method: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 14-Dec-2023 10:49:15 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1621

First Level Reviewer: DVW2

Date: 12-Dec-2023 14:21:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.787	1.787	0.000	54	5931	0.2000	0.1812	
3 Chlorodifluoromethane	51	1.836	1.836	0.000	97	15949	0.2000	0.4960	
4 Dimethyl ether	45	1.890	1.884	0.006	98	17780	0.2000	0.2069	M
8 2-Chloro-1,1,1-Trifluoroethane	118	2.177	2.183	-0.006	33	12941	0.2000	0.2118	
27 Acetonitrile	41	3.610	3.616	-0.006	22	7454	1.00	2.26	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.866	3.841	0.025	97	153562	50.0	50.0	
38 Vinyl acetate	43	4.853	4.859	-0.006	96	17016	0.2000	0.1983	
46 Ethyl acetate	43	5.780	5.762	0.018	94	9052	0.2000	0.2429	M
63 Isopropyl acetate	43	7.030	7.024	0.006	98	15882	0.2000	0.1994	
* 65 Fluorobenzene (IS)	96	7.334	7.328	0.006	99	2094331	10.0	10.0	
75 n-Propyl acetate	61	8.353	8.353	0.000	98	3326	0.2000	0.1931	
79 2-Chloroethyl vinyl ether	63	8.901	8.901	0.000	91	4414	0.2000	0.5034	
109 n-Butyl acetate	43	10.364	10.358	0.006	97	15603	0.2000	0.2087	
* 111 Chlorobenzene-d5 (IS)	117	10.950	10.944	0.006	85	1627599	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.895	11.895	0.000	96	6163	0.4000	0.3821	
123 Cyclohexanone	55	11.919	11.919	0.000	89	10211	10.0	9.26	
* 139 1,4-Dichlorobenzene-d4	152	12.888	12.882	0.006	94	938102	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00031	Amount Added: 0.20	Units: uL
MSV_V_SMRV4_00065	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00007	Amount Added: 1.60	Units: uL
MSV_HP29_ISO_00004	Amount Added: 1.00	Units: uL
MSV_DME_00050	Amount Added: 0.20	Units: uL

Report Date: 14-Dec-2023 10:49:15

Chrom Revision: 2.3 30-Nov-2023 17:25:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\copy_CD11X02.D

Injection Date: 11-Dec-2023 17:46:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: IC STD.2 Sm

Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

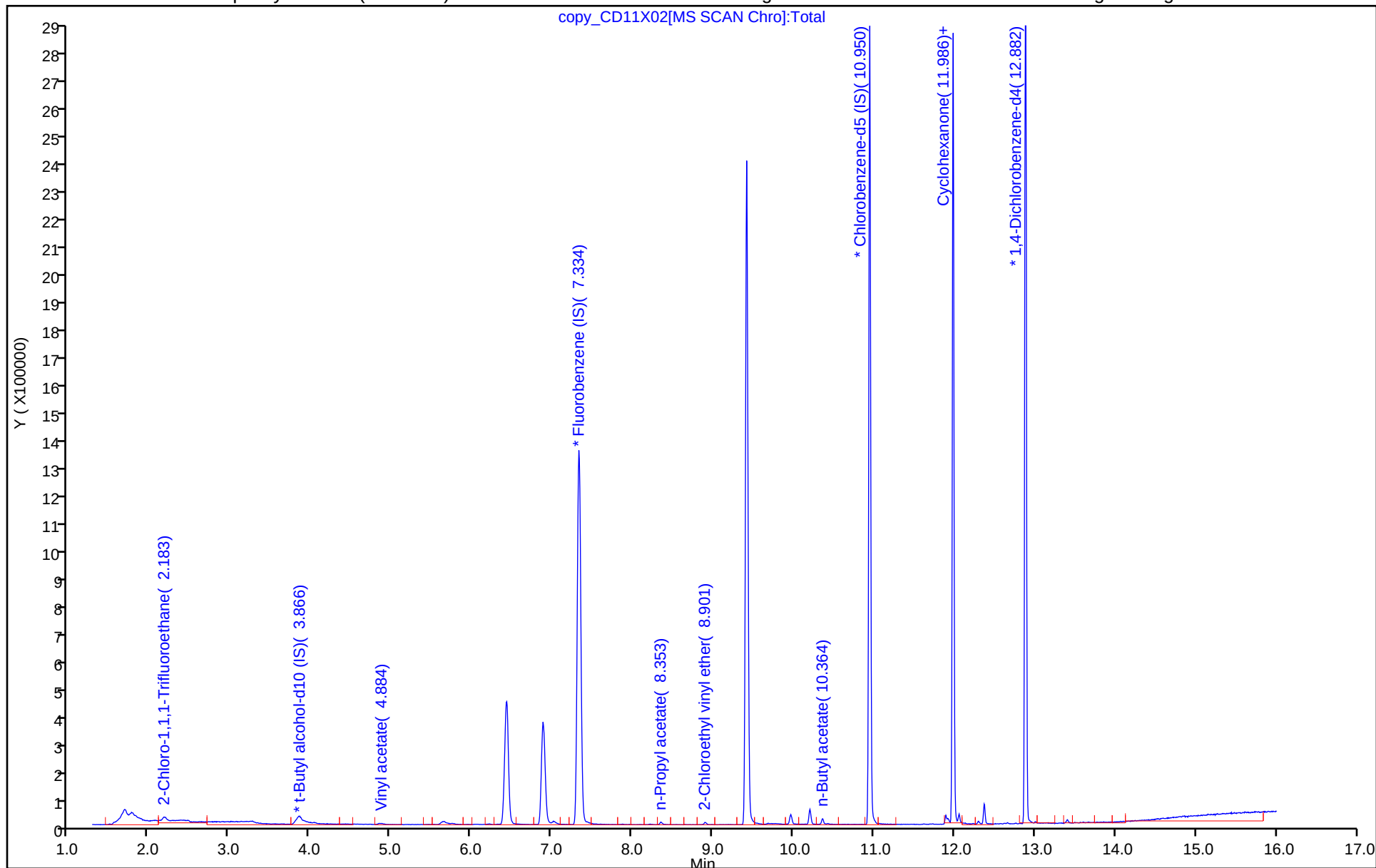
ALS Bottle#: 2

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

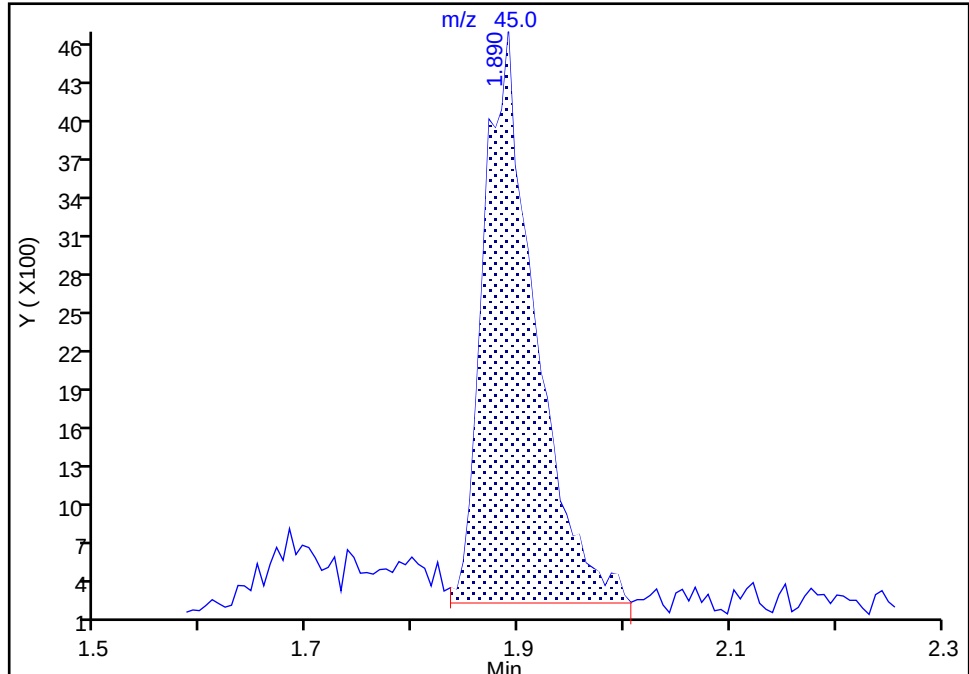
Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\copy_CD11X02.D
Injection Date: 11-Dec-2023 17:46:30 Instrument ID: 10193
Lims ID: IC STD.2 Sm
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

4 Dimethyl ether, CAS: 115-10-6

Signal: 1

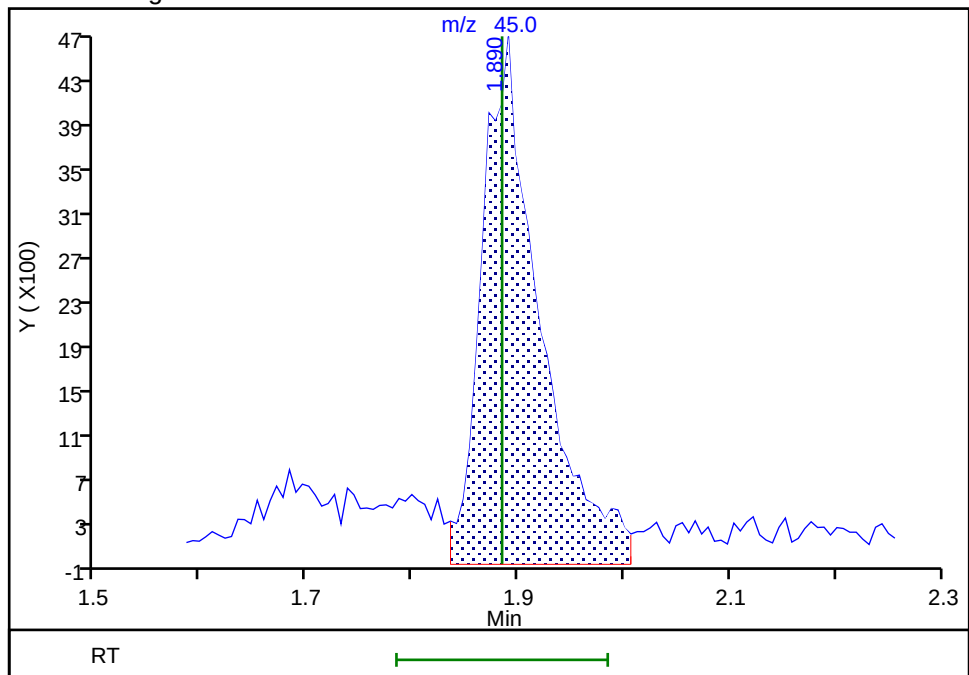
RT: 1.89
Area: 15028
Amount: 0.000412
Amount Units: ug/l

Processing Integration Results



RT: 1.89
Area: 17780
Amount: 0.206920
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 10:42:19 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

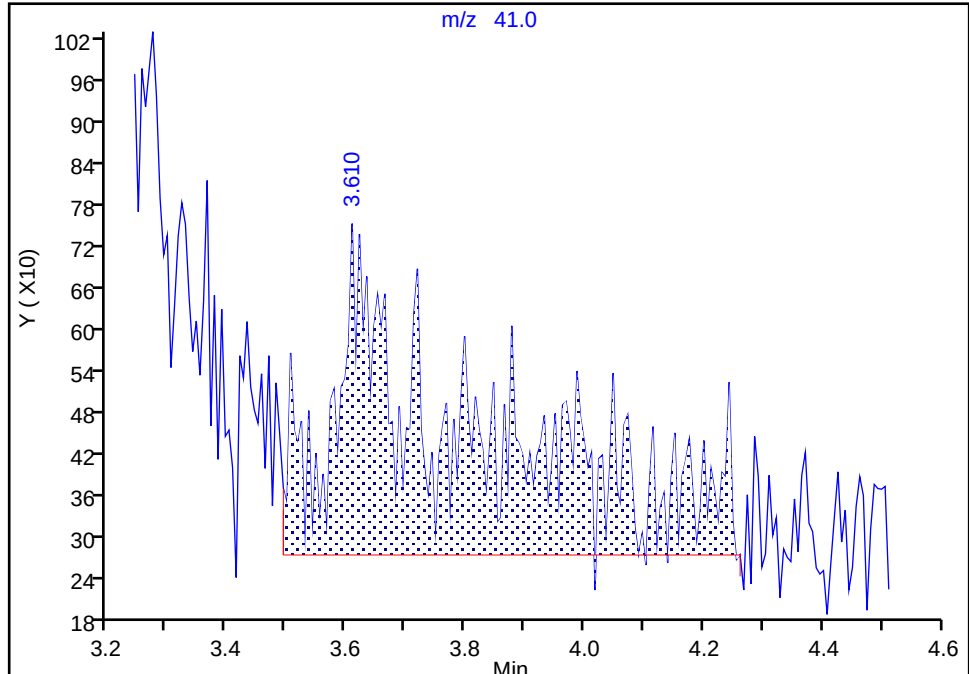
Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\copy_CD11X02.D
Injection Date: 11-Dec-2023 17:46:30 Instrument ID: 10193
Lims ID: IC STD.2 Sm
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

27 Acetonitrile, CAS: 75-05-8

Signal: 1

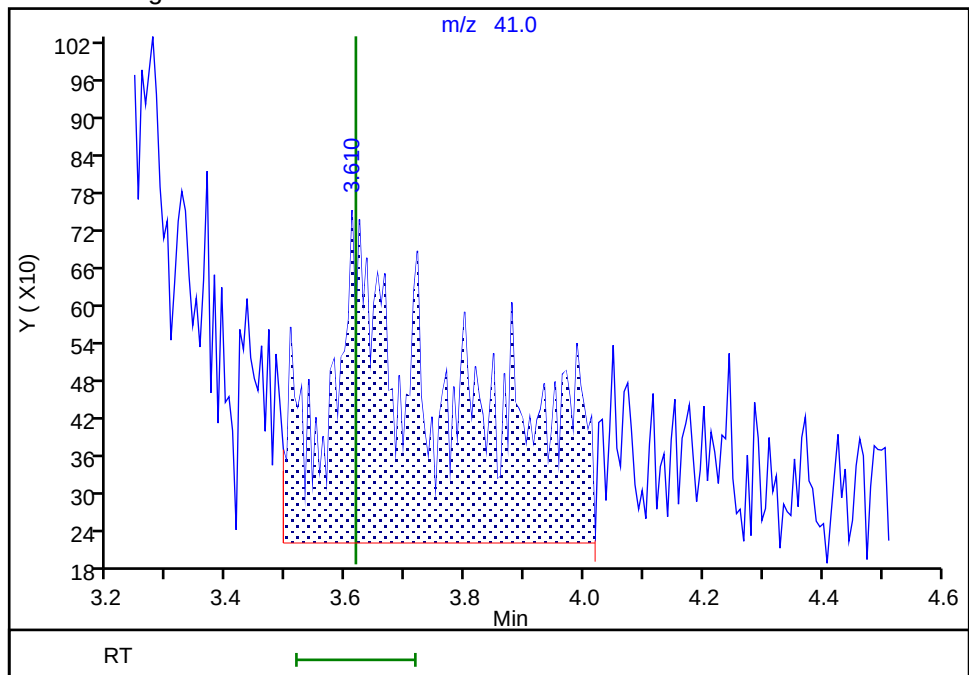
RT: 3.61
Area: 7121
Amount: 1.633351
Amount Units: ug/l

Processing Integration Results



RT: 3.61
Area: 7454
Amount: 2.259674
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 12:21:01 -05:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

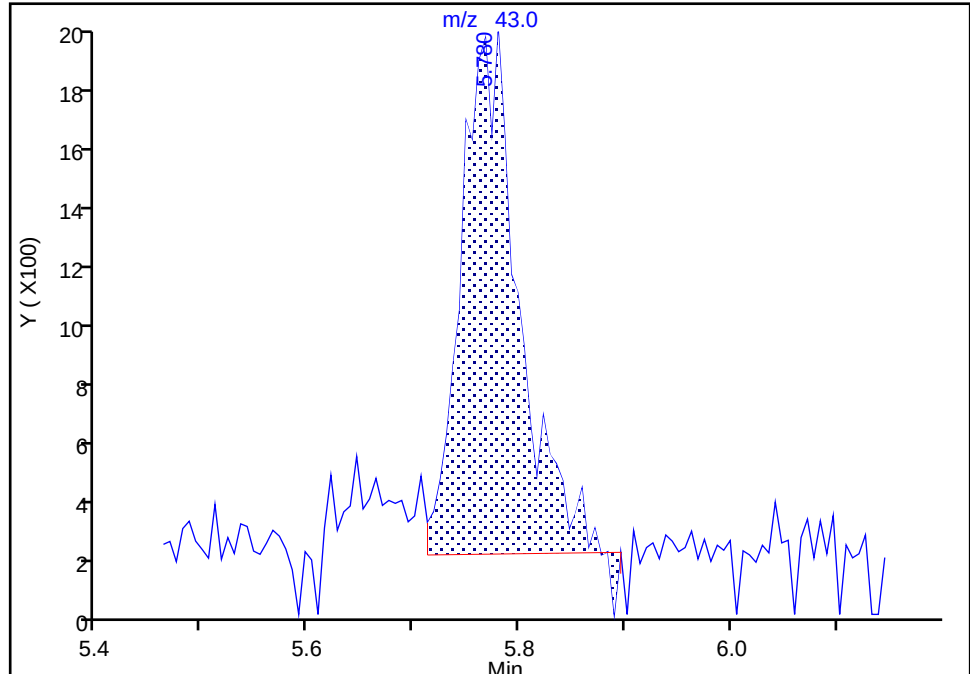
Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\copy_CD11X02.D
Injection Date: 11-Dec-2023 17:46:30 Instrument ID: 10193
Lims ID: IC STD.2 Sm
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

46 Ethyl acetate, CAS: 141-78-6

Signal: 1

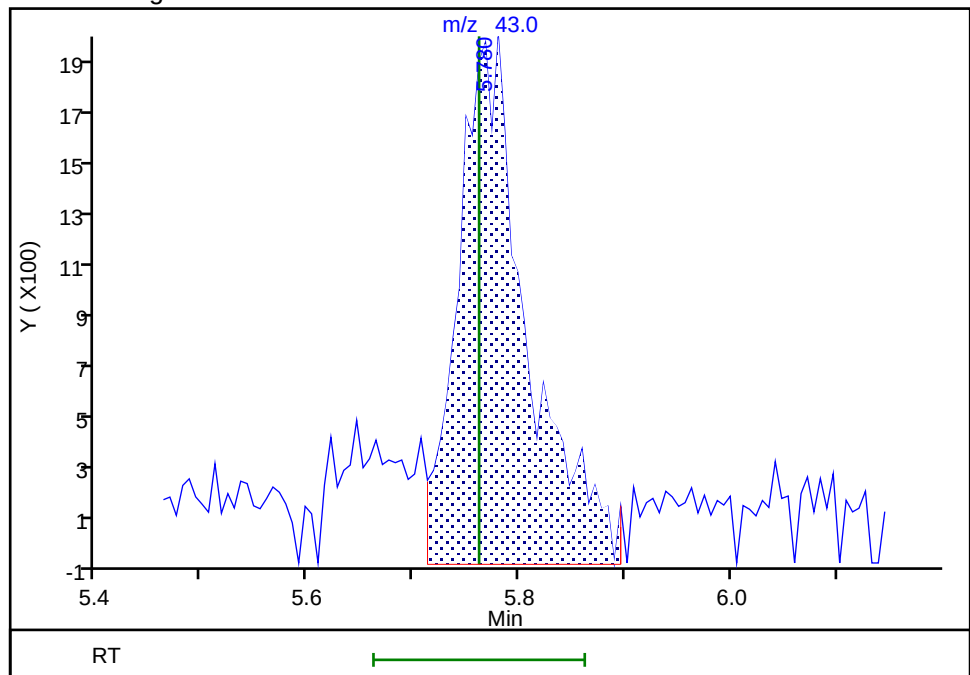
RT: 5.78
Area: 6665
Amount: -0.743982
Amount Units: ug/l

Processing Integration Results



RT: 5.78
Area: 9052
Amount: 0.242931
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 10:42:35 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X03.D
 Lims ID: IC STD.5 Sm
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 11-Dec-2023 18:08:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0101546-004
 Misc. Info.: IC STD.5 SM
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub43
 Method: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 14-Dec-2023 10:49:19 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1621

First Level Reviewer: DVW2

Date: 12-Dec-2023 10:43:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.781	1.787	-0.006	76	10071	0.5000	0.3097	
3 Chlorodifluoromethane	51	1.835	1.836	-0.001	97	24232	0.5000	0.5785	
4 Dimethyl ether	45	1.878	1.884	-0.006	97	38670	0.5000	0.4530	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.183	2.183	0.000	38	20406	0.5000	0.3361	
27 Acetonitrile	41	3.622	3.616	0.006	70	12210	2.50	3.73	
* 31 t-Butyl alcohol-d10 (IS)	65	3.853	3.841	0.012	97	133812	50.0	50.0	
38 Vinyl acetate	43	4.859	4.859	0.000	98	37106	0.5000	0.4353	
46 Ethyl acetate	43	5.755	5.762	-0.007	98	16960	0.5000	0.4582	
63 Isopropyl acetate	43	7.023	7.024	-0.001	98	36368	0.5000	0.4597	
* 65 Fluorobenzene (IS)	96	7.334	7.328	0.006	99	2080638	10.0	10.0	
75 n-Propyl acetate	61	8.359	8.353	0.006	98	7902	0.5000	0.4618	
79 2-Chloroethyl vinyl ether	63	8.901	8.901	0.000	92	7273	0.5000	0.5870	
109 n-Butyl acetate	43	10.364	10.358	0.006	97	35662	0.5000	0.4804	
* 111 Chlorobenzene-d5 (IS)	117	10.950	10.944	0.006	85	1616304	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.894	11.895	-0.001	97	9384	1.00	0.5858	
123 Cyclohexanone	55	11.919	11.919	0.000	91	24751	25.0	25.7	
* 139 1,4-Dichlorobenzene-d4	152	12.888	12.882	0.006	94	918135	10.0	10.0	

QC Flag Legend

Processing Flags

Reagents:

MSV_CCV_V5ACE_00031	Amount Added: 0.50	Units: uL
MSV_CCV_CYC_00007	Amount Added: 4.00	Units: uL
MSV_V_SMRV4_00065	Amount Added: 2.50	Units: uL
MSV_HP29_ISO_00004	Amount Added: 1.00	Units: uL
MSV_DME_00050	Amount Added: 0.50	Units: uL

Report Date: 14-Dec-2023 10:49:19

Chrom Revision: 2.3 30-Nov-2023 17:25:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X03.D

Injection Date: 11-Dec-2023 18:08:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: IC STD.5 Sm

Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

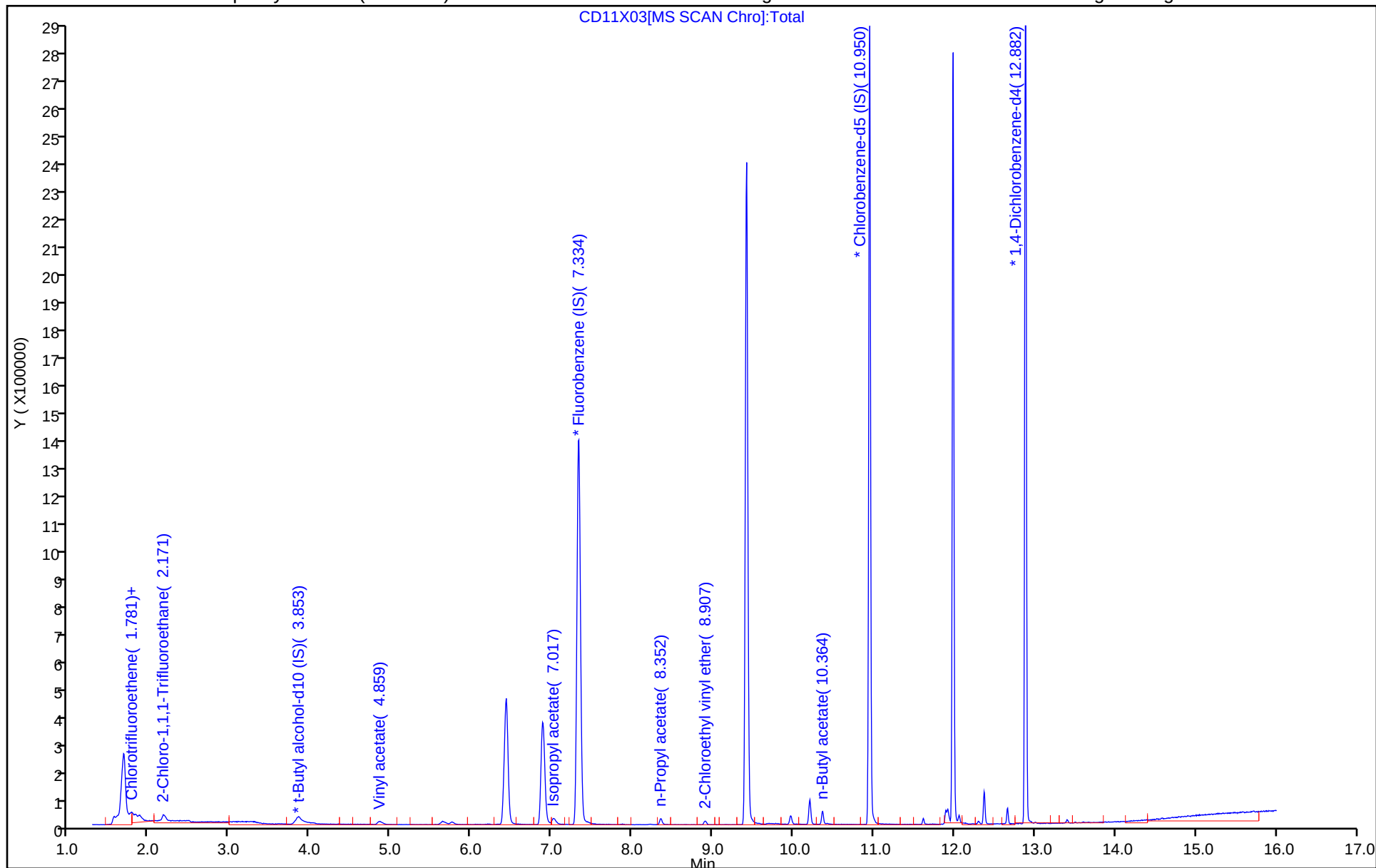
ALS Bottle#: 3

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X04.D
 Lims ID: IC STD1 Sm
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 11-Dec-2023 18:30:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0101546-005
 Misc. Info.: IC STD1 SM
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub43
 Method: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 14-Dec-2023 10:49:23 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1621

First Level Reviewer: DVW2

Date: 12-Dec-2023 10:44:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.781	1.787	-0.006	93	36512	1.00	1.13	
3 Chlorodifluoromethane	51	1.836	1.836	0.000	97	77252	1.00	1.11	
4 Dimethyl ether	45	1.884	1.884	0.000	100	78147	1.00	0.9192	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.177	2.183	-0.006	34	65433	1.00	1.08	
27 Acetonitrile	41	3.616	3.616	0.000	19	17601	5.00	5.39	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.847	3.841	0.006	97	125206	50.0	50.0	
38 Vinyl acetate	43	4.853	4.859	-0.006	97	73590	1.00	0.8669	
46 Ethyl acetate	43	5.756	5.762	-0.006	99	29661	1.00	0.8046	
63 Isopropyl acetate	43	7.017	7.024	-0.007	98	69225	1.00	0.8787	
* 65 Fluorobenzene (IS)	96	7.328	7.328	0.000	99	2072020	10.0	10.0	
75 n-Propyl acetate	61	8.353	8.353	0.000	99	14598	1.00	0.8567	
79 2-Chloroethyl vinyl ether	63	8.901	8.901	0.000	91	23557	1.00	1.07	
109 n-Butyl acetate	43	10.364	10.358	0.006	98	63697	1.00	0.8595	
* 111 Chlorobenzene-d5 (IS)	117	10.950	10.944	0.006	85	1613447	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.895	11.895	0.000	97	30960	2.00	1.94	
123 Cyclohexanone	55	11.919	11.919	0.000	91	42886	50.0	47.7	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.882	0.000	94	923738	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00031	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00007	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00065	Amount Added: 5.00	Units: uL
MSV_HP29_ISO_00004	Amount Added: 1.00	Units: uL
MSV_DME_00050	Amount Added: 1.00	Units: uL

Report Date: 14-Dec-2023 10:49:23

Chrom Revision: 2.3 30-Nov-2023 17:25:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X04.D

Injection Date: 11-Dec-2023 18:30:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: IC STD1 Sm

Worklist Smp#: 5

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

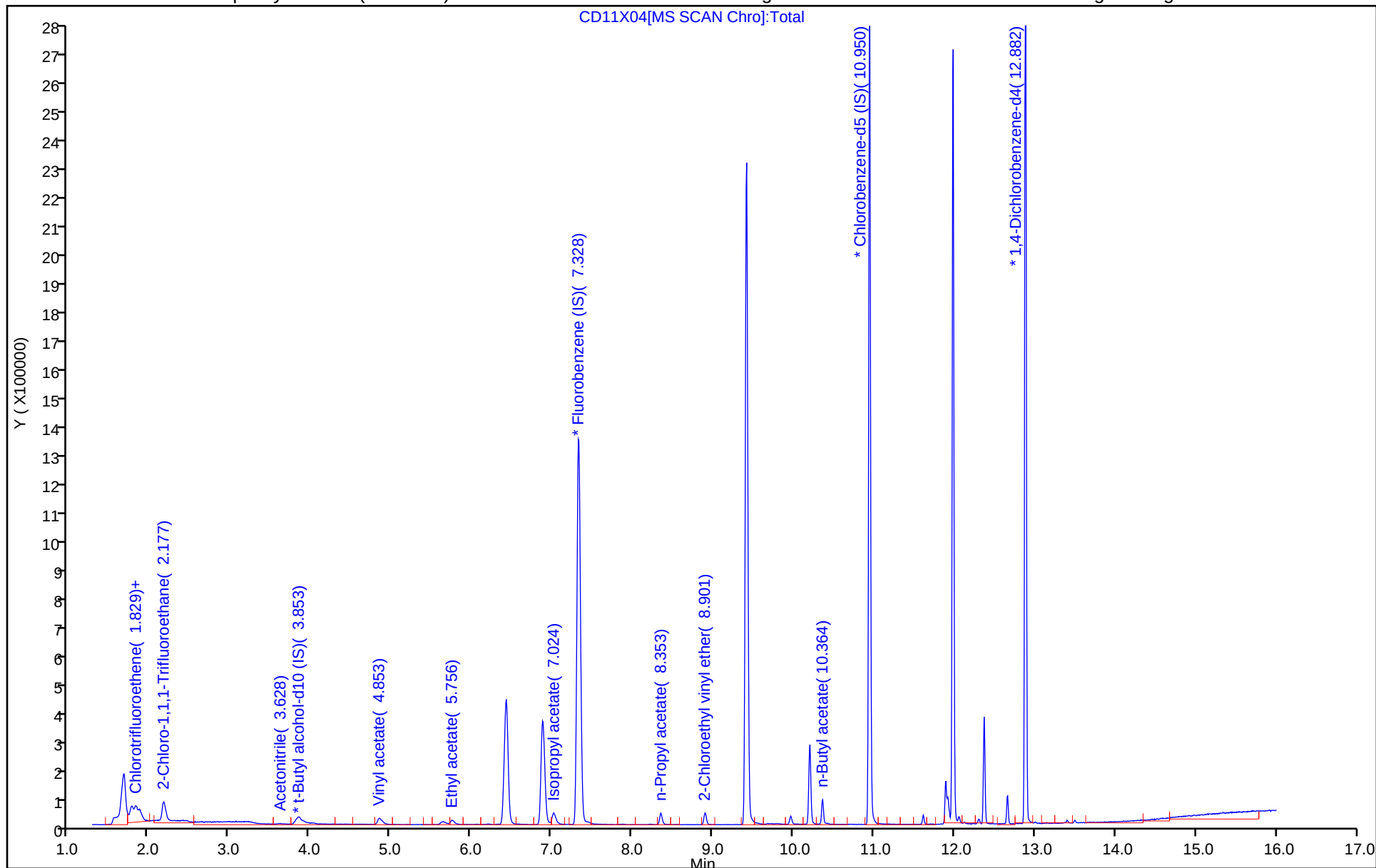
ALS Bottle#: 4

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

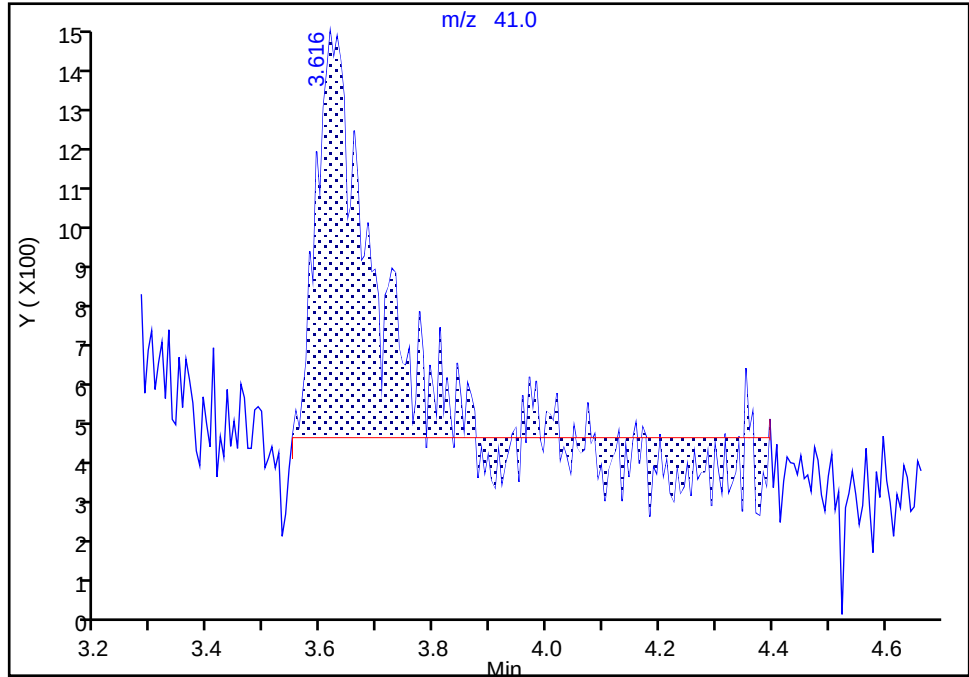
Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X04.D
Injection Date: 11-Dec-2023 18:30:30 Instrument ID: 10193
Lims ID: IC STD1 Sm
Client ID:
Operator ID: gaw91131 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

27 Acetonitrile, CAS: 75-05-8

Signal: 1

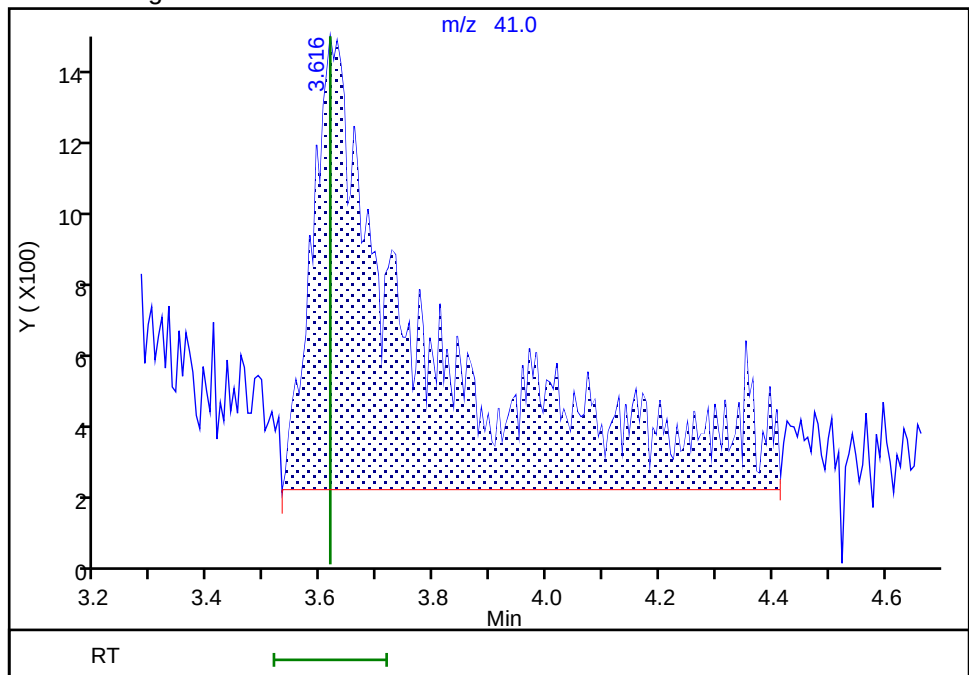
RT: 3.62
Area: 5208
Amount: 1.326132
Amount Units: ug/l

Processing Integration Results



RT: 3.62
Area: 17601
Amount: 5.393182
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 14-Dec-2023 10:33:34 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X05.D
 Lims ID: IC STD2 Sm
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 11-Dec-2023 18:52:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0101546-006
 Misc. Info.: IC STD2 SM
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub43
 Method: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 14-Dec-2023 10:49:25 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1621

First Level Reviewer: DVW2

Date: 12-Dec-2023 10:45:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.787	1.787	0.000	94	67369	2.00	2.08	
3 Chlorodifluoromethane	51	1.835	1.836	-0.001	97	143502	2.00	1.79	
4 Dimethyl ether	45	1.878	1.884	-0.006	99	170700	2.00	2.00	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.177	2.183	-0.006	34	129526	2.00	2.14	
27 Acetonitrile	41	3.609	3.616	-0.007	96	36351	10.0	11.1	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.859	3.841	0.018	97	140109	50.0	50.0	
38 Vinyl acetate	43	4.853	4.859	-0.006	97	168870	2.00	1.98	
46 Ethyl acetate	43	5.762	5.762	0.000	99	70866	2.00	1.92	
63 Isopropyl acetate	43	7.023	7.024	-0.001	98	151702	2.00	1.92	
* 65 Fluorobenzene (IS)	96	7.328	7.328	0.000	99	2077092	10.0	10.0	
75 n-Propyl acetate	61	8.352	8.353	-0.001	99	33488	2.00	1.96	
79 2-Chloroethyl vinyl ether	63	8.901	8.901	0.000	92	49903	2.00	1.86	
109 n-Butyl acetate	43	10.358	10.358	0.000	98	143802	2.00	1.93	
* 111 Chlorobenzene-d5 (IS)	117	10.950	10.944	0.006	85	1623854	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.894	11.895	-0.001	97	64130	4.00	3.98	
123 Cyclohexanone	55	11.919	11.919	0.000	92	102609	100.0	101.9	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.882	0.000	94	930962	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00031	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00007	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00065	Amount Added: 5.00	Units: uL
MSV_HP29_ISO_00004	Amount Added: 1.00	Units: uL
MSV_DME_00050	Amount Added: 1.00	Units: uL

Report Date: 14-Dec-2023 10:49:26

Chrom Revision: 2.3 30-Nov-2023 17:25:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X05.D

Injection Date: 11-Dec-2023 18:52:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: IC STD2 Sm

Worklist Smp#: 6

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

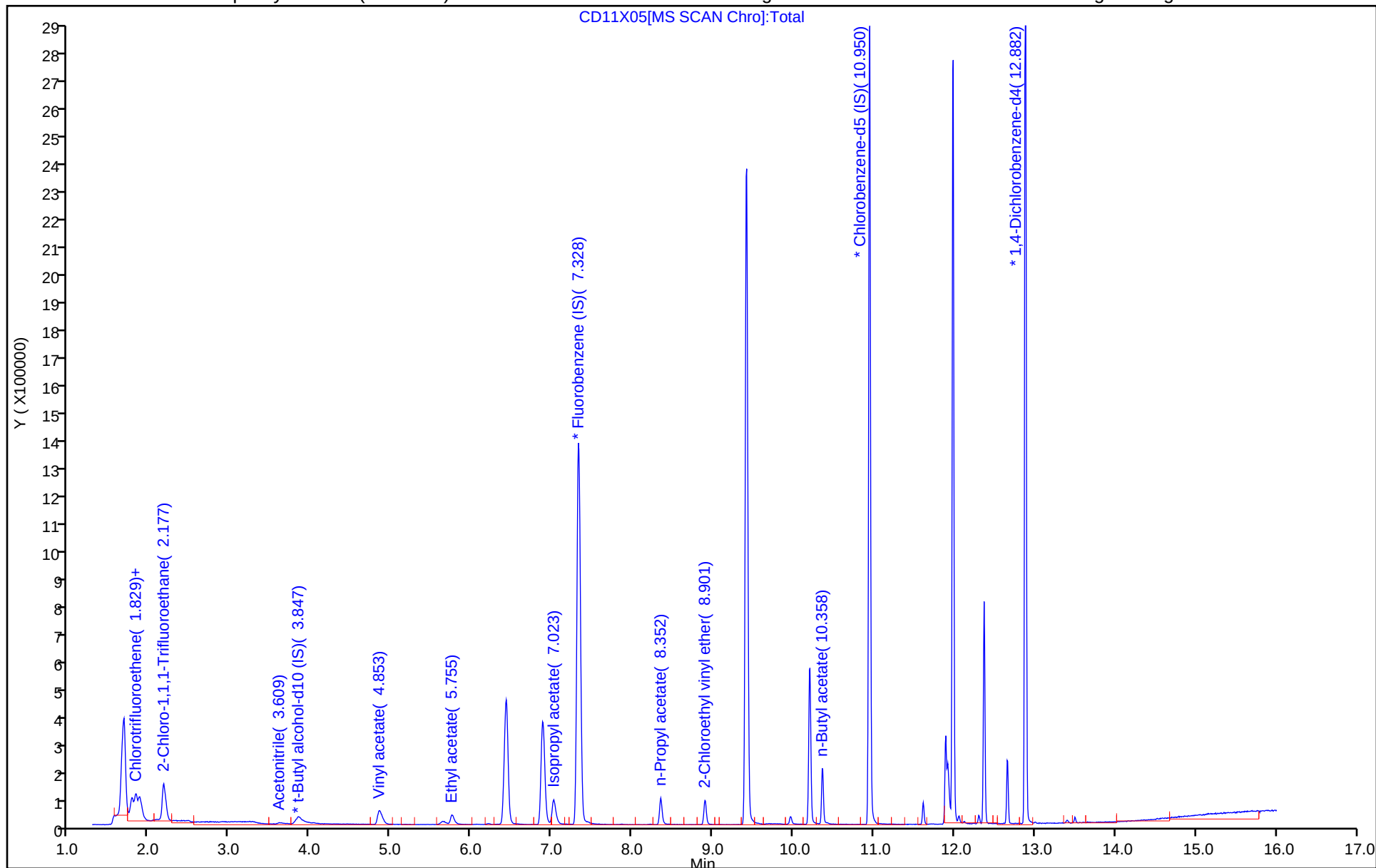
ALS Bottle#: 5

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

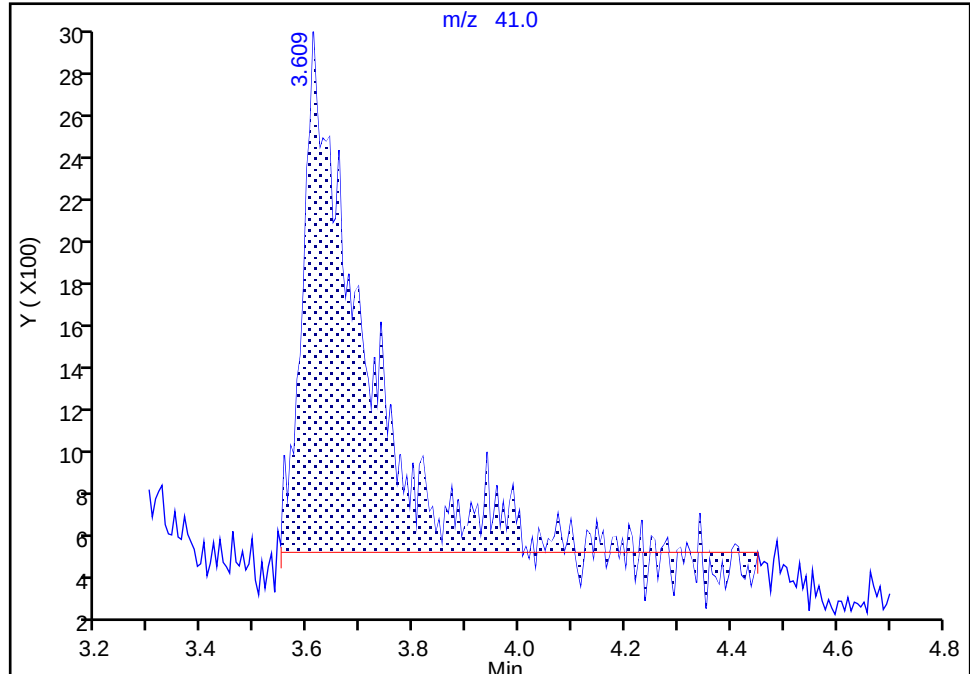
Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X05.D
Injection Date: 11-Dec-2023 18:52:30 Instrument ID: 10193
Lims ID: IC STD2 Sm
Client ID:
Operator ID: gaw91131 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

27 Acetonitrile, CAS: 75-05-8

Signal: 1

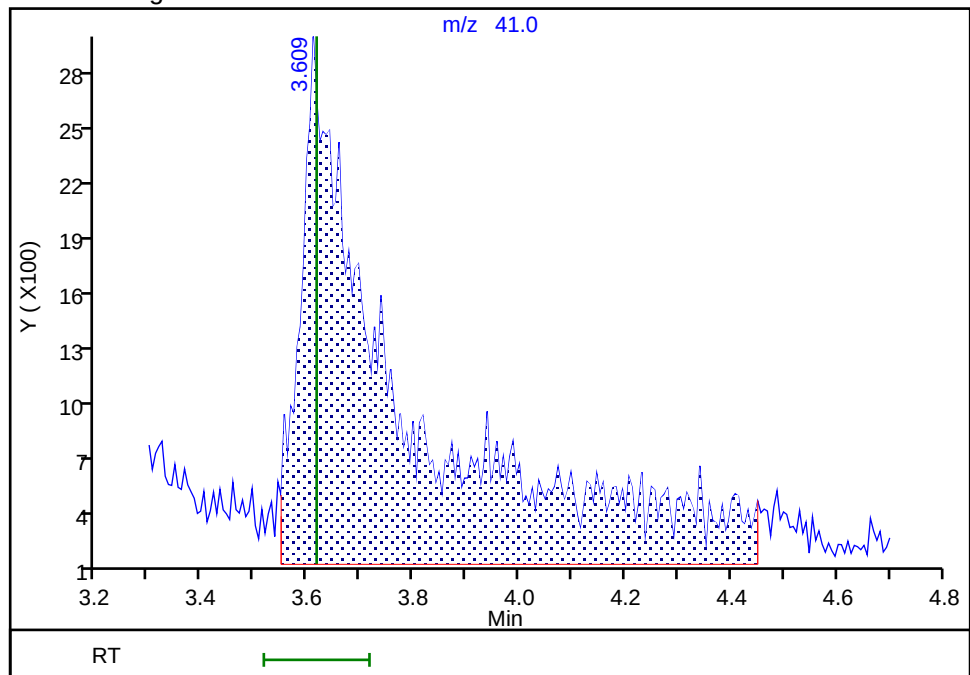
RT: 3.61
Area: 18338
Amount: 4.160734
Amount Units: ug/l

Processing Integration Results



RT: 3.61
Area: 36351
Amount: 11.111235
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 10:45:19 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X06.D
 Lims ID: IC STD5 Sm
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 11-Dec-2023 19:14:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0101546-007
 Misc. Info.: IC STD5 SM
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub43
 Method: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 14-Dec-2023 10:49:30 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1621

First Level Reviewer: DVW2

Date: 12-Dec-2023 10:46:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.793	1.787	0.006	93	211360	5.00	6.61	
3 Chlorodifluoromethane	51	1.842	1.836	0.006	97	418317	5.00	4.94	
4 Dimethyl ether	45	1.884	1.884	0.000	98	473845	5.00	5.65	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.183	2.183	0.000	34	373342	5.00	6.26	
27 Acetonitrile	41	3.616	3.616	0.000	97	81522	25.0	25.3	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.866	3.841	0.025	96	139108	50.0	50.0	
38 Vinyl acetate	43	4.859	4.859	0.000	97	446945	5.00	5.33	
46 Ethyl acetate	43	5.768	5.762	0.006	99	191013	5.00	5.25	
63 Isopropyl acetate	43	7.024	7.024	0.000	98	428302	5.00	5.51	
* 65 Fluorobenzene (IS)	96	7.334	7.328	0.006	99	2045595	10.0	10.0	
75 n-Propyl acetate	61	8.353	8.353	0.000	99	91879	5.00	5.46	
79 2-Chloroethyl vinyl ether	63	8.901	8.901	0.000	92	139226	5.00	4.87	
109 n-Butyl acetate	43	10.364	10.358	0.006	98	385188	5.00	5.24	M
* 111 Chlorobenzene-d5 (IS)	117	10.950	10.944	0.006	85	1600367	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.895	11.895	0.000	98	188049	10.0	11.9	
123 Cyclohexanone	55	11.919	11.919	0.000	93	267583	250.0	267.8	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.882	0.000	94	918605	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00031	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00007	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00065	Amount Added: 5.00	Units: uL
MSV_HP29_ISO_00004	Amount Added: 1.00	Units: uL
MSV_DME_00050	Amount Added: 1.00	Units: uL

Report Date: 14-Dec-2023 10:49:30

Chrom Revision: 2.3 30-Nov-2023 17:25:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X06.D

Injection Date: 11-Dec-2023 19:14:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: IC STD5 Sm

Worklist Smp#: 7

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

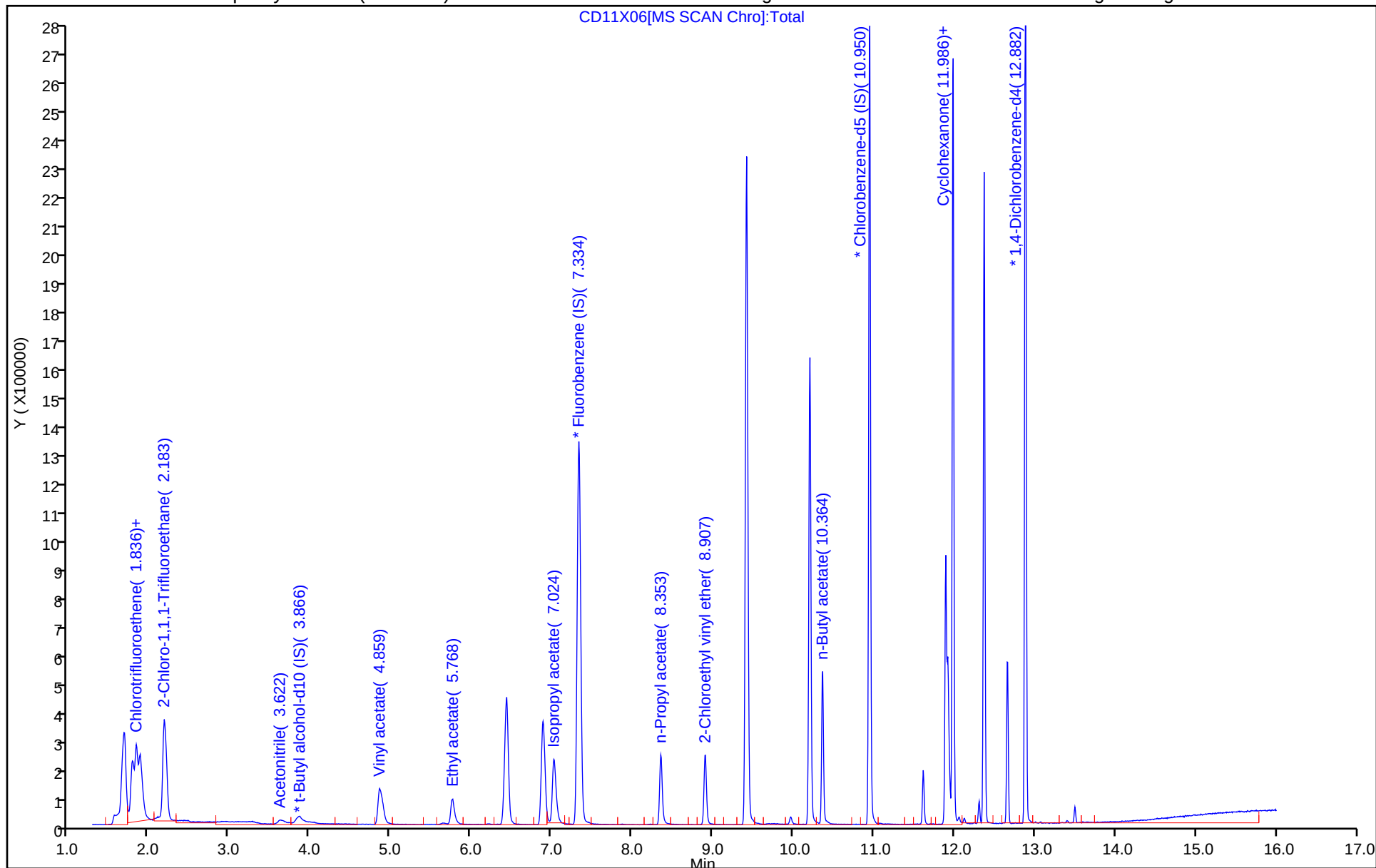
ALS Bottle#: 6

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

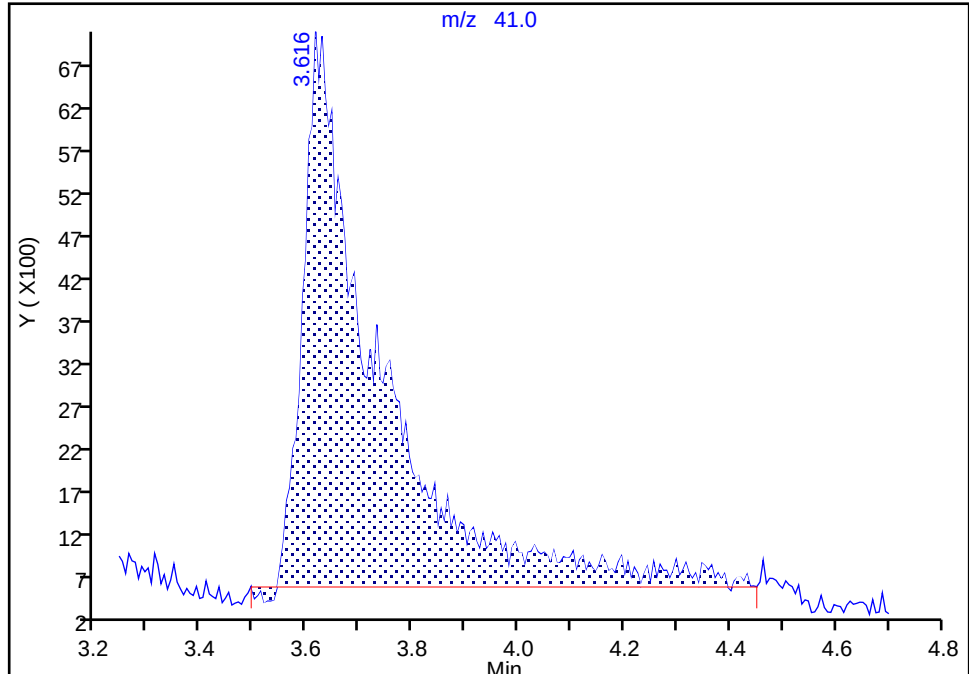
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Injection Date: 11-Dec-2023 19:14:30 Instrument ID: 10193
Lims ID: IC STD5 Sm
Client ID:
Operator ID: gaw91131 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

27 Acetonitrile, CAS: 75-05-8

Signal: 1

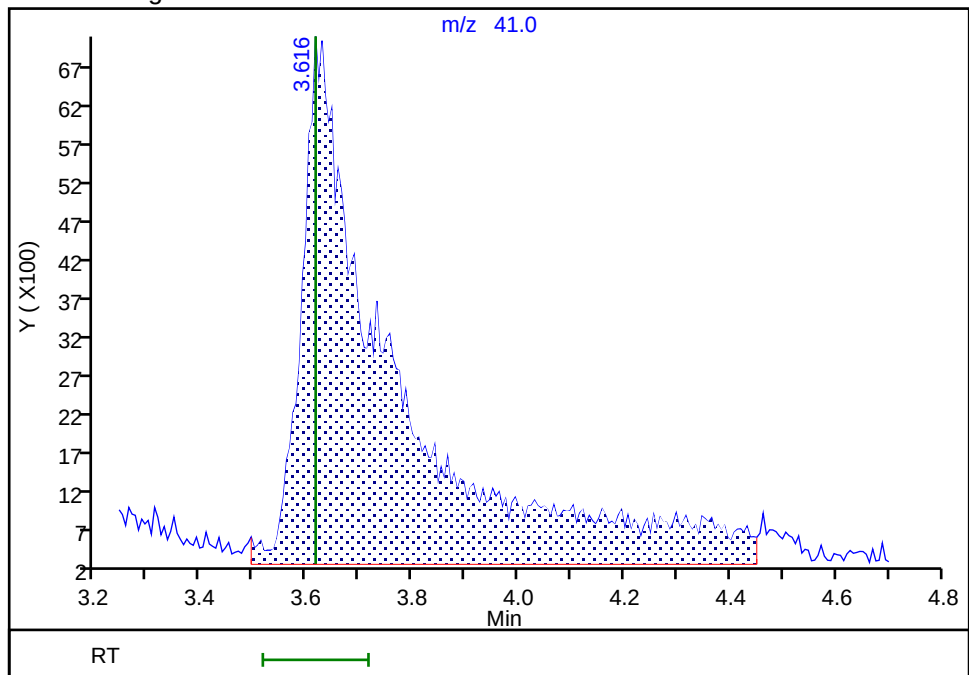
RT: 3.62
Area: 62219
Amount: 14.377278
Amount Units: ug/l

Processing Integration Results



RT: 3.62
Area: 81522
Amount: 25.302118
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 10:46:07 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X07.D
 Lims ID: IC STD10 Sm
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 11-Dec-2023 19:37:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0101546-008
 Misc. Info.: IC STD10 SM
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub43
 Method: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 14-Dec-2023 10:49:34 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1621

First Level Reviewer: DVW2

Date: 12-Dec-2023 09:04:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.787	1.787	0.000	93	393209	10.0	12.2	
3 Chlorodifluoromethane	51	1.836	1.836	0.000	97	783832	10.0	10.1	
4 Dimethyl ether	45	1.884	1.884	0.000	99	845220	10.0	10.0	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.183	2.183	0.000	48	694699	10.0	11.6	
27 Acetonitrile	41	3.616	3.616	0.000	100	152811	50.0	47.2	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.853	3.853	0.000	97	131300	50.0	50.0	
38 Vinyl acetate	43	4.859	4.859	0.000	97	935464	10.0	11.1	
46 Ethyl acetate	43	5.762	5.762	0.000	99	381403	10.0	10.4	
63 Isopropyl acetate	43	7.024	7.024	0.000	98	859039	10.0	11.0	
* 65 Fluorobenzene (IS)	96	7.335	7.335	0.000	99	2055027	10.0	10.0	
75 n-Propyl acetate	61	8.353	8.353	0.000	99	187671	10.0	11.1	
79 2-Chloroethyl vinyl ether	63	8.901	8.901	0.000	92	266720	10.0	10.2	
109 n-Butyl acetate	43	10.358	10.358	0.000	98	798281	10.0	10.8	
* 111 Chlorobenzene-d5 (IS)	117	10.950	10.950	0.000	85	1605255	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.895	11.895	0.000	98	364200	20.0	22.9	
123 Cyclohexanone	55	11.919	11.919	0.000	92	477245	500.0	506.0	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.882	0.000	94	918278	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00031	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00007	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00065	Amount Added: 5.00	Units: uL
MSV_HP29_ISO_00004	Amount Added: 1.00	Units: uL
MSV_DME_00050	Amount Added: 1.00	Units: uL

Report Date: 14-Dec-2023 10:49:34

Chrom Revision: 2.3 30-Nov-2023 17:25:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X07.D

Injection Date: 11-Dec-2023 19:37:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: IC STD10 Sm

Worklist Smp#: 8

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

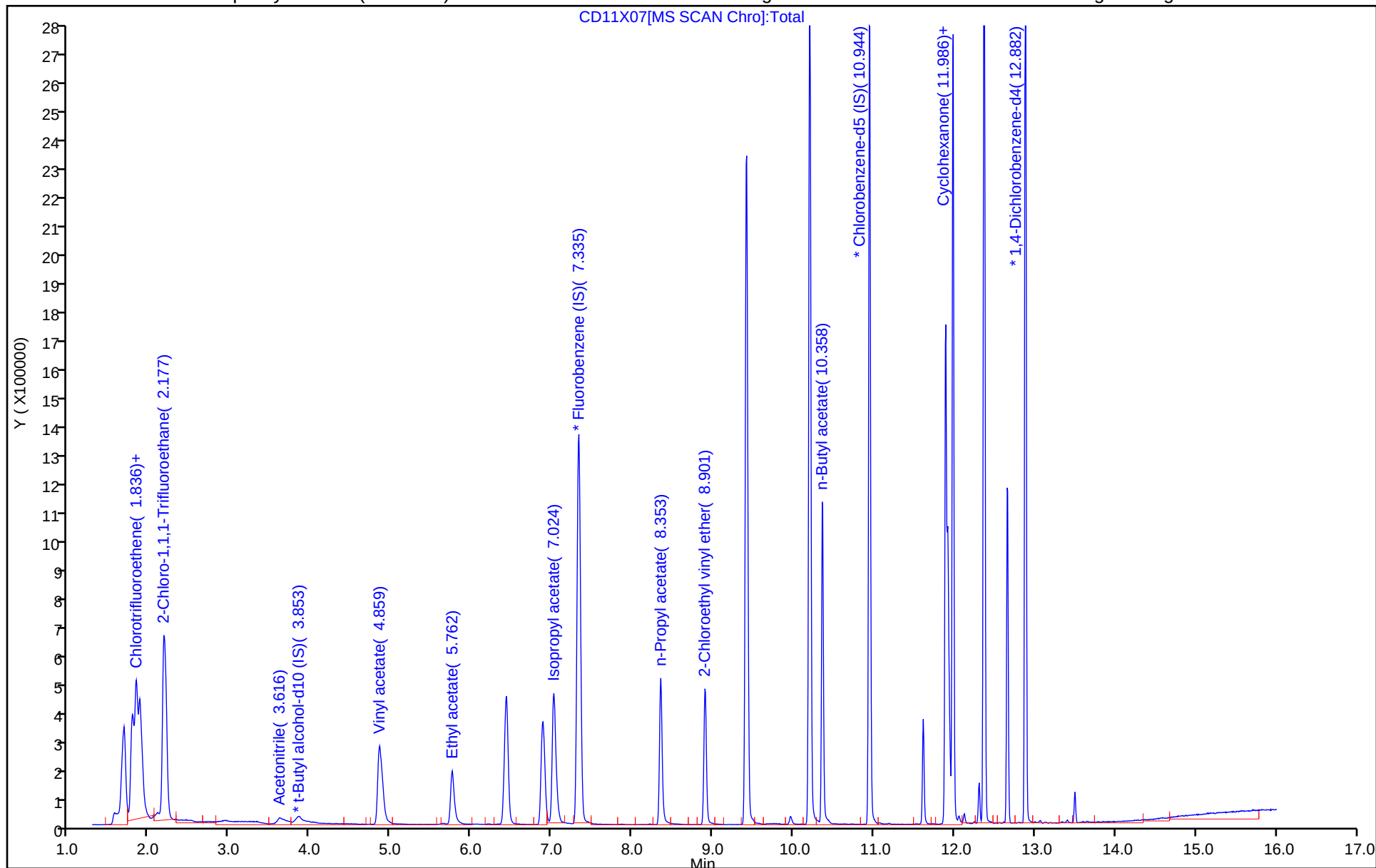
ALS Bottle#: 7

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



4/2/2024
4:19:02 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

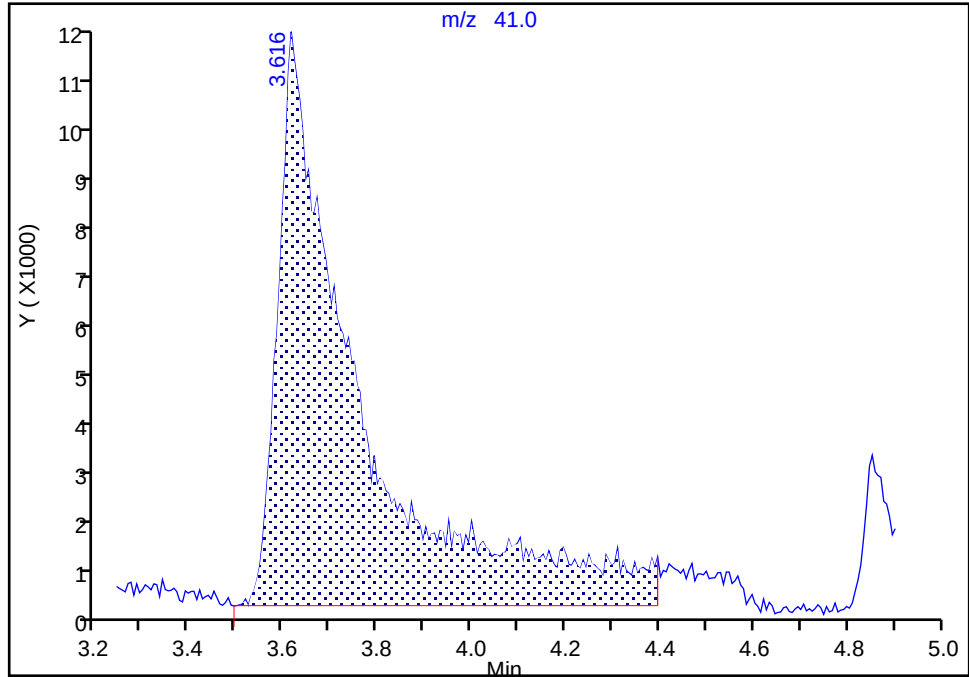
Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X07.D
Injection Date: 11-Dec-2023 19:37:30 Instrument ID: 10193
Lims ID: IC STD10 Sm
Client ID:
Operator ID: gaw91131 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

27 Acetonitrile, CAS: 75-05-8

Signal: 1

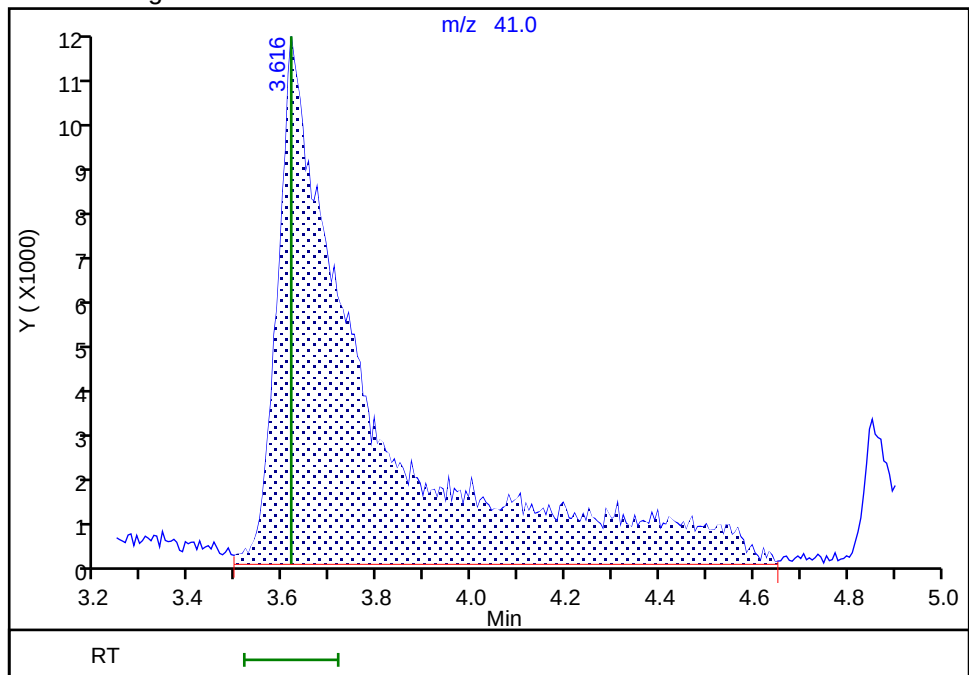
RT: 3.62
Area: 133875
Amount: 29.968944
Amount Units: ug/l

Processing Integration Results



RT: 3.62
Area: 152811
Amount: 47.210520
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 10:47:30 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X08.D
 Lims ID: IC STD25 Sm
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 11-Dec-2023 19:59:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0101546-009
 Misc. Info.: IC STD25 SM
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub43
 Method: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 14-Dec-2023 10:49:36 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1621

First Level Reviewer: DVW2

Date: 12-Dec-2023 10:48:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.787	1.787	0.000	94	615157	25.0	19.1	
3 Chlorodifluoromethane	51	1.842	1.836	0.006	97	1188050	25.0	22.5	
4 Dimethyl ether	45	1.884	1.884	0.000	99	2129157	25.0	25.2	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.183	2.183	0.000	34	1064663	25.0	17.7	
27 Acetonitrile	41	3.622	3.616	0.006	98	346570	125.0	106.7	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.859	3.853	0.006	97	129556	50.0	50.0	
38 Vinyl acetate	43	4.859	4.859	0.000	97	2324162	25.0	27.5	
46 Ethyl acetate	43	5.762	5.762	0.000	99	928597	25.0	25.3	
63 Isopropyl acetate	43	7.023	7.024	-0.001	98	2044568	25.0	26.1	
* 65 Fluorobenzene (IS)	96	7.334	7.335	-0.001	99	2061355	10.0	10.0	
75 n-Propyl acetate	61	8.352	8.353	-0.001	99	453900	25.0	26.8	
79 2-Chloroethyl vinyl ether	63	8.901	8.901	0.000	92	408242	25.0	23.0	
109 n-Butyl acetate	43	10.364	10.358	0.006	98	1932637	25.0	26.0	
* 111 Chlorobenzene-d5 (IS)	117	10.950	10.950	0.000	85	1615781	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.894	11.895	-0.001	98	564638	50.0	35.3	
123 Cyclohexanone	55	11.919	11.919	0.000	93	1149678	1250.0	1235.3	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.882	0.000	94	927383	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00031	Amount Added: 2.50	Units: uL
MSV_CCV_CYC_00007	Amount Added: 20.00	Units: uL
MSV_V_SMRV4_00065	Amount Added: 12.50	Units: uL
MSV_HP29_ISO_00004	Amount Added: 1.00	Units: uL
MSV_DME_00050	Amount Added: 2.50	Units: uL

Report Date: 14-Dec-2023 10:49:37

Chrom Revision: 2.3 30-Nov-2023 17:25:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X08.D

Injection Date: 11-Dec-2023 19:59:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: IC STD25 Sm

Worklist Smp#: 9

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

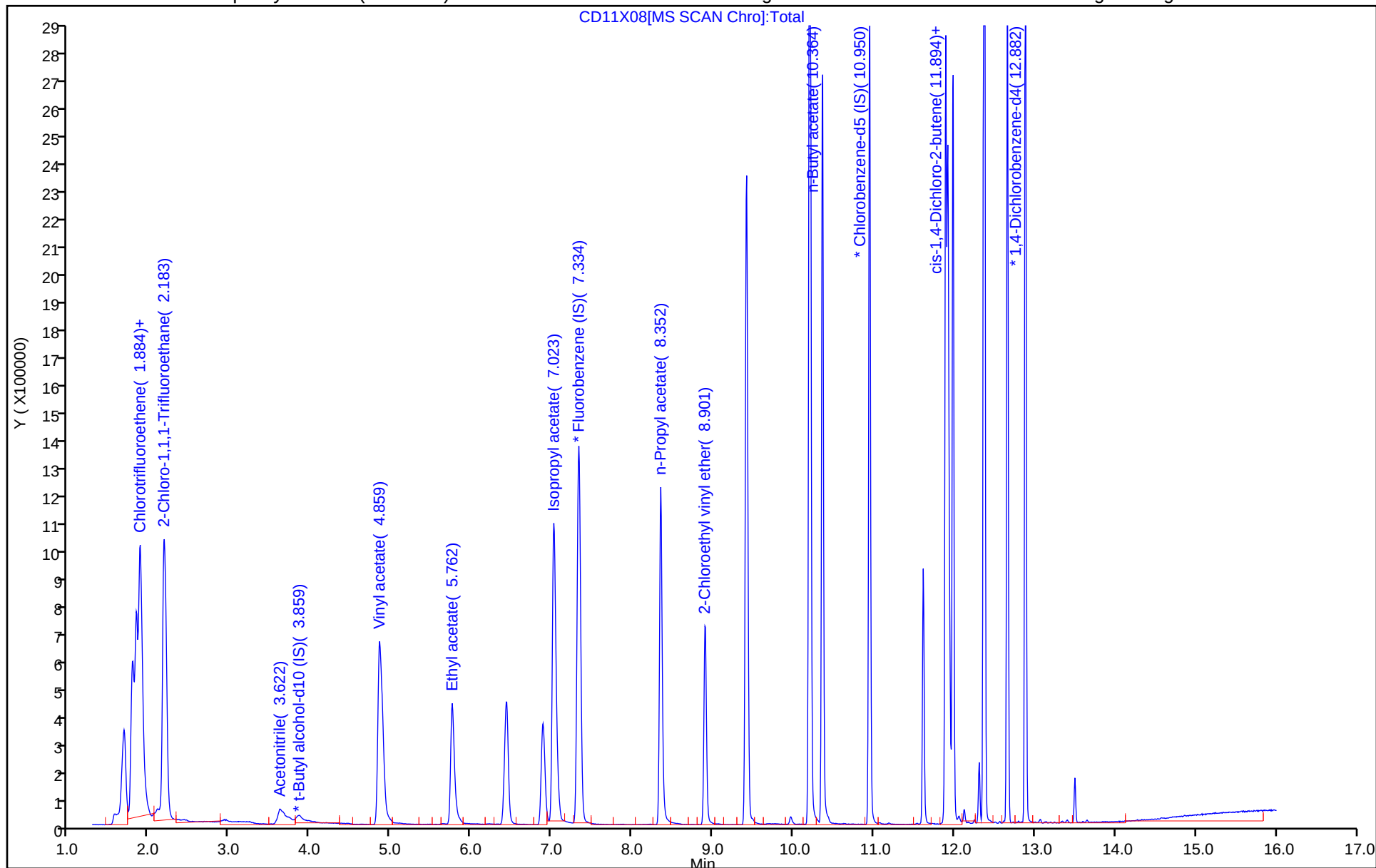
ALS Bottle#: 8

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

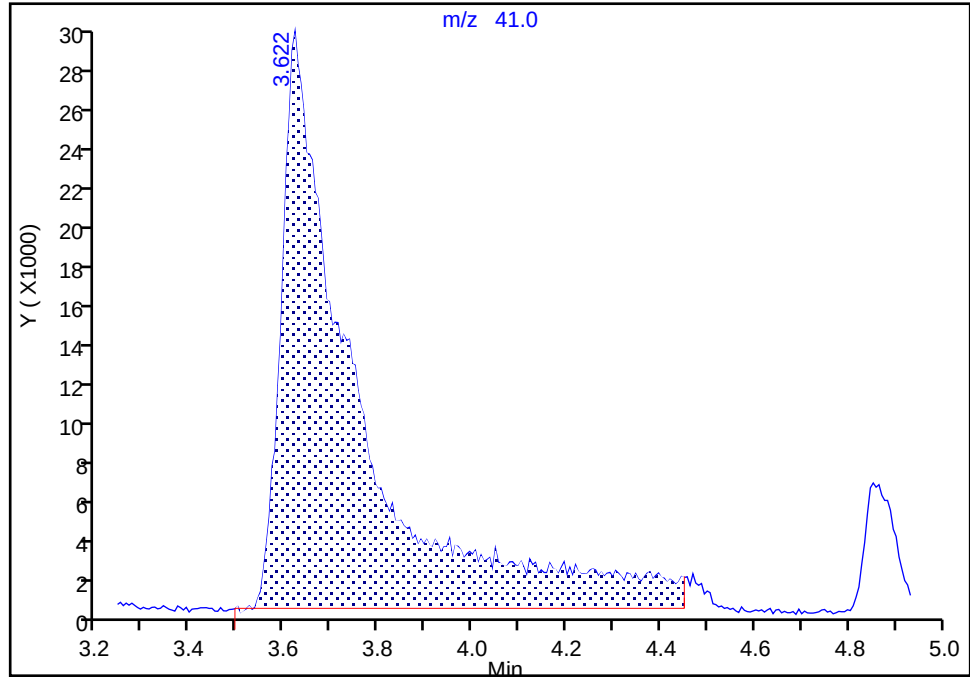
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Injection Date: 11-Dec-2023 19:59:30 Instrument ID: 10193
Lims ID: IC STD25 Sm
Client ID:
Operator ID: gaw91131 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

27 Acetonitrile, CAS: 75-05-8

Signal: 1

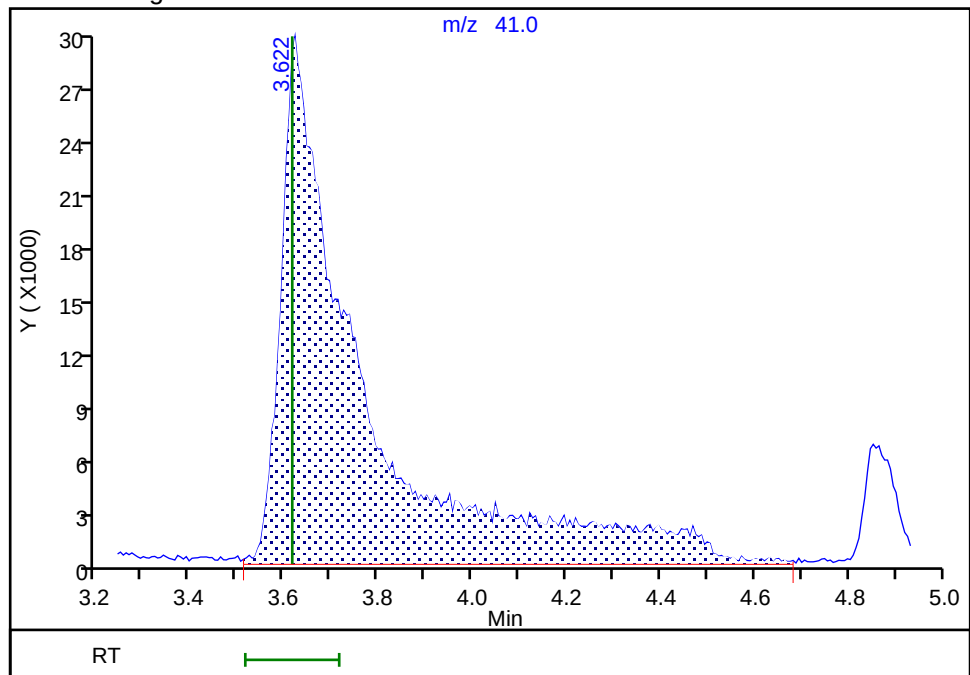
RT: 3.62
Area: 322294
Amount: 75.596249
Amount Units: ug/l

Processing Integration Results



RT: 3.62
Area: 346570
Amount: 106.7431
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 10:48:26 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Calibration

/ Chlorodifluoromethane

Curve Type: Quadratic
 Weighting: None
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

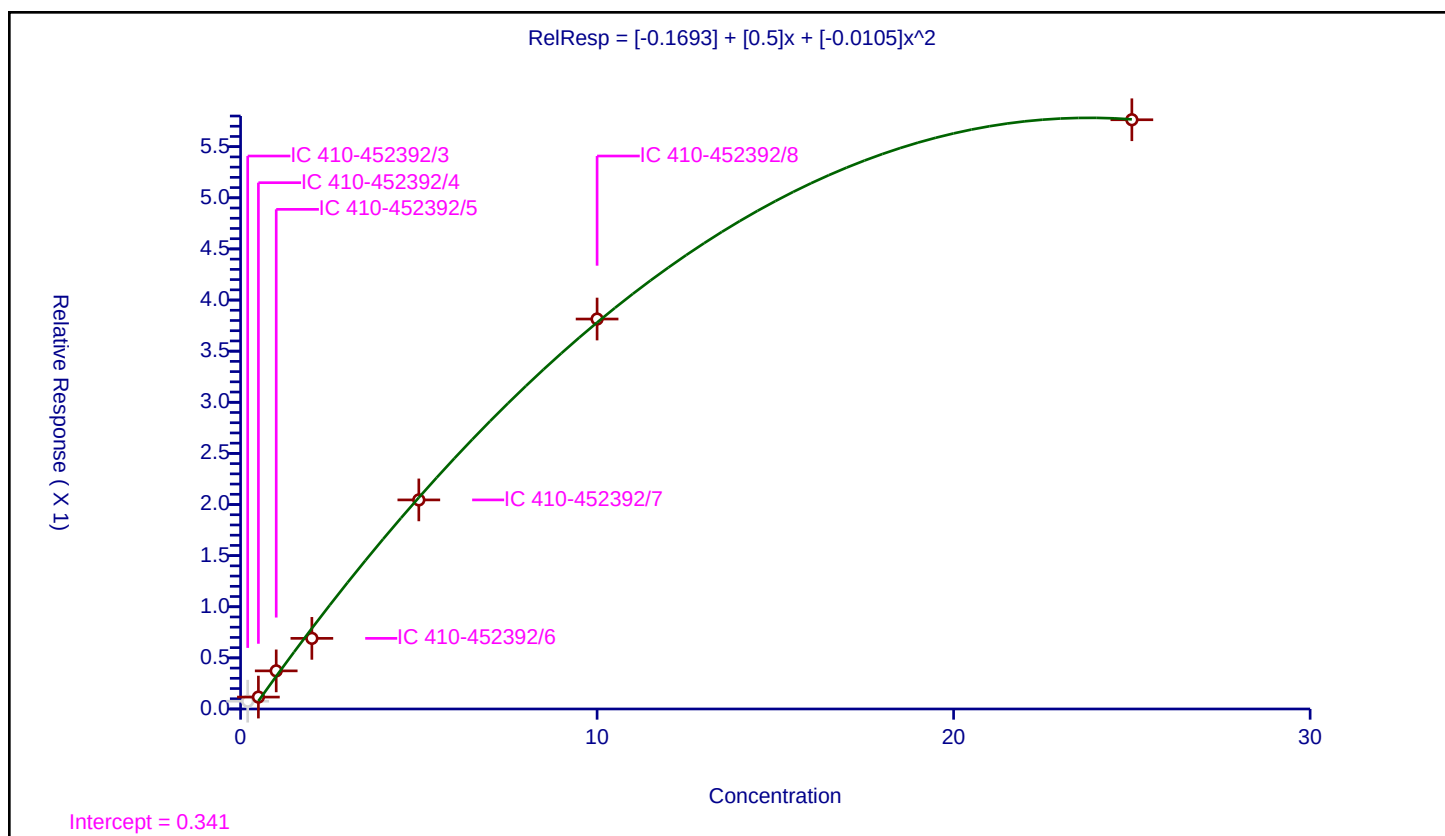
Curve Coefficients

Intercept: -0.1693
 Slope: 0.5
 Second Order: -0.0105

Error Coefficients

Standard Error: 862000
 Relative Standard Error: 14.0
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/3	0.2	0.076153	10.0	2094331.0	0.380766	N
2	IC 410-452392/4	0.5	0.116464	10.0	2080638.0	0.232929	Y
3	IC 410-452392/5	1.0	0.372834	10.0	2072020.0	0.372834	Y
4	IC 410-452392/6	2.0	0.690879	10.0	2077092.0	0.34544	Y
5	IC 410-452392/7	5.0	2.044965	10.0	2045595.0	0.408993	Y
6	IC 410-452392/8	10.0	3.814218	10.0	2055027.0	0.381422	Y
7	IC 410-452392/9	25.0	5.763442	10.0	2061355.0	0.230538	Y



Calibration

/ Dimethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

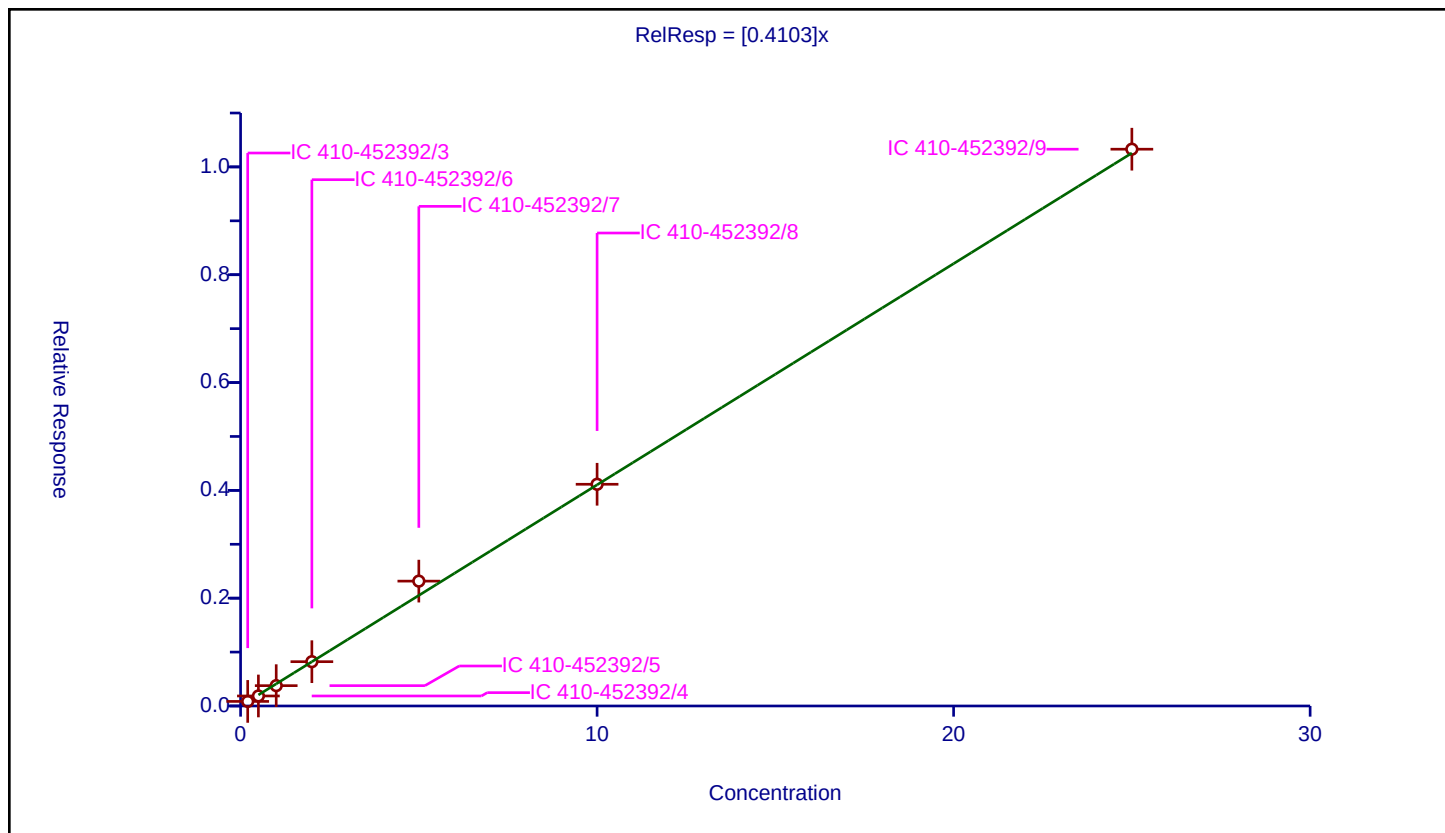
Curve Coefficients

Intercept: 0
Slope: 0.4103

Error Coefficients

Standard Error: 958000
Relative Standard Error: 7.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/3	0.2	0.084896	10.0	2094331.0	0.424479	Y
2	IC 410-452392/4	0.5	0.185856	10.0	2080638.0	0.371713	Y
3	IC 410-452392/5	1.0	0.377154	10.0	2072020.0	0.377154	Y
4	IC 410-452392/6	2.0	0.821822	10.0	2077092.0	0.410911	Y
5	IC 410-452392/7	5.0	2.316416	10.0	2045595.0	0.463283	Y
6	IC 410-452392/8	10.0	4.112939	10.0	2055027.0	0.411294	Y
7	IC 410-452392/9	25.0	10.32892	10.0	2061355.0	0.413157	Y



Calibration

/ Acetonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

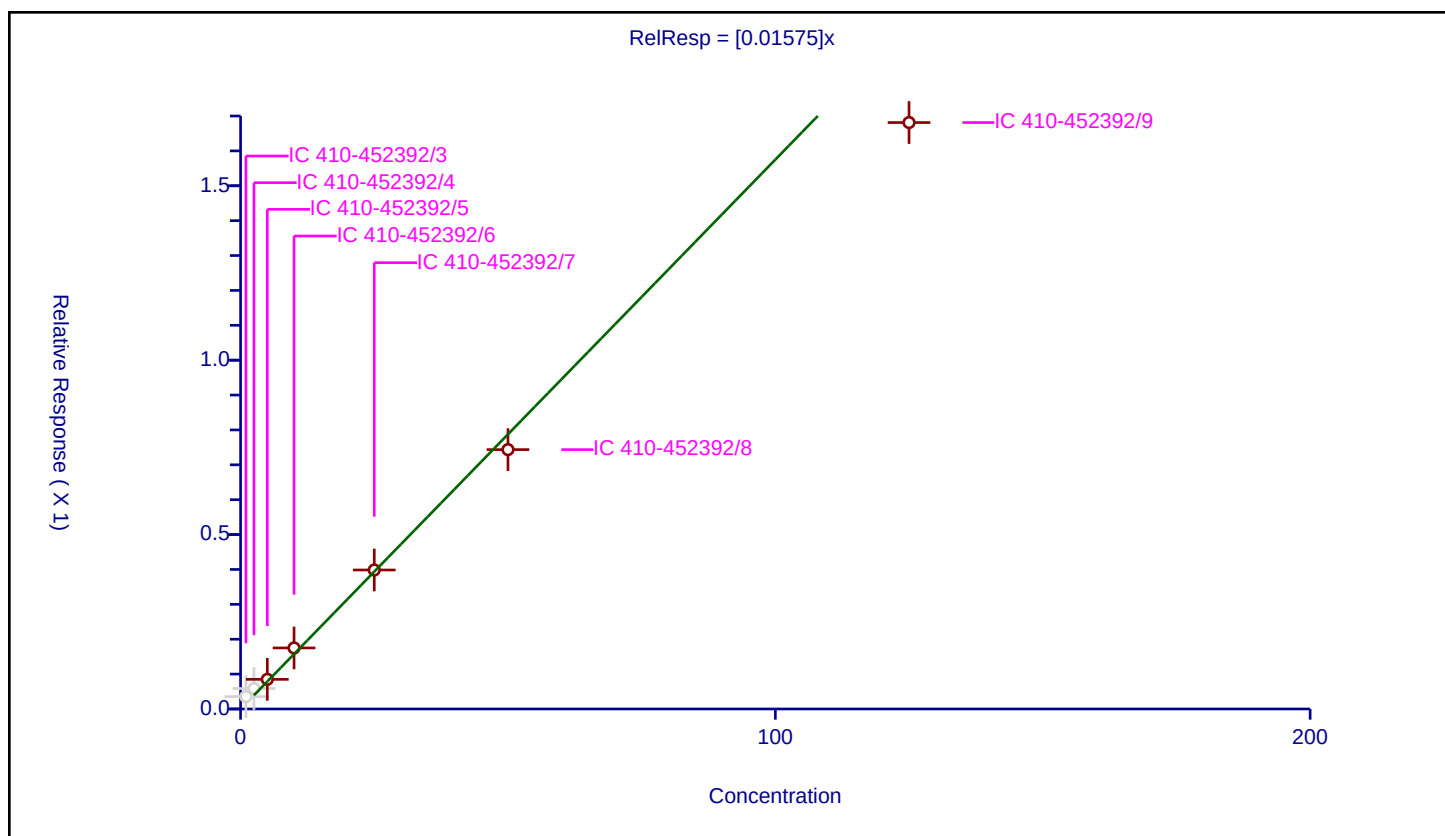
Curve Coefficients

Intercept: 0
Slope: 0.01575

Error Coefficients

Standard Error: 195000
Relative Standard Error: 10.4
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/3	1.0	0.035591	10.0	2094331.0	0.035591	N
2	IC 410-452392/4	2.5	0.058684	10.0	2080638.0	0.023474	N
3	IC 410-452392/5	5.0	0.084946	10.0	2072020.0	0.016989	Y
4	IC 410-452392/6	10.0	0.175009	10.0	2077092.0	0.017501	Y
5	IC 410-452392/7	25.0	0.398525	10.0	2045595.0	0.015941	Y
6	IC 410-452392/8	50.0	0.743596	10.0	2055027.0	0.014872	Y
7	IC 410-452392/9	125.0	1.681273	10.0	2061355.0	0.01345	Y



Calibration

/ Vinyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

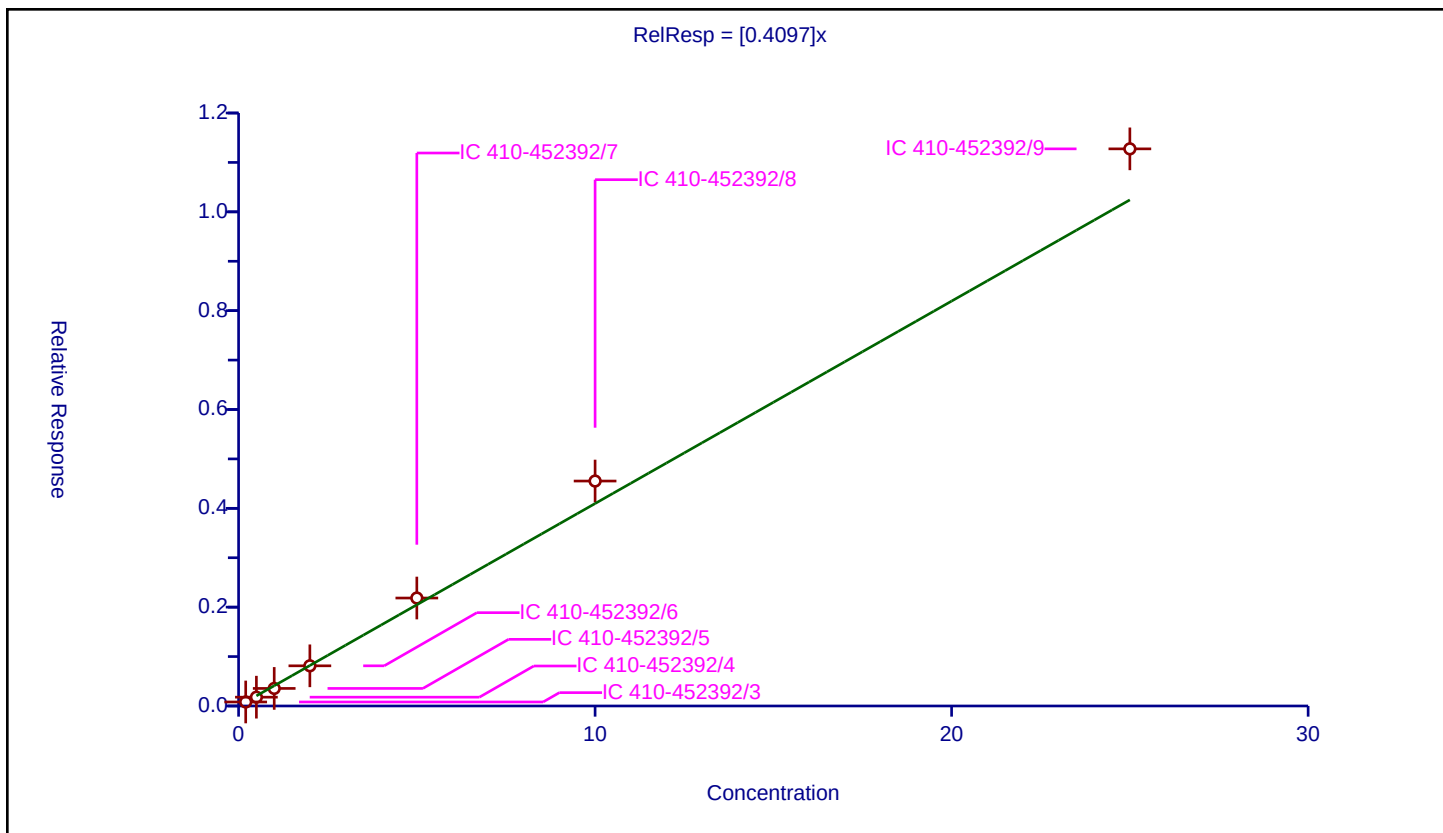
Curve Coefficients

Intercept: 0
 Slope: 0.4097

Error Coefficients

Standard Error: 1040000
 Relative Standard Error: 10.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/3	0.2	0.081248	10.0	2094331.0	0.40624	Y
2	IC 410-452392/4	0.5	0.17834	10.0	2080638.0	0.356679	Y
3	IC 410-452392/5	1.0	0.355161	10.0	2072020.0	0.355161	Y
4	IC 410-452392/6	2.0	0.813012	10.0	2077092.0	0.406506	Y
5	IC 410-452392/7	5.0	2.184914	10.0	2045595.0	0.436983	Y
6	IC 410-452392/8	10.0	4.552076	10.0	2055027.0	0.455208	Y
7	IC 410-452392/9	25.0	11.274924	10.0	2061355.0	0.450997	Y



Calibration

/ Ethyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

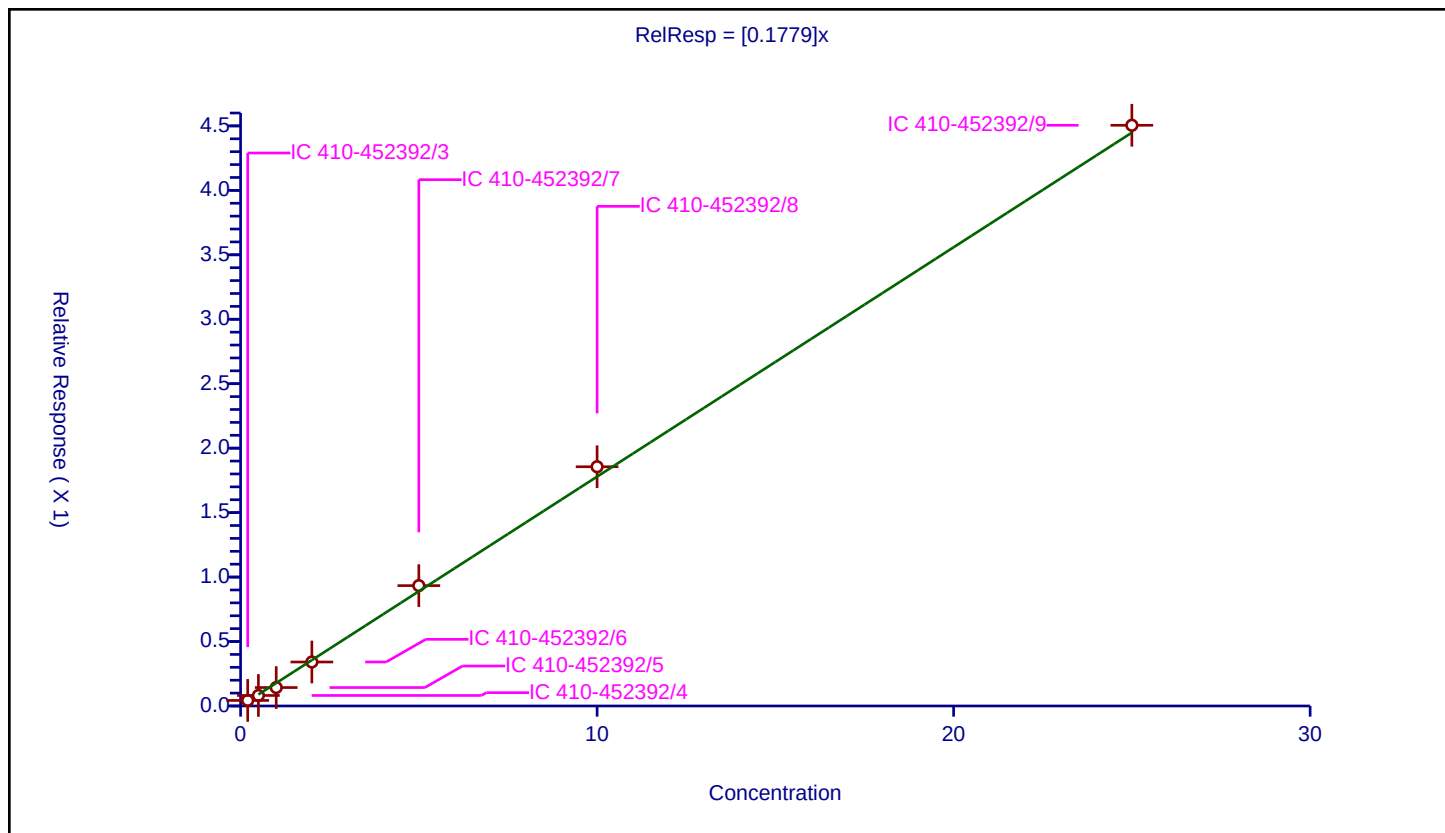
Curve Coefficients

Intercept: 0
Slope: 0.1779

Error Coefficients

Standard Error: 418000
Relative Standard Error: 12.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/3	0.2	0.043221	10.0	2094331.0	0.216107	Y
2	IC 410-452392/4	0.5	0.081513	10.0	2080638.0	0.163027	Y
3	IC 410-452392/5	1.0	0.14315	10.0	2072020.0	0.14315	Y
4	IC 410-452392/6	2.0	0.341179	10.0	2077092.0	0.170589	Y
5	IC 410-452392/7	5.0	0.933777	10.0	2045595.0	0.186755	Y
6	IC 410-452392/8	10.0	1.855951	10.0	2055027.0	0.185595	Y
7	IC 410-452392/9	25.0	4.504789	10.0	2061355.0	0.180192	Y



Calibration

/ 2-Chloroethyl vinyl ether

Curve Type: Quadratic
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

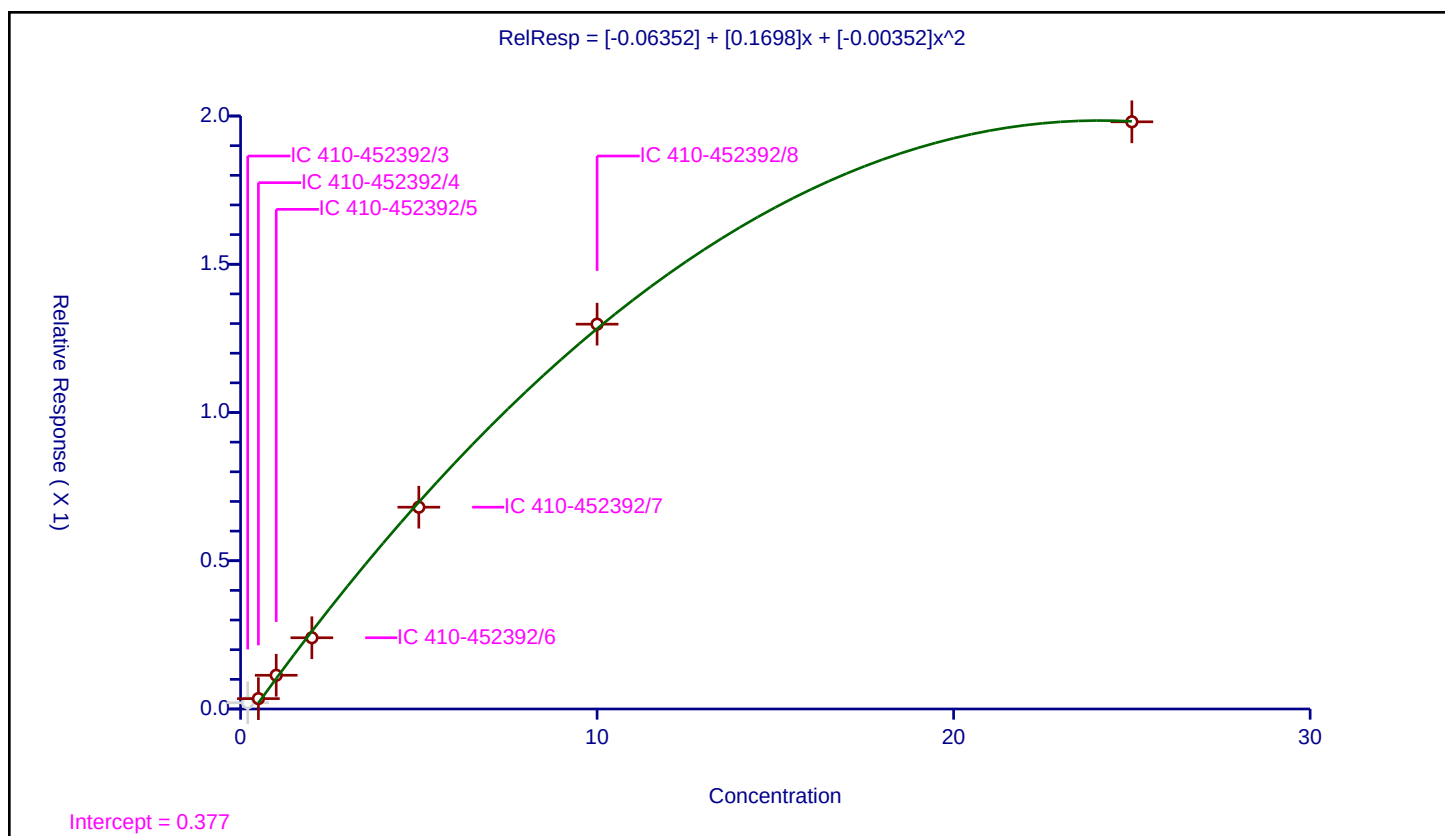
Curve Coefficients

Intercept: -0.06352
Slope: 0.1698
Second Order: -0.00352

Error Coefficients

Standard Error: 295000
Relative Standard Error: 12.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/3	0.2	0.021076	10.0	2094331.0	0.10538	N
2	IC 410-452392/4	0.5	0.034956	10.0	2080638.0	0.069911	Y
3	IC 410-452392/5	1.0	0.113691	10.0	2072020.0	0.113691	Y
4	IC 410-452392/6	2.0	0.240254	10.0	2077092.0	0.120127	Y
5	IC 410-452392/7	5.0	0.680614	10.0	2045595.0	0.136123	Y
6	IC 410-452392/8	10.0	1.29789	10.0	2055027.0	0.129789	Y
7	IC 410-452392/9	25.0	1.980455	10.0	2061355.0	0.079218	Y



Calibration

/ cis-1,4-Dichloro-2-butene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

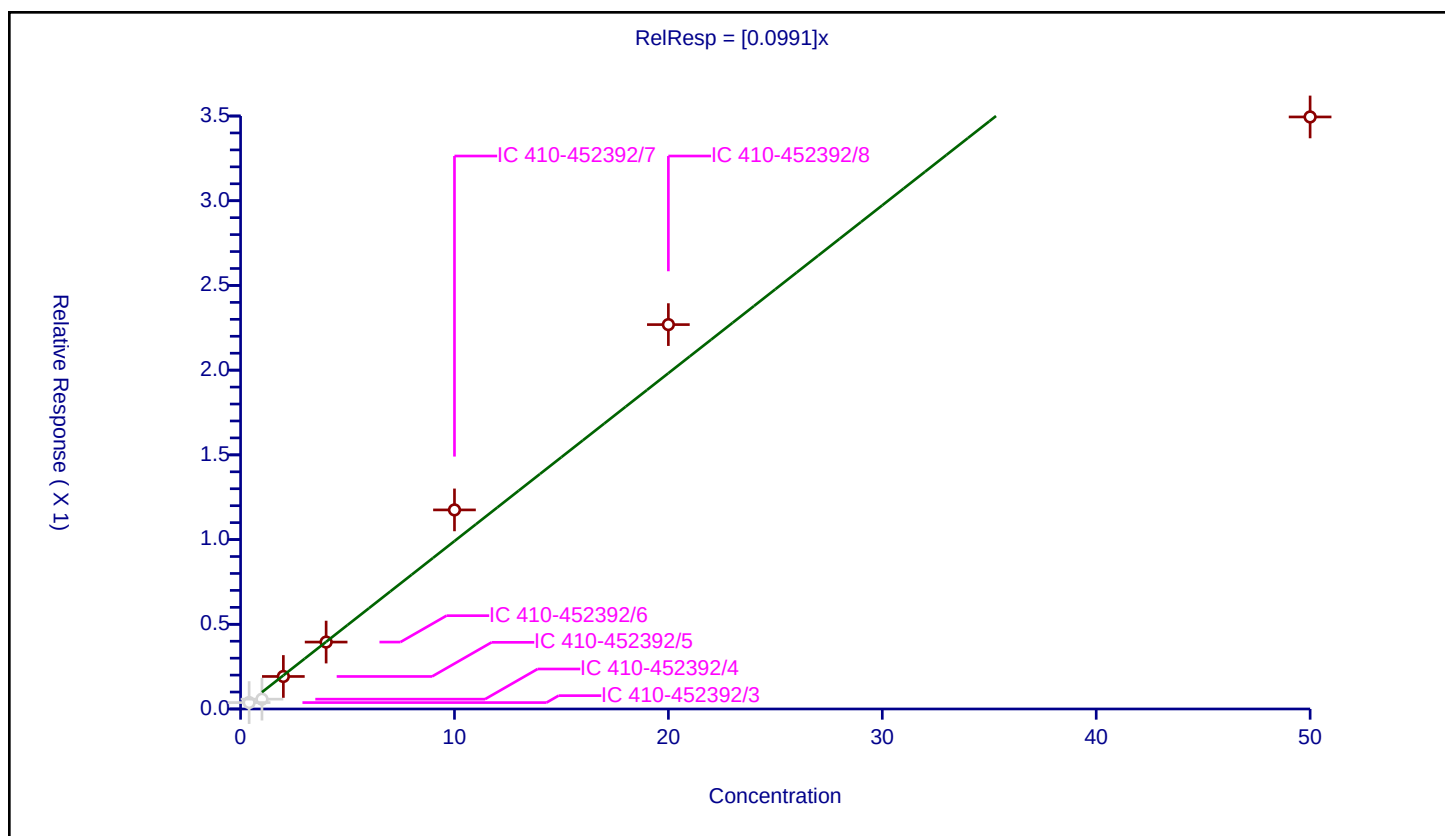
Curve Coefficients

Intercept: 0
 Slope: 0.0991

Error Coefficients

Standard Error: 351000
 Relative Standard Error: 18.9
 Correlation Coefficient: 0.932
 Coefficient of Determination (Adjusted): 0.943

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/3	0.39999	0.037866	10.0	1627599.0	0.094666	N
2	IC 410-452392/4	0.999976	0.058058	10.0	1616304.0	0.05806	N
3	IC 410-452392/5	1.999951	0.191887	10.0	1613447.0	0.095946	Y
4	IC 410-452392/6	3.999903	0.394925	10.0	1623854.0	0.098734	Y
5	IC 410-452392/7	9.999757	1.175037	10.0	1600367.0	0.117507	Y
6	IC 410-452392/8	19.999514	2.268798	10.0	1605255.0	0.113443	Y
7	IC 410-452392/9	49.998785	3.494521	10.0	1615781.0	0.069892	Y



Calibration

/ Cyclohexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

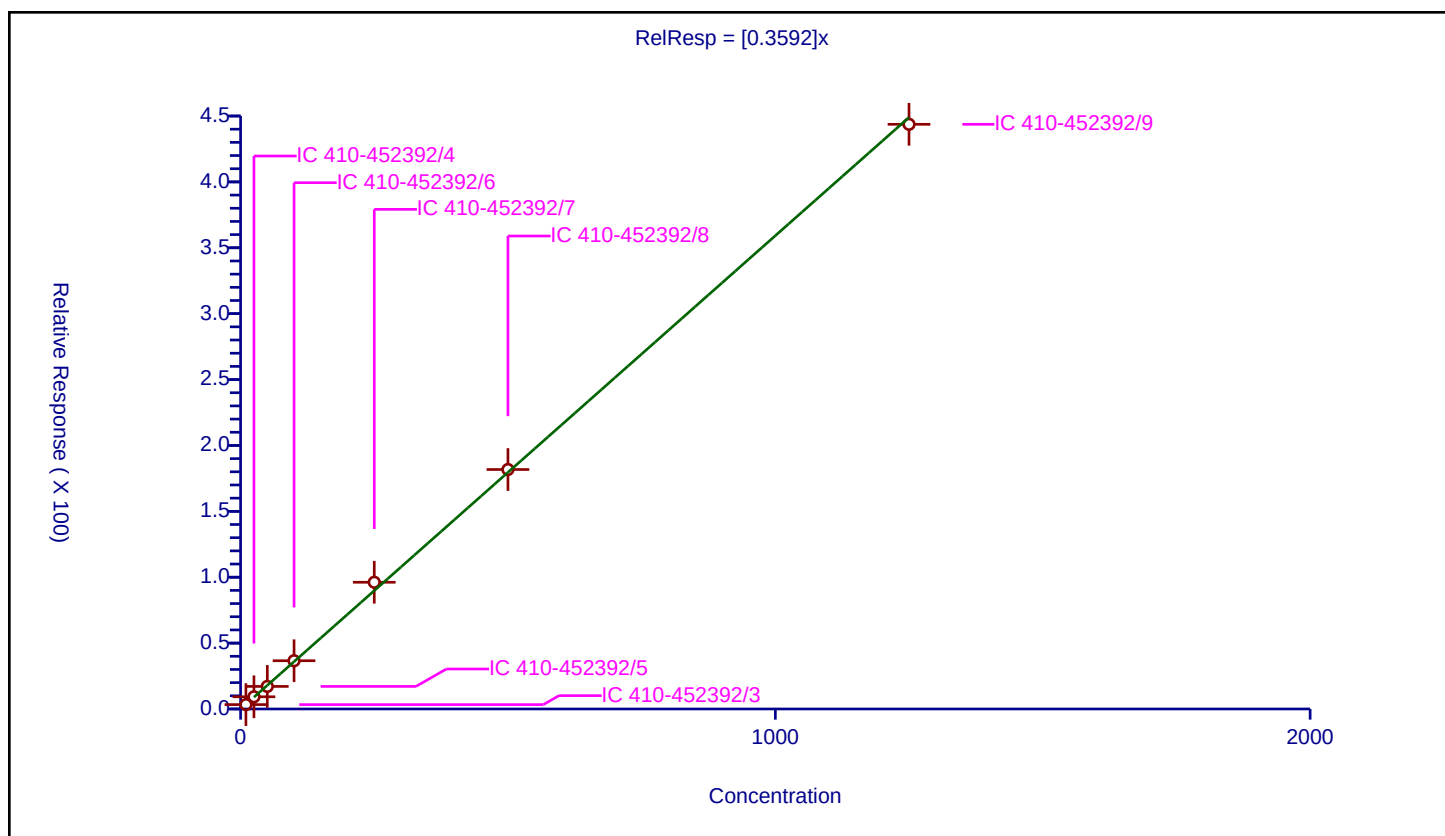
Curve Coefficients

Intercept: 0
Slope: 0.3592

Error Coefficients

Standard Error: 522000
Relative Standard Error: 4.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/3	9.999799	3.324716	50.0	153562.0	0.332478	Y
2	IC 410-452392/4	24.999498	9.248423	50.0	133812.0	0.369944	Y
3	IC 410-452392/5	49.998995	17.126176	50.0	125206.0	0.34253	Y
4	IC 410-452392/6	99.99799	36.617562	50.0	140109.0	0.366183	Y
5	IC 410-452392/7	249.994976	96.178149	50.0	139108.0	0.38472	Y
6	IC 410-452392/8	499.989952	181.738385	50.0	131300.0	0.363484	Y
7	IC 410-452392/9	1249.97488	443.69925	50.0	129556.0	0.354967	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 452392
Environment Testing, LLC

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 21:27 Calibration End Date: 12/11/2023 23:41 Calibration ID: 56725

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-452392/13	CD11X12.D
Level 2	IC 410-452392/14	CD11X13.D
Level 3	IC 410-452392/15	CD11X14.D
Level 4	IC 410-452392/16	CD11X15.D
Level 5	IC 410-452392/17	CD11X16.D
Level 6	ICIS 410-452392/18	CD11X17.D
Level 7	IC 410-452392/19	CD11X18.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	0.2125 0.3431	0.3347 0.3323	0.3354	0.3364	0.3328	Ave		0.318 2			0.1000	14.7		20.0			
Chloromethane	0.3743 0.3909	0.4356 0.3611	0.4277	0.4250	0.3751	Ave		0.398 5			0.1000	7.6		20.0			
Vinyl chloride	0.3048 0.3718	0.3806 0.3502	0.3909	0.3845	0.3593	Ave		0.363 1			0.1000	8.1		20.0			
1,3-Butadiene	0.3284 0.3799	0.3547 0.3539	0.3906	0.3764	0.3785	Ave		0.366 1				5.8		20.0			
Bromomethane	0.2314 0.2487	0.2616 0.2313	0.2723	0.2678	0.2409	Ave		0.250 6			0.1000	6.8		20.0			
Chloroethane	0.1919 0.1975	0.2073 0.1881	0.2130	0.2167	0.1947	Ave		0.201 3			0.1000	5.5		20.0			
Dichlorofluoromethane	0.5139 0.5428	0.5698 0.5150	0.5833	0.5880	0.5258	Ave		0.548 4			0.1000	5.8		20.0			
Trichlorofluoromethane	0.2872 0.4218	0.4080 0.3999	0.4236	0.4157	0.4088	Ave		0.395 0			0.1000	12.2		20.0			
Ethyl ether	0.2054 0.2190	0.2191 0.2061	0.2209	0.2215	0.2139	Ave		0.215 1				3.2		20.0			
Freon 123a	0.3171 0.3065	0.3335 0.2947	0.3205	0.3203	0.2946	Ave		0.312 5				4.6		20.0			
Acrolein	2.0018 2.3893	2.1368 2.3320	2.2429	2.2998	2.2823	Ave		2.240 7				5.9		20.0			
1,1-Dichloroethene	0.2213 0.2272	0.2330 0.2095	0.2319	0.2219	0.2172	Ave		0.223 1			0.1000	3.7		20.0			
Acetone	3.3043 2.7562	2.6613 2.0219	2.4976	2.9070	2.1732	Ave		2.617 4			0.1000	16.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 452392
Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 21:27 Calibration End Date: 12/11/2023 23:41 Calibration ID: 56725

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	0.1802 0.2555	0.2390 0.2354	0.2444	0.2441	0.2445	Ave		0.234 7			0.1000	10.6		20.0			
Methyl iodide	0.4470 0.4778	0.4832 0.4497	0.4839	0.4753	0.4553	Ave		0.467 5				3.5		20.0			
Ethyl bromide	0.1829 0.2150	0.2157 0.2041	0.2219	0.2136	0.2116	Ave		0.209 3				6.1		20.0			
Carbon disulfide	0.7265 0.8172	0.8001 0.7702	0.7941	0.7703	0.7632	Ave		0.777 4			0.1000	3.8		20.0			
Methyl acetate	10.643 8.2522	9.4022 8.3306	8.7907	8.7813	7.8631	Ave		8.866 1			0.1000	10.4		20.0			
Allyl chloride	0.4117 0.4302	0.4193 0.4070	0.4292	0.4219	0.4077	Ave		0.418 1				2.3		20.0			
Methylene Chloride	0.2539 0.2657	0.2817 0.2509	0.2655	0.2653	0.2518	Ave		0.262 1			0.1000	4.2		20.0			
t-Butyl alcohol	1.2623 1.0524	1.2292 1.0856	1.1987	1.1233	0.9771	Ave		1.132 7				9.1		20.0			
Acrylonitrile	4.2814 3.8807	4.2813 3.9194	4.3569	4.3880	3.6952	Ave		4.114 7				6.7		20.0			
Methyl tert-butyl ether	0.7073 0.7413	0.7284 0.7036	0.7541	0.7479	0.7078	Ave		0.727 2			0.1000	2.9		20.0			
trans-1,2-Dichloroethene	0.2629 0.2708	0.2700 0.2545	0.2741	0.2718	0.2561	Ave		0.265 7			0.1000	3.0		20.0			
n-Hexane	0.3072 0.3935	0.3654 0.3628	0.3563	0.3660	0.3671	Ave		0.359 7				7.2		20.0			
1,1-Dichloroethane	0.4764 0.4896	0.5030 0.4658	0.5053	0.4956	0.4754	Ave		0.487 3			0.2000	3.1		20.0			
di-Isopropyl ether	0.8975 0.9263	0.9205 0.8840	0.9250	0.9280	0.8803	Ave		0.908 8				2.3		20.0			
2-Chloro-1,3-butadiene	0.3770 0.4225	0.4067 0.3993	0.4117	0.3992	0.3927	Ave		0.401 3				3.6		20.0			
Ethyl t-butyl ether	0.8367 0.8909	0.8831 0.8438	0.8774	0.8845	0.8397	Ave		0.865 2				2.8		20.0			
2-Butanone (MEK)	6.0307 5.5281	5.3924 5.3310	5.6749	5.7656	5.3037	Ave		5.575 2			0.1000	4.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 452392
Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 21:27 Calibration End Date: 12/11/2023 23:41 Calibration ID: 56725

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	0.2874 0.3065	0.3092 0.2887	0.3070	0.3054	0.2934	Ave		0.299 6			0.1000	3.1		20.0			
2,2-Dichloropropane	0.4169 0.4043	0.4313 0.3783	0.4183	0.4051	0.3770	Ave		0.404 5				5.1		20.0			
Propionitrile	1.2840 1.3933	1.4594 1.4120	1.4854	1.4260	1.3634	Ave		1.403 4				4.7		20.0			
Methacrylonitrile	4.7884 5.5083	5.1269 5.3088	5.5684	5.6837	5.2148	Ave		5.314 2				5.8		20.0			
Bromochloromethane	0.1307 0.1383	0.1334 0.1313	0.1364	0.1388	0.1313	Ave		0.134 3				2.6		20.0			
Tetrahydrofuran	1.5478 1.5790	1.6379 1.5175	1.6774	1.7244	1.5461	Ave		1.604 3				4.8		20.0			
Chloroform	0.5573 0.4841	0.5241 0.4559	0.5000	0.4828	0.4638	Ave		0.495 4			0.2000	7.1		20.0			
1,1,1-Trichloroethane	0.3805 0.4280	0.4260 0.4046	0.4309	0.4107	0.4015	Ave		0.411 8			0.1000	4.4		20.0			
Cyclohexane	0.3615 0.5015	0.4560 0.4683	0.4667	0.4557	0.4645	Ave		0.453 5			0.1000	9.6		20.0			
Carbon tetrachloride	0.3288 0.3906	0.3599 0.3667	0.3738	0.3595	0.3580	Ave		0.362 5			0.1000	5.2		20.0			
1,1-Dichloropropene	0.3497 0.3824	0.3768 0.3629	0.3860	0.3675	0.3600	Ave		0.369 3				3.5		20.0			
Isobutyl alcohol	0.4775 0.3988	0.3818 0.3884	0.4208	0.4115	0.3729	Ave		0.407 4				8.6		20.0			
Benzene	1.1349 1.1550	1.1620 1.0836	1.1758	1.1362	1.0959	Ave		1.134 8			0.5000	3.0		20.0			
1,2-Dichloroethane	0.3252 0.3042	0.3183 0.2845	0.3064	0.3086	0.2895	Ave		0.305 3			0.1000	4.7		20.0			
t-Amyl methyl ether	0.7763 0.8078	0.7815 0.7726	0.8009	0.8082	0.7584	Ave		0.786 5				2.5		20.0			
n-Heptane	0.3503 0.4173	0.3884 0.3874	0.3770	0.3849	0.3822	Ave		0.383 9				5.1		20.0			
n-Butanol	0.3085 0.3792	0.3338 0.3612	0.3316	0.3764	0.3245	Ave		0.345 0				7.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 452392
Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 21:27 Calibration End Date: 12/11/2023 23:41 Calibration ID: 56725

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	0.2938 0.2999	0.3007 0.2810	0.2999	0.2970	0.2816	Ave		0.293 4			0.2000	2.9		20.0			
Methylcyclohexane	0.3820 0.5305	0.4785 0.4924	0.4814	0.4763	0.4904	Ave		0.475 9			0.1000	9.5		20.0			
1,2-Dichloropropane	0.2902 0.2996	0.3004 0.2880	0.2997	0.3001	0.2867	Ave		0.295 0			0.1000	2.1		20.0			
1,4-Dioxane	++++ 0.0780	0.0648 0.0653	0.0774	0.0679	0.0670	Ave		0.070 1			0.0050	8.6		20.0			
Methyl methacrylate	10.130 11.131	10.987 10.318	11.059	11.191	10.429	Ave		10.74 9				4.1		20.0			
Dibromomethane	0.1376 0.1482	0.1432 0.1395	0.1482	0.1492	0.1391	Ave		0.143 6				3.4		20.0			
Bromodichloromethane	0.3299 0.3587	0.3408 0.3418	0.3425	0.3465	0.3376	Ave		0.342 6			0.2000	2.6		20.0			
2-Nitropropane	2.9205 3.1780	2.8269 3.1334	3.1352	3.0835	2.9393	Ave		3.031 0				4.4		20.0			
1-Bromo-2-chloroethane	0.2694 0.3156	0.3059 0.2945	0.3062	0.3180	0.3063	Ave		0.302 3				5.4		20.0			
cis-1,3-Dichloropropene	0.4288 0.4700	0.4323 0.4499	0.4563	0.4537	0.4438	Ave		0.447 8			0.2000	3.2		20.0			
4-Methyl-2-pentanone (MIBK)	12.539 14.429	13.573 14.067	14.358	14.717	13.681	Ave		13.90 9			0.1000	5.2		20.0			
Toluene	0.9386 0.9861	0.9768 0.9336	0.9874	0.9722	0.9355	Ave		0.961 5			0.4000	2.6		20.0			
trans-1,3-Dichloropropene	0.4696 0.5169	0.4908 0.5050	0.4927	0.5002	0.4833	Ave		0.494 1			0.1000	3.1		20.0			
Ethyl methacrylate	0.3828 0.4333	0.4092 0.4201	0.4090	0.4165	0.4102	Ave		0.411 6				3.7		20.0			
1,1,2-Trichloroethane	0.2858 0.2721	0.2743 0.2612	0.2786	0.2785	0.2610	Ave		0.273 1			0.1000	3.4		20.0			
Tetrachloroethene	0.4197 0.4594	0.4535 0.4385	0.4551	0.4468	0.4324	Ave		0.443 6			0.2000	3.2		20.0			
1,3-Dichloropropane	0.4581 0.4793	0.4819 0.4601	0.4747	0.4790	0.4509	Ave		0.469 1				2.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 452392
Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 21:27 Calibration End Date: 12/11/2023 23:41 Calibration ID: 56725

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	9.3148 10.793	10.051 10.128	10.357	10.860	10.166	Ave		10.23 9			0.1000	5.1		20.0			
Dibromochloromethane	0.3039 0.3574	0.3237 0.3481	0.3342	0.3366	0.3277	Ave		0.333 1				5.2		20.0			
1,2-Dibromoethane (EDB)	0.2483 0.2744	0.2788 0.2615	0.2679	0.2662	0.2588	Ave		0.265 1			0.1000	3.8		20.0			
1-Chlorohexane	0.5796 0.5419	0.5564 0.5119	0.5351	0.5195	0.5050	Ave		0.535 6				4.9		20.0			
Chlorobenzene	1.0892 1.1508	1.1201 1.0944	1.1650	1.1469	1.0953	Ave		1.123 1			0.5000	2.8		20.0			
1,1,1,2-Tetrachloroethane	0.3684 0.4062	0.3851 0.3958	0.3891	0.3940	0.3784	Ave		0.388 1				3.2		20.0			
Ethylbenzene	1.7777 1.9547	1.8991 1.8651	1.9192	1.8990	1.8267	Ave		1.877 4			0.1000	3.2		20.0			
m&p-Xylene	0.7186 0.7824	0.7500 0.7474	0.7818	0.7641	0.7390	Ave		0.754 8			0.1000	3.1		20.0			
o-Xylene	0.7154 0.7834	0.7448 0.7463	0.7770	0.7645	0.7327	Ave		0.752 0			0.3000	3.2		20.0			
Styrene	1.1374 1.3064	1.2073 1.2544	1.2407	1.2652	1.2173	Ave		1.232 7			0.3000	4.3		20.0			
Bromoform	0.2019 0.2235	0.1992 0.2194	0.2030	0.2102	0.2018	Ave		0.208 4			0.1000	4.6		20.0			
Isopropylbenzene	1.6699 1.8748	1.7975 1.7795	1.8411	1.8183	1.7517	Ave		1.790 4			0.1000	3.7		20.0			
1,1,2,2-Tetrachloroethane	0.5640 0.5926	0.5794 0.5655	0.5953	0.6042	0.5572	Ave		0.579 7			0.3000	3.1		20.0			
Bromobenzene	0.8397 0.8626	0.8608 0.8213	0.8977	0.8917	0.8223	Ave		0.856 6				3.6		20.0			
trans-1,4-Dichloro-2-butene	0.1424 0.1660	0.1526 0.1597	0.1590	0.1630	0.1538	Ave		0.156 6				5.0		20.0			
1,2,3-Trichloropropane	0.1586 0.1541	0.1664 0.1521	0.1605	0.1615	0.1514	Ave		0.157 8				3.5		20.0			
N-Propylbenzene	3.6984 3.8693	3.8384 3.6084	3.9508	3.8682	3.6709	Ave		3.786 3				3.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 452392
Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 21:27 Calibration End Date: 12/11/2023 23:41 Calibration ID: 56725

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	0.8258 0.8267	0.8399 0.7880	0.8610	0.8423	0.7835	Ave		0.823 9				3.5		20.0			
1,3,5-Trimethylbenzene	2.7405 2.9005	2.8241 2.7510	2.9226	2.8921	2.7191	Ave		2.821 4				3.0		20.0			
4-Chlorotoluene	0.8727 0.8694	0.8677 0.8259	0.8995	0.8886	0.8198	Ave		0.863 4				3.5		20.0			
tert-Butylbenzene	0.5899 0.6721	0.6715 0.6360	0.6845	0.6782	0.6324	Ave		0.652 1				5.2		20.0			
Pentachloroethane	0.4267 0.5376	0.4836 0.5218	0.5040	0.5247	0.5085	Ave		0.501 0				7.4		20.0			
1,2,4-Trimethylbenzene	2.7863 2.9947	2.8786 2.8458	3.0167	3.0003	2.8013	Ave		2.903 4				3.4		20.0			
sec-Butylbenzene	3.3060 3.7033	3.6174 3.4631	3.7003	3.6364	3.4627	Ave		3.555 6				4.2		20.0			
1,3-Dichlorobenzene	1.6352 1.7381	1.7560 1.6487	1.7802	1.7424	1.6360	Ave		1.705 2			0.6000	3.7		20.0			
p-Isopropyltoluene	3.0307 3.3333	3.2402 3.1372	3.3507	3.2843	3.0956	Ave		3.210 3				3.9		20.0			
1,4-Dichlorobenzene	1.7362 1.7572	1.7353 1.6761	1.7706	1.7846	1.6470	Ave		1.729 6			0.5000	2.9		20.0			
1,2,3-Trimethylbenzene	1.3012 1.3653	1.3565 1.3011	1.3677	1.3639	1.2791	Ave		1.333 5				2.9		20.0			
Benzyl chloride	0.1909 0.2610	0.2133 0.2529	0.2317	0.2394	0.2336	Ave		0.231 8				10.2		20.0			
n-Butylbenzene	1.4435 1.6142	1.5513 1.5317	1.6318	1.5967	1.5050	Ave		1.553 5				4.3		20.0			
1,2-Dichlorobenzene	1.5397 1.5964	1.5463 1.5097	1.6236	1.5966	1.4827	Ave		1.556 4			0.4000	3.3		20.0			
1,2-Dibromo-3-Chloropropane	0.0796 0.0901	0.0788 0.0876	0.0794	0.0789	0.0773	Ave		0.081 7			0.0500	6.1		20.0			
1,3,5-Trichlorobenzene	1.1807 1.3170	1.2663 1.2424	1.3235	1.2949	1.2110	Ave		1.262 3				4.3		20.0			
1,2,4-Trichlorobenzene	0.8590 1.0730	0.9227 1.0201	0.9946	0.9854	0.9684	Ave		0.974 8			0.2000	7.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 452392
Environment Testing, LLC

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 21:27 Calibration End Date: 12/11/2023 23:41 Calibration ID: 56725

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	0.4821 0.5491	0.5325 0.4994	0.5526	0.5408	0.5040	Ave		0.522 9				5.3		20.0			
Naphthalene	1.1779 1.6791	1.3481 1.6119	1.4125	1.4469	1.4313	Ave		1.444 0				11.5		20.0			
1,2,3-Trichlorobenzene	0.6314 0.8187	0.6667 0.7632	0.6993	0.7162	0.6945	Ave		0.712 9				8.7		20.0			
Dibromofluoromethane (Surr)	0.2204 0.2249	0.2222 0.2243	0.2216	0.2233	0.2245	Ave		0.223 0				0.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0450 0.0450	0.0453 0.0453	0.0456	0.0451	0.0447	Ave		0.045 1				0.6		20.0			
Toluene-d8 (Surr)	1.2577 1.2694	1.2566 1.2738	1.2517	1.2711	1.2682	Ave		1.264 1				0.7		20.0			
4-Bromofluorobenzene (Surr)	0.5012 0.5121	0.5016 0.5185	0.5053	0.5053	0.5094	Ave		0.507 6				1.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

Analy Batch No.: 452392

SDG No.:

Instrument ID: 10193

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

Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 21:27

Calibration End Date: 12/11/2023 23:41

Calibration ID: 56725

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-452392/13	CD11X12.D
Level 2	IC 410-452392/14	CD11X13.D
Level 3	IC 410-452392/15	CD11X14.D
Level 4	IC 410-452392/16	CD11X15.D
Level 5	IC 410-452392/17	CD11X16.D
Level 6	ICIS 410-452392/18	CD11X17.D
Level 7	IC 410-452392/19	CD11X18.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	8700 704975	33896 1766053	68565	136701	339830	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	15325 803117	44113 1919302	87431	172697	383043	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	12482 763768	38542 1861110	79907	156221	366917	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	13446 780474	35925 1880721	79847	152957	386491	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	9474 510845	26497 1229403	55666	108802	245969	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	7859 405704	20994 999693	43549	88044	198869	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	21043 1115048	57704 2737082	119240	238929	536920	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	11762 866521	41322 2125145	86592	168904	417459	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	8410 449973	22196 1095312	45168	90003	218468	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	12986 629698	33771 1566308	65532	130171	300833	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAdl 0	Ave	57731 3360514	151097 8450546	307405	622579	1574224	10.00 500	25.0 1250	50.0	100.0	250
1,1-Dichloroethene	FB	Ave	9061 466728	23600 1113382	47400	90157	221835	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAdl 0	Ave	19060 775360	37640 1465459	68466	157398	299808	2.00 100	5.00 250	10.0	20.0	50.0
Freon 113	FB	Ave	7377 524879	24203 1251194	49956	99193	249666	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.: 410-161790-1

Analy Batch No.: 452392

SDG No.:

Instrument ID: 10193

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

Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 21:27

Calibration End Date: 12/11/2023 23:41

Calibration ID: 56725

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	18303 981576	48933 2390053	98937	193131	464992	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl bromide	FB	Ave	7491 441907	21847 1085147	45368	86812	216163	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	29747 1678820	81023 4093133	162355	313014	779361	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAdl 0	Ave	6139 232146	13298 603787	24098	47546	108478	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	16859 883740	42464 2162959	87747	171432	416364	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	10396 545785	28532 1333450	54285	107784	257115	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAdl 0	Ave	14562 592128	34769 1573639	65723	121642	269585	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAdl 0	Ave	6174 272924	15138 710186	29859	59396	127444	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tert-butyl ether	FB	Ave	28961 1522863	73768 3739425	154163	303894	722804	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	10764 556344	27339 1352643	56033	110463	261558	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	12579 808320	37001 1927967	72843	148734	374901	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	19509 1005944	50939 2475289	103295	201377	485432	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	36750 1903110	93219 4697838	189104	377080	898950	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	15439 867976	41191 2122122	84165	162205	401061	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	34261 1830203	89434 4484340	179381	359403	857468	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAdl 0	Ave	34786 1555121	76267 3863855	155567	312175	731682	2.00 100	5.00 250	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	11767 629624	31309 1534117	62757	124100	299607	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	17073 830602	43681 2010663	85511	164598	385000	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.: 410-161790-1

Analy Batch No.: 452392

SDG No.:

Instrument ID: 10193

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

Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 21:27

Calibration End Date: 12/11/2023 23:41

Calibration ID: 56725

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	TBAdl 0	Ave	14813 783924	41281 2046857	81437	154424	376174	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAdl 0	Ave	27620 1549568	72512 3847742	152649	307739	719423	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	5353 284196	13510 697705	27883	56405	134071	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAdl 0	Ave	4464 222091	11583 549929	22992	46684	106650	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	22821 994622	53074 2422707	102212	196191	473657	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	15579 879346	43142 2150263	88101	166904	410011	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	14804 1030217	46177 2488742	95410	185183	474323	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	13465 802439	36444 1948893	76427	146096	365624	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	14319 785600	38158 1928421	78920	149342	367591	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAdl 0	Ave	13771 561004	27002 1407371	57674	111391	257238	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	46472 2372895	117681 5758950	240388	461688	1119156	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	13315 625013	32239 1512081	62643	125412	295610	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	31788 1659586	79144 4105797	163740	328386	774496	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	14343 857327	39333 2058964	77071	156416	390311	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butanol	TBAdl 0	Ave	15569 933323	41308 2290397	79548	178332	391669	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	12030 616114	30455 1493375	61311	120689	287521	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	15643 1089973	48454 2616733	98410	193533	500767	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	11882 615564	30419 1530766	61262	121957	292772	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.: 410-161790-1

Analy Batch No.: 452392

SDG No.:

Instrument ID: 10193

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

Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 21:27

Calibration End Date: 12/11/2023 23:41

Calibration ID: 56725

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane	TBA01	Ave	+++++	4579	10608	18382	46248	+++++	25.0	50.0	100	250
			109779	236766				500	1250			
Methyl methacrylate	TBA01	Ave	5843	15540	30317	60595	143879	0.200	0.500	1.00	2.00	5.00
			313133	747853				10.0	25.0			
Dibromomethane	FB	Ave	5636	14505	30308	60634	142096	0.200	0.500	1.00	2.00	5.00
			304525	741296				10.0	25.0			
Bromodichloromethane	FB	Ave	13510	34512	70024	140806	344772	0.200	0.500	1.00	2.00	5.00
			736839	1816650				10.0	25.0			
2-Nitropropane	TBA01	Ave	8423	19991	42973	83476	202752	1.00	2.50	5.00	10.0	25.0
			447001	1135527				50.0	125			
1-Bromo-2-chloroethane	FB	Ave	11032	30979	62600	129220	312762	0.200	0.500	1.00	2.00	5.00
			648350	1565129				10.0	25.0			
cis-1,3-Dichloropropene	FB	Ave	17557	43780	93280	184348	453200	0.200	0.500	1.00	2.00	5.00
			965494	2390817				10.0	25.0			
4-Methyl-2-pentanone (MIBK)	TBA01	Ave	72328	191964	393595	796870	1887430	2.00	5.00	10.0	20.0	50.0
			4058960	10195457				100	250			
Toluene	CBZd5	Ave	29831	77332	157020	307852	742678	0.200	0.500	1.00	2.00	5.00
			1575422	3805439				10.0	25.0			
trans-1,3-Dichloropropene	CBZd5	Ave	14925	38858	78355	158384	383692	0.200	0.500	1.00	2.00	5.00
			825819	2058324				10.0	25.0			
Ethyl methacrylate	CBZd5	Ave	12167	32398	65043	131876	325668	0.200	0.500	1.00	2.00	5.00
			692186	1712572				10.0	25.0			
1,1,2-Trichloroethane	CBZd5	Ave	9082	21717	44309	88200	207223	0.200	0.500	1.00	2.00	5.00
			434673	1064541				10.0	25.0			
Tetrachloroethene	CBZd5	Ave	13340	35905	72369	141485	343266	0.200	0.500	1.00	2.00	5.00
			733983	1787353				10.0	25.0			
1,3-Dichloropropane	CBZd5	Ave	14560	38150	75490	151691	357947	0.200	0.500	1.00	2.00	5.00
			765671	1875672				10.0	25.0			
2-Hexanone	TBA01	Ave	53729	142157	283929	588017	1402425	2.00	5.00	10.0	20.0	50.0
			3036165	7340905				100	250			
Dibromochloromethane	CBZd5	Ave	9659	25629	53153	106587	260164	0.200	0.500	1.00	2.00	5.00
			570920	1419064				10.0	25.0			
1,2-Dibromoethane (EDB)	CBZd5	Ave	7892	22075	42601	84298	205469	0.200	0.500	1.00	2.00	5.00
			438405	1066003				10.0	25.0			
1-Chlorohexane	CBZd5	Ave	18422	44047	85097	164515	400900	0.200	0.500	1.00	2.00	5.00
			865703	2086489				10.0	25.0			

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

Analy Batch No.: 452392

SDG No.:

Instrument ID: 10193

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

Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 21:27

Calibration End Date: 12/11/2023 23:41

Calibration ID: 56725

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	34616 1838587	88677 4461216	185254	363186	869576	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd5	Ave	11707 648925	30486 1613342	61882	124769	300411	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd5	Ave	56500 3122768	150351 7602583	305197	601320	1450251	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd5	Ave	45680 2500002	118757 6093253	248649	483916	1173333	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd5	Ave	22736 1251570	58968 3041968	123555	242100	581730	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Styrene	CBZd5	Ave	36148 2087043	95578 5113352	197298	400648	966398	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd5	Ave	6417 357087	15769 894248	32284	66548	160229	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd5	Ave	53074 2995216	142307 7253779	292782	575778	1390735	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd4	Ave	10271 572200	26675 1404574	55267	111086	264242	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd4	Ave	15293 832877	39626 2039981	83345	163952	389945	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	DCBd4	Ave	25936 1603128	70234 3965883	147630	299683	729396	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd4	Ave	2889 148787	7660 377790	14899	29701	71794	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd4	Ave	67357 3735966	176705 8962858	366788	711230	1740820	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd4	Ave	15040 798211	38664 1957204	79931	154865	371575	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd4	Ave	49912 2800564	130009 6833167	271334	531756	1289480	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd4	Ave	15894 839467	39945 2051366	83510	163376	388785	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd4	Ave	10743 648979	30915 1579695	63551	124693	299921	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Pentachloroethane	DCBd4	Ave	7772 519031	22261 1296195	46792	96474	241155	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd4	Ave	50745 2891517	132518 7068513	280066	551654	1328434	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd4	Ave	60211 3575738	166533 8601972	343532	668614	1642103	0.200 10.0	0.500 25.0	1.00	2.00	5.00

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Analy Batch No.: 452392

SDG No.:

Instrument ID: 10193

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

Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 21:27

Calibration End Date: 12/11/2023 23:41

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ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,3-Dichlorobenzene	DCBd4	Ave	29782 1678162	80838 4095253	165270	320367	775814	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd4	Ave	55197 3218405	149167 7792341	311071	603870	1468012	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd4	Ave	31621 1696617	79885 4163217	164377	328133	781058	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd4	Ave	23698 1318241	62447 3231668	126980	250783	606581	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd4	Ave	3477 251995	9818 628233	21507	44022	110788	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd4	Ave	26290 1558615	71415 3804524	151491	293574	713710	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd4	Ave	28042 1541377	71186 3749917	150731	293562	703130	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	1449 87009	3628 217672	7374	14509	36662	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd4	Ave	21504 1271651	58297 3085921	122874	238093	574272	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trichlorobenzene	DCBd4	Ave	15645 1036062	42479 2533868	92333	181190	459227	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd4	Ave	8781 530205	24515 1240392	51303	99437	238986	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd4	Ave	21452 1621269	62062 4003750	131132	266032	678769	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd4	Ave	11499 790460	30694 1895775	64925	131691	329360	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	451144 462070	450039 476883	453124	453645	458570	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	92180 92379	91735 96347	93174	91681	91235	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd5	Ave	1998646 2027962	1989735 2076985	1990550	2012517	2013700	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	796512 818052	794297 845362	803520	800096	808909	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend:

Ave = Average ISTD

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Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-452392/13	CD11X12.D
Level 2	IC 410-452392/14	CD11X13.D
Level 3	IC 410-452392/15	CD11X14.D
Level 4	IC 410-452392/16	CD11X15.D
Level 5	IC 410-452392/17	CD11X16.D
Level 6	ICIS 410-452392/18	CD11X17.D
Level 7	IC 410-452392/19	CD11X18.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	-33.2 4.4	5.2	5.4	5.7	4.6	7.8	50 30	30	30	30	30	30
Chloromethane	-6.1 -9.4	9.3	7.3	6.6	-5.9	-1.9	50 30	30	30	30	30	30
Vinyl chloride	-16.1 -3.6	4.8	7.6	5.9	-1.1	2.4	50 30	30	30	30	30	30
1,3-Butadiene	-10.3 -3.3	-3.1	6.7	2.8	3.4	3.8	50 30	30	30	30	30	30
Bromomethane	-7.7 -7.7	4.4	8.7	6.9	-3.9	-0.8	50 30	30	30	30	30	30
Chloroethane	-4.7 -6.6	3.0	5.8	7.6	-3.3	-1.9	50 30	30	30	30	30	30
Dichlorofluoromethane	-6.3 -6.1	3.9	6.4	7.2	-4.1	-1.0	50 30	30	30	30	30	30
Trichlorofluoromethane	-27.3 1.2	3.3	7.2	5.2	3.5	6.8	50 30	30	30	30	30	30
Ethyl ether	-4.5 -4.2	1.9	2.7	2.9	-0.6	1.8	50 30	30	30	30	30	30
Freon 123a	1.5 -5.7	6.7	2.6	2.5	-5.7	-1.9	50 30	30	30	30	30	30
Acrolein	-10.7 4.1	-4.6	0.1	2.6	1.9	6.6	50 30	30	30	30	30	30
1,1-Dichloroethene	-0.8 -6.1	4.4	3.9	-0.6	-2.6	1.8	50 30	30	30	30	30	30
Acetone	26.2 -22.7	1.7	-4.6	11.1	-17.0	5.3	50 30	30	30	30	30	30
Freon 113	-23.2 0.3	1.8	4.1	4.0	4.2	8.8	50 30	30	30	30	30	30
Methyl iodide	-4.4 -3.8	3.4	3.5	1.7	-2.6	2.2	50 30	30	30	30	30	30

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	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	-12.6 -2.4	3.1	6.0	2.1	1.1	2.8	50 30	30	30	30	30	30
Carbon disulfide	-6.5 -0.9	2.9	2.2	-0.9	-1.8	5.1	50 30	30	30	30	30	30
Methyl acetate	20.0 -6.0	6.0	-0.9	-1.0	-11.3	-6.9	50 30	30	30	30	30	30
Allyl chloride	-1.5 -2.7	0.3	2.6	0.9	-2.5	2.9	50 30	30	30	30	30	30
Methylene Chloride	-3.1 -4.3	7.5	1.3	1.2	-3.9	1.4	50 30	30	30	30	30	30
t-Butyl alcohol	11.4 -4.2	8.5	5.8	-0.8	-13.7	-7.1	50 30	30	30	30	30	30
Acrylonitrile	4.1 -4.7	4.0	5.9	6.6	-10.2	-5.7	50 30	30	30	30	30	30
Methyl tert-butyl ether	-2.7 -3.2	0.2	3.7	2.8	-2.7	1.9	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-1.1 -4.2	1.6	3.1	2.3	-3.6	1.9	50 30	30	30	30	30	30
n-Hexane	-14.6 0.8	1.6	-1.0	1.7	2.0	9.4	50 30	30	30	30	30	30
1,1-Dichloroethane	-2.2 -4.4	3.2	3.7	1.7	-2.4	0.5	50 30	30	30	30	30	30
di-Isopropyl ether	-1.2 -2.7	1.3	1.8	2.1	-3.1	1.9	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-6.0 -0.5	1.4	2.6	-0.5	-2.1	5.3	50 30	30	30	30	30	30
Ethyl t-butyl ether	-3.3 -2.5	2.1	1.4	2.2	-2.9	3.0	50 30	30	30	30	30	30
2-Butanone (MEK)	8.2 -4.4	-3.3	1.8	3.4	-4.9	-0.8	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-4.1 -3.7	3.2	2.4	1.9	-2.1	2.3	50 30	30	30	30	30	30
2,2-Dichloropropane	3.1 -6.5	6.6	3.4	0.2	-6.8	0.0	50 30	30	30	30	30	30
Propionitrile	-8.5 0.6	4.0	5.8	1.6	-2.9	-0.7	50 30	30	30	30	30	30
Methacrylonitrile	-9.9 -0.1	-3.5	4.8	7.0	-1.9	3.7	50 30	30	30	30	30	30
Bromochloromethane	-2.7 -2.3	-0.7	1.5	3.3	-2.3	3.0	50 30	30	30	30	30	30

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	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	-3.5 -5.4	2.1	4.6	7.5	-3.6	-1.6	50 30	30	30	30	30	30
Chloroform	12.5 -8.0	5.8	0.9	-2.5	-6.4	-2.3	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-7.6 -1.7	3.5	4.7	-0.2	-2.5	4.0	50 30	30	30	30	30	30
Cyclohexane	-20.3 3.3	0.6	2.9	0.5	2.4	10.6	50 30	30	30	30	30	30
Carbon tetrachloride	-9.3 1.2	-0.7	3.1	-0.8	-1.2	7.8	50 30	30	30	30	30	30
1,1-Dichloropropene	-5.3 -1.7	2.0	4.5	-0.5	-2.5	3.5	50 30	30	30	30	30	30
Isobutyl alcohol	17.2 -4.7	-6.3	3.3	1.0	-8.5	-2.1	50 30	30	30	30	30	30
Benzene	0.0 -4.5	2.4	3.6	0.1	-3.4	1.8	50 30	30	30	30	30	30
1,2-Dichloroethane	6.5 -6.8	4.3	0.4	1.1	-5.2	-0.3	50 30	30	30	30	30	30
t-Amyl methyl ether	-1.3 -1.8	-0.6	1.8	2.7	-3.6	2.7	50 30	30	30	30	30	30
n-Heptane	-8.8 0.9	1.2	-1.8	0.3	-0.4	8.7	50 30	30	30	30	30	30
n-Butanol	-10.6 4.7	-3.3	-3.9	9.1	-6.0	9.9	50 30	30	30	30	30	30
Trichloroethene	0.1 -4.2	2.5	2.2	1.2	-4.0	2.2	50 30	30	30	30	30	30
Methylcyclohexane	-19.7 3.5	0.5	1.1	0.1	3.0	11.5	50 30	30	30	30	30	30
1,2-Dichloropropane	-1.6 -2.3	1.8	1.6	1.8	-2.8	1.6	50 30	30	30	30	30	30
1,4-Dioxane	++++ -6.8	-7.6	10.4	-3.1	-4.3	11.4	30	50	30	30	30	30
Methyl methacrylate	-5.8 -4.0	2.2	2.9	4.1	-3.0	3.6	50 30	30	30	30	30	30
Dibromomethane	-4.2 -2.9	-0.3	3.2	3.9	-3.1	3.2	50 30	30	30	30	30	30
Bromodichloromethane	-3.7 -0.2	-0.5	0.0	1.2	-1.4	4.7	50 30	30	30	30	30	30
2-Nitropropane	-3.6 3.4	-6.7	3.4	1.7	-3.0	4.8	50 30	30	30	30	30	30

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1-Bromo-2-chloroethane	-10.9 -2.6	1.2	1.3	5.2	1.3	4.4	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-4.3 0.5	-3.5	1.9	1.3	-0.9	4.9	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-9.8 1.1	-2.4	3.2	5.8	-1.6	3.7	50 30	30	30	30	30	30
Toluene	-2.4 -2.9	1.6	2.7	1.1	-2.7	2.6	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-5.0 2.2	-0.7	-0.3	1.2	-2.2	4.6	50 30	30	30	30	30	30
Ethyl methacrylate	-7.0 2.1	-0.6	-0.6	1.2	-0.3	5.3	50 30	30	30	30	30	30
1,1,2-Trichloroethane	4.6 -4.4	0.5	2.0	2.0	-4.4	-0.4	50 30	30	30	30	30	30
Tetrachloroethene	-5.4 -1.2	2.2	2.6	0.7	-2.5	3.6	50 30	30	30	30	30	30
1,3-Dichloropropane	-2.4 -1.9	2.7	1.2	2.1	-3.9	2.2	50 30	30	30	30	30	30
2-Hexanone	-9.0 -1.1	-1.8	1.2	6.1	-0.7	5.4	50 30	30	30	30	30	30
Dibromochloromethane	-8.8 4.5	-2.8	0.3	1.1	-1.6	7.3	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-6.3 -1.4	5.2	1.0	0.4	-2.4	3.5	50 30	30	30	30	30	30
1-Chlorohexane	8.2 -4.4	3.9	-0.1	-3.0	-5.7	1.2	50 30	30	30	30	30	30
Chlorobenzene	-3.0 -2.6	-0.3	3.7	2.1	-2.5	2.5	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-5.1 2.0	-0.8	0.3	1.5	-2.5	4.7	50 30	30	30	30	30	30
Ethylbenzene	-5.3 -0.7	1.2	2.2	1.2	-2.7	4.1	50 30	30	30	30	30	30
m&p-Xylene	-4.8 -1.0	-0.6	3.6	1.2	-2.1	3.7	50 30	30	30	30	30	30
o-Xylene	-4.9 -0.8	-1.0	3.3	1.7	-2.6	4.2	50 30	30	30	30	30	30
Styrene	-7.7 1.8	-2.1	0.7	2.6	-1.2	6.0	50 30	30	30	30	30	30
Bromoform	-3.1 5.3	-4.4	-2.6	0.8	-3.2	7.2	50 30	30	30	30	30	30

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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	-6.7 -0.6	0.4	2.8	1.6	-2.2	4.7	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-2.7 -2.5	-0.1	2.7	4.2	-3.9	2.2	50 30	30	30	30	30	30
Bromobenzene	-2.0 -4.1	0.5	4.8	4.1	-4.0	0.7	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-9.1 1.9	-2.6	1.5	4.1	-1.8	6.0	50 30	30	30	30	30	30
1,2,3-Trichloropropane	0.5 -3.6	5.4	1.7	2.4	-4.1	-2.3	50 30	30	30	30	30	30
N-Propylbenzene	-2.3 -4.7	1.4	4.3	2.2	-3.0	2.2	50 30	30	30	30	30	30
2-Chlorotoluene	0.2 -4.4	1.9	4.5	2.2	-4.9	0.3	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-2.9 -2.5	0.1	3.6	2.5	-3.6	2.8	50 30	30	30	30	30	30
4-Chlorotoluene	1.1 -4.3	0.5	4.2	2.9	-5.0	0.7	50 30	30	30	30	30	30
tert-Butylbenzene	-9.5 -2.5	3.0	5.0	4.0	-3.0	3.1	50 30	30	30	30	30	30
Pentachloroethane	-14.8 4.2	-3.5	0.6	4.7	1.5	7.3	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-4.0 -2.0	-0.9	3.9	3.3	-3.5	3.1	50 30	30	30	30	30	30
sec-Butylbenzene	-7.0 -2.6	1.7	4.1	2.3	-2.6	4.2	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-4.1 -3.3	3.0	4.4	2.2	-4.1	1.9	50 30	30	30	30	30	30
p-Isopropyltoluene	-5.6 -2.3	0.9	4.4	2.3	-3.6	3.8	50 30	30	30	30	30	30
1,4-Dichlorobenzene	0.4 -3.1	0.3	2.4	3.2	-4.8	1.6	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-2.4 -2.4	1.7	2.6	2.3	-4.1	2.4	50 30	30	30	30	30	30
Benzyl chloride	-17.6 9.1	-8.0	-0.1	3.3	0.8	12.6	50 30	30	30	30	30	30
n-Butylbenzene	-7.1 -1.4	-0.1	5.0	2.8	-3.1	3.9	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-1.1 -3.0	-0.7	4.3	2.6	-4.7	2.6	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 Job No.: 410-161790-1 Analy Batch No.: 452392
Environment Testing, LLC

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2023 21:27 Calibration End Date: 12/11/2023 23:41 Calibration ID: 56725

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	-2.6 7.3	-3.5	-2.8	-3.4	-5.4	10.3	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-6.5 -1.6	0.3	4.9	2.6	-4.1	4.3	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-11.9 4.7	-5.3	2.0	1.1	-0.7	10.1	50 30	30	30	30	30	30
Hexachlorobutadiene	-7.8 -4.5	1.8	5.7	3.4	-3.6	5.0	50 30	30	30	30	30	30
Naphthalene	-18.4 11.6	-6.6	-2.2	0.2	-0.9	16.3	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-11.4 7.1	-6.5	-1.9	0.5	-2.6	14.8	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-1.2 0.6	-0.4	-0.6	0.1	0.7	0.8	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-0.3 0.4	0.3	1.0	0.0	-1.0	-0.4	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.5 0.8	-0.6	-1.0	0.6	0.3	0.4	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-1.3 2.1	-1.2	-0.5	-0.5	0.4	0.9	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X12.D
 Lims ID: IC std1 0.2
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 11-Dec-2023 21:27:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0101546-013
 Misc. Info.: IC STD1 0.2
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 14-Dec-2023 10:49:39 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1621

First Level Reviewer: UKEK

Date: 14-Dec-2023 10:40:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.823	1.817	0.006	98	8700	0.2000	0.1336	
5 Chloromethane	50	2.000	2.000	0.000	99	15325	0.2000	0.1878	
6 Vinyl chloride	62	2.098	2.110	-0.012	97	12482	0.2000	0.1679	
7 Butadiene	39	2.110	2.110	0.000	93	13446	0.2000	0.1794	
9 Bromomethane	94	2.415	2.409	0.006	90	9474	0.2000	0.1847	
10 Chloroethane	64	2.469	2.470	-0.001	97	7859	0.2000	0.1907	
11 Dichlorofluoromethane	67	2.701	2.701	0.000	97	21043	0.2000	0.1874	
12 Trichlorofluoromethane	101	2.762	2.762	0.000	87	11762	0.2000	0.1454	
13 Pentane	43	2.768	2.762	0.006	98	15212	0.2000	0.1776	
14 Ethyl ether	59	2.957	2.957	0.000	93	8410	0.2000	0.1909	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.055	3.055	0.000	75	12986	0.2000	0.2030	M
17 Acrolein	56	3.122	3.110	0.012	99	57731	10.0	8.93	
18 1,1-Dichloroethene	96	3.238	3.232	0.006	98	9061	0.2000	0.1983	
20 Acetone	43	3.274	3.268	0.006	99	19060	2.00	2.52	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.286	3.287	-0.001	87	7377	0.2000	0.1535	
22 Iodomethane	142	3.408	3.409	0.000	99	18303	0.2000	0.1912	
24 Isopropyl alcohol	45	3.408	3.421	-0.013	34	8321	4.00	4.94	
23 Ethyl bromide	108	3.439	3.433	0.006	95	7491	0.2000	0.1748	
25 Carbon disulfide	76	3.500	3.500	0.000	99	29747	0.2000	0.1869	
26 Methyl acetate	43	3.634	3.646	-0.012	20	6139	0.2000	0.2401	M
29 3-Chloro-1-propene	41	3.664	3.665	-0.001	89	16859	0.2000	0.1969	
30 Methylene Chloride	84	3.829	3.829	0.000	92	10396	0.2000	0.1937	
* 31 t-Butyl alcohol-d10 (IS)	65	3.841	3.853	-0.012	97	144204	50.0	50.0	
32 2-Methyl-2-propanol	59	3.957	3.969	-0.012	92	14562	4.00	4.46	
33 Acrylonitrile	53	4.158	4.152	0.006	90	6174	0.5000	0.5203	
35 trans-1,2-Dichloroethene	96	4.201	4.201	0.000	99	10764	0.2000	0.1978	
34 Methyl tert-butyl ether	73	4.207	4.207	0.000	92	28961	0.2000	0.1945	
36 Hexane	57	4.634	4.628	0.006	91	12579	0.2000	0.1708	
37 1,1-Dichloroethane	63	4.871	4.872	-0.001	96	19509	0.2000	0.1955	
39 Isopropyl ether	45	4.945	4.933	0.011	93	36750	0.2000	0.1975	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.981	4.975	0.006	93	15439	0.2000	0.1879	
41 Tert-butyl ethyl ether	59	5.481	5.481	0.000	97	34261	0.2000	0.1934	M
42 2-Butanone (MEK)	43	5.694	5.682	0.012	99	34786	2.00	2.16	M
43 cis-1,2-Dichloroethene	96	5.707	5.719	-0.012	85	11767	0.2000	0.1918	
44 2,2-Dichloropropane	77	5.731	5.731	0.000	85	17073	0.2000	0.2062	
45 Propionitrile	54	5.804	5.780	0.024	98	14813	4.00	3.66	
47 Methacrylonitrile	67	5.999	5.999	0.000	90	27620	2.00	1.80	
48 Chlorobromomethane	128	6.054	6.048	0.006	91	5353	0.2000	0.1947	
49 Tetrahydrofuran	71	6.066	6.054	0.012	80	4464	1.00	0.9648	a
S 52 1,2-Dichloroethene, Total	100				0			0.3896	
50 Chloroform	83	6.219	6.213	0.006	93	22821	0.2000	0.2250	
\$ 54 Dibromofluoromethane (Surr)	113	6.426	6.426	0.000	94	451144	10.0	9.88	
53 1,1,1-Trichloroethane	97	6.432	6.432	0.000	36	15579	0.2000	0.1848	
55 Cyclohexane	56	6.530	6.530	0.000	89	14804	0.2000	0.1595	
56 Carbon tetrachloride	117	6.639	6.640	-0.001	85	13465	0.2000	0.1814	
57 1,1-Dichloropropene	75	6.645	6.646	-0.001	93	14319	0.2000	0.1894	
58 Isobutyl alcohol	41	6.847	6.841	0.006	93	13771	10.0	11.7	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.889	6.890	-0.001	99	92180	10.0	9.97	
60 Benzene	78	6.920	6.914	0.006	93	46472	0.2000	0.2000	
61 1,2-Dichloroethane	62	6.987	6.987	0.000	96	13315	0.2000	0.2130	
64 Tert-amyl methyl ether	73	7.121	7.121	0.000	98	31788	0.2000	0.1974	
* 65 Fluorobenzene (IS)	96	7.328	7.335	-0.007	99	2047394	10.0	10.0	
66 n-Heptane	43	7.346	7.347	-0.001	41	14343	0.2000	0.1825	
67 n-Butanol	56	7.743	7.743	0.000	92	15569	17.5	15.6	
68 Trichloroethene	95	7.816	7.816	0.000	98	12030	0.2000	0.2003	
69 Methylcyclohexane	83	8.127	8.127	0.000	86	15643	0.2000	0.1605	
70 1,2-Dichloropropane	63	8.157	8.158	-0.001	96	11882	0.2000	0.1968	
71 2-ethoxy-2-methyl butane	87	8.188	8.182	0.006	94	18507	0.2000	0.1919	
74 1,4-Dioxane	88	8.261	8.261	0.000	32	1426	10.0	7.06	M
73 Methyl methacrylate	69	8.255	8.261	-0.006	93	5843	0.2000	0.1885	
72 Dibromomethane	93	8.255	8.267	-0.012	83	5636	0.2000	0.1917	
76 Dichlorobromomethane	83	8.511	8.517	-0.006	98	13510	0.2000	0.1926	
77 2-Nitropropane	41	8.810	8.810	0.000	97	8423	1.00	0.9636	
78 1-Bromo-2-chloroethane	63	8.913	8.914	-0.001	98	11032	0.2000	0.1783	
80 cis-1,3-Dichloropropene	75	9.084	9.090	-0.006	96	17557	0.2000	0.1915	
82 4-Methyl-2-pentanone (MIBK)	43	9.291	9.292	-0.001	96	72328	2.00	1.80	
\$ 83 Toluene-d8 (Surr)	98	9.413	9.413	0.000	93	1998646	10.0	9.95	
84 Toluene	92	9.492	9.499	-0.007	99	29831	0.2000	0.1952	
85 trans-1,3-Dichloropropene	75	9.785	9.779	0.006	93	14925	0.2000	0.1901	
86 Ethyl methacrylate	69	9.858	9.858	0.000	88	12167	0.2000	0.1860	
87 1,1,2-Trichloroethane	97	9.992	9.993	-0.001	91	9082	0.2000	0.2093	
S 107 1,3-Dichloropropene, Total	100				0			0.3816	
88 Tetrachloroethene	166	10.072	10.072	0.000	96	13340	0.2000	0.1892	
89 1,3-Dichloropropane	76	10.163	10.163	0.000	91	14560	0.2000	0.1953	
106 2-Hexanone	43	10.236	10.230	0.006	96	53729	2.00	1.82	
108 Chlorodibromomethane	129	10.382	10.383	-0.001	93	9659	0.2000	0.1825	
110 Ethylene Dibromide	107	10.492	10.492	0.000	96	7892	0.2000	0.1873	
* 111 Chlorobenzene-d5 (IS)	117	10.943	10.950	-0.007	85	1589112	10.0	10.0	
112 1-Chlorohexane	91	10.968	10.968	0.000	90	18422	0.2000	0.2164	
113 Chlorobenzene	112	10.974	10.974	0.000	97	34616	0.2000	0.1940	
115 Ethylbenzene	91	11.065	11.066	-0.001	98	56500	0.2000	0.1894	
114 1,1,1,2-Tetrachloroethane	131	11.065	11.066	-0.001	93	11707	0.2000	0.1898	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.187	11.187	0.000	97	45680	0.4000	0.3809	
S 117 Xylenes, Total	106				0			0.5711	
118 o-Xylene	106	11.529	11.529	0.000	96	22736	0.2000	0.1903	
119 Styrene	104	11.541	11.541	0.000	95	36148	0.2000	0.1845	
120 Bromoform	173	11.699	11.700	-0.001	96	6417	0.2000	0.1937	
121 Isopropylbenzene	105	11.840	11.840	0.000	96	53074	0.2000	0.1865	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	93	796512	10.0	9.87	
126 1,1,2,2-Tetrachloroethane	83	12.096	12.096	0.000	69	10271	0.2000	0.1946	
125 Bromobenzene	156	12.096	12.102	-0.006	91	15293	0.2000	0.1961	
127 trans-1,4-Dichloro-2-butene	53	12.120	12.120	0.000	92	25936	2.00	1.82	
128 1,2,3-Trichloropropane	110	12.138	12.139	0.000	76	2889	0.2000	0.2010	
129 N-Propylbenzene	91	12.175	12.175	0.000	98	67357	0.2000	0.1954	
130 2-Chlorotoluene	126	12.248	12.248	0.000	97	15040	0.2000	0.2005	
131 1,3,5-Trimethylbenzene	105	12.315	12.321	-0.006	94	49912	0.2000	0.1943	
132 4-Chlorotoluene	126	12.346	12.346	0.000	95	15894	0.2000	0.2022	
133 tert-Butylbenzene	134	12.565	12.565	0.000	92	10743	0.2000	0.1809	
134 Pentachloroethane	167	12.595	12.596	-0.001	77	7772	0.2000	0.1704	
135 1,2,4-Trimethylbenzene	105	12.608	12.608	0.000	97	50745	0.2000	0.1919	
136 sec-Butylbenzene	105	12.730	12.730	0.000	94	60211	0.2000	0.1860	
137 1,3-Dichlorobenzene	146	12.827	12.827	0.000	97	29782	0.2000	0.1918	
138 4-Isopropyltoluene	119	12.845	12.846	-0.001	97	55197	0.2000	0.1888	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.882	0.000	94	910627	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.900	12.901	-0.001	95	31621	0.2000	0.2008	
141 1,2,3-Trimethylbenzene	120	12.919	12.919	0.000	97	23698	0.2000	0.1951	
142 Benzyl chloride	126	12.986	12.986	0.000	98	3477	0.2000	0.1647	
145 p-Diethylbenzene	119	13.120	13.120	0.000	95	34178	0.2000	0.1892	
143 n-Butylbenzene	92	13.138	13.138	0.000	97	26290	0.2000	0.1858	
144 1,2-Dichlorobenzene	146	13.169	13.169	0.000	98	28042	0.2000	0.1979	
148 1,2-Dibromo-3-Chloropropane	155	13.717	13.717	0.000	84	1449	0.2000	0.1948	
149 1,3,5-Trichlorobenzene	180	13.845	13.845	0.000	97	21504	0.2000	0.1871	
150 1,2,4-Trichlorobenzene	180	14.278	14.272	0.006	94	15645	0.2000	0.1763	
151 Hexachlorobutadiene	225	14.363	14.364	-0.001	97	8781	0.2000	0.1844	
152 Naphthalene	128	14.461	14.455	0.006	97	21452	0.2000	0.1631	
153 1,2,3-Trichlorobenzene	180	14.607	14.601	0.006	95	11499	0.2000	0.1771	
154 2-Methylnaphthalene	142	15.217	15.217	0.000	94	4063	0.2000	0.1150	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00107

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00117

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00182

Amount Added: 2.00

Units: uL

MSV_29_826ISS_00052

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 14-Dec-2023 10:49:40

Chrom Revision: 2.3 30-Nov-2023 17:25:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X12.D

Injection Date: 11-Dec-2023 21:27:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: IC std1 0.2

Worklist Smp#: 13

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

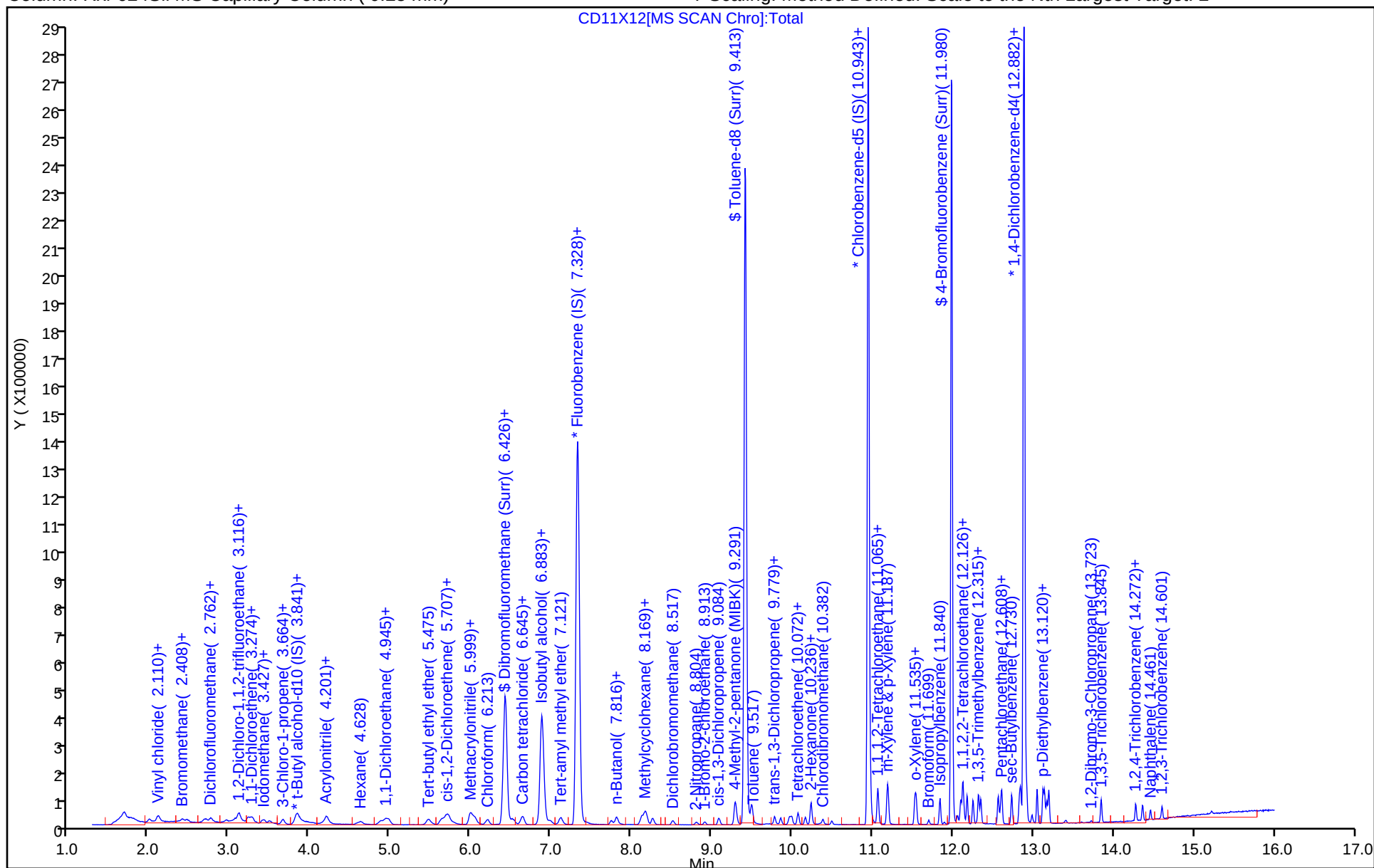
ALS Bottle#: 12

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

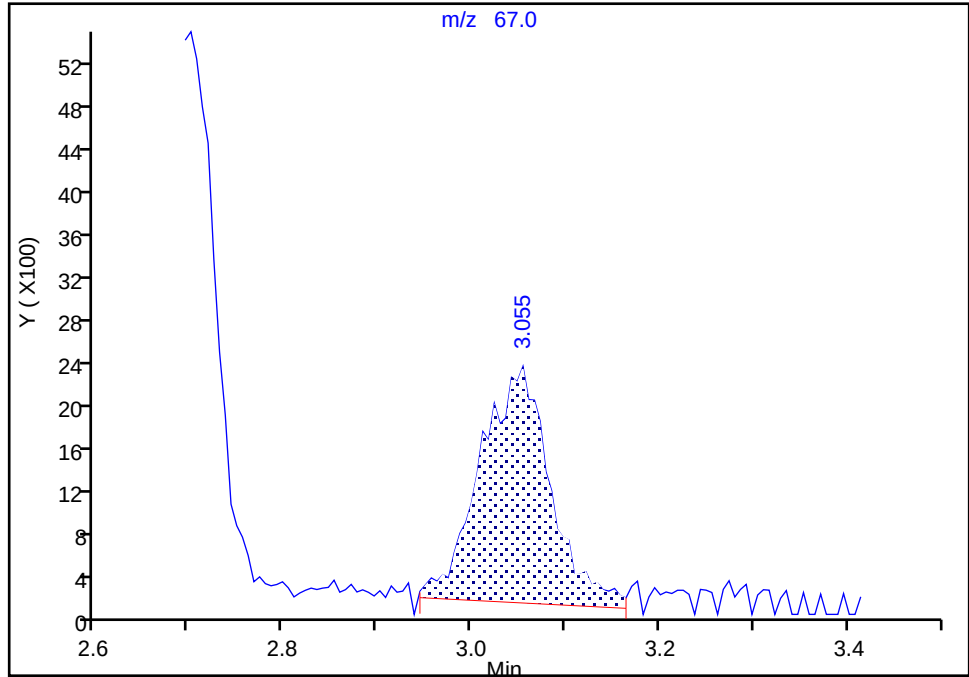
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Injection Date: 11-Dec-2023 21:27:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

16 1,2-Dichloro-1,1,2-trifluoroetha, CAS: 354-23-4

Signal: 1

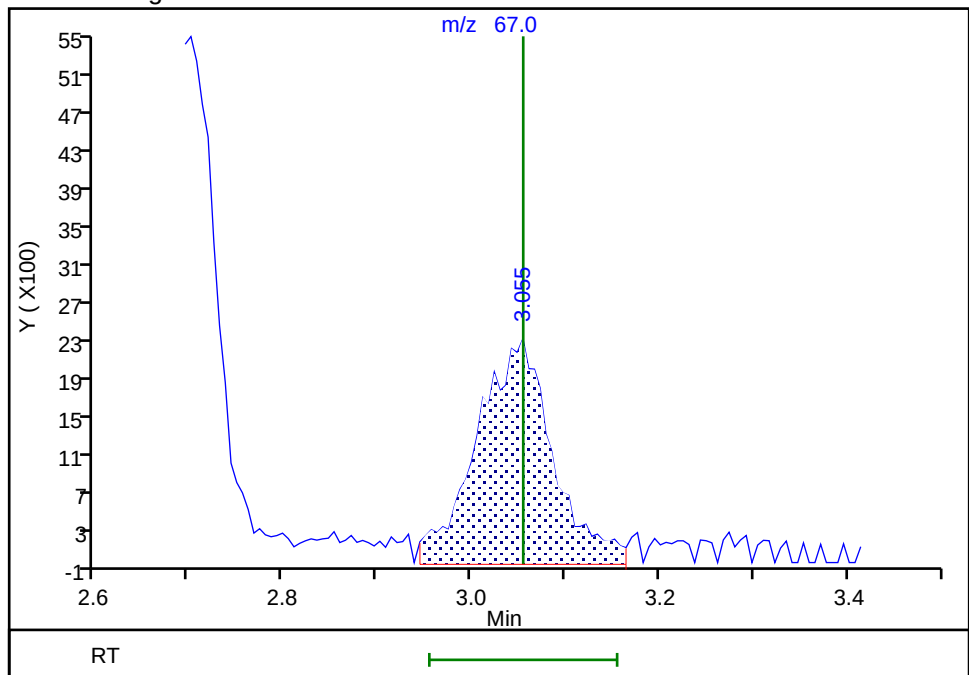
RT: 3.05
Area: 11511
Amount: 0.000019
Amount Units: ug/l

Processing Integration Results



RT: 3.05
Area: 12986
Amount: 0.202983
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 10:54:14 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

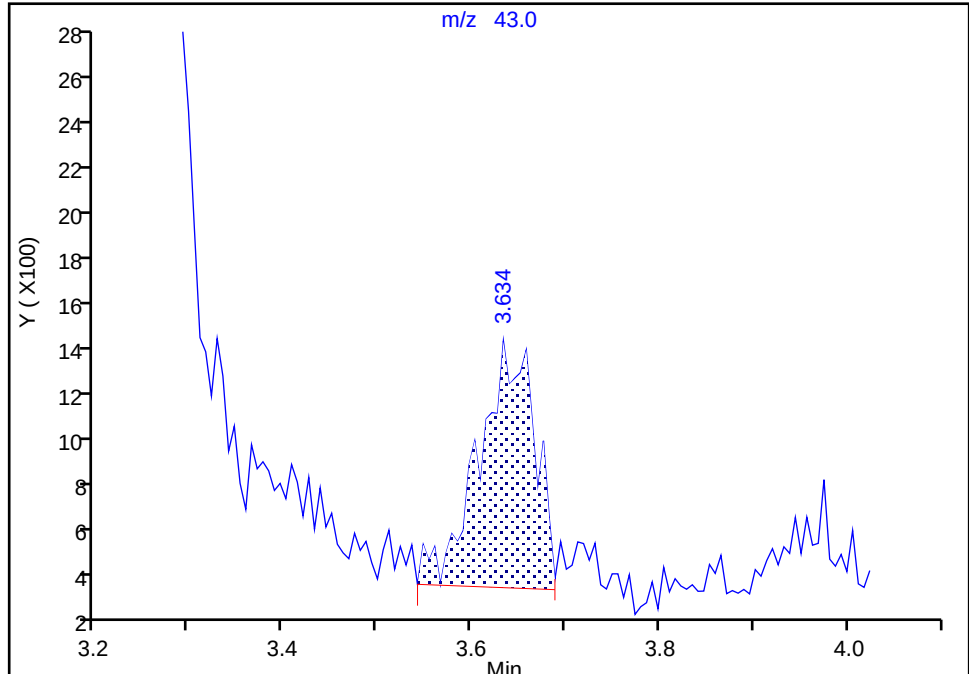
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Injection Date: 11-Dec-2023 21:27:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

26 Methyl acetate, CAS: 79-20-9

Signal: 1

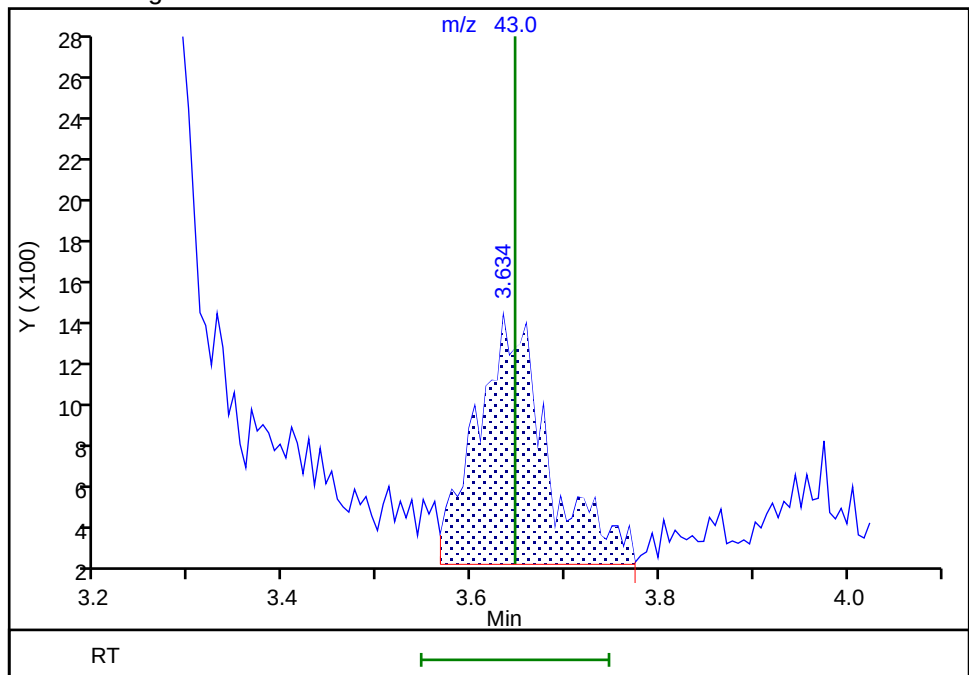
RT: 3.63
Area: 4392
Amount: 0.001211
Amount Units: ug/l

Processing Integration Results



RT: 3.63
Area: 6139
Amount: 0.240080
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 10:54:32 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

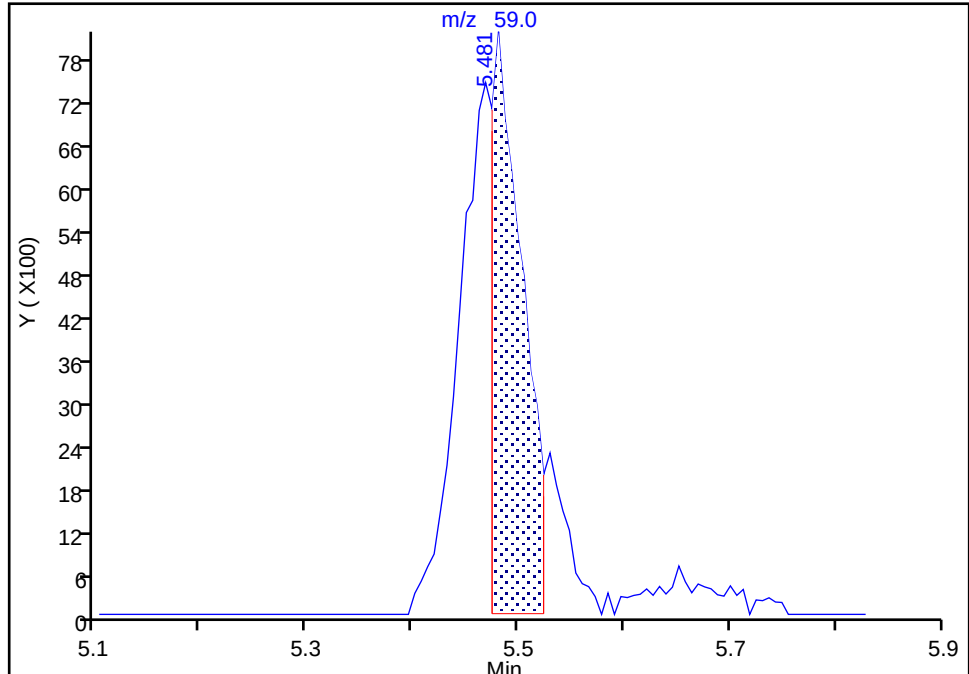
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Injection Date: 11-Dec-2023 21:27:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

41 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

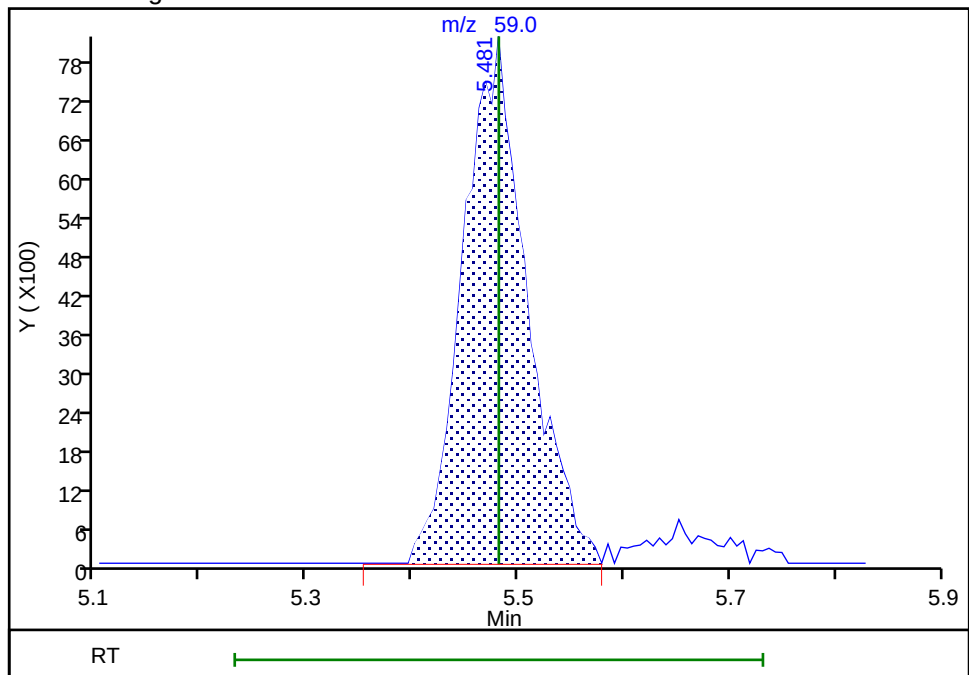
RT: 5.48
Area: 17004
Amount: 0.000163
Amount Units: ug/l

Processing Integration Results



RT: 5.48
Area: 34261
Amount: 0.193423
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 10:54:49 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

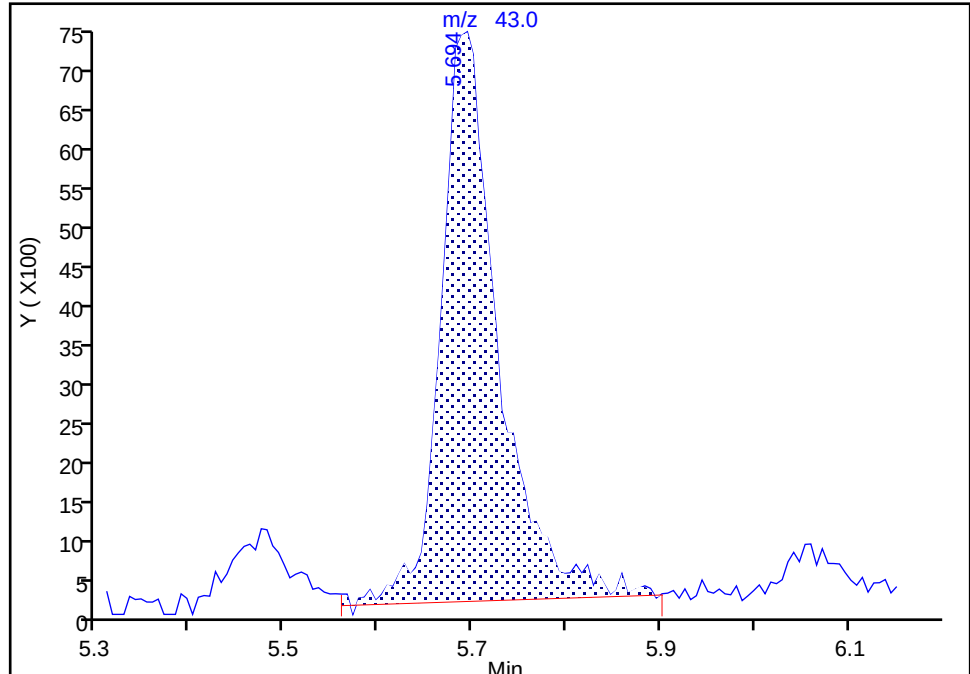
Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X12.D
Injection Date: 11-Dec-2023 21:27:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

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

Signal: 1

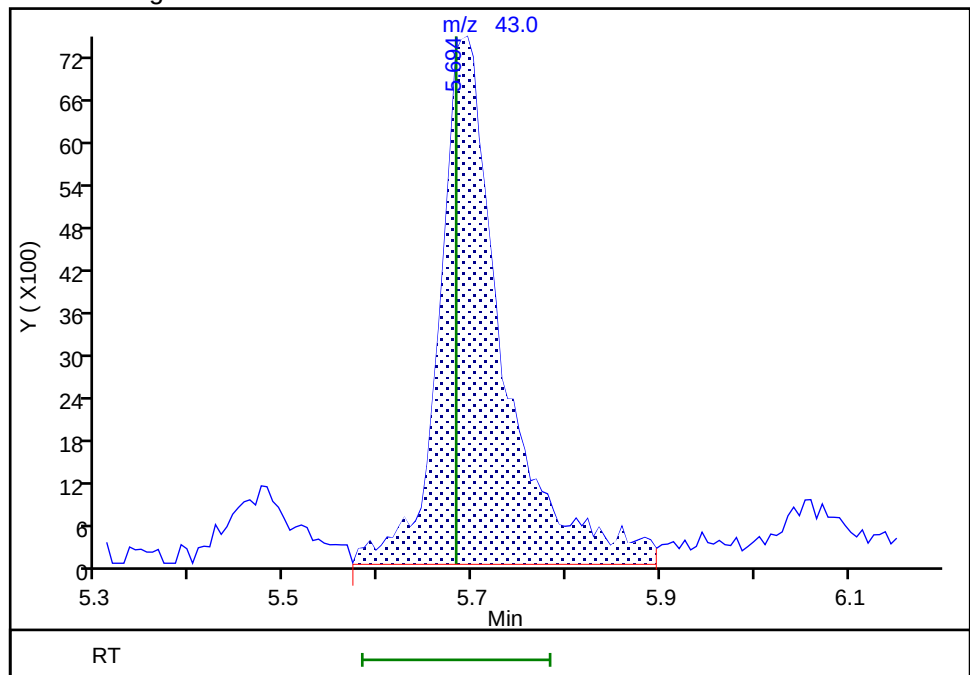
RT: 5.69
Area: 31227
Amount: 3.362160
Amount Units: ug/l

Processing Integration Results



RT: 5.69
Area: 34786
Amount: 2.163404
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 10:55:05 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

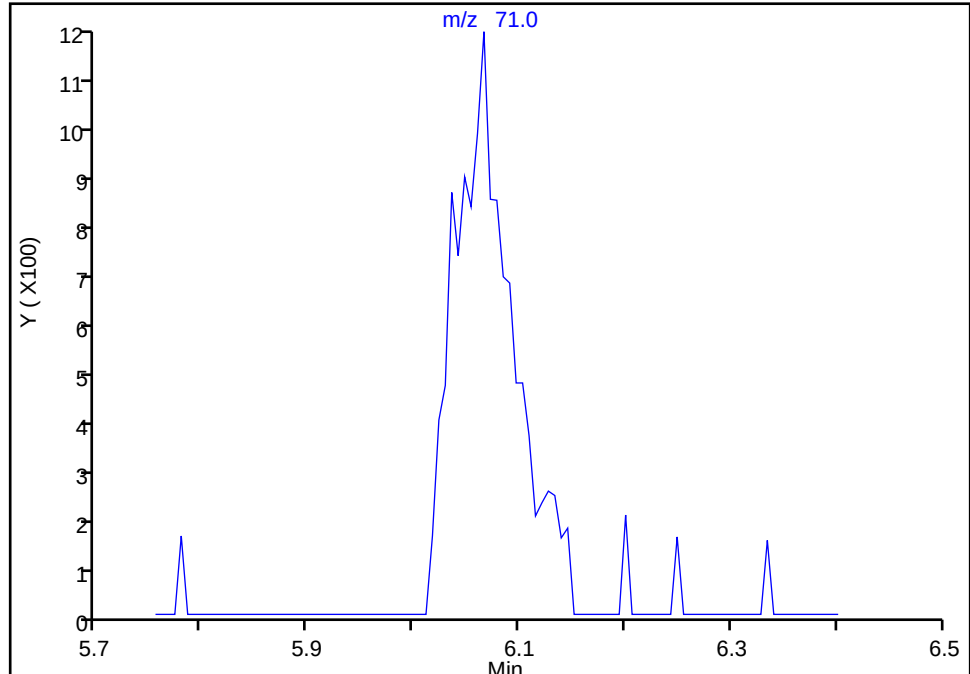
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Injection Date: 11-Dec-2023 21:27:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

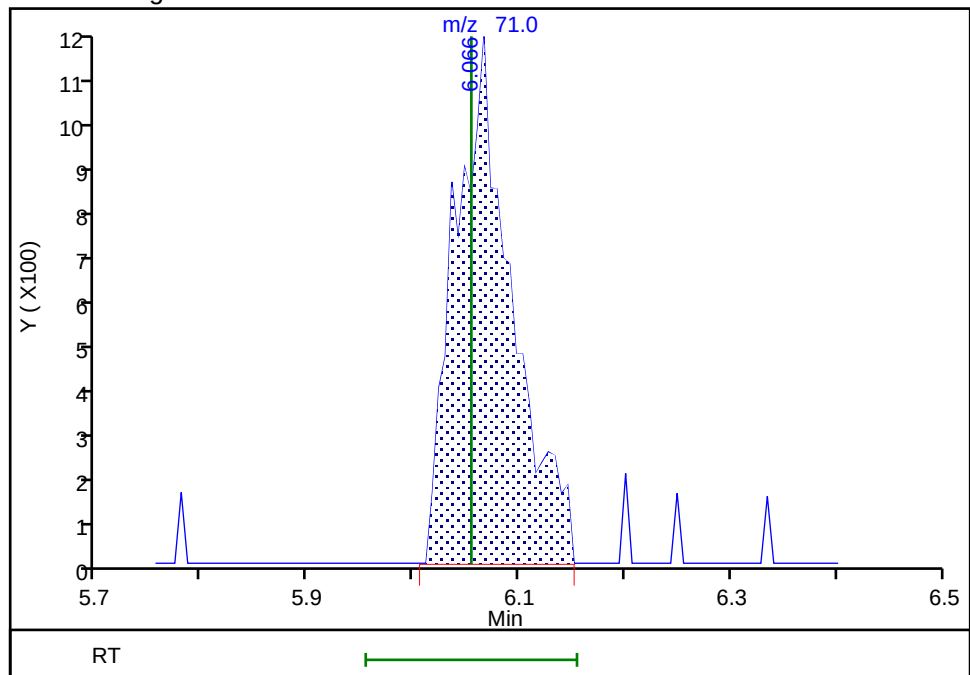
Not Detected
Expected RT: 6.05

Processing Integration Results



RT: 6.07
Area: 4464
Amount: 0.964781
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 12:43:03 -05:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

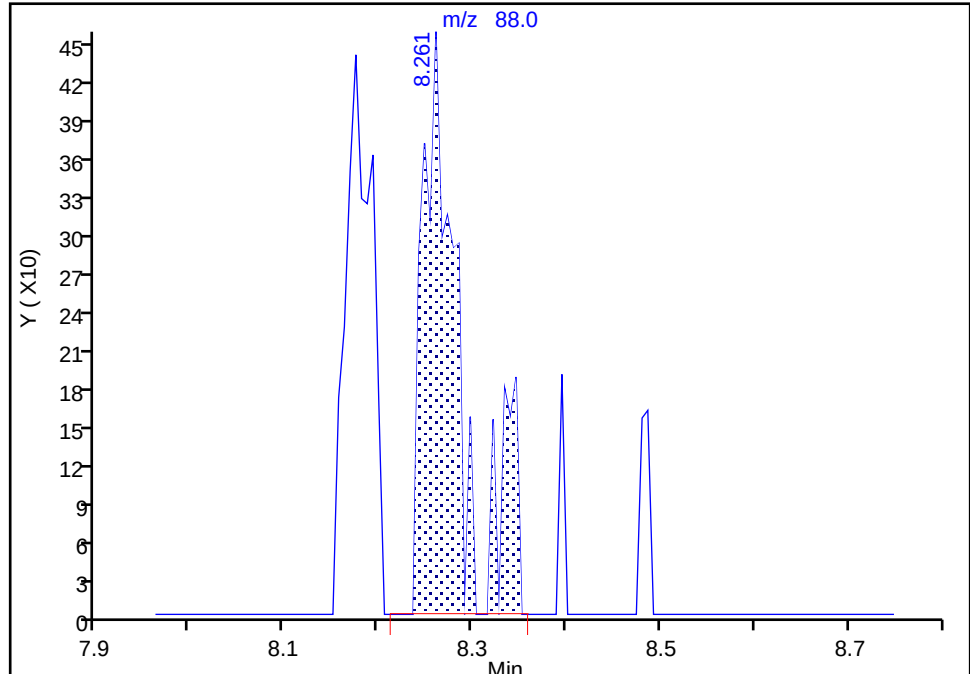
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Injection Date: 11-Dec-2023 21:27:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

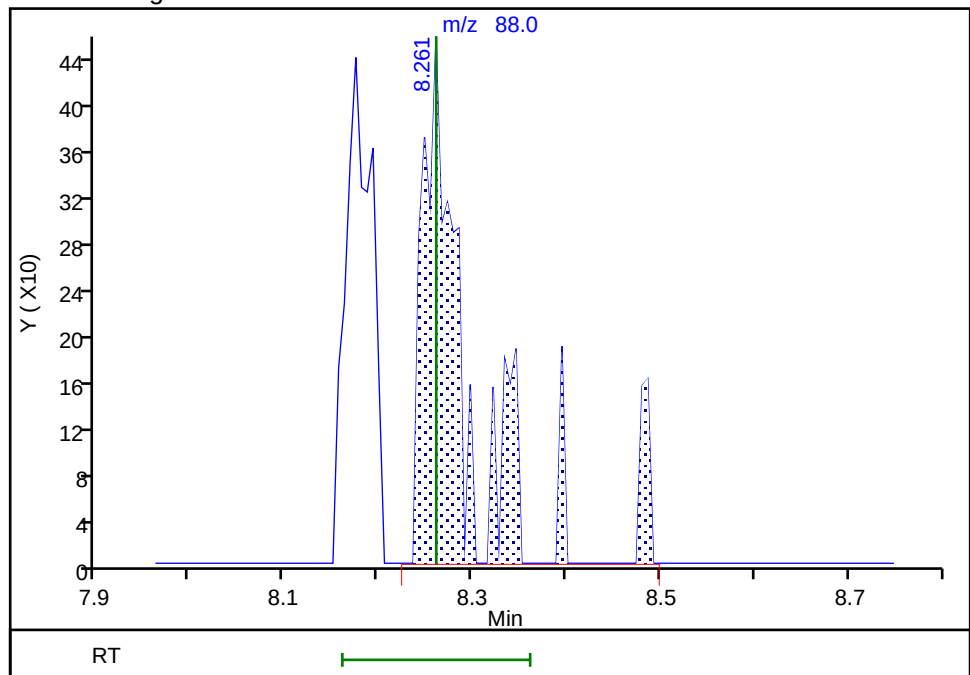
RT: 8.26
Area: 1243
Amount: 5.821398
Amount Units: ug/l

Processing Integration Results



RT: 8.26
Area: 1426
Amount: 7.055480
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 10:55:38 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X13.D
 Lims ID: IC std2 0.5
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 11-Dec-2023 21:50:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0101546-014
 Misc. Info.: IC STD2 0.5
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 14-Dec-2023 10:50:02 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1621

First Level Reviewer: DVW2

Date: 12-Dec-2023 11:01:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.830	1.817	0.013	99	33896	0.5000	0.5260	
5 Chloromethane	50	2.006	2.000	0.006	98	44113	0.5000	0.5465	
6 Vinyl chloride	62	2.110	2.110	0.000	97	38542	0.5000	0.5240	
7 Butadiene	39	2.110	2.110	0.000	95	35925	0.5000	0.4845	
9 Bromomethane	94	2.415	2.409	0.006	88	26497	0.5000	0.5221	
10 Chloroethane	64	2.482	2.470	0.012	100	20994	0.5000	0.5149	
11 Dichlorofluoromethane	67	2.707	2.701	0.006	96	57704	0.5000	0.5195	
12 Trichlorofluoromethane	101	2.774	2.762	0.012	94	41322	0.5000	0.5165	
13 Pentane	43	2.768	2.762	0.006	97	40918	0.5000	0.4828	
14 Ethyl ether	59	2.963	2.957	0.006	92	22196	0.5001	0.5094	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.067	3.055	0.012	93	33771	0.5000	0.5336	M
17 Acrolein	56	3.128	3.110	0.018	100	151097	25.0	23.8	
18 1,1-Dichloroethene	96	3.244	3.232	0.012	96	23600	0.5000	0.5222	
20 Acetone	43	3.280	3.268	0.012	99	37640	5.00	5.08	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.293	3.287	0.006	88	24203	0.5000	0.5091	
22 Iodomethane	142	3.415	3.409	0.007	100	48933	0.5000	0.5168	
24 Isopropyl alcohol	45	3.427	3.421	0.006	37	15693	10.0	9.50	
23 Ethyl bromide	108	3.445	3.433	0.012	99	21847	0.5001	0.5154	
25 Carbon disulfide	76	3.506	3.500	0.006	99	81023	0.5000	0.5146	
26 Methyl acetate	43	3.658	3.646	0.012	43	13298	0.5000	0.5302	
29 3-Chloro-1-propene	41	3.677	3.665	0.012	92	42464	0.5000	0.5014	
30 Methylene Chloride	84	3.841	3.829	0.012	92	28532	0.5000	0.5374	
* 31 t-Butyl alcohol-d10 (IS)	65	3.866	3.853	0.013	96	141435	50.0	50.0	
32 2-Methyl-2-propanol	59	3.963	3.969	-0.006	99	34769	10.0	10.9	
33 Acrylonitrile	53	4.171	4.152	0.019	96	15138	1.25	1.30	
35 trans-1,2-Dichloroethene	96	4.219	4.201	0.018	98	27339	0.5000	0.5079	
34 Methyl tert-butyl ether	73	4.213	4.207	0.006	90	73768	0.5000	0.5008	
36 Hexane	57	4.628	4.628	0.000	95	37001	0.5000	0.5078	
37 1,1-Dichloroethane	63	4.878	4.872	0.006	96	50939	0.5000	0.5161	
39 Isopropyl ether	45	4.939	4.933	0.006	94	93219	0.5000	0.5064	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.994	4.975	0.019	91	41191	0.5000	0.5068	
41 Tert-butyl ethyl ether	59	5.481	5.481	0.000	98	89434	0.5000	0.5104	
42 2-Butanone (MEK)	43	5.695	5.682	0.013	100	76267	5.00	4.84	
43 cis-1,2-Dichloroethene	96	5.725	5.719	0.006	82	31309	0.5000	0.5159	
44 2,2-Dichloropropane	77	5.731	5.731	0.000	67	43681	0.5000	0.5332	
45 Propionitrile	54	5.798	5.780	0.018	99	41281	10.0	10.4	
47 Methacrylonitrile	67	5.999	5.999	0.000	92	72512	5.00	4.82	
48 Chlorobromomethane	128	6.054	6.048	0.006	95	13510	0.5000	0.4966	
49 Tetrahydrofuran	71	6.060	6.054	0.006	78	11583	2.50	2.55	
S 52 1,2-Dichloroethene, Total	100				0			1.02	
50 Chloroform	83	6.213	6.213	0.000	93	53074	0.5000	0.5289	
\$ 54 Dibromofluoromethane (Surr)	113	6.432	6.426	0.006	94	450039	10.0	9.96	
53 1,1,1-Trichloroethane	97	6.432	6.432	0.000	40	43142	0.5000	0.5173	
55 Cyclohexane	56	6.530	6.530	0.000	91	46177	0.5000	0.5028	
56 Carbon tetrachloride	117	6.652	6.640	0.012	88	36444	0.5000	0.4964	
57 1,1-Dichloropropene	75	6.658	6.646	0.012	94	38158	0.5000	0.5101	
58 Isobutyl alcohol	41	6.853	6.841	0.012	93	27002	25.0	23.4	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.890	6.890	0.000	100	91735	10.0	10.0	
60 Benzene	78	6.914	6.914	0.000	92	117681	0.5000	0.5120	
61 1,2-Dichloroethane	62	6.993	6.987	0.006	97	32239	0.5000	0.5214	
64 Tert-amyl methyl ether	73	7.127	7.121	0.006	98	79144	0.5000	0.4968	
* 65 Fluorobenzene (IS)	96	7.335	7.335	0.000	99	2025434	10.0	10.0	
66 n-Heptane	43	7.347	7.347	0.000	92	39333	0.5000	0.5058	
67 n-Butanol	56	7.755	7.743	0.012	91	41308	43.8	42.3	
68 Trichloroethene	95	7.816	7.816	0.000	98	30455	0.5000	0.5125	
69 Methylcyclohexane	83	8.133	8.127	0.006	91	48454	0.5000	0.5027	
70 1,2-Dichloropropane	63	8.158	8.158	0.000	96	30419	0.5000	0.5092	
71 2-ethoxy-2-methyl butane	87	8.182	8.182	0.000	91	47816	0.5000	0.5012	
74 1,4-Dioxane	88	8.267	8.261	0.006	32	4579	25.0	23.1	M
73 Methyl methacrylate	69	8.261	8.261	0.000	87	15540	0.5000	0.5111	
72 Dibromomethane	93	8.267	8.267	0.000	86	14505	0.5000	0.4987	
76 Dichlorobromomethane	83	8.517	8.517	0.000	98	34512	0.5000	0.4974	
77 2-Nitropropane	41	8.816	8.810	0.006	97	19991	2.50	2.33	
78 1-Bromo-2-chloroethane	63	8.914	8.914	0.000	98	30979	0.5000	0.5060	
80 cis-1,3-Dichloropropene	75	9.090	9.090	0.000	95	43780	0.5000	0.4827	
82 4-Methyl-2-pentanone (MIBK)	43	9.291	9.292	-0.001	97	191964	5.00	4.88	
\$ 83 Toluene-d8 (Surr)	98	9.420	9.413	0.007	93	1989735	10.0	9.94	
84 Toluene	92	9.499	9.499	0.000	98	77332	0.5000	0.5080	
85 trans-1,3-Dichloropropene	75	9.785	9.779	0.006	93	38858	0.5000	0.4967	
86 Ethyl methacrylate	69	9.858	9.858	0.000	90	32398	0.5000	0.4971	
87 1,1,2-Trichloroethane	97	9.993	9.993	0.000	91	21717	0.5000	0.5023	
S 107 1,3-Dichloropropene, Total	100				0			0.9794	
88 Tetrachloroethene	166	10.078	10.072	0.006	97	35905	0.5000	0.5112	
89 1,3-Dichloropropane	76	10.163	10.163	0.000	92	38150	0.5000	0.5136	
106 2-Hexanone	43	10.236	10.230	0.006	97	142157	5.00	4.91	
108 Chlorodibromomethane	129	10.383	10.383	0.000	90	25629	0.5000	0.4859	
110 Ethylene Dibromide	107	10.492	10.492	0.000	97	22075	0.5000	0.5258	
* 111 Chlorobenzene-d5 (IS)	117	10.950	10.950	0.000	85	1583369	10.0	10.0	
112 1-Chlorohexane	91	10.968	10.968	0.000	97	44047	0.5000	0.5194	
113 Chlorobenzene	112	10.974	10.974	0.000	97	88677	0.5000	0.4987	
115 Ethylbenzene	91	11.066	11.066	0.000	98	150351	0.5000	0.5058	
114 1,1,1,2-Tetrachloroethane	131	11.059	11.066	-0.007	94	30486	0.5000	0.4961	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.187	11.187	0.000	97	118757	1.00	0.99	
S 117 Xylenes, Total	106				0			1.49	
118 o-Xylene	106	11.529	11.529	0.000	96	58968	0.5000	0.4952	
119 Styrene	104	11.547	11.541	0.006	95	95578	0.5000	0.4897	
120 Bromoform	173	11.700	11.700	0.000	96	15769	0.5000	0.4778	
121 Isopropylbenzene	105	11.840	11.840	0.000	95	142307	0.5000	0.5020	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	93	794297	10.0	9.88	
126 1,1,2,2-Tetrachloroethane	83	12.096	12.096	0.000	75	26675	0.5000	0.4997	
125 Bromobenzene	156	12.102	12.102	0.000	91	39626	0.5000	0.5024	
127 trans-1,4-Dichloro-2-butene	53	12.126	12.120	0.006	95	70234	5.00	4.87	
128 1,2,3-Trichloropropane	110	12.139	12.139	0.000	78	7660	0.5000	0.5272	
129 N-Propylbenzene	91	12.175	12.175	0.000	99	176705	0.5000	0.5069	
130 2-Chlorotoluene	126	12.248	12.248	0.000	97	38664	0.5000	0.5097	
131 1,3,5-Trimethylbenzene	105	12.321	12.321	0.000	94	130009	0.5000	0.5005	
132 4-Chlorotoluene	126	12.346	12.346	0.000	97	39945	0.5000	0.5025	
133 tert-Butylbenzene	134	12.565	12.565	0.000	93	30915	0.5000	0.5149	
134 Pentachloroethane	167	12.596	12.596	0.000	81	22261	0.5000	0.4826	
135 1,2,4-Trimethylbenzene	105	12.608	12.608	0.000	97	132518	0.5000	0.4957	
136 sec-Butylbenzene	105	12.730	12.730	0.000	94	166533	0.5000	0.5087	
137 1,3-Dichlorobenzene	146	12.827	12.827	0.000	98	80838	0.5000	0.5149	
138 4-Isopropyltoluene	119	12.840	12.846	-0.006	97	149167	0.5000	0.5047	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.882	0.000	94	920721	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.901	12.901	0.000	95	79885	0.5000	0.5016	
141 1,2,3-Trimethylbenzene	120	12.919	12.919	0.000	96	62447	0.5000	0.5086	
142 Benzyl chloride	126	12.986	12.986	0.000	99	9818	0.5000	0.4600	
145 p-Diethylbenzene	119	13.120	13.120	0.000	95	91037	0.5000	0.4984	
143 n-Butylbenzene	92	13.138	13.138	0.000	97	71415	0.5000	0.4993	
144 1,2-Dichlorobenzene	146	13.169	13.169	0.000	99	71186	0.5000	0.4967	
148 1,2-Dibromo-3-Chloropropane	155	13.724	13.717	0.007	87	3628	0.5000	0.4824	
149 1,3,5-Trichlorobenzene	180	13.845	13.845	0.000	97	58297	0.5000	0.5016	
150 1,2,4-Trichlorobenzene	180	14.278	14.272	0.006	94	42479	0.5000	0.4733	
151 Hexachlorobutadiene	225	14.358	14.364	-0.006	98	24515	0.5000	0.5092	
152 Naphthalene	128	14.461	14.455	0.006	97	62062	0.5000	0.4668	
153 1,2,3-Trichlorobenzene	180	14.601	14.601	0.000	96	30694	0.5000	0.4676	
154 2-Methylnaphthalene	142	15.217	15.217	0.000	92	12694	0.5000	0.3554	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00107	Amount Added: 2.00	Units: uL	
MSV_LL_#2_826_00117	Amount Added: 2.00	Units: uL	
MSV_LL_GAS826_00182	Amount Added: 2.00	Units: uL	
MSV_29_826ISS_00052	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 14-Dec-2023 10:50:03

Chrom Revision: 2.3 30-Nov-2023 17:25:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X13.D

Injection Date: 11-Dec-2023 21:50:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: IC std2 0.5

Worklist Smp#: 14

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

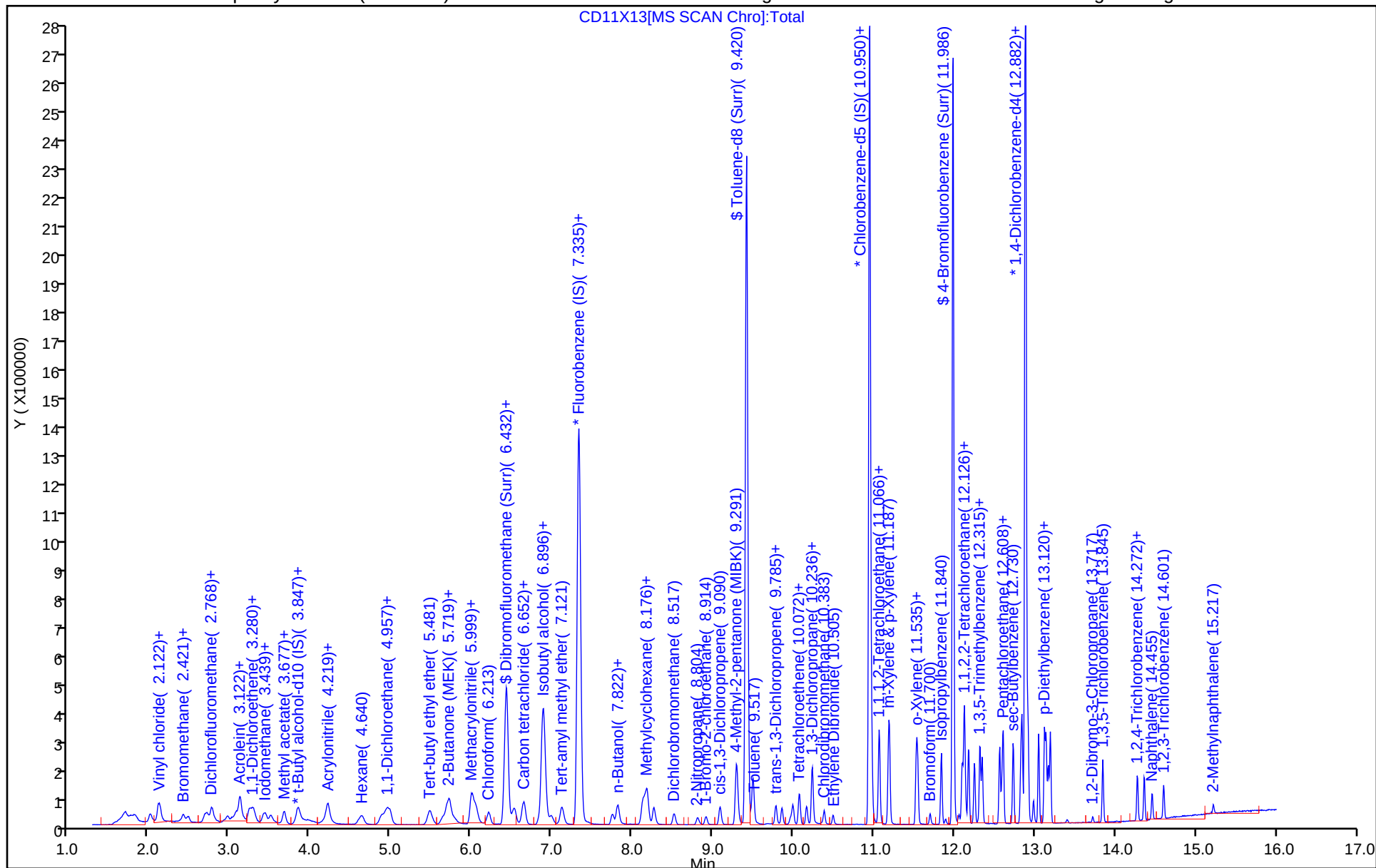
ALS Bottle#: 13

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

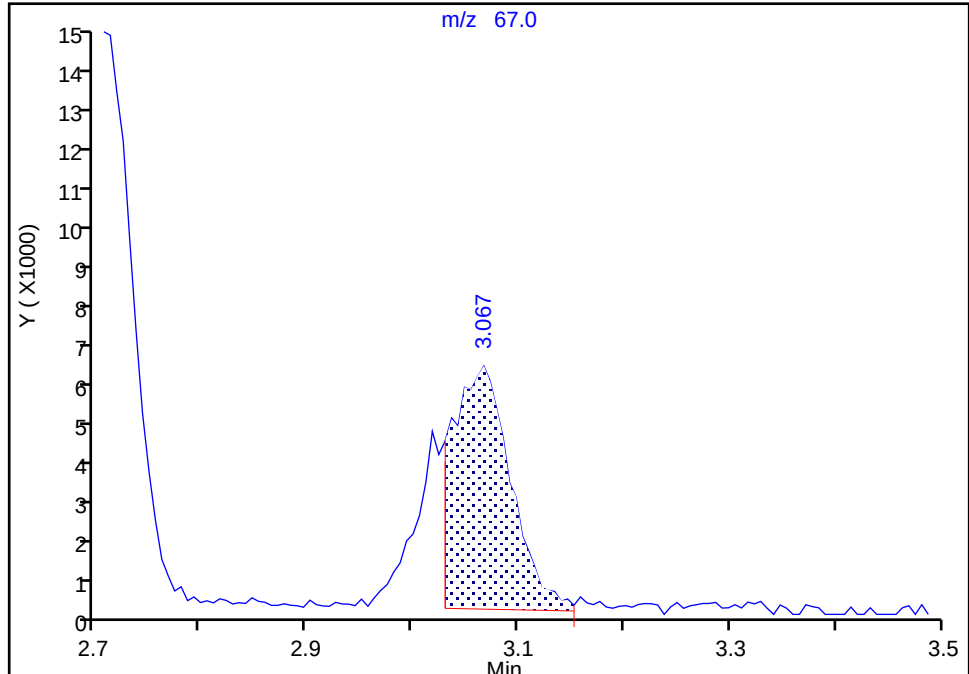
Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X13.D
Injection Date: 11-Dec-2023 21:50:30 Instrument ID: 10193
Lims ID: IC std2 0.5
Client ID:
Operator ID: gaw91131 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

16 1,2-Dichloro-1,1,2-trifluoroetha, CAS: 354-23-4

Signal: 1

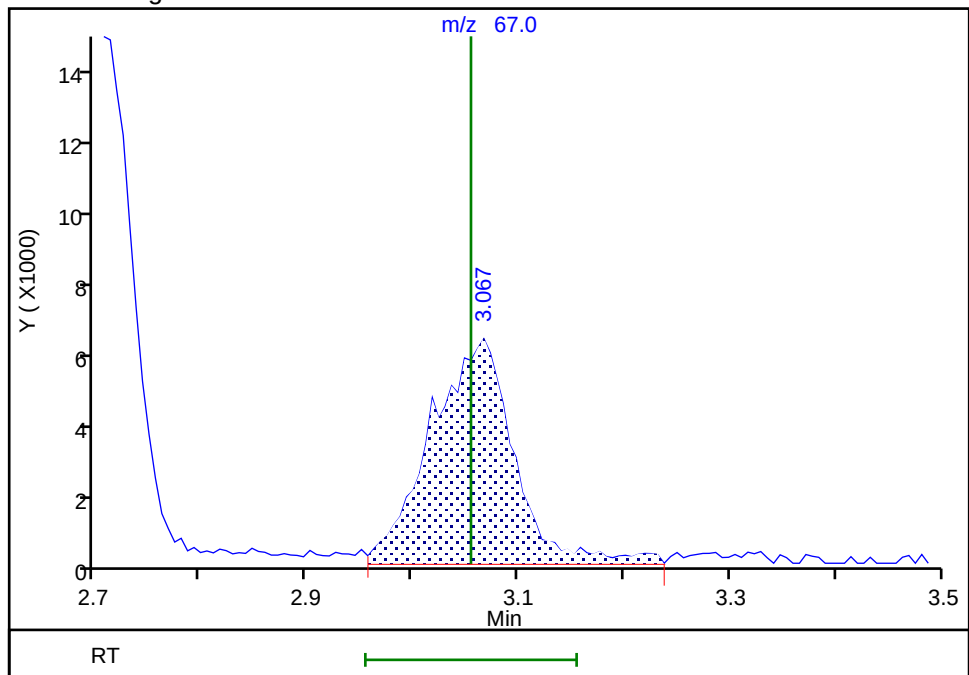
RT: 3.07
Area: 23239
Amount: 0.000047
Amount Units: ug/l

Processing Integration Results



RT: 3.07
Area: 33771
Amount: 0.533595
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 11:00:28 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

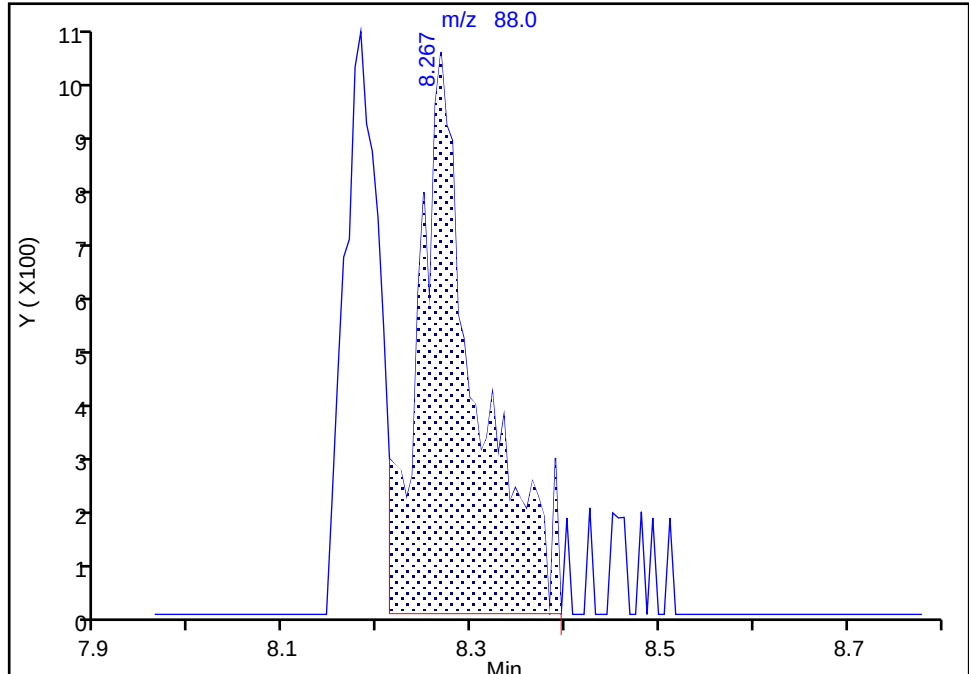
Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X13.D
Injection Date: 11-Dec-2023 21:50:30 Instrument ID: 10193
Lims ID: IC std2 0.5
Client ID:
Operator ID: gaw91131 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

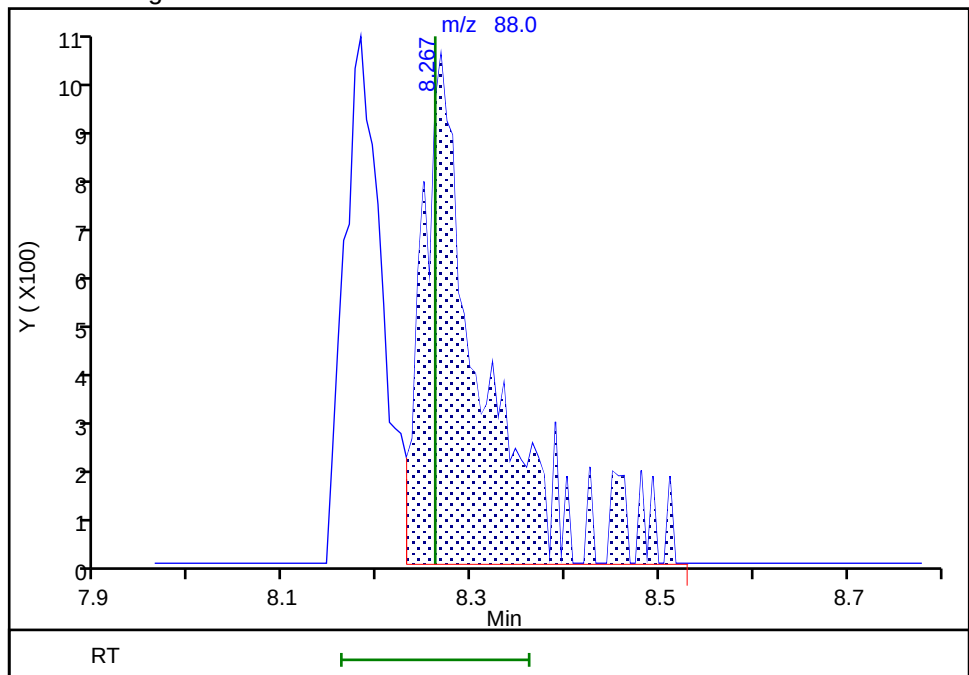
RT: 8.27
Area: 4354
Amount: 21.149470
Amount Units: ug/l

Processing Integration Results



RT: 8.27
Area: 4579
Amount: 23.099263
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 11:00:59 -05:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X14.D
 Lims ID: IC std3 1
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 11-Dec-2023 22:12:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0101546-015
 Misc. Info.: IC STD3 1
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 14-Dec-2023 10:50:09 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1621

First Level Reviewer: DVW2

Date: 12-Dec-2023 11:04:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.829	1.817	0.012	99	68565	1.00	1.05	
5 Chloromethane	50	2.012	2.000	0.012	99	87431	1.00	1.07	
6 Vinyl chloride	62	2.116	2.110	0.006	97	79907	1.00	1.08	
7 Butadiene	39	2.116	2.110	0.006	95	79847	1.00	1.07	
9 Bromomethane	94	2.421	2.409	0.012	91	55666	1.00	1.09	
10 Chloroethane	64	2.482	2.470	0.012	100	43549	1.00	1.06	
11 Dichlorofluoromethane	67	2.713	2.701	0.012	97	119240	1.00	1.06	
12 Trichlorofluoromethane	101	2.774	2.762	0.012	98	86592	1.00	1.07	
13 Pentane	43	2.774	2.762	0.012	96	86285	1.00	1.01	
14 Ethyl ether	59	2.963	2.957	0.006	93	45168	1.00	1.03	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.073	3.055	0.018	95	65532	1.00	1.03	
17 Acrolein	56	3.122	3.110	0.012	99	307405	50.0	50.0	
18 1,1-Dichloroethene	96	3.244	3.232	0.012	98	47400	1.00	1.04	
20 Acetone	43	3.274	3.268	0.006	100	68466	10.0	9.54	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.293	3.287	0.006	90	49956	1.00	1.04	
22 Iodomethane	142	3.414	3.409	0.006	98	98937	1.00	1.04	
24 Isopropyl alcohol	45	3.427	3.421	0.006	36	32754	20.0	20.5	
23 Ethyl bromide	108	3.445	3.433	0.012	98	45368	1.00	1.06	
25 Carbon disulfide	76	3.506	3.500	0.006	99	162355	1.00	1.02	
26 Methyl acetate	43	3.652	3.646	0.006	48	24098	1.00	0.99	
29 3-Chloro-1-propene	41	3.677	3.665	0.012	92	87747	1.00	1.03	
30 Methylene Chloride	84	3.847	3.829	0.018	92	54285	1.00	1.01	
* 31 t-Butyl alcohol-d10 (IS)	65	3.853	3.853	0.000	67	137066	50.0	50.0	
32 2-Methyl-2-propanol	59	3.981	3.969	0.012	99	65723	20.0	21.2	
33 Acrylonitrile	53	4.152	4.152	0.000	97	29859	2.50	2.65	
35 trans-1,2-Dichloroethene	96	4.219	4.201	0.018	98	56033	1.00	1.03	
34 Methyl tert-butyl ether	73	4.207	4.207	0.000	90	154163	1.00	1.04	
36 Hexane	57	4.640	4.628	0.012	94	72843	1.00	0.99	
37 1,1-Dichloroethane	63	4.878	4.872	0.006	96	103295	1.00	1.04	
39 Isopropyl ether	45	4.945	4.933	0.012	93	189104	1.00	1.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.987	4.975	0.012	88	84165	1.00	1.03	
41 Tert-butyl ethyl ether	59	5.481	5.481	0.000	98	179381	1.00	1.01	
42 2-Butanone (MEK)	43	5.688	5.682	0.006	100	155567	10.0	10.2	
43 cis-1,2-Dichloroethene	96	5.725	5.719	0.006	82	62757	1.00	1.02	
44 2,2-Dichloropropane	77	5.731	5.731	0.000	66	85511	1.00	1.03	
45 Propionitrile	54	5.798	5.780	0.018	98	81437	20.0	21.2	
47 Methacrylonitrile	67	6.005	5.999	0.006	91	152649	10.0	10.5	
48 Chlorobromomethane	128	6.054	6.048	0.006	90	27883	1.00	1.02	
49 Tetrahydrofuran	71	6.060	6.054	0.006	78	22992	5.00	5.23	
S 52 1,2-Dichloroethene, Total	100				0			2.06	
50 Chloroform	83	6.213	6.213	0.000	94	102212	1.00	1.01	
\$ 54 Dibromofluoromethane (Surr)	113	6.432	6.426	0.006	94	453124	10.0	9.94	
53 1,1,1-Trichloroethane	97	6.438	6.432	0.006	45	88101	1.00	1.05	
55 Cyclohexane	56	6.536	6.530	0.006	92	95410	1.00	1.03	
56 Carbon tetrachloride	117	6.652	6.640	0.012	86	76427	1.00	1.03	
57 1,1-Dichloropropene	75	6.646	6.646	0.000	95	78920	1.00	1.05	
58 Isobutyl alcohol	41	6.847	6.841	0.006	90	57674	50.0	51.6	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.889	6.890	-0.001	100	93174	10.0	10.1	
60 Benzene	78	6.920	6.914	0.006	94	240388	1.00	1.04	
61 1,2-Dichloroethane	62	6.993	6.987	0.006	97	62643	1.00	1.00	
64 Tert-amyl methyl ether	73	7.121	7.121	0.000	99	163740	1.00	1.02	
* 65 Fluorobenzene (IS)	96	7.334	7.335	-0.001	99	2044405	10.0	10.0	
66 n-Heptane	43	7.347	7.347	0.000	39	77071	1.00	0.9819	
67 n-Butanol	56	7.749	7.743	0.006	92	79548	87.5	84.1	
68 Trichloroethene	95	7.822	7.816	0.006	97	61311	1.00	1.02	
69 Methylcyclohexane	83	8.127	8.127	0.000	90	98410	1.00	1.01	
70 1,2-Dichloropropane	63	8.164	8.158	0.006	97	61262	1.00	1.02	
71 2-ethoxy-2-methyl butane	87	8.188	8.182	0.006	93	96952	1.00	1.01	
74 1,4-Dioxane	88	8.267	8.261	0.006	30	10608	50.0	55.2	M
73 Methyl methacrylate	69	8.267	8.261	0.006	91	30317	1.00	1.03	
72 Dibromomethane	93	8.267	8.267	0.000	87	30308	1.00	1.03	
76 Dichlorobromomethane	83	8.517	8.517	0.000	99	70024	1.00	1.00	
77 2-Nitropropane	41	8.810	8.810	0.000	98	42973	5.00	5.17	
78 1-Bromo-2-chloroethane	63	8.913	8.914	-0.001	98	62600	1.00	1.01	
80 cis-1,3-Dichloropropene	75	9.090	9.090	0.000	95	93280	1.00	1.02	
82 4-Methyl-2-pentanone (MIBK)	43	9.291	9.292	-0.001	97	393595	10.0	10.3	
\$ 83 Toluene-d8 (Surr)	98	9.419	9.413	0.006	93	1990550	10.0	9.90	
84 Toluene	92	9.499	9.499	0.000	97	157020	1.00	1.03	
85 trans-1,3-Dichloropropene	75	9.785	9.779	0.006	93	78355	1.00	1.00	
86 Ethyl methacrylate	69	9.858	9.858	0.000	89	65043	1.00	0.99	
87 1,1,2-Trichloroethane	97	9.992	9.993	-0.001	90	44309	1.00	1.02	
S 107 1,3-Dichloropropene, Total	100				0			2.02	
88 Tetrachloroethene	166	10.078	10.072	0.006	98	72369	1.00	1.03	
89 1,3-Dichloropropane	76	10.163	10.163	0.000	92	75490	1.00	1.01	
106 2-Hexanone	43	10.236	10.230	0.006	96	283929	10.0	10.1	
108 Chlorodibromomethane	129	10.383	10.383	0.000	90	53153	1.00	1.00	
110 Ethylene Dibromide	107	10.492	10.492	0.000	98	42601	1.00	1.01	
* 111 Chlorobenzene-d5 (IS)	117	10.950	10.950	0.000	85	1590219	10.0	10.0	
112 1-Chlorohexane	91	10.968	10.968	0.000	97	85097	1.00	1.00	
113 Chlorobenzene	112	10.974	10.974	0.000	97	185254	1.00	1.04	
115 Ethylbenzene	91	11.072	11.066	0.006	98	305197	1.00	1.02	
114 1,1,1,2-Tetrachloroethane	131	11.065	11.066	-0.001	95	61882	1.00	1.00	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.187	11.187	0.000	97	248649	2.00	2.07	
S 117 Xylenes, Total	106				0			3.10	
118 o-Xylene	106	11.529	11.529	0.000	95	123555	1.00	1.03	
119 Styrene	104	11.547	11.541	0.006	95	197298	1.00	1.01	
120 Bromoform	173	11.699	11.700	-0.001	97	32284	1.00	0.9740	
121 Isopropylbenzene	105	11.840	11.840	0.000	95	292782	1.00	1.03	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	93	803520	10.0	9.95	
126 1,1,2,2-Tetrachloroethane	83	12.096	12.096	0.000	84	55267	1.00	1.03	
125 Bromobenzene	156	12.102	12.102	0.000	91	83345	1.00	1.05	
127 trans-1,4-Dichloro-2-butene	53	12.120	12.120	0.000	94	147630	10.0	10.2	
128 1,2,3-Trichloropropane	110	12.144	12.139	0.006	82	14899	1.00	1.02	
129 N-Propylbenzene	91	12.175	12.175	0.000	99	366788	1.00	1.04	
130 2-Chlorotoluene	126	12.248	12.248	0.000	97	79931	1.00	1.05	
131 1,3,5-Trimethylbenzene	105	12.315	12.321	-0.006	96	271334	1.00	1.04	
132 4-Chlorotoluene	126	12.346	12.346	0.000	97	83510	1.00	1.04	
133 tert-Butylbenzene	134	12.565	12.565	0.000	93	63551	1.00	1.05	
134 Pentachloroethane	167	12.596	12.596	0.000	91	46792	1.00	1.01	
135 1,2,4-Trimethylbenzene	105	12.608	12.608	0.000	97	280066	1.00	1.04	
136 sec-Butylbenzene	105	12.730	12.730	0.000	94	343532	1.00	1.04	
137 1,3-Dichlorobenzene	146	12.827	12.827	0.000	98	165270	1.00	1.04	
138 4-Isopropyltoluene	119	12.846	12.846	0.000	97	311071	1.00	1.04	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.882	0.000	94	928387	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.900	12.901	-0.001	95	164377	1.00	1.02	
141 1,2,3-Trimethylbenzene	120	12.919	12.919	0.000	97	126980	1.00	1.03	
142 Benzyl chloride	126	12.986	12.986	0.000	99	21507	1.00	1.00	
145 p-Diethylbenzene	119	13.120	13.120	0.000	94	192857	1.00	1.05	
143 n-Butylbenzene	92	13.138	13.138	0.000	97	151491	1.00	1.05	
144 1,2-Dichlorobenzene	146	13.169	13.169	0.000	99	150731	1.00	1.04	
148 1,2-Dibromo-3-Chloropropane	155	13.723	13.717	0.006	87	7374	1.00	0.9724	
149 1,3,5-Trichlorobenzene	180	13.845	13.845	0.000	98	122874	1.00	1.05	
150 1,2,4-Trichlorobenzene	180	14.278	14.272	0.006	94	92333	1.00	1.02	
151 Hexachlorobutadiene	225	14.364	14.364	0.000	97	51303	1.00	1.06	
152 Naphthalene	128	14.455	14.455	0.000	97	131132	1.00	0.9782	
153 1,2,3-Trichlorobenzene	180	14.601	14.601	0.000	96	64925	1.00	0.9810	
154 2-Methylnaphthalene	142	15.217	15.217	0.000	93	27567	1.00	0.7655	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00107

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00117

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00182

Amount Added: 2.00

Units: uL

MSV_29_826ISS_00052

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 14-Dec-2023 10:50:10

Chrom Revision: 2.3 30-Nov-2023 17:25:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X14.D

Injection Date: 11-Dec-2023 22:12:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: IC std3 1

Worklist Smp#: 15

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

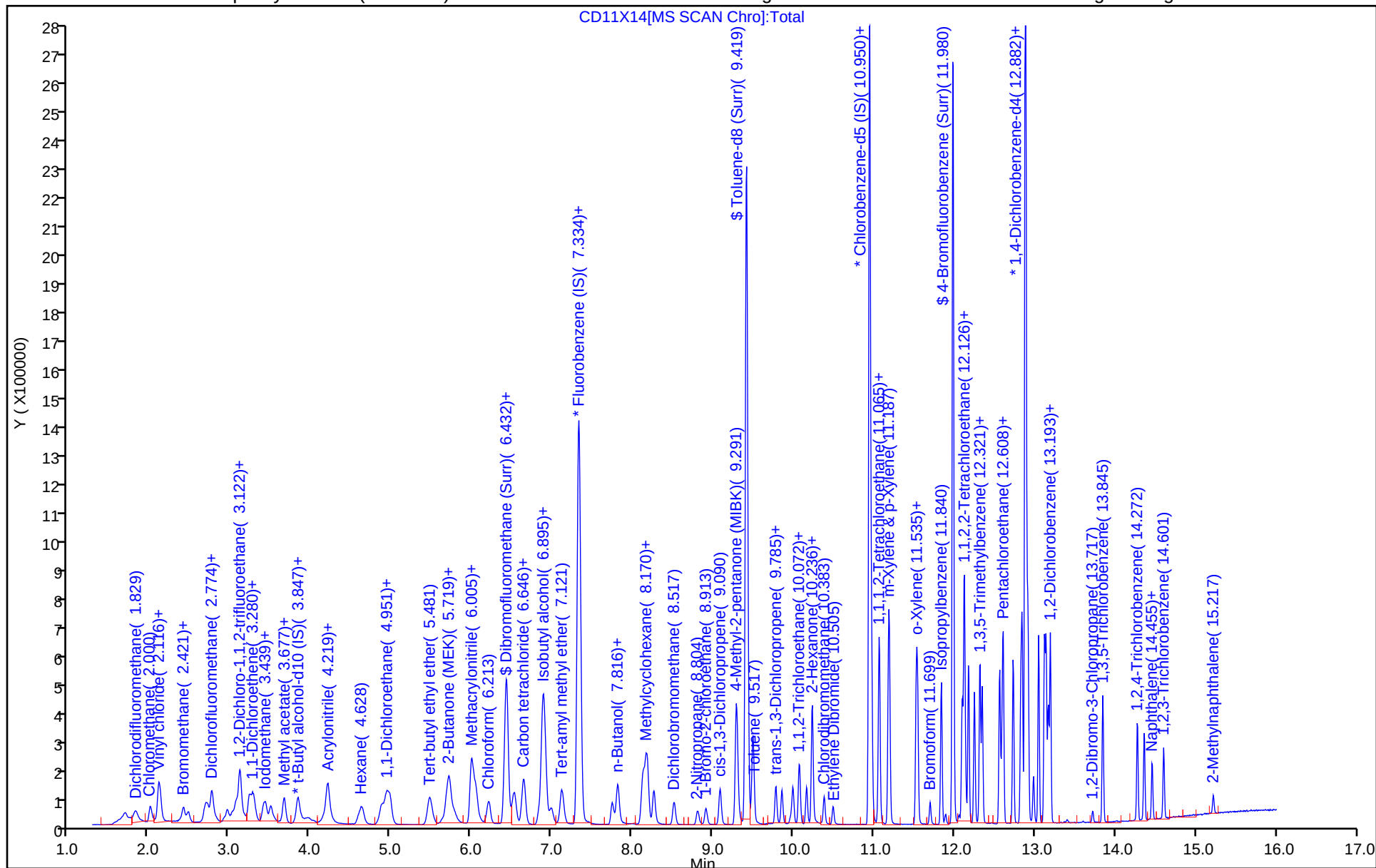
ALS Bottle#: 14

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

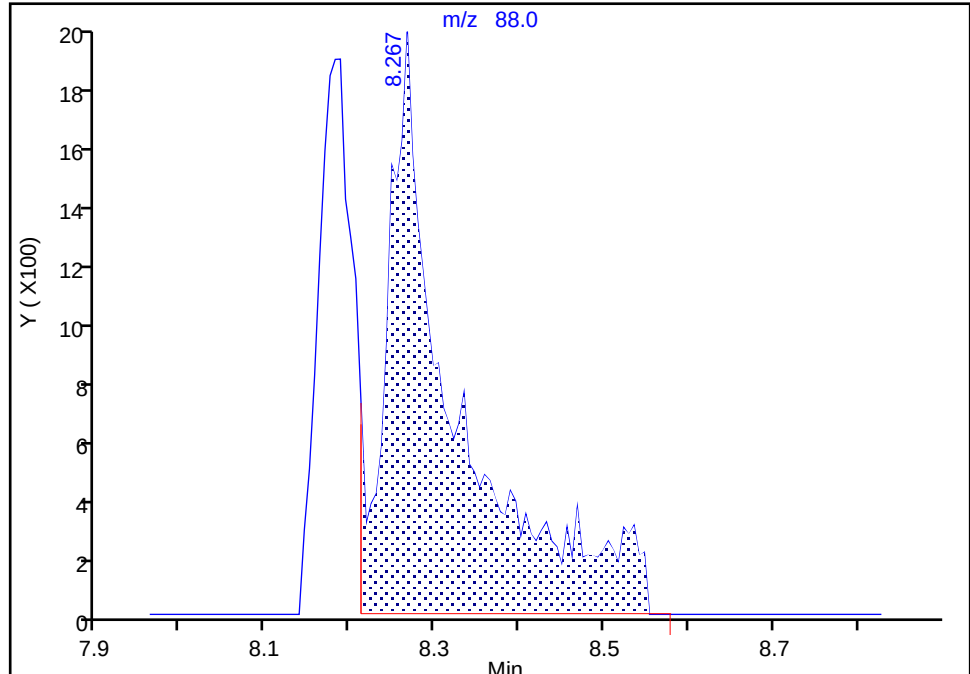
Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X14.D
Injection Date: 11-Dec-2023 22:12:30 Instrument ID: 10193
Lims ID: IC std3 1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

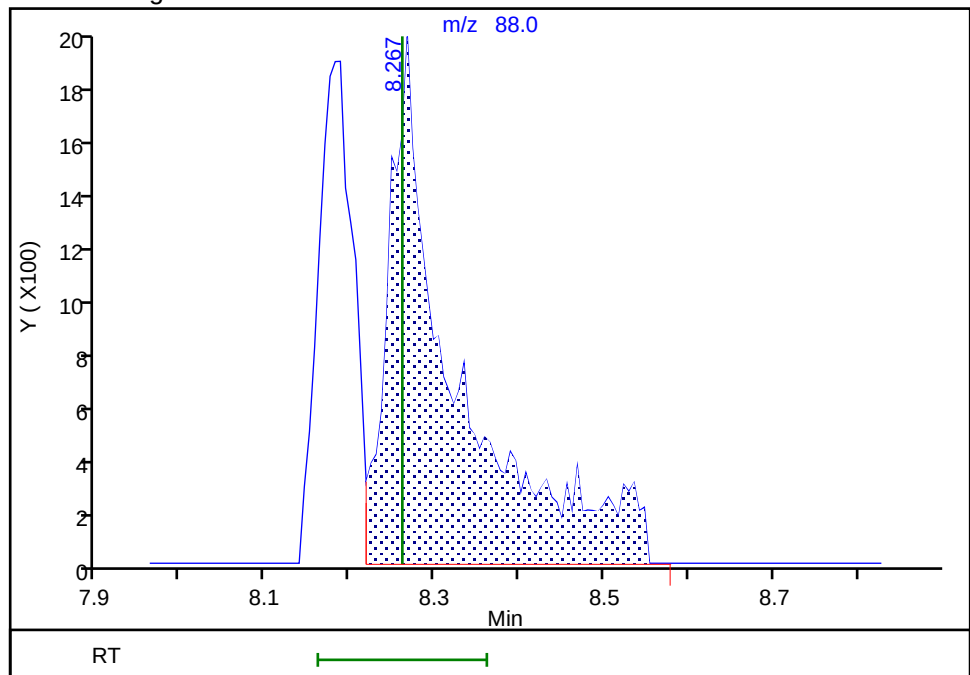
RT: 8.27
Area: 10867
Amount: 54.483687
Amount Units: ug/l

Processing Integration Results



RT: 8.27
Area: 10608
Amount: 55.218950
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 11:03:19 -05:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X15.D
 Lims ID: IC std4 2
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 11-Dec-2023 22:34:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0101546-016
 Misc. Info.: IC STD4 2
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 14-Dec-2023 10:50:16 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1621

First Level Reviewer: DVW2

Date: 12-Dec-2023 11:05:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.823	1.817	0.006	99	136701	2.00	2.11	
5 Chloromethane	50	2.006	2.000	0.006	99	172697	2.00	2.13	
6 Vinyl chloride	62	2.116	2.110	0.006	98	156221	2.00	2.12	
7 Butadiene	39	2.116	2.110	0.006	94	152957	2.00	2.06	
9 Bromomethane	94	2.421	2.409	0.012	90	108802	2.00	2.14	
10 Chloroethane	64	2.476	2.470	0.006	100	88044	2.00	2.15	
11 Dichlorofluoromethane	67	2.707	2.701	0.006	97	238929	2.00	2.14	
12 Trichlorofluoromethane	101	2.774	2.762	0.012	97	168904	2.00	2.10	
13 Pentane	43	2.774	2.762	0.012	97	170294	2.00	2.00	
14 Ethyl ether	59	2.963	2.957	0.006	92	90003	2.00	2.06	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.061	3.055	0.006	93	130171	2.00	2.05	
17 Acrolein	56	3.122	3.110	0.012	99	622579	100.0	102.6	
18 1,1-Dichloroethene	96	3.238	3.232	0.006	97	90157	2.00	1.99	
20 Acetone	43	3.274	3.268	0.006	100	157398	20.0	22.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.293	3.287	0.006	91	99193	2.00	2.08	
22 Iodomethane	142	3.414	3.409	0.006	98	193131	2.00	2.03	
24 Isopropyl alcohol	45	3.427	3.421	0.006	41	59734	40.0	37.8	
23 Ethyl bromide	108	3.445	3.433	0.012	98	86812	2.00	2.04	
25 Carbon disulfide	76	3.506	3.500	0.006	100	313014	2.00	1.98	
26 Methyl acetate	43	3.652	3.646	0.006	98	47546	2.00	1.98	
29 3-Chloro-1-propene	41	3.671	3.665	0.006	92	171432	2.00	2.02	
30 Methylene Chloride	84	3.835	3.829	0.006	94	107784	2.00	2.02	
* 31 t-Butyl alcohol-d10 (IS)	65	3.860	3.853	0.007	96	135361	50.0	50.0	
32 2-Methyl-2-propanol	59	3.963	3.969	-0.006	99	121642	40.0	39.7	
33 Acrylonitrile	53	4.158	4.152	0.006	100	59396	5.00	5.33	
35 trans-1,2-Dichloroethene	96	4.213	4.201	0.012	99	110463	2.00	2.05	
34 Methyl tert-butyl ether	73	4.207	4.207	0.000	90	303894	2.00	2.06	
36 Hexane	57	4.634	4.628	0.006	94	148734	2.00	2.03	
37 1,1-Dichloroethane	63	4.872	4.872	0.000	96	201377	2.00	2.03	
39 Isopropyl ether	45	4.939	4.933	0.006	94	377080	2.00	2.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.987	4.975	0.012	90	162205	2.00	1.99	
41 Tert-butyl ethyl ether	59	5.487	5.481	0.006	98	359403	2.00	2.04	
42 2-Butanone (MEK)	43	5.688	5.682	0.006	100	312175	20.0	20.7	
43 cis-1,2-Dichloroethene	96	5.725	5.719	0.006	82	124100	2.00	2.04	
44 2,2-Dichloropropane	77	5.737	5.731	0.006	87	164598	2.00	2.00	
45 Propionitrile	54	5.786	5.780	0.006	100	154424	40.0	40.6	
47 Methacrylonitrile	67	5.999	5.999	0.000	92	307739	20.0	21.4	
48 Chlorobromomethane	128	6.048	6.048	0.000	94	56405	2.00	2.07	
49 Tetrahydrofuran	71	6.060	6.054	0.006	77	46684	10.0	10.7	
S 52 1,2-Dichloroethene, Total	100				0			4.08	
50 Chloroform	83	6.213	6.213	0.000	94	196191	2.00	1.95	
\$ 54 Dibromofluoromethane (Surr)	113	6.432	6.426	0.006	94	453645	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.438	6.432	0.006	62	166904	2.00	2.00	
55 Cyclohexane	56	6.530	6.530	0.000	91	185183	2.00	2.01	
56 Carbon tetrachloride	117	6.646	6.640	0.006	87	146096	2.00	1.98	
57 1,1-Dichloropropene	75	6.646	6.646	0.000	95	149342	2.00	1.99	
58 Isobutyl alcohol	41	6.841	6.841	0.000	93	111391	100.0	101.0	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.889	6.890	-0.001	99	91681	10.0	10.0	
60 Benzene	78	6.920	6.914	0.006	96	461688	2.00	2.00	
61 1,2-Dichloroethane	62	6.993	6.987	0.006	97	125412	2.00	2.02	
64 Tert-amyl methyl ether	73	7.121	7.121	0.000	98	328386	2.00	2.05	
* 65 Fluorobenzene (IS)	96	7.328	7.335	-0.007	99	2031703	10.0	10.0	
66 n-Heptane	43	7.353	7.347	0.006	92	156416	2.00	2.01	
67 n-Butanol	56	7.749	7.743	0.006	91	178332	175.0	190.9	
68 Trichloroethene	95	7.816	7.816	0.000	97	120689	2.00	2.02	
69 Methylcyclohexane	83	8.127	8.127	0.000	90	193533	2.00	2.00	
70 1,2-Dichloropropane	63	8.157	8.158	-0.001	97	121957	2.00	2.04	
71 2-ethoxy-2-methyl butane	87	8.182	8.182	0.000	93	197767	2.00	2.07	
74 1,4-Dioxane	88	8.255	8.261	-0.006	33	18382	100.0	96.9	M
73 Methyl methacrylate	69	8.261	8.261	0.000	91	60595	2.00	2.08	
72 Dibromomethane	93	8.267	8.267	0.000	89	60634	2.00	2.08	
76 Dichlorobromomethane	83	8.517	8.517	0.000	99	140806	2.00	2.02	
77 2-Nitropropane	41	8.810	8.810	0.000	99	83476	10.0	10.2	
78 1-Bromo-2-chloroethane	63	8.913	8.914	-0.001	99	129220	2.00	2.10	
80 cis-1,3-Dichloropropene	75	9.090	9.090	0.000	95	184348	2.00	2.03	
82 4-Methyl-2-pentanone (MIBK)	43	9.291	9.292	-0.001	97	796870	20.0	21.2	
\$ 83 Toluene-d8 (Surr)	98	9.419	9.413	0.006	94	2012517	10.0	10.1	
84 Toluene	92	9.499	9.499	0.000	98	307852	2.00	2.02	
85 trans-1,3-Dichloropropene	75	9.779	9.779	0.000	93	158384	2.00	2.02	
86 Ethyl methacrylate	69	9.858	9.858	0.000	90	131876	2.00	2.02	
87 1,1,2-Trichloroethane	97	9.992	9.993	-0.001	90	88200	2.00	2.04	
S 107 1,3-Dichloropropene, Total	100				0			4.05	
88 Tetrachloroethene	166	10.072	10.072	0.000	98	141485	2.00	2.01	
89 1,3-Dichloropropane	76	10.163	10.163	0.000	91	151691	2.00	2.04	
106 2-Hexanone	43	10.236	10.230	0.006	96	588017	20.0	21.2	
108 Chlorodibromomethane	129	10.383	10.383	0.000	90	106587	2.00	2.02	
110 Ethylene Dibromide	107	10.492	10.492	0.000	99	84298	2.00	2.01	
* 111 Chlorobenzene-d5 (IS)	117	10.950	10.950	0.000	85	1583289	10.0	10.0	
112 1-Chlorohexane	91	10.968	10.968	0.000	99	164515	2.00	1.94	
113 Chlorobenzene	112	10.974	10.974	0.000	96	363186	2.00	2.04	
115 Ethylbenzene	91	11.065	11.066	-0.001	98	601320	2.00	2.02	
114 1,1,1,2-Tetrachloroethane	131	11.059	11.066	-0.007	96	124769	2.00	2.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.187	11.187	0.000	97	483916	4.00	4.05	
S 117 Xylenes, Total	106				0			6.08	
118 o-Xylene	106	11.529	11.529	0.000	96	242100	2.00	2.03	
119 Styrene	104	11.541	11.541	0.000	95	400648	2.00	2.05	
120 Bromoform	173	11.699	11.700	-0.001	97	66548	2.00	2.02	
121 Isopropylbenzene	105	11.840	11.840	0.000	95	575778	2.00	2.03	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	93	800096	10.0	9.95	
126 1,1,2,2-Tetrachloroethane	83	12.096	12.096	0.000	81	111086	2.00	2.08	
125 Bromobenzene	156	12.102	12.102	0.000	90	163952	2.00	2.08	
127 trans-1,4-Dichloro-2-butene	53	12.120	12.120	0.000	95	299683	20.0	20.8	
128 1,2,3-Trichloropropane	110	12.138	12.139	0.000	79	29701	2.00	2.05	
129 N-Propylbenzene	91	12.175	12.175	0.000	99	711230	2.00	2.04	
130 2-Chlorotoluene	126	12.248	12.248	0.000	97	154865	2.00	2.04	
131 1,3,5-Trimethylbenzene	105	12.315	12.321	-0.006	93	531756	2.00	2.05	
132 4-Chlorotoluene	126	12.346	12.346	0.000	97	163376	2.00	2.06	
133 tert-Butylbenzene	134	12.565	12.565	0.000	93	124693	2.00	2.08	
134 Pentachloroethane	167	12.596	12.596	0.000	89	96474	2.00	2.09	
135 1,2,4-Trimethylbenzene	105	12.608	12.608	0.000	97	551654	2.00	2.07	
136 sec-Butylbenzene	105	12.730	12.730	0.000	94	668614	2.00	2.05	
137 1,3-Dichlorobenzene	146	12.827	12.827	0.000	98	320367	2.00	2.04	
138 4-Isopropyltoluene	119	12.846	12.846	0.000	97	603870	2.00	2.05	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.882	0.000	94	919328	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.900	12.901	-0.001	96	328133	2.00	2.06	
141 1,2,3-Trimethylbenzene	120	12.919	12.919	0.000	98	250783	2.00	2.05	
142 Benzyl chloride	126	12.986	12.986	0.000	98	44022	2.00	2.07	
145 p-Diethylbenzene	119	13.120	13.120	0.000	94	372299	2.00	2.04	
143 n-Butylbenzene	92	13.138	13.138	0.000	97	293574	2.00	2.06	
144 1,2-Dichlorobenzene	146	13.169	13.169	0.000	99	293562	2.00	2.05	
148 1,2-Dibromo-3-Chloropropane	155	13.723	13.717	0.006	86	14509	2.00	1.93	
149 1,3,5-Trichlorobenzene	180	13.845	13.845	0.000	98	238093	2.00	2.05	
150 1,2,4-Trichlorobenzene	180	14.272	14.272	0.000	94	181190	2.00	2.02	
151 Hexachlorobutadiene	225	14.364	14.364	0.000	97	99437	2.00	2.07	
152 Naphthalene	128	14.461	14.455	0.006	97	266032	2.00	2.00	
153 1,2,3-Trichlorobenzene	180	14.601	14.601	0.000	96	131691	2.00	2.01	
154 2-Methylnaphthalene	142	15.217	15.217	0.000	92	63243	2.00	1.77	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00107

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00117

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00182

Amount Added: 2.00

Units: uL

MSV_29_826ISS_00052

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 14-Dec-2023 10:50:16

Chrom Revision: 2.3 30-Nov-2023 17:25:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X15.D

Injection Date: 11-Dec-2023 22:34:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: IC std4 2

Worklist Smp#: 16

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

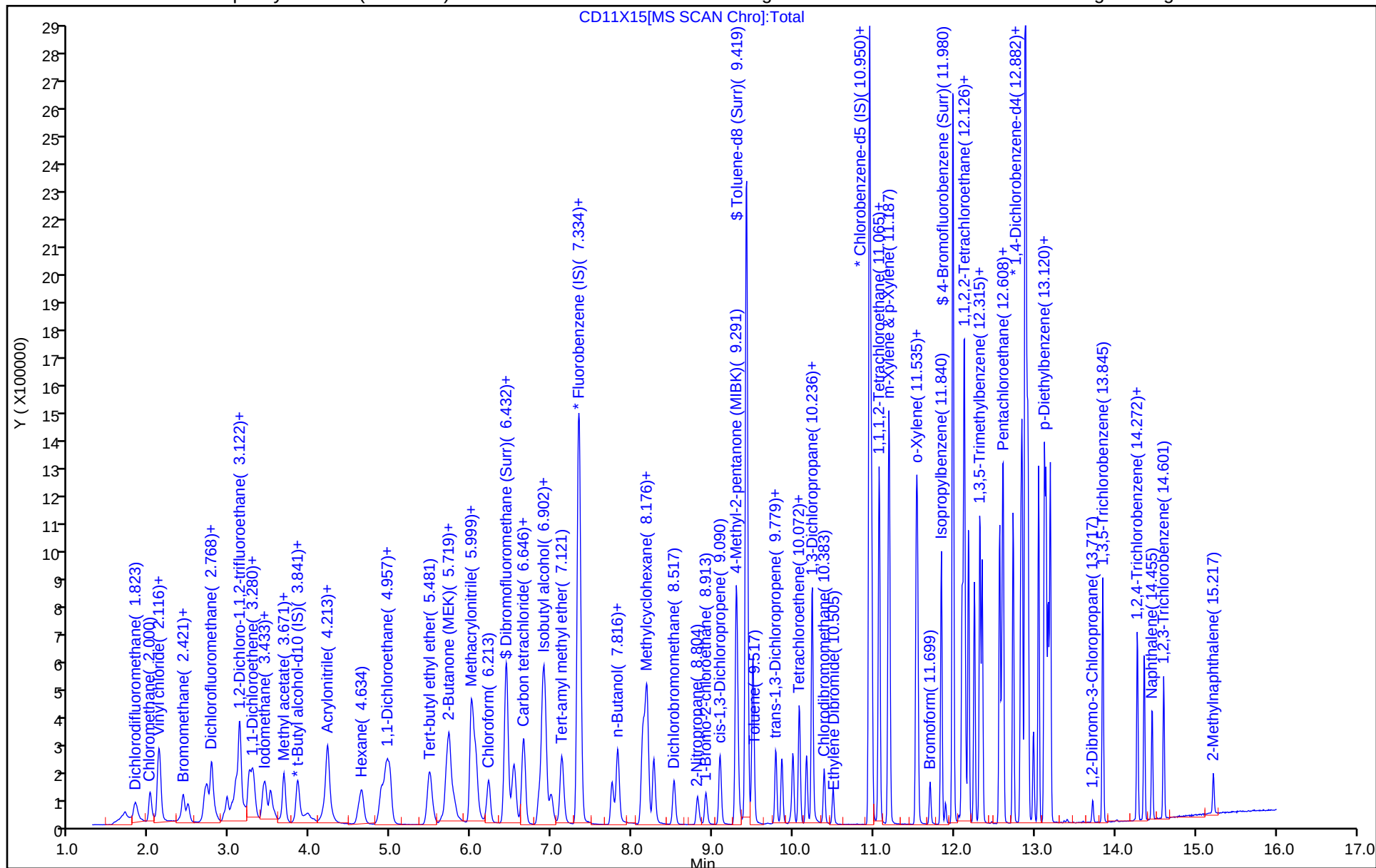
ALS Bottle#: 15

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

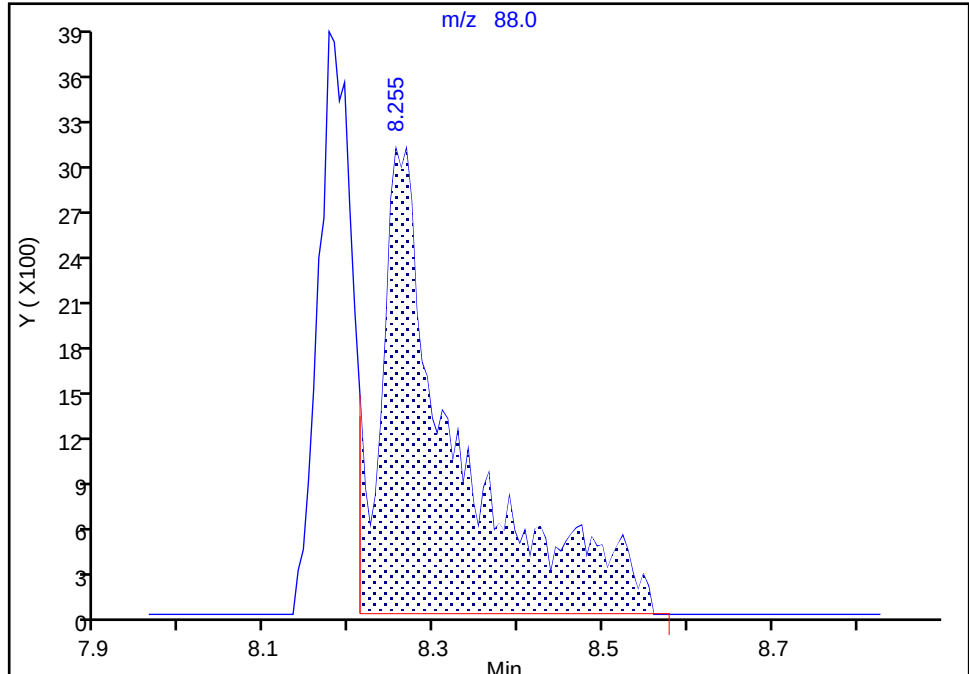
Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X15.D
Injection Date: 11-Dec-2023 22:34:30 Instrument ID: 10193
Lims ID: IC std4 2
Client ID:
Operator ID: gaw91131 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

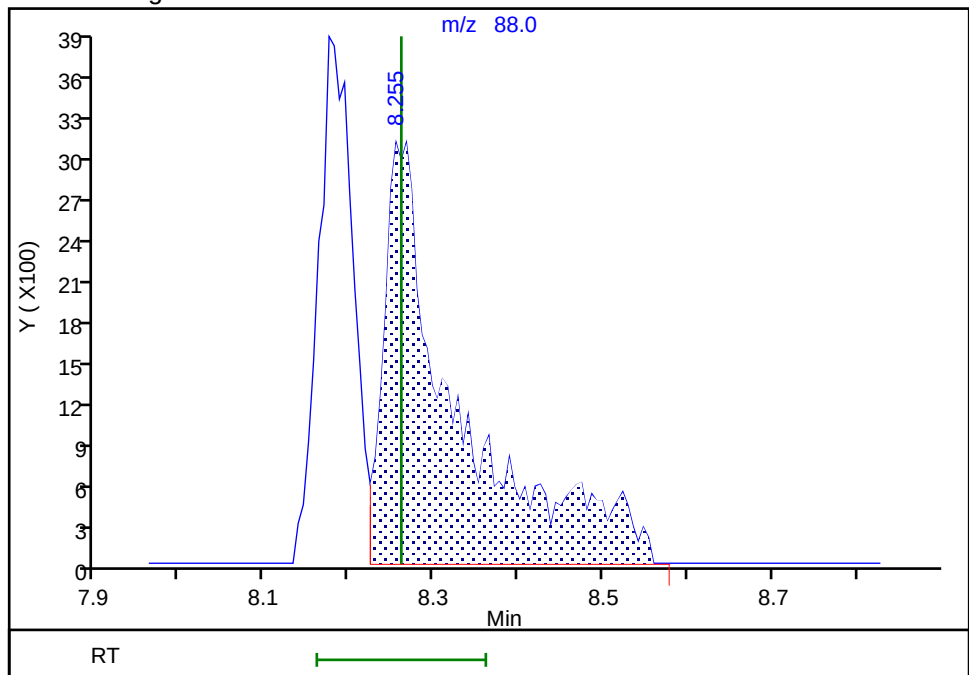
RT: 8.26
Area: 19208
Amount: 101.1225
Amount Units: ug/l

Processing Integration Results



RT: 8.26
Area: 18382
Amount: 96.891031
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 11:05:29 -05:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X16.D
 Lims ID: IC std5 5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 11-Dec-2023 22:57:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0101546-017
 Misc. Info.: IC STD5 5
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 14-Dec-2023 10:50:22 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1621

First Level Reviewer: DVW2

Date: 12-Dec-2023 11:07:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.829	1.817	0.012	99	339830	5.00	5.23	
5 Chloromethane	50	2.012	2.000	0.012	99	383043	5.00	4.71	
6 Vinyl chloride	62	2.116	2.110	0.006	98	366917	5.00	4.95	
7 Butadiene	39	2.122	2.110	0.012	94	386491	5.00	5.17	
9 Bromomethane	94	2.421	2.409	0.012	90	245969	5.00	4.81	
10 Chloroethane	64	2.482	2.470	0.012	100	198869	5.00	4.84	
11 Dichlorofluoromethane	67	2.713	2.701	0.012	97	536920	5.00	4.79	
12 Trichlorofluoromethane	101	2.774	2.762	0.012	98	417459	5.00	5.17	
13 Pentane	43	2.774	2.762	0.012	97	441858	5.00	5.17	
14 Ethyl ether	59	2.963	2.957	0.006	93	218468	5.00	4.97	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.067	3.055	0.012	92	300833	5.00	4.71	
17 Acrolein	56	3.122	3.110	0.012	100	1574224	250.0	254.6	
18 1,1-Dichloroethene	96	3.244	3.232	0.012	97	221835	5.00	4.87	
20 Acetone	43	3.274	3.268	0.006	100	299808	50.0	41.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.293	3.287	0.006	91	249666	5.00	5.21	
22 Iodomethane	142	3.414	3.409	0.006	98	464992	5.00	4.87	
24 Isopropyl alcohol	45	3.427	3.421	0.006	40	140956	100.0	87.4	
23 Ethyl bromide	108	3.445	3.433	0.012	98	216163	5.00	5.06	
25 Carbon disulfide	76	3.506	3.500	0.006	99	779361	5.00	4.91	
26 Methyl acetate	43	3.652	3.646	0.006	97	108478	5.00	4.43	
29 3-Chloro-1-propene	41	3.677	3.665	0.012	92	416364	5.00	4.88	
30 Methylene Chloride	84	3.841	3.829	0.012	92	257115	5.00	4.80	
* 31 t-Butyl alcohol-d10 (IS)	65	3.859	3.853	0.006	96	137958	50.0	50.0	
32 2-Methyl-2-propanol	59	3.969	3.969	0.000	99	269585	100.0	86.3	
33 Acrylonitrile	53	4.158	4.152	0.006	98	127444	12.5	11.2	
35 trans-1,2-Dichloroethene	96	4.213	4.201	0.012	99	261558	5.00	4.82	
34 Methyl tert-butyl ether	73	4.213	4.207	0.006	90	722804	5.00	4.87	
36 Hexane	57	4.634	4.628	0.006	94	374901	5.00	5.10	
37 1,1-Dichloroethane	63	4.878	4.872	0.006	96	485432	5.00	4.88	
39 Isopropyl ether	45	4.939	4.933	0.006	94	898950	5.00	4.84	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.987	4.975	0.012	91	401061	5.00	4.89	
41 Tert-butyl ethyl ether	59	5.481	5.481	0.000	98	857468	5.00	4.85	
42 2-Butanone (MEK)	43	5.694	5.682	0.012	100	731682	50.0	47.6	
43 cis-1,2-Dichloroethene	96	5.719	5.719	0.000	82	299607	5.00	4.90	
44 2,2-Dichloropropane	77	5.737	5.731	0.006	87	385000	5.00	4.66	
45 Propionitrile	54	5.792	5.780	0.012	99	376174	100.0	97.1	
47 Methacrylonitrile	67	5.999	5.999	0.000	92	719423	50.0	49.1	
48 Chlorobromomethane	128	6.054	6.048	0.006	91	134071	5.00	4.89	
49 Tetrahydrofuran	71	6.060	6.054	0.006	75	106650	25.0	24.1	
S 52 1,2-Dichloroethene, Total	100				0			9.71	
50 Chloroform	83	6.213	6.213	0.000	94	473657	5.00	4.68	
\$ 54 Dibromofluoromethane (Surr)	113	6.432	6.426	0.006	94	458570	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.438	6.432	0.006	96	410011	5.00	4.88	
55 Cyclohexane	56	6.530	6.530	0.000	91	474323	5.00	5.12	
56 Carbon tetrachloride	117	6.646	6.640	0.006	97	365624	5.00	4.94	
57 1,1-Dichloropropene	75	6.652	6.646	0.006	97	367591	5.00	4.87	
58 Isobutyl alcohol	41	6.841	6.841	0.000	94	257238	250.0	228.9	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.895	6.890	0.005	99	91235	10.0	9.90	
60 Benzene	78	6.920	6.914	0.006	97	1119156	5.00	4.83	
61 1,2-Dichloroethane	62	6.993	6.987	0.006	97	295610	5.00	4.74	
64 Tert-amyl methyl ether	73	7.127	7.121	0.006	98	774496	5.00	4.82	
* 65 Fluorobenzene (IS)	96	7.334	7.335	-0.001	98	2042373	10.0	10.0	
66 n-Heptane	43	7.347	7.347	0.000	92	390311	5.00	4.98	
67 n-Butanol	56	7.749	7.743	0.006	89	391669	437.5	411.4	
68 Trichloroethene	95	7.816	7.816	0.000	97	287521	5.00	4.80	
69 Methylcyclohexane	83	8.127	8.127	0.000	92	500767	5.00	5.15	
70 1,2-Dichloropropane	63	8.157	8.158	-0.001	97	292772	5.00	4.86	
71 2-ethoxy-2-methyl butane	87	8.188	8.182	0.006	93	468533	5.00	4.87	
74 1,4-Dioxane	88	8.255	8.261	-0.006	30	46248	250.0	239.2	M
73 Methyl methacrylate	69	8.267	8.261	0.006	91	143879	5.00	4.85	
72 Dibromomethane	93	8.267	8.267	0.000	87	142096	5.00	4.84	
76 Dichlorobromomethane	83	8.517	8.517	0.000	99	344772	5.00	4.93	
77 2-Nitropropane	41	8.810	8.810	0.000	99	202752	25.0	24.2	
78 1-Bromo-2-chloroethane	63	8.913	8.914	-0.001	98	312762	5.00	5.07	
80 cis-1,3-Dichloropropene	75	9.090	9.090	0.000	96	453200	5.00	4.96	
82 4-Methyl-2-pentanone (MIBK)	43	9.291	9.292	-0.001	97	1887430	50.0	49.2	
\$ 83 Toluene-d8 (Surr)	98	9.419	9.413	0.006	93	2013700	10.0	10.0	
84 Toluene	92	9.499	9.499	0.000	98	742678	5.00	4.86	
85 trans-1,3-Dichloropropene	75	9.785	9.779	0.006	93	383692	5.00	4.89	
86 Ethyl methacrylate	69	9.858	9.858	0.000	90	325668	5.00	4.98	
87 1,1,2-Trichloroethane	97	9.992	9.993	-0.001	90	207223	5.00	4.78	
S 107 1,3-Dichloropropene, Total	100				0			9.85	
88 Tetrachloroethene	166	10.078	10.072	0.006	98	343266	5.00	4.87	
89 1,3-Dichloropropane	76	10.163	10.163	0.000	92	357947	5.00	4.81	
106 2-Hexanone	43	10.230	10.230	0.000	97	1402425	50.0	49.6	
108 Chlorodibromomethane	129	10.383	10.383	0.000	90	260164	5.00	4.92	
110 Ethylene Dibromide	107	10.492	10.492	0.000	98	205469	5.00	4.88	
* 111 Chlorobenzene-d5 (IS)	117	10.950	10.950	0.000	84	1587835	10.0	10.0	
112 1-Chlorohexane	91	10.968	10.968	0.000	99	400900	5.00	4.71	
113 Chlorobenzene	112	10.974	10.974	0.000	96	869576	5.00	4.88	
115 Ethylbenzene	91	11.071	11.066	0.005	98	1450251	5.00	4.87	
114 1,1,1,2-Tetrachloroethane	131	11.065	11.066	-0.001	96	300411	5.00	4.87	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.187	11.187	0.000	97	1173333	10.0	9.79	
S 117 Xylenes, Total	106				0			14.7	
118 o-Xylene	106	11.529	11.529	0.000	96	581730	5.00	4.87	
119 Styrene	104	11.541	11.541	0.000	95	966398	5.00	4.94	
120 Bromoform	173	11.699	11.700	-0.001	97	160229	5.00	4.84	
121 Isopropylbenzene	105	11.840	11.840	0.000	95	1390735	5.00	4.89	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	93	808909	10.0	10.0	
126 1,1,2,2-Tetrachloroethane	83	12.096	12.096	0.000	75	264242	5.00	4.81	
125 Bromobenzene	156	12.096	12.102	-0.006	92	389945	5.00	4.80	
127 trans-1,4-Dichloro-2-butene	53	12.120	12.120	0.000	93	729396	50.0	49.1	
128 1,2,3-Trichloropropane	110	12.138	12.139	0.000	78	71794	5.00	4.80	
129 N-Propylbenzene	91	12.175	12.175	0.000	99	1740820	5.00	4.85	
130 2-Chlorotoluene	126	12.248	12.248	0.000	97	371575	5.00	4.76	
131 1,3,5-Trimethylbenzene	105	12.321	12.321	0.000	94	1289480	5.00	4.82	
132 4-Chlorotoluene	126	12.346	12.346	0.000	97	388785	5.00	4.75	
133 tert-Butylbenzene	134	12.565	12.565	0.000	93	299921	5.00	4.85	
134 Pentachloroethane	167	12.596	12.596	0.000	93	241155	5.00	5.08	
135 1,2,4-Trimethylbenzene	105	12.608	12.608	0.000	97	1328434	5.00	4.82	
136 sec-Butylbenzene	105	12.730	12.730	0.000	94	1642103	5.00	4.87	
137 1,3-Dichlorobenzene	146	12.827	12.827	0.000	98	775814	5.00	4.80	
138 4-Isopropyltoluene	119	12.839	12.846	-0.007	97	1468012	5.00	4.82	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.882	0.000	94	948445	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.900	12.901	-0.001	95	781058	5.00	4.76	
141 1,2,3-Trimethylbenzene	120	12.919	12.919	0.000	98	606581	5.00	4.80	
142 Benzyl chloride	126	12.986	12.986	0.000	98	110788	5.00	5.04	
145 p-Diethylbenzene	119	13.120	13.120	0.000	94	914077	5.00	4.86	
143 n-Butylbenzene	92	13.138	13.138	0.000	97	713710	5.00	4.84	
144 1,2-Dichlorobenzene	146	13.169	13.169	0.000	99	703130	5.00	4.76	
148 1,2-Dibromo-3-Chloropropane	155	13.717	13.717	0.000	89	36662	5.00	4.73	
149 1,3,5-Trichlorobenzene	180	13.845	13.845	0.000	98	574272	5.00	4.80	
150 1,2,4-Trichlorobenzene	180	14.272	14.272	0.000	94	459227	5.00	4.97	
151 Hexachlorobutadiene	225	14.357	14.364	-0.007	97	238986	5.00	4.82	
152 Naphthalene	128	14.455	14.455	0.000	97	678769	5.00	4.96	
153 1,2,3-Trichlorobenzene	180	14.601	14.601	0.000	96	329360	5.00	4.87	
154 2-Methylnaphthalene	142	15.217	15.217	0.000	92	190655	5.00	5.18	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00107	Amount Added: 5.00	Units: uL	
MSV_LL_#2_826_00117	Amount Added: 5.00	Units: uL	
MSV_LL_GAS826_00182	Amount Added: 5.00	Units: uL	
MSV_29_826ISS_00052	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 14-Dec-2023 10:50:23

Chrom Revision: 2.3 30-Nov-2023 17:25:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X16.D

Injection Date: 11-Dec-2023 22:57:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: IC std5 5

Worklist Smp#: 17

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

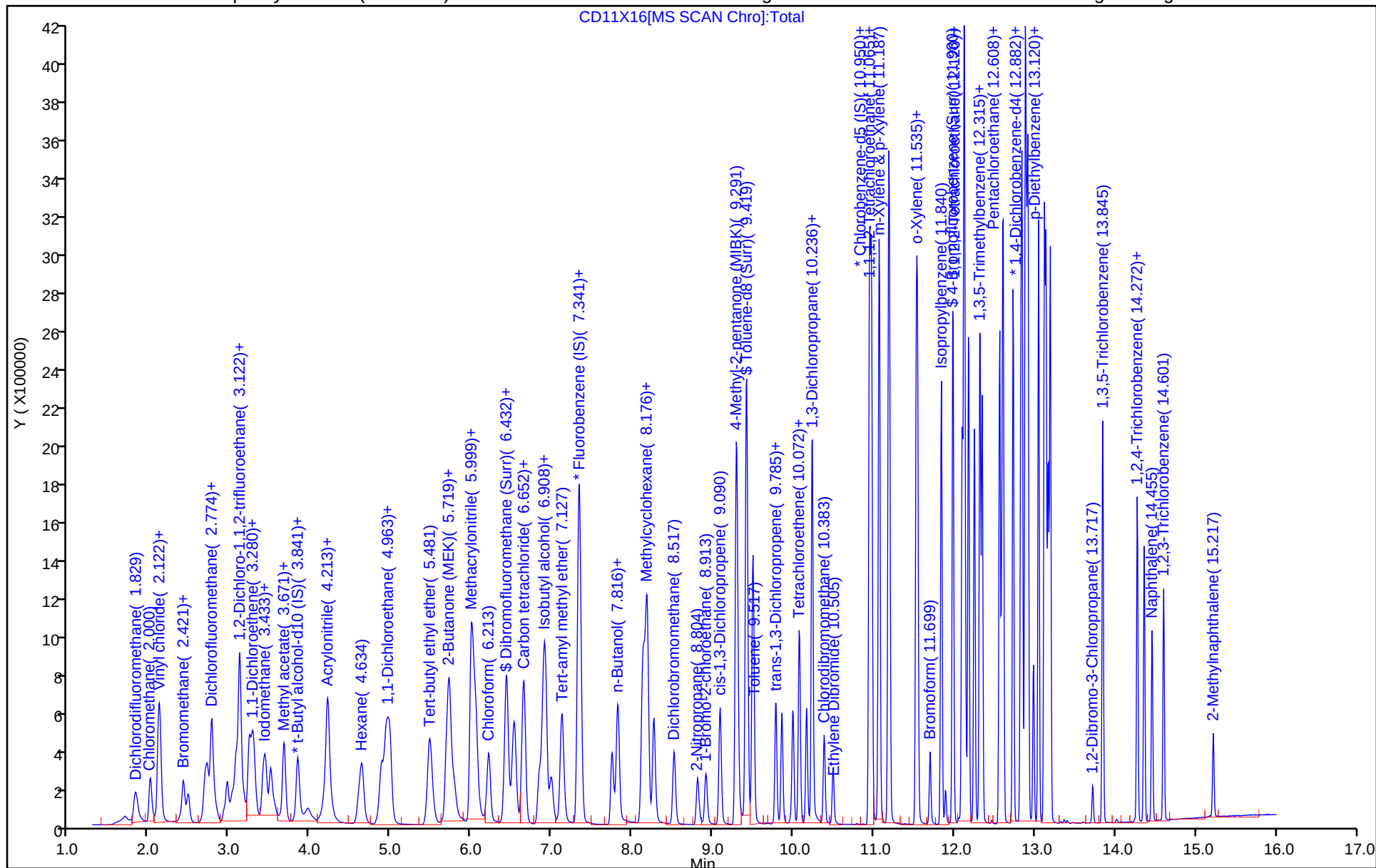
ALS Bottle#: 16

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

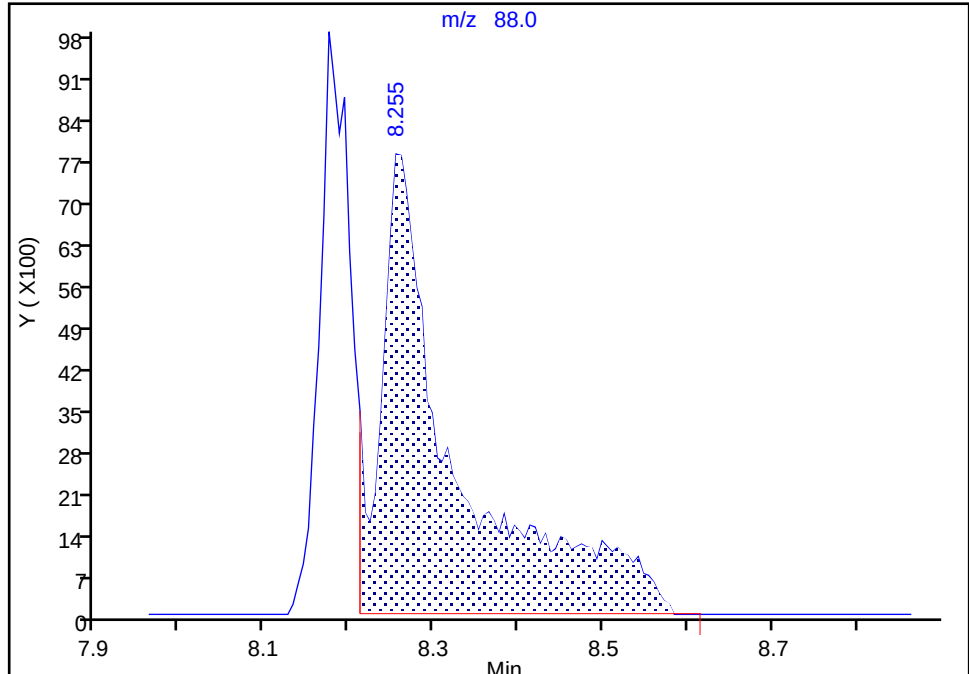
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Injection Date: 11-Dec-2023 22:57:30 Instrument ID: 10193
Lims ID: IC std5 5
Client ID:
Operator ID: gaw91131 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

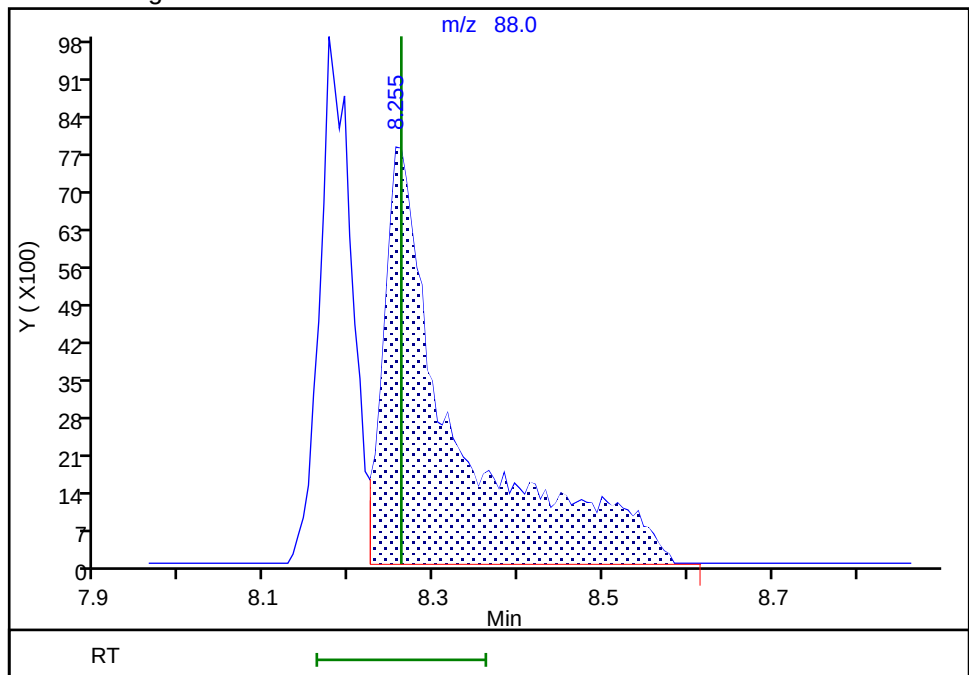
RT: 8.25
Area: 48143
Amount: 257.6911
Amount Units: ug/l

Processing Integration Results



RT: 8.25
Area: 46248
Amount: 239.1831
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 11:07:26 -05:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X17.D
 Lims ID: ICIS 10
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 11-Dec-2023 23:19:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0101546-018
 Misc. Info.: ICIS 10
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 14-Dec-2023 10:50:30 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1621

First Level Reviewer: DVW2

Date: 12-Dec-2023 15:21:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.817	1.817	0.000	99	704975	10.0	10.8	
5 Chloromethane	50	2.000	2.000	0.000	99	803117	10.0	9.81	
6 Vinyl chloride	62	2.110	2.110	0.000	98	763768	10.0	10.2	
7 Butadiene	39	2.110	2.110	0.000	94	780474	10.0	10.4	
9 Bromomethane	94	2.409	2.409	0.000	90	510845	10.0	9.92	
10 Chloroethane	64	2.470	2.470	0.000	100	405704	10.0	9.81	
11 Dichlorofluoromethane	67	2.701	2.701	0.000	97	1115048	10.0	9.90	
12 Trichlorofluoromethane	101	2.762	2.762	0.000	98	866521	10.0	10.7	
13 Pentane	43	2.762	2.762	0.000	98	942946	10.0	11.0	
14 Ethyl ether	59	2.957	2.957	0.000	92	449973	10.0	10.2	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.055	3.055	0.000	93	629698	10.0	9.81	
17 Acrolein	56	3.110	3.110	0.000	100	3360514	500.0	533.1	
18 1,1-Dichloroethene	96	3.232	3.232	0.000	98	466728	10.0	10.2	
20 Acetone	43	3.268	3.268	0.000	100	775360	100.0	105.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.287	3.287	0.000	91	524879	10.0	10.9	
22 Iodomethane	142	3.409	3.409	0.000	98	981576	10.0	10.2	
24 Isopropyl alcohol	45	3.421	3.421	0.000	41	324341	200.0	197.4	
23 Ethyl bromide	108	3.433	3.433	0.000	98	441907	10.0	10.3	
25 Carbon disulfide	76	3.500	3.500	0.000	99	1678820	10.0	10.5	
26 Methyl acetate	43	3.646	3.646	0.000	97	232146	10.0	9.31	
29 3-Chloro-1-propene	41	3.665	3.665	0.000	92	883740	10.0	10.3	
30 Methylene Chloride	84	3.829	3.829	0.000	93	545785	10.0	10.1	
* 31 t-Butyl alcohol-d10 (IS)	65	3.841	3.841	0.000	96	140657	50.0	50.0	M
32 2-Methyl-2-propanol	59	3.969	3.969	0.000	99	592128	200.0	185.8	
33 Acrylonitrile	53	4.152	4.152	0.000	98	272924	25.0	23.6	
35 trans-1,2-Dichloroethene	96	4.201	4.201	0.000	99	556344	10.0	10.2	
34 Methyl tert-butyl ether	73	4.207	4.207	0.000	97	1522863	10.0	10.2	
36 Hexane	57	4.628	4.628	0.000	93	808320	10.0	10.9	
37 1,1-Dichloroethane	63	4.872	4.872	0.000	96	1005944	10.0	10.0	
39 Isopropyl ether	45	4.933	4.933	0.000	94	1903110	10.0	10.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.975	4.975	0.000	91	867976	10.0	10.5	
41 Tert-butyl ethyl ether	59	5.481	5.481	0.000	98	1830203	10.0	10.3	
42 2-Butanone (MEK)	43	5.682	5.682	0.000	100	1555121	100.0	99.2	
43 cis-1,2-Dichloroethene	96	5.719	5.719	0.000	82	629624	10.0	10.2	
44 2,2-Dichloropropane	77	5.731	5.731	0.000	87	830602	10.0	10.0	
45 Propionitrile	54	5.780	5.780	0.000	99	783924	200.0	198.6	
47 Methacrylonitrile	67	5.999	5.999	0.000	94	1549568	100.0	103.7	
48 Chlorobromomethane	128	6.048	6.048	0.000	92	284196	10.0	10.3	
49 Tetrahydrofuran	71	6.054	6.054	0.000	82	222091	50.0	49.2	
50 Chloroform	83	6.213	6.213	0.000	94	994622	10.0	9.77	
\$ 54 Dibromofluoromethane (Surr)	113	6.426	6.426	0.000	94	462070	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.432	6.432	0.000	98	879346	10.0	10.4	
55 Cyclohexane	56	6.530	6.530	0.000	91	1030217	10.0	11.1	
56 Carbon tetrachloride	117	6.640	6.640	0.000	96	802439	10.0	10.8	
57 1,1-Dichloropropene	75	6.646	6.646	0.000	97	785600	10.0	10.4	
58 Isobutyl alcohol	41	6.841	6.841	0.000	95	561004	500.0	489.5	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.890	6.890	0.000	99	92379	10.0	9.96	
60 Benzene	78	6.914	6.914	0.000	96	2372895	10.0	10.2	
61 1,2-Dichloroethane	62	6.987	6.987	0.000	98	625013	10.0	9.97	
64 Tert-amyl methyl ether	73	7.121	7.121	0.000	98	1659586	10.0	10.3	
* 65 Fluorobenzene (IS)	96	7.328	7.328	0.000	99	2054434	10.0	10.0	
66 n-Heptane	43	7.347	7.347	0.000	92	857327	10.0	10.9	
67 n-Butanol	56	7.743	7.743	0.000	89	933323	875.0	961.6	
68 Trichloroethene	95	7.816	7.816	0.000	97	616114	10.0	10.2	
69 Methylcyclohexane	83	8.127	8.127	0.000	91	1089973	10.0	11.1	
70 1,2-Dichloropropane	63	8.158	8.158	0.000	97	615564	10.0	10.2	
71 2-ethoxy-2-methyl butane	87	8.182	8.182	0.000	93	998241	10.0	10.3	
74 1,4-Dioxane	88	8.261	8.261	0.000	35	109779	500.0	556.9	M
73 Methyl methacrylate	69	8.261	8.261	0.000	92	313133	10.0	10.4	
72 Dibromomethane	93	8.267	8.267	0.000	93	304525	10.0	10.3	
76 Dichlorobromomethane	83	8.517	8.517	0.000	99	736839	10.0	10.5	
77 2-Nitropropane	41	8.810	8.810	0.000	98	447001	50.0	52.4	
78 1-Bromo-2-chloroethane	63	8.914	8.914	0.000	99	648350	10.0	10.4	
80 cis-1,3-Dichloropropene	75	9.090	9.090	0.000	96	965494	10.0	10.5	
82 4-Methyl-2-pentanone (MIBK)	43	9.292	9.292	0.000	97	4058960	100.0	103.7	
\$ 83 Toluene-d8 (Surr)	98	9.413	9.413	0.000	93	2027962	10.0	10.0	
84 Toluene	92	9.499	9.499	0.000	98	1575422	10.0	10.3	
85 trans-1,3-Dichloropropene	75	9.779	9.779	0.000	93	825819	10.0	10.5	
86 Ethyl methacrylate	69	9.858	9.858	0.000	90	692186	10.0	10.5	
87 1,1,2-Trichloroethane	97	9.993	9.993	0.000	91	434673	10.0	9.96	
88 Tetrachloroethene	166	10.072	10.072	0.000	98	733983	10.0	10.4	
89 1,3-Dichloropropane	76	10.163	10.163	0.000	92	765671	10.0	10.2	
106 2-Hexanone	43	10.230	10.230	0.000	97	3036165	100.0	105.4	
108 Chlorodibromomethane	129	10.383	10.383	0.000	90	570920	10.0	10.7	
110 Ethylene Dibromide	107	10.492	10.492	0.000	99	438405	10.0	10.3	
* 111 Chlorobenzene-d5 (IS)	117	10.944	10.944	0.000	85	1597591	10.0	10.0	
112 1-Chlorohexane	91	10.968	10.968	0.000	98	865703	10.0	10.1	
113 Chlorobenzene	112	10.974	10.974	0.000	96	1838587	10.0	10.2	
115 Ethylbenzene	91	11.066	11.066	0.000	98	3122768	10.0	10.4	
114 1,1,1,2-Tetrachloroethane	131	11.066	11.066	0.000	97	648925	10.0	10.5	
116 m-Xylene & p-Xylene	106	11.187	11.187	0.000	97	2500002	20.0	20.7	
118 o-Xylene	106	11.529	11.529	0.000	96	1251570	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
119 Styrene	104	11.541	11.541	0.000	95	2087043	10.0	10.6	
120 Bromoform	173	11.700	11.700	0.000	98	357087	10.0	10.7	
121 Isopropylbenzene	105	11.840	11.840	0.000	95	2995216	10.0	10.5	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	93	818052	10.0	10.1	
126 1,1,2,2-Tetrachloroethane	83	12.096	12.096	0.000	76	572200	10.0	10.2	
125 Bromobenzene	156	12.102	12.102	0.000	90	832877	10.0	10.1	
127 trans-1,4-Dichloro-2-butene	53	12.120	12.120	0.000	93	1603128	100.0	106.0	
128 1,2,3-Trichloropropane	110	12.139	12.139	0.000	80	148787	10.0	9.77	
129 N-Propylbenzene	91	12.175	12.175	0.000	99	3735966	10.0	10.2	
130 2-Chlorotoluene	126	12.248	12.248	0.000	97	798211	10.0	10.0	
131 1,3,5-Trimethylbenzene	105	12.321	12.321	0.000	94	2800564	10.0	10.3	
132 4-Chlorotoluene	126	12.346	12.346	0.000	97	839467	10.0	10.1	
133 tert-Butylbenzene	134	12.565	12.565	0.000	93	648979	10.0	10.3	
134 Pentachloroethane	167	12.596	12.596	0.000	94	519031	10.0	10.7	
135 1,2,4-Trimethylbenzene	105	12.608	12.608	0.000	97	2891517	10.0	10.3	
136 sec-Butylbenzene	105	12.730	12.730	0.000	94	3575738	10.0	10.4	
137 1,3-Dichlorobenzene	146	12.827	12.827	0.000	98	1678162	10.0	10.2	
138 4-Isopropyltoluene	119	12.846	12.846	0.000	97	3218405	10.0	10.4	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.882	0.000	94	965542	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.901	12.901	0.000	95	1696617	10.0	10.2	
141 1,2,3-Trimethylbenzene	120	12.919	12.919	0.000	98	1318241	10.0	10.2	
142 Benzyl chloride	126	12.986	12.986	0.000	98	251995	10.0	11.3	
145 p-Diethylbenzene	119	13.120	13.120	0.000	93	1991722	10.0	10.4	
143 n-Butylbenzene	92	13.138	13.138	0.000	96	1558615	10.0	10.4	
144 1,2-Dichlorobenzene	146	13.169	13.169	0.000	99	1541377	10.0	10.3	
148 1,2-Dibromo-3-Chloropropane	155	13.717	13.717	0.000	89	87009	10.0	11.0	
149 1,3,5-Trichlorobenzene	180	13.845	13.845	0.000	98	1271651	10.0	10.4	
150 1,2,4-Trichlorobenzene	180	14.272	14.272	0.000	94	1036062	10.0	11.0	
151 Hexachlorobutadiene	225	14.364	14.364	0.000	96	530205	10.0	10.5	
152 Naphthalene	128	14.455	14.455	0.000	97	1621269	10.0	11.6	
153 1,2,3-Trichlorobenzene	180	14.601	14.601	0.000	96	790460	10.0	11.5	
154 2-Methylnaphthalene	142	15.217	15.217	0.000	92	560657	10.0	15.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00107

Amount Added: 10.00

Units: uL

MSV_LL_#2_826_00117

Amount Added: 10.00

Units: uL

MSV_LL_GAS826_00182

Amount Added: 10.00

Units: uL

MSV_29_826ISS_00052

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 14-Dec-2023 10:50:31

Chrom Revision: 2.3 30-Nov-2023 17:25:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X17.D

Injection Date: 11-Dec-2023 23:19:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: ICIS 10

Worklist Smp#: 18

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

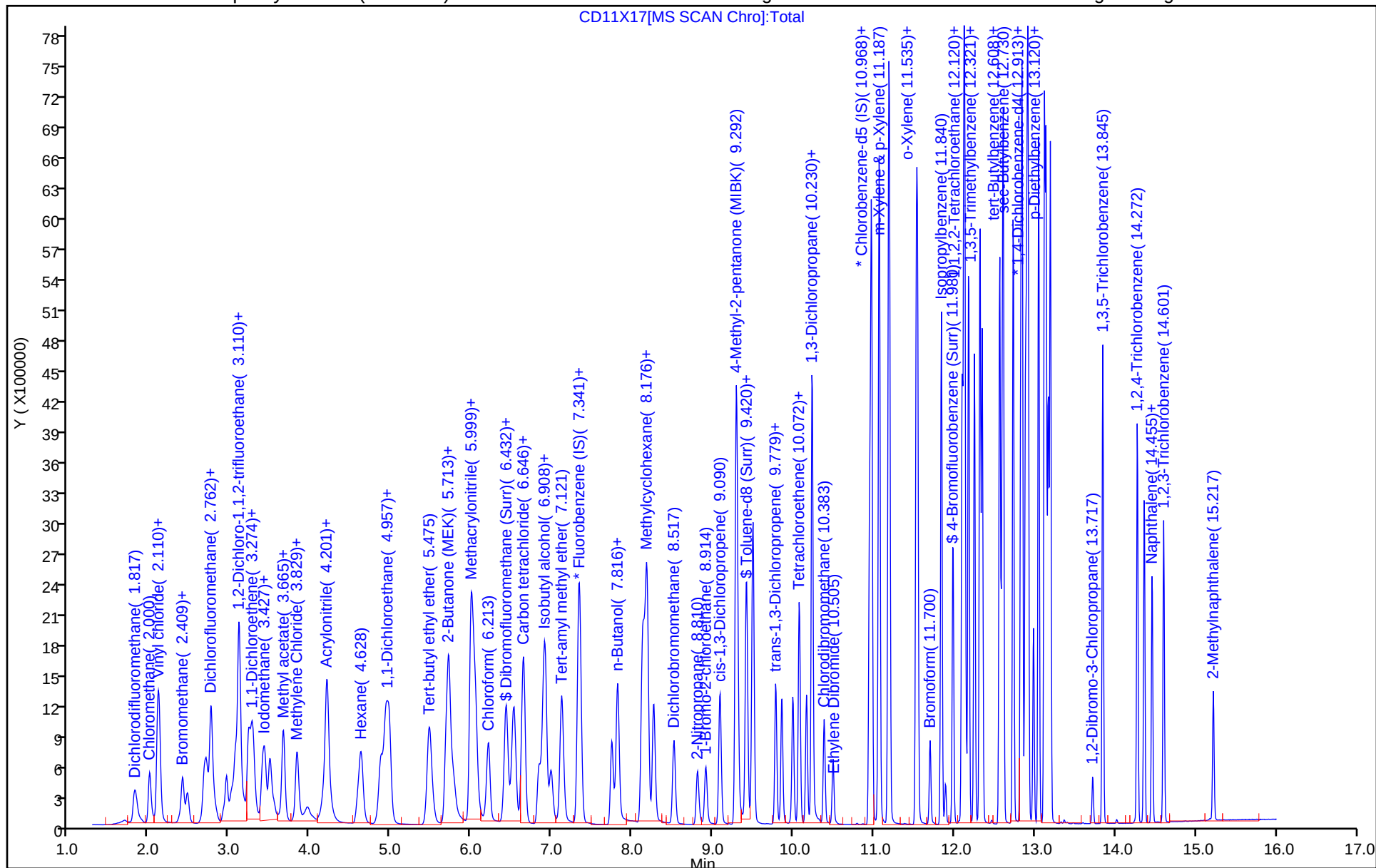
ALS Bottle#: 17

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

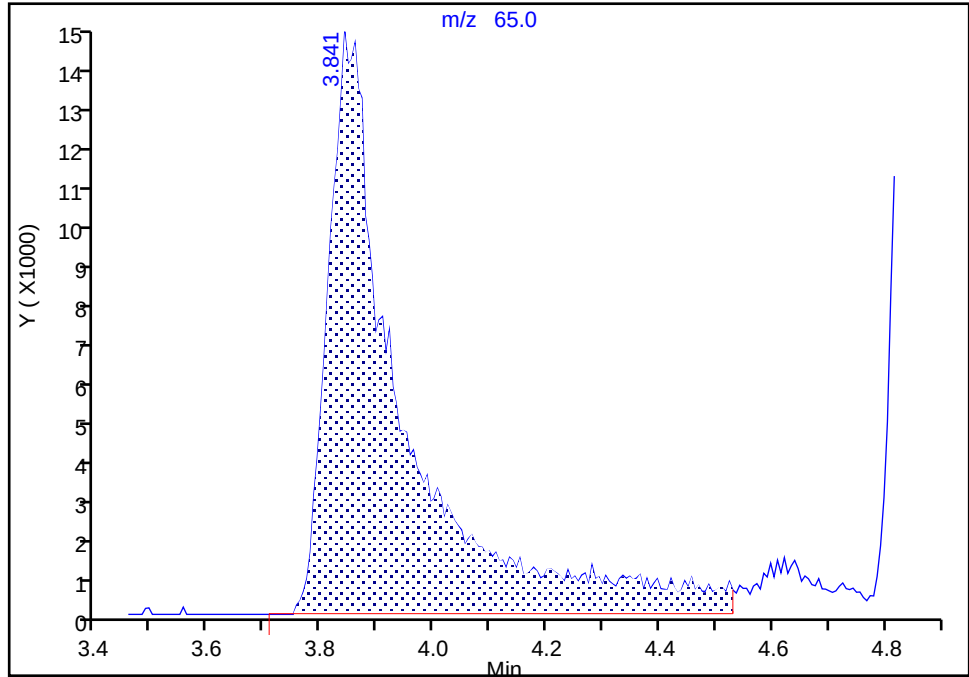
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Injection Date: 11-Dec-2023 23:19:30 Instrument ID: 10193
Lims ID: ICIS 10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 31 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

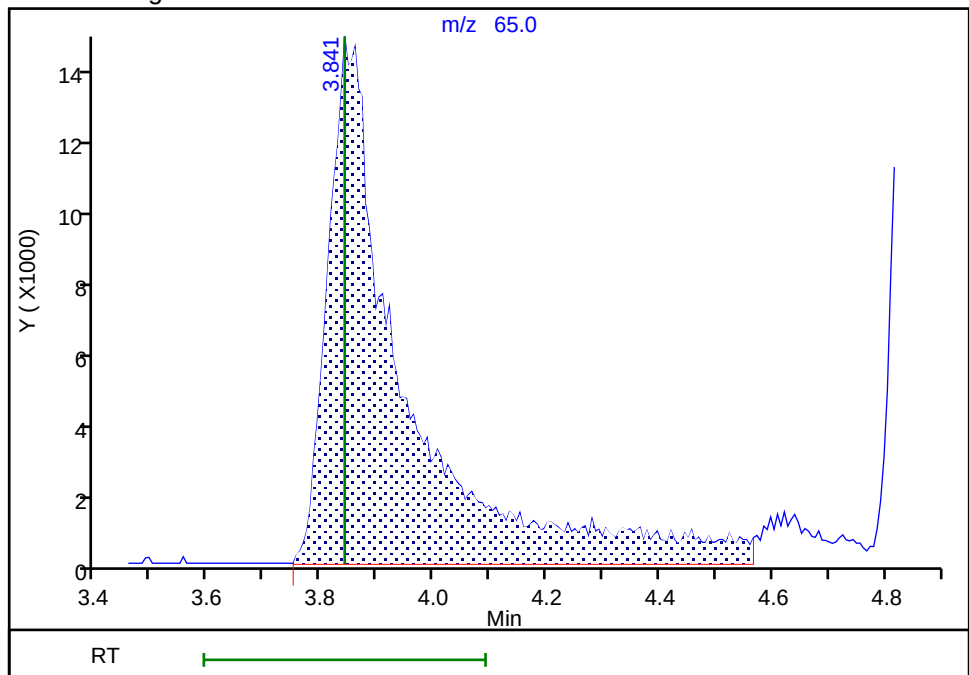
RT: 3.84
Area: 139247
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.84
Area: 140657
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 14-Dec-2023 10:37:34 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC

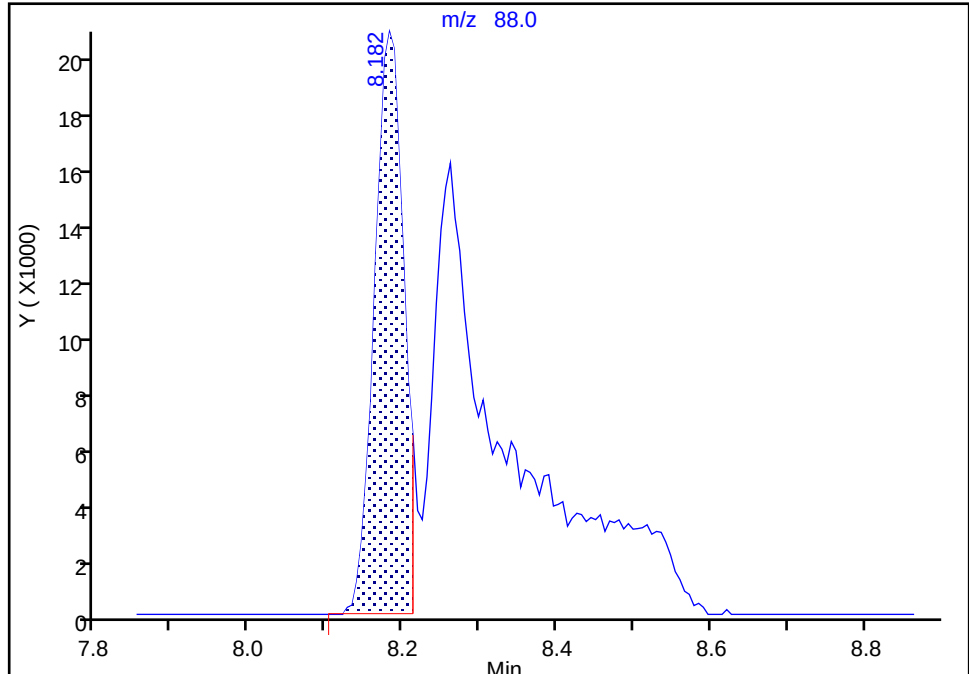
Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X17.D
Injection Date: 11-Dec-2023 23:19:30 Instrument ID: 10193
Lims ID: ICIS 10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

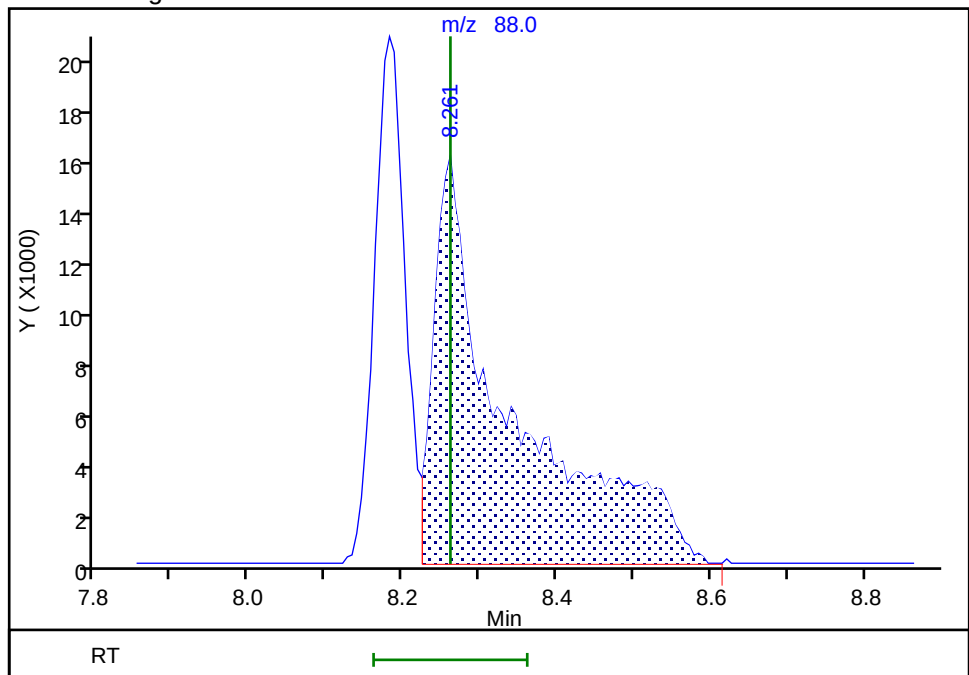
RT: 8.18
Area: 53839
Amount: 318.5466
Amount Units: ug/l

Processing Integration Results



RT: 8.26
Area: 109779
Amount: 556.8552
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 12:17:20 -05:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Lims ID: IC std7 25
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 11-Dec-2023 23:41:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0101546-019
 Misc. Info.: IC STD7 25
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 14-Dec-2023 10:50:38 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1621

First Level Reviewer: DVW2

Date: 12-Dec-2023 11:11:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.823	1.817	0.006	99	1766053	25.0	26.1	
5 Chloromethane	50	2.000	2.000	0.000	99	1919302	25.0	22.7	
6 Vinyl chloride	62	2.104	2.110	-0.006	98	1861110	25.0	24.1	
7 Butadiene	39	2.116	2.110	0.006	94	1880721	25.0	24.2	
9 Bromomethane	94	2.409	2.409	0.000	90	1229403	25.0	23.1	
10 Chloroethane	64	2.470	2.470	0.000	100	999693	25.0	23.4	
11 Dichlorofluoromethane	67	2.707	2.701	0.006	97	2737082	25.0	23.5	
12 Trichlorofluoromethane	101	2.762	2.762	0.000	98	2125145	25.0	25.3	
13 Pentane	43	2.762	2.762	0.000	97	2235091	25.0	25.1	
14 Ethyl ether	59	2.951	2.957	-0.006	92	1095312	25.0	24.0	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.061	3.055	0.006	92	1566308	25.0	23.6	
17 Acrolein	56	3.110	3.110	0.000	99	8450546	1249.9	1300.9	
18 1,1-Dichloroethene	96	3.232	3.232	0.000	98	1113382	25.0	23.5	
20 Acetone	43	3.268	3.268	0.000	100	1465459	250.0	193.1	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.287	3.287	0.000	91	1251194	25.0	25.1	
22 Iodomethane	142	3.402	3.409	-0.006	98	2390053	25.0	24.1	
24 Isopropyl alcohol	45	3.421	3.421	0.000	92	836496	500.0	493.9	
23 Ethyl bromide	108	3.433	3.433	0.000	98	1085147	25.0	24.4	
25 Carbon disulfide	76	3.500	3.500	0.000	99	4093133	25.0	24.8	
26 Methyl acetate	43	3.646	3.646	0.000	97	603787	25.0	23.5	
29 3-Chloro-1-propene	41	3.665	3.665	0.000	92	2162959	25.0	24.3	
30 Methylene Chloride	84	3.835	3.829	0.006	93	1333450	25.0	23.9	
* 31 t-Butyl alcohol-d10 (IS)	65	3.847	3.841	0.006	36	144957	50.0	50.0	M
32 2-Methyl-2-propanol	59	3.963	3.969	-0.006	100	1573639	500.0	479.2	
33 Acrylonitrile	53	4.152	4.152	0.000	98	710186	62.5	59.5	
35 trans-1,2-Dichloroethene	96	4.201	4.201	0.000	98	1352643	25.0	23.9	
34 Methyl tert-butyl ether	73	4.201	4.207	-0.006	95	3739425	25.0	24.2	
36 Hexane	57	4.622	4.628	-0.006	93	1927967	25.0	25.2	
37 1,1-Dichloroethane	63	4.872	4.872	0.000	96	2475289	25.0	23.9	
39 Isopropyl ether	45	4.939	4.933	0.006	94	4697838	25.0	24.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.975	4.975	0.000	91	2122122	25.0	24.9	
41 Tert-butyl ethyl ether	59	5.481	5.481	0.000	98	4484340	25.0	24.4	
42 2-Butanone (MEK)	43	5.689	5.682	0.006	100	3863855	250.0	239.1	
43 cis-1,2-Dichloroethene	96	5.713	5.719	-0.006	82	1534117	25.0	24.1	
44 2,2-Dichloropropane	77	5.731	5.731	0.000	86	2010663	25.0	23.4	
45 Propionitrile	54	5.792	5.780	0.012	99	2046857	500.0	503.1	
47 Methacrylonitrile	67	6.006	5.999	0.007	93	3847742	250.0	249.7	
48 Chlorobromomethane	128	6.048	6.048	0.000	95	697705	25.0	24.4	
49 Tetrahydrofuran	71	6.054	6.054	0.000	89	549929	125.0	118.2	
S 52 1,2-Dichloroethene, Total	100				0			48.0	
50 Chloroform	83	6.213	6.213	0.000	93	2422707	25.0	23.0	
\$ 54 Dibromofluoromethane (Surr)	113	6.432	6.426	0.006	94	476883	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.432	6.432	0.000	98	2150263	25.0	24.6	
55 Cyclohexane	56	6.530	6.530	0.000	91	2488742	25.0	25.8	
56 Carbon tetrachloride	117	6.640	6.640	0.000	96	1948893	25.0	25.3	
57 1,1-Dichloropropene	75	6.652	6.646	0.006	97	1928421	25.0	24.6	
58 Isobutyl alcohol	41	6.841	6.841	0.000	95	1407371	1250.0	1191.6	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.896	6.890	0.006	99	96347	10.0	10.0	
60 Benzene	78	6.920	6.914	0.006	96	5758950	25.0	23.9	
61 1,2-Dichloroethane	62	6.993	6.987	0.006	97	1512081	25.0	23.3	
64 Tert-amyl methyl ether	73	7.121	7.121	0.000	98	4105797	25.0	24.6	
* 65 Fluorobenzene (IS)	96	7.335	7.328	0.007	95	2125786	10.0	10.0	
66 n-Heptane	43	7.347	7.347	0.000	93	2058964	25.0	25.2	
67 n-Butanol	56	7.743	7.743	0.000	89	2290397	2187.5	2289.8	
68 Trichloroethene	95	7.816	7.816	0.000	98	1493375	25.0	23.9	
69 Methylcyclohexane	83	8.127	8.127	0.000	91	2616733	25.0	25.9	
70 1,2-Dichloropropane	63	8.164	8.158	0.006	97	1530766	25.0	24.4	
71 2-ethoxy-2-methyl butane	87	8.182	8.182	0.000	93	2483964	25.0	24.8	
74 1,4-Dioxane	88	8.255	8.261	-0.006	32	236766	1250.0	1165.4	M
73 Methyl methacrylate	69	8.261	8.261	0.000	92	747853	25.0	24.0	
72 Dibromomethane	93	8.267	8.267	0.000	92	741296	25.0	24.3	
76 Dichlorobromomethane	83	8.517	8.517	0.000	99	1816650	25.0	24.9	
77 2-Nitropropane	41	8.810	8.810	0.000	98	1135527	125.0	129.2	
78 1-Bromo-2-chloroethane	63	8.913	8.914	-0.001	98	1565129	25.0	24.4	
80 cis-1,3-Dichloropropene	75	9.090	9.090	0.000	96	2390817	25.0	25.1	
82 4-Methyl-2-pentanone (MIBK)	43	9.291	9.292	-0.001	97	10195457	250.0	252.8	
\$ 83 Toluene-d8 (Surr)	98	9.419	9.413	0.006	93	2076985	10.0	10.1	
84 Toluene	92	9.499	9.499	0.000	98	3805439	25.0	24.3	
85 trans-1,3-Dichloropropene	75	9.785	9.779	0.006	93	2058324	25.0	25.6	
86 Ethyl methacrylate	69	9.858	9.858	0.000	90	1712572	25.0	25.5	
87 1,1,2-Trichloroethane	97	9.993	9.993	0.000	91	1064541	25.0	23.9	
S 107 1,3-Dichloropropene, Total	100				0			50.7	
88 Tetrachloroethene	166	10.078	10.072	0.006	97	1787353	25.0	24.7	
89 1,3-Dichloropropane	76	10.163	10.163	0.000	91	1875672	25.0	24.5	
106 2-Hexanone	43	10.236	10.230	0.006	96	7340905	250.0	247.3	
108 Chlorodibromomethane	129	10.383	10.383	0.000	90	1419064	25.0	26.1	
110 Ethylene Dibromide	107	10.492	10.492	0.000	99	1066003	25.0	24.7	
* 111 Chlorobenzene-d5 (IS)	117	10.950	10.944	0.006	85	1630500	10.0	10.0	
112 1-Chlorohexane	91	10.968	10.968	0.000	98	2086489	25.0	23.9	
113 Chlorobenzene	112	10.974	10.974	0.000	96	4461216	25.0	24.4	
115 Ethylbenzene	91	11.072	11.066	0.006	98	7602583	25.0	24.8	
114 1,1,1,2-Tetrachloroethane	131	11.066	11.066	0.000	96	1613342	25.0	25.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.187	11.187	0.000	97	6093253	50.0	49.5	
S 117 Xylenes, Total	106				0			74.3	
118 o-Xylene	106	11.529	11.529	0.000	96	3041968	25.0	24.8	
119 Styrene	104	11.541	11.541	0.000	95	5113352	25.0	25.4	
120 Bromoform	173	11.700	11.700	0.000	98	894248	25.0	26.3	
121 Isopropylbenzene	105	11.840	11.840	0.000	95	7253779	25.0	24.8	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	93	845362	10.0	10.2	
126 1,1,2,2-Tetrachloroethane	83	12.096	12.096	0.000	76	1404574	25.0	24.4	
125 Bromobenzene	156	12.102	12.102	0.000	90	2039981	25.0	24.0	
127 trans-1,4-Dichloro-2-butene	53	12.126	12.120	0.006	92	3965883	250.0	254.8	
128 1,2,3-Trichloropropane	110	12.138	12.139	0.000	79	377790	25.0	24.1	
129 N-Propylbenzene	91	12.181	12.175	0.006	98	8962858	25.0	23.8	
130 2-Chlorotoluene	126	12.254	12.248	0.006	97	1957204	25.0	23.9	
131 1,3,5-Trimethylbenzene	105	12.321	12.321	0.000	94	6833167	25.0	24.4	
132 4-Chlorotoluene	126	12.346	12.346	0.000	97	2051366	25.0	23.9	
133 tert-Butylbenzene	134	12.565	12.565	0.000	93	1579695	25.0	24.4	
134 Pentachloroethane	167	12.596	12.596	0.000	90	1296195	25.0	26.0	
135 1,2,4-Trimethylbenzene	105	12.608	12.608	0.000	97	7068513	25.0	24.5	
136 sec-Butylbenzene	105	12.730	12.730	0.000	94	8601972	25.0	24.3	
137 1,3-Dichlorobenzene	146	12.827	12.827	0.000	98	4095253	25.0	24.2	
138 4-Isopropyltoluene	119	12.846	12.846	0.000	97	7792341	25.0	24.4	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.882	0.000	94	993545	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.901	12.901	0.000	95	4163217	25.0	24.2	
141 1,2,3-Trimethylbenzene	120	12.919	12.919	0.000	98	3231668	25.0	24.4	
142 Benzyl chloride	126	12.986	12.986	0.000	98	628233	25.0	27.3	
145 p-Diethylbenzene	119	13.120	13.120	0.000	94	4817751	25.0	24.4	
143 n-Butylbenzene	92	13.138	13.138	0.000	96	3804524	25.0	24.6	
144 1,2-Dichlorobenzene	146	13.169	13.169	0.000	99	3749917	25.0	24.2	
148 1,2-Dibromo-3-Chloropropane	155	13.717	13.717	0.000	90	217672	25.0	26.8	
149 1,3,5-Trichlorobenzene	180	13.845	13.845	0.000	98	3085921	25.0	24.6	
150 1,2,4-Trichlorobenzene	180	14.272	14.272	0.000	94	2533868	25.0	26.2	
151 Hexachlorobutadiene	225	14.364	14.364	0.000	96	1240392	25.0	23.9	
152 Naphthalene	128	14.455	14.455	0.000	97	4003750	25.0	27.9	
153 1,2,3-Trichlorobenzene	180	14.601	14.601	0.000	96	1895775	25.0	26.8	
154 2-Methylnaphthalene	142	15.217	15.217	0.000	92	1472490	25.0	38.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00107

Amount Added: 25.00

Units: uL

MSV_LL_#2_826_00117

Amount Added: 25.00

Units: uL

MSV_LL_GAS826_00182

Amount Added: 25.00

Units: uL

MSV_29_826ISS_00052

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 14-Dec-2023 10:50:38

Chrom Revision: 2.3 30-Nov-2023 17:25:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D

Injection Date: 11-Dec-2023 23:41:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: IC std7 25

Worklist Smp#: 19

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

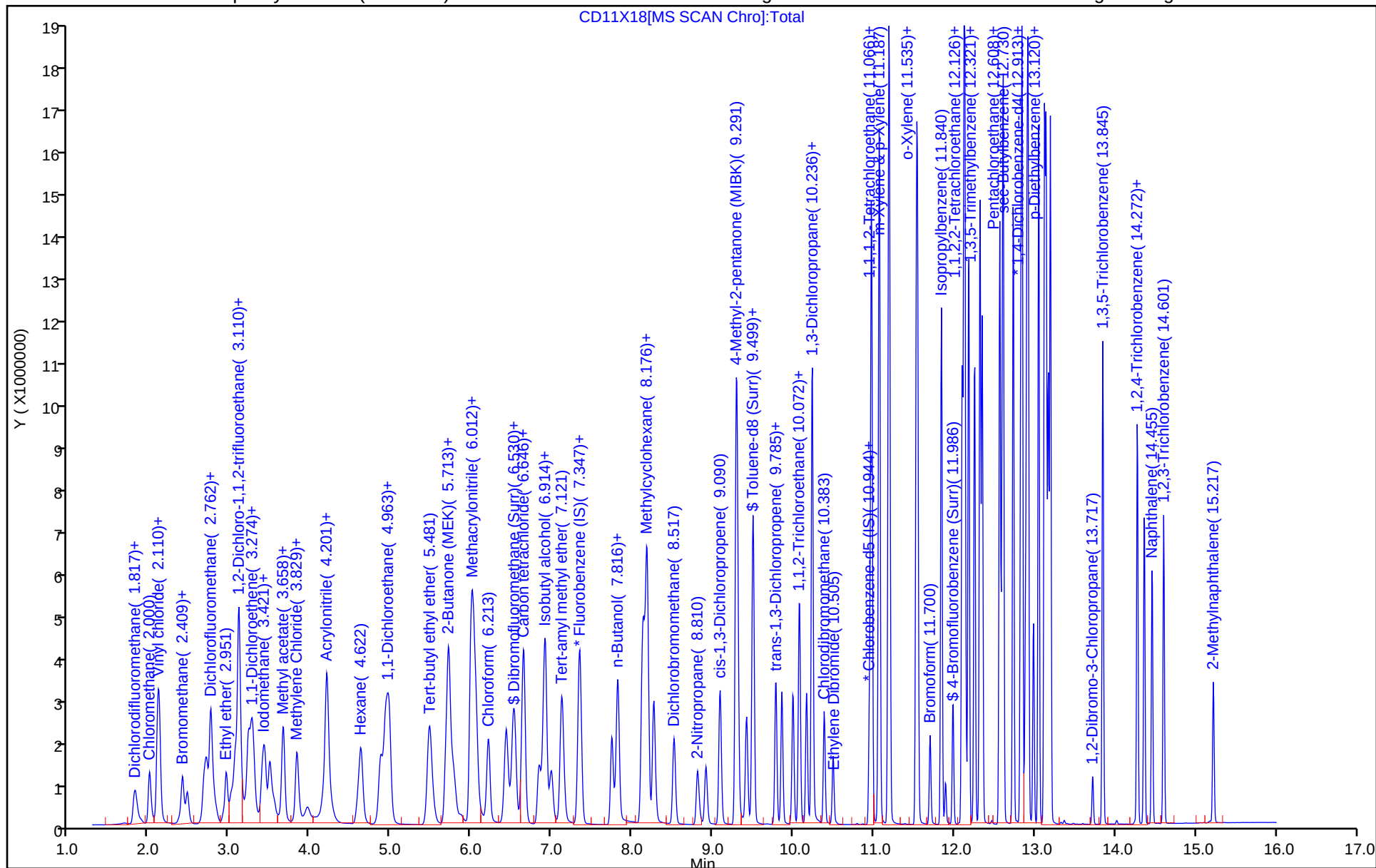
ALS Bottle#: 18

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

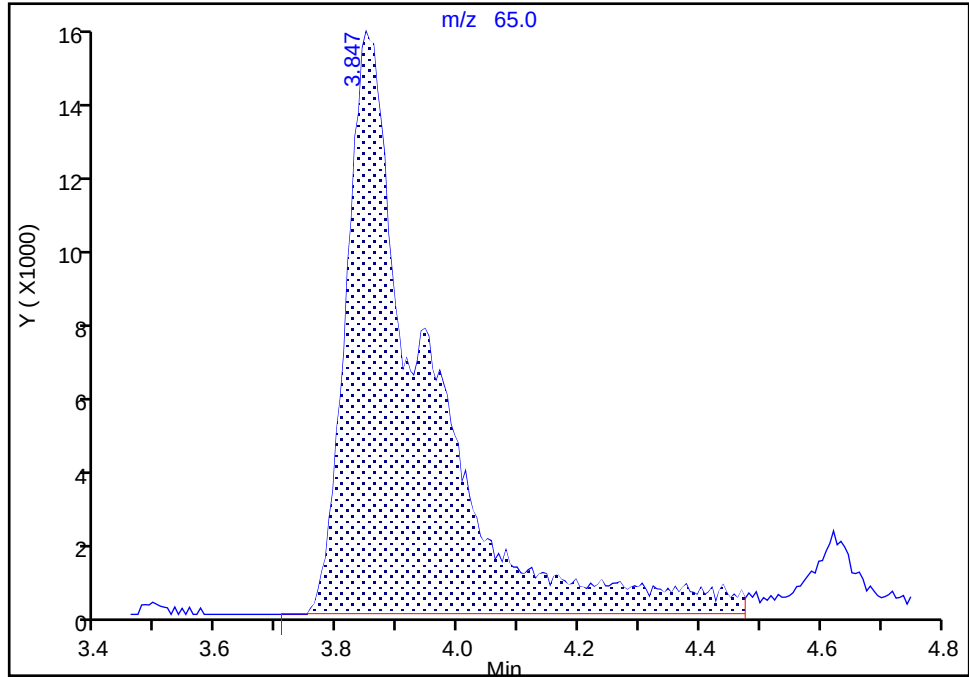
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Injection Date: 11-Dec-2023 23:41:30 Instrument ID: 10193
Lims ID: IC std7 25
Client ID:
Operator ID: gaw91131 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 31 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

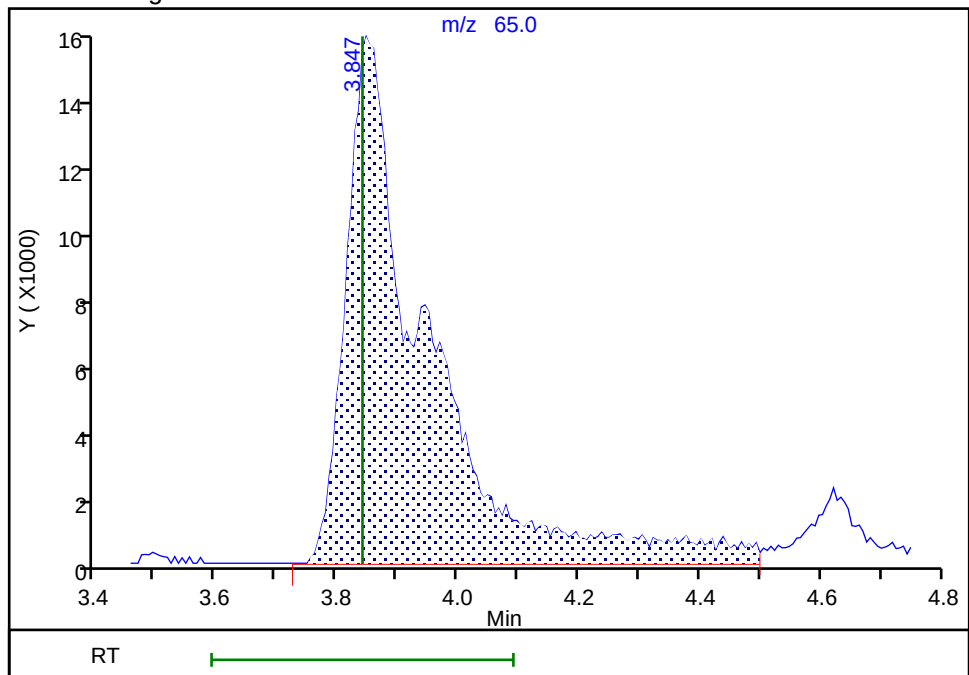
RT: 3.85
Area: 144238
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.85
Area: 144957
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 14-Dec-2023 10:35:59 -05:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC

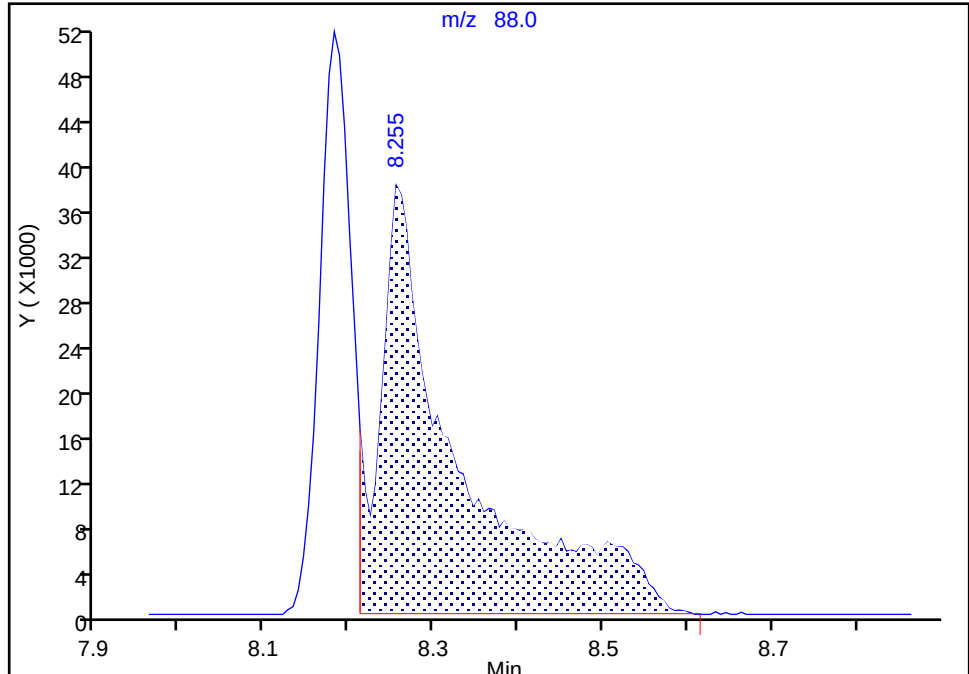
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Injection Date: 11-Dec-2023 23:41:30 Instrument ID: 10193
Lims ID: IC std7 25
Client ID:
Operator ID: gaw91131 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

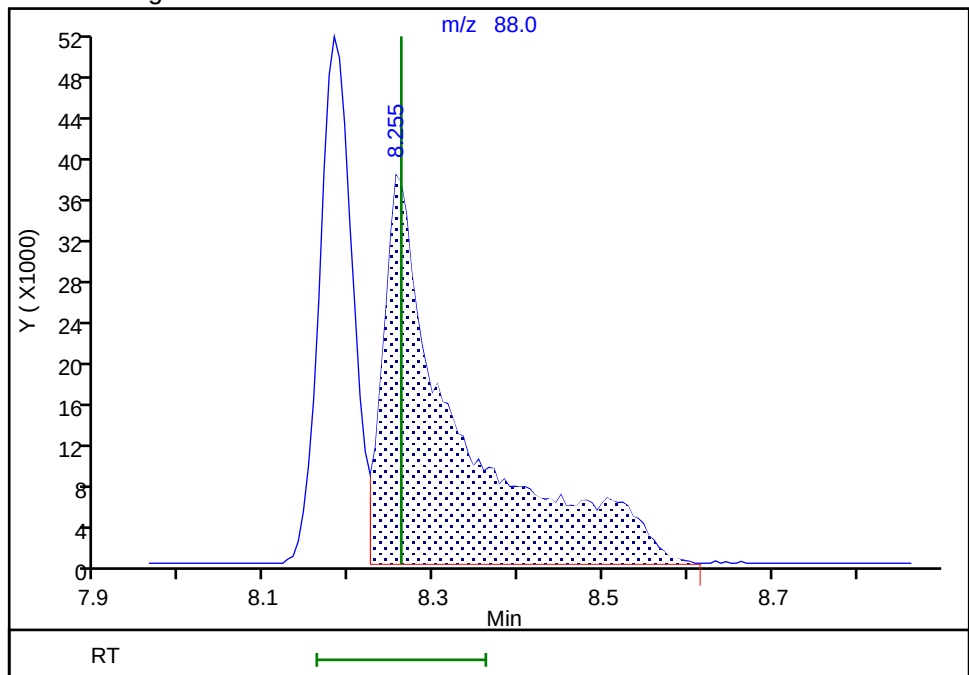
RT: 8.26
Area: 246699
Amount: 1178.0025
Amount Units: ug/l

Processing Integration Results



RT: 8.26
Area: 236766
Amount: 1165.3718
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 11:10:53 -05:00:00 (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

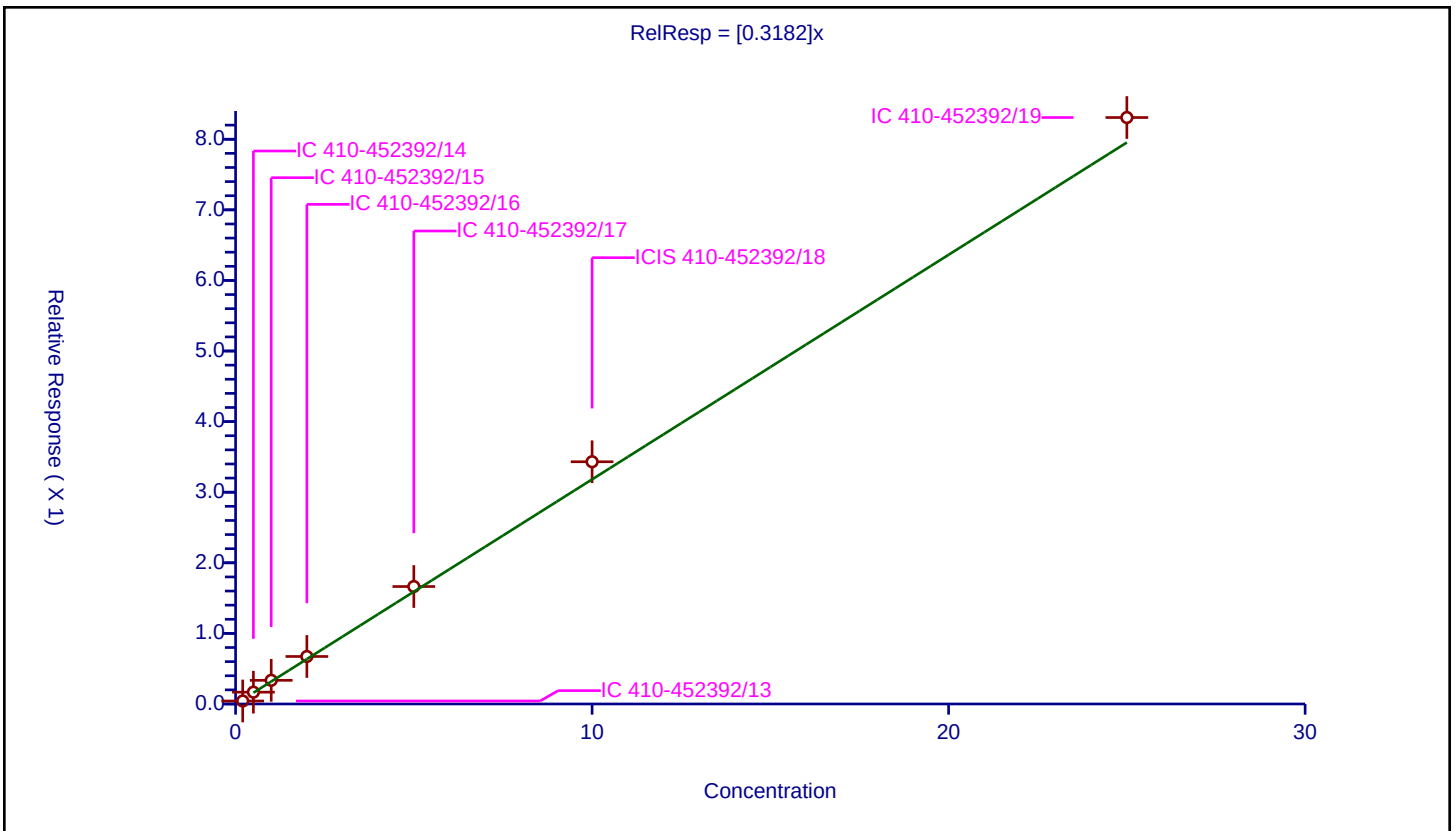
Curve Coefficients

Intercept: 0
 Slope: 0.3182

Error Coefficients

Standard Error: 791000
 Relative Standard Error: 14.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.042493	10.0	2047394.0	0.212465	Y
2	IC 410-452392/14	0.5	0.167352	10.0	2025434.0	0.334704	Y
3	IC 410-452392/15	1.0	0.335379	10.0	2044405.0	0.335379	Y
4	IC 410-452392/16	2.0	0.672839	10.0	2031703.0	0.33642	Y
5	IC 410-452392/17	5.0	1.663898	10.0	2042373.0	0.33278	Y
6	ICIS 410-452392/18	10.0	3.43148	10.0	2054434.0	0.343148	Y
7	IC 410-452392/19	25.0	8.307765	10.0	2125786.0	0.332311	Y



Calibration

/ Chloromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

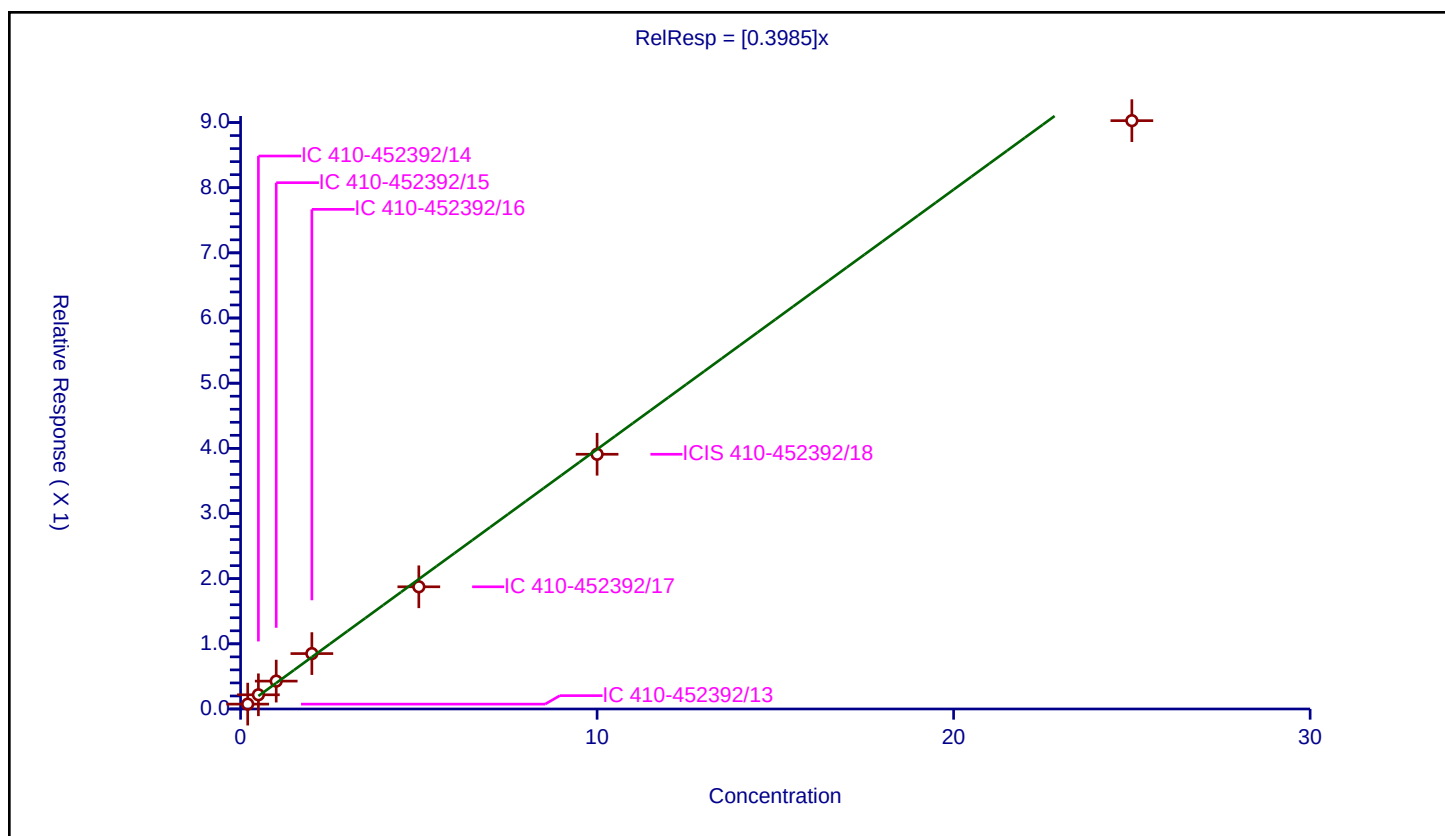
Curve Coefficients

Intercept: 0
Slope: 0.3985

Error Coefficients

Standard Error: 867000
Relative Standard Error: 7.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.074851	10.0	2047394.0	0.374256	Y
2	IC 410-452392/14	0.5	0.217795	10.0	2025434.0	0.435591	Y
3	IC 410-452392/15	1.0	0.42766	10.0	2044405.0	0.42766	Y
4	IC 410-452392/16	2.0	0.850011	10.0	2031703.0	0.425006	Y
5	IC 410-452392/17	5.0	1.87548	10.0	2042373.0	0.375096	Y
6	ICIS 410-452392/18	10.0	3.909189	10.0	2054434.0	0.390919	Y
7	IC 410-452392/19	25.0	9.02867	10.0	2125786.0	0.361147	Y



Calibration

/ Vinyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

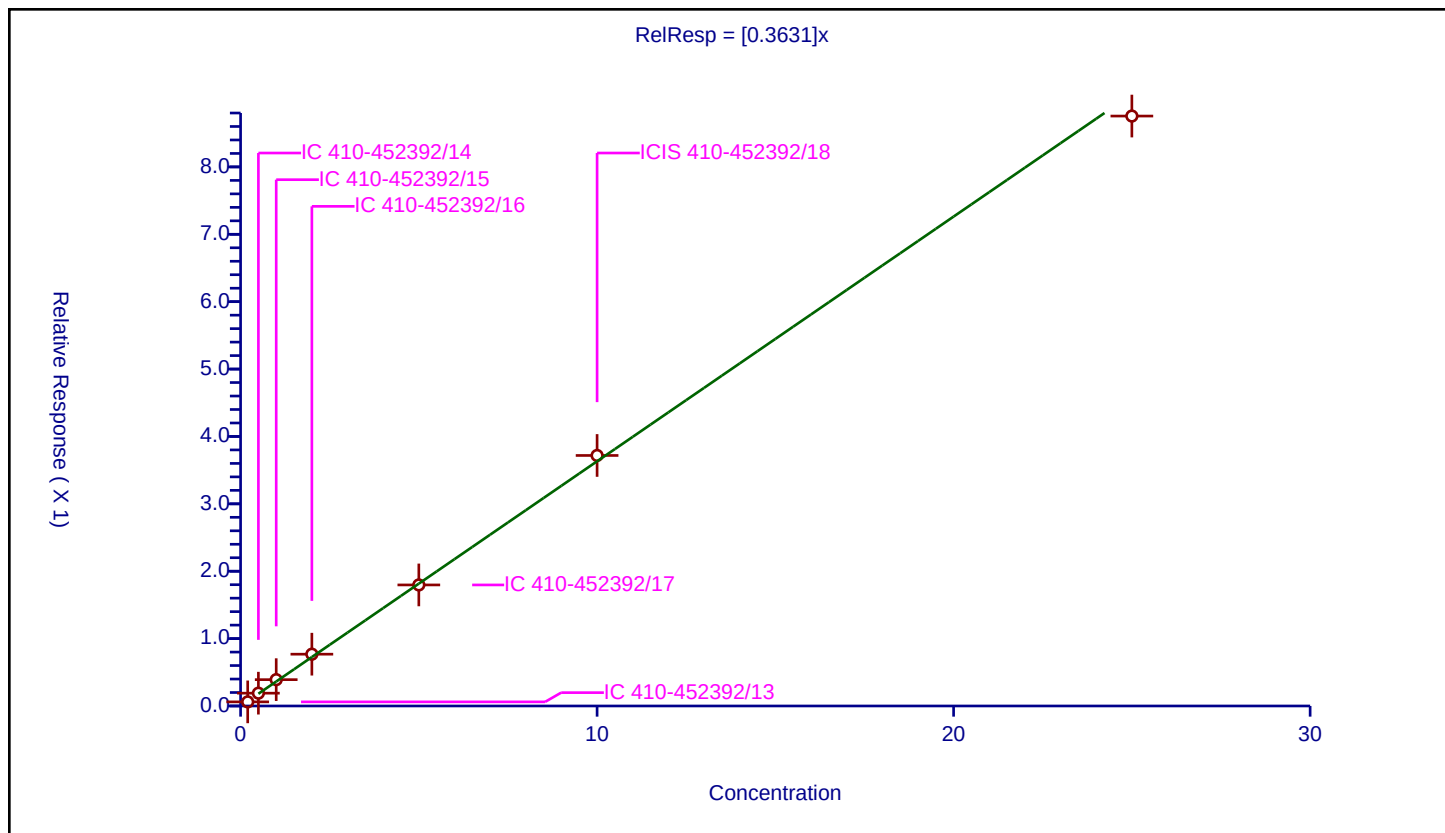
Curve Coefficients

Intercept: 0
Slope: 0.3631

Error Coefficients

Standard Error: 838000
Relative Standard Error: 8.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.060965	10.0	2047394.0	0.304827	Y
2	IC 410-452392/14	0.5	0.19029	10.0	2025434.0	0.38058	Y
3	IC 410-452392/15	1.0	0.390857	10.0	2044405.0	0.390857	Y
4	IC 410-452392/16	2.0	0.768917	10.0	2031703.0	0.384458	Y
5	IC 410-452392/17	5.0	1.796523	10.0	2042373.0	0.359305	Y
6	ICIS 410-452392/18	10.0	3.717657	10.0	2054434.0	0.371766	Y
7	IC 410-452392/19	25.0	8.754926	10.0	2125786.0	0.350197	Y



Calibration

/ Butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

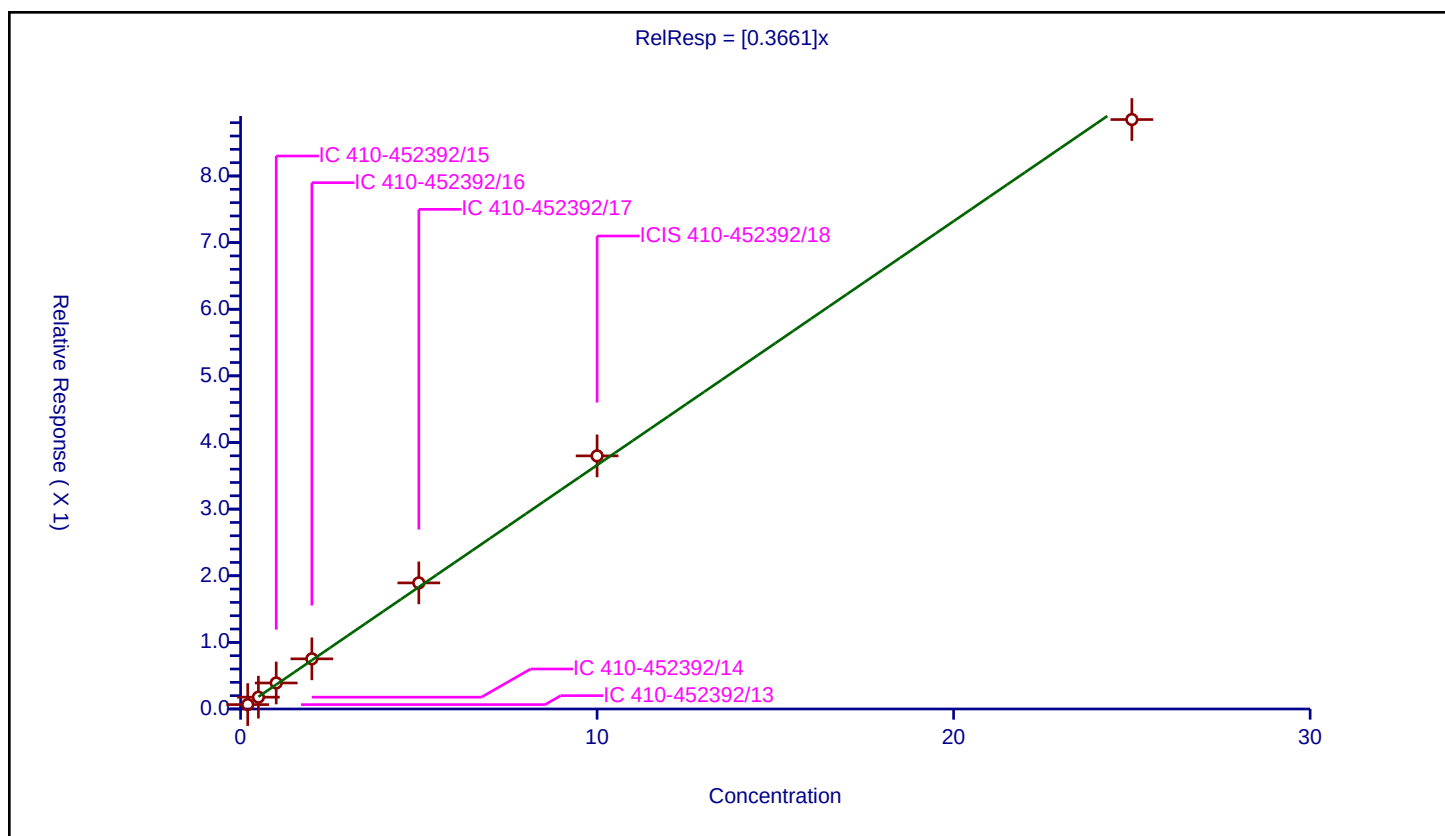
Curve Coefficients

Intercept: 0
Slope: 0.3661

Error Coefficients

Standard Error: 849000
Relative Standard Error: 5.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.065674	10.0	2047394.0	0.328369	Y
2	IC 410-452392/14	0.5	0.177369	10.0	2025434.0	0.354739	Y
3	IC 410-452392/15	1.0	0.390564	10.0	2044405.0	0.390564	Y
4	IC 410-452392/16	2.0	0.752851	10.0	2031703.0	0.376426	Y
5	IC 410-452392/17	5.0	1.892362	10.0	2042373.0	0.378472	Y
6	ICIS 410-452392/18	10.0	3.798973	10.0	2054434.0	0.379897	Y
7	IC 410-452392/19	25.0	8.847179	10.0	2125786.0	0.353887	Y



Calibration

/ Bromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

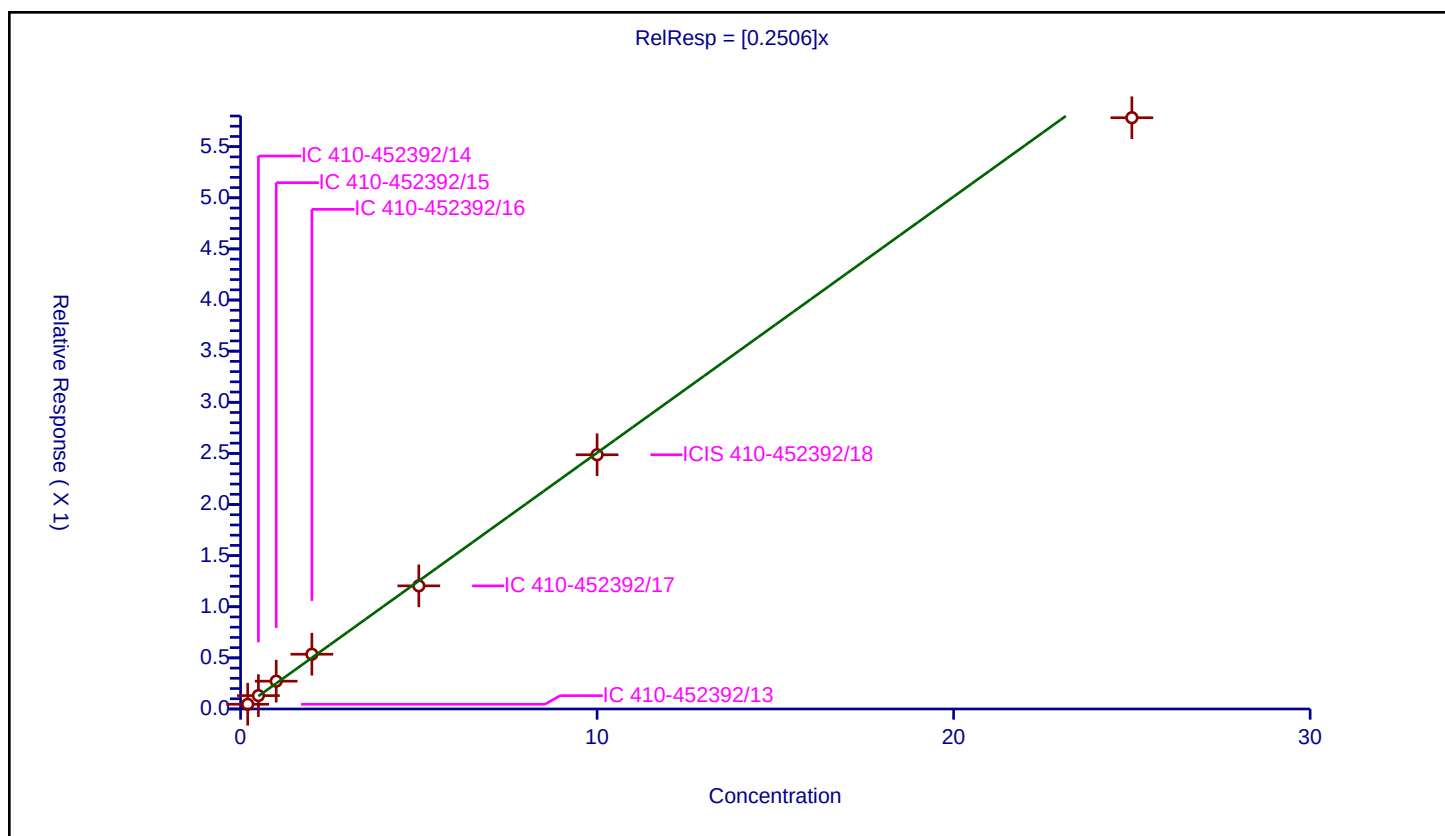
Curve Coefficients

Intercept: 0
 Slope: 0.2506

Error Coefficients

Standard Error: 555000
 Relative Standard Error: 6.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.046273	10.0	2047394.0	0.231367	Y
2	IC 410-452392/14	0.5	0.130821	10.0	2025434.0	0.261643	Y
3	IC 410-452392/15	1.0	0.272285	10.0	2044405.0	0.272285	Y
4	IC 410-452392/16	2.0	0.535521	10.0	2031703.0	0.267761	Y
5	IC 410-452392/17	5.0	1.204329	10.0	2042373.0	0.240866	Y
6	ICIS 410-452392/18	10.0	2.486549	10.0	2054434.0	0.248655	Y
7	IC 410-452392/19	25.0	5.783287	10.0	2125786.0	0.231331	Y



Calibration

/ Chloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

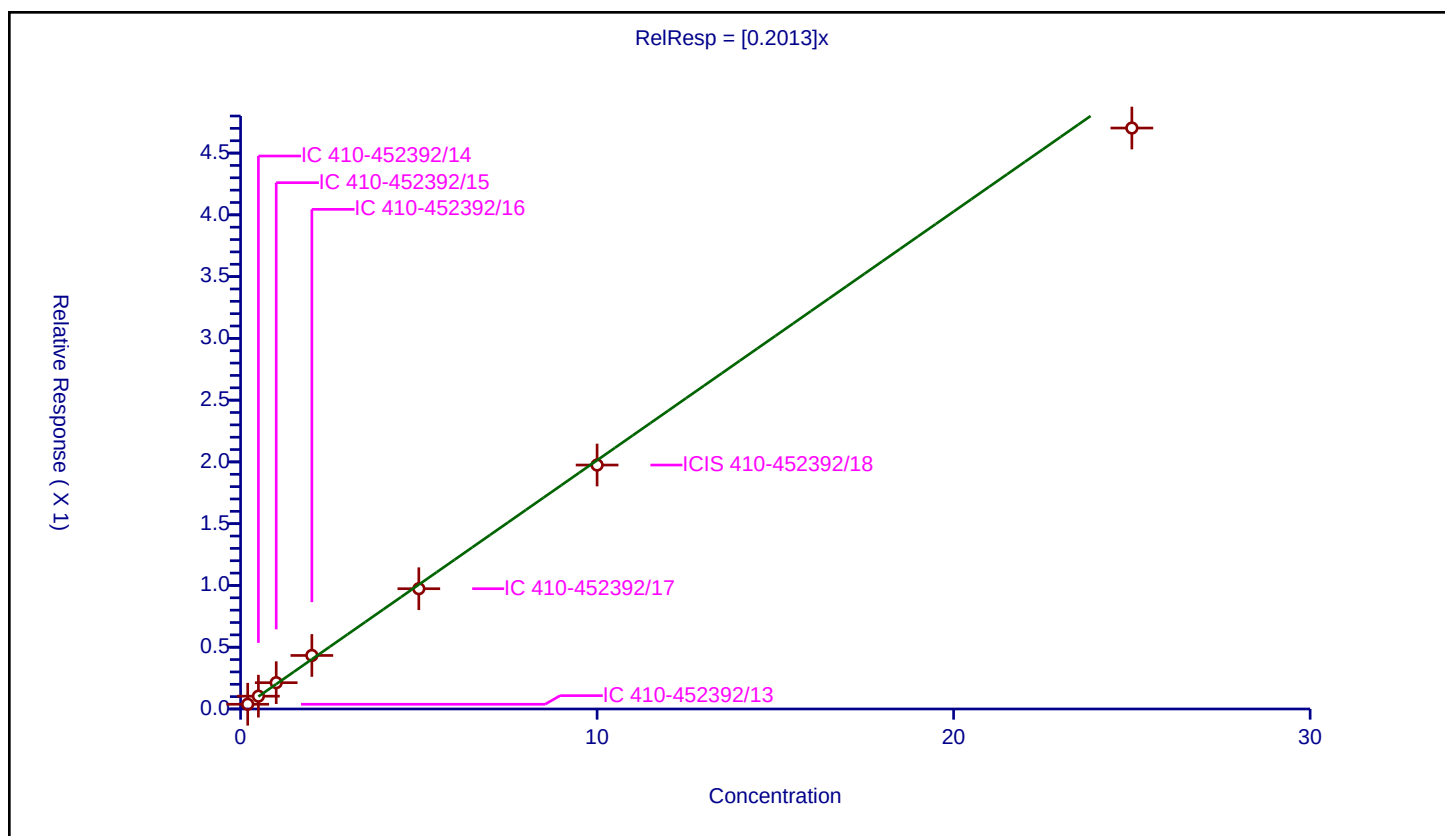
Curve Coefficients

Intercept: 0
Slope: 0.2013

Error Coefficients

Standard Error: 450000
Relative Standard Error: 5.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.038385	10.0	2047394.0	0.191927	Y
2	IC 410-452392/14	0.5	0.103652	10.0	2025434.0	0.207304	Y
3	IC 410-452392/15	1.0	0.213016	10.0	2044405.0	0.213016	Y
4	IC 410-452392/16	2.0	0.433351	10.0	2031703.0	0.216675	Y
5	IC 410-452392/17	5.0	0.973715	10.0	2042373.0	0.194743	Y
6	ICIS 410-452392/18	10.0	1.974773	10.0	2054434.0	0.197477	Y
7	IC 410-452392/19	25.0	4.702698	10.0	2125786.0	0.188108	Y



Calibration

/ Dichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

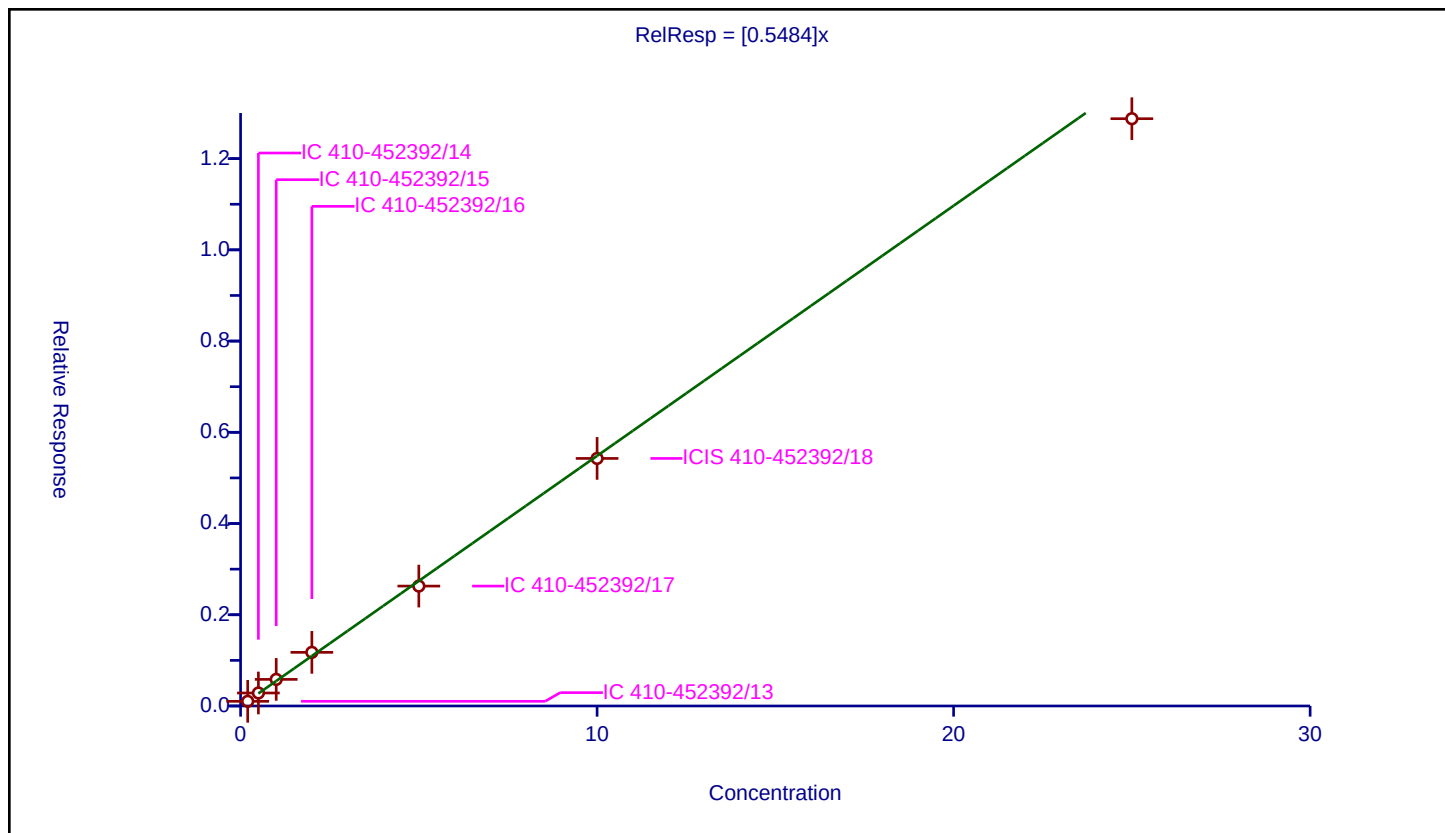
Curve Coefficients

Intercept: 0
 Slope: 0.5484

Error Coefficients

Standard Error: 1230000
 Relative Standard Error: 5.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.102779	10.0	2047394.0	0.513897	Y
2	IC 410-452392/14	0.5	0.284897	10.0	2025434.0	0.569794	Y
3	IC 410-452392/15	1.0	0.58325	10.0	2044405.0	0.58325	Y
4	IC 410-452392/16	2.0	1.176004	10.0	2031703.0	0.588002	Y
5	IC 410-452392/17	5.0	2.628903	10.0	2042373.0	0.525781	Y
6	ICIS 410-452392/18	10.0	5.427519	10.0	2054434.0	0.542752	Y
7	IC 410-452392/19	25.0	12.875623	10.0	2125786.0	0.515025	Y



Calibration

/ Trichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

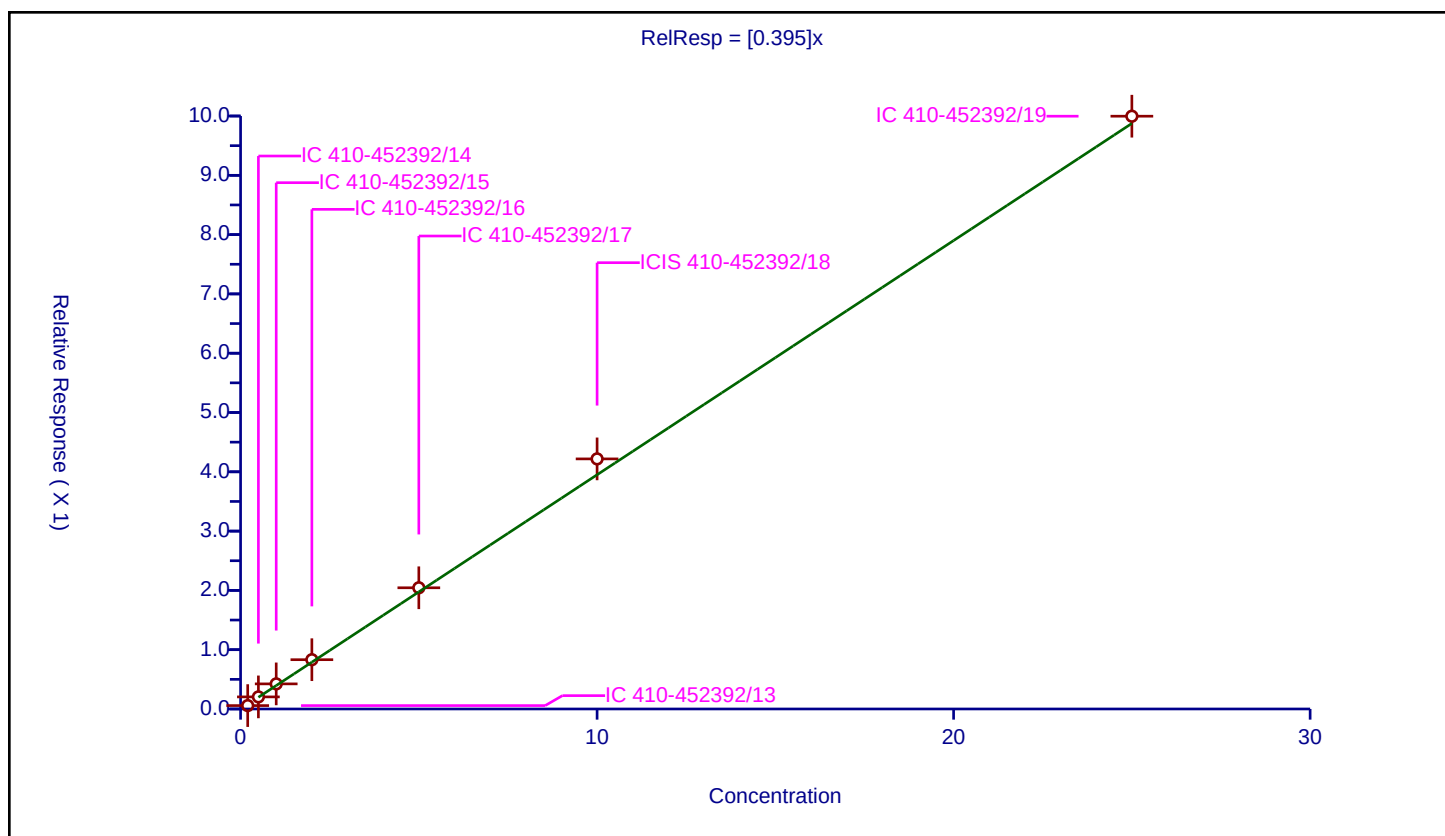
Curve Coefficients

Intercept: 0
Slope: 0.395

Error Coefficients

Standard Error: 956000
Relative Standard Error: 12.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.057449	10.0	2047394.0	0.287243	Y
2	IC 410-452392/14	0.5	0.204016	10.0	2025434.0	0.408031	Y
3	IC 410-452392/15	1.0	0.423556	10.0	2044405.0	0.423556	Y
4	IC 410-452392/16	2.0	0.831342	10.0	2031703.0	0.415671	Y
5	IC 410-452392/17	5.0	2.04399	10.0	2042373.0	0.408798	Y
6	ICIS 410-452392/18	10.0	4.217809	10.0	2054434.0	0.421781	Y
7	IC 410-452392/19	25.0	9.996985	10.0	2125786.0	0.399879	Y



Calibration

/ Ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

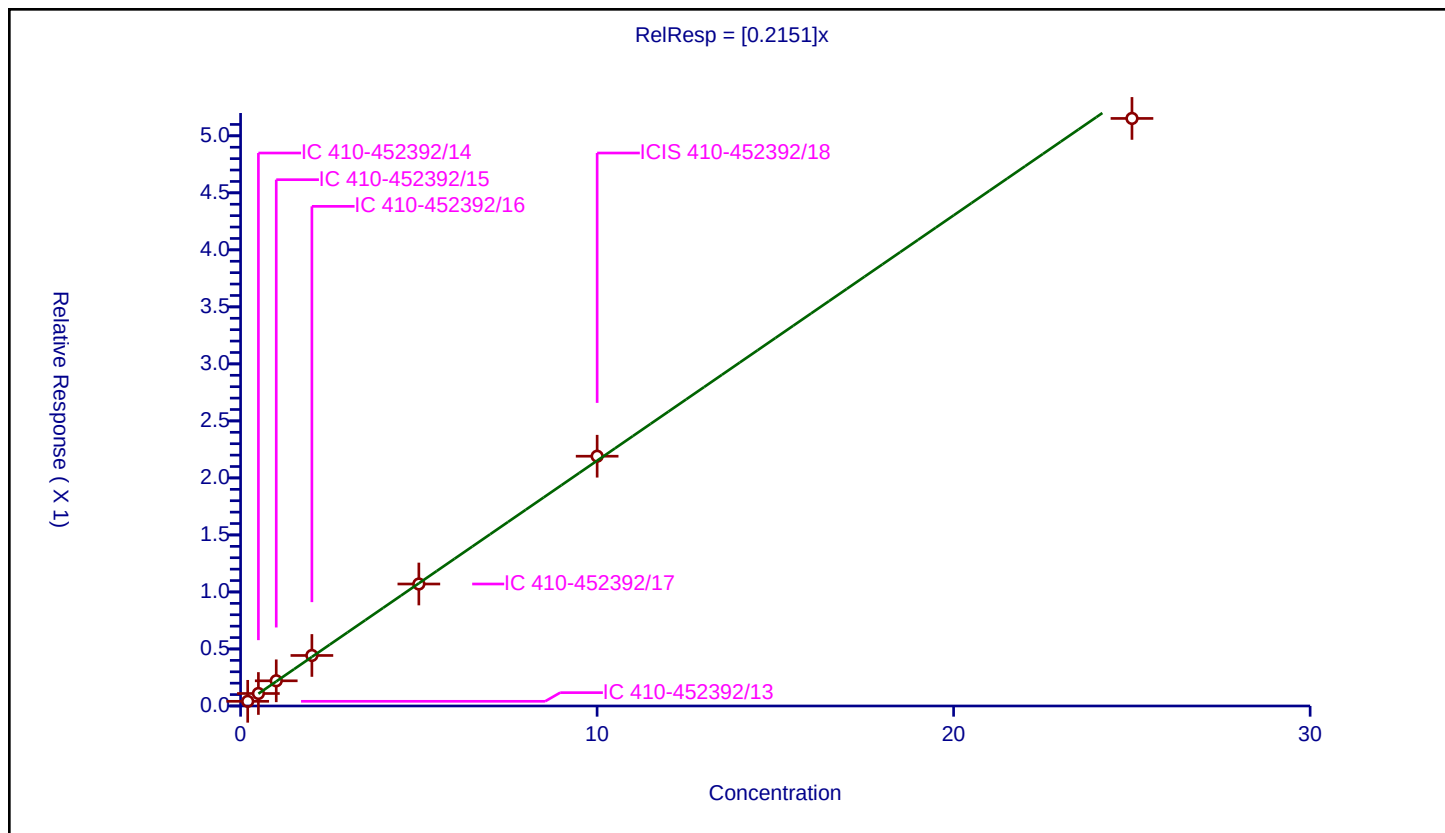
Curve Coefficients

Intercept: 0
Slope: 0.2151

Error Coefficients

Standard Error: 493000
Relative Standard Error: 3.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.200028	0.041077	10.0	2047394.0	0.205355	Y
2	IC 410-452392/14	0.500069	0.109586	10.0	2025434.0	0.219142	Y
3	IC 410-452392/15	1.000139	0.220935	10.0	2044405.0	0.220904	Y
4	IC 410-452392/16	2.000277	0.442993	10.0	2031703.0	0.221466	Y
5	IC 410-452392/17	5.000693	1.069677	10.0	2042373.0	0.213906	Y
6	ICIS 410-452392/18	10.001386	2.190253	10.0	2054434.0	0.218995	Y
7	IC 410-452392/19	25.003465	5.152504	10.0	2125786.0	0.206072	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

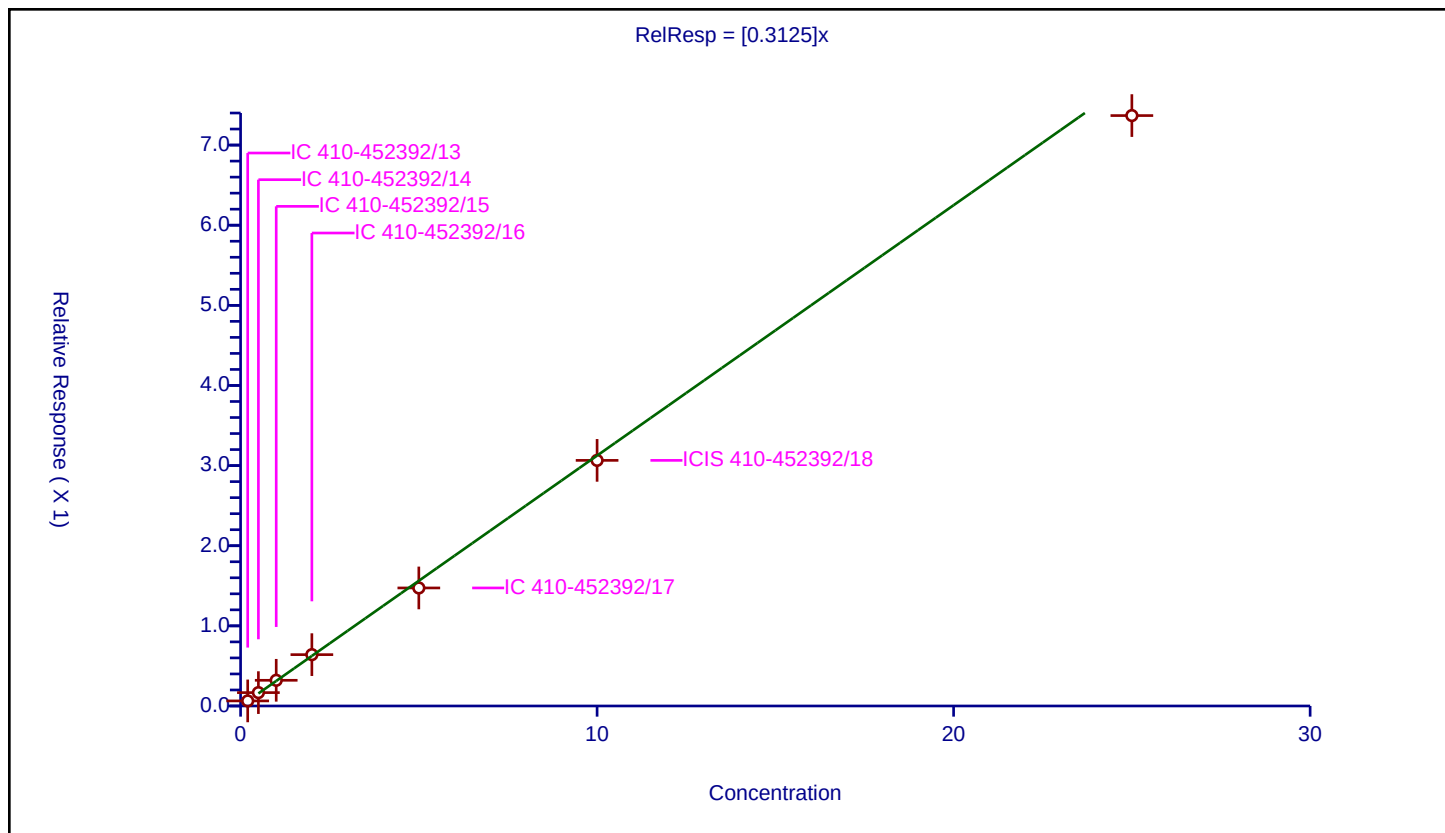
Curve Coefficients

Intercept: 0
 Slope: 0.3125

Error Coefficients

Standard Error: 703000
 Relative Standard Error: 4.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.063427	10.0	2047394.0	0.317135	Y
2	IC 410-452392/14	0.5	0.166735	10.0	2025434.0	0.333469	Y
3	IC 410-452392/15	1.0	0.320543	10.0	2044405.0	0.320543	Y
4	IC 410-452392/16	2.0	0.640699	10.0	2031703.0	0.320349	Y
5	IC 410-452392/17	5.0	1.472958	10.0	2042373.0	0.294592	Y
6	ICIS 410-452392/18	10.0	3.065068	10.0	2054434.0	0.306507	Y
7	IC 410-452392/19	25.0	7.368136	10.0	2125786.0	0.294725	Y



Calibration

/ Acrolein

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

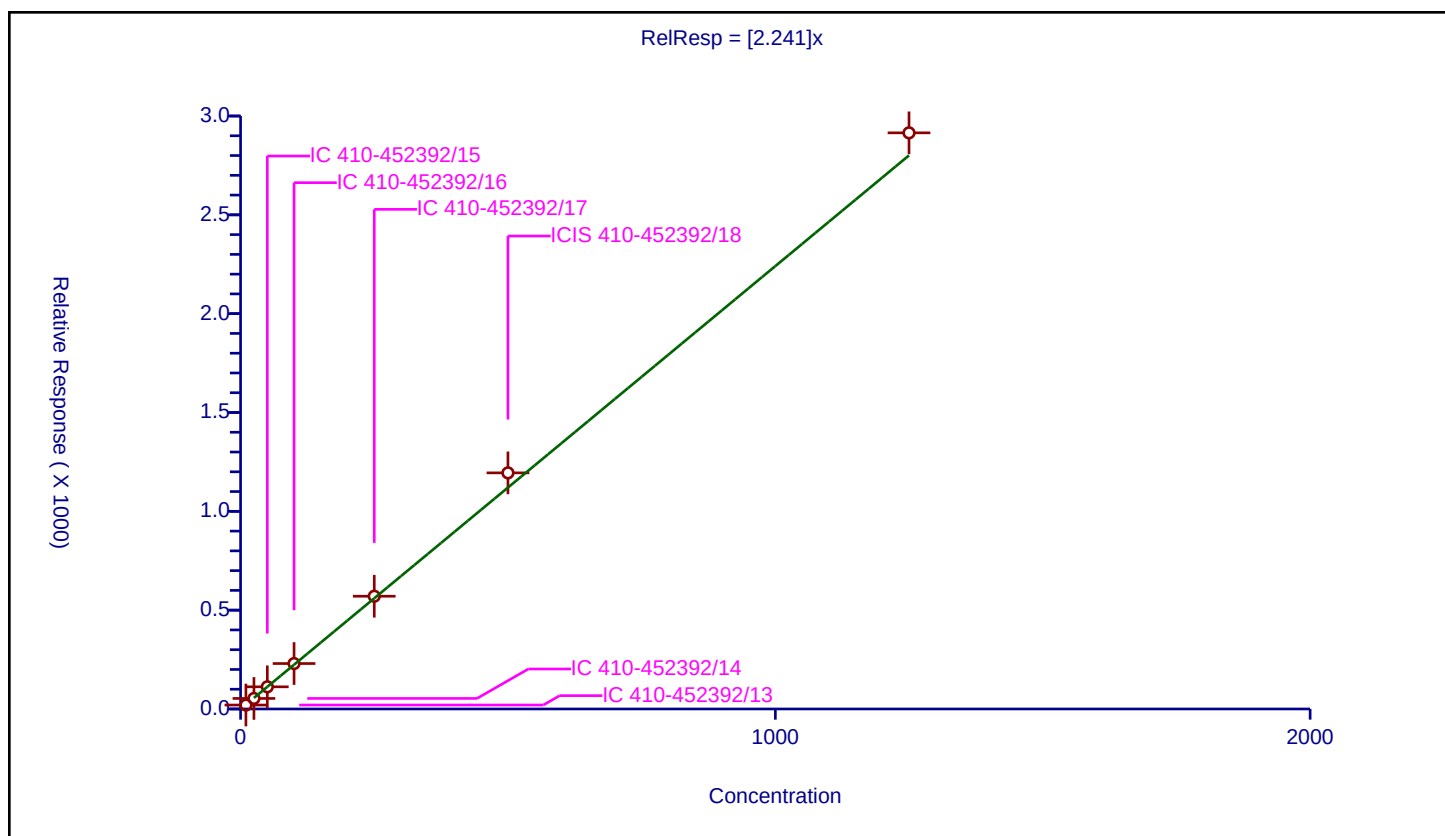
Curve Coefficients

Intercept: 0
Slope: 2.241

Error Coefficients

Standard Error: 3780000
Relative Standard Error: 5.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	9.999429	20.017129	50.0	144204.0	2.001827	Y
2	IC 410-452392/14	24.998572	53.415703	50.0	141435.0	2.13675	Y
3	IC 410-452392/15	49.997145	112.137583	50.0	137066.0	2.24288	Y
4	IC 410-452392/16	99.99429	229.969858	50.0	135361.0	2.29983	Y
5	IC 410-452392/17	249.985725	570.544659	50.0	137958.0	2.282309	Y
6	ICIS 410-452392/18	499.97145	1194.577589	50.0	140657.0	2.389292	Y
7	IC 410-452392/19	1249.928624	2914.845782	50.0	144957.0	2.33201	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

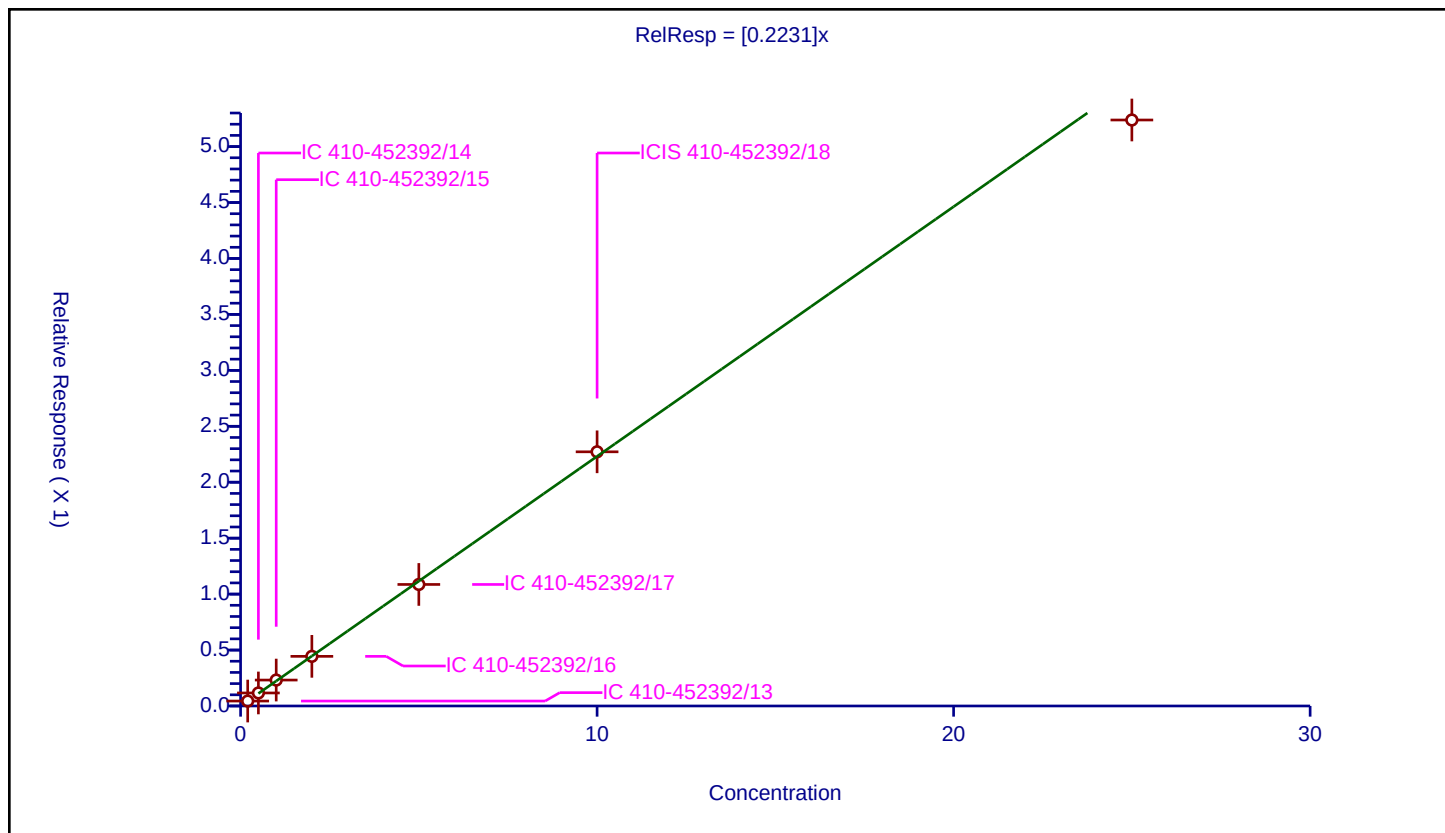
Curve Coefficients

Intercept: 0
 Slope: 0.2231

Error Coefficients

Standard Error: 503000
 Relative Standard Error: 3.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.044256	10.0	2047394.0	0.221281	Y
2	IC 410-452392/14	0.5	0.116518	10.0	2025434.0	0.233036	Y
3	IC 410-452392/15	1.0	0.231852	10.0	2044405.0	0.231852	Y
4	IC 410-452392/16	2.0	0.443751	10.0	2031703.0	0.221875	Y
5	IC 410-452392/17	5.0	1.086163	10.0	2042373.0	0.217233	Y
6	ICIS 410-452392/18	10.0	2.271808	10.0	2054434.0	0.227181	Y
7	IC 410-452392/19	25.0	5.237507	10.0	2125786.0	0.2095	Y



Calibration

/ Acetone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

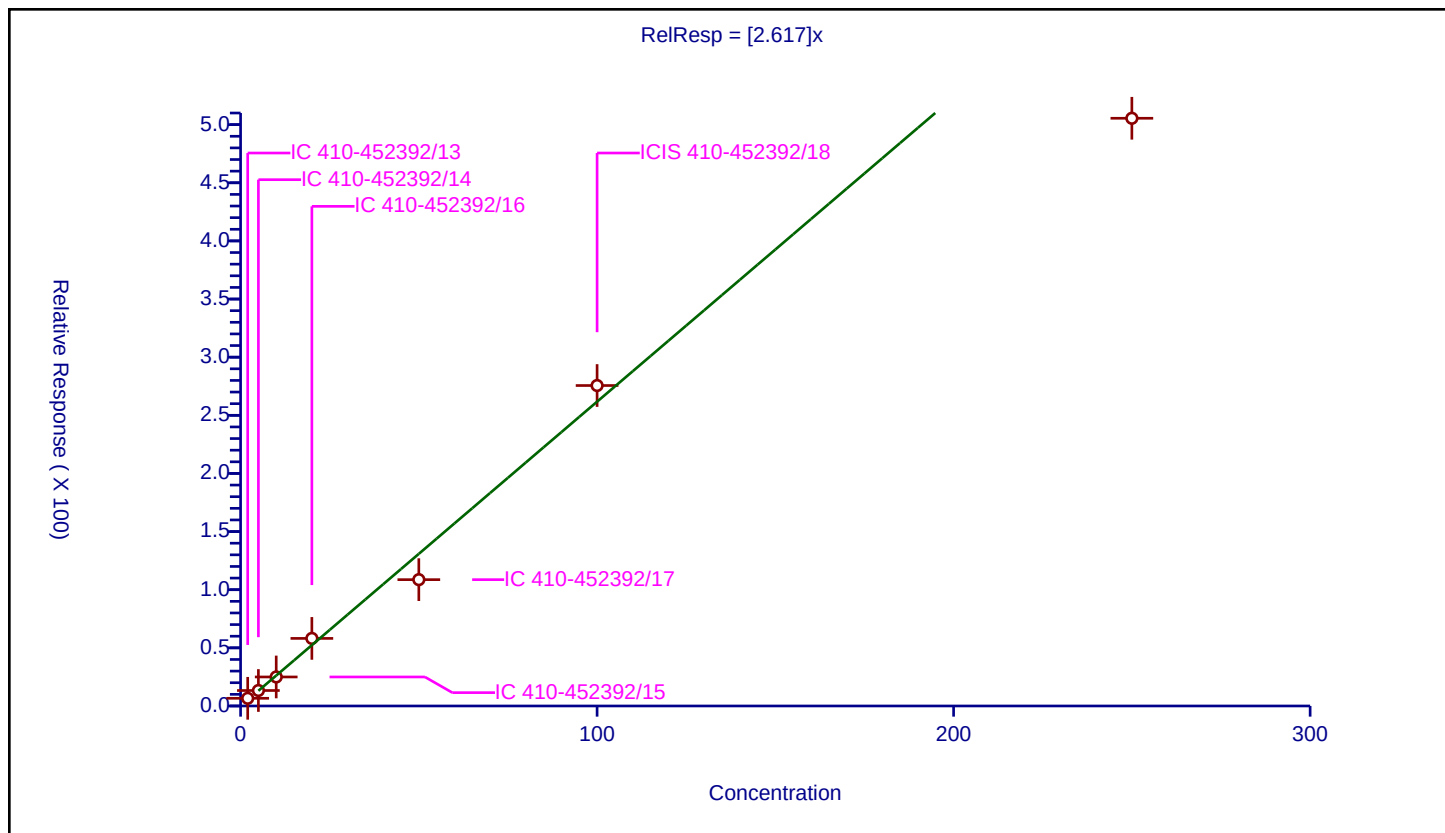
Curve Coefficients

Intercept: 0
Slope: 2.617

Error Coefficients

Standard Error: 691000
Relative Standard Error: 16.7
Correlation Coefficient: 0.984
Coefficient of Determination (Adjusted): 0.956

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	2.0	6.608693	50.0	144204.0	3.304347	Y
2	IC 410-452392/14	5.0	13.306466	50.0	141435.0	2.661293	Y
3	IC 410-452392/15	10.0	24.975559	50.0	137066.0	2.497556	Y
4	IC 410-452392/16	20.0	58.140085	50.0	135361.0	2.907004	Y
5	IC 410-452392/17	50.0	108.659157	50.0	137958.0	2.173183	Y
6	ICIS 410-452392/18	100.0	275.620837	50.0	140657.0	2.756208	Y
7	IC 410-452392/19	250.0	505.480591	50.0	144957.0	2.021922	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

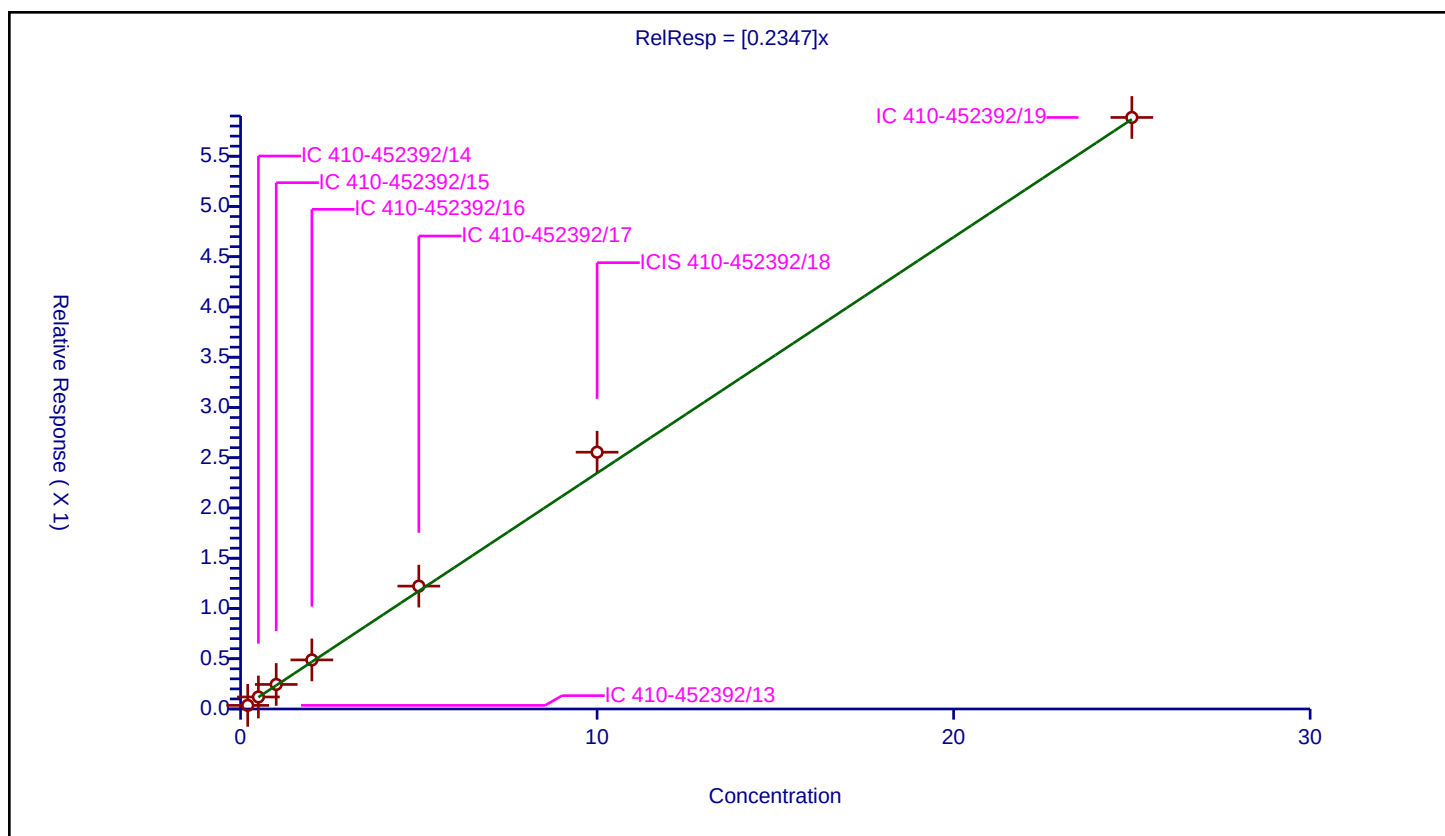
Curve Coefficients

Intercept: 0
Slope: 0.2347

Error Coefficients

Standard Error: 565000
Relative Standard Error: 10.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.036031	10.0	2047394.0	0.180156	Y
2	IC 410-452392/14	0.5	0.119495	10.0	2025434.0	0.238991	Y
3	IC 410-452392/15	1.0	0.244355	10.0	2044405.0	0.244355	Y
4	IC 410-452392/16	2.0	0.488226	10.0	2031703.0	0.244113	Y
5	IC 410-452392/17	5.0	1.222431	10.0	2042373.0	0.244486	Y
6	ICIS 410-452392/18	10.0	2.554859	10.0	2054434.0	0.255486	Y
7	IC 410-452392/19	25.0	5.885795	10.0	2125786.0	0.235432	Y



Calibration

/ Iodomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

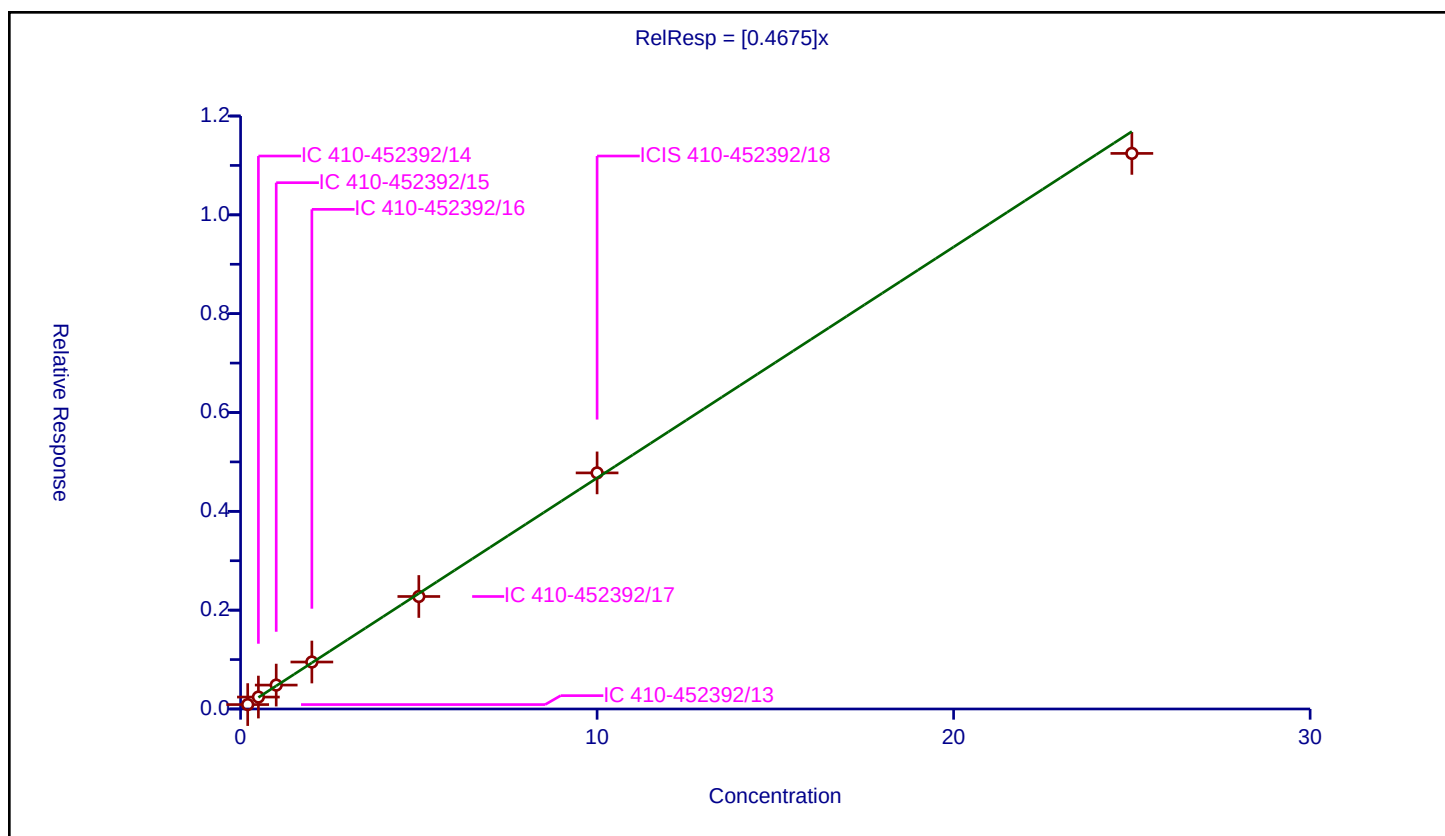
Curve Coefficients

Intercept: 0
Slope: 0.4675

Error Coefficients

Standard Error: 1080000
Relative Standard Error: 3.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.089397	10.0	2047394.0	0.446983	Y
2	IC 410-452392/14	0.5	0.241593	10.0	2025434.0	0.483185	Y
3	IC 410-452392/15	1.0	0.48394	10.0	2044405.0	0.48394	Y
4	IC 410-452392/16	2.0	0.950587	10.0	2031703.0	0.475293	Y
5	IC 410-452392/17	5.0	2.276724	10.0	2042373.0	0.455345	Y
6	ICIS 410-452392/18	10.0	4.777841	10.0	2054434.0	0.477784	Y
7	IC 410-452392/19	25.0	11.24315	10.0	2125786.0	0.449726	Y



Calibration

/ Ethyl bromide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

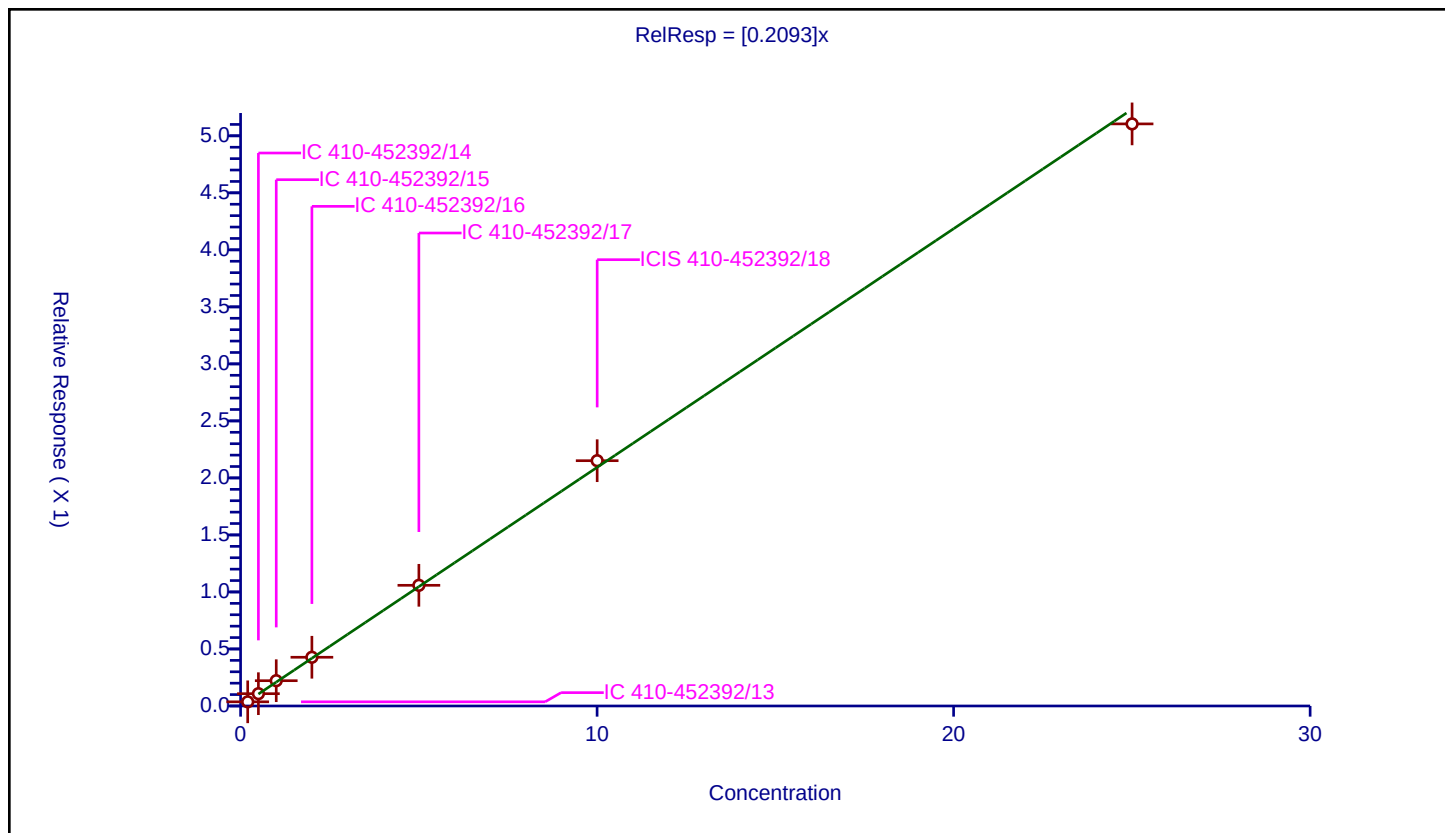
Curve Coefficients

Intercept: 0
 Slope: 0.2093

Error Coefficients

Standard Error: 488000
 Relative Standard Error: 6.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.200049	0.036588	10.0	2047394.0	0.182895	Y
2	IC 410-452392/14	0.500122	0.107863	10.0	2025434.0	0.215674	Y
3	IC 410-452392/15	1.000244	0.221913	10.0	2044405.0	0.221859	Y
4	IC 410-452392/16	2.000488	0.427287	10.0	2031703.0	0.213591	Y
5	IC 410-452392/17	5.00122	1.058391	10.0	2042373.0	0.211627	Y
6	ICIS 410-452392/18	10.00244	2.150991	10.0	2054434.0	0.215047	Y
7	IC 410-452392/19	25.0061	5.104686	10.0	2125786.0	0.204138	Y



Calibration

/ Carbon disulfide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

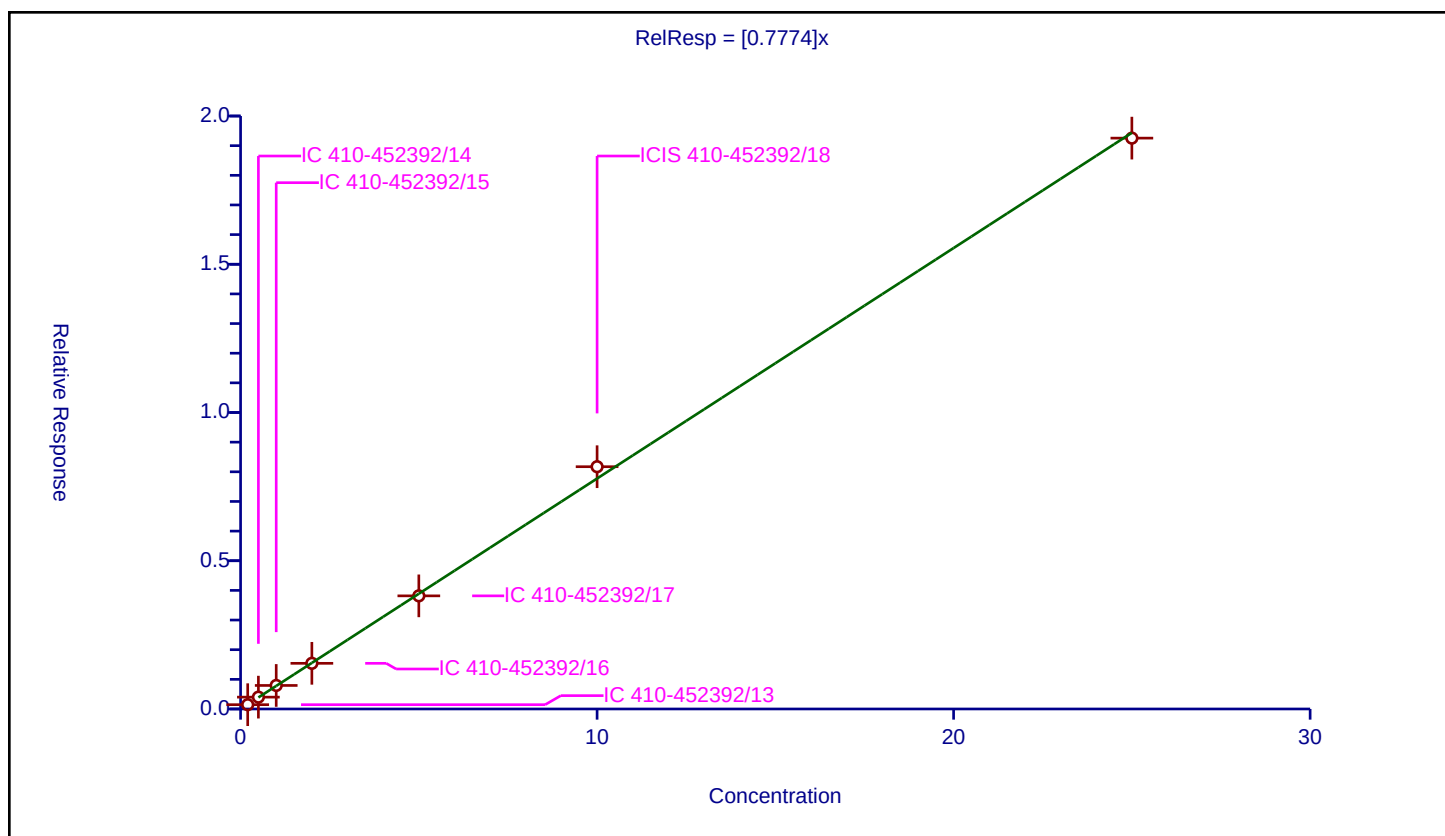
Curve Coefficients

Intercept: 0
 Slope: 0.7774

Error Coefficients

Standard Error: 1840000
 Relative Standard Error: 3.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.145292	10.0	2047394.0	0.72646	Y
2	IC 410-452392/14	0.5	0.400028	10.0	2025434.0	0.800056	Y
3	IC 410-452392/15	1.0	0.794143	10.0	2044405.0	0.794143	Y
4	IC 410-452392/16	2.0	1.540648	10.0	2031703.0	0.770324	Y
5	IC 410-452392/17	5.0	3.815958	10.0	2042373.0	0.763192	Y
6	ICIS 410-452392/18	10.0	8.171691	10.0	2054434.0	0.817169	Y
7	IC 410-452392/19	25.0	19.25468	10.0	2125786.0	0.770187	Y



Calibration

/ Methyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

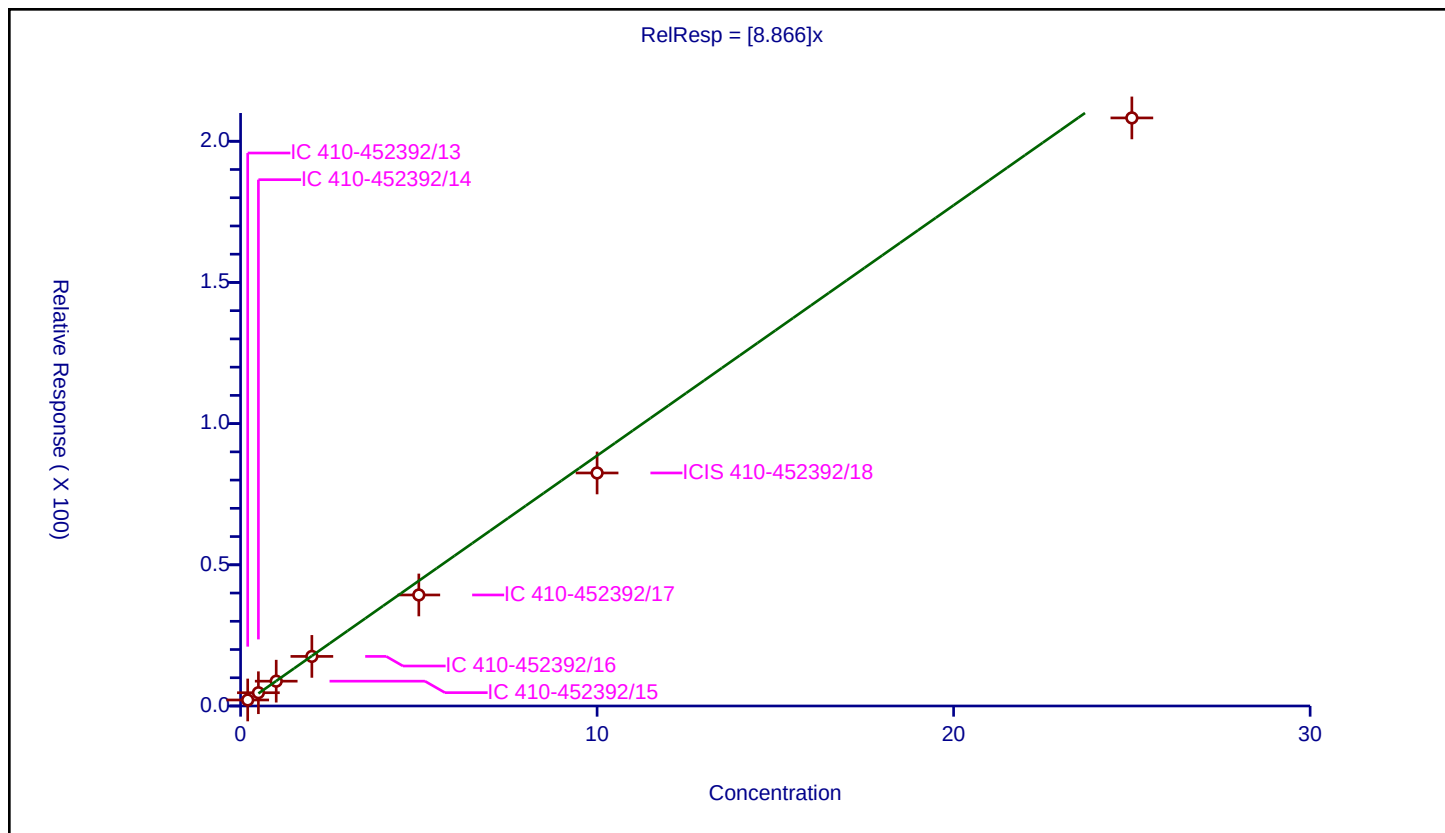
Curve Coefficients

Intercept: 0
Slope: 8.866

Error Coefficients

Standard Error: 269000
Relative Standard Error: 10.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	2.128582	50.0	144204.0	10.642909	Y
2	IC 410-452392/14	0.5	4.701099	50.0	141435.0	9.402199	Y
3	IC 410-452392/15	1.0	8.790656	50.0	137066.0	8.790656	Y
4	IC 410-452392/16	2.0	17.562666	50.0	135361.0	8.781333	Y
5	IC 410-452392/17	5.0	39.315589	50.0	137958.0	7.863118	Y
6	ICIS 410-452392/18	10.0	82.522022	50.0	140657.0	8.252202	Y
7	IC 410-452392/19	25.0	208.264175	50.0	144957.0	8.330567	Y



Calibration

/ 3-Chloro-1-propene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

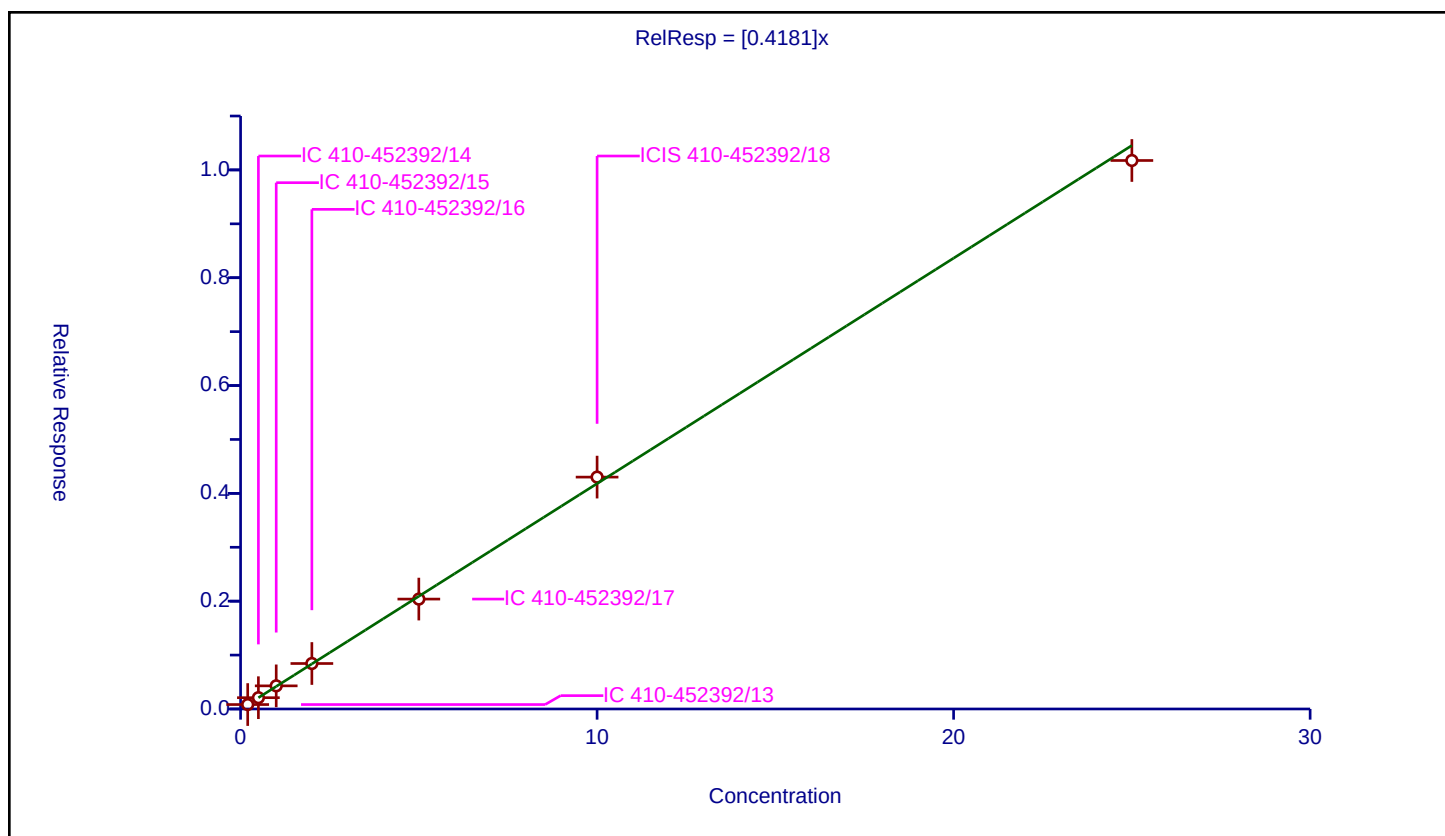
Curve Coefficients

Intercept: 0
Slope: 0.4181

Error Coefficients

Standard Error: 972000
Relative Standard Error: 2.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.082344	10.0	2047394.0	0.411719	Y
2	IC 410-452392/14	0.5	0.209654	10.0	2025434.0	0.419308	Y
3	IC 410-452392/15	1.0	0.429206	10.0	2044405.0	0.429206	Y
4	IC 410-452392/16	2.0	0.843785	10.0	2031703.0	0.421892	Y
5	IC 410-452392/17	5.0	2.038629	10.0	2042373.0	0.407726	Y
6	ICIS 410-452392/18	10.0	4.301623	10.0	2054434.0	0.430162	Y
7	IC 410-452392/19	25.0	10.174867	10.0	2125786.0	0.406995	Y



Calibration

/ Methylene Chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

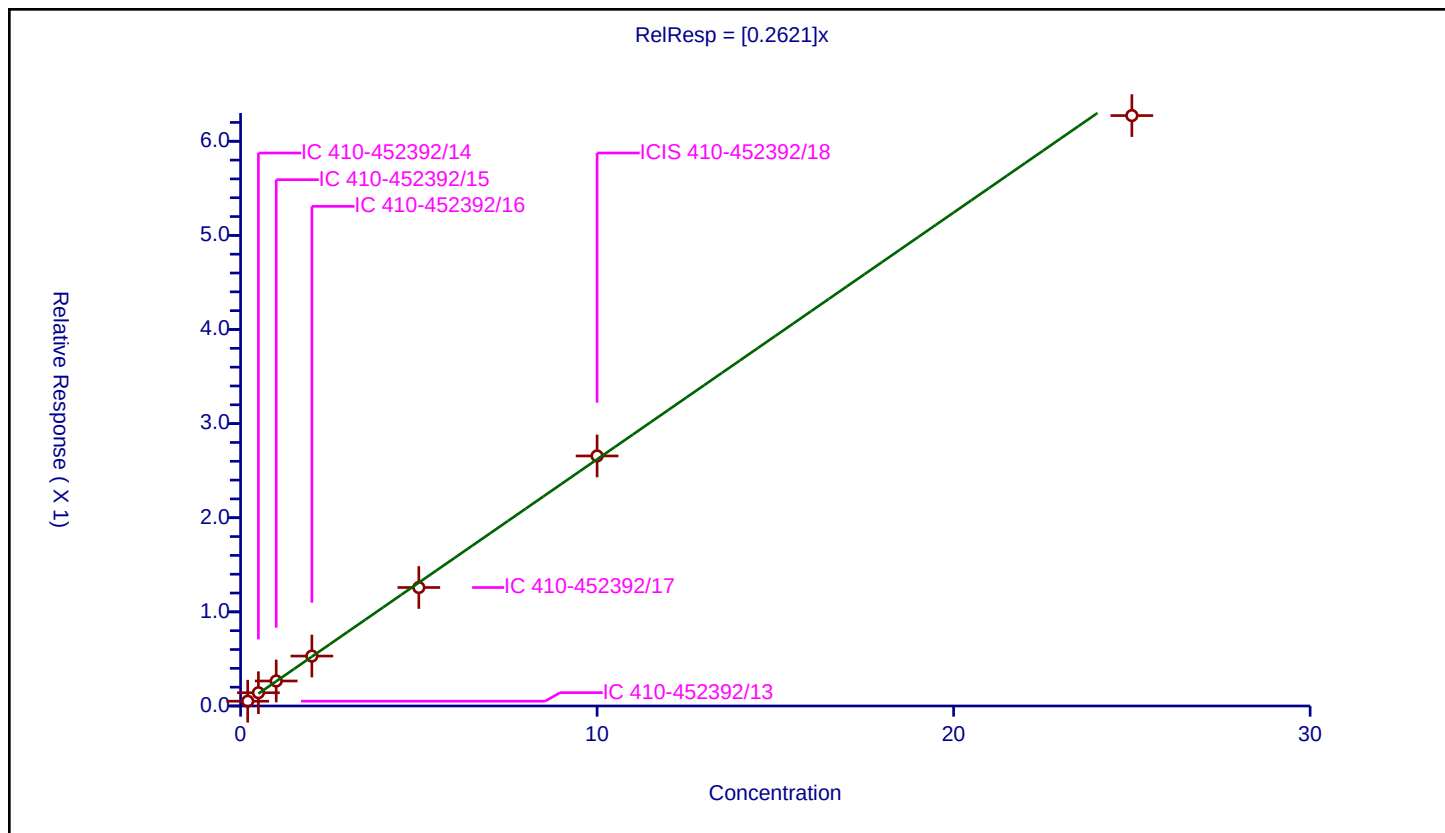
Curve Coefficients

Intercept: 0
 Slope: 0.2621

Error Coefficients

Standard Error: 600000
 Relative Standard Error: 4.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.050777	10.0	2047394.0	0.253884	Y
2	IC 410-452392/14	0.5	0.140869	10.0	2025434.0	0.281737	Y
3	IC 410-452392/15	1.0	0.26553	10.0	2044405.0	0.26553	Y
4	IC 410-452392/16	2.0	0.530511	10.0	2031703.0	0.265255	Y
5	IC 410-452392/17	5.0	1.258903	10.0	2042373.0	0.251781	Y
6	ICIS 410-452392/18	10.0	2.65662	10.0	2054434.0	0.265662	Y
7	IC 410-452392/19	25.0	6.272739	10.0	2125786.0	0.25091	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

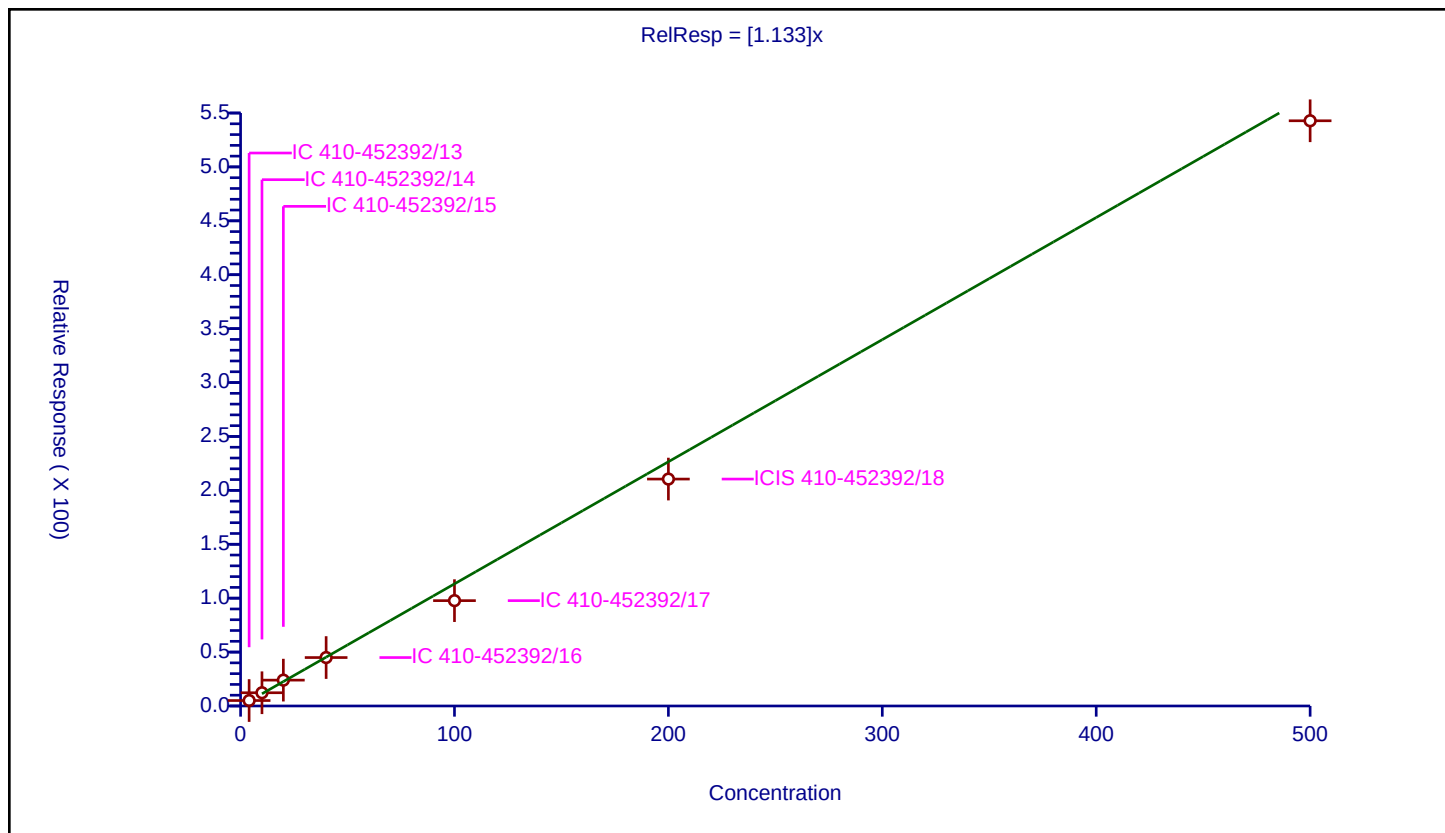
Curve Coefficients

Intercept: 0
Slope: 1.133

Error Coefficients

Standard Error: 697000
Relative Standard Error: 9.1
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	4.0	5.049097	50.0	144204.0	1.262274	Y
2	IC 410-452392/14	10.0	12.291512	50.0	141435.0	1.229151	Y
3	IC 410-452392/15	20.0	23.974946	50.0	137066.0	1.198747	Y
4	IC 410-452392/16	40.0	44.93244	50.0	135361.0	1.123311	Y
5	IC 410-452392/17	100.0	97.705461	50.0	137958.0	0.977055	Y
6	ICIS 410-452392/18	200.0	210.486503	50.0	140657.0	1.052433	Y
7	IC 410-452392/19	500.0	542.795105	50.0	144957.0	1.08559	Y



Calibration

/ Acrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

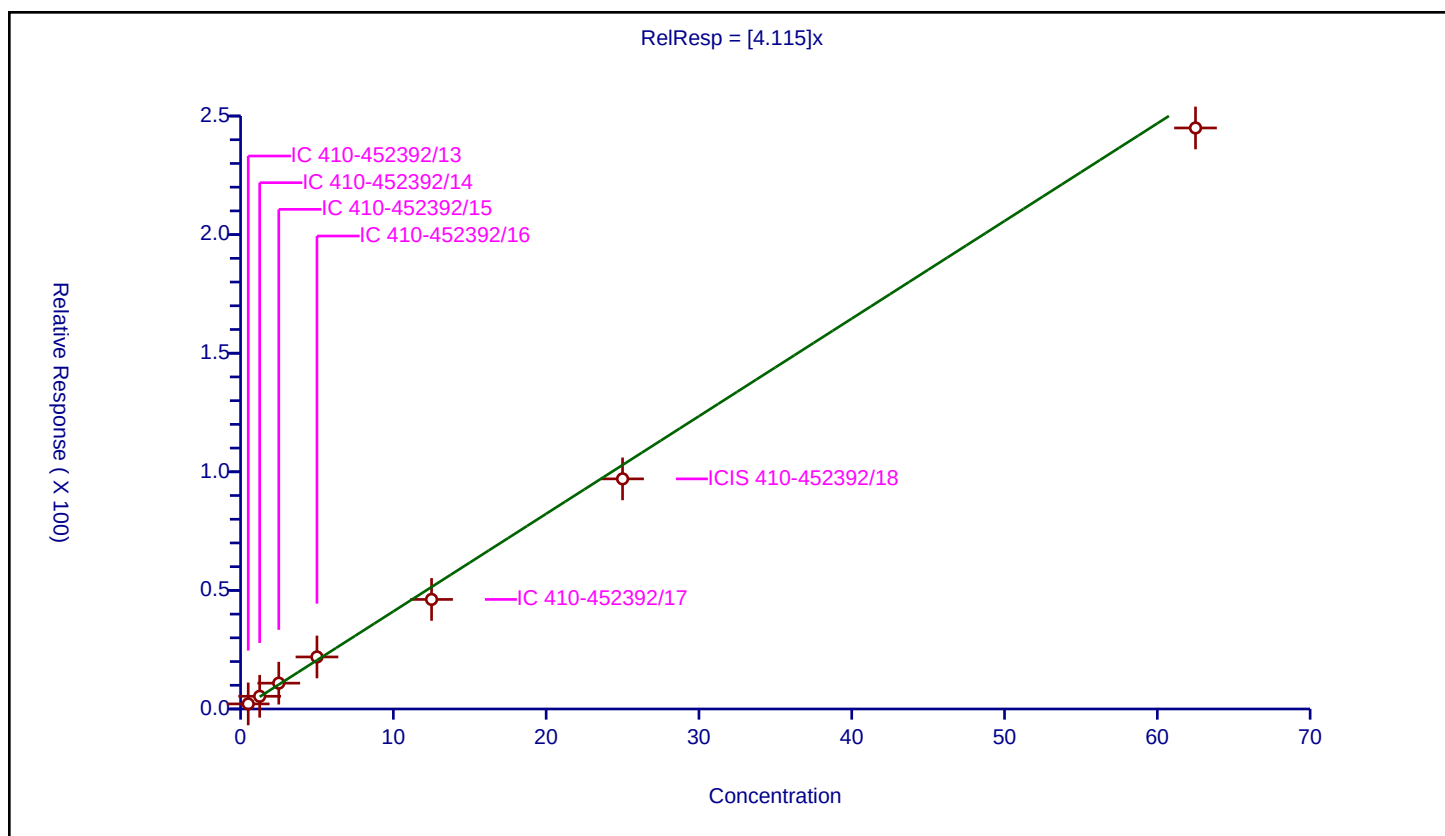
Curve Coefficients

Intercept: 0
Slope: 4.115

Error Coefficients

Standard Error: 316000
Relative Standard Error: 6.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.5	2.140717	50.0	144204.0	4.281435	Y
2	IC 410-452392/14	1.25	5.351575	50.0	141435.0	4.28126	Y
3	IC 410-452392/15	2.5	10.892198	50.0	137066.0	4.356879	Y
4	IC 410-452392/16	5.0	21.93985	50.0	135361.0	4.38797	Y
5	IC 410-452392/17	12.5	46.18942	50.0	137958.0	3.695154	Y
6	ICIS 410-452392/18	25.0	97.017568	50.0	140657.0	3.880703	Y
7	IC 410-452392/19	62.5	244.964369	50.0	144957.0	3.91943	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

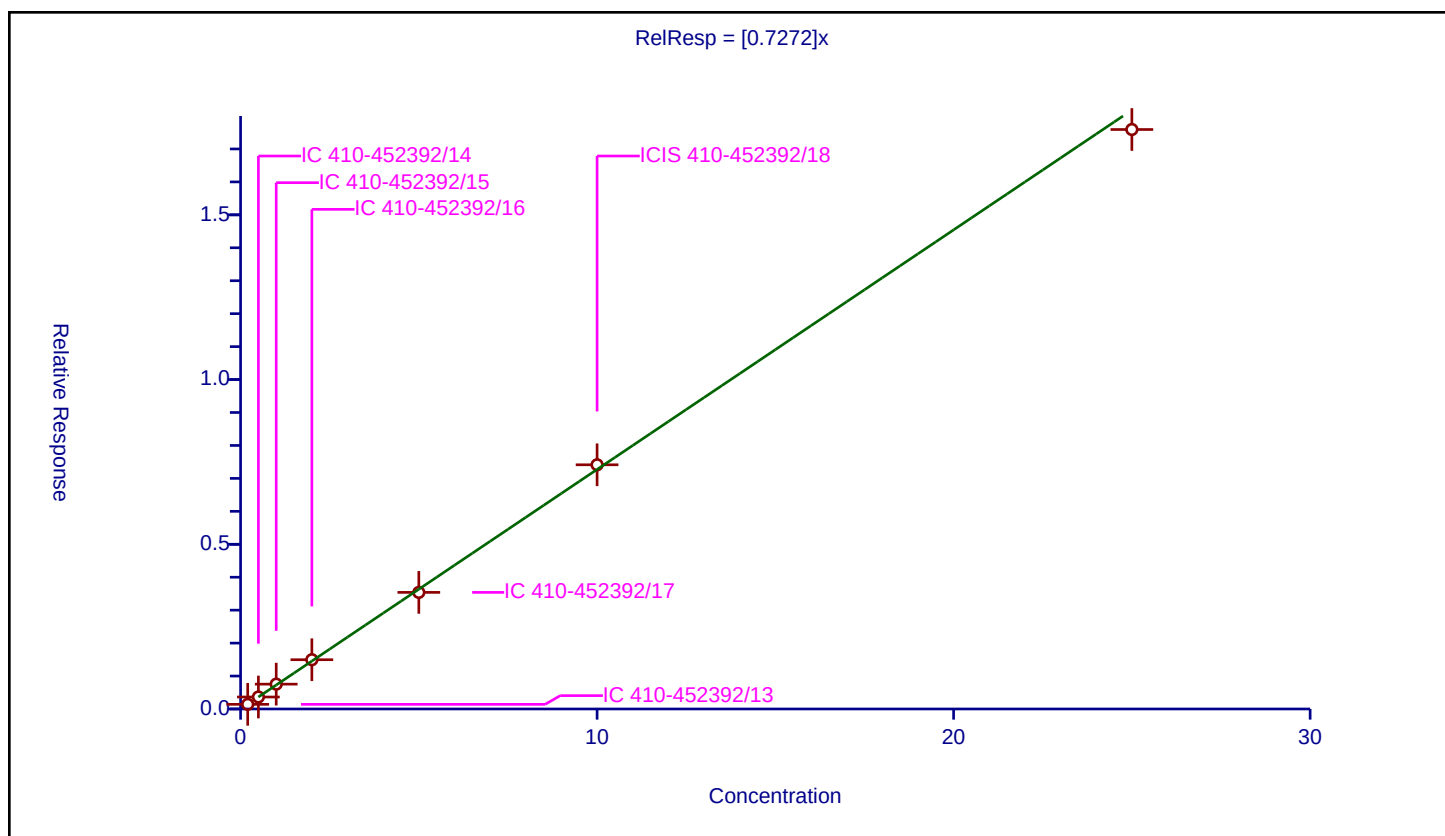
Curve Coefficients

Intercept: 0
Slope: 0.7272

Error Coefficients

Standard Error: 1680000
Relative Standard Error: 2.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.141453	10.0	2047394.0	0.707265	Y
2	IC 410-452392/14	0.5	0.364208	10.0	2025434.0	0.728417	Y
3	IC 410-452392/15	1.0	0.754073	10.0	2044405.0	0.754073	Y
4	IC 410-452392/16	2.0	1.49576	10.0	2031703.0	0.74788	Y
5	IC 410-452392/17	5.0	3.53904	10.0	2042373.0	0.707808	Y
6	ICIS 410-452392/18	10.0	7.412567	10.0	2054434.0	0.741257	Y
7	IC 410-452392/19	25.0	17.590788	10.0	2125786.0	0.703632	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

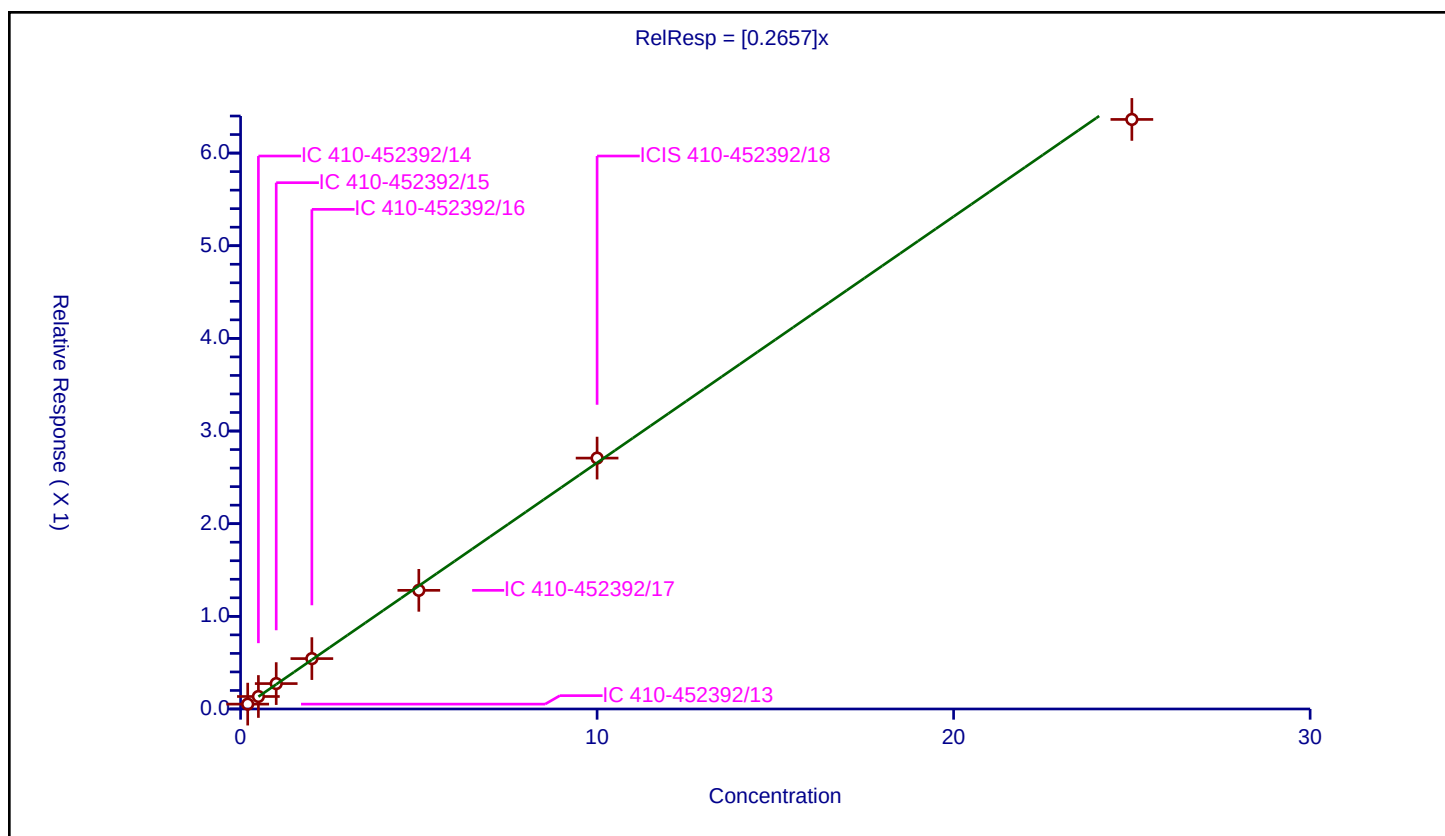
Curve Coefficients

Intercept: 0
Slope: 0.2657

Error Coefficients

Standard Error: 609000
Relative Standard Error: 3.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.052574	10.0	2047394.0	0.262871	Y
2	IC 410-452392/14	0.5	0.134978	10.0	2025434.0	0.269957	Y
3	IC 410-452392/15	1.0	0.27408	10.0	2044405.0	0.27408	Y
4	IC 410-452392/16	2.0	0.543697	10.0	2031703.0	0.271848	Y
5	IC 410-452392/17	5.0	1.280657	10.0	2042373.0	0.256131	Y
6	ICIS 410-452392/18	10.0	2.708016	10.0	2054434.0	0.270802	Y
7	IC 410-452392/19	25.0	6.363025	10.0	2125786.0	0.254521	Y



Calibration

/ Hexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

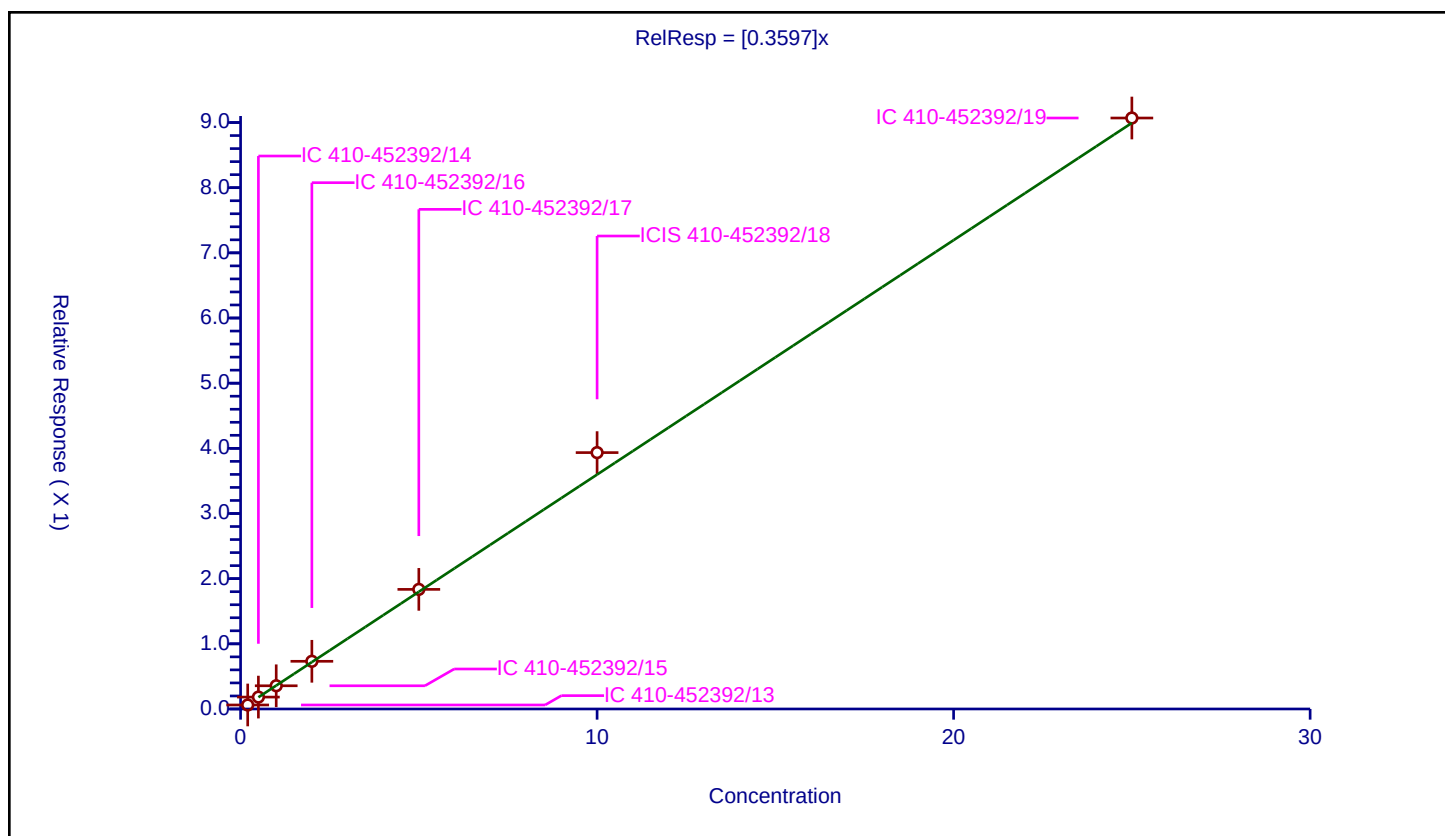
Curve Coefficients

Intercept: 0
 Slope: 0.3597

Error Coefficients

Standard Error: 870000
 Relative Standard Error: 7.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.061439	10.0	2047394.0	0.307195	Y
2	IC 410-452392/14	0.5	0.182682	10.0	2025434.0	0.365364	Y
3	IC 410-452392/15	1.0	0.356304	10.0	2044405.0	0.356304	Y
4	IC 410-452392/16	2.0	0.732066	10.0	2031703.0	0.366033	Y
5	IC 410-452392/17	5.0	1.835615	10.0	2042373.0	0.367123	Y
6	ICIS 410-452392/18	10.0	3.934514	10.0	2054434.0	0.393451	Y
7	IC 410-452392/19	25.0	9.069431	10.0	2125786.0	0.362777	Y



Calibration

/ 1,1-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

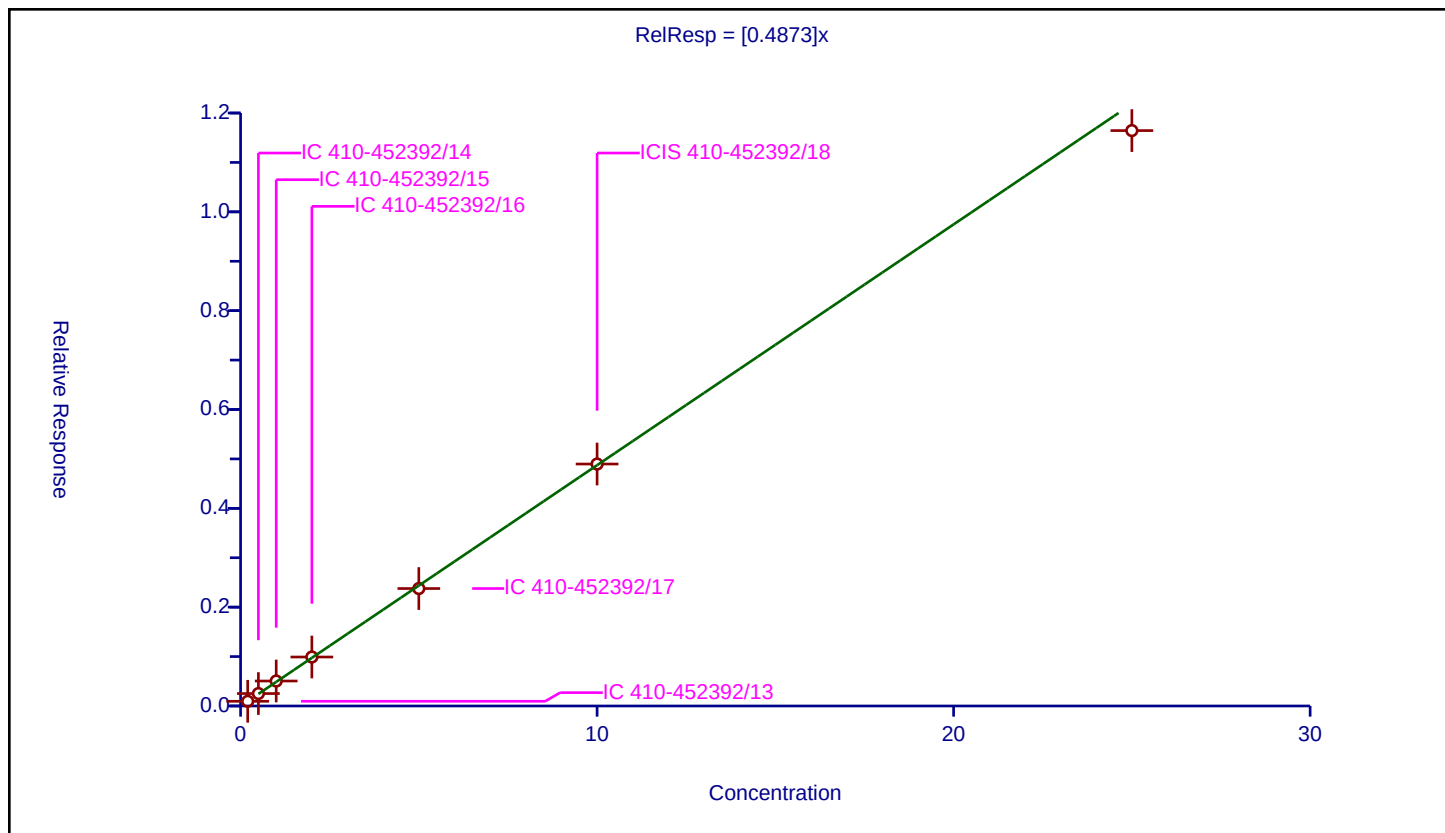
Curve Coefficients

Intercept: 0
Slope: 0.4873

Error Coefficients

Standard Error: 1110000
Relative Standard Error: 3.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.095287	10.0	2047394.0	0.476435	Y
2	IC 410-452392/14	0.5	0.251497	10.0	2025434.0	0.502993	Y
3	IC 410-452392/15	1.0	0.505257	10.0	2044405.0	0.505257	Y
4	IC 410-452392/16	2.0	0.991173	10.0	2031703.0	0.495587	Y
5	IC 410-452392/17	5.0	2.376804	10.0	2042373.0	0.475361	Y
6	ICIS 410-452392/18	10.0	4.896453	10.0	2054434.0	0.489645	Y
7	IC 410-452392/19	25.0	11.644112	10.0	2125786.0	0.465764	Y



Calibration

/ Isopropyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

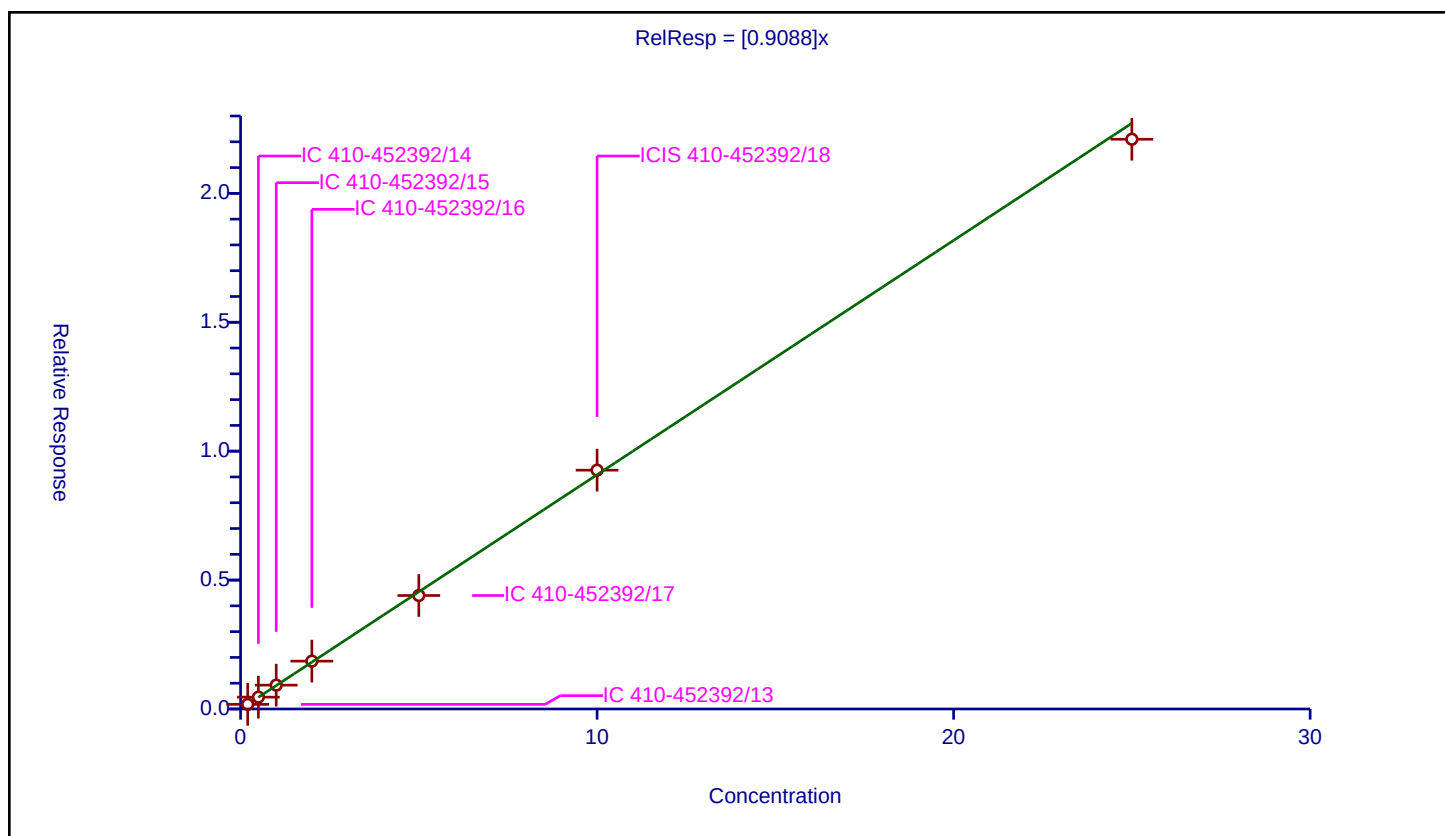
Curve Coefficients

Intercept: 0
Slope: 0.9088

Error Coefficients

Standard Error: 2110000
Relative Standard Error: 2.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.179496	10.0	2047394.0	0.897482	Y
2	IC 410-452392/14	0.5	0.460242	10.0	2025434.0	0.920484	Y
3	IC 410-452392/15	1.0	0.924983	10.0	2044405.0	0.924983	Y
4	IC 410-452392/16	2.0	1.85598	10.0	2031703.0	0.92799	Y
5	IC 410-452392/17	5.0	4.401498	10.0	2042373.0	0.8803	Y
6	ICIS 410-452392/18	10.0	9.263427	10.0	2054434.0	0.926343	Y
7	IC 410-452392/19	25.0	22.099299	10.0	2125786.0	0.883972	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

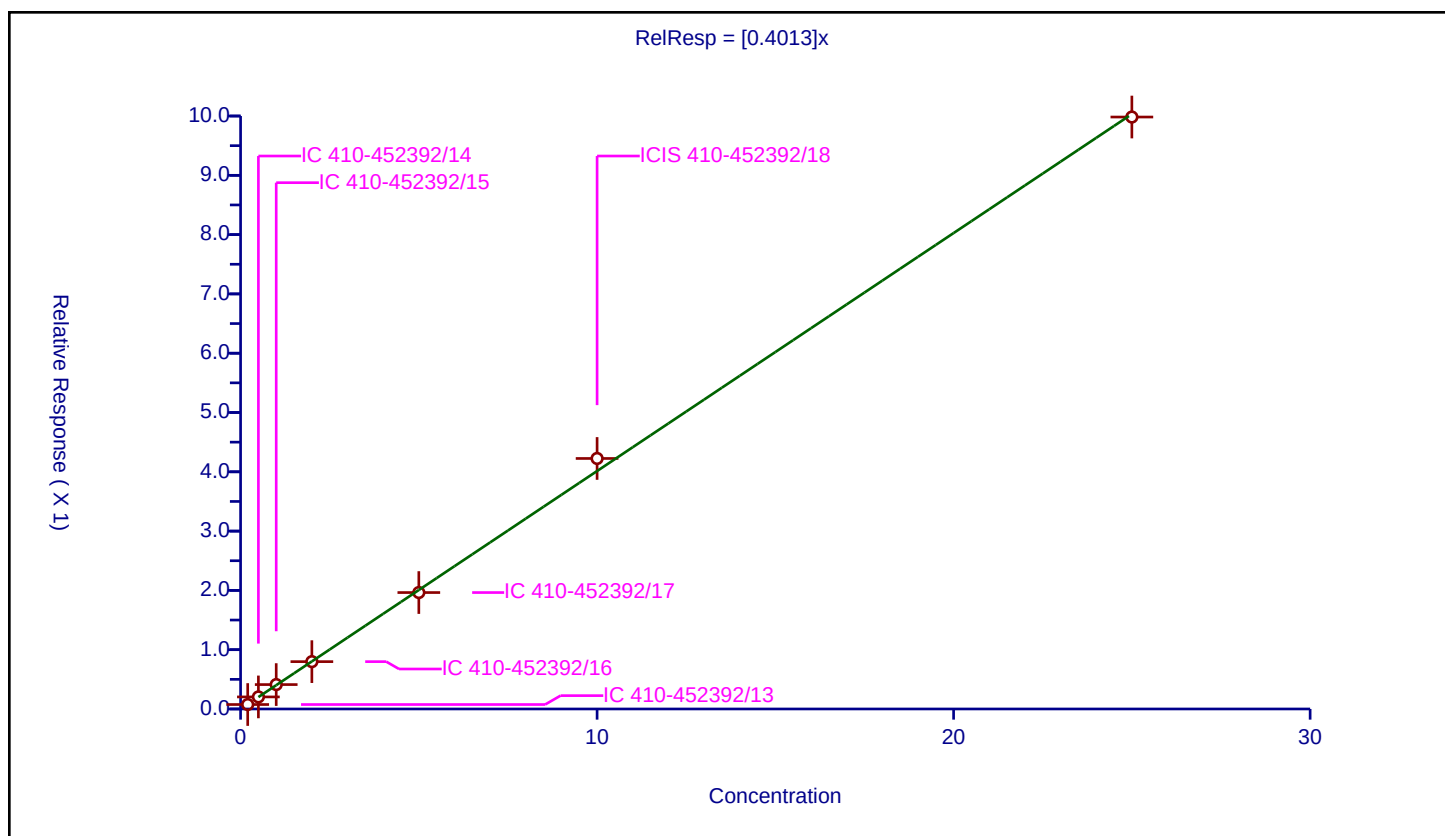
Curve Coefficients

Intercept: 0
Slope: 0.4013

Error Coefficients

Standard Error: 953000
Relative Standard Error: 3.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.075408	10.0	2047394.0	0.37704	Y
2	IC 410-452392/14	0.5	0.203369	10.0	2025434.0	0.406738	Y
3	IC 410-452392/15	1.0	0.411685	10.0	2044405.0	0.411685	Y
4	IC 410-452392/16	2.0	0.79837	10.0	2031703.0	0.399185	Y
5	IC 410-452392/17	5.0	1.963701	10.0	2042373.0	0.39274	Y
6	ICIS 410-452392/18	10.0	4.224891	10.0	2054434.0	0.422489	Y
7	IC 410-452392/19	25.0	9.982764	10.0	2125786.0	0.399311	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

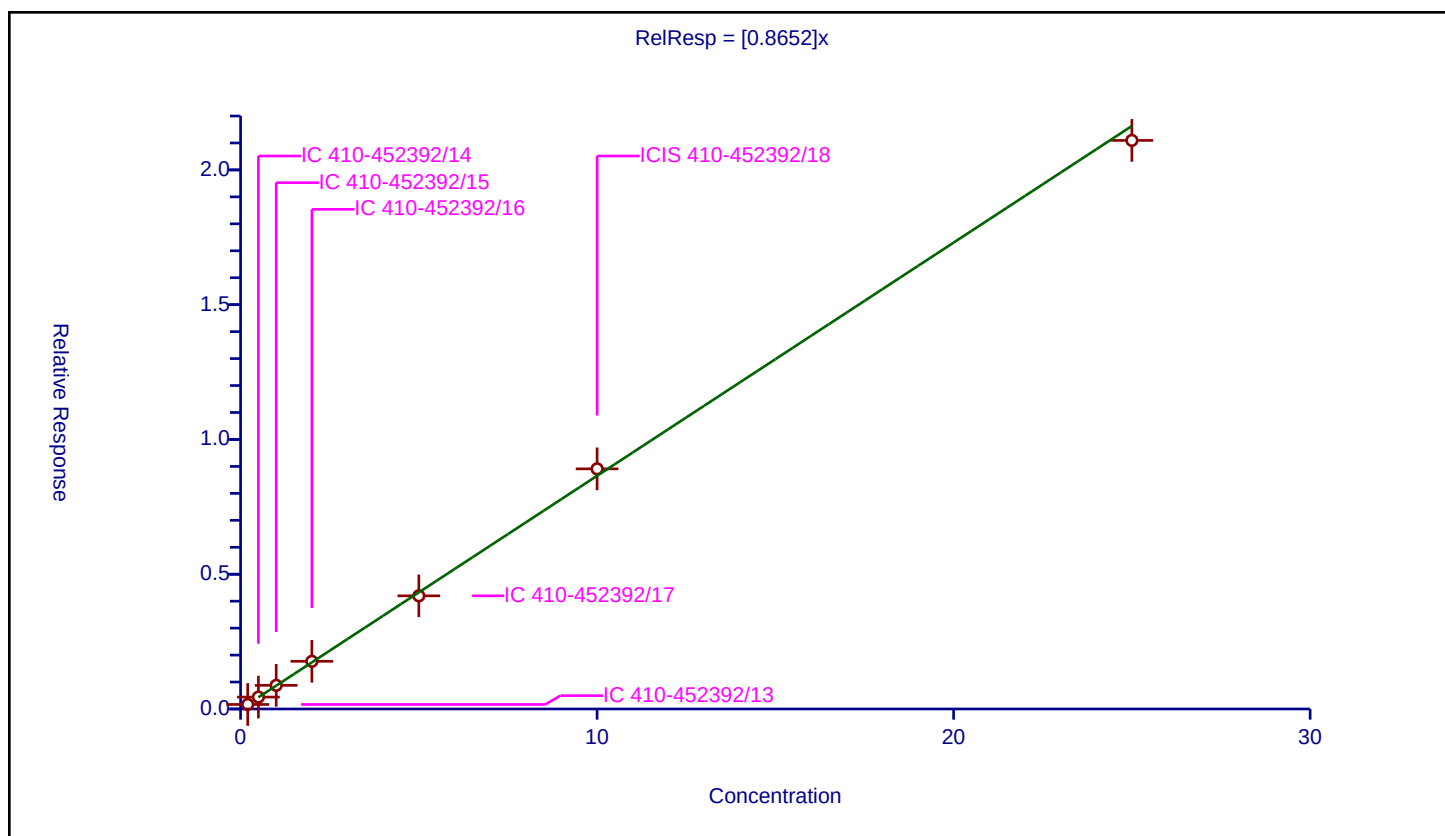
Curve Coefficients

Intercept: 0
Slope: 0.8652

Error Coefficients

Standard Error: 2020000
Relative Standard Error: 2.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.16734	10.0	2047394.0	0.836698	Y
2	IC 410-452392/14	0.5	0.441555	10.0	2025434.0	0.883109	Y
3	IC 410-452392/15	1.0	0.877424	10.0	2044405.0	0.877424	Y
4	IC 410-452392/16	2.0	1.768974	10.0	2031703.0	0.884487	Y
5	IC 410-452392/17	5.0	4.198391	10.0	2042373.0	0.839678	Y
6	ICIS 410-452392/18	10.0	8.908551	10.0	2054434.0	0.890855	Y
7	IC 410-452392/19	25.0	21.094974	10.0	2125786.0	0.843799	Y



Calibration

/ 2-Butanone (MEK)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

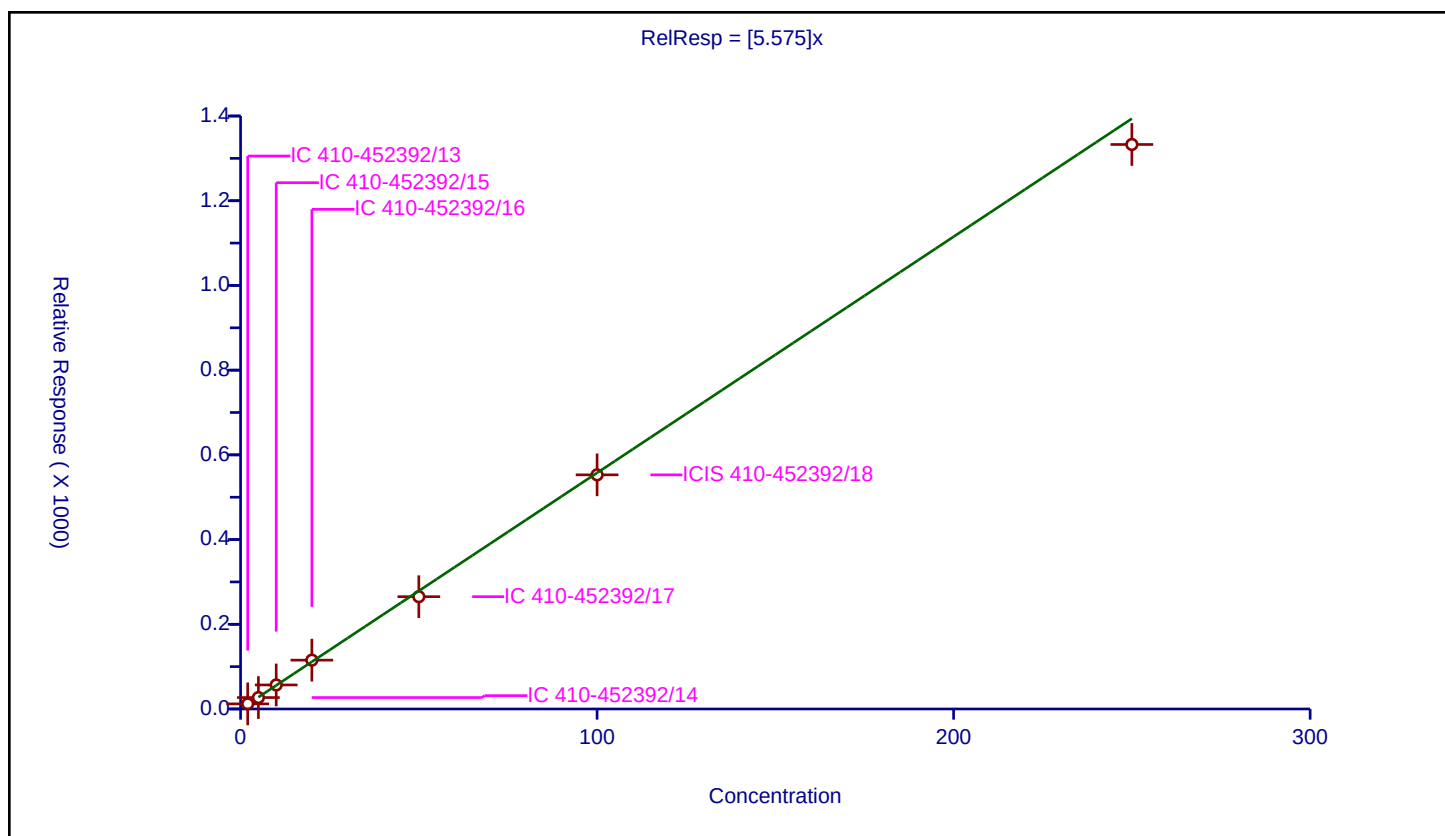
Curve Coefficients

Intercept: 0
Slope: 5.575

Error Coefficients

Standard Error: 1730000
Relative Standard Error: 4.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	2.0	12.061385	50.0	144204.0	6.030693	Y
2	IC 410-452392/14	5.0	26.961855	50.0	141435.0	5.392371	Y
3	IC 410-452392/15	10.0	56.748938	50.0	137066.0	5.674894	Y
4	IC 410-452392/16	20.0	115.312017	50.0	135361.0	5.765601	Y
5	IC 410-452392/17	50.0	265.182882	50.0	137958.0	5.303658	Y
6	ICIS 410-452392/18	100.0	552.806117	50.0	140657.0	5.528061	Y
7	IC 410-452392/19	250.0	1332.759025	50.0	144957.0	5.331036	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

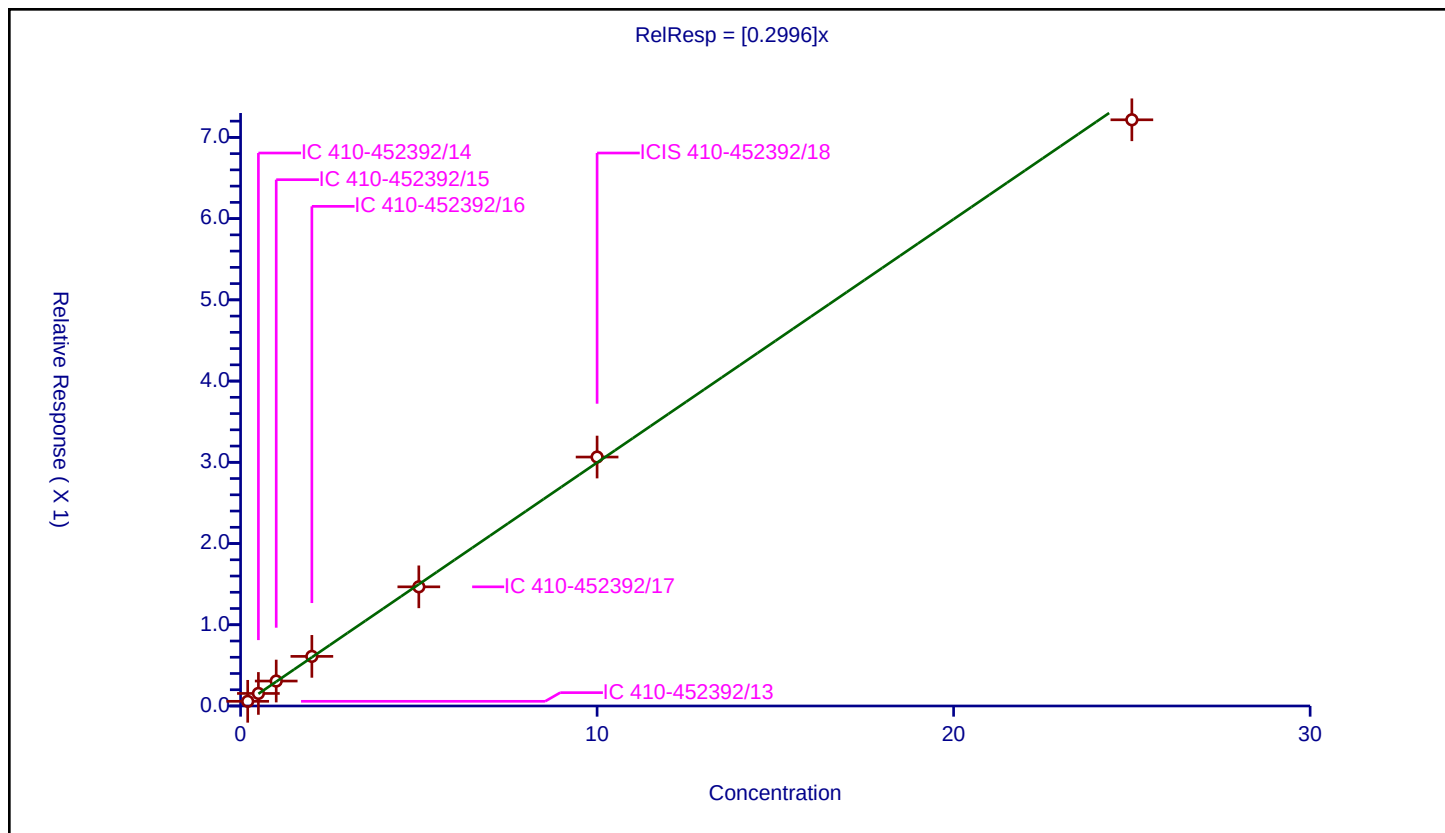
Curve Coefficients

Intercept: 0
Slope: 0.2996

Error Coefficients

Standard Error: 690000
Relative Standard Error: 3.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.057473	10.0	2047394.0	0.287365	Y
2	IC 410-452392/14	0.5	0.154579	10.0	2025434.0	0.309158	Y
3	IC 410-452392/15	1.0	0.30697	10.0	2044405.0	0.30697	Y
4	IC 410-452392/16	2.0	0.610818	10.0	2031703.0	0.305409	Y
5	IC 410-452392/17	5.0	1.466955	10.0	2042373.0	0.293391	Y
6	ICIS 410-452392/18	10.0	3.064708	10.0	2054434.0	0.306471	Y
7	IC 410-452392/19	25.0	7.216705	10.0	2125786.0	0.288668	Y



Calibration

/ 2,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

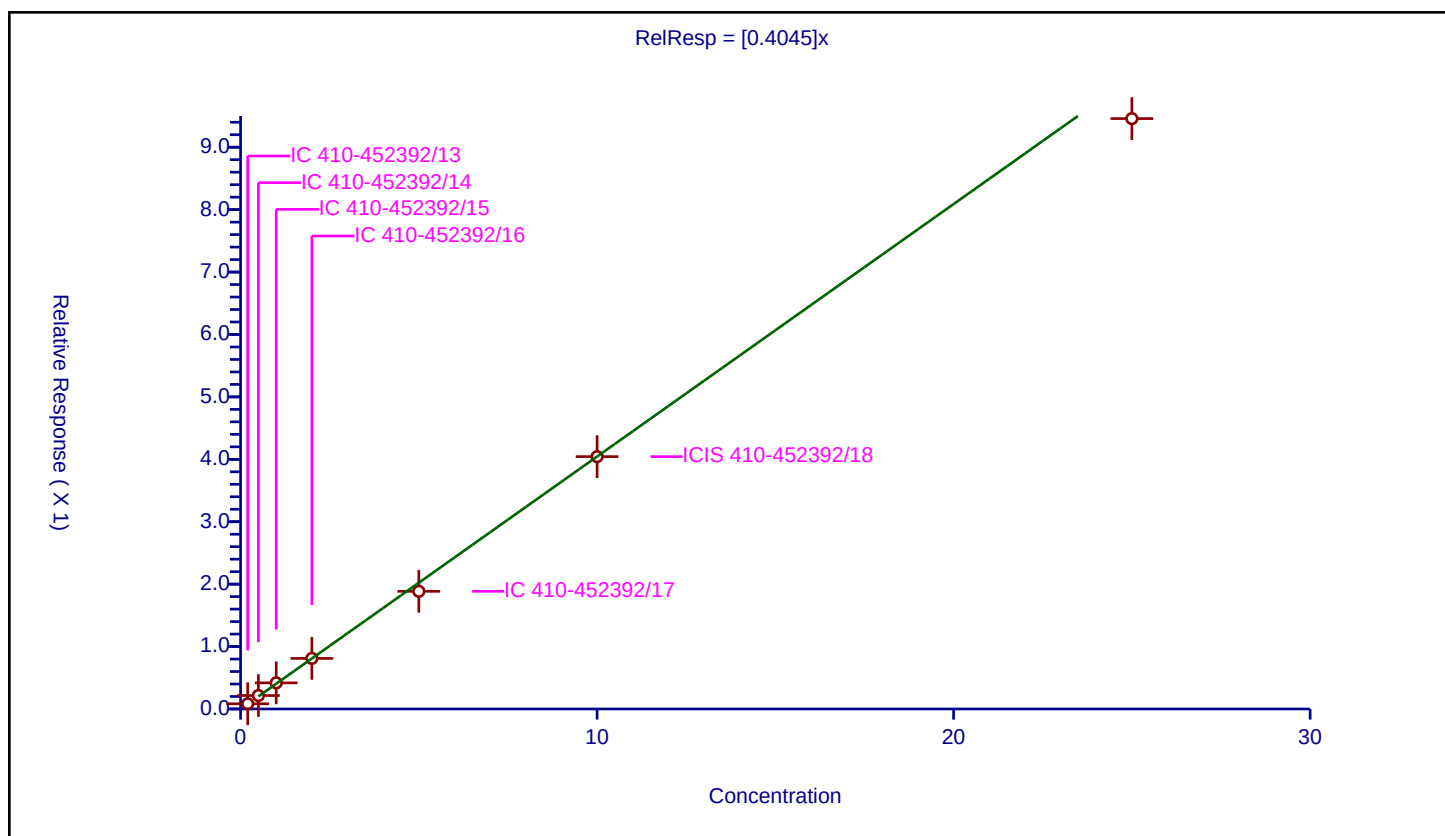
Curve Coefficients

Intercept: 0
Slope: 0.4045

Error Coefficients

Standard Error: 905000
Relative Standard Error: 5.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.083389	10.0	2047394.0	0.416945	Y
2	IC 410-452392/14	0.5	0.215662	10.0	2025434.0	0.431325	Y
3	IC 410-452392/15	1.0	0.418268	10.0	2044405.0	0.418268	Y
4	IC 410-452392/16	2.0	0.810148	10.0	2031703.0	0.405074	Y
5	IC 410-452392/17	5.0	1.885062	10.0	2042373.0	0.377012	Y
6	ICIS 410-452392/18	10.0	4.042972	10.0	2054434.0	0.404297	Y
7	IC 410-452392/19	25.0	9.458445	10.0	2125786.0	0.378338	Y



Calibration

/ Propionitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

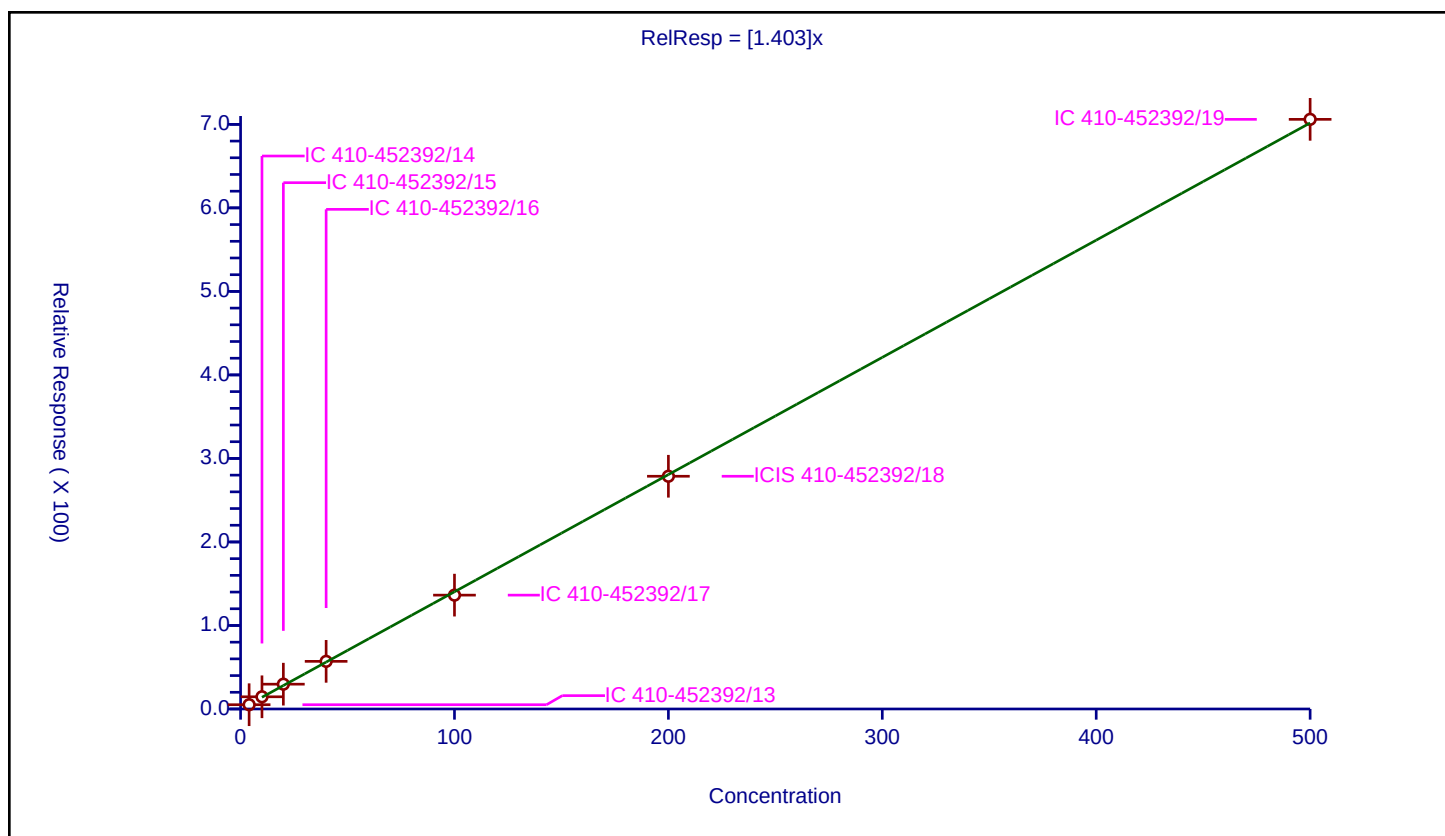
Curve Coefficients

Intercept: 0
Slope: 1.403

Error Coefficients

Standard Error: 911000
Relative Standard Error: 4.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	4.0	5.136127	50.0	144204.0	1.284032	Y
2	IC 410-452392/14	10.0	14.59363	50.0	141435.0	1.459363	Y
3	IC 410-452392/15	20.0	29.707221	50.0	137066.0	1.485361	Y
4	IC 410-452392/16	40.0	57.041541	50.0	135361.0	1.426039	Y
5	IC 410-452392/17	100.0	136.336421	50.0	137958.0	1.363364	Y
6	ICIS 410-452392/18	200.0	278.665122	50.0	140657.0	1.393326	Y
7	IC 410-452392/19	500.0	706.022131	50.0	144957.0	1.412044	Y



Calibration

/ Methacrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

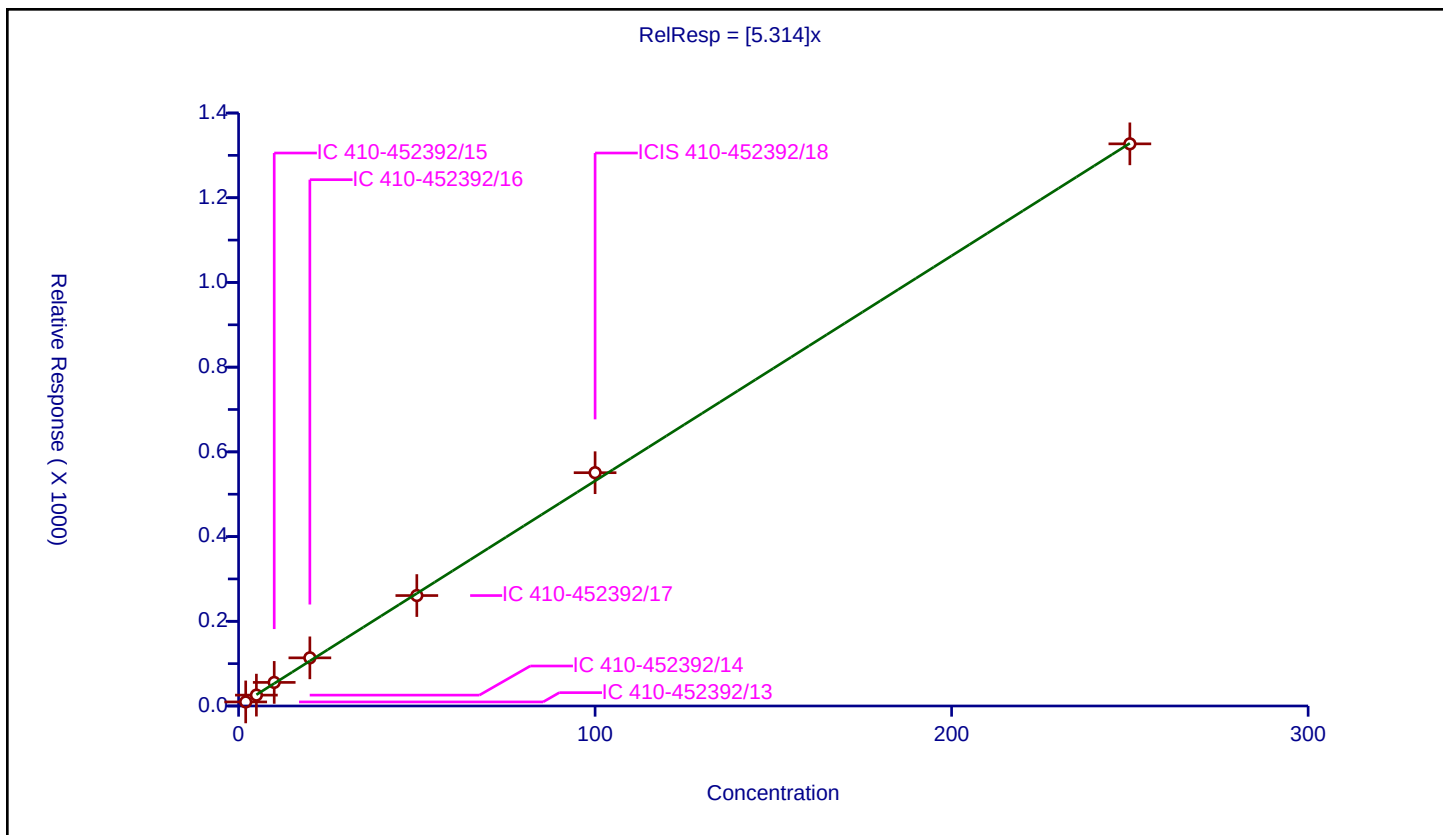
Curve Coefficients

Intercept: 0
Slope: 5.314

Error Coefficients

Standard Error: 1720000
Relative Standard Error: 5.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	2.0	9.576711	50.0	144204.0	4.788355	Y
2	IC 410-452392/14	5.0	25.63439	50.0	141435.0	5.126878	Y
3	IC 410-452392/15	10.0	55.684488	50.0	137066.0	5.568449	Y
4	IC 410-452392/16	20.0	113.673436	50.0	135361.0	5.683672	Y
5	IC 410-452392/17	50.0	260.739863	50.0	137958.0	5.214797	Y
6	ICIS 410-452392/18	100.0	550.832166	50.0	140657.0	5.508322	Y
7	IC 410-452392/19	250.0	1327.20117	50.0	144957.0	5.308805	Y



Calibration

/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

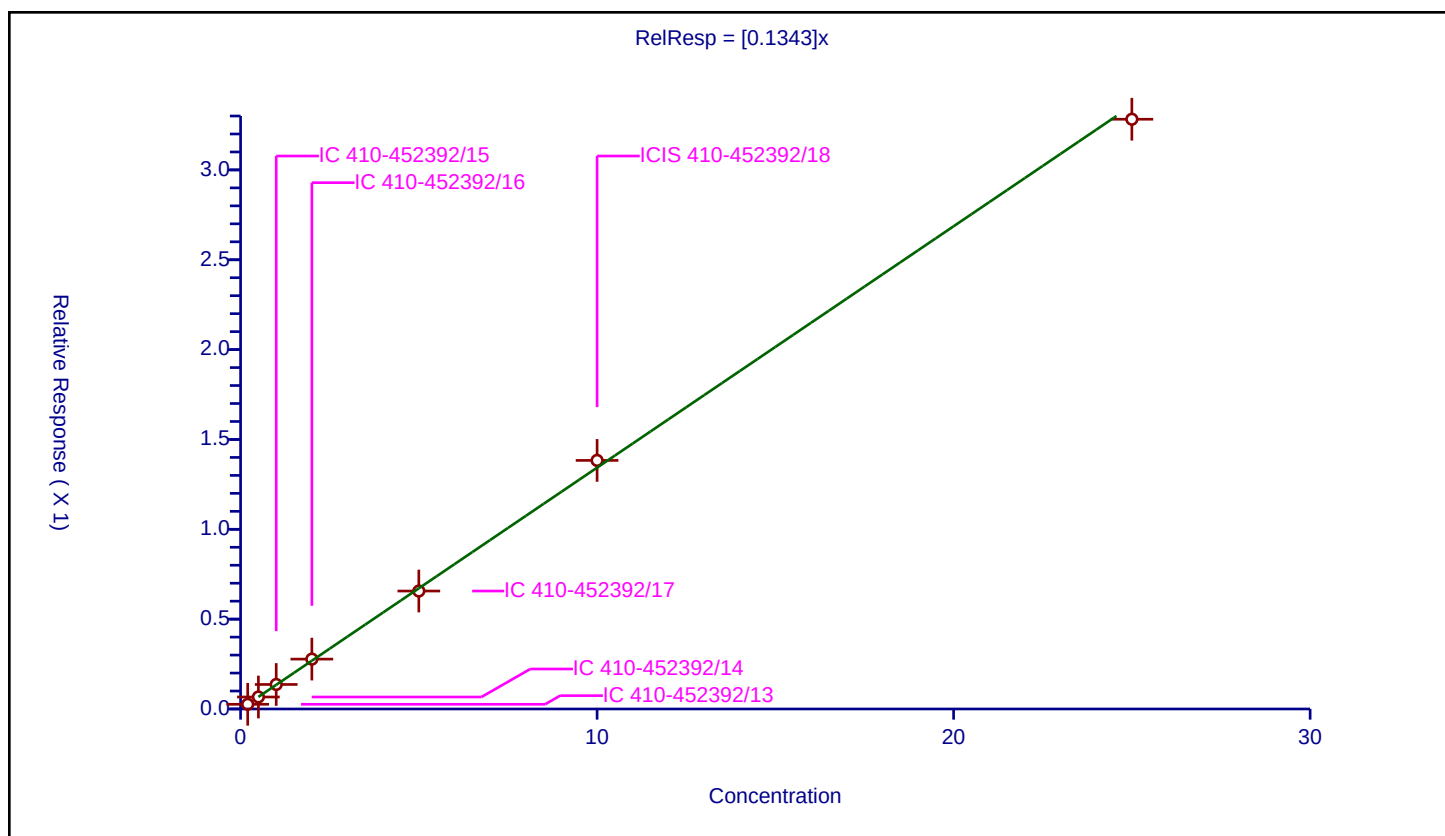
Curve Coefficients

Intercept: 0
Slope: 0.1343

Error Coefficients

Standard Error: 314000
Relative Standard Error: 2.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.026145	10.0	2047394.0	0.130727	Y
2	IC 410-452392/14	0.5	0.066702	10.0	2025434.0	0.133404	Y
3	IC 410-452392/15	1.0	0.136387	10.0	2044405.0	0.136387	Y
4	IC 410-452392/16	2.0	0.277624	10.0	2031703.0	0.138812	Y
5	IC 410-452392/17	5.0	0.656447	10.0	2042373.0	0.131289	Y
6	ICIS 410-452392/18	10.0	1.38333	10.0	2054434.0	0.138333	Y
7	IC 410-452392/19	25.0	3.282104	10.0	2125786.0	0.131284	Y



Calibration

/ Tetrahydrofuran

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

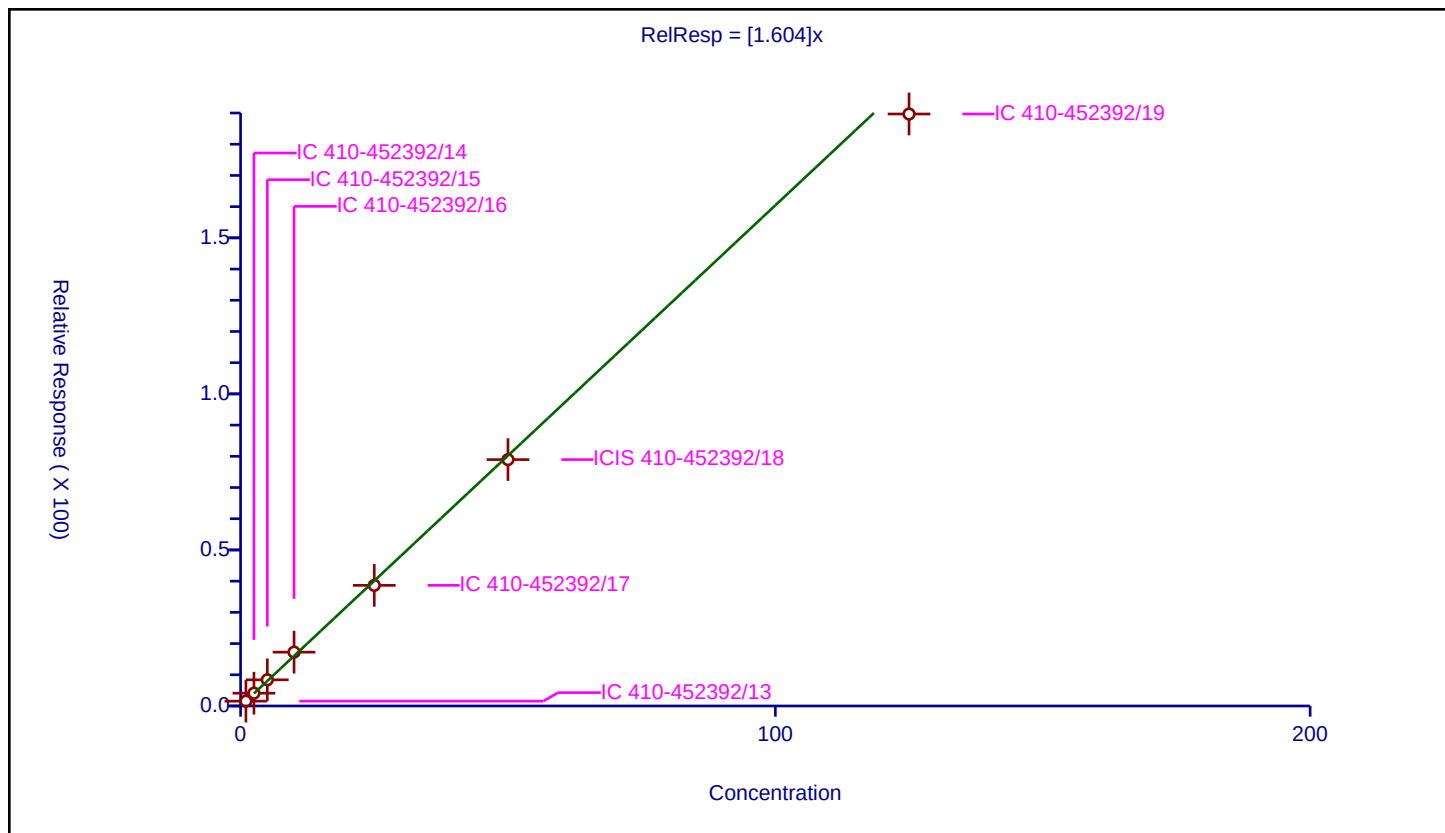
Curve Coefficients

Intercept: 0
Slope: 1.604

Error Coefficients

Standard Error: 247000
Relative Standard Error: 4.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	1.0	1.547807	50.0	144204.0	1.547807	Y
2	IC 410-452392/14	2.5	4.094814	50.0	141435.0	1.637926	Y
3	IC 410-452392/15	5.0	8.3872	50.0	137066.0	1.67744	Y
4	IC 410-452392/16	10.0	17.244258	50.0	135361.0	1.724426	Y
5	IC 410-452392/17	25.0	38.653068	50.0	137958.0	1.546123	Y
6	ICIS 410-452392/18	50.0	78.947724	50.0	140657.0	1.578954	Y
7	IC 410-452392/19	125.0	189.686942	50.0	144957.0	1.517496	Y



Calibration

/ Chloroform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

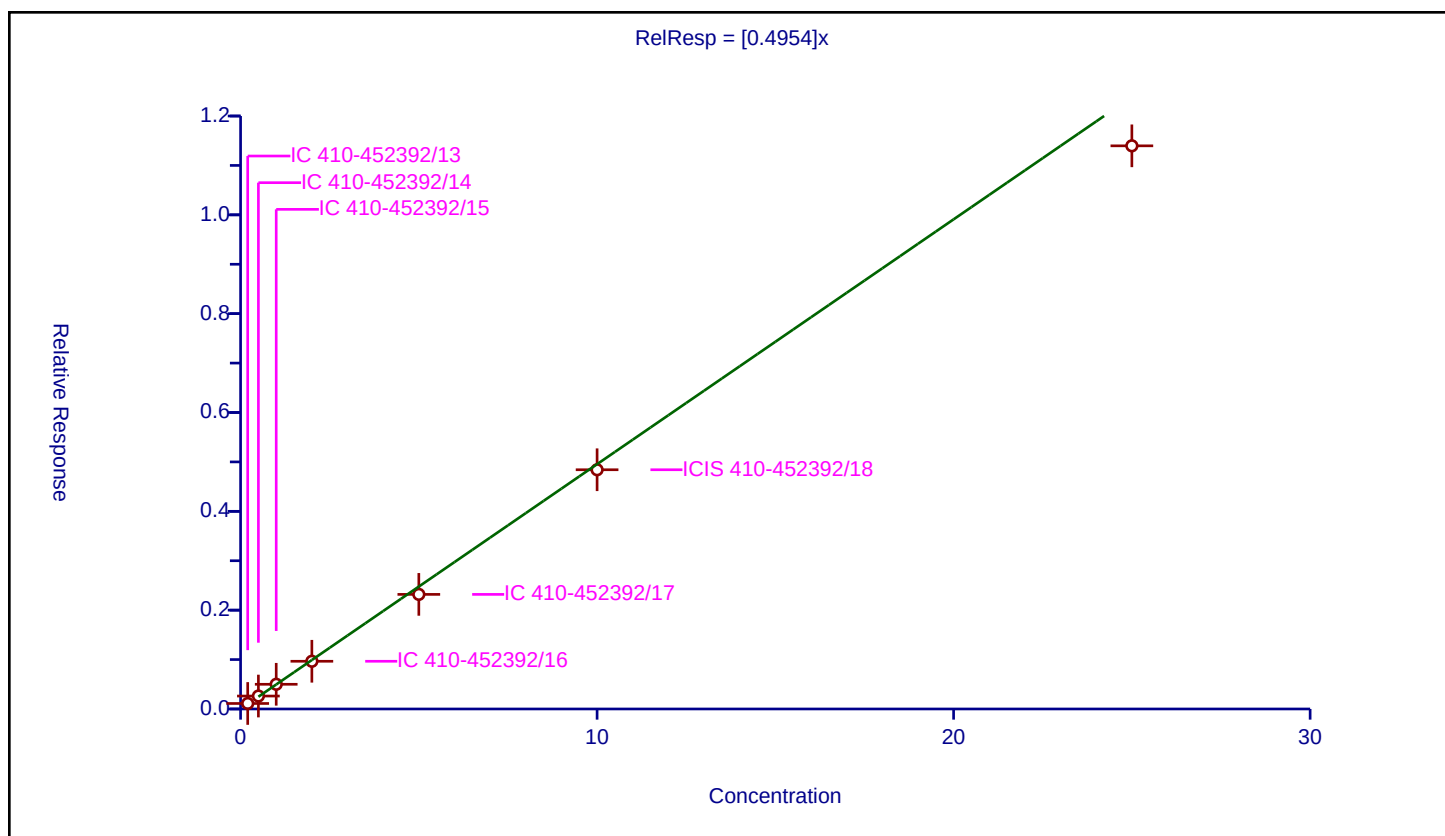
Curve Coefficients

Intercept: 0
Slope: 0.4954

Error Coefficients

Standard Error: 1090000
Relative Standard Error: 7.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.111464	10.0	2047394.0	0.557318	Y
2	IC 410-452392/14	0.5	0.262038	10.0	2025434.0	0.524075	Y
3	IC 410-452392/15	1.0	0.49996	10.0	2044405.0	0.49996	Y
4	IC 410-452392/16	2.0	0.965648	10.0	2031703.0	0.482824	Y
5	IC 410-452392/17	5.0	2.31915	10.0	2042373.0	0.46383	Y
6	ICIS 410-452392/18	10.0	4.841343	10.0	2054434.0	0.484134	Y
7	IC 410-452392/19	25.0	11.396759	10.0	2125786.0	0.45587	Y



Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

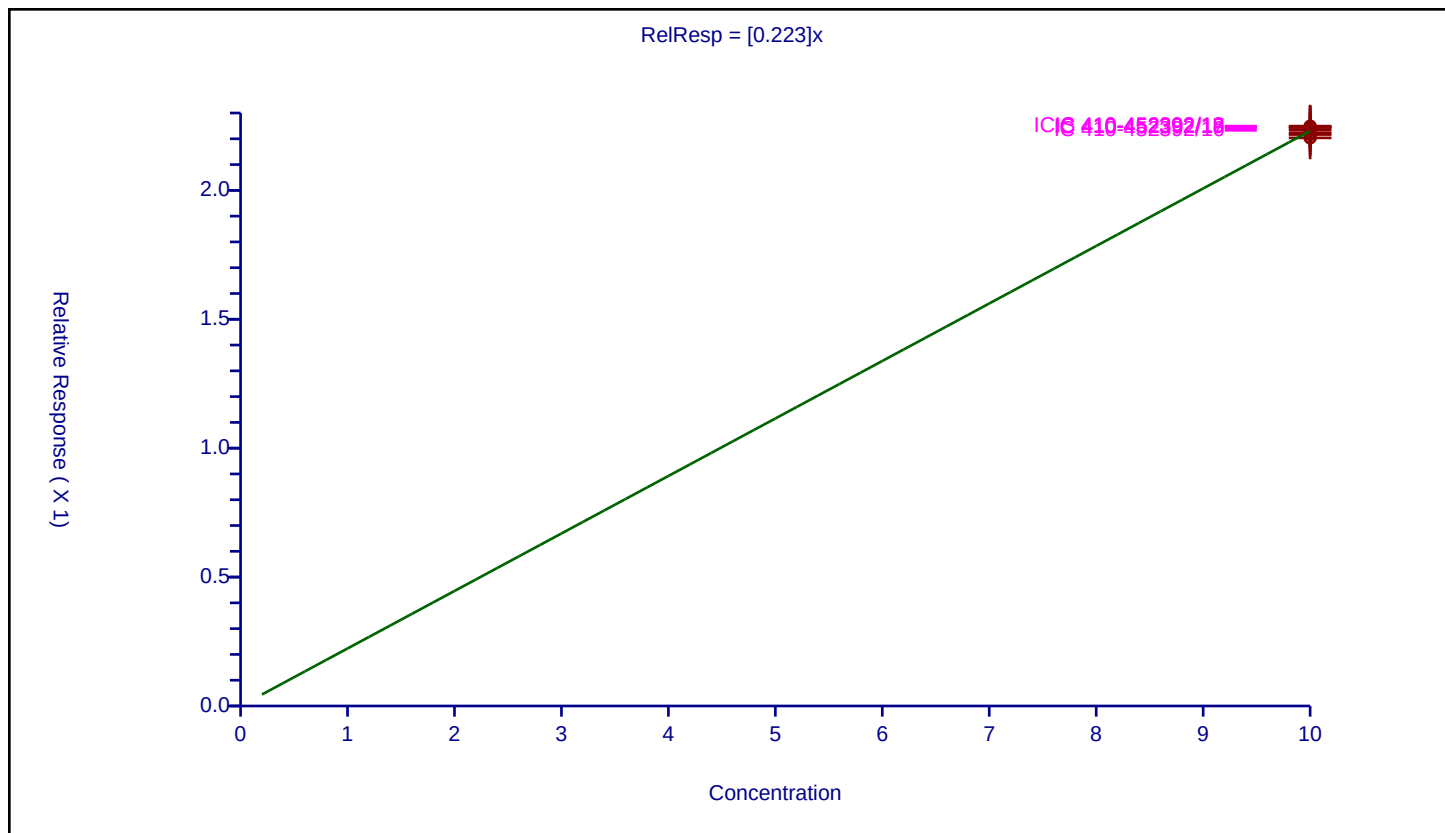
Curve Coefficients

Intercept: 0
 Slope: 0.223

Error Coefficients

Standard Error: 495000
 Relative Standard Error: 0.8
 Correlation Coefficient: NA
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	10.0	2.203504	10.0	2047394.0	0.22035	Y
2	IC 410-452392/14	10.0	2.221939	10.0	2025434.0	0.222194	Y
3	IC 410-452392/15	10.0	2.21641	10.0	2044405.0	0.221641	Y
4	IC 410-452392/16	10.0	2.232831	10.0	2031703.0	0.223283	Y
5	IC 410-452392/17	10.0	2.24528	10.0	2042373.0	0.224528	Y
6	ICIS 410-452392/18	10.0	2.249135	10.0	2054434.0	0.224914	Y
7	IC 410-452392/19	10.0	2.243326	10.0	2125786.0	0.224333	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

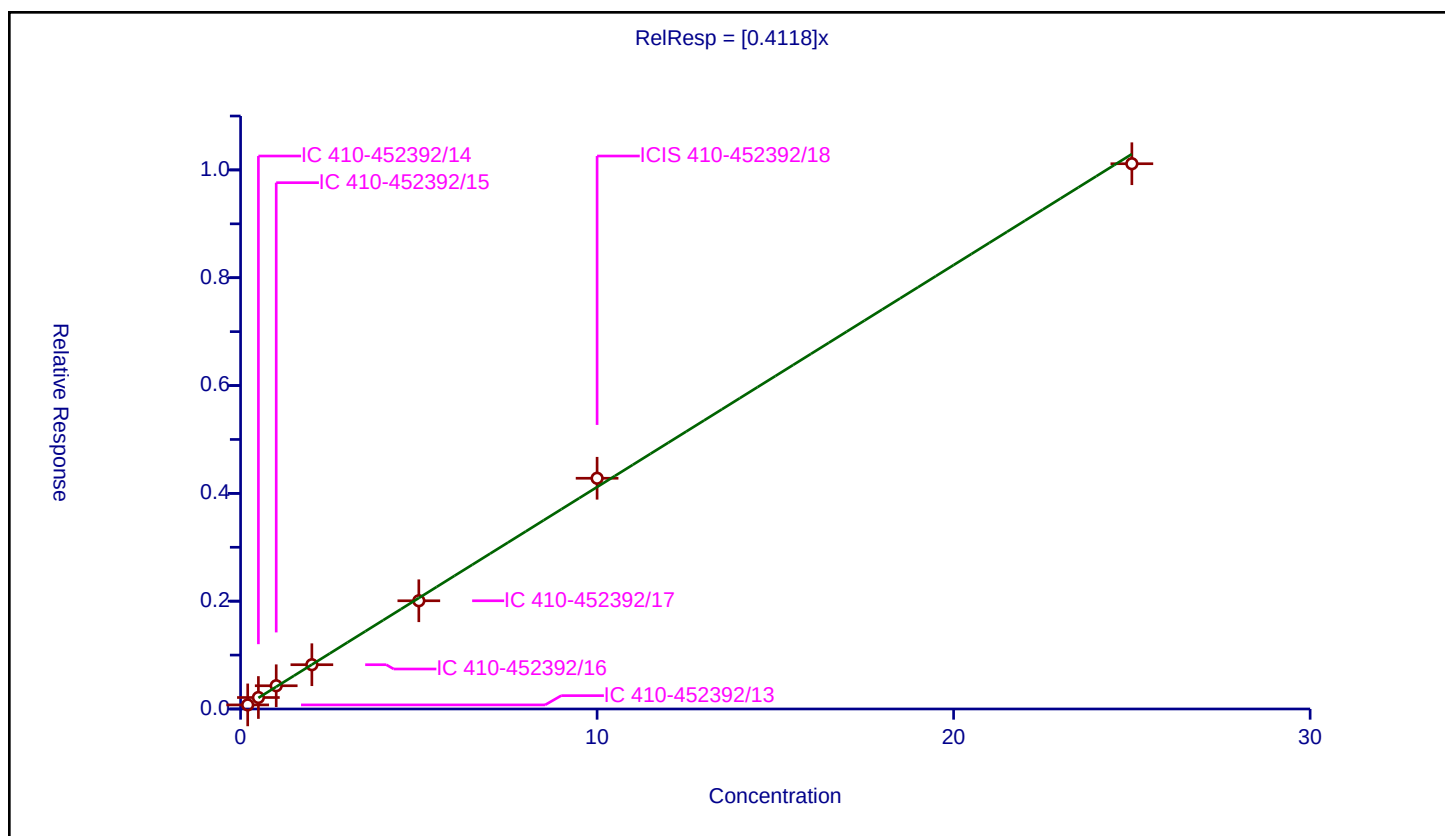
Curve Coefficients

Intercept: 0
Slope: 0.4118

Error Coefficients

Standard Error: 966000
Relative Standard Error: 4.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.076092	10.0	2047394.0	0.380459	Y
2	IC 410-452392/14	0.5	0.213001	10.0	2025434.0	0.426003	Y
3	IC 410-452392/15	1.0	0.430937	10.0	2044405.0	0.430937	Y
4	IC 410-452392/16	2.0	0.821498	10.0	2031703.0	0.410749	Y
5	IC 410-452392/17	5.0	2.007523	10.0	2042373.0	0.401505	Y
6	ICIS 410-452392/18	10.0	4.280235	10.0	2054434.0	0.428023	Y
7	IC 410-452392/19	25.0	10.115143	10.0	2125786.0	0.404606	Y



Calibration

/ Cyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

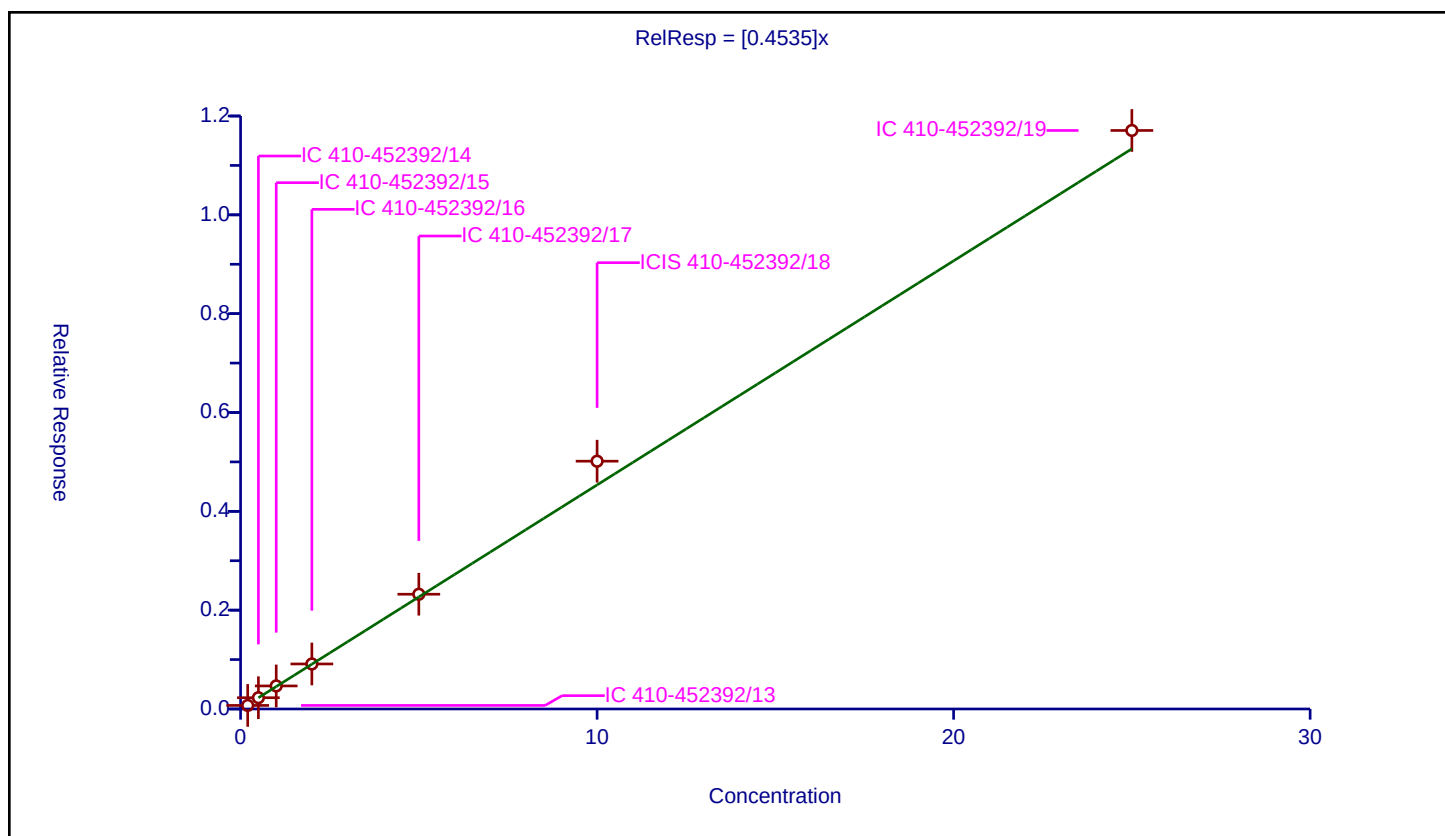
Curve Coefficients

Intercept: 0
Slope: 0.4535

Error Coefficients

Standard Error: 1120000
Relative Standard Error: 9.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.072307	10.0	2047394.0	0.361533	Y
2	IC 410-452392/14	0.5	0.227986	10.0	2025434.0	0.455971	Y
3	IC 410-452392/15	1.0	0.466688	10.0	2044405.0	0.466688	Y
4	IC 410-452392/16	2.0	0.911467	10.0	2031703.0	0.455733	Y
5	IC 410-452392/17	5.0	2.322411	10.0	2042373.0	0.464482	Y
6	ICIS 410-452392/18	10.0	5.014603	10.0	2054434.0	0.50146	Y
7	IC 410-452392/19	25.0	11.707397	10.0	2125786.0	0.468296	Y



Calibration

/ Carbon tetrachloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

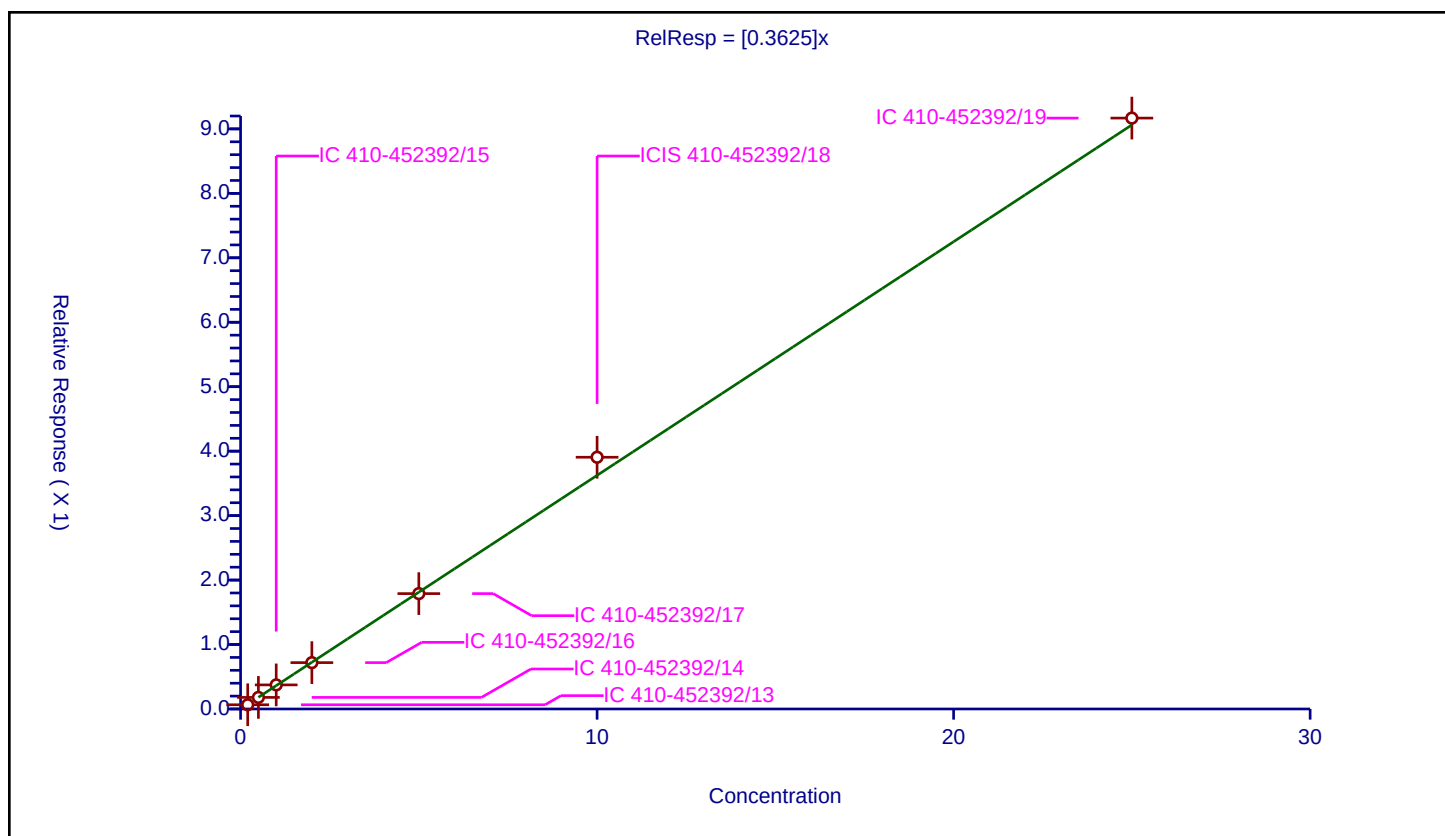
Curve Coefficients

Intercept: 0
Slope: 0.3625

Error Coefficients

Standard Error: 876000
Relative Standard Error: 5.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.065767	10.0	2047394.0	0.328833	Y
2	IC 410-452392/14	0.5	0.179932	10.0	2025434.0	0.359864	Y
3	IC 410-452392/15	1.0	0.373835	10.0	2044405.0	0.373835	Y
4	IC 410-452392/16	2.0	0.719081	10.0	2031703.0	0.359541	Y
5	IC 410-452392/17	5.0	1.790192	10.0	2042373.0	0.358038	Y
6	ICIS 410-452392/18	10.0	3.905888	10.0	2054434.0	0.390589	Y
7	IC 410-452392/19	25.0	9.16787	10.0	2125786.0	0.366715	Y



Calibration

/ 1,1-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

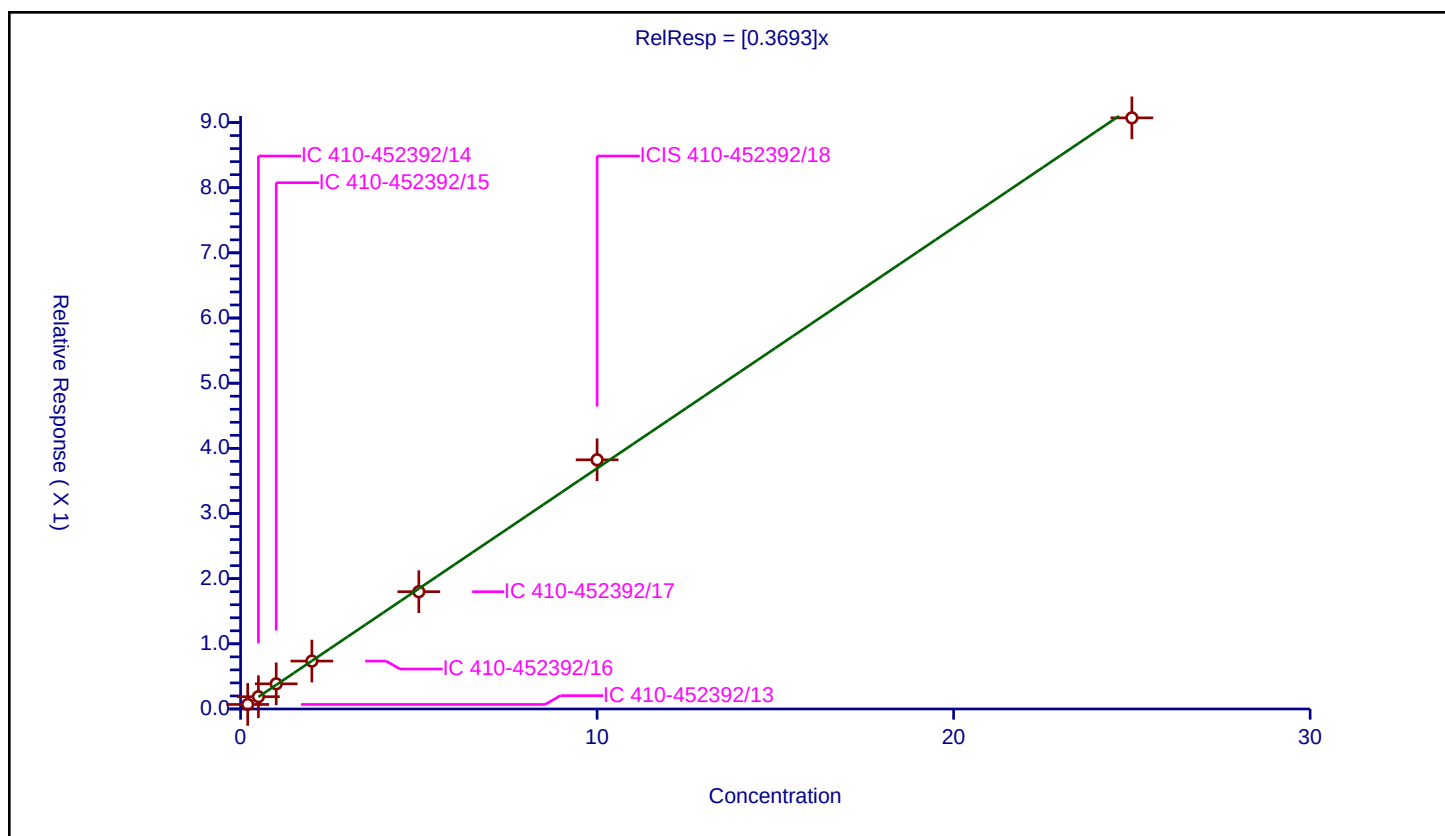
Curve Coefficients

Intercept: 0
Slope: 0.3693

Error Coefficients

Standard Error: 866000
Relative Standard Error: 3.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.069938	10.0	2047394.0	0.349688	Y
2	IC 410-452392/14	0.5	0.188394	10.0	2025434.0	0.376788	Y
3	IC 410-452392/15	1.0	0.386029	10.0	2044405.0	0.386029	Y
4	IC 410-452392/16	2.0	0.735058	10.0	2031703.0	0.367529	Y
5	IC 410-452392/17	5.0	1.799823	10.0	2042373.0	0.359965	Y
6	ICIS 410-452392/18	10.0	3.823924	10.0	2054434.0	0.382392	Y
7	IC 410-452392/19	25.0	9.071567	10.0	2125786.0	0.362863	Y



Calibration

/ Isobutyl alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

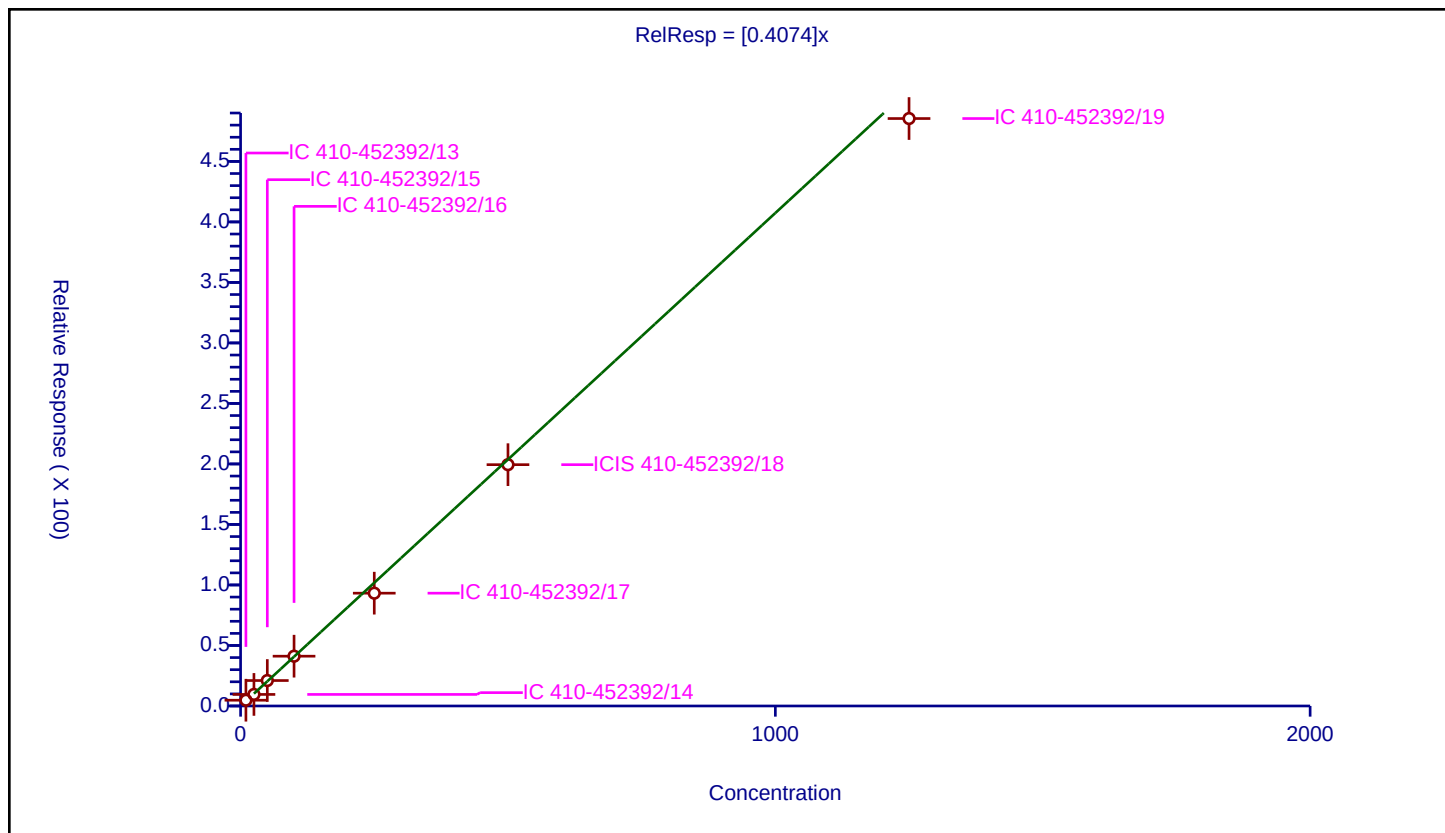
Curve Coefficients

Intercept: 0
Slope: 0.4074

Error Coefficients

Standard Error: 629000
Relative Standard Error: 8.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	10.0	4.774833	50.0	144204.0	0.477483	Y
2	IC 410-452392/14	25.0	9.545728	50.0	141435.0	0.381829	Y
3	IC 410-452392/15	50.0	21.03877	50.0	137066.0	0.420775	Y
4	IC 410-452392/16	100.0	41.145899	50.0	135361.0	0.411459	Y
5	IC 410-452392/17	250.0	93.230548	50.0	137958.0	0.372922	Y
6	ICIS 410-452392/18	500.0	199.422709	50.0	140657.0	0.398845	Y
7	IC 410-452392/19	1250.0	485.444304	50.0	144957.0	0.388355	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

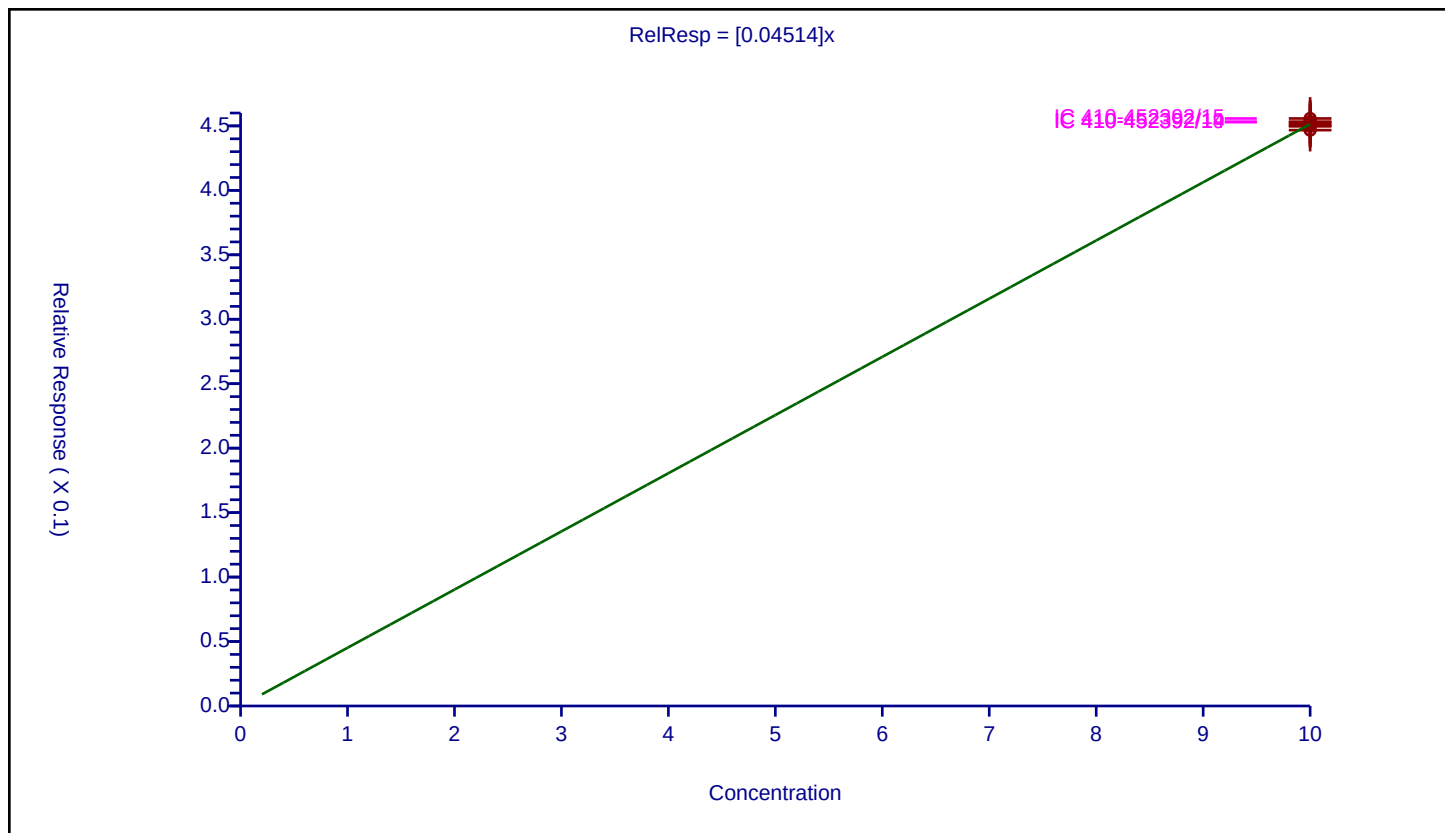
Curve Coefficients

Intercept: 0
 Slope: 0.04514

Error Coefficients

Standard Error: 100000
 Relative Standard Error: 0.6
 Correlation Coefficient: 0.00000000000000000000
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	10.0	0.450231	10.0	2047394.0	0.045023	Y
2	IC 410-452392/14	10.0	0.452915	10.0	2025434.0	0.045292	Y
3	IC 410-452392/15	10.0	0.455751	10.0	2044405.0	0.045575	Y
4	IC 410-452392/16	10.0	0.451252	10.0	2031703.0	0.045125	Y
5	IC 410-452392/17	10.0	0.446711	10.0	2042373.0	0.044671	Y
6	ICIS 410-452392/18	10.0	0.449657	10.0	2054434.0	0.044966	Y
7	IC 410-452392/19	10.0	0.45323	10.0	2125786.0	0.045323	Y



Calibration

/ Benzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

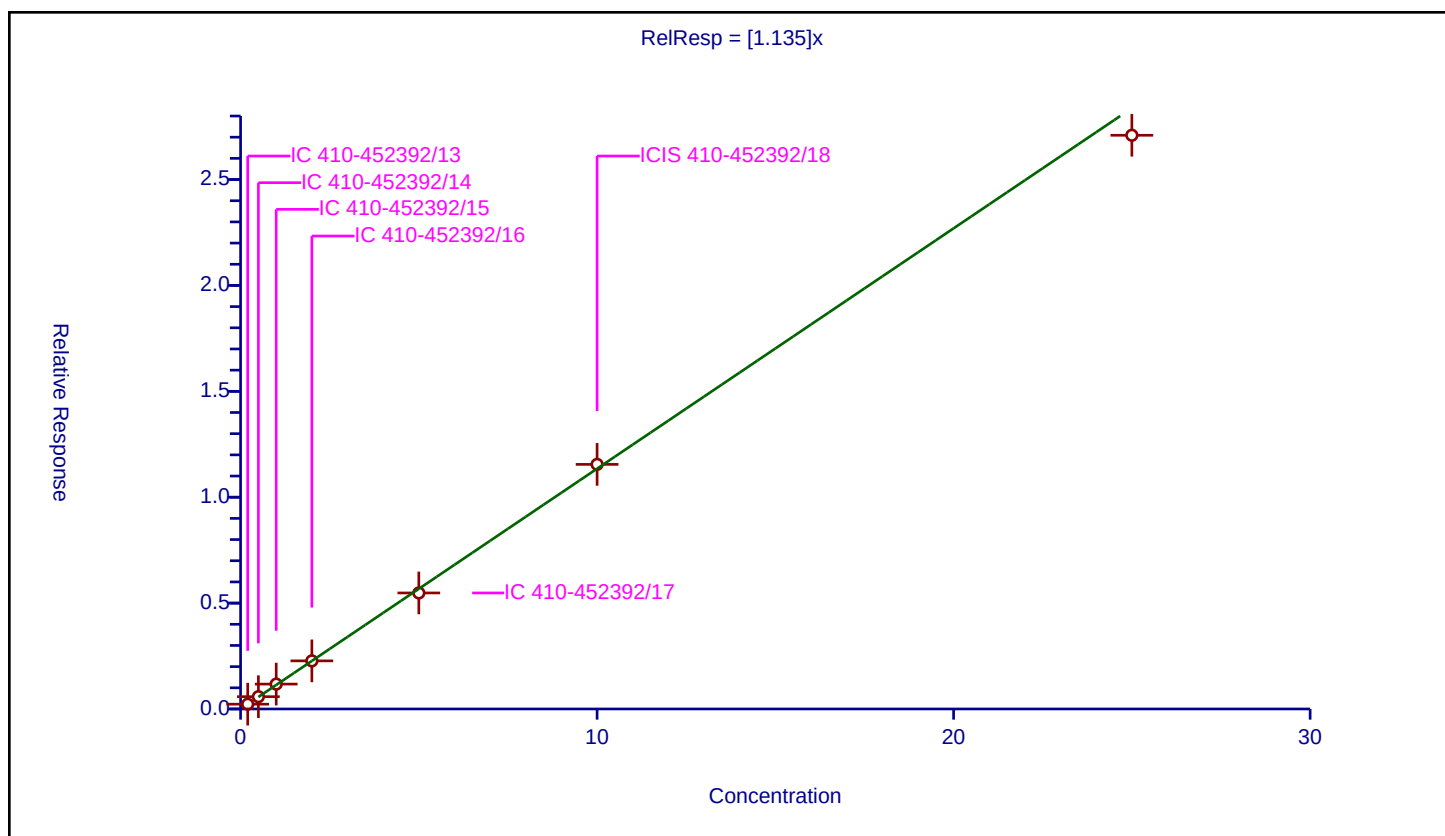
Curve Coefficients

Intercept: 0
Slope: 1.135

Error Coefficients

Standard Error: 2590000
Relative Standard Error: 3.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.226981	10.0	2047394.0	1.134906	Y
2	IC 410-452392/14	0.5	0.581016	10.0	2025434.0	1.162032	Y
3	IC 410-452392/15	1.0	1.175834	10.0	2044405.0	1.175834	Y
4	IC 410-452392/16	2.0	2.272419	10.0	2031703.0	1.136209	Y
5	IC 410-452392/17	5.0	5.479685	10.0	2042373.0	1.095937	Y
6	ICIS 410-452392/18	10.0	11.550116	10.0	2054434.0	1.155012	Y
7	IC 410-452392/19	25.0	27.090921	10.0	2125786.0	1.083637	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

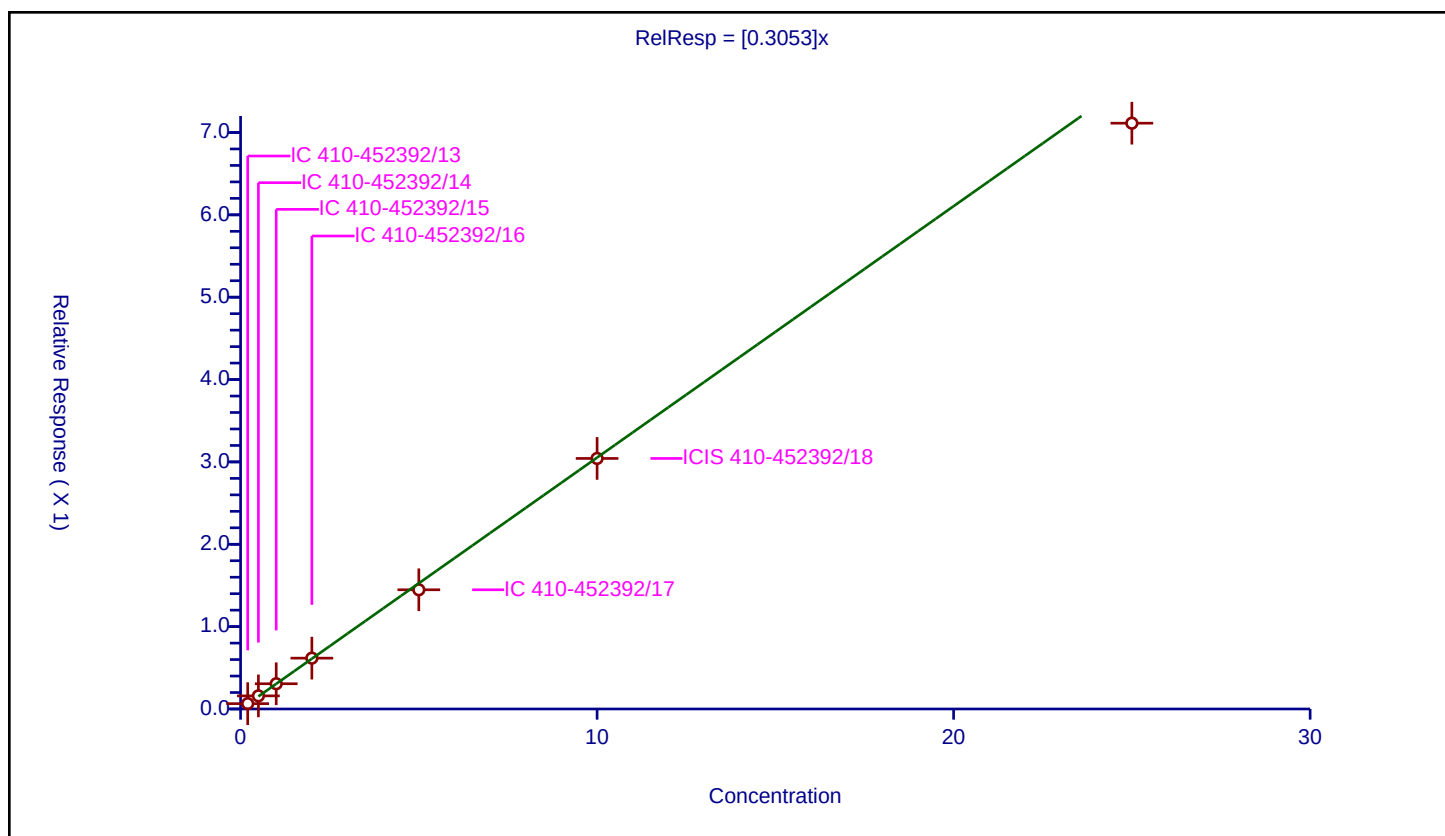
Curve Coefficients

Intercept: 0
 Slope: 0.3053

Error Coefficients

Standard Error: 681000
 Relative Standard Error: 4.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.065034	10.0	2047394.0	0.325169	Y
2	IC 410-452392/14	0.5	0.159171	10.0	2025434.0	0.318342	Y
3	IC 410-452392/15	1.0	0.306412	10.0	2044405.0	0.306412	Y
4	IC 410-452392/16	2.0	0.617275	10.0	2031703.0	0.308638	Y
5	IC 410-452392/17	5.0	1.447385	10.0	2042373.0	0.289477	Y
6	ICIS 410-452392/18	10.0	3.042264	10.0	2054434.0	0.304226	Y
7	IC 410-452392/19	25.0	7.113044	10.0	2125786.0	0.284522	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

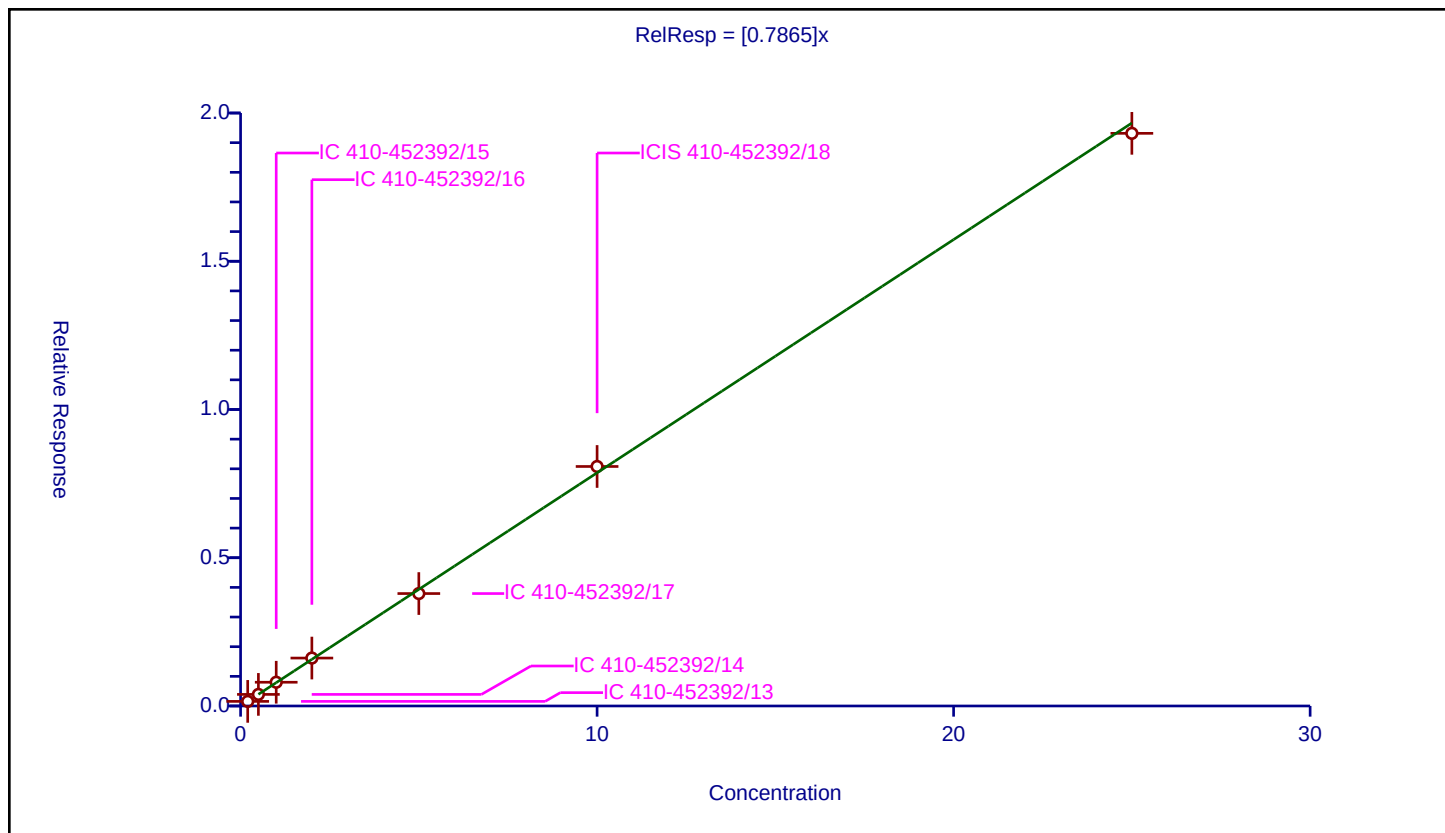
Curve Coefficients

Intercept: 0
Slope: 0.7865

Error Coefficients

Standard Error: 1840000
Relative Standard Error: 2.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.155261	10.0	2047394.0	0.776304	Y
2	IC 410-452392/14	0.5	0.390751	10.0	2025434.0	0.781502	Y
3	IC 410-452392/15	1.0	0.800918	10.0	2044405.0	0.800918	Y
4	IC 410-452392/16	2.0	1.616309	10.0	2031703.0	0.808155	Y
5	IC 410-452392/17	5.0	3.792138	10.0	2042373.0	0.758428	Y
6	ICIS 410-452392/18	10.0	8.078069	10.0	2054434.0	0.807807	Y
7	IC 410-452392/19	25.0	19.314254	10.0	2125786.0	0.77257	Y



Calibration

/ n-Heptane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

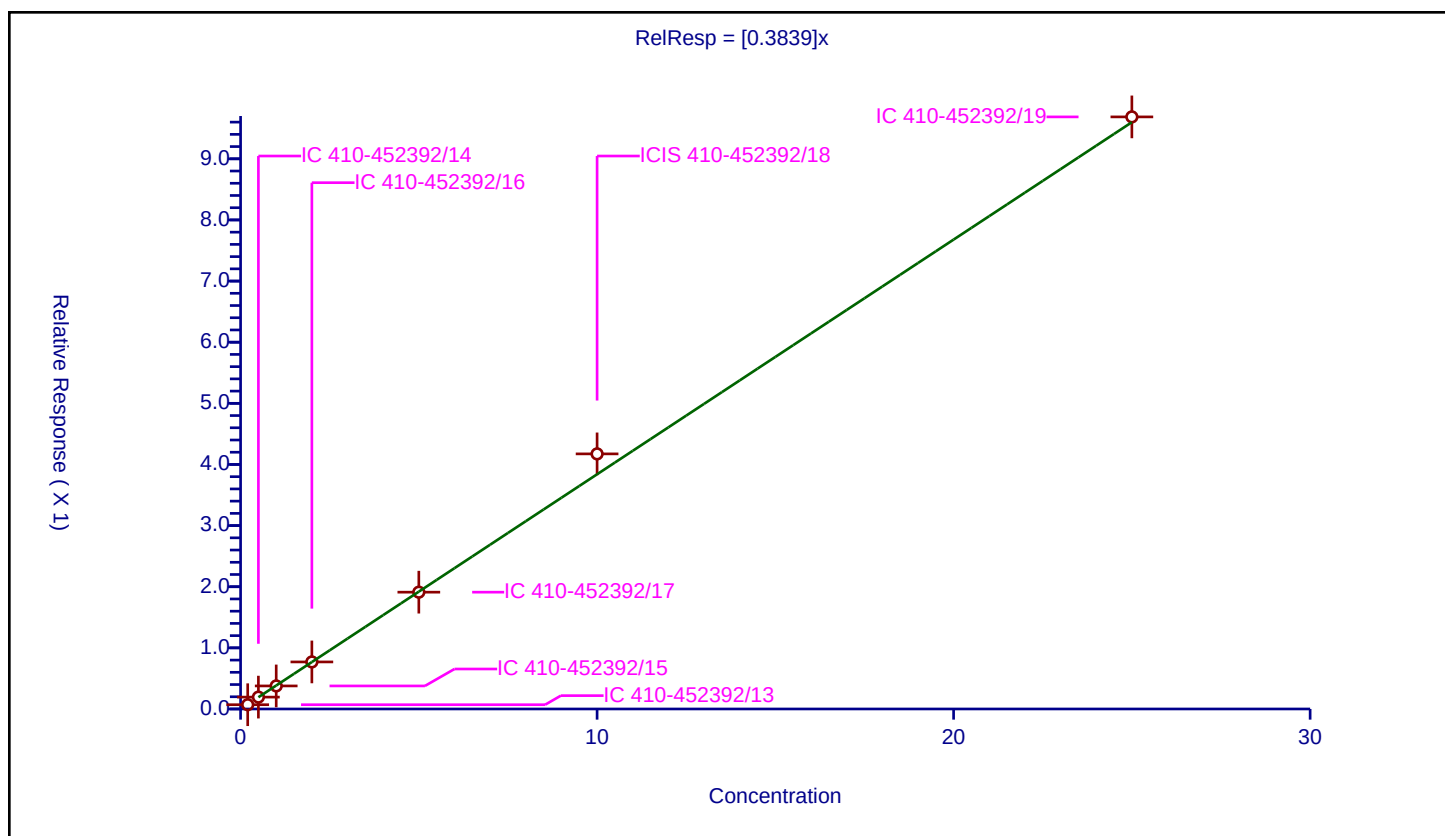
Curve Coefficients

Intercept: 0
Slope: 0.3839

Error Coefficients

Standard Error: 927000
Relative Standard Error: 5.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.070055	10.0	2047394.0	0.350275	Y
2	IC 410-452392/14	0.5	0.194195	10.0	2025434.0	0.388391	Y
3	IC 410-452392/15	1.0	0.376985	10.0	2044405.0	0.376985	Y
4	IC 410-452392/16	2.0	0.769876	10.0	2031703.0	0.384938	Y
5	IC 410-452392/17	5.0	1.911066	10.0	2042373.0	0.382213	Y
6	ICIS 410-452392/18	10.0	4.173057	10.0	2054434.0	0.417306	Y
7	IC 410-452392/19	25.0	9.68566	10.0	2125786.0	0.387426	Y



Calibration

/ n-Butanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

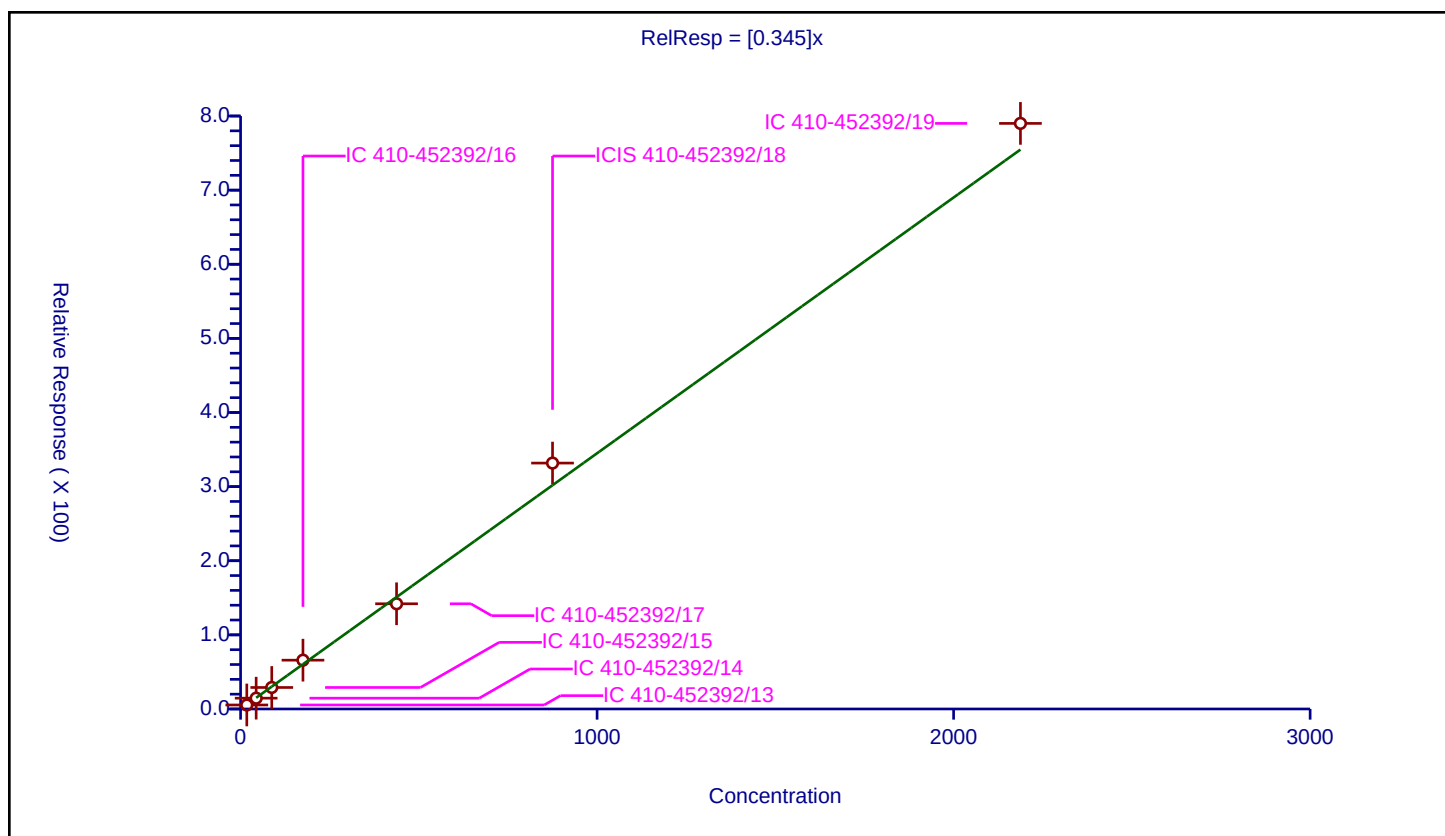
Curve Coefficients

Intercept: 0
Slope: 0.345

Error Coefficients

Standard Error: 1030000
Relative Standard Error: 7.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	17.5	5.398255	50.0	144204.0	0.308472	Y
2	IC 410-452392/14	43.75	14.603175	50.0	141435.0	0.333787	Y
3	IC 410-452392/15	87.5	29.018137	50.0	137066.0	0.331636	Y
4	IC 410-452392/16	175.0	65.87274	50.0	135361.0	0.376416	Y
5	IC 410-452392/17	437.5	141.952261	50.0	137958.0	0.324462	Y
6	ICIS 410-452392/18	875.0	331.772681	50.0	140657.0	0.379169	Y
7	IC 410-452392/19	2187.5	790.026353	50.0	144957.0	0.361155	Y



Calibration

/ Trichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

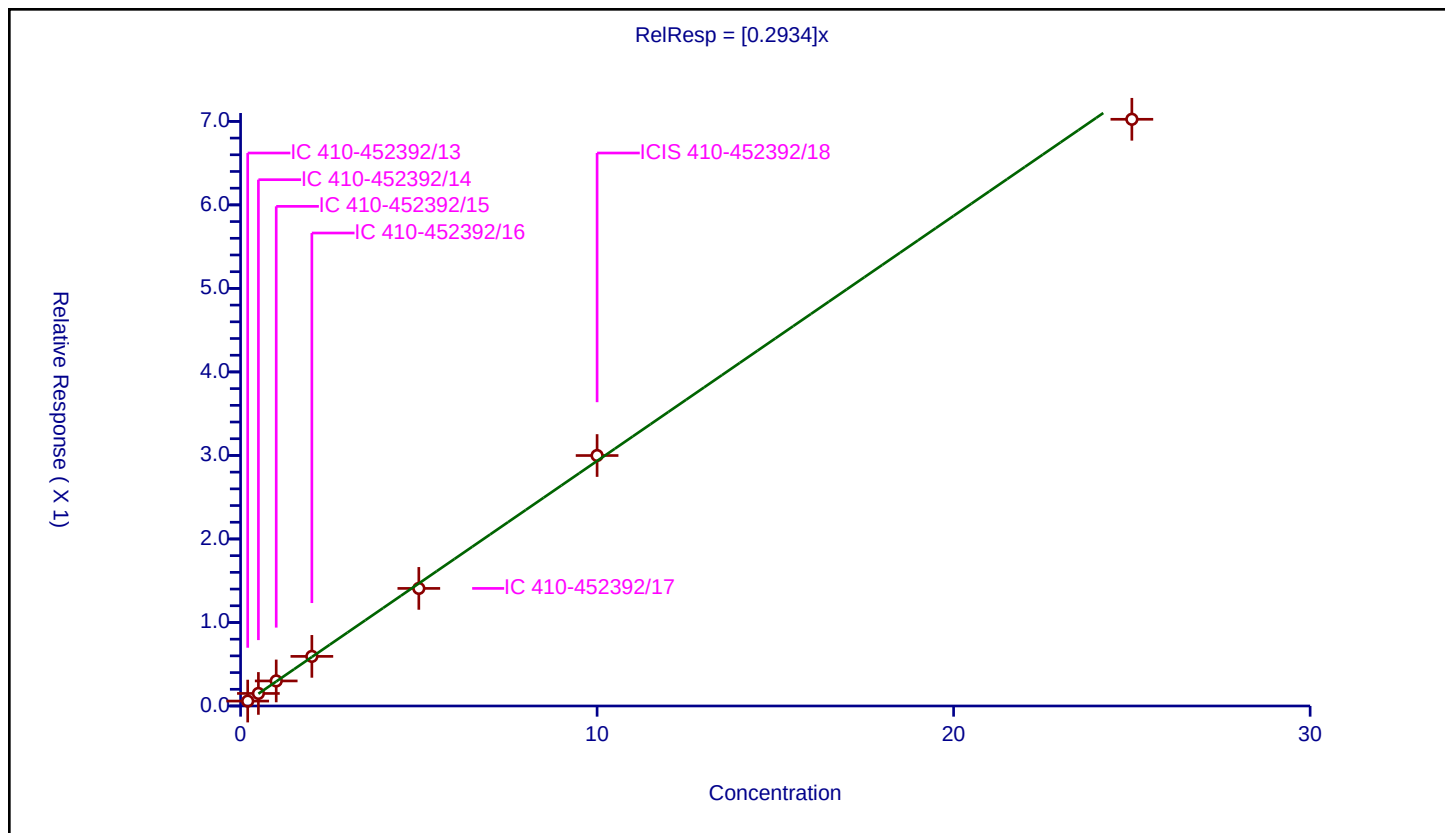
Curve Coefficients

Intercept: 0
Slope: 0.2934

Error Coefficients

Standard Error: 672000
Relative Standard Error: 2.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.058758	10.0	2047394.0	0.293788	Y
2	IC 410-452392/14	0.5	0.150363	10.0	2025434.0	0.300726	Y
3	IC 410-452392/15	1.0	0.299897	10.0	2044405.0	0.299897	Y
4	IC 410-452392/16	2.0	0.594029	10.0	2031703.0	0.297014	Y
5	IC 410-452392/17	5.0	1.407779	10.0	2042373.0	0.281556	Y
6	ICIS 410-452392/18	10.0	2.998948	10.0	2054434.0	0.299895	Y
7	IC 410-452392/19	25.0	7.025049	10.0	2125786.0	0.281002	Y



Calibration

/ Methylcyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

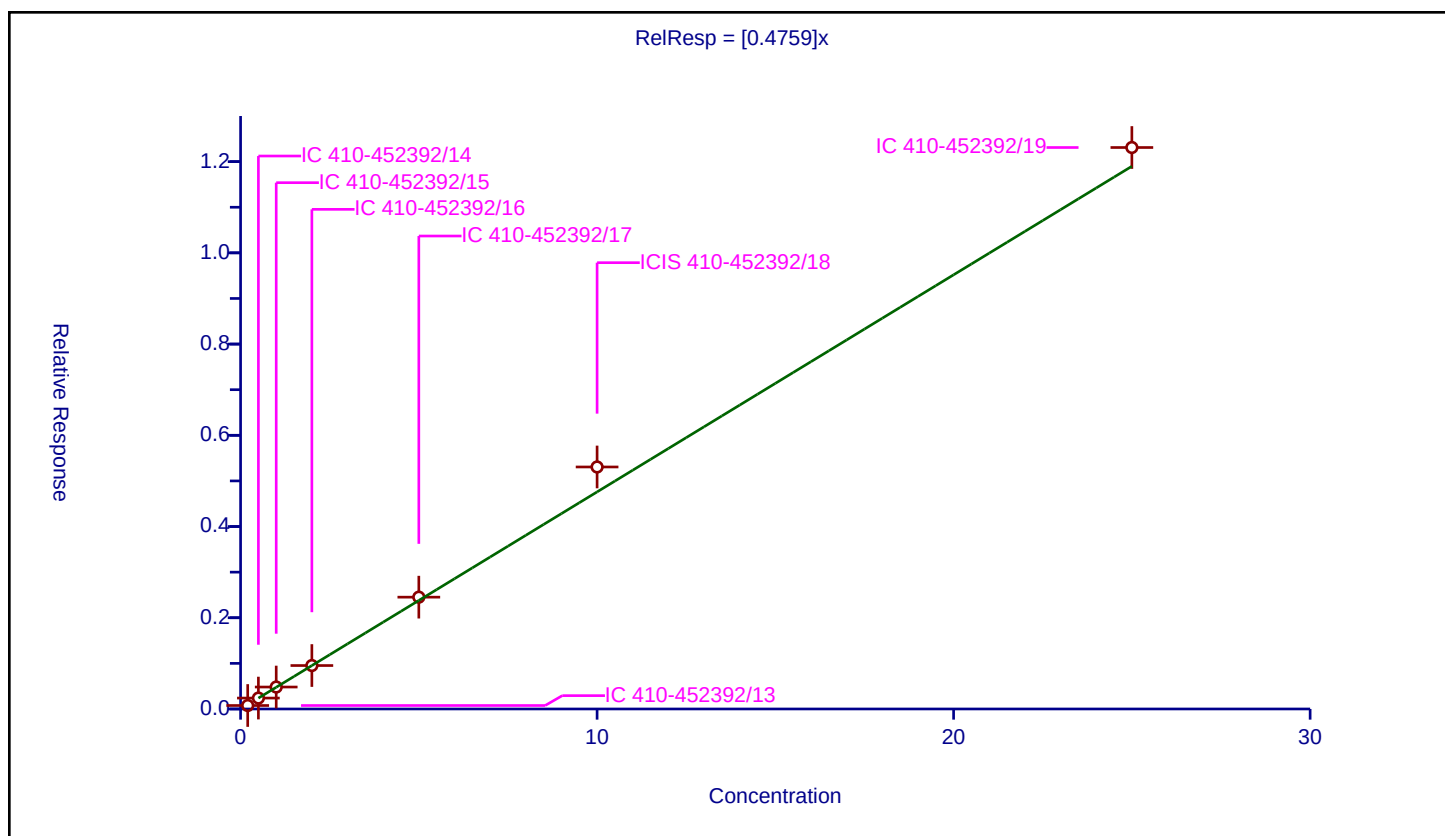
Curve Coefficients

Intercept: 0
Slope: 0.4759

Error Coefficients

Standard Error: 1180000
Relative Standard Error: 9.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.076404	10.0	2047394.0	0.382022	Y
2	IC 410-452392/14	0.5	0.239228	10.0	2025434.0	0.478455	Y
3	IC 410-452392/15	1.0	0.481363	10.0	2044405.0	0.481363	Y
4	IC 410-452392/16	2.0	0.952565	10.0	2031703.0	0.476283	Y
5	IC 410-452392/17	5.0	2.451888	10.0	2042373.0	0.490378	Y
6	ICIS 410-452392/18	10.0	5.305466	10.0	2054434.0	0.530547	Y
7	IC 410-452392/19	25.0	12.309485	10.0	2125786.0	0.492379	Y



Calibration

/ 1,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

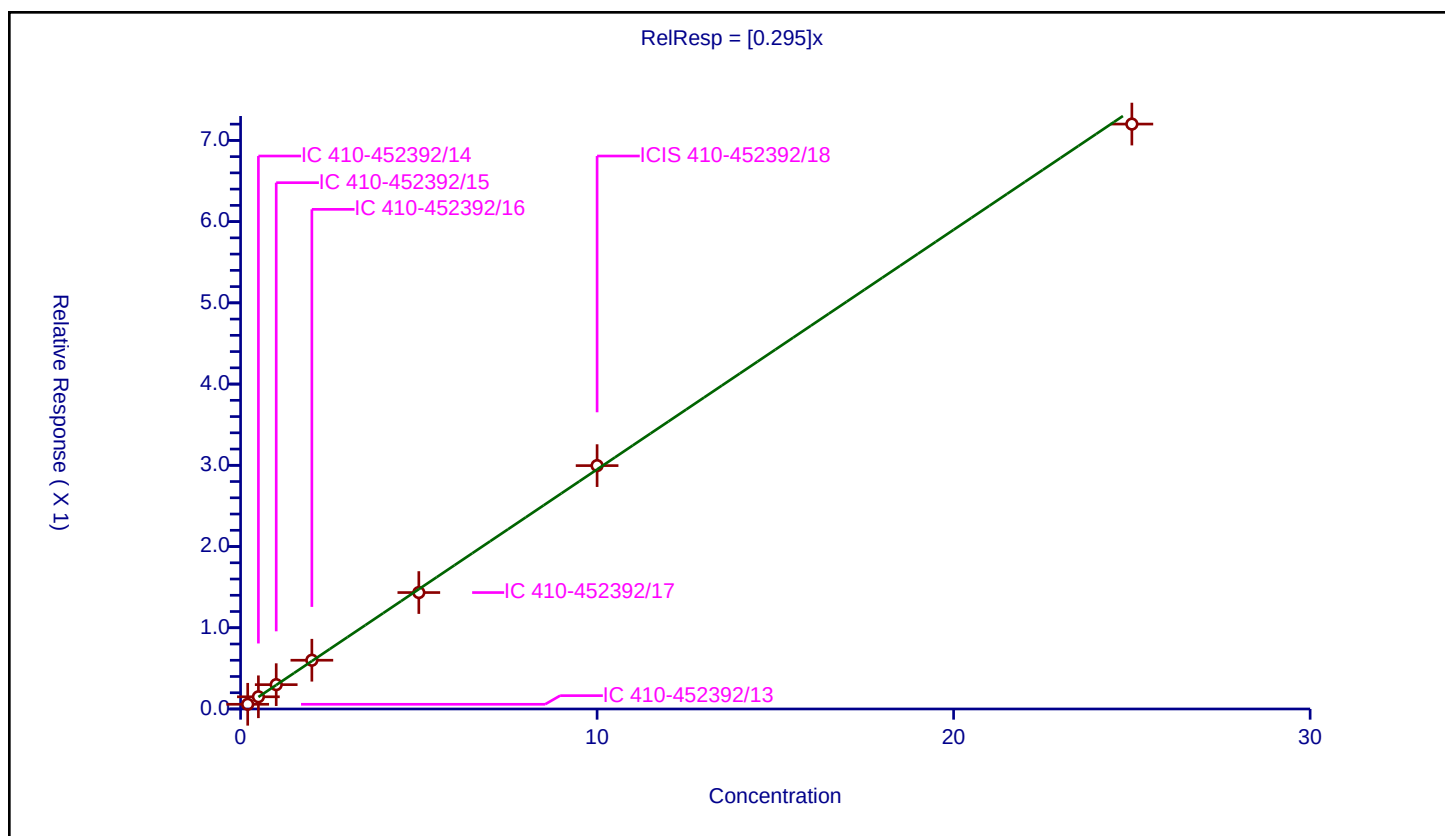
Curve Coefficients

Intercept: 0
 Slope: 0.295

Error Coefficients

Standard Error: 686000
 Relative Standard Error: 2.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.058035	10.0	2047394.0	0.290174	Y
2	IC 410-452392/14	0.5	0.150185	10.0	2025434.0	0.30037	Y
3	IC 410-452392/15	1.0	0.299657	10.0	2044405.0	0.299657	Y
4	IC 410-452392/16	2.0	0.60027	10.0	2031703.0	0.300135	Y
5	IC 410-452392/17	5.0	1.433489	10.0	2042373.0	0.286698	Y
6	ICIS 410-452392/18	10.0	2.996271	10.0	2054434.0	0.299627	Y
7	IC 410-452392/19	25.0	7.200941	10.0	2125786.0	0.288038	Y



Calibration

/ 1,4-Dioxane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

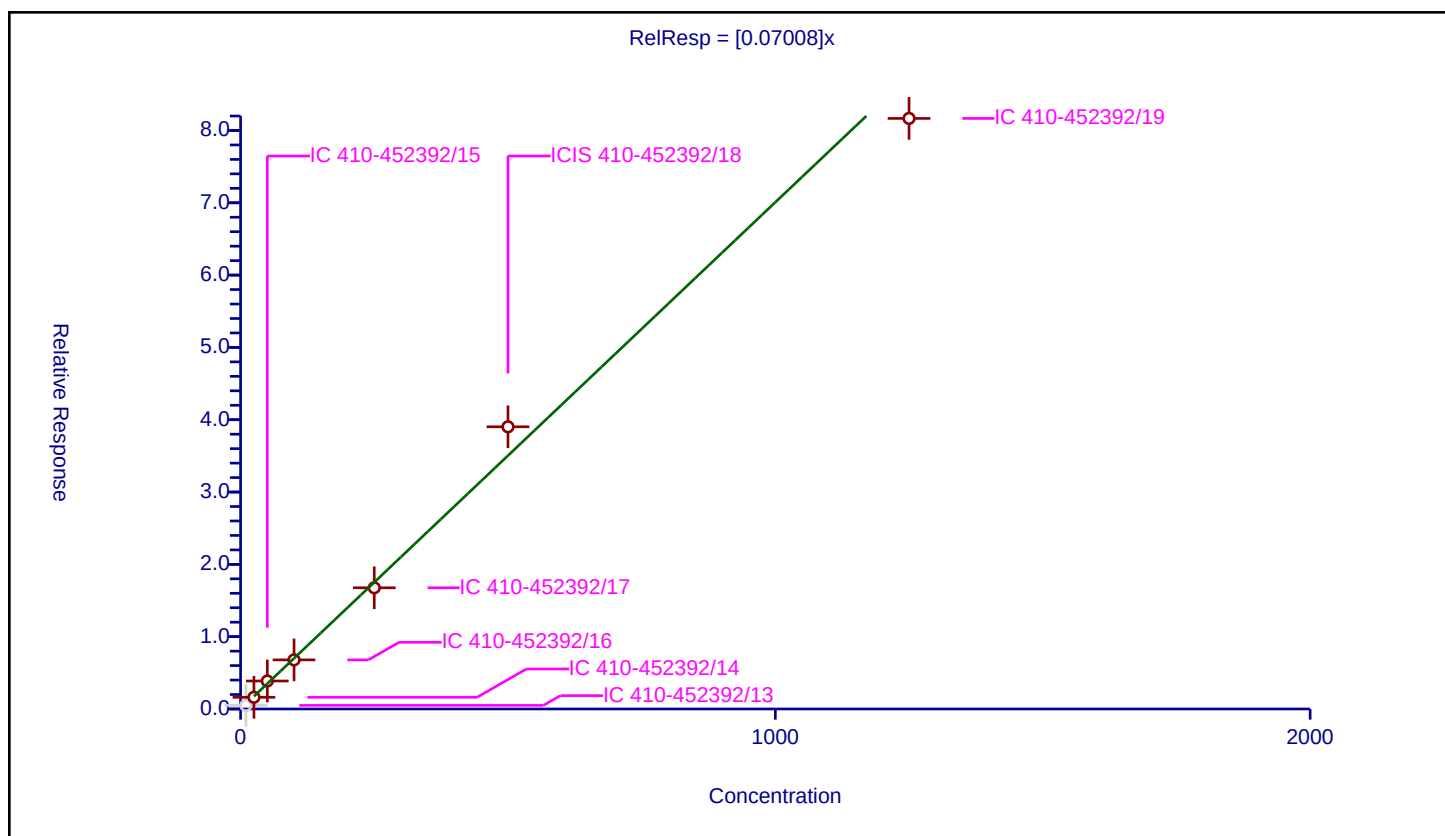
Curve Coefficients

Intercept: 0
Slope: 0.07008

Error Coefficients

Standard Error: 119000
Relative Standard Error: 8.6
Correlation Coefficient: 0.995
Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	10.0	0.494438	50.0	144204.0	0.049444	N
2	IC 410-452392/14	25.0	1.618765	50.0	141435.0	0.064751	Y
3	IC 410-452392/15	50.0	3.869669	50.0	137066.0	0.077393	Y
4	IC 410-452392/16	100.0	6.789991	50.0	135361.0	0.0679	Y
5	IC 410-452392/17	250.0	16.761623	50.0	137958.0	0.067046	Y
6	ICIS 410-452392/18	500.0	39.023653	50.0	140657.0	0.078047	Y
7	IC 410-452392/19	1250.0	81.667667	50.0	144957.0	0.065334	Y



Calibration

/ Dibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

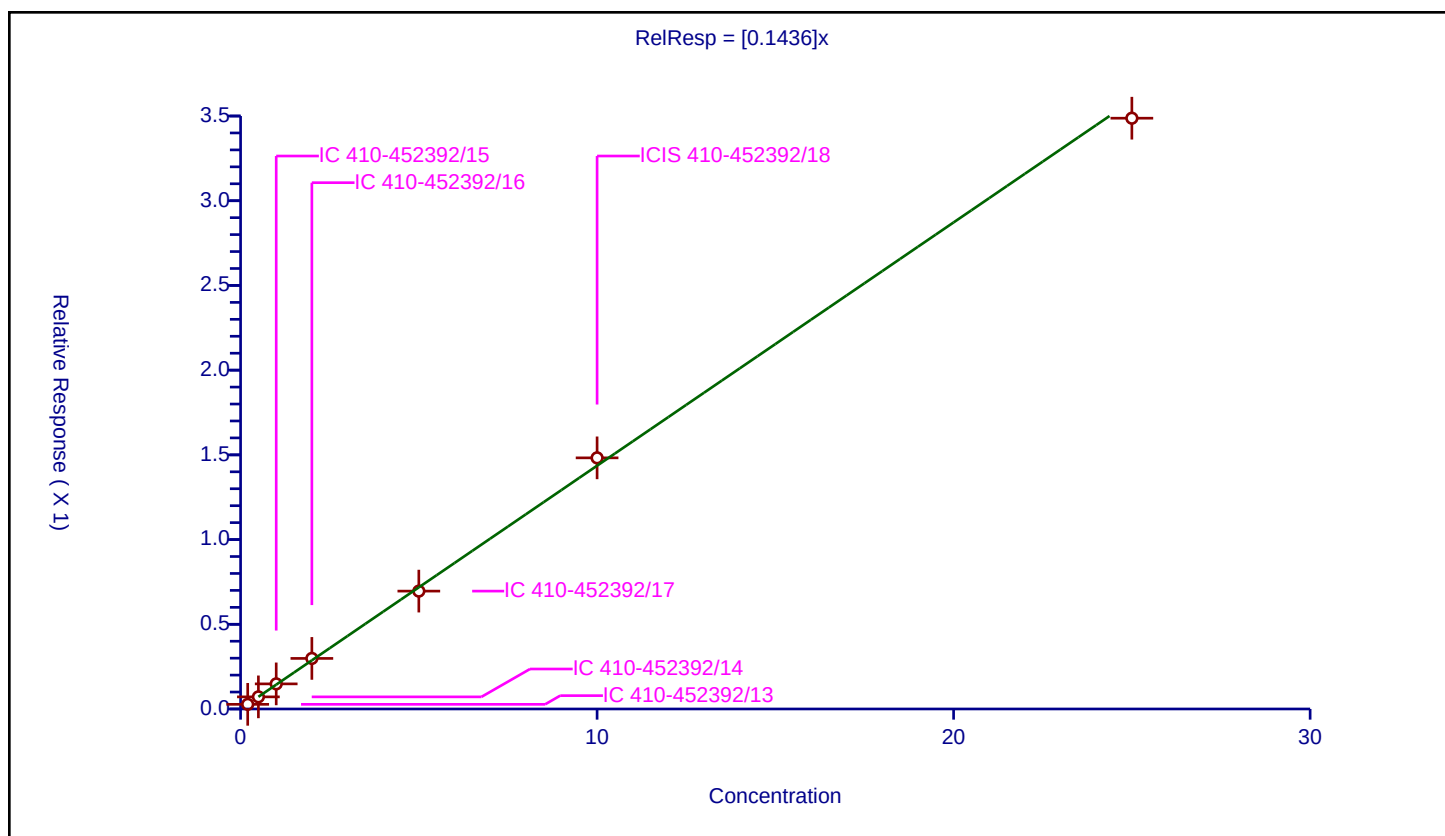
Curve Coefficients

Intercept: 0
Slope: 0.1436

Error Coefficients

Standard Error: 333000
Relative Standard Error: 3.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.027528	10.0	2047394.0	0.137638	Y
2	IC 410-452392/14	0.5	0.071614	10.0	2025434.0	0.143229	Y
3	IC 410-452392/15	1.0	0.148249	10.0	2044405.0	0.148249	Y
4	IC 410-452392/16	2.0	0.298439	10.0	2031703.0	0.14922	Y
5	IC 410-452392/17	5.0	0.69574	10.0	2042373.0	0.139148	Y
6	ICIS 410-452392/18	10.0	1.482282	10.0	2054434.0	0.148228	Y
7	IC 410-452392/19	25.0	3.487162	10.0	2125786.0	0.139486	Y



Calibration

/ Methyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

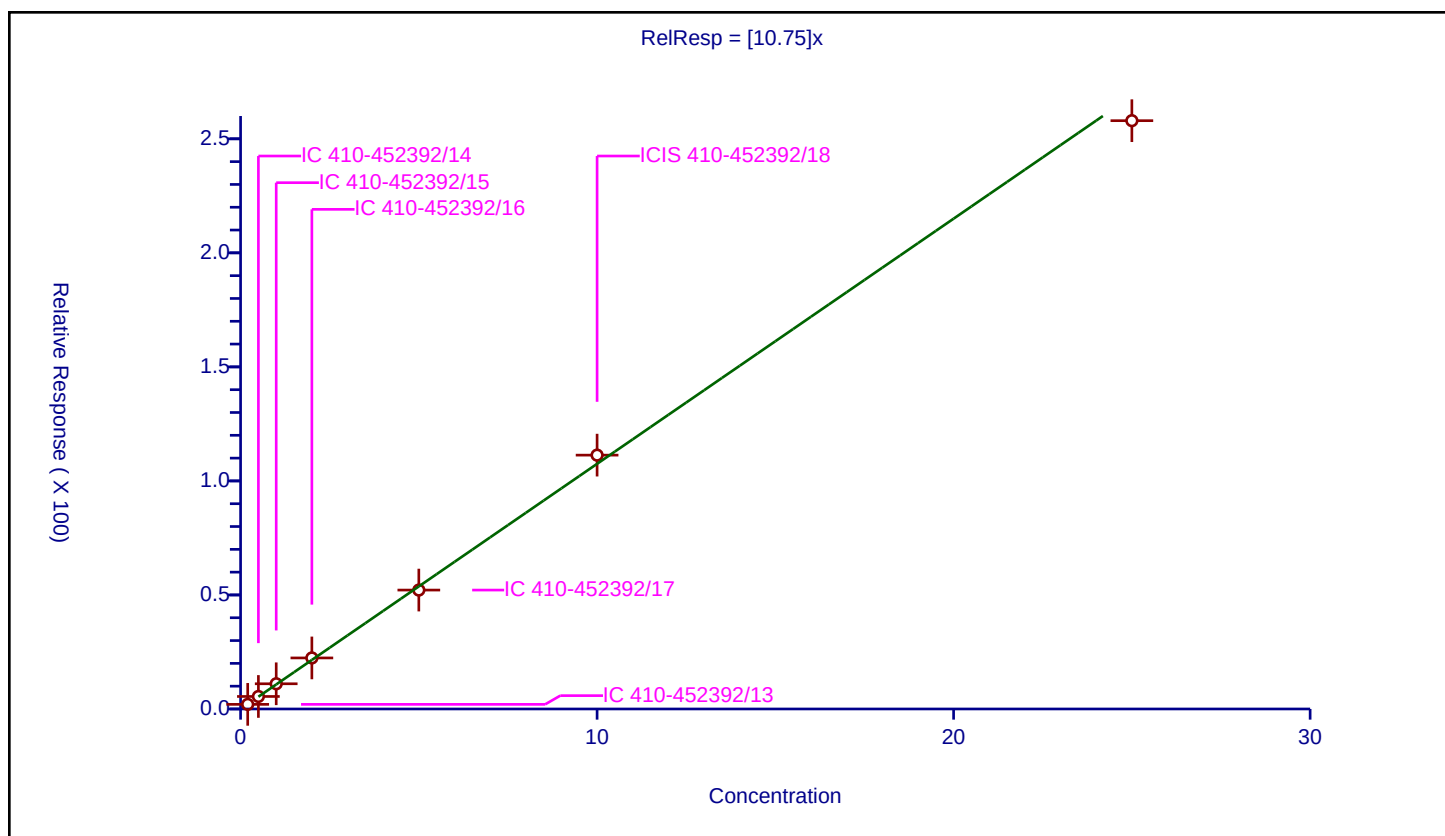
Curve Coefficients

Intercept: 0
Slope: 10.75

Error Coefficients

Standard Error: 337000
Relative Standard Error: 4.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	2.025949	50.0	144204.0	10.129747	Y
2	IC 410-452392/14	0.5	5.49369	50.0	141435.0	10.987379	Y
3	IC 410-452392/15	1.0	11.059271	50.0	137066.0	11.059271	Y
4	IC 410-452392/16	2.0	22.382739	50.0	135361.0	11.19137	Y
5	IC 410-452392/17	5.0	52.145943	50.0	137958.0	10.429189	Y
6	ICIS 410-452392/18	10.0	111.310848	50.0	140657.0	11.131085	Y
7	IC 410-452392/19	25.0	257.956842	50.0	144957.0	10.318274	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

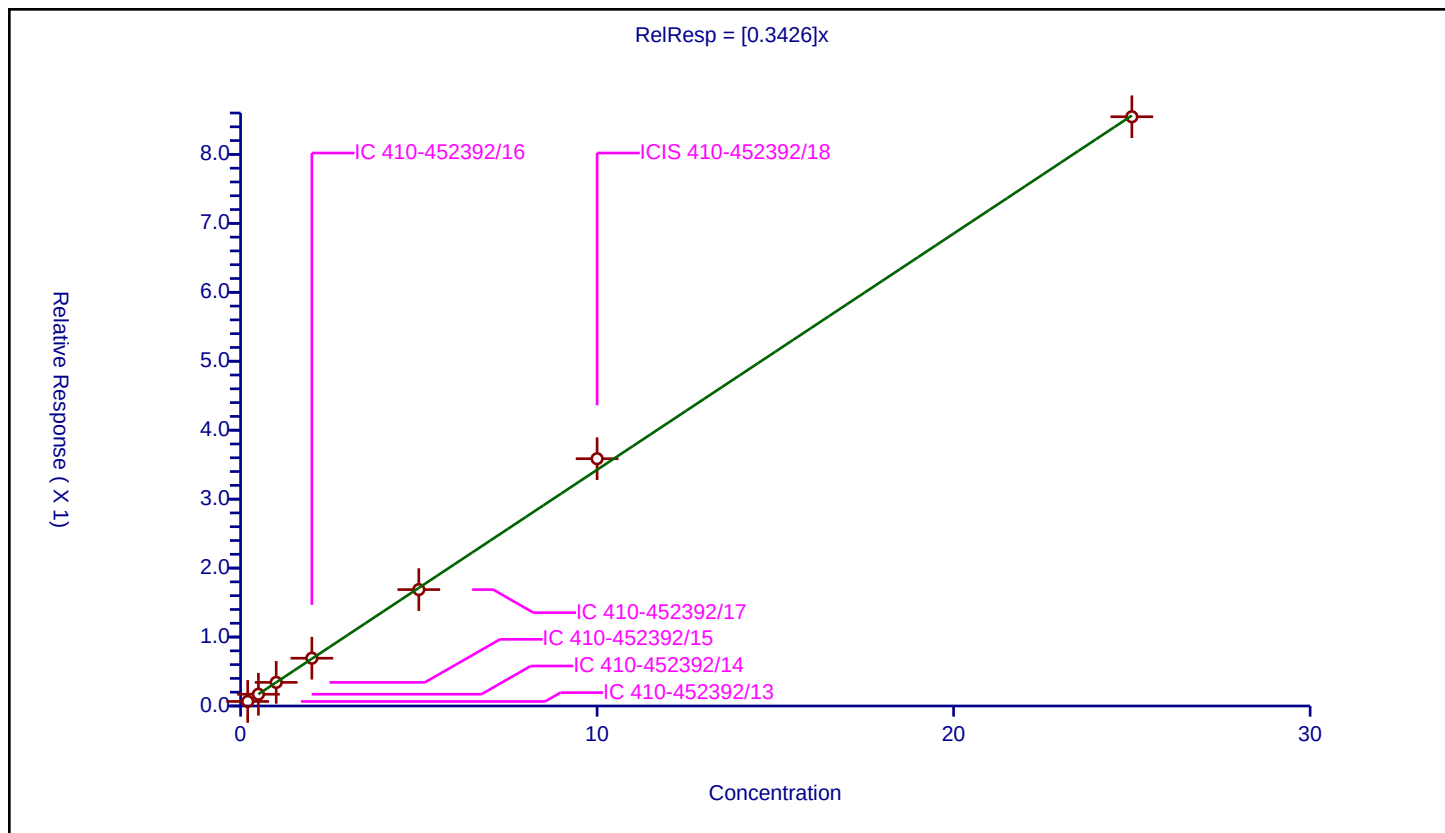
Curve Coefficients

Intercept: 0
 Slope: 0.3426

Error Coefficients

Standard Error: 815000
 Relative Standard Error: 2.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.065986	10.0	2047394.0	0.329932	Y
2	IC 410-452392/14	0.5	0.170393	10.0	2025434.0	0.340786	Y
3	IC 410-452392/15	1.0	0.342515	10.0	2044405.0	0.342515	Y
4	IC 410-452392/16	2.0	0.693044	10.0	2031703.0	0.346522	Y
5	IC 410-452392/17	5.0	1.688095	10.0	2042373.0	0.337619	Y
6	ICIS 410-452392/18	10.0	3.586579	10.0	2054434.0	0.358658	Y
7	IC 410-452392/19	25.0	8.54578	10.0	2125786.0	0.341831	Y



Calibration

/ 2-Nitropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

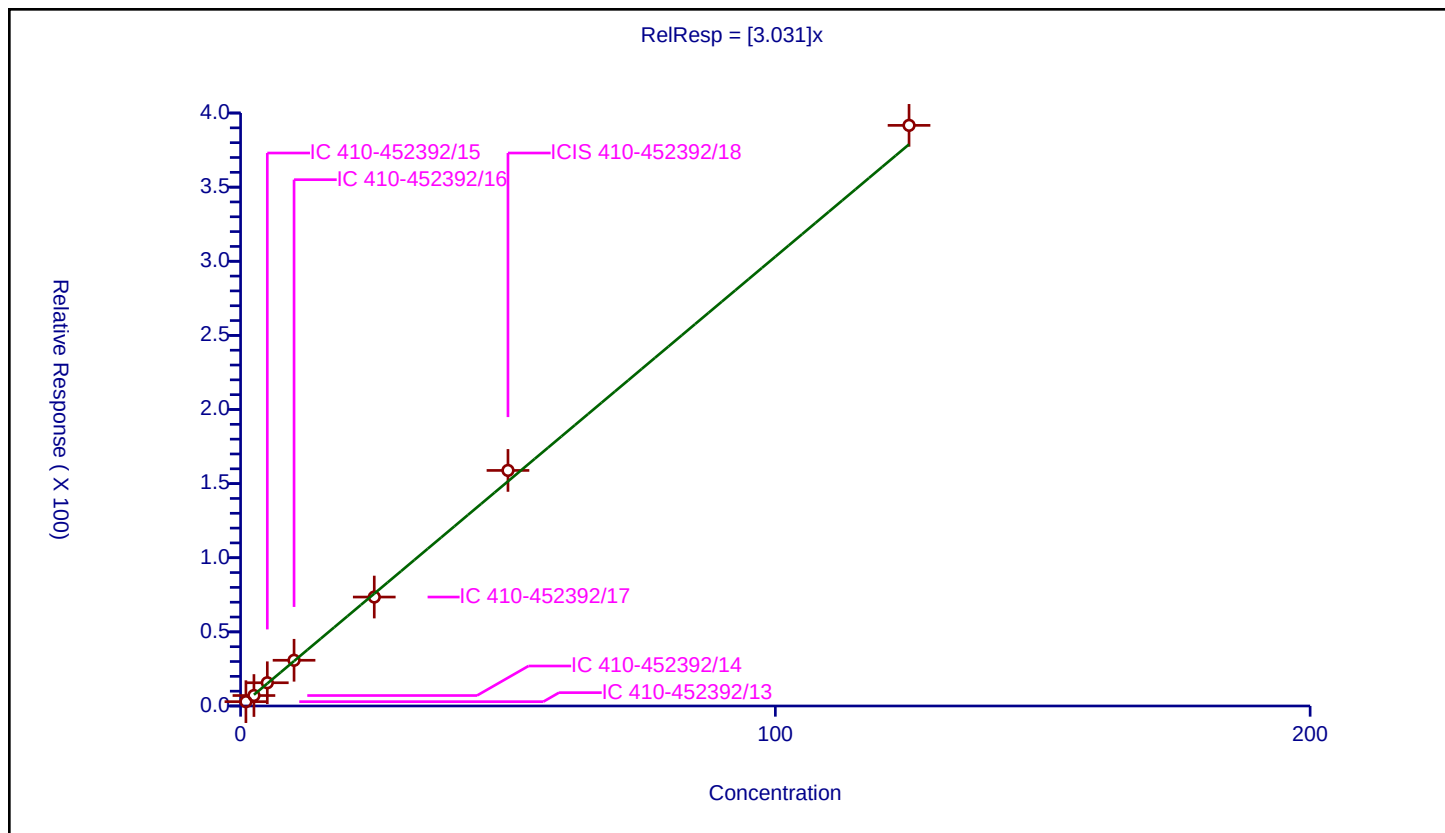
Curve Coefficients

Intercept: 0
Slope: 3.031

Error Coefficients

Standard Error: 506000
Relative Standard Error: 4.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	1.0	2.920515	50.0	144204.0	2.920515	Y
2	IC 410-452392/14	2.5	7.067204	50.0	141435.0	2.826882	Y
3	IC 410-452392/15	5.0	15.676025	50.0	137066.0	3.135205	Y
4	IC 410-452392/16	10.0	30.834583	50.0	135361.0	3.083458	Y
5	IC 410-452392/17	25.0	73.483234	50.0	137958.0	2.939329	Y
6	ICIS 410-452392/18	50.0	158.897531	50.0	140657.0	3.177951	Y
7	IC 410-452392/19	125.0	391.677187	50.0	144957.0	3.133417	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

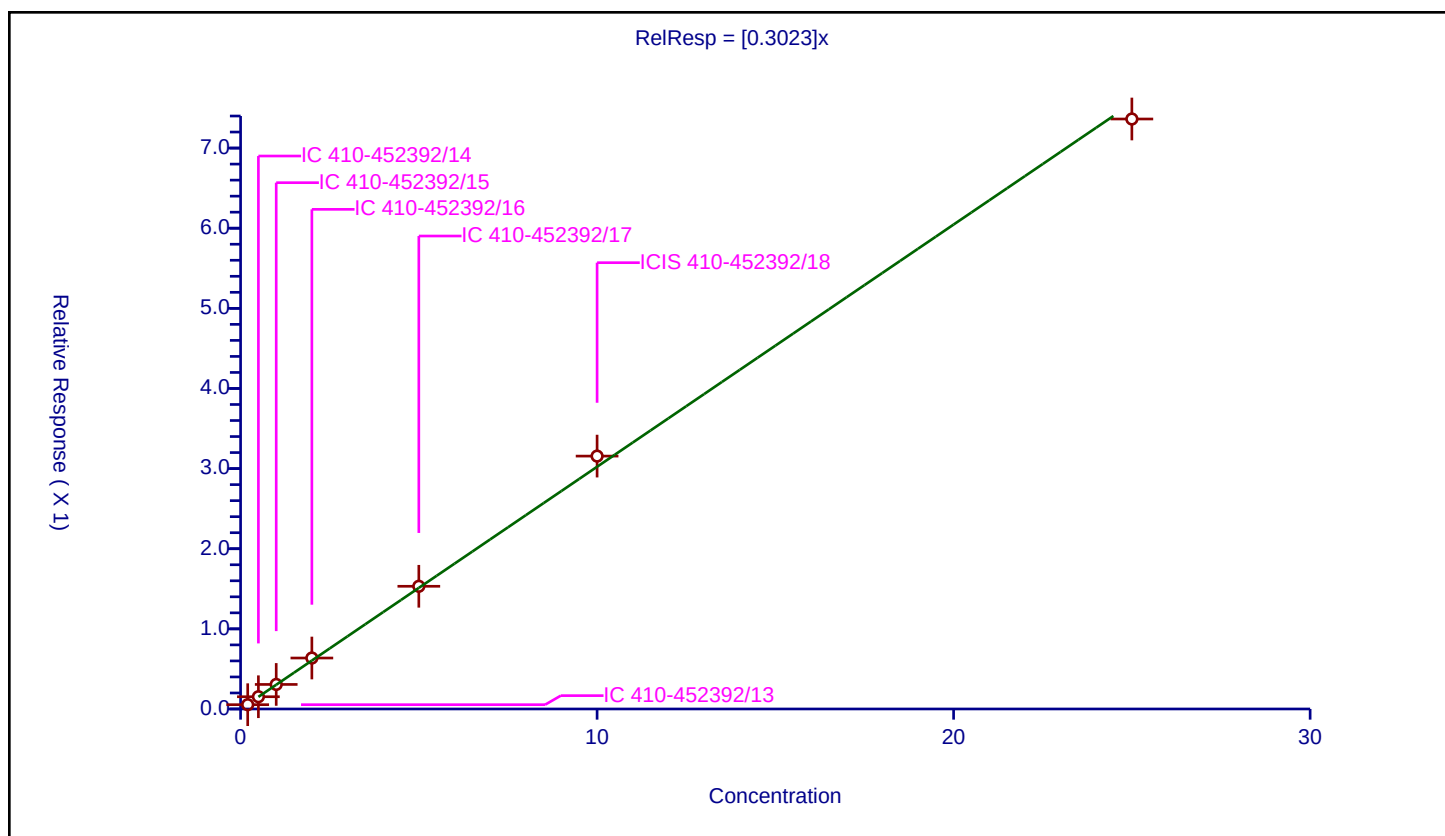
Curve Coefficients

Intercept: 0
Slope: 0.3023

Error Coefficients

Standard Error: 706000
Relative Standard Error: 5.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.053883	10.0	2047394.0	0.269416	Y
2	IC 410-452392/14	0.5	0.15295	10.0	2025434.0	0.3059	Y
3	IC 410-452392/15	1.0	0.306202	10.0	2044405.0	0.306202	Y
4	IC 410-452392/16	2.0	0.636018	10.0	2031703.0	0.318009	Y
5	IC 410-452392/17	5.0	1.531366	10.0	2042373.0	0.306273	Y
6	ICIS 410-452392/18	10.0	3.155857	10.0	2054434.0	0.315586	Y
7	IC 410-452392/19	25.0	7.36259	10.0	2125786.0	0.294504	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

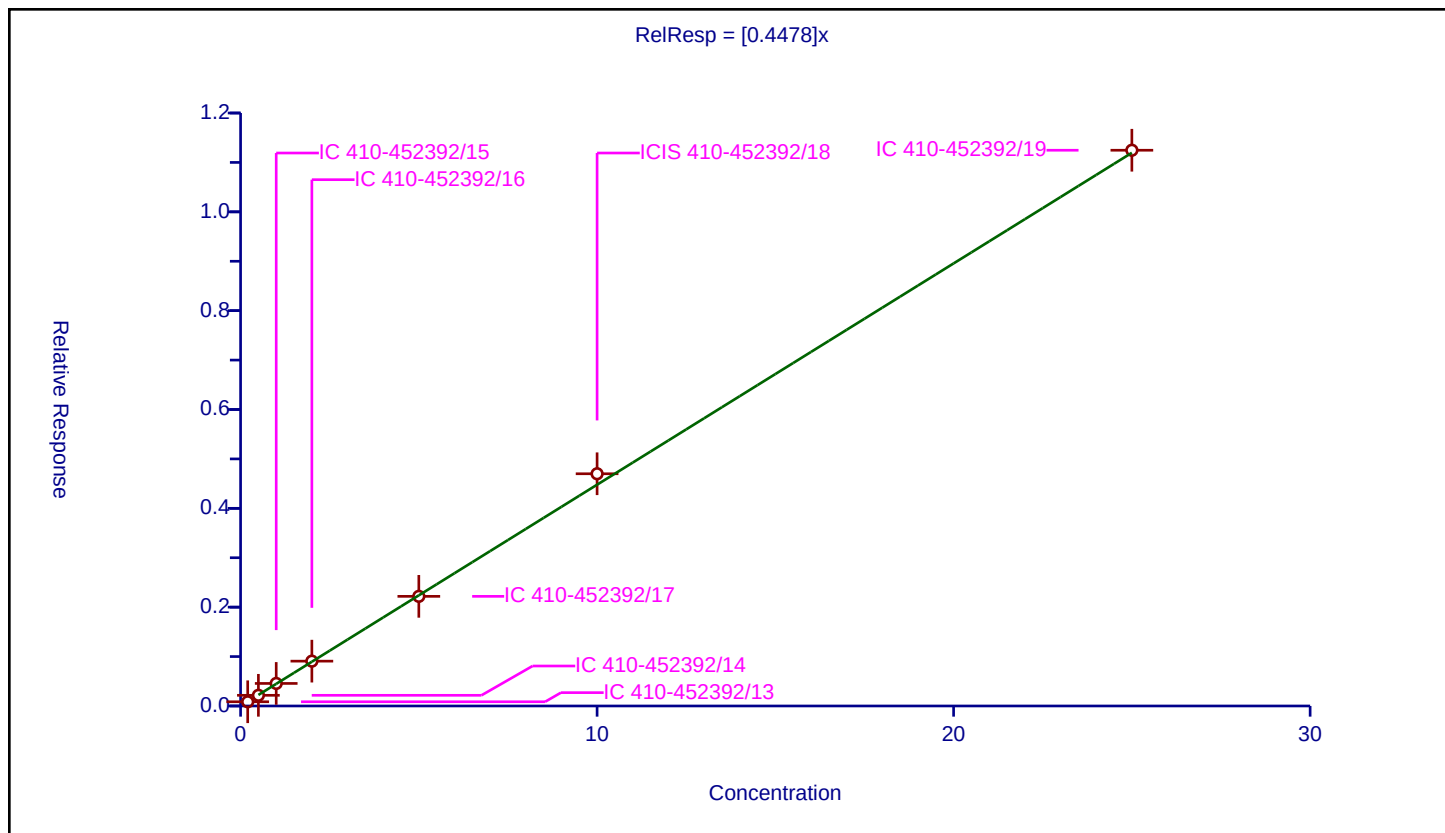
Curve Coefficients

Intercept: 0
Slope: 0.4478

Error Coefficients

Standard Error: 1070000
Relative Standard Error: 3.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.085753	10.0	2047394.0	0.428765	Y
2	IC 410-452392/14	0.5	0.216151	10.0	2025434.0	0.432302	Y
3	IC 410-452392/15	1.0	0.45627	10.0	2044405.0	0.45627	Y
4	IC 410-452392/16	2.0	0.907357	10.0	2031703.0	0.453679	Y
5	IC 410-452392/17	5.0	2.218987	10.0	2042373.0	0.443797	Y
6	ICIS 410-452392/18	10.0	4.699562	10.0	2054434.0	0.469956	Y
7	IC 410-452392/19	25.0	11.246744	10.0	2125786.0	0.44987	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

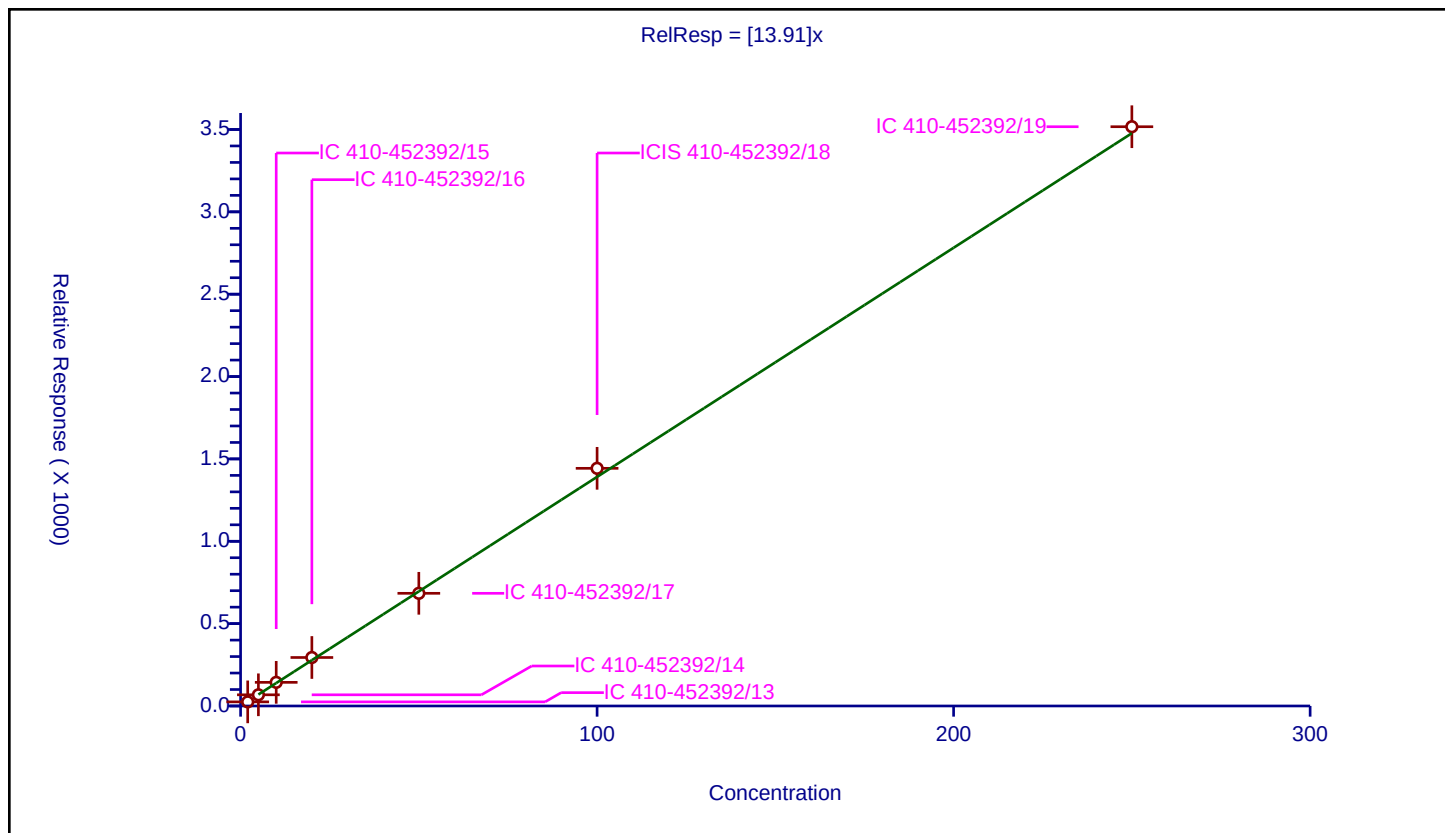
Curve Coefficients

Intercept: 0
 Slope: 13.91

Error Coefficients

Standard Error: 4560000
 Relative Standard Error: 5.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	2.0	25.078361	50.0	144204.0	12.539181	Y
2	IC 410-452392/14	5.0	67.862976	50.0	141435.0	13.572595	Y
3	IC 410-452392/15	10.0	143.578641	50.0	137066.0	14.357864	Y
4	IC 410-452392/16	20.0	294.349924	50.0	135361.0	14.717496	Y
5	IC 410-452392/17	50.0	684.059641	50.0	137958.0	13.681193	Y
6	ICIS 410-452392/18	100.0	1442.857448	50.0	140657.0	14.428574	Y
7	IC 410-452392/19	250.0	3516.717716	50.0	144957.0	14.066871	Y



Calibration

/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

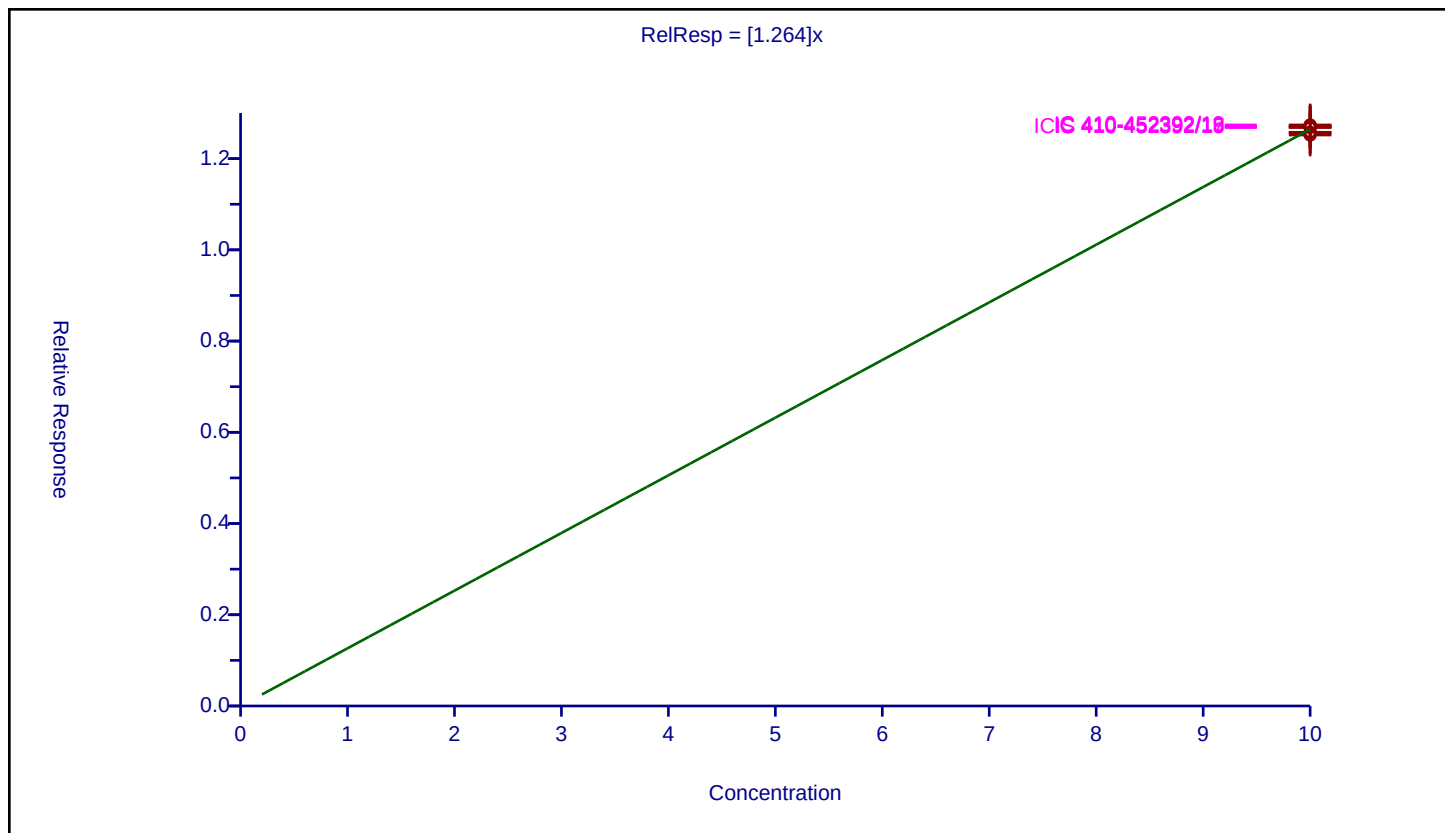
Curve Coefficients

Intercept: 0
 Slope: 1.264

Error Coefficients

Standard Error: 2180000
 Relative Standard Error: 0.7
 Correlation Coefficient: 0.00000000000000000000
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	10.0	12.577125	10.0	1589112.0	1.257712	Y
2	IC 410-452392/14	10.0	12.566464	10.0	1583369.0	1.256646	Y
3	IC 410-452392/15	10.0	12.517458	10.0	1590219.0	1.251746	Y
4	IC 410-452392/16	10.0	12.71099	10.0	1583289.0	1.271099	Y
5	IC 410-452392/17	10.0	12.682048	10.0	1587835.0	1.268205	Y
6	ICIS 410-452392/18	10.0	12.693875	10.0	1597591.0	1.269387	Y
7	IC 410-452392/19	10.0	12.738332	10.0	1630500.0	1.273833	Y



Calibration

/ Toluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

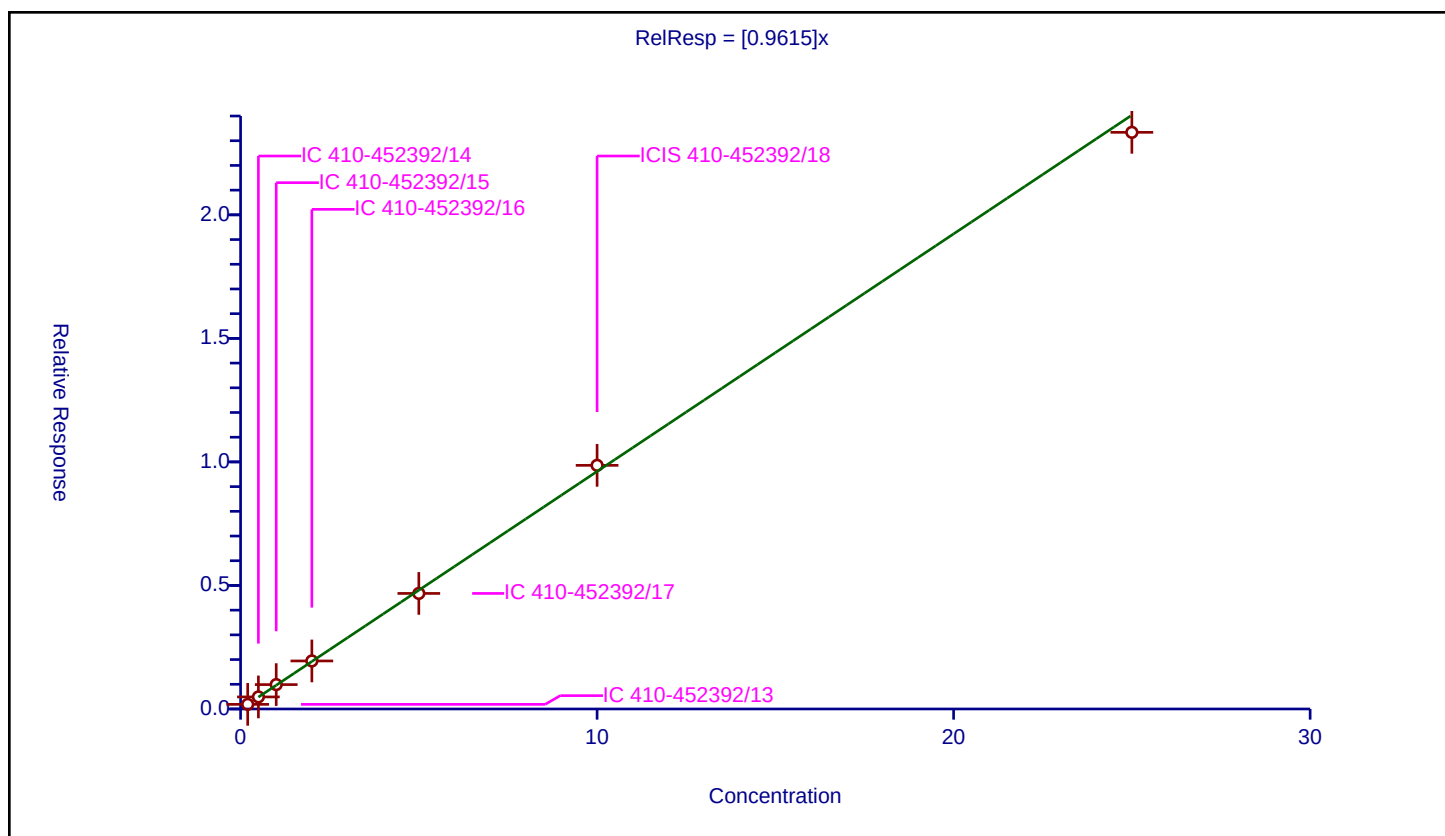
Curve Coefficients

Intercept: 0
Slope: 0.9615

Error Coefficients

Standard Error: 1710000
Relative Standard Error: 2.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.187721	10.0	1589112.0	0.938606	Y
2	IC 410-452392/14	0.5	0.488402	10.0	1583369.0	0.976803	Y
3	IC 410-452392/15	1.0	0.987411	10.0	1590219.0	0.987411	Y
4	IC 410-452392/16	2.0	1.944383	10.0	1583289.0	0.972191	Y
5	IC 410-452392/17	5.0	4.6773	10.0	1587835.0	0.93546	Y
6	ICIS 410-452392/18	10.0	9.861235	10.0	1597591.0	0.986123	Y
7	IC 410-452392/19	25.0	23.339092	10.0	1630500.0	0.933564	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

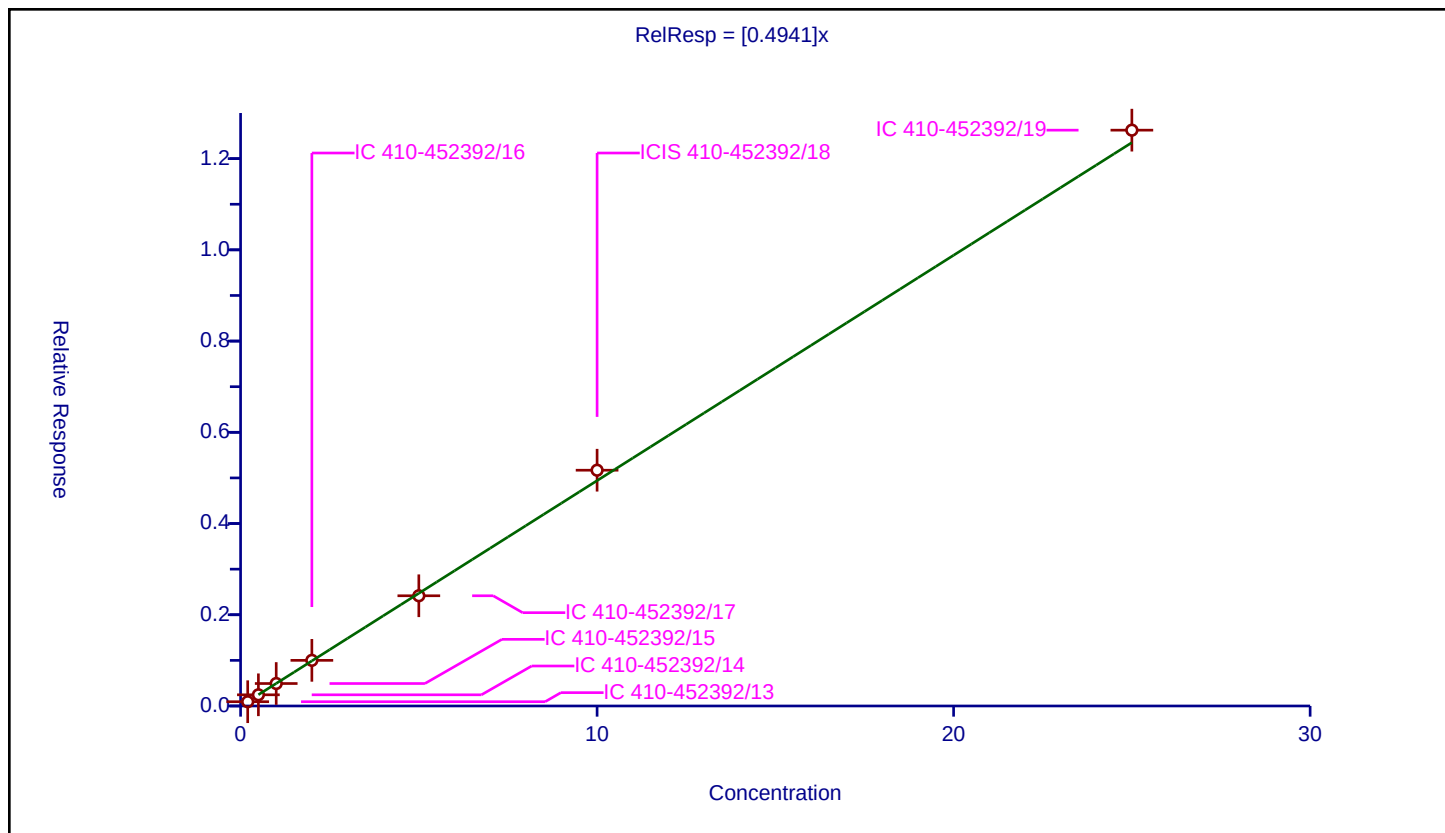
Curve Coefficients

Intercept: 0
Slope: 0.4941

Error Coefficients

Standard Error: 922000
Relative Standard Error: 3.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.09392	10.0	1589112.0	0.469602	Y
2	IC 410-452392/14	0.5	0.245413	10.0	1583369.0	0.490827	Y
3	IC 410-452392/15	1.0	0.492731	10.0	1590219.0	0.492731	Y
4	IC 410-452392/16	2.0	1.000348	10.0	1583289.0	0.500174	Y
5	IC 410-452392/17	5.0	2.416448	10.0	1587835.0	0.48329	Y
6	ICIS 410-452392/18	10.0	5.169152	10.0	1597591.0	0.516915	Y
7	IC 410-452392/19	25.0	12.623882	10.0	1630500.0	0.504955	Y



Calibration

/ Ethyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

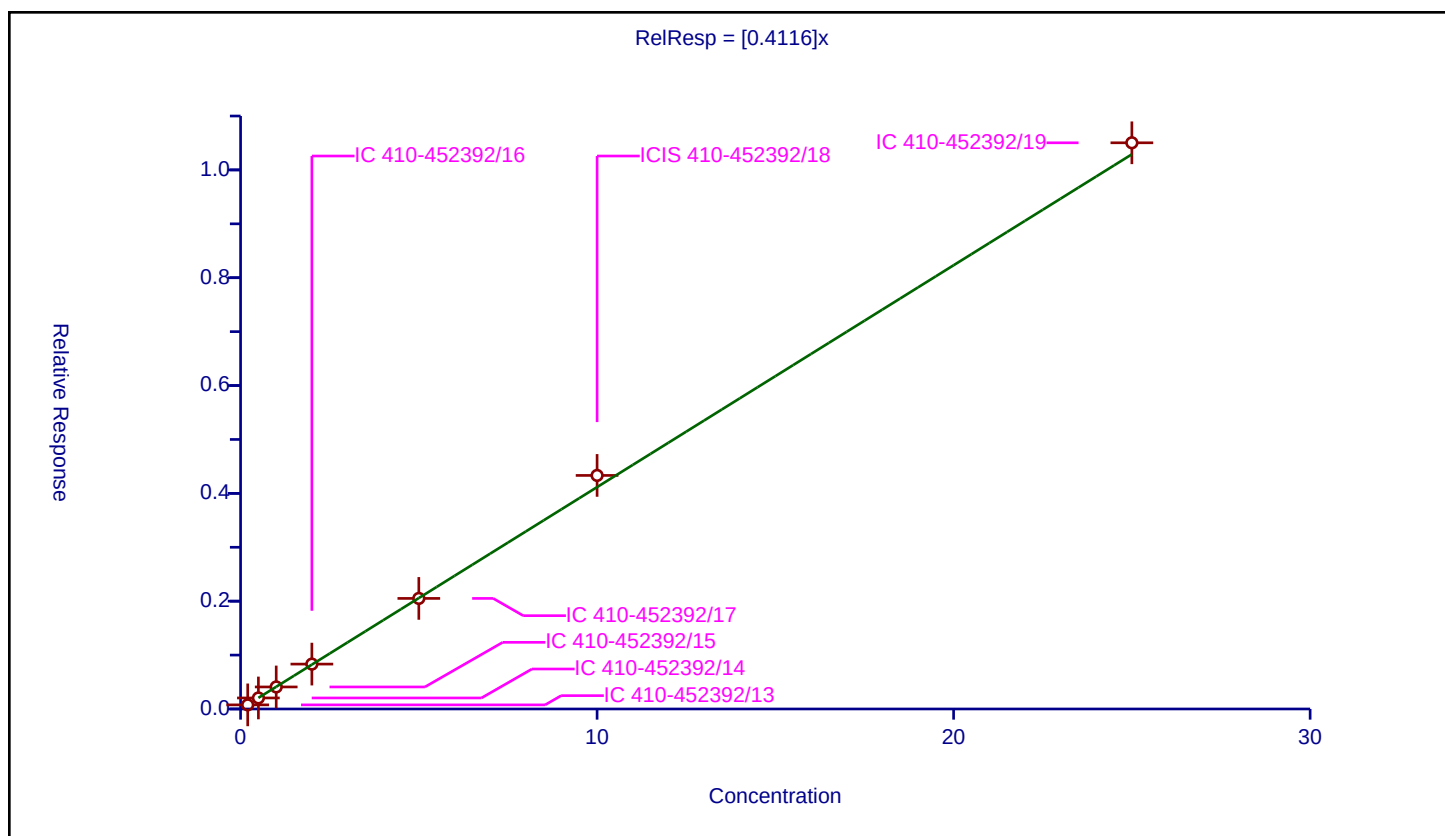
Curve Coefficients

Intercept: 0
Slope: 0.4116

Error Coefficients

Standard Error: 768000
Relative Standard Error: 3.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.076565	10.0	1589112.0	0.382824	Y
2	IC 410-452392/14	0.5	0.204614	10.0	1583369.0	0.409229	Y
3	IC 410-452392/15	1.0	0.409019	10.0	1590219.0	0.409019	Y
4	IC 410-452392/16	2.0	0.832924	10.0	1583289.0	0.416462	Y
5	IC 410-452392/17	5.0	2.051019	10.0	1587835.0	0.410204	Y
6	ICIS 410-452392/18	10.0	4.332686	10.0	1597591.0	0.433269	Y
7	IC 410-452392/19	25.0	10.503355	10.0	1630500.0	0.420134	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

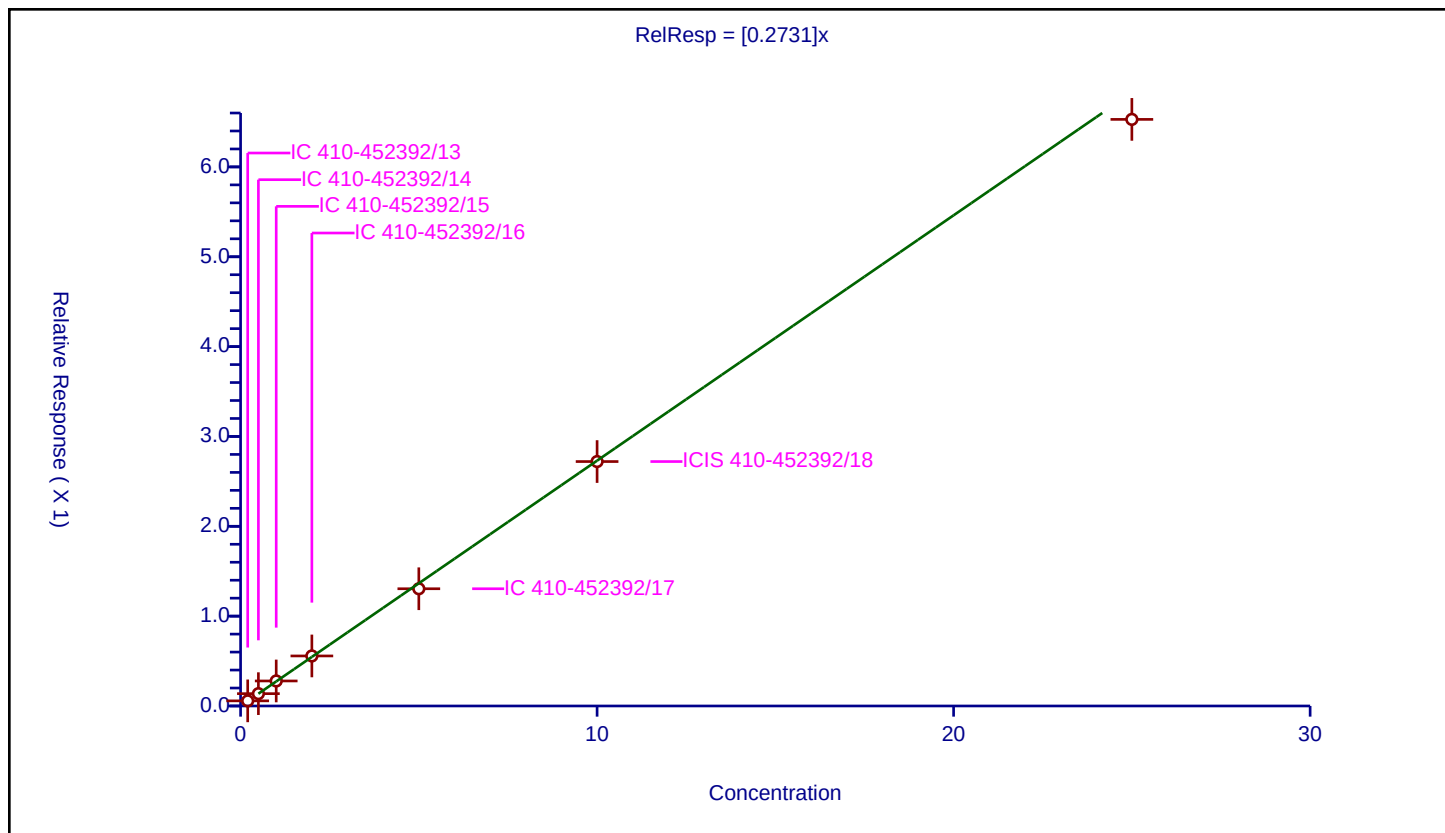
Curve Coefficients

Intercept: 0
Slope: 0.2731

Error Coefficients

Standard Error: 479000
Relative Standard Error: 3.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.057151	10.0	1589112.0	0.285757	Y
2	IC 410-452392/14	0.5	0.137157	10.0	1583369.0	0.274314	Y
3	IC 410-452392/15	1.0	0.278635	10.0	1590219.0	0.278635	Y
4	IC 410-452392/16	2.0	0.557068	10.0	1583289.0	0.278534	Y
5	IC 410-452392/17	5.0	1.305066	10.0	1587835.0	0.261013	Y
6	ICIS 410-452392/18	10.0	2.720803	10.0	1597591.0	0.27208	Y
7	IC 410-452392/19	25.0	6.528924	10.0	1630500.0	0.261157	Y



Calibration

/ Tetrachloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

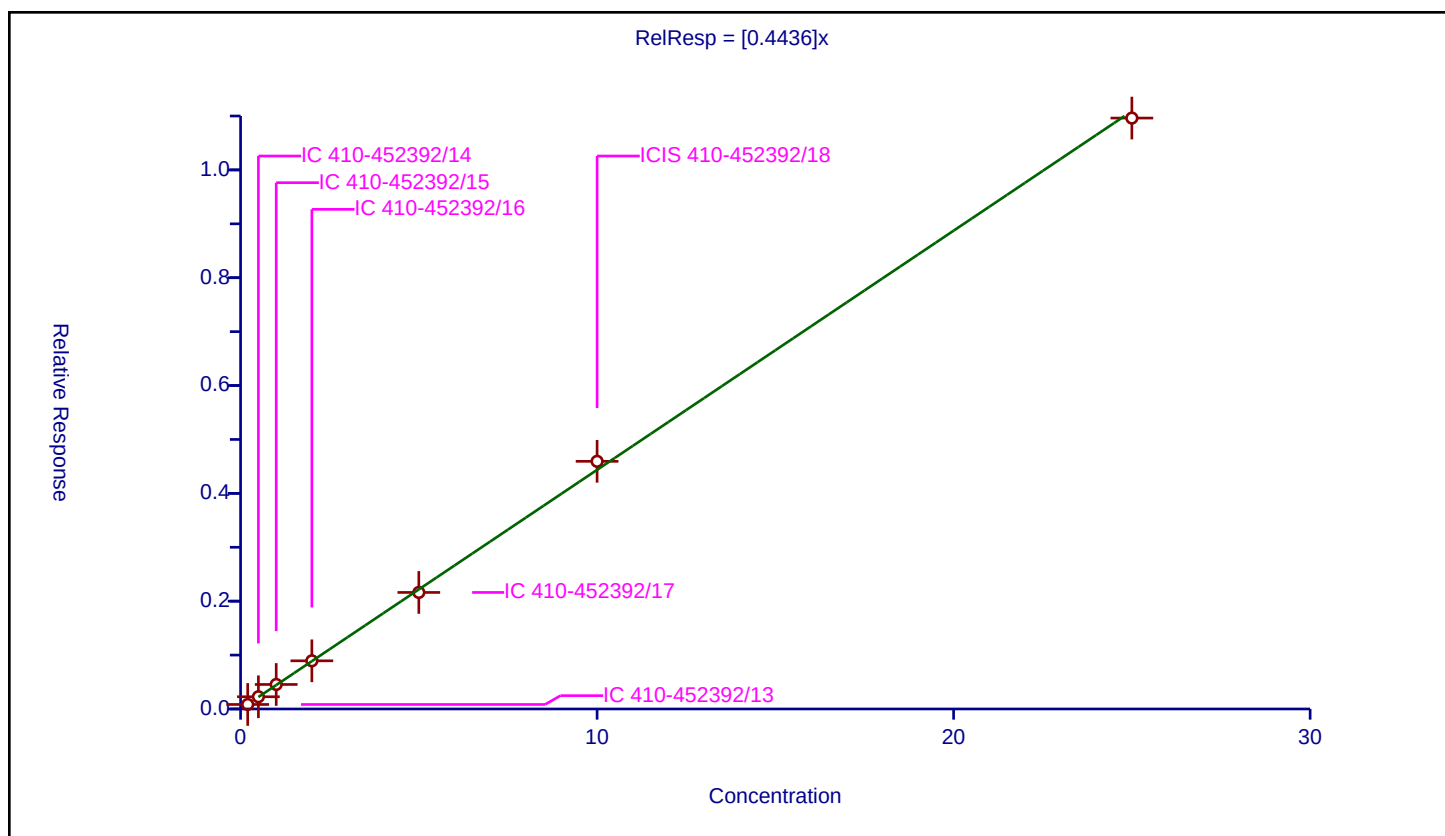
Curve Coefficients

Intercept: 0
Slope: 0.4436

Error Coefficients

Standard Error: 804000
Relative Standard Error: 3.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.083946	10.0	1589112.0	0.419731	Y
2	IC 410-452392/14	0.5	0.226763	10.0	1583369.0	0.453527	Y
3	IC 410-452392/15	1.0	0.455088	10.0	1590219.0	0.455088	Y
4	IC 410-452392/16	2.0	0.893614	10.0	1583289.0	0.446807	Y
5	IC 410-452392/17	5.0	2.161849	10.0	1587835.0	0.43237	Y
6	ICIS 410-452392/18	10.0	4.594311	10.0	1597591.0	0.459431	Y
7	IC 410-452392/19	25.0	10.961993	10.0	1630500.0	0.43848	Y



Calibration

/ 1,3-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

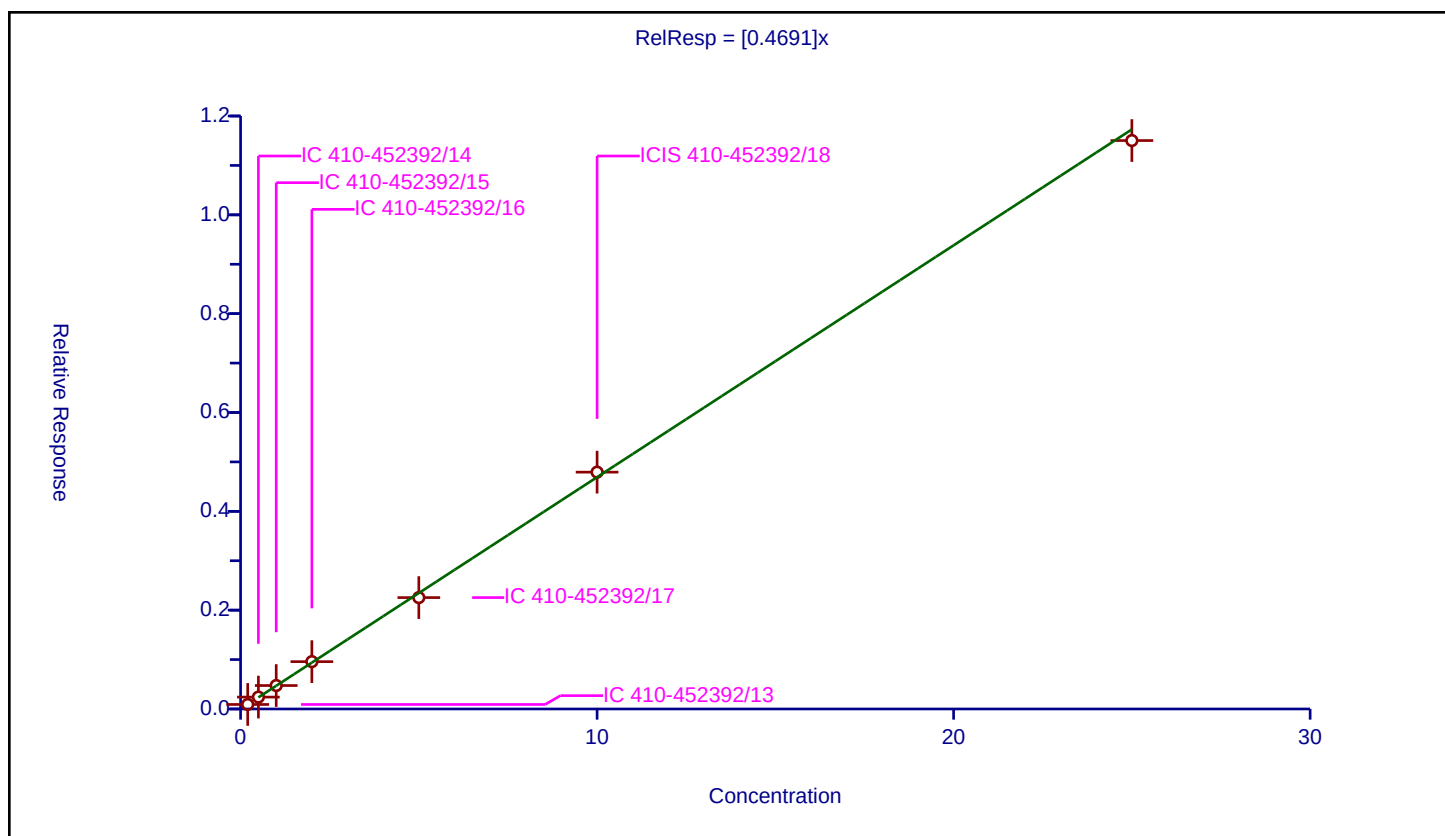
Curve Coefficients

Intercept: 0
Slope: 0.4691

Error Coefficients

Standard Error: 843000
Relative Standard Error: 2.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.091623	10.0	1589112.0	0.458117	Y
2	IC 410-452392/14	0.5	0.240942	10.0	1583369.0	0.481884	Y
3	IC 410-452392/15	1.0	0.474714	10.0	1590219.0	0.474714	Y
4	IC 410-452392/16	2.0	0.958075	10.0	1583289.0	0.479038	Y
5	IC 410-452392/17	5.0	2.254309	10.0	1587835.0	0.450862	Y
6	ICIS 410-452392/18	10.0	4.79266	10.0	1597591.0	0.479266	Y
7	IC 410-452392/19	25.0	11.503661	10.0	1630500.0	0.460146	Y



Calibration

/ 2-Hexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

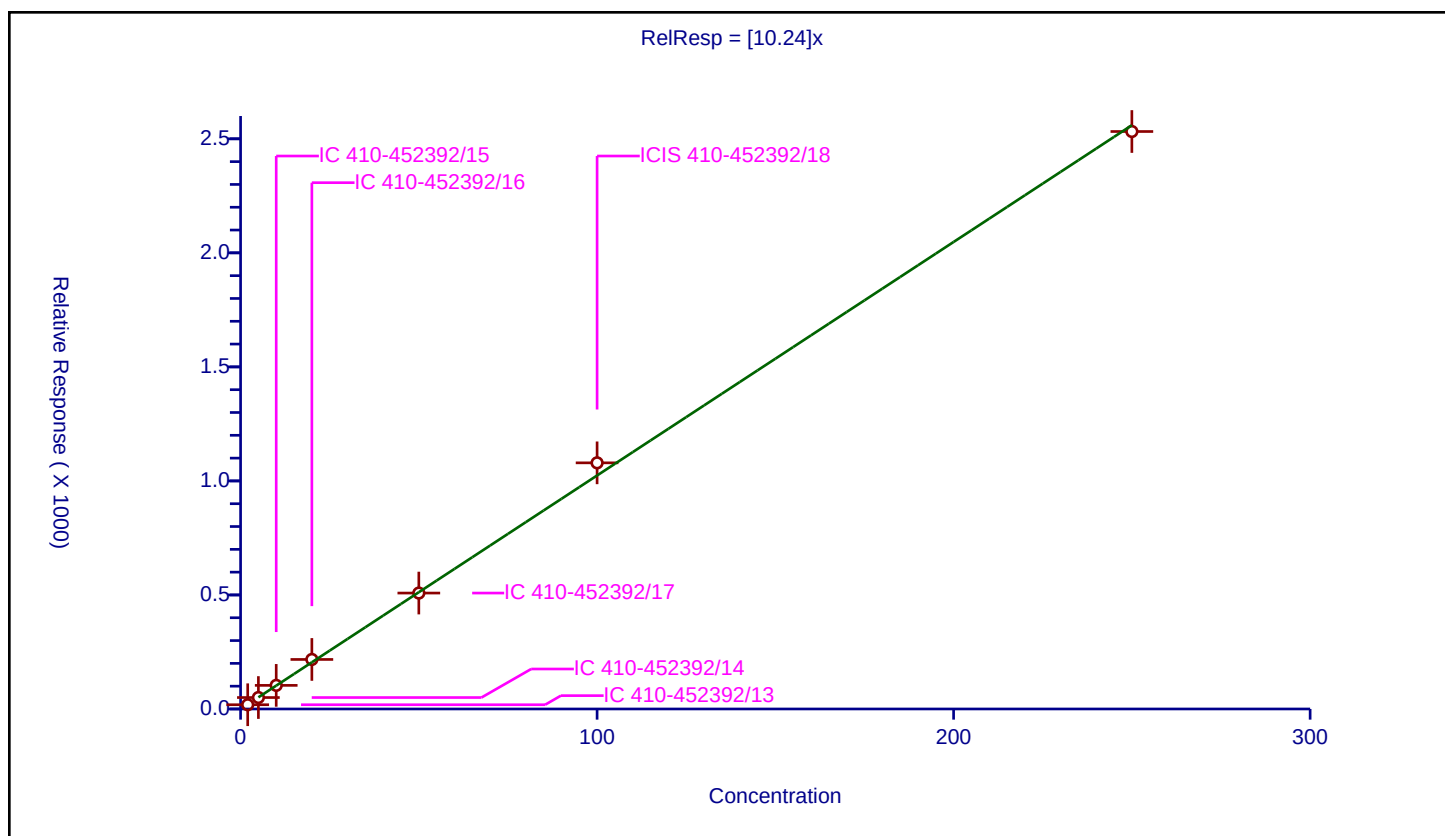
Curve Coefficients

Intercept: 0
Slope: 10.24

Error Coefficients

Standard Error: 3300000
Relative Standard Error: 5.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	2.0	18.629511	50.0	144204.0	9.314755	Y
2	IC 410-452392/14	5.0	50.255241	50.0	141435.0	10.051048	Y
3	IC 410-452392/15	10.0	103.573826	50.0	137066.0	10.357383	Y
4	IC 410-452392/16	20.0	217.203256	50.0	135361.0	10.860163	Y
5	IC 410-452392/17	50.0	508.279694	50.0	137958.0	10.165594	Y
6	ICIS 410-452392/18	100.0	1079.279737	50.0	140657.0	10.792797	Y
7	IC 410-452392/19	250.0	2532.09745	50.0	144957.0	10.12839	Y



Calibration

/ Chlorodibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

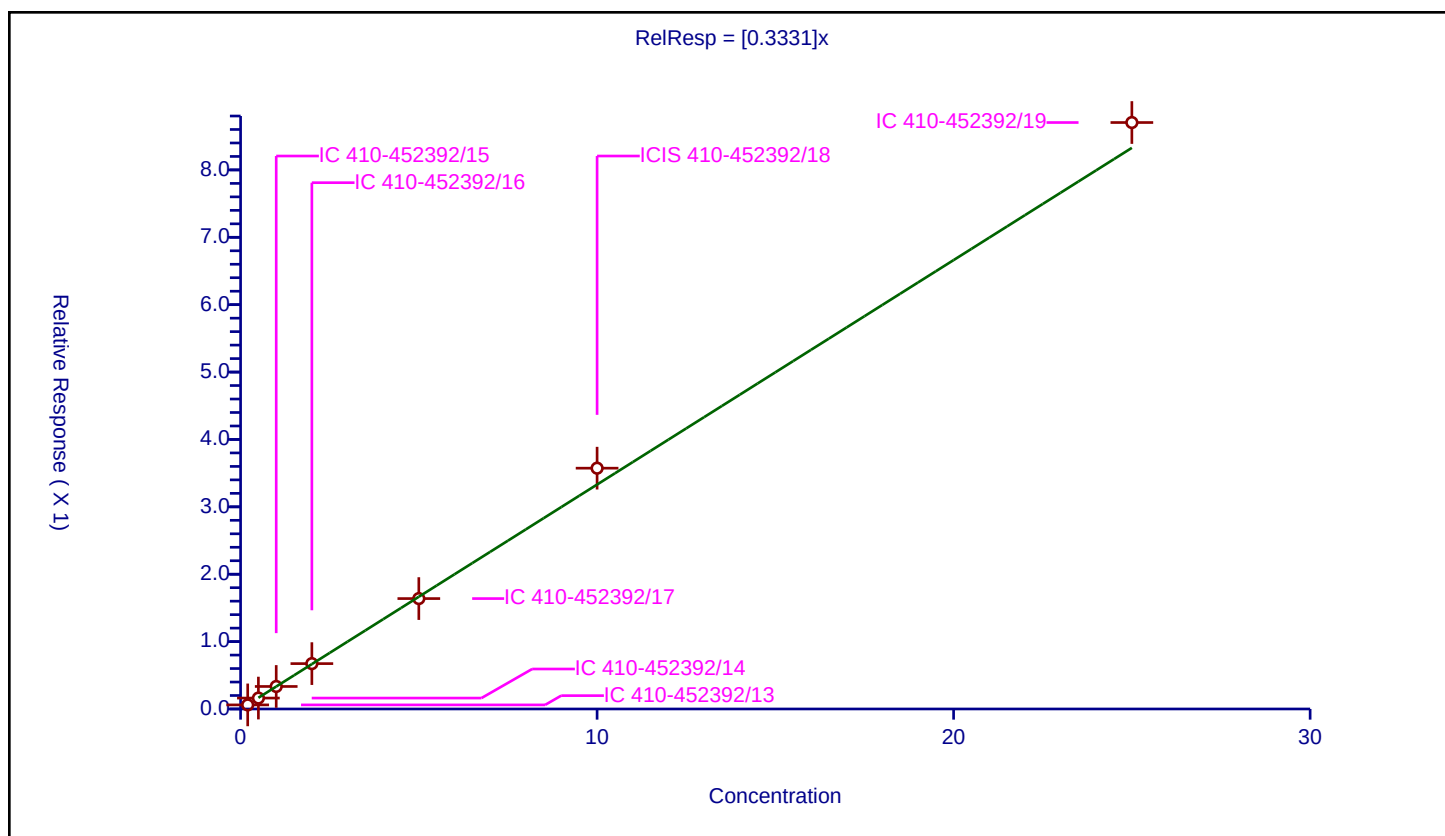
Curve Coefficients

Intercept: 0
Slope: 0.3331

Error Coefficients

Standard Error: 635000
Relative Standard Error: 5.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.060782	10.0	1589112.0	0.303912	Y
2	IC 410-452392/14	0.5	0.161864	10.0	1583369.0	0.323727	Y
3	IC 410-452392/15	1.0	0.33425	10.0	1590219.0	0.33425	Y
4	IC 410-452392/16	2.0	0.6732	10.0	1583289.0	0.3366	Y
5	IC 410-452392/17	5.0	1.638483	10.0	1587835.0	0.327697	Y
6	ICIS 410-452392/18	10.0	3.573631	10.0	1597591.0	0.357363	Y
7	IC 410-452392/19	25.0	8.703244	10.0	1630500.0	0.34813	Y



Calibration

/ Ethylene Dibromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

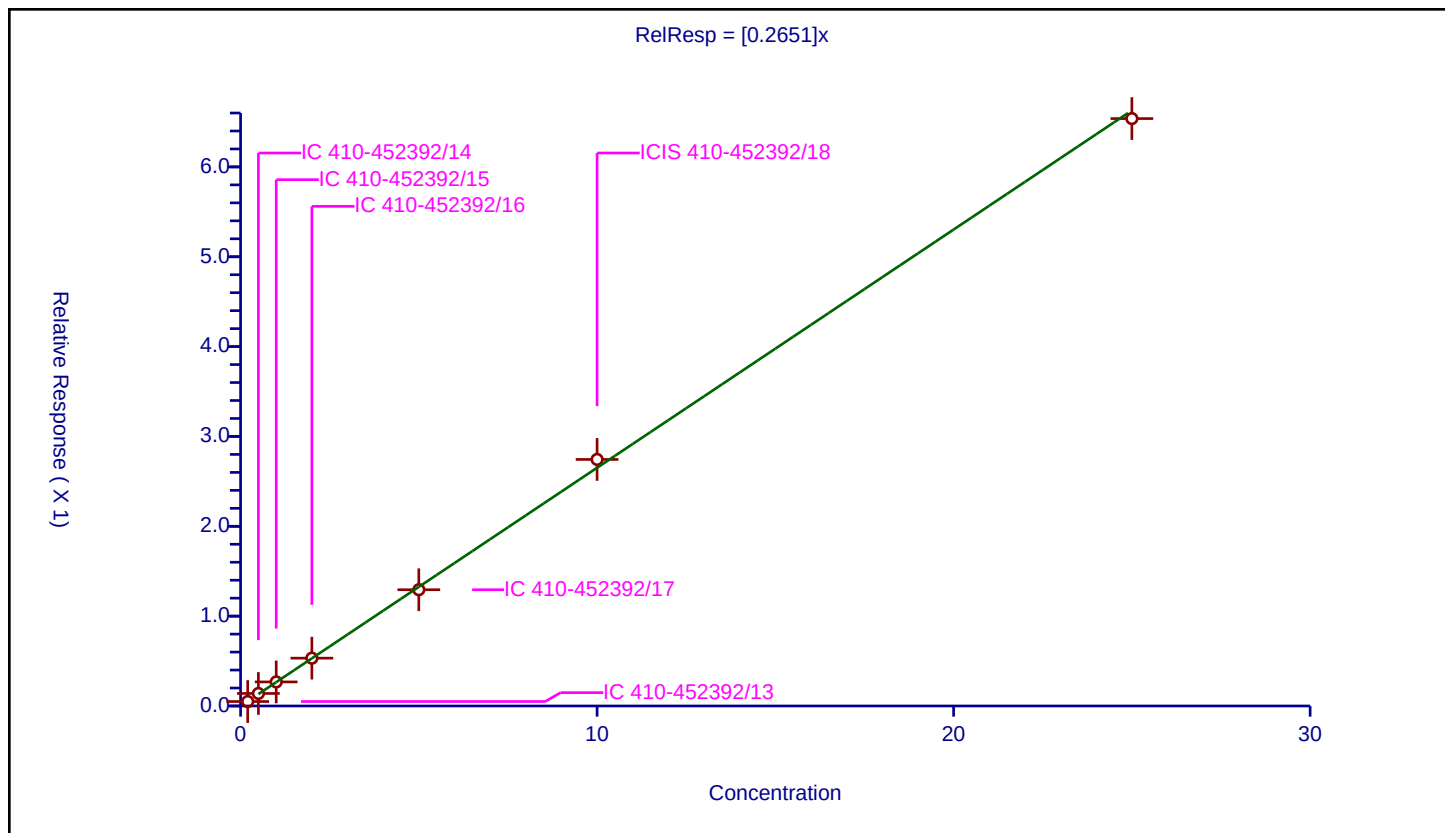
Curve Coefficients

Intercept: 0
Slope: 0.2651

Error Coefficients

Standard Error: 480000
Relative Standard Error: 3.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.049663	10.0	1589112.0	0.248315	Y
2	IC 410-452392/14	0.5	0.139418	10.0	1583369.0	0.278836	Y
3	IC 410-452392/15	1.0	0.267894	10.0	1590219.0	0.267894	Y
4	IC 410-452392/16	2.0	0.532423	10.0	1583289.0	0.266212	Y
5	IC 410-452392/17	5.0	1.29402	10.0	1587835.0	0.258804	Y
6	ICIS 410-452392/18	10.0	2.744163	10.0	1597591.0	0.274416	Y
7	IC 410-452392/19	25.0	6.53789	10.0	1630500.0	0.261516	Y



Calibration

/ 1-Chlorohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

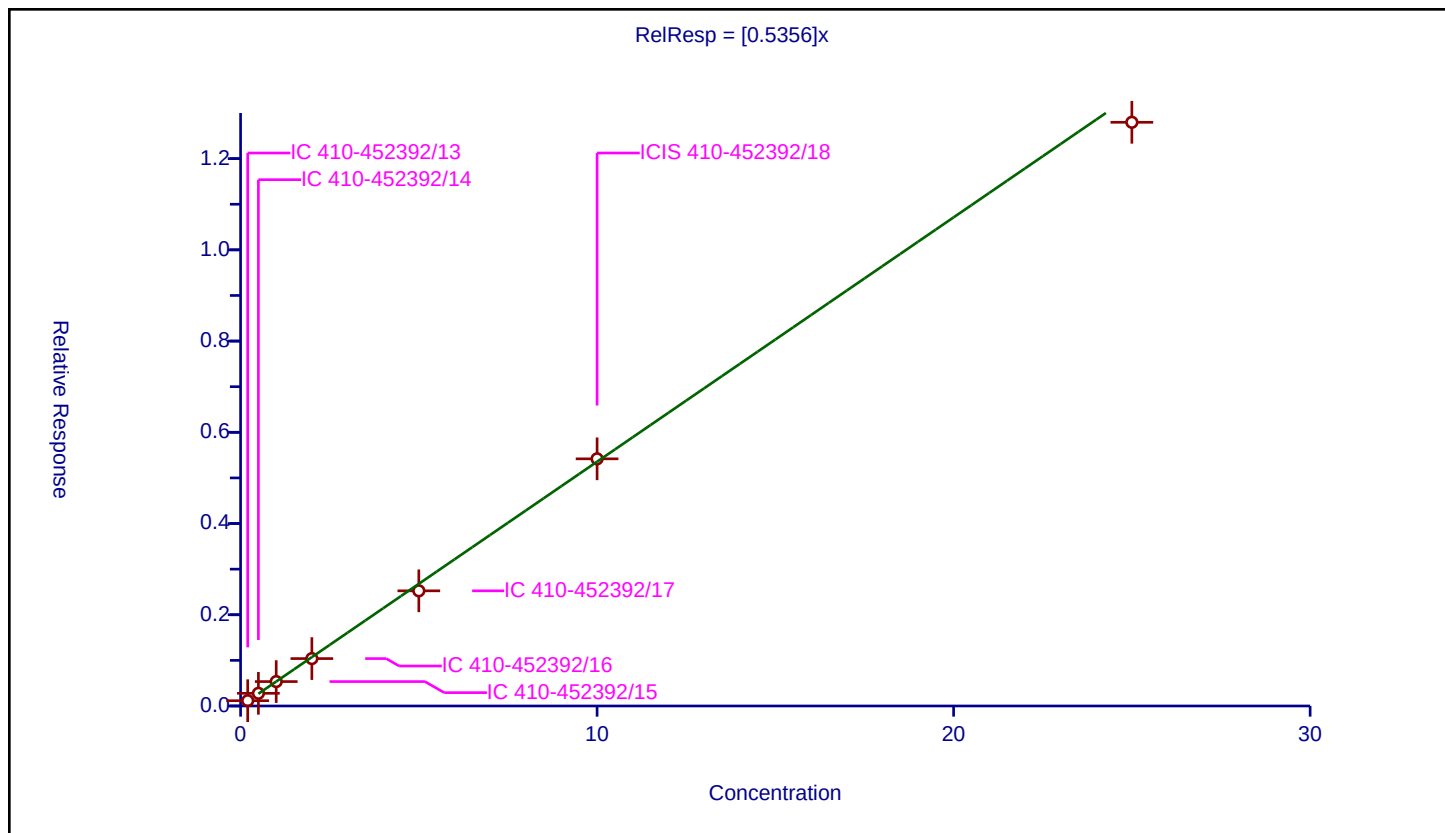
Curve Coefficients

Intercept: 0
 Slope: 0.5356

Error Coefficients

Standard Error: 940000
 Relative Standard Error: 4.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.115926	10.0	1589112.0	0.579632	Y
2	IC 410-452392/14	0.5	0.278185	10.0	1583369.0	0.556371	Y
3	IC 410-452392/15	1.0	0.535128	10.0	1590219.0	0.535128	Y
4	IC 410-452392/16	2.0	1.039071	10.0	1583289.0	0.519536	Y
5	IC 410-452392/17	5.0	2.524822	10.0	1587835.0	0.504964	Y
6	ICIS 410-452392/18	10.0	5.418802	10.0	1597591.0	0.54188	Y
7	IC 410-452392/19	25.0	12.796621	10.0	1630500.0	0.511865	Y



Calibration

/ Chlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

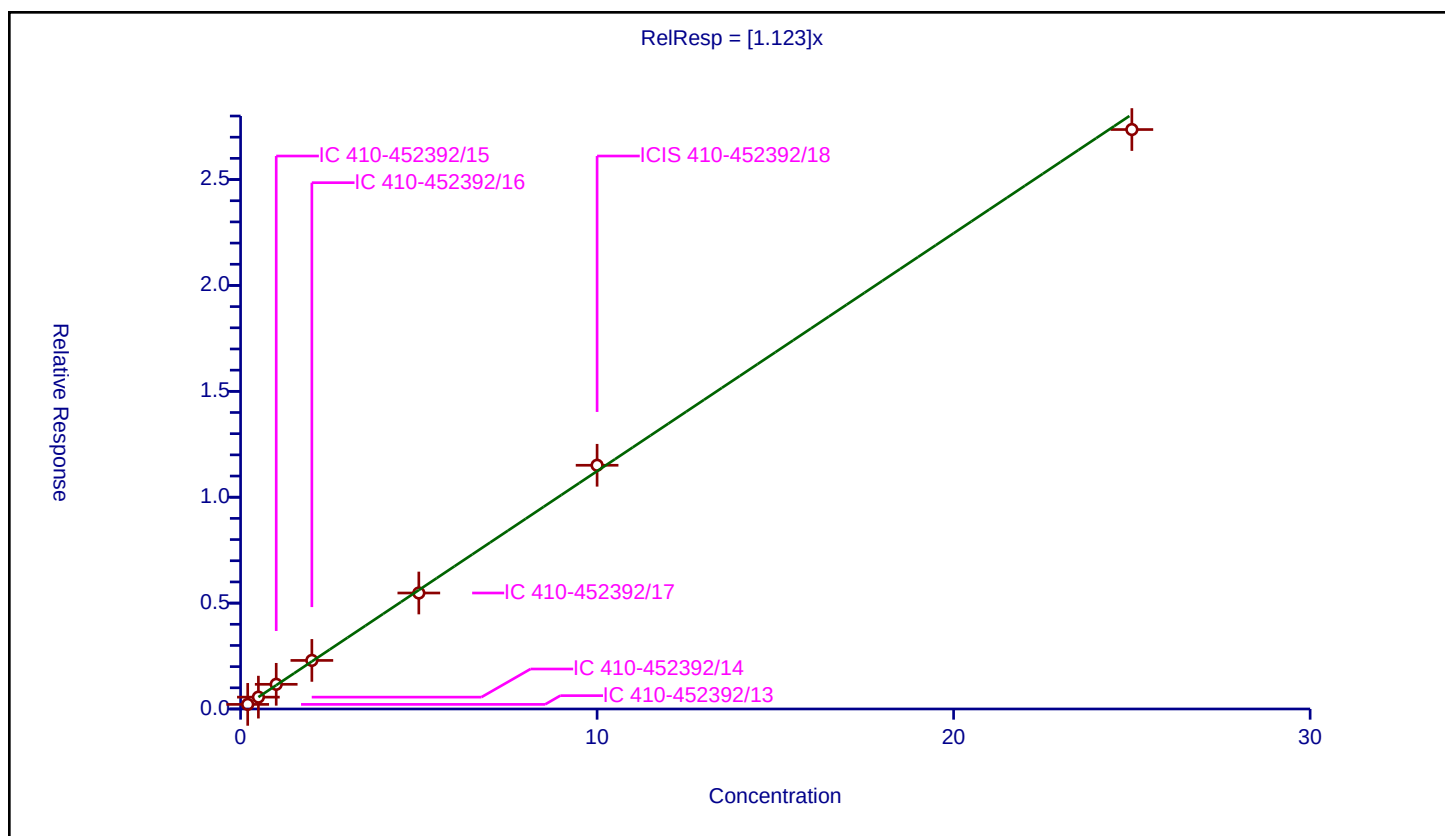
Curve Coefficients

Intercept: 0
Slope: 1.123

Error Coefficients

Standard Error: 2010000
Relative Standard Error: 2.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.217832	10.0	1589112.0	1.089162	Y
2	IC 410-452392/14	0.5	0.560053	10.0	1583369.0	1.120105	Y
3	IC 410-452392/15	1.0	1.164959	10.0	1590219.0	1.164959	Y
4	IC 410-452392/16	2.0	2.293871	10.0	1583289.0	1.146935	Y
5	IC 410-452392/17	5.0	5.476488	10.0	1587835.0	1.095298	Y
6	ICIS 410-452392/18	10.0	11.508496	10.0	1597591.0	1.15085	Y
7	IC 410-452392/19	25.0	27.36103	10.0	1630500.0	1.094441	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

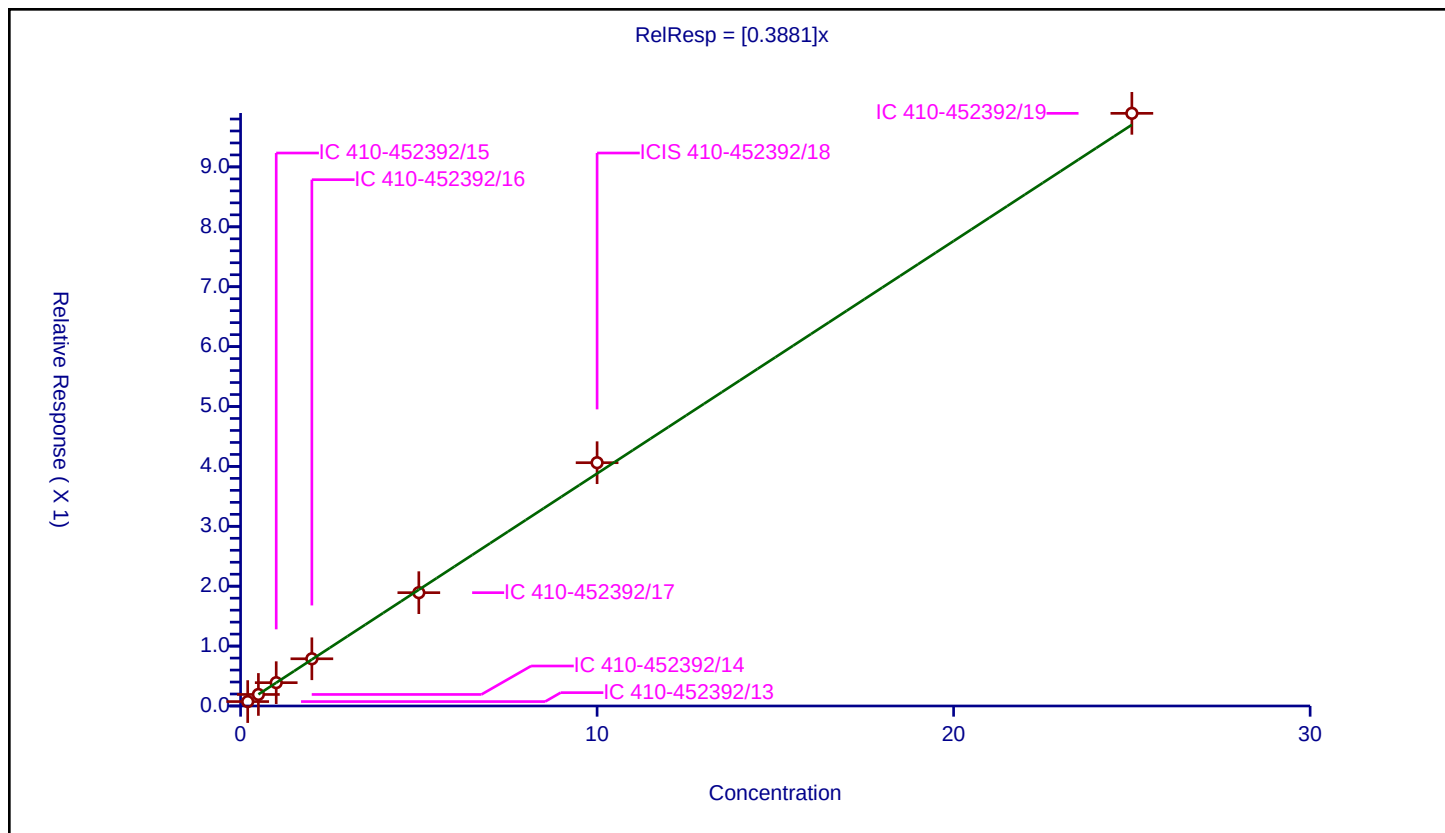
Curve Coefficients

Intercept: 0
Slope: 0.3881

Error Coefficients

Standard Error: 723000
Relative Standard Error: 3.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.07367	10.0	1589112.0	0.36835	Y
2	IC 410-452392/14	0.5	0.192539	10.0	1583369.0	0.385078	Y
3	IC 410-452392/15	1.0	0.389141	10.0	1590219.0	0.389141	Y
4	IC 410-452392/16	2.0	0.788037	10.0	1583289.0	0.394018	Y
5	IC 410-452392/17	5.0	1.891954	10.0	1587835.0	0.378391	Y
6	ICIS 410-452392/18	10.0	4.061897	10.0	1597591.0	0.40619	Y
7	IC 410-452392/19	25.0	9.894768	10.0	1630500.0	0.395791	Y



Calibration

/ Ethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

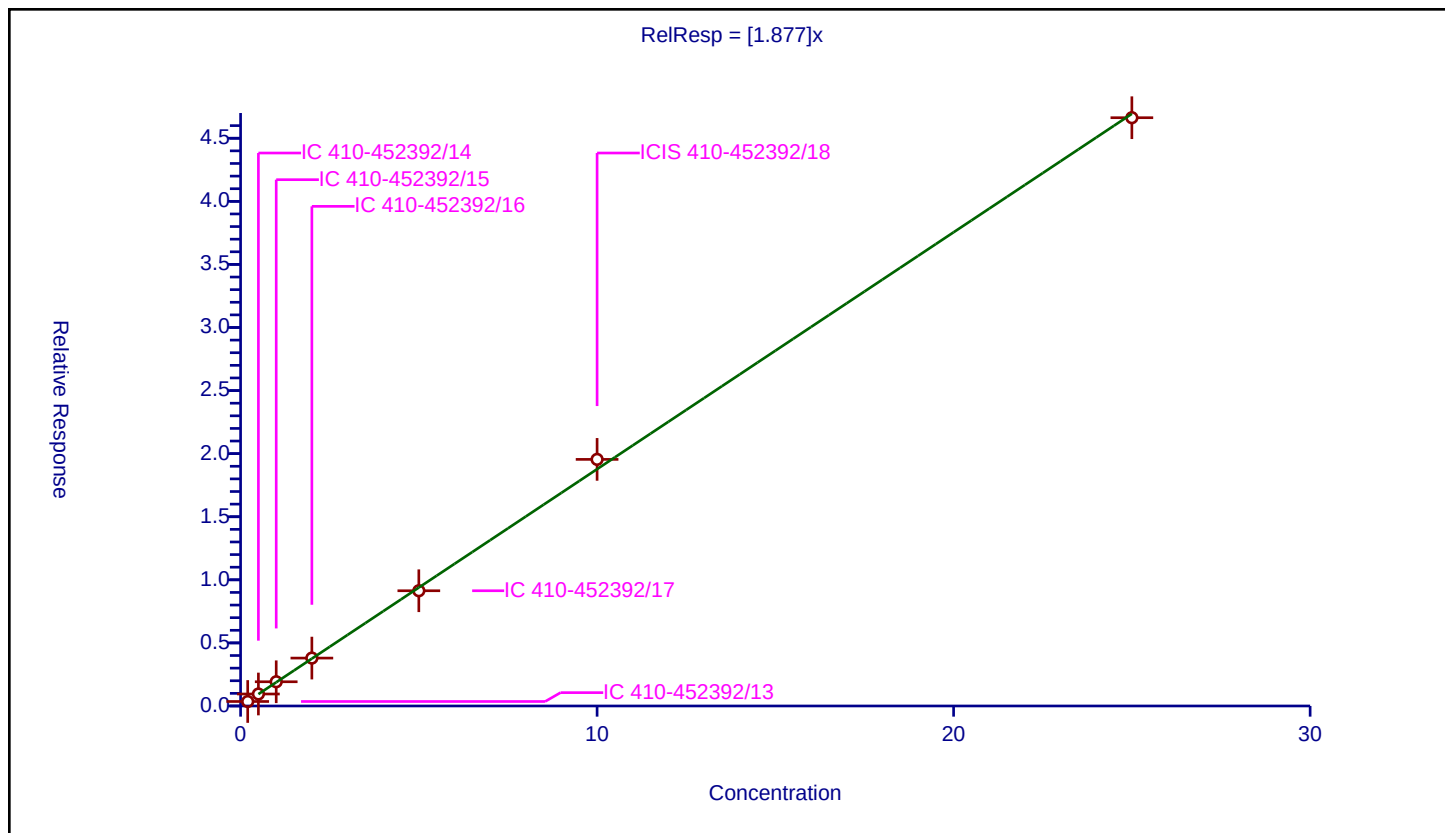
Curve Coefficients

Intercept: 0
 Slope: 1.877

Error Coefficients

Standard Error: 3420000
 Relative Standard Error: 3.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.355544	10.0	1589112.0	1.777722	Y
2	IC 410-452392/14	0.5	0.949564	10.0	1583369.0	1.899128	Y
3	IC 410-452392/15	1.0	1.919214	10.0	1590219.0	1.919214	Y
4	IC 410-452392/16	2.0	3.797917	10.0	1583289.0	1.898958	Y
5	IC 410-452392/17	5.0	9.133512	10.0	1587835.0	1.826702	Y
6	ICIS 410-452392/18	10.0	19.54673	10.0	1597591.0	1.954673	Y
7	IC 410-452392/19	25.0	46.627311	10.0	1630500.0	1.865092	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

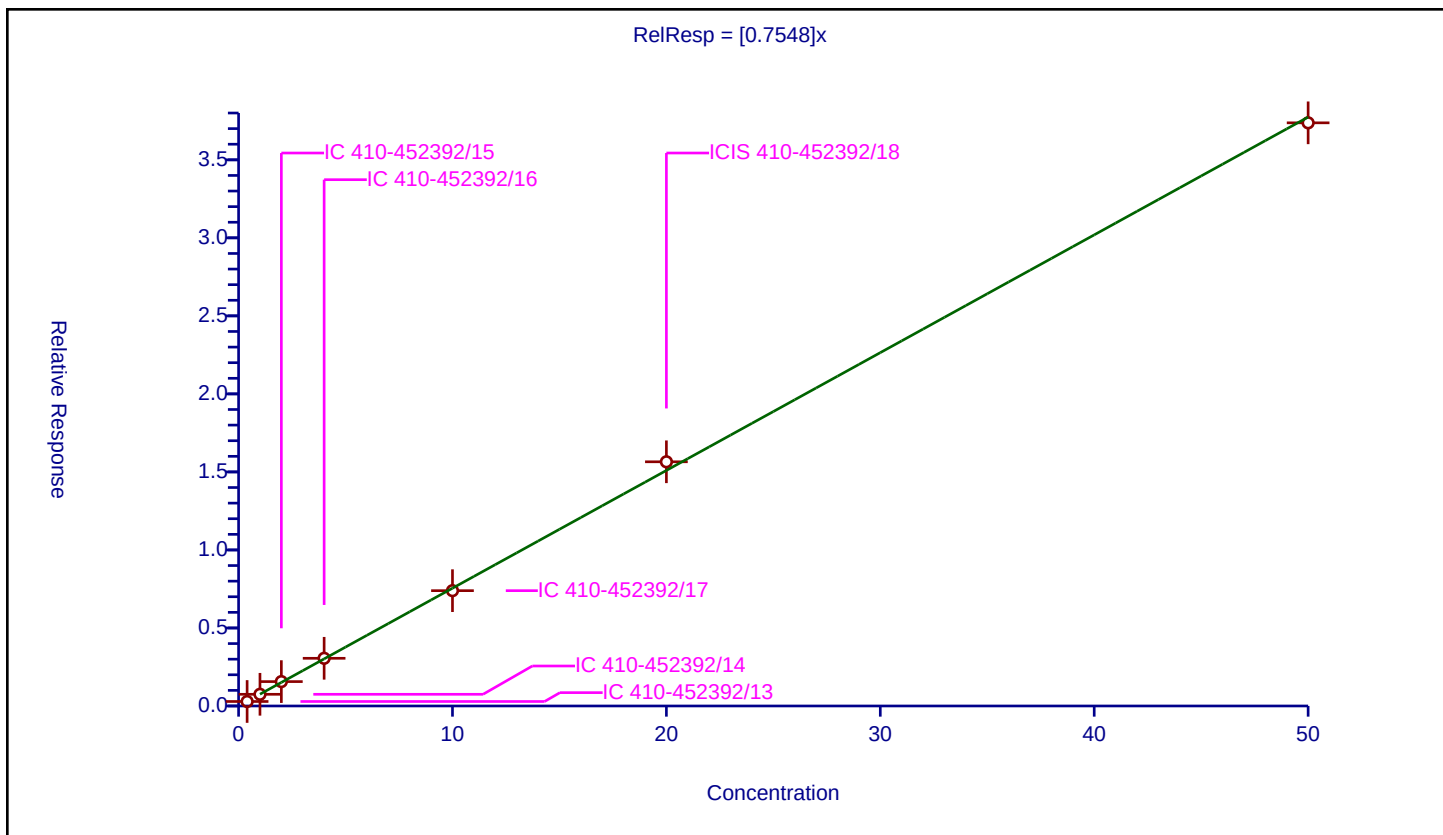
Curve Coefficients

Intercept: 0
 Slope: 0.7548

Error Coefficients

Standard Error: 2740000
 Relative Standard Error: 3.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.4	0.287456	10.0	1589112.0	0.71864	Y
2	IC 410-452392/14	1.0	0.750027	10.0	1583369.0	0.750027	Y
3	IC 410-452392/15	2.0	1.563615	10.0	1590219.0	0.781807	Y
4	IC 410-452392/16	4.0	3.056397	10.0	1583289.0	0.764099	Y
5	IC 410-452392/17	10.0	7.389515	10.0	1587835.0	0.738951	Y
6	ICIS 410-452392/18	20.0	15.648573	10.0	1597591.0	0.782429	Y
7	IC 410-452392/19	50.0	37.370457	10.0	1630500.0	0.747409	Y



Calibration

/ o-Xylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

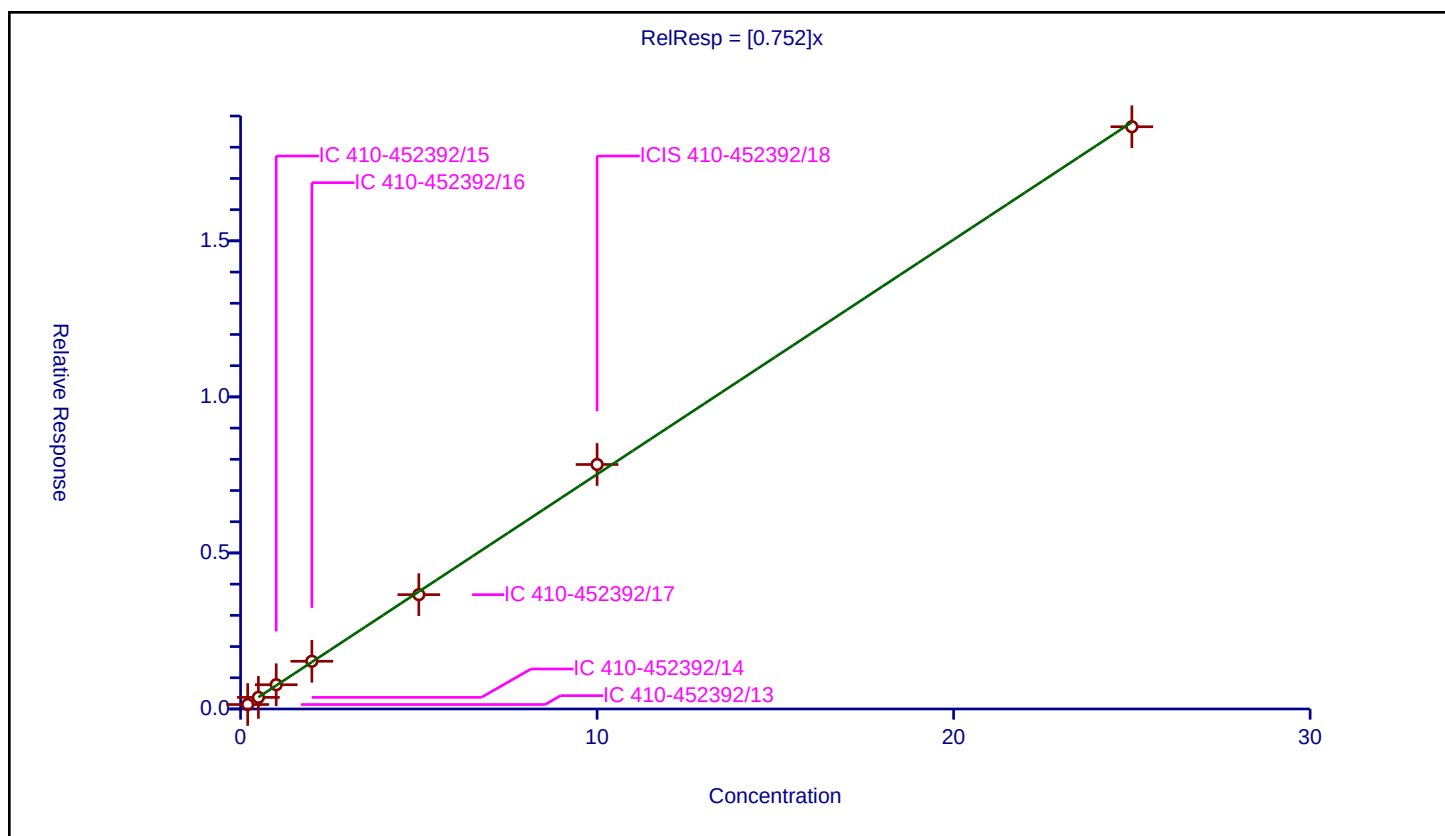
Curve Coefficients

Intercept: 0
Slope: 0.752

Error Coefficients

Standard Error: 1370000
Relative Standard Error: 3.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.143074	10.0	1589112.0	0.715368	Y
2	IC 410-452392/14	0.5	0.372421	10.0	1583369.0	0.744842	Y
3	IC 410-452392/15	1.0	0.776968	10.0	1590219.0	0.776968	Y
4	IC 410-452392/16	2.0	1.529095	10.0	1583289.0	0.764548	Y
5	IC 410-452392/17	5.0	3.663668	10.0	1587835.0	0.732734	Y
6	ICIS 410-452392/18	10.0	7.834108	10.0	1597591.0	0.783411	Y
7	IC 410-452392/19	25.0	18.656657	10.0	1630500.0	0.746266	Y



Calibration

/ Styrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

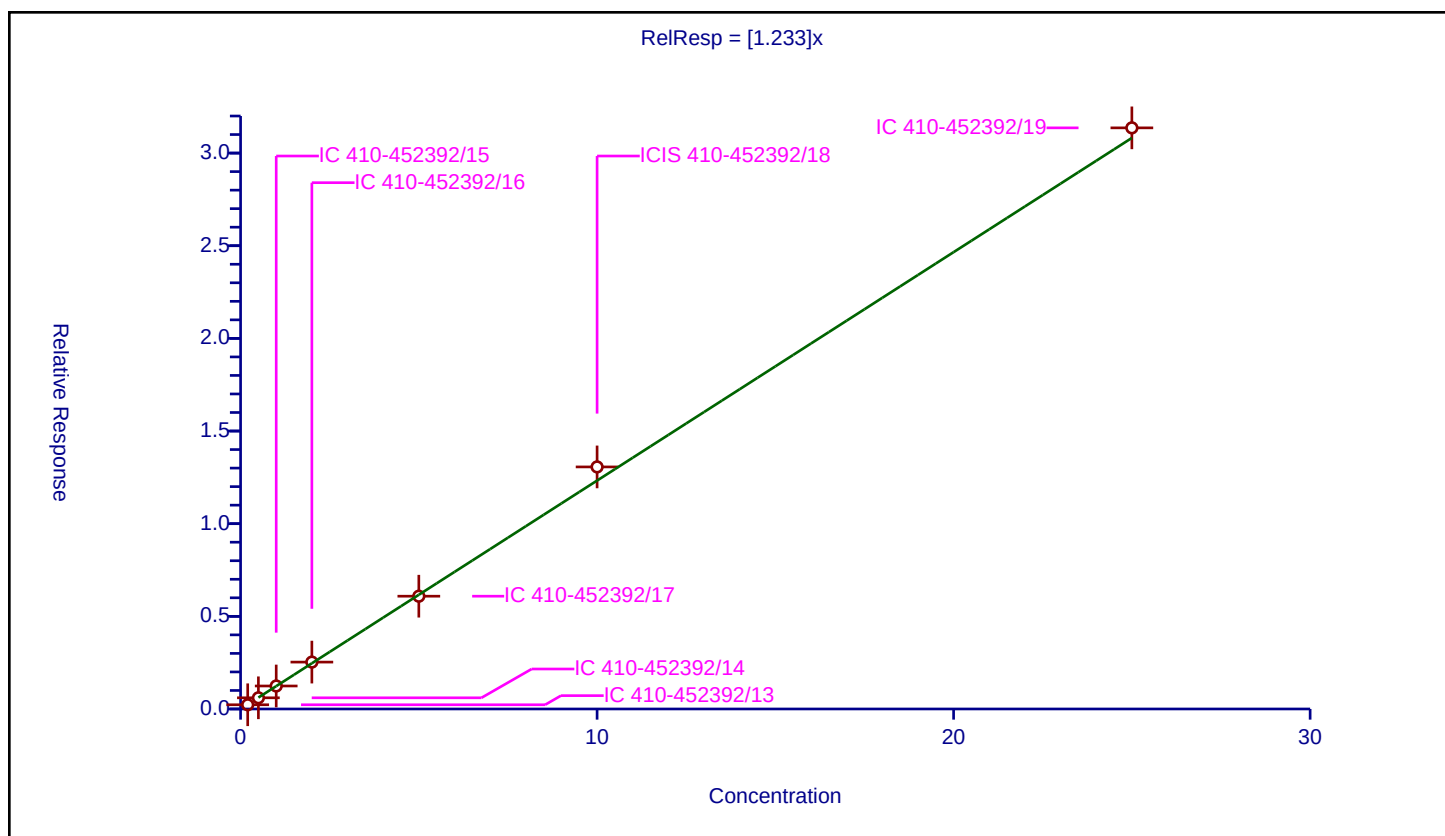
Curve Coefficients

Intercept: 0
Slope: 1.233

Error Coefficients

Standard Error: 2300000
Relative Standard Error: 4.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.227473	10.0	1589112.0	1.137365	Y
2	IC 410-452392/14	0.5	0.603637	10.0	1583369.0	1.207274	Y
3	IC 410-452392/15	1.0	1.240697	10.0	1590219.0	1.240697	Y
4	IC 410-452392/16	2.0	2.530479	10.0	1583289.0	1.26524	Y
5	IC 410-452392/17	5.0	6.086262	10.0	1587835.0	1.217252	Y
6	ICIS 410-452392/18	10.0	13.063688	10.0	1597591.0	1.306369	Y
7	IC 410-452392/19	25.0	31.360638	10.0	1630500.0	1.254426	Y



Calibration

/ Bromoform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

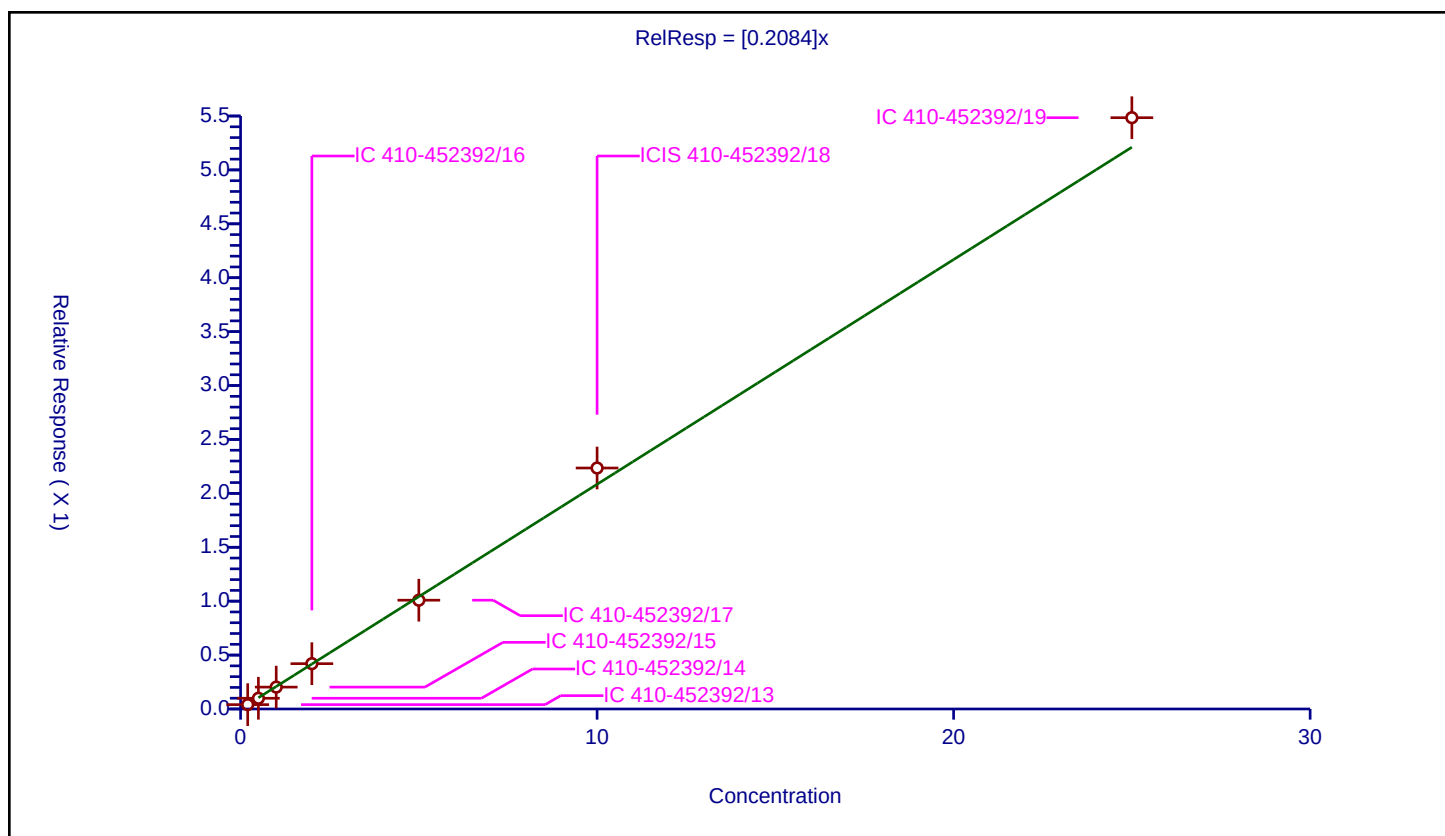
Curve Coefficients

Intercept: 0
Slope: 0.2084

Error Coefficients

Standard Error: 400000
Relative Standard Error: 4.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.040381	10.0	1589112.0	0.201905	Y
2	IC 410-452392/14	0.5	0.099591	10.0	1583369.0	0.199183	Y
3	IC 410-452392/15	1.0	0.203016	10.0	1590219.0	0.203016	Y
4	IC 410-452392/16	2.0	0.420315	10.0	1583289.0	0.210157	Y
5	IC 410-452392/17	5.0	1.009104	10.0	1587835.0	0.201821	Y
6	ICIS 410-452392/18	10.0	2.235159	10.0	1597591.0	0.223516	Y
7	IC 410-452392/19	25.0	5.484502	10.0	1630500.0	0.21938	Y



Calibration

/ Isopropylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

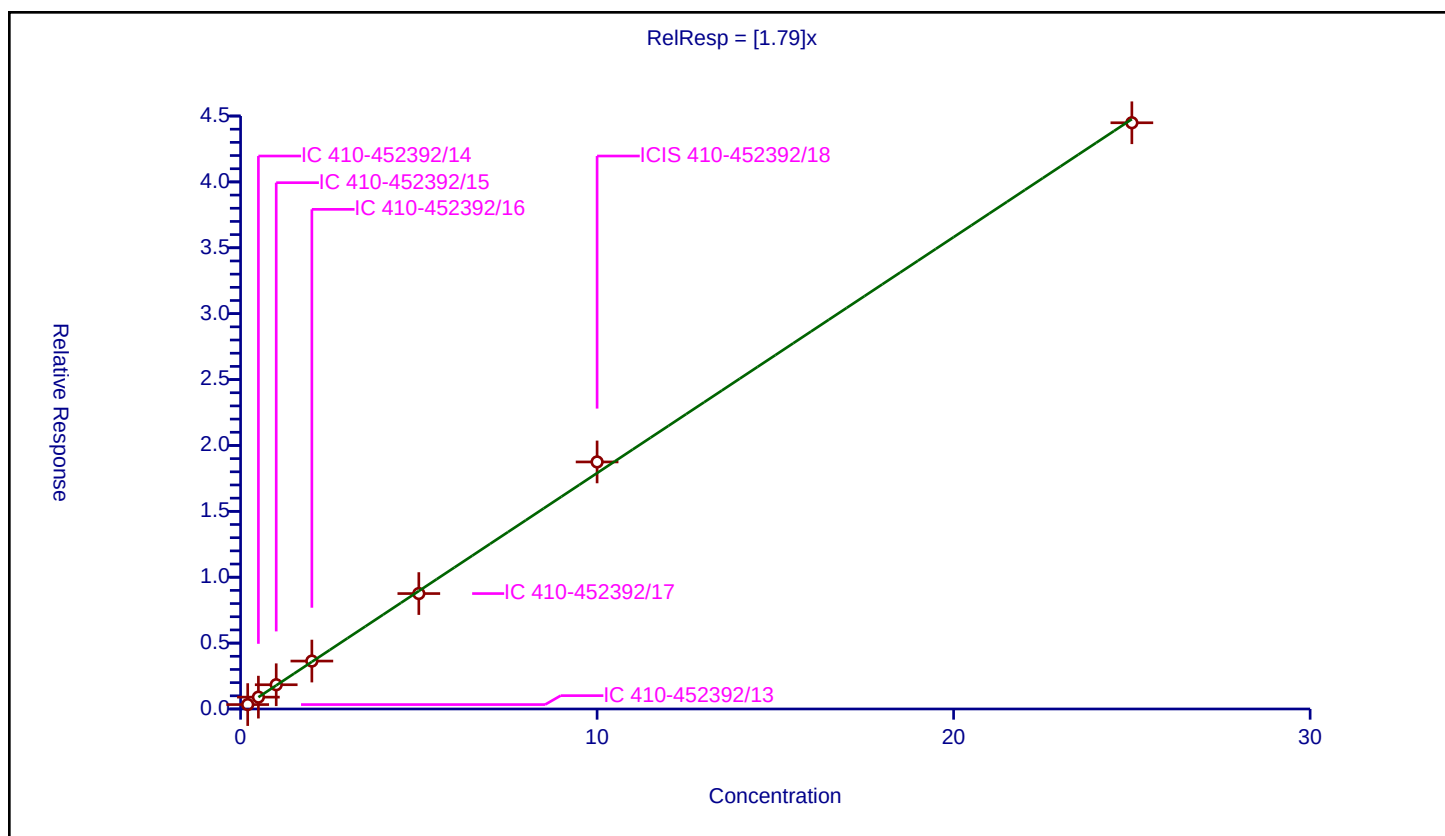
Curve Coefficients

Intercept: 0
Slope: 1.79

Error Coefficients

Standard Error: 3270000
Relative Standard Error: 3.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.333985	10.0	1589112.0	1.669926	Y
2	IC 410-452392/14	0.5	0.898761	10.0	1583369.0	1.797522	Y
3	IC 410-452392/15	1.0	1.841143	10.0	1590219.0	1.841143	Y
4	IC 410-452392/16	2.0	3.636594	10.0	1583289.0	1.818297	Y
5	IC 410-452392/17	5.0	8.758687	10.0	1587835.0	1.751737	Y
6	ICIS 410-452392/18	10.0	18.748328	10.0	1597591.0	1.874833	Y
7	IC 410-452392/19	25.0	44.488065	10.0	1630500.0	1.779523	Y



Calibration

/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

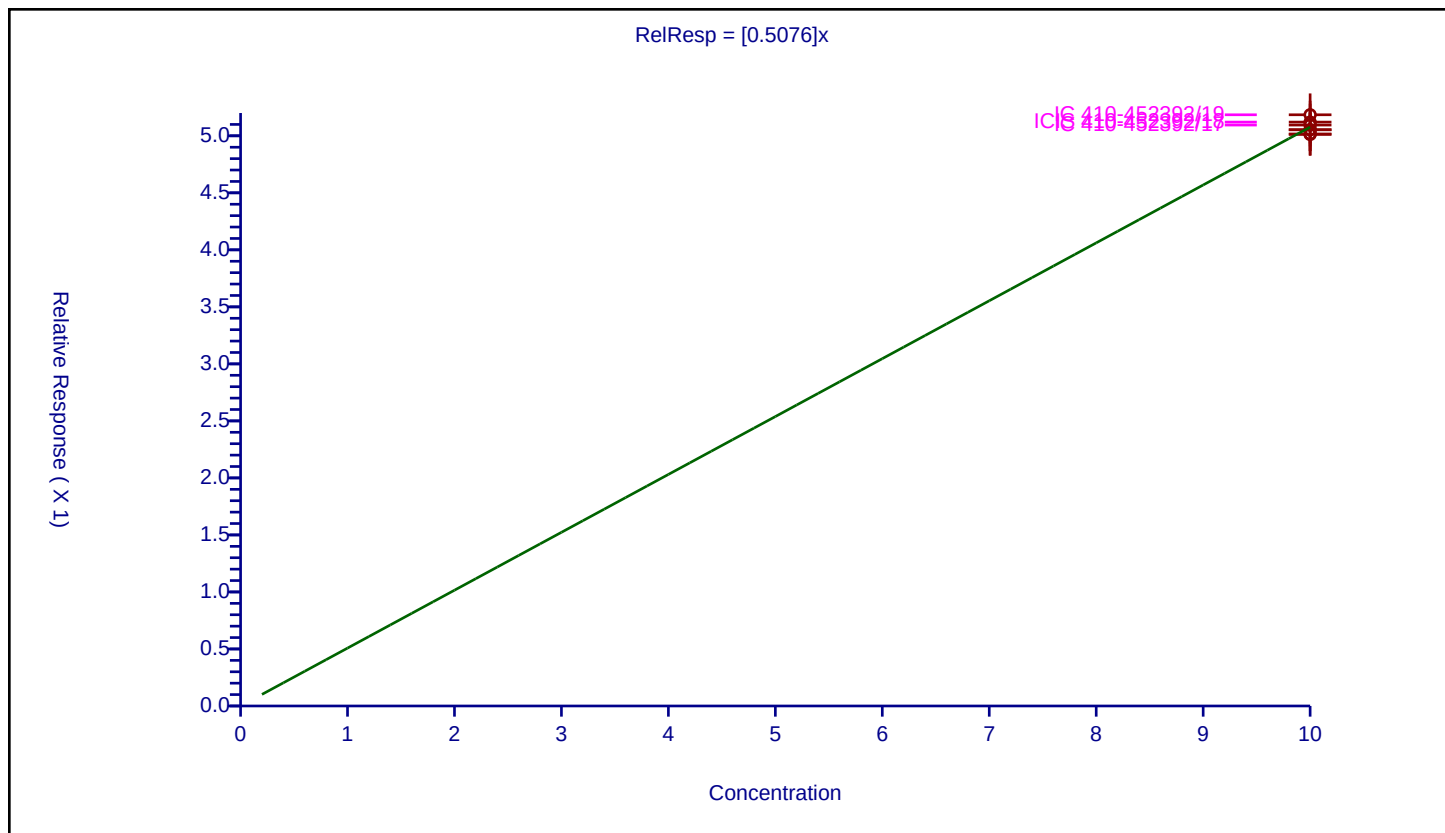
Curve Coefficients

Intercept: 0
Slope: 0.5076

Error Coefficients

Standard Error: 875000
Relative Standard Error: 1.2
Correlation Coefficient: NA
Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	10.0	5.012309	10.0	1589112.0	0.501231	Y
2	IC 410-452392/14	10.0	5.0165	10.0	1583369.0	0.50165	Y
3	IC 410-452392/15	10.0	5.052889	10.0	1590219.0	0.505289	Y
4	IC 410-452392/16	10.0	5.053379	10.0	1583289.0	0.505338	Y
5	IC 410-452392/17	10.0	5.094415	10.0	1587835.0	0.509441	Y
6	ICIS 410-452392/18	10.0	5.120535	10.0	1597591.0	0.512053	Y
7	IC 410-452392/19	10.0	5.18468	10.0	1630500.0	0.518468	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

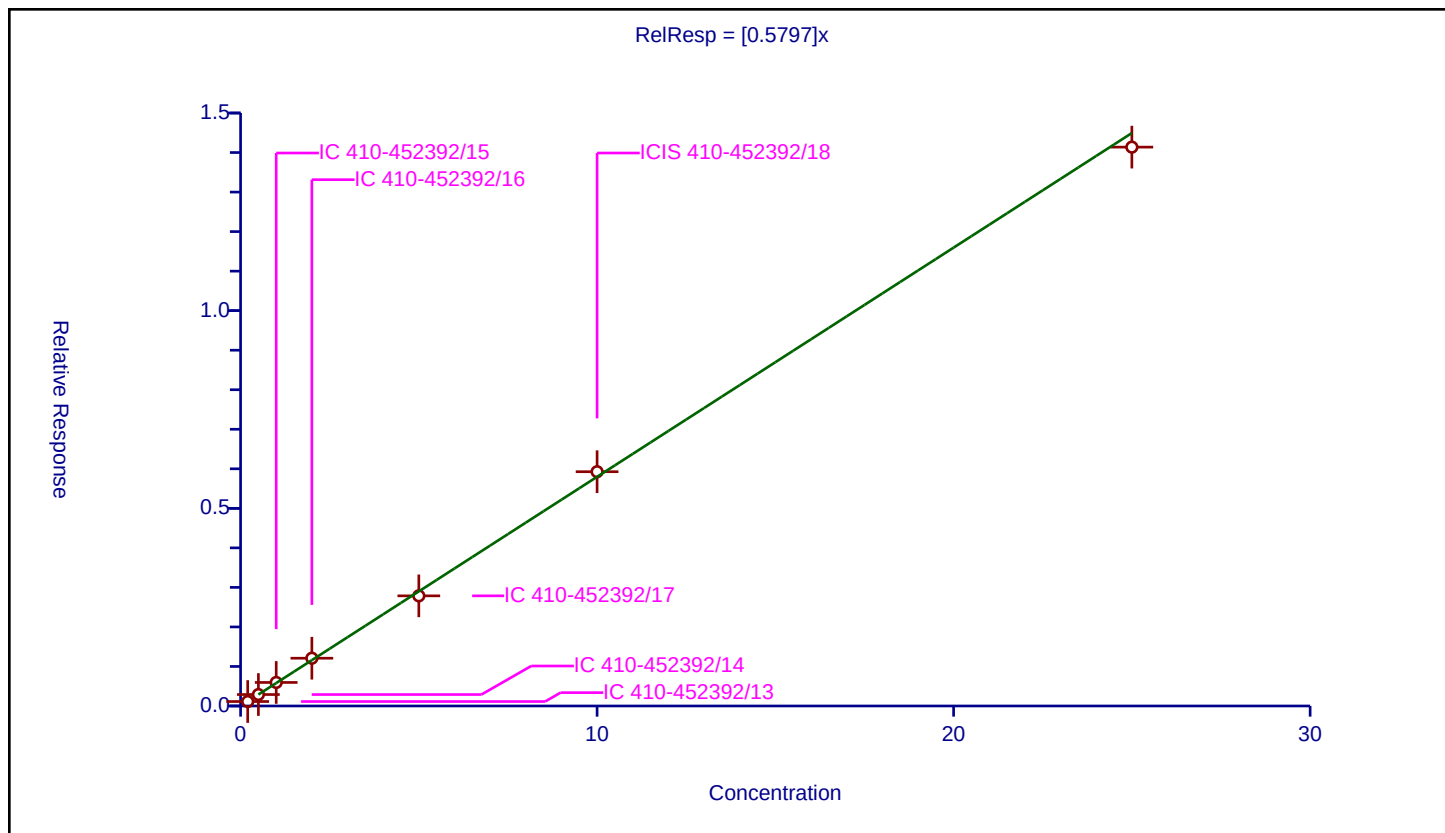
Curve Coefficients

Intercept: 0
 Slope: 0.5797

Error Coefficients

Standard Error: 631000
 Relative Standard Error: 3.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.11279	10.0	910627.0	0.563952	Y
2	IC 410-452392/14	0.5	0.289719	10.0	920721.0	0.579437	Y
3	IC 410-452392/15	1.0	0.595301	10.0	928387.0	0.595301	Y
4	IC 410-452392/16	2.0	1.208339	10.0	919328.0	0.60417	Y
5	IC 410-452392/17	5.0	2.786055	10.0	948445.0	0.557211	Y
6	ICIS 410-452392/18	10.0	5.926205	10.0	965542.0	0.592621	Y
7	IC 410-452392/19	25.0	14.136994	10.0	993545.0	0.56548	Y



Calibration

/ Bromobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

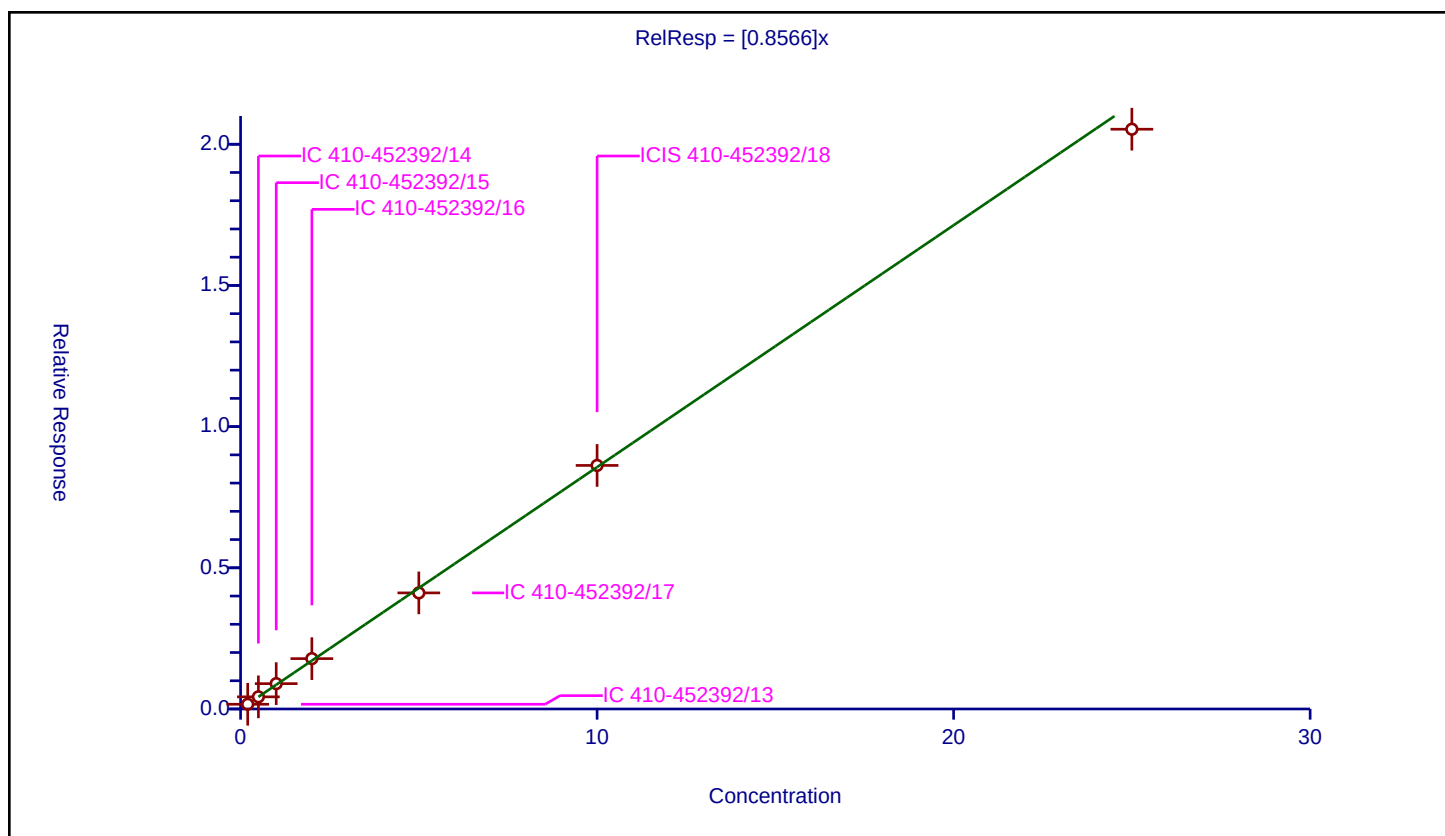
Curve Coefficients

Intercept: 0
 Slope: 0.8566

Error Coefficients

Standard Error: 917000
 Relative Standard Error: 3.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.167939	10.0	910627.0	0.839696	Y
2	IC 410-452392/14	0.5	0.43038	10.0	920721.0	0.86076	Y
3	IC 410-452392/15	1.0	0.89774	10.0	928387.0	0.89774	Y
4	IC 410-452392/16	2.0	1.78339	10.0	919328.0	0.891695	Y
5	IC 410-452392/17	5.0	4.111414	10.0	948445.0	0.822283	Y
6	ICIS 410-452392/18	10.0	8.626005	10.0	965542.0	0.8626	Y
7	IC 410-452392/19	25.0	20.532346	10.0	993545.0	0.821294	Y



Calibration

/ trans-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

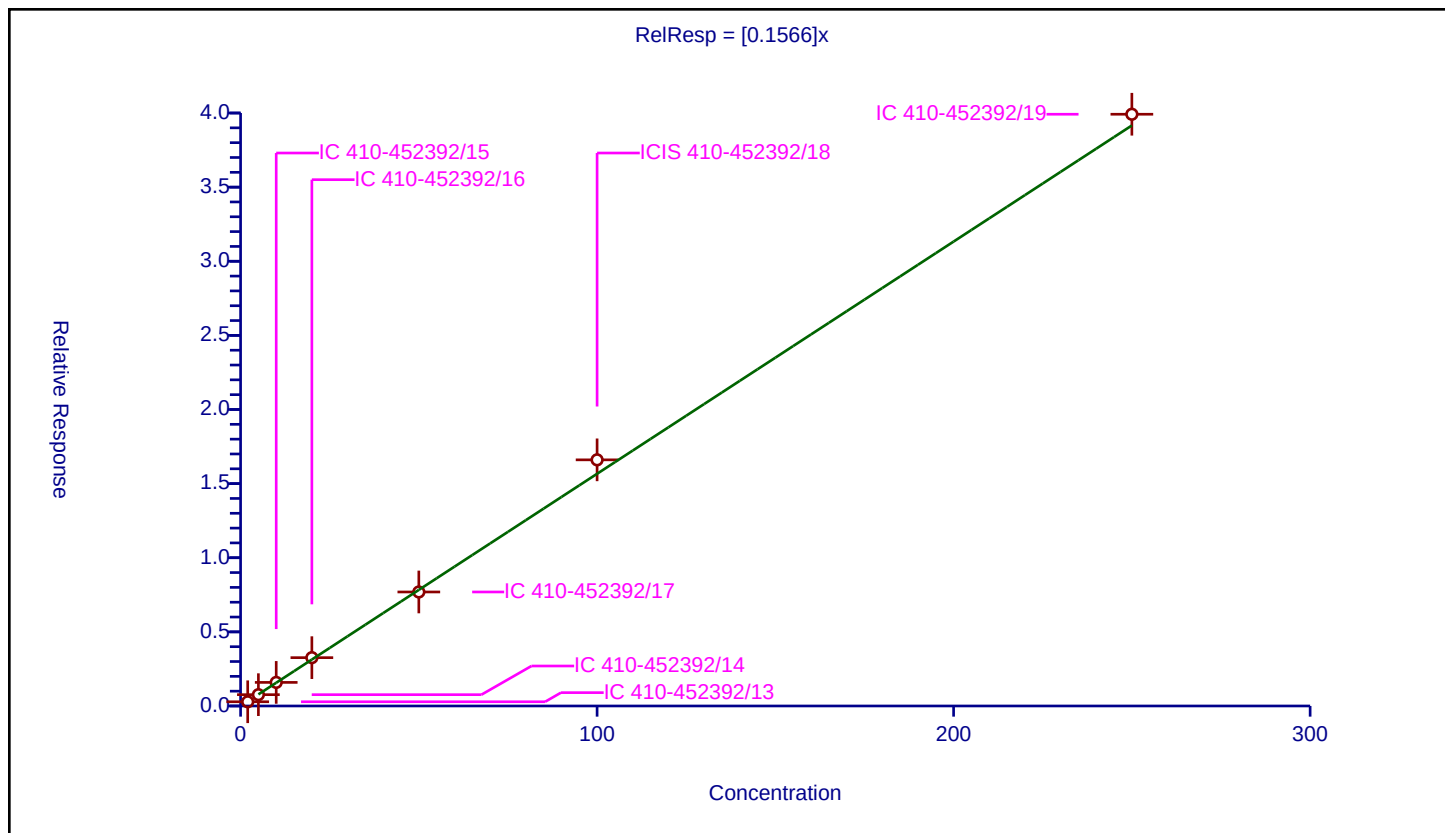
Curve Coefficients

Intercept: 0
Slope: 0.1566

Error Coefficients

Standard Error: 1780000
Relative Standard Error: 5.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	2.0	0.284815	10.0	910627.0	0.142407	Y
2	IC 410-452392/14	5.0	0.762815	10.0	920721.0	0.152563	Y
3	IC 410-452392/15	10.0	1.590177	10.0	928387.0	0.159018	Y
4	IC 410-452392/16	20.0	3.259805	10.0	919328.0	0.16299	Y
5	IC 410-452392/17	50.0	7.690441	10.0	948445.0	0.153809	Y
6	ICIS 410-452392/18	100.0	16.6034	10.0	965542.0	0.166034	Y
7	IC 410-452392/19	250.0	39.916491	10.0	993545.0	0.159666	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

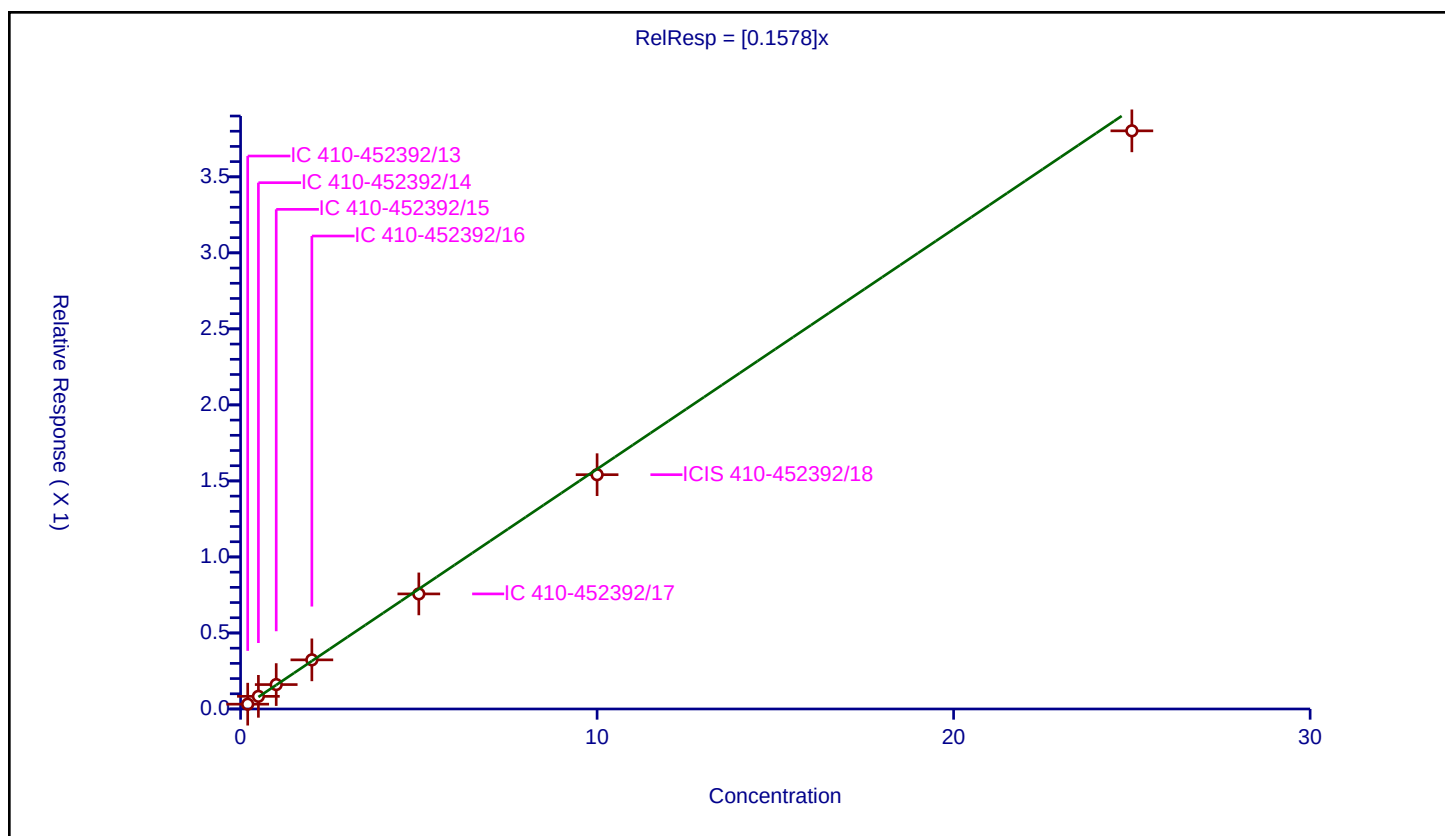
Curve Coefficients

Intercept: 0
Slope: 0.1578

Error Coefficients

Standard Error: 169000
Relative Standard Error: 3.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.031725	10.0	910627.0	0.158627	Y
2	IC 410-452392/14	0.5	0.083196	10.0	920721.0	0.166391	Y
3	IC 410-452392/15	1.0	0.160483	10.0	928387.0	0.160483	Y
4	IC 410-452392/16	2.0	0.323073	10.0	919328.0	0.161536	Y
5	IC 410-452392/17	5.0	0.756965	10.0	948445.0	0.151393	Y
6	ICIS 410-452392/18	10.0	1.540969	10.0	965542.0	0.154097	Y
7	IC 410-452392/19	25.0	3.802445	10.0	993545.0	0.152098	Y



Calibration

/ N-Propylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

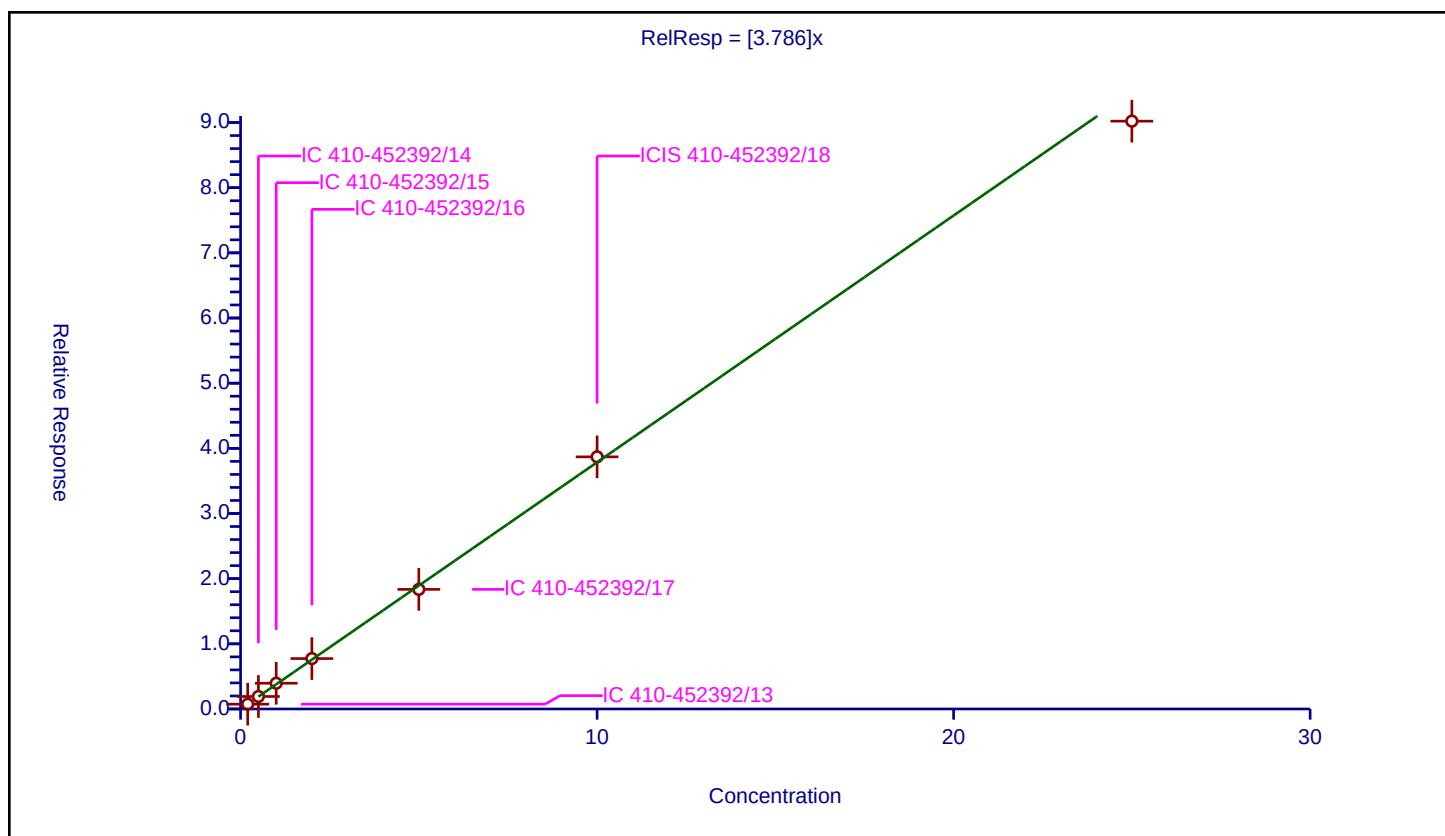
Curve Coefficients

Intercept: 0
Slope: 3.786

Error Coefficients

Standard Error: 4040000
Relative Standard Error: 3.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.739677	10.0	910627.0	3.698386	Y
2	IC 410-452392/14	0.5	1.919202	10.0	920721.0	3.838405	Y
3	IC 410-452392/15	1.0	3.950809	10.0	928387.0	3.950809	Y
4	IC 410-452392/16	2.0	7.736412	10.0	919328.0	3.868206	Y
5	IC 410-452392/17	5.0	18.354464	10.0	948445.0	3.670893	Y
6	ICIS 410-452392/18	10.0	38.692941	10.0	965542.0	3.869294	Y
7	IC 410-452392/19	25.0	90.210891	10.0	993545.0	3.608436	Y



Calibration

/ 2-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

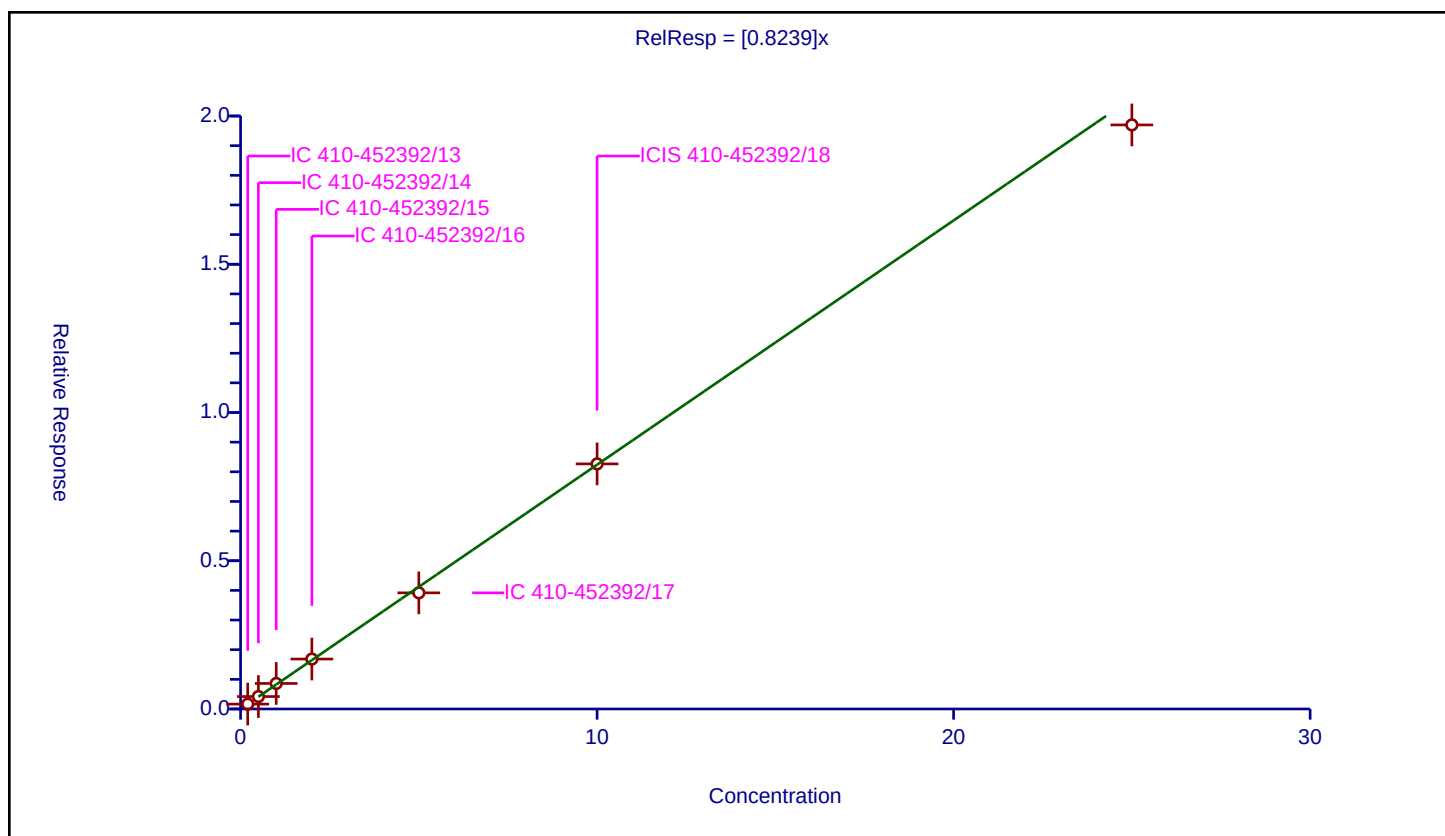
Curve Coefficients

Intercept: 0
Slope: 0.8239

Error Coefficients

Standard Error: 879000
Relative Standard Error: 3.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.165161	10.0	910627.0	0.825805	Y
2	IC 410-452392/14	0.5	0.419932	10.0	920721.0	0.839864	Y
3	IC 410-452392/15	1.0	0.860966	10.0	928387.0	0.860966	Y
4	IC 410-452392/16	2.0	1.684546	10.0	919328.0	0.842273	Y
5	IC 410-452392/17	5.0	3.917728	10.0	948445.0	0.783546	Y
6	ICIS 410-452392/18	10.0	8.266973	10.0	965542.0	0.826697	Y
7	IC 410-452392/19	25.0	19.699198	10.0	993545.0	0.787968	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

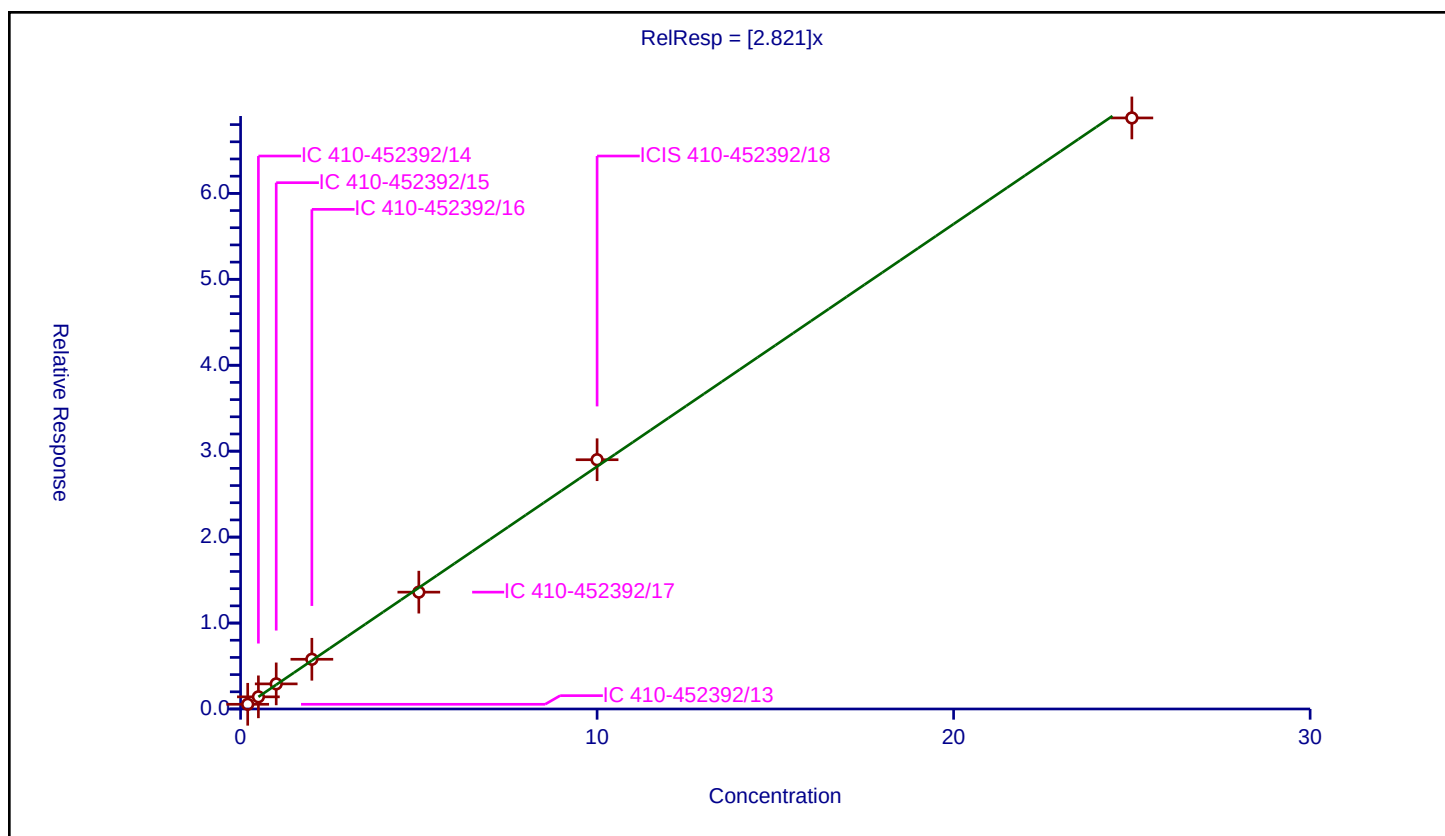
Curve Coefficients

Intercept: 0
 Slope: 2.821

Error Coefficients

Standard Error: 3070000
 Relative Standard Error: 3.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.548106	10.0	910627.0	2.740529	Y
2	IC 410-452392/14	0.5	1.412035	10.0	920721.0	2.824069	Y
3	IC 410-452392/15	1.0	2.922639	10.0	928387.0	2.922639	Y
4	IC 410-452392/16	2.0	5.784181	10.0	919328.0	2.892091	Y
5	IC 410-452392/17	5.0	13.595728	10.0	948445.0	2.719146	Y
6	ICIS 410-452392/18	10.0	29.005098	10.0	965542.0	2.90051	Y
7	IC 410-452392/19	25.0	68.775617	10.0	993545.0	2.751025	Y



Calibration

/ 4-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

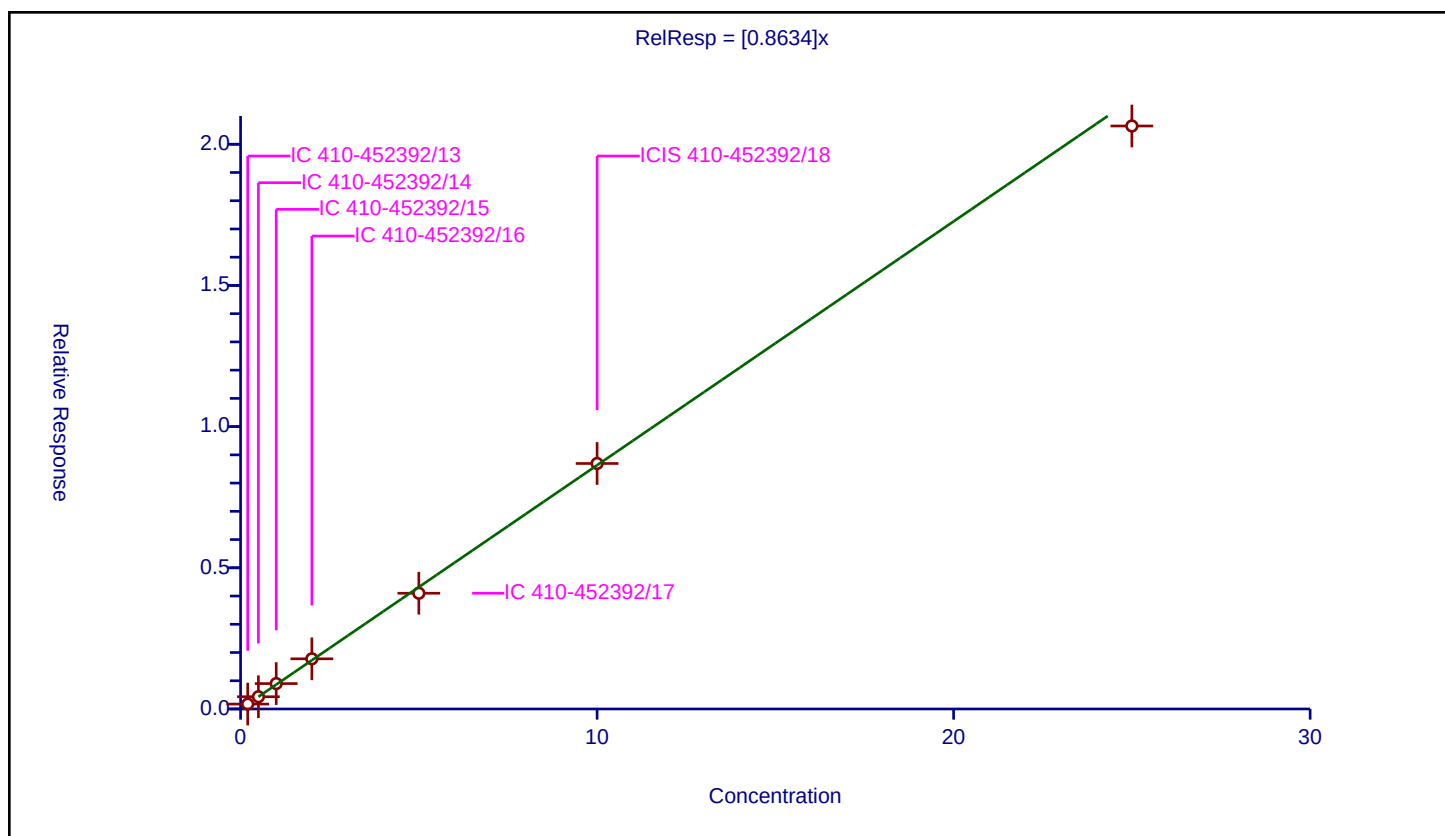
Curve Coefficients

Intercept: 0
Slope: 0.8634

Error Coefficients

Standard Error: 922000
Relative Standard Error: 3.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.174539	10.0	910627.0	0.872695	Y
2	IC 410-452392/14	0.5	0.433845	10.0	920721.0	0.86769	Y
3	IC 410-452392/15	1.0	0.899517	10.0	928387.0	0.899517	Y
4	IC 410-452392/16	2.0	1.777124	10.0	919328.0	0.888562	Y
5	IC 410-452392/17	5.0	4.099183	10.0	948445.0	0.819837	Y
6	ICIS 410-452392/18	10.0	8.694257	10.0	965542.0	0.869426	Y
7	IC 410-452392/19	25.0	20.646936	10.0	993545.0	0.825877	Y



Calibration

/ tert-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

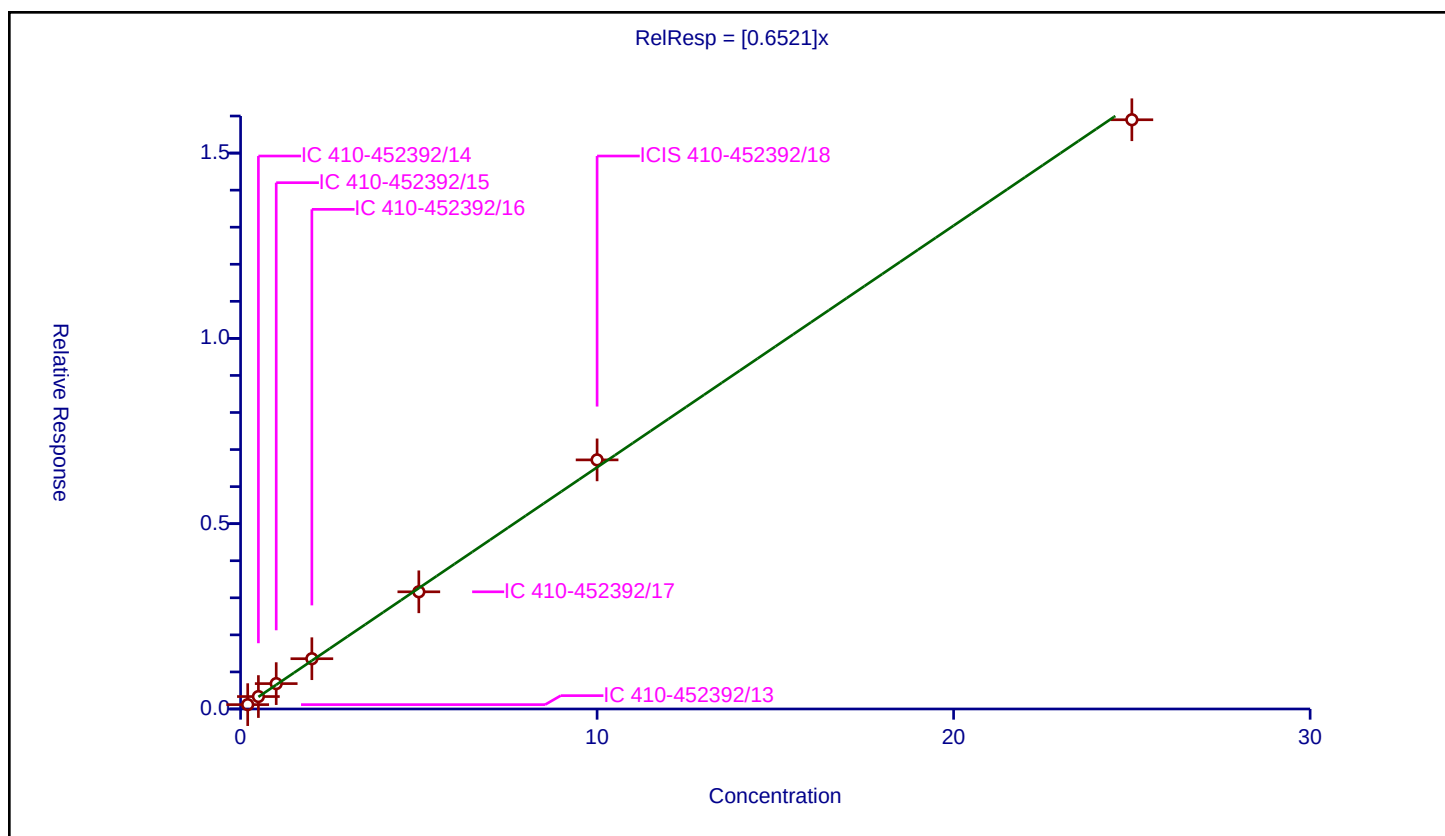
Curve Coefficients

Intercept: 0
Slope: 0.6521

Error Coefficients

Standard Error: 710000
Relative Standard Error: 5.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.117974	10.0	910627.0	0.589868	Y
2	IC 410-452392/14	0.5	0.335769	10.0	920721.0	0.671539	Y
3	IC 410-452392/15	1.0	0.684531	10.0	928387.0	0.684531	Y
4	IC 410-452392/16	2.0	1.356349	10.0	919328.0	0.678175	Y
5	IC 410-452392/17	5.0	3.162239	10.0	948445.0	0.632448	Y
6	ICIS 410-452392/18	10.0	6.721396	10.0	965542.0	0.67214	Y
7	IC 410-452392/19	25.0	15.899582	10.0	993545.0	0.635983	Y



Calibration

/ Pentachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

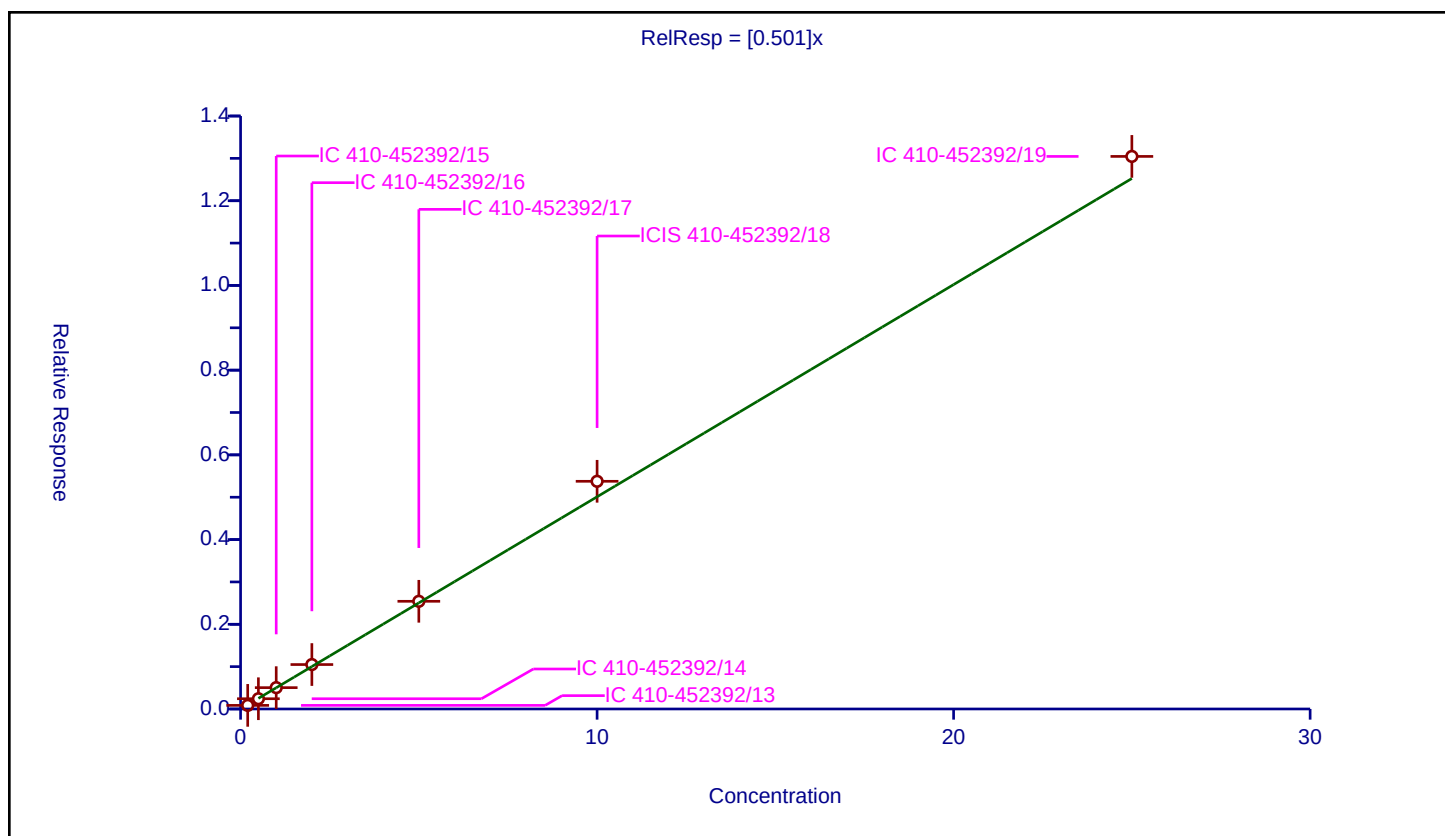
Curve Coefficients

Intercept: 0
 Slope: 0.501

Error Coefficients

Standard Error: 580000
 Relative Standard Error: 7.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.085348	10.0	910627.0	0.426739	Y
2	IC 410-452392/14	0.5	0.241778	10.0	920721.0	0.483556	Y
3	IC 410-452392/15	1.0	0.504014	10.0	928387.0	0.504014	Y
4	IC 410-452392/16	2.0	1.049397	10.0	919328.0	0.524698	Y
5	IC 410-452392/17	5.0	2.542636	10.0	948445.0	0.508527	Y
6	ICIS 410-452392/18	10.0	5.37554	10.0	965542.0	0.537554	Y
7	IC 410-452392/19	25.0	13.046163	10.0	993545.0	0.521847	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

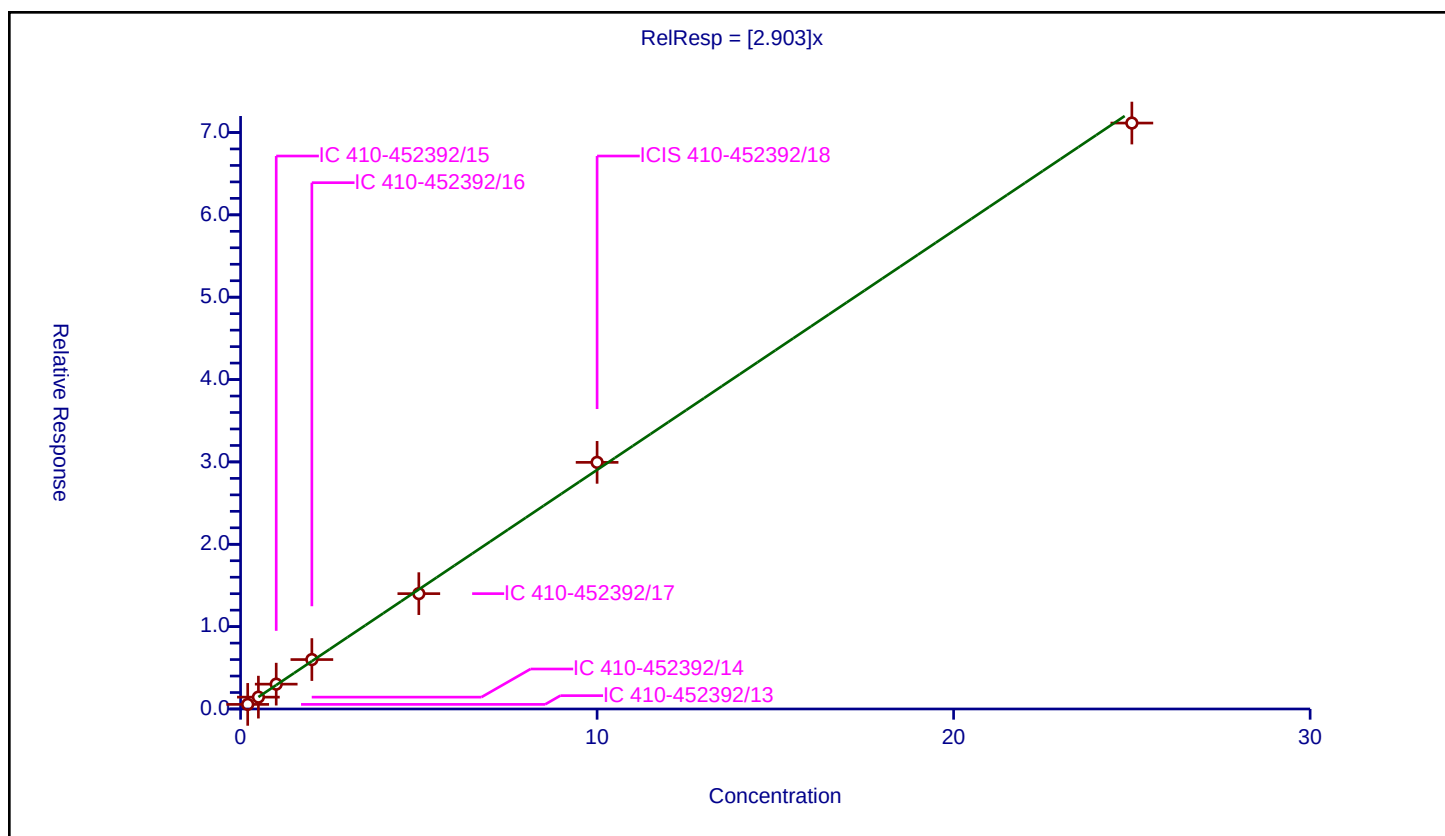
Curve Coefficients

Intercept: 0
 Slope: 2.903

Error Coefficients

Standard Error: 3180000
 Relative Standard Error: 3.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.557253	10.0	910627.0	2.786267	Y
2	IC 410-452392/14	0.5	1.439285	10.0	920721.0	2.87857	Y
3	IC 410-452392/15	1.0	3.016695	10.0	928387.0	3.016695	Y
4	IC 410-452392/16	2.0	6.000622	10.0	919328.0	3.000311	Y
5	IC 410-452392/17	5.0	14.006442	10.0	948445.0	2.801288	Y
6	ICIS 410-452392/18	10.0	29.947087	10.0	965542.0	2.994709	Y
7	IC 410-452392/19	25.0	71.144367	10.0	993545.0	2.845775	Y



Calibration

/ sec-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

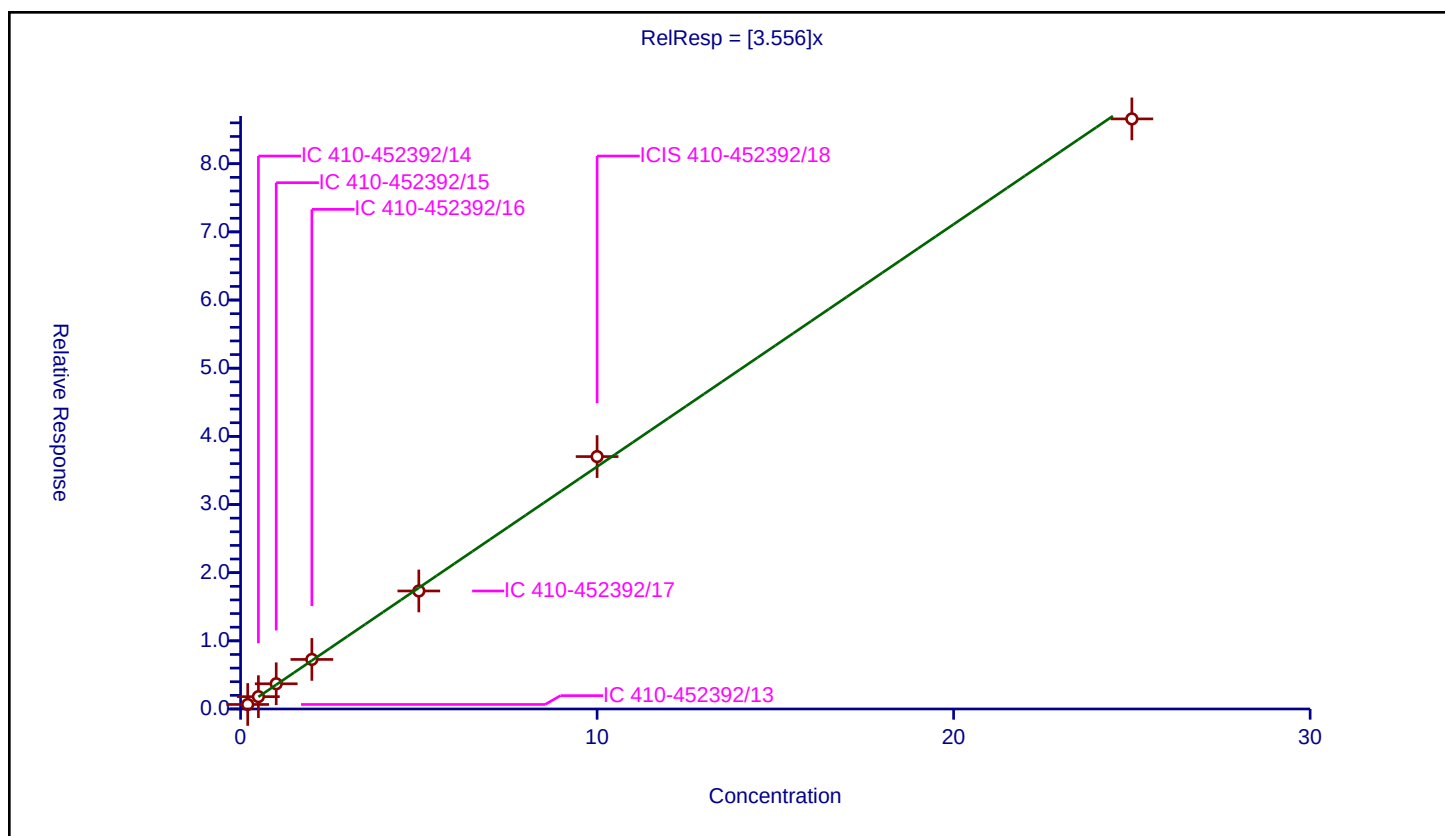
Curve Coefficients

Intercept: 0
Slope: 3.556

Error Coefficients

Standard Error: 3870000
Relative Standard Error: 4.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.661204	10.0	910627.0	3.306019	Y
2	IC 410-452392/14	0.5	1.808724	10.0	920721.0	3.617448	Y
3	IC 410-452392/15	1.0	3.70031	10.0	928387.0	3.70031	Y
4	IC 410-452392/16	2.0	7.272856	10.0	919328.0	3.636428	Y
5	IC 410-452392/17	5.0	17.313634	10.0	948445.0	3.462727	Y
6	ICIS 410-452392/18	10.0	37.03348	10.0	965542.0	3.703348	Y
7	IC 410-452392/19	25.0	86.578585	10.0	993545.0	3.463143	Y



Calibration

/ 1,3-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

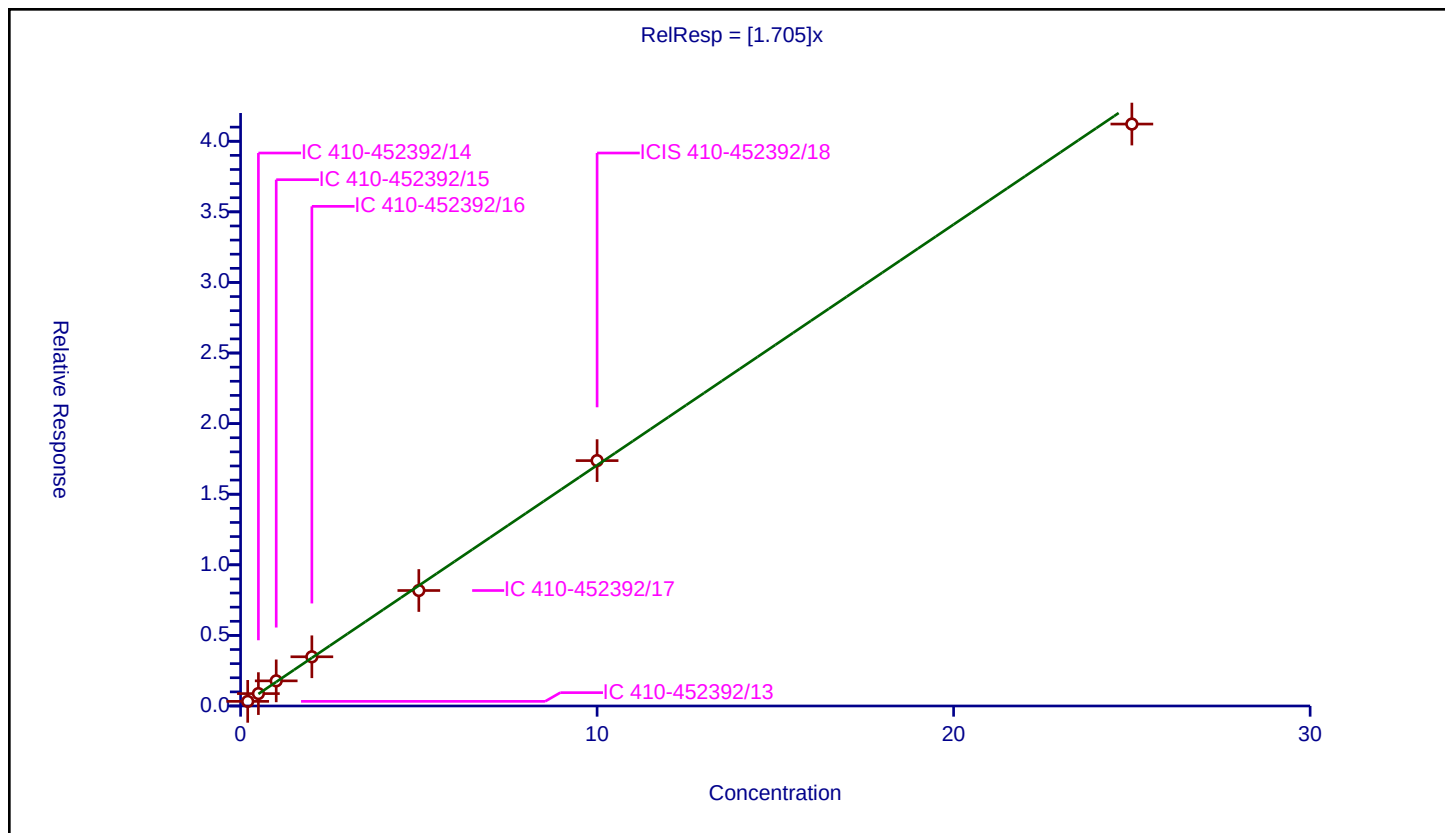
Curve Coefficients

Intercept: 0
 Slope: 1.705

Error Coefficients

Standard Error: 1840000
 Relative Standard Error: 3.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.327049	10.0	910627.0	1.635247	Y
2	IC 410-452392/14	0.5	0.877986	10.0	920721.0	1.755972	Y
3	IC 410-452392/15	1.0	1.780184	10.0	928387.0	1.780184	Y
4	IC 410-452392/16	2.0	3.484795	10.0	919328.0	1.742398	Y
5	IC 410-452392/17	5.0	8.179852	10.0	948445.0	1.63597	Y
6	ICIS 410-452392/18	10.0	17.380518	10.0	965542.0	1.738052	Y
7	IC 410-452392/19	25.0	41.218596	10.0	993545.0	1.648744	Y



Calibration

/ 4-Isopropyltoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

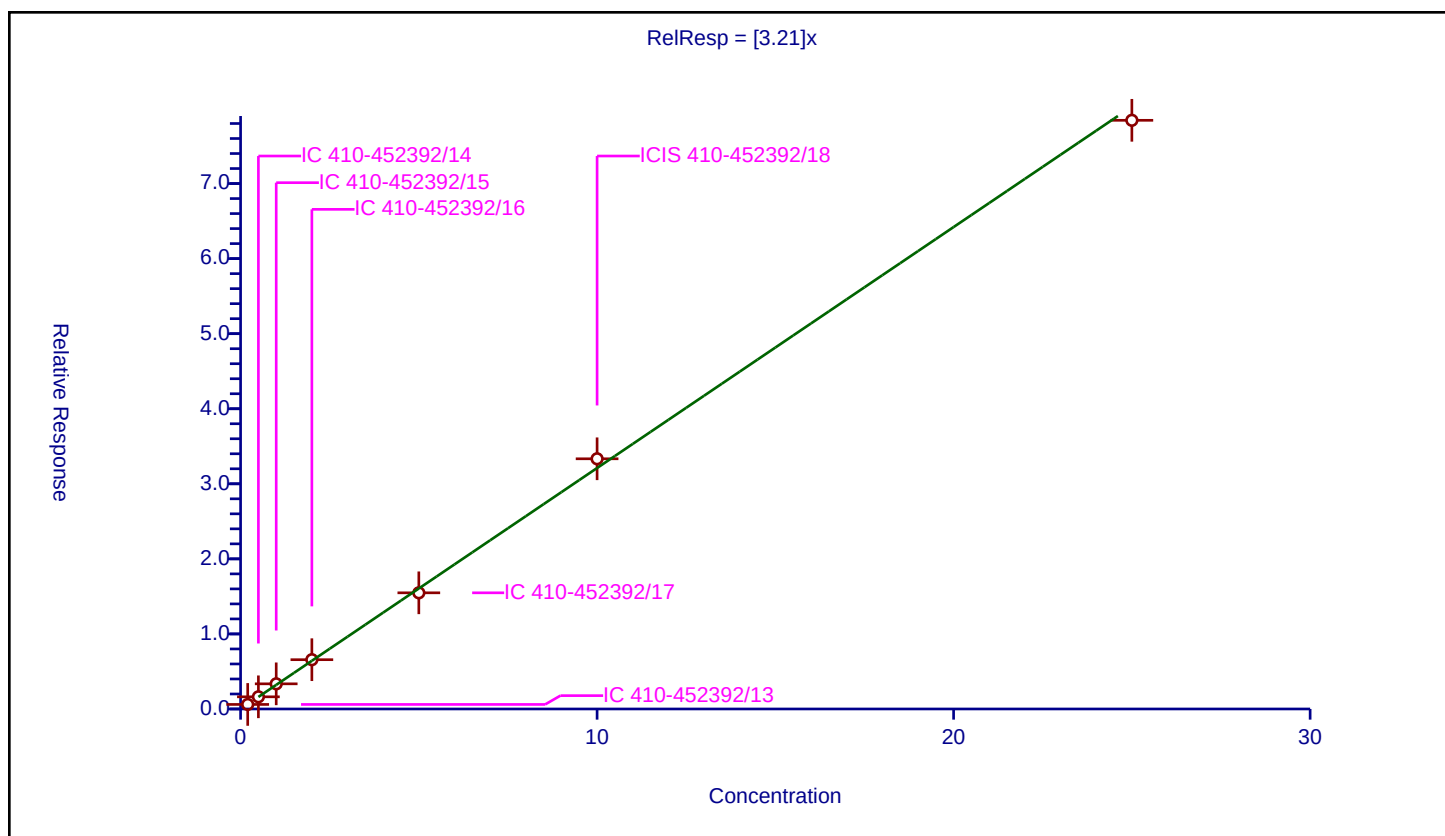
Curve Coefficients

Intercept: 0
 Slope: 3.21

Error Coefficients

Standard Error: 3510000
 Relative Standard Error: 3.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.606143	10.0	910627.0	3.030714	Y
2	IC 410-452392/14	0.5	1.620111	10.0	920721.0	3.240222	Y
3	IC 410-452392/15	1.0	3.350661	10.0	928387.0	3.350661	Y
4	IC 410-452392/16	2.0	6.568602	10.0	919328.0	3.284301	Y
5	IC 410-452392/17	5.0	15.478093	10.0	948445.0	3.095619	Y
6	ICIS 410-452392/18	10.0	33.332626	10.0	965542.0	3.333263	Y
7	IC 410-452392/19	25.0	78.429674	10.0	993545.0	3.137187	Y



Calibration

/ 1,4-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

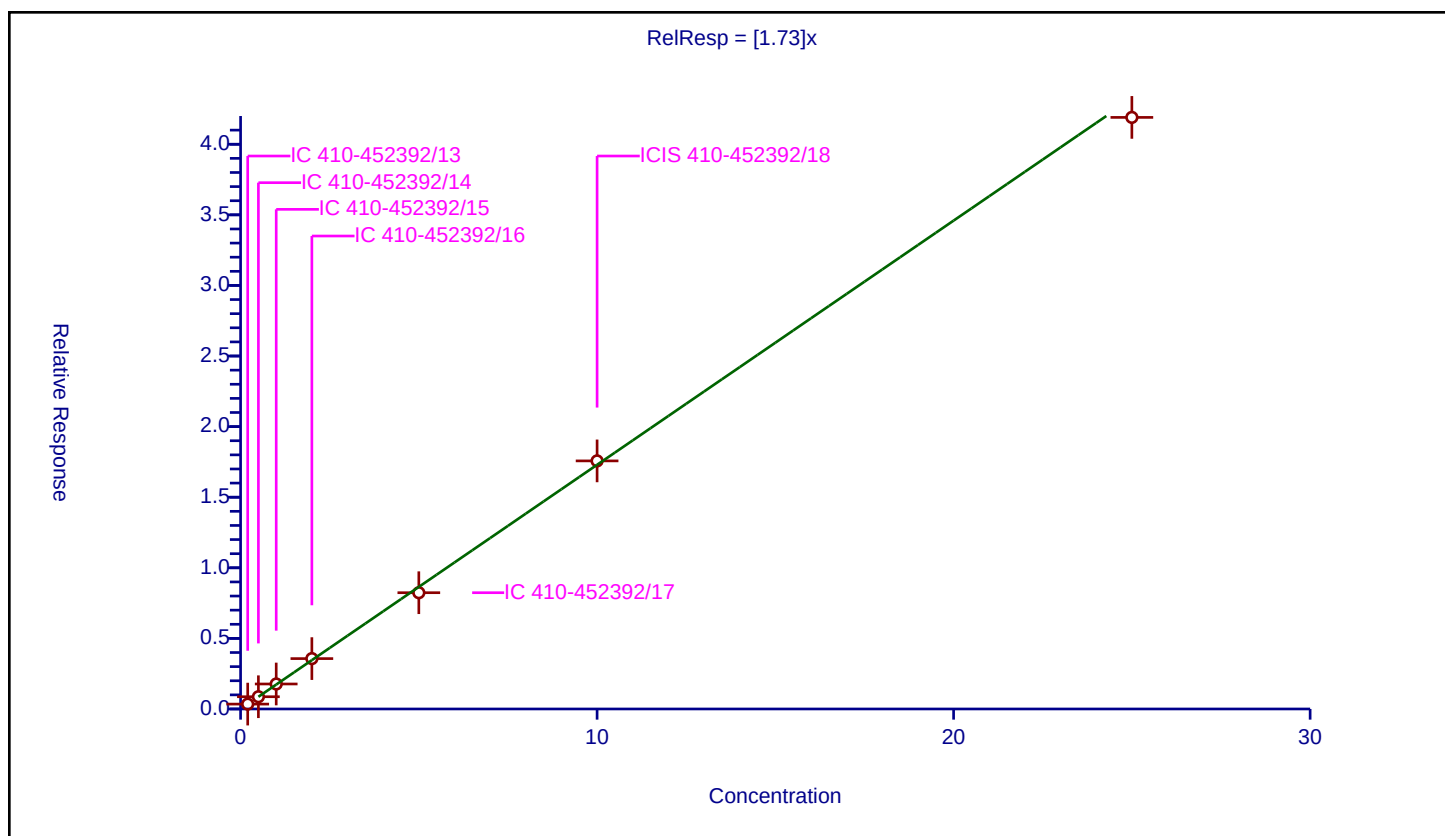
Curve Coefficients

Intercept: 0
Slope: 1.73

Error Coefficients

Standard Error: 1870000
Relative Standard Error: 2.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.347244	10.0	910627.0	1.736221	Y
2	IC 410-452392/14	0.5	0.867635	10.0	920721.0	1.735271	Y
3	IC 410-452392/15	1.0	1.770566	10.0	928387.0	1.770566	Y
4	IC 410-452392/16	2.0	3.56927	10.0	919328.0	1.784635	Y
5	IC 410-452392/17	5.0	8.235143	10.0	948445.0	1.647029	Y
6	ICIS 410-452392/18	10.0	17.571654	10.0	965542.0	1.757165	Y
7	IC 410-452392/19	25.0	41.902652	10.0	993545.0	1.676106	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

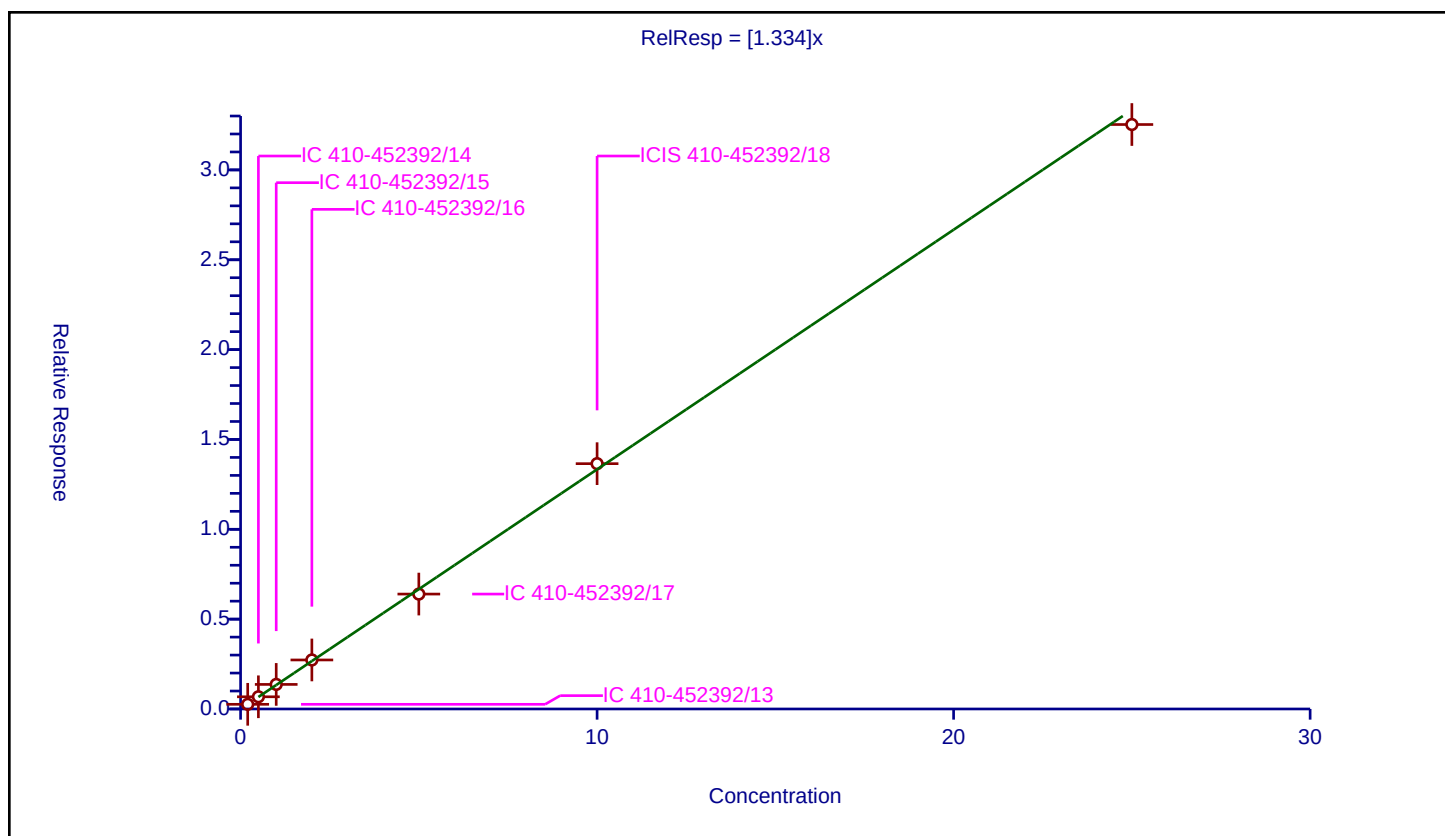
Curve Coefficients

Intercept: 0
Slope: 1.334

Error Coefficients

Standard Error: 1450000
Relative Standard Error: 2.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.260238	10.0	910627.0	1.301191	Y
2	IC 410-452392/14	0.5	0.67824	10.0	920721.0	1.35648	Y
3	IC 410-452392/15	1.0	1.367749	10.0	928387.0	1.367749	Y
4	IC 410-452392/16	2.0	2.727895	10.0	919328.0	1.363947	Y
5	IC 410-452392/17	5.0	6.395532	10.0	948445.0	1.279106	Y
6	ICIS 410-452392/18	10.0	13.65286	10.0	965542.0	1.365286	Y
7	IC 410-452392/19	25.0	32.526639	10.0	993545.0	1.301066	Y



Calibration

/ Benzyl chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

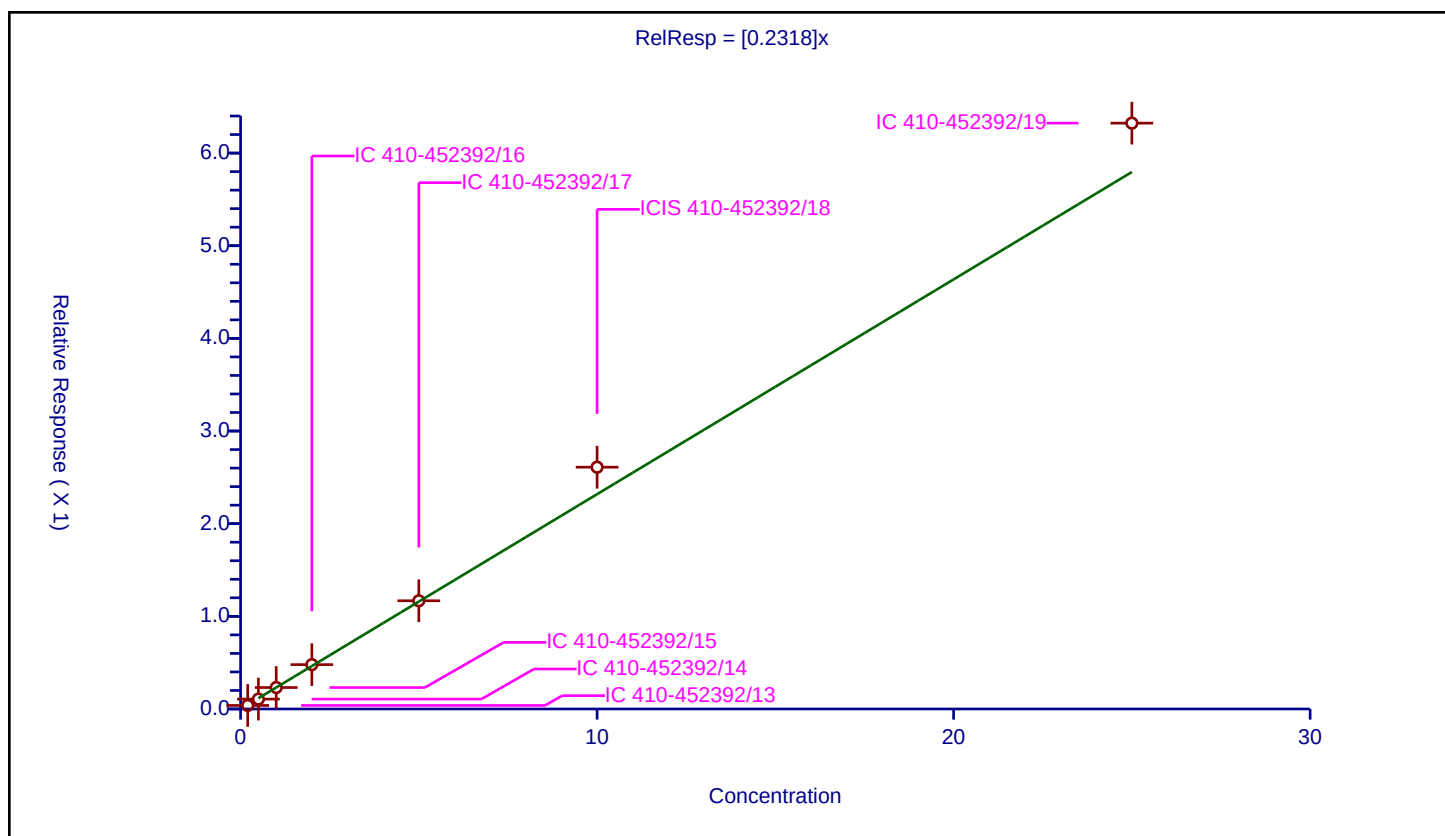
Curve Coefficients

Intercept: 0
 Slope: 0.2318

Error Coefficients

Standard Error: 281000
 Relative Standard Error: 10.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.038182	10.0	910627.0	0.190912	Y
2	IC 410-452392/14	0.5	0.106634	10.0	920721.0	0.213268	Y
3	IC 410-452392/15	1.0	0.23166	10.0	928387.0	0.23166	Y
4	IC 410-452392/16	2.0	0.47885	10.0	919328.0	0.239425	Y
5	IC 410-452392/17	5.0	1.168101	10.0	948445.0	0.23362	Y
6	ICIS 410-452392/18	10.0	2.609881	10.0	965542.0	0.260988	Y
7	IC 410-452392/19	25.0	6.323146	10.0	993545.0	0.252926	Y



Calibration

/ n-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

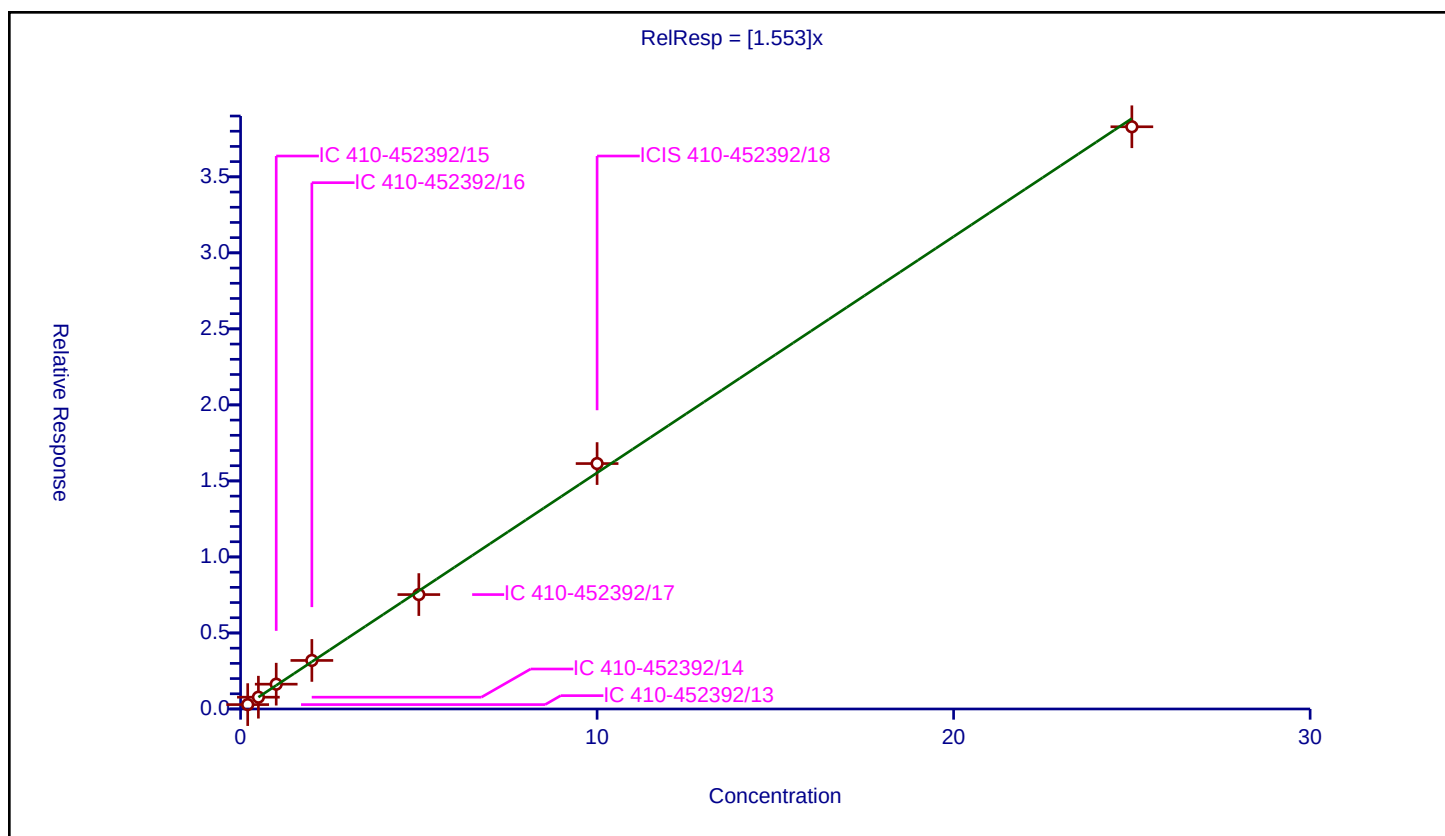
Curve Coefficients

Intercept: 0
 Slope: 1.553

Error Coefficients

Standard Error: 1710000
 Relative Standard Error: 4.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.288702	10.0	910627.0	1.443511	Y
2	IC 410-452392/14	0.5	0.775642	10.0	920721.0	1.551284	Y
3	IC 410-452392/15	1.0	1.631766	10.0	928387.0	1.631766	Y
4	IC 410-452392/16	2.0	3.193354	10.0	919328.0	1.596677	Y
5	IC 410-452392/17	5.0	7.525054	10.0	948445.0	1.505011	Y
6	ICIS 410-452392/18	10.0	16.142384	10.0	965542.0	1.614238	Y
7	IC 410-452392/19	25.0	38.292418	10.0	993545.0	1.531697	Y



Calibration

/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

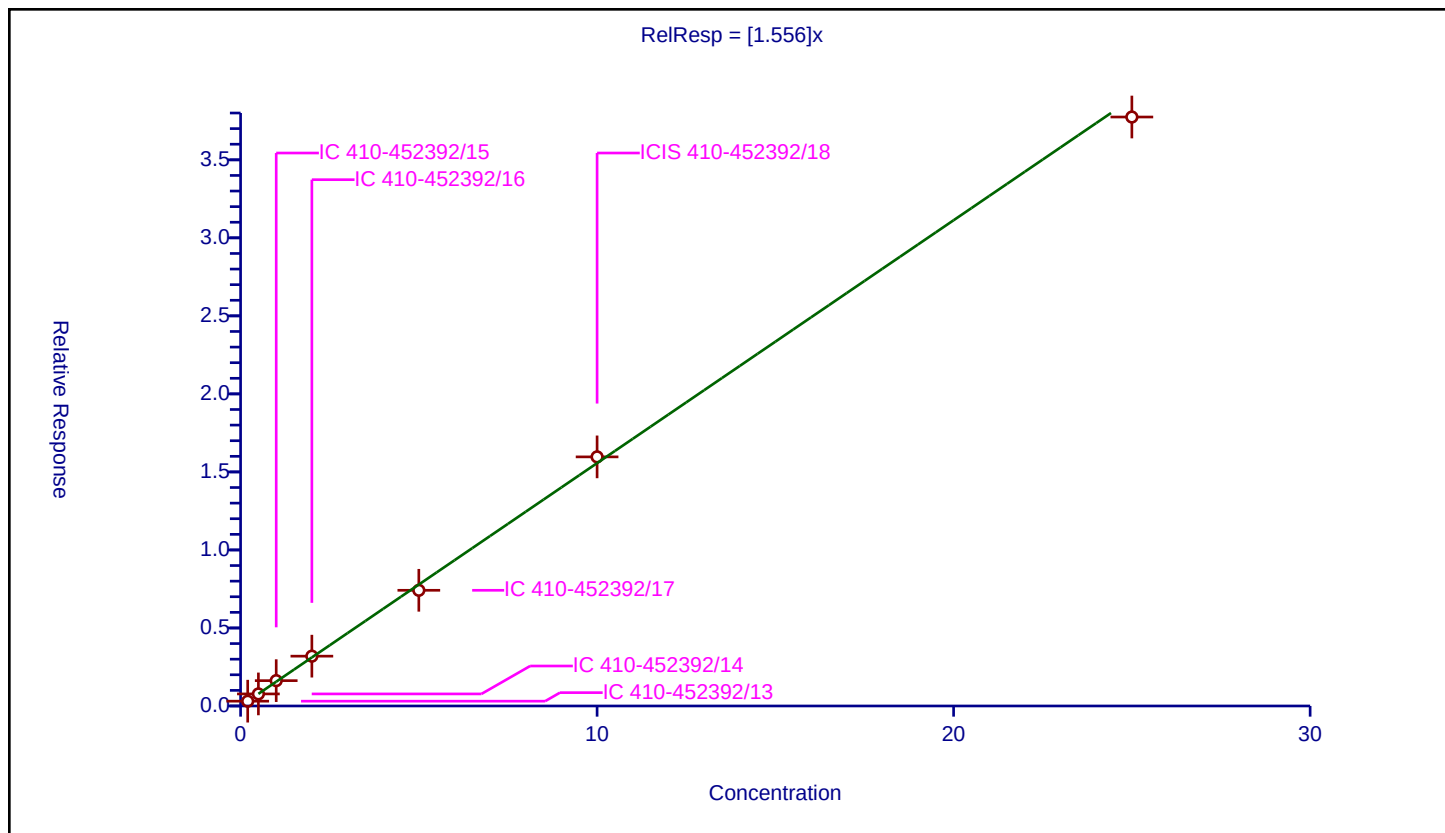
Curve Coefficients

Intercept: 0
Slope: 1.556

Error Coefficients

Standard Error: 1690000
Relative Standard Error: 3.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.307942	10.0	910627.0	1.539708	Y
2	IC 410-452392/14	0.5	0.773155	10.0	920721.0	1.54631	Y
3	IC 410-452392/15	1.0	1.623579	10.0	928387.0	1.623579	Y
4	IC 410-452392/16	2.0	3.193224	10.0	919328.0	1.596612	Y
5	IC 410-452392/17	5.0	7.413503	10.0	948445.0	1.482701	Y
6	ICIS 410-452392/18	10.0	15.963852	10.0	965542.0	1.596385	Y
7	IC 410-452392/19	25.0	37.7428	10.0	993545.0	1.509712	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

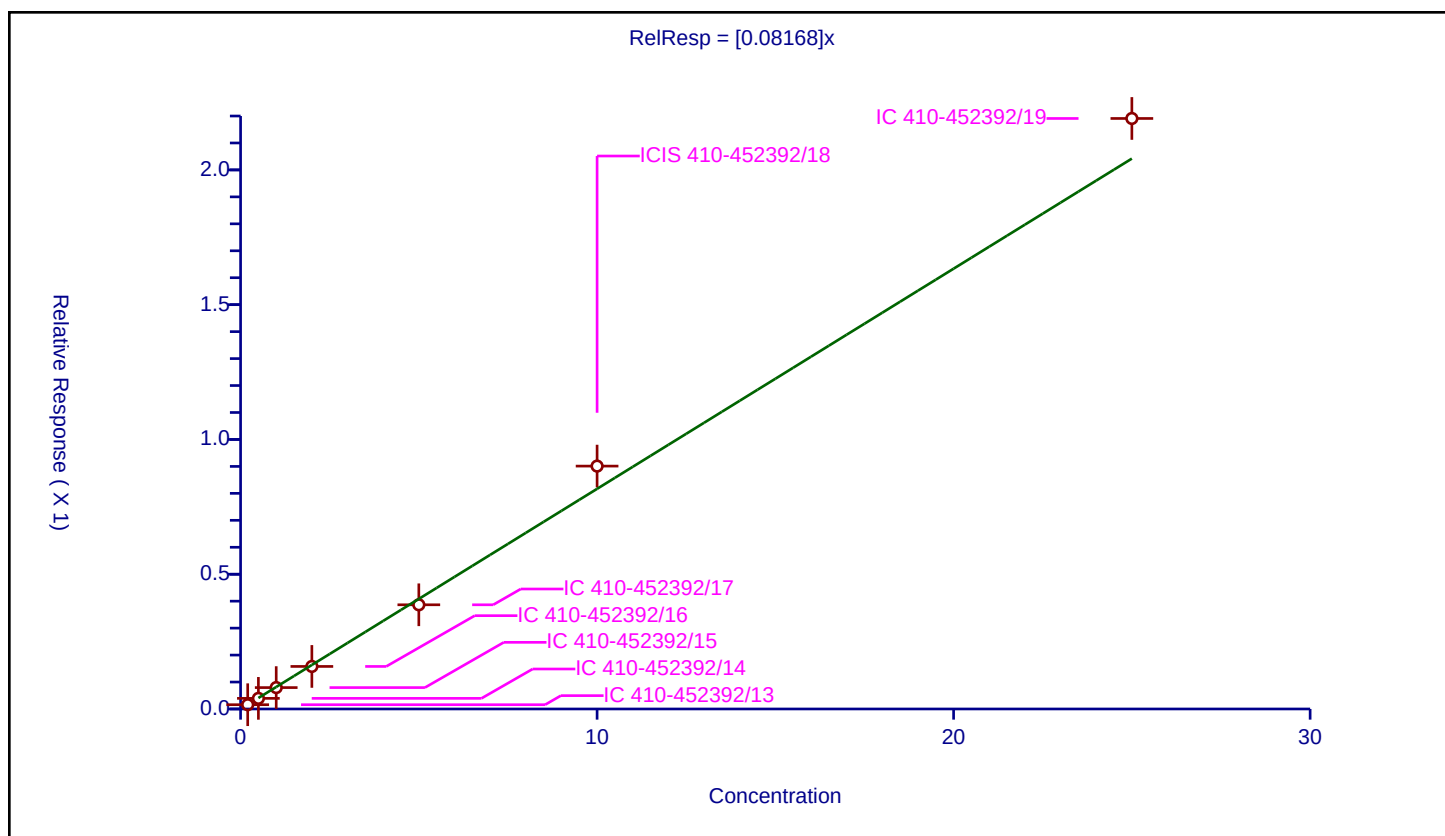
Curve Coefficients

Intercept: 0
Slope: 0.08168

Error Coefficients

Standard Error: 97100
Relative Standard Error: 6.1
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.015912	10.0	910627.0	0.079561	Y
2	IC 410-452392/14	0.5	0.039404	10.0	920721.0	0.078808	Y
3	IC 410-452392/15	1.0	0.079428	10.0	928387.0	0.079428	Y
4	IC 410-452392/16	2.0	0.157822	10.0	919328.0	0.078911	Y
5	IC 410-452392/17	5.0	0.386549	10.0	948445.0	0.07731	Y
6	ICIS 410-452392/18	10.0	0.901142	10.0	965542.0	0.090114	Y
7	IC 410-452392/19	25.0	2.190862	10.0	993545.0	0.087634	Y



Calibration

/ 1,3,5-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

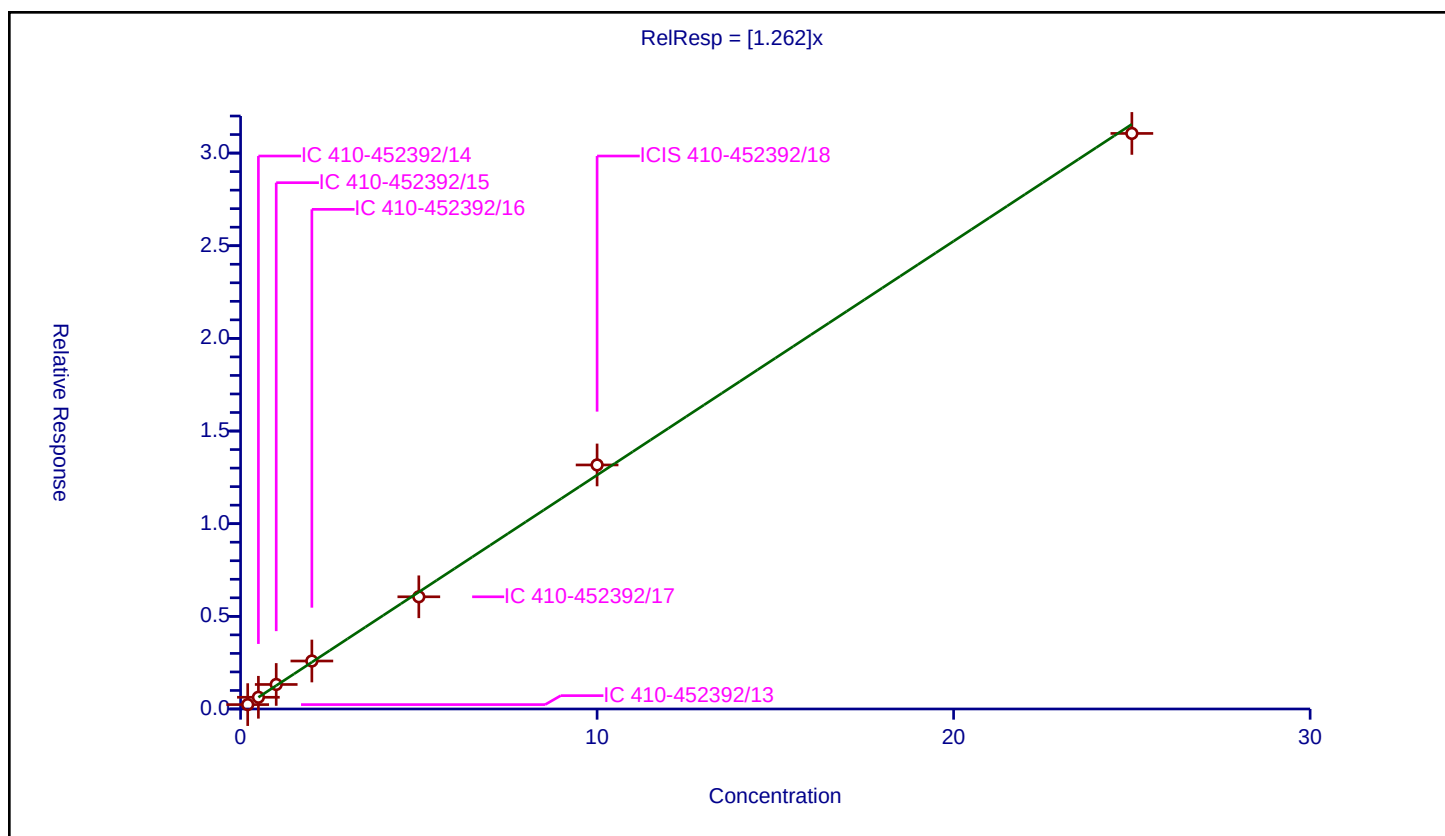
Curve Coefficients

Intercept: 0
 Slope: 1.262

Error Coefficients

Standard Error: 1390000
 Relative Standard Error: 4.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.236145	10.0	910627.0	1.180725	Y
2	IC 410-452392/14	0.5	0.633167	10.0	920721.0	1.266334	Y
3	IC 410-452392/15	1.0	1.323521	10.0	928387.0	1.323521	Y
4	IC 410-452392/16	2.0	2.589859	10.0	919328.0	1.29493	Y
5	IC 410-452392/17	5.0	6.054879	10.0	948445.0	1.210976	Y
6	ICIS 410-452392/18	10.0	13.170333	10.0	965542.0	1.317033	Y
7	IC 410-452392/19	25.0	31.0597	10.0	993545.0	1.242388	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

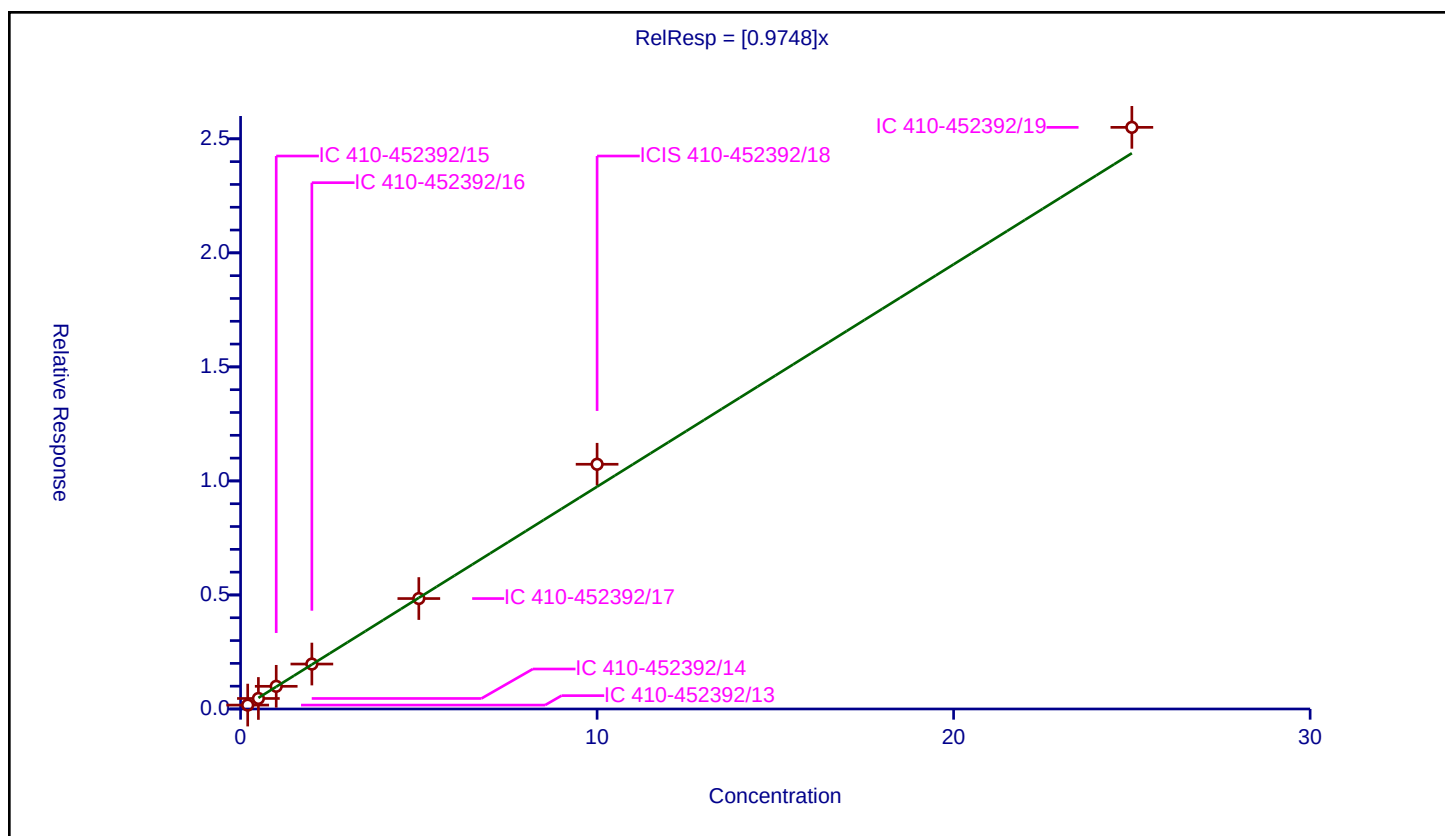
Curve Coefficients

Intercept: 0
Slope: 0.9748

Error Coefficients

Standard Error: 1140000
Relative Standard Error: 7.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.171805	10.0	910627.0	0.859024	Y
2	IC 410-452392/14	0.5	0.461367	10.0	920721.0	0.922733	Y
3	IC 410-452392/15	1.0	0.994553	10.0	928387.0	0.994553	Y
4	IC 410-452392/16	2.0	1.970896	10.0	919328.0	0.985448	Y
5	IC 410-452392/17	5.0	4.841894	10.0	948445.0	0.968379	Y
6	ICIS 410-452392/18	10.0	10.730367	10.0	965542.0	1.073037	Y
7	IC 410-452392/19	25.0	25.503304	10.0	993545.0	1.020132	Y



Calibration

/ Hexachlorobutadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

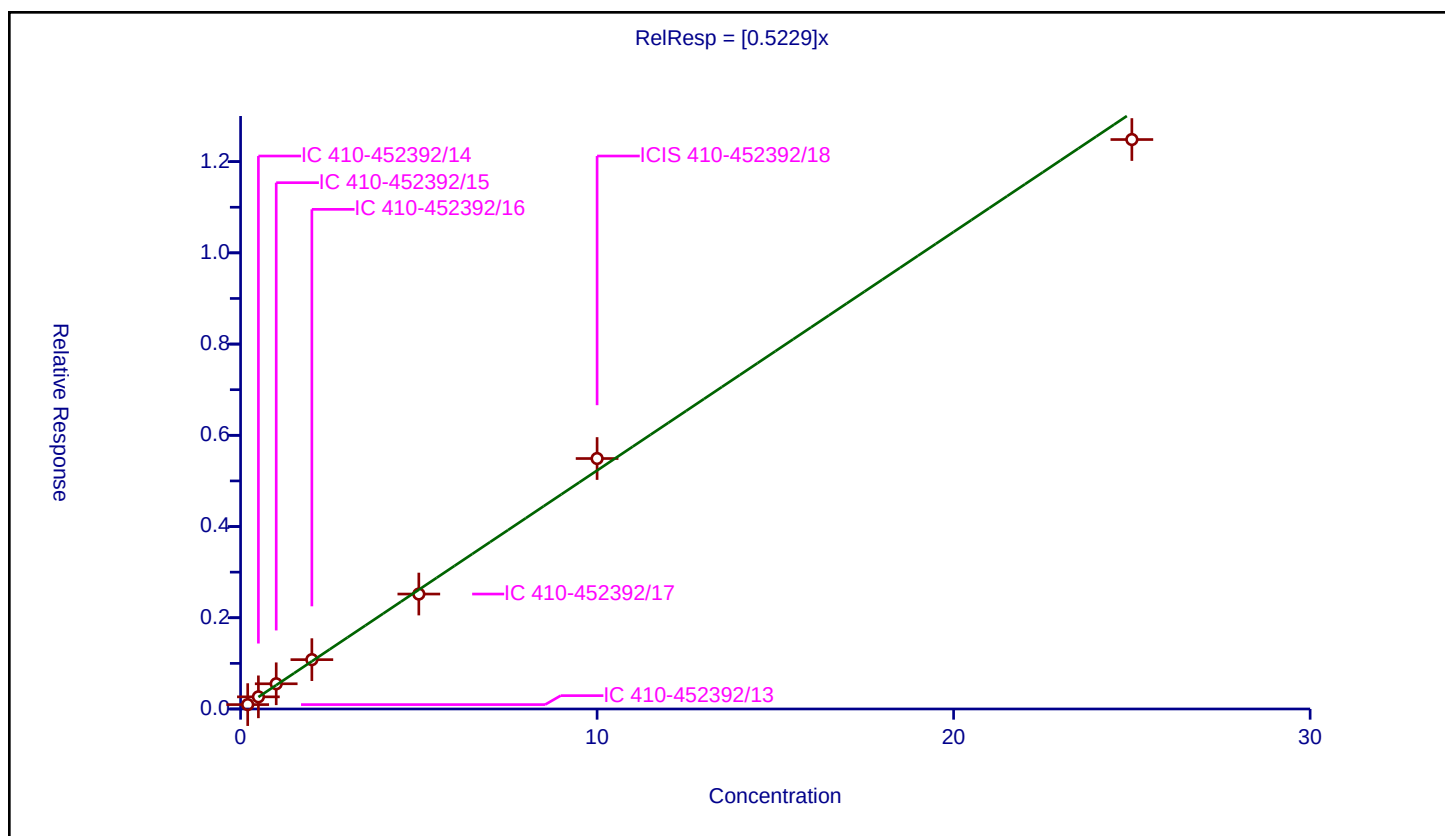
Curve Coefficients

Intercept: 0
Slope: 0.5229

Error Coefficients

Standard Error: 561000
Relative Standard Error: 5.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.096428	10.0	910627.0	0.48214	Y
2	IC 410-452392/14	0.5	0.266259	10.0	920721.0	0.532517	Y
3	IC 410-452392/15	1.0	0.552604	10.0	928387.0	0.552604	Y
4	IC 410-452392/16	2.0	1.081627	10.0	919328.0	0.540814	Y
5	IC 410-452392/17	5.0	2.519767	10.0	948445.0	0.503953	Y
6	ICIS 410-452392/18	10.0	5.491268	10.0	965542.0	0.549127	Y
7	IC 410-452392/19	25.0	12.484507	10.0	993545.0	0.49938	Y



Calibration

/ Naphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

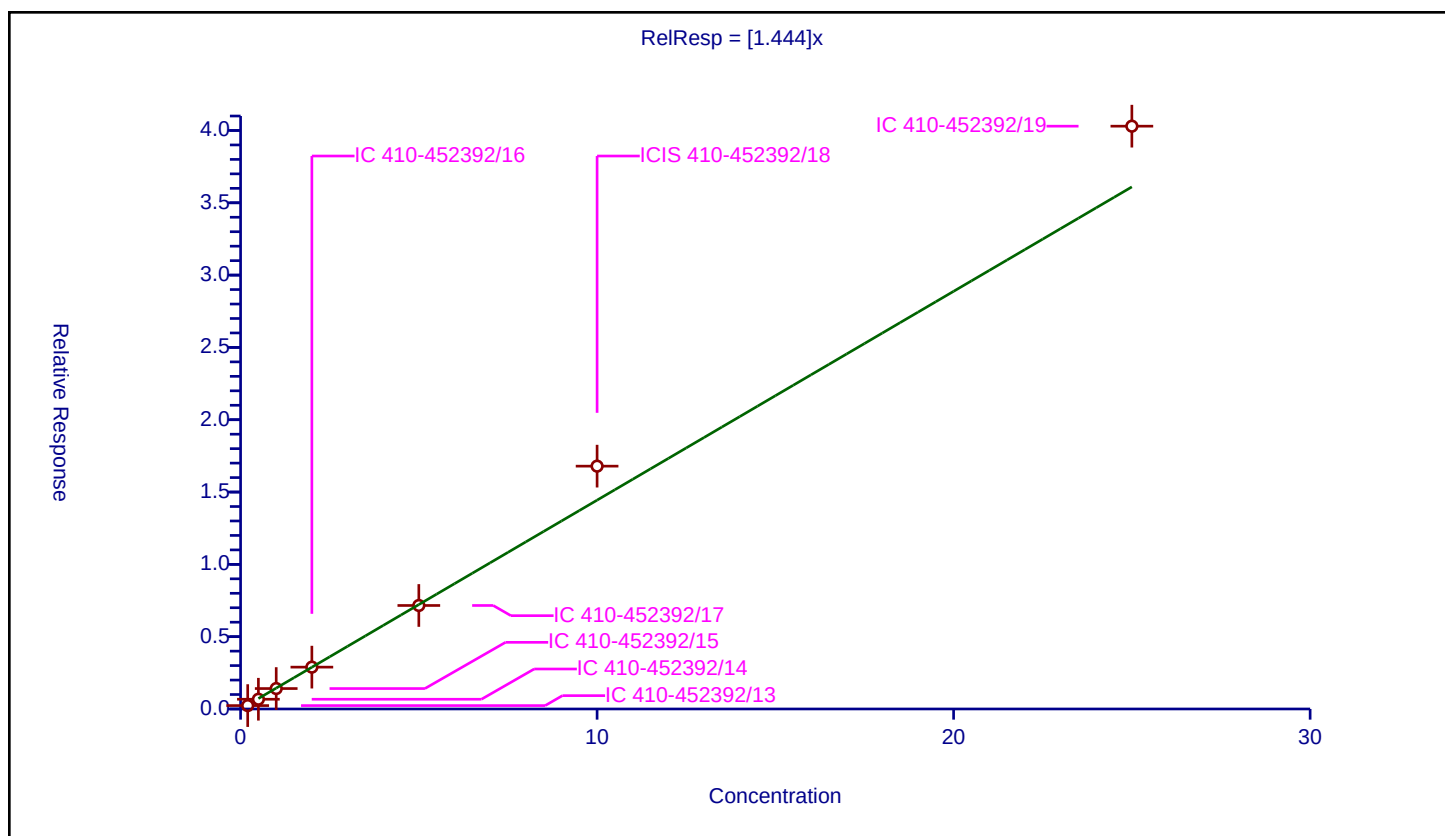
Curve Coefficients

Intercept: 0
Slope: 1.444

Error Coefficients

Standard Error: 1790000
Relative Standard Error: 11.5
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.235574	10.0	910627.0	1.17787	Y
2	IC 410-452392/14	0.5	0.674059	10.0	920721.0	1.348117	Y
3	IC 410-452392/15	1.0	1.412471	10.0	928387.0	1.412471	Y
4	IC 410-452392/16	2.0	2.893766	10.0	919328.0	1.446883	Y
5	IC 410-452392/17	5.0	7.156651	10.0	948445.0	1.43133	Y
6	ICIS 410-452392/18	10.0	16.791284	10.0	965542.0	1.679128	Y
7	IC 410-452392/19	25.0	40.297621	10.0	993545.0	1.611905	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

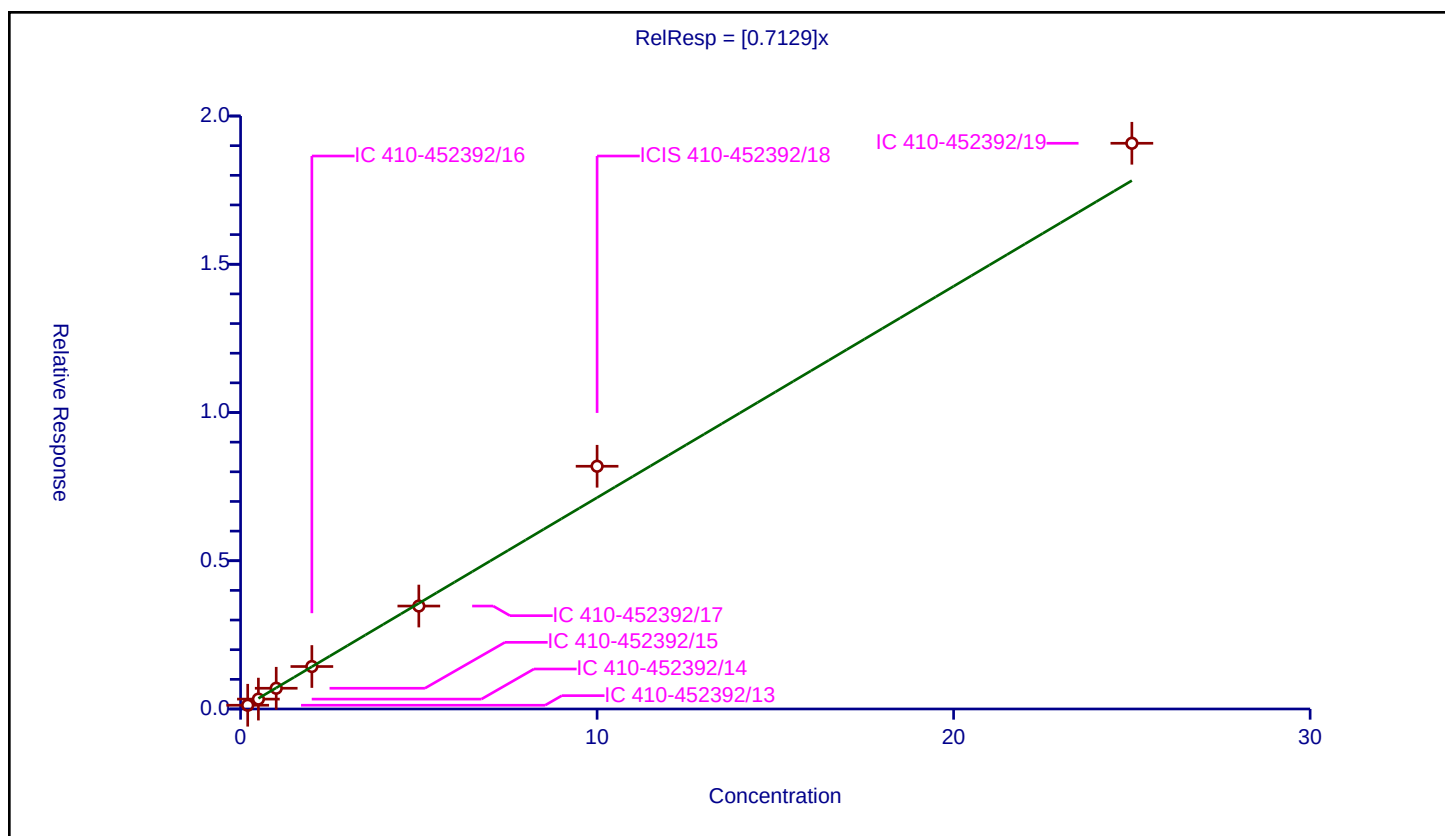
Curve Coefficients

Intercept: 0
 Slope: 0.7129

Error Coefficients

Standard Error: 851000
 Relative Standard Error: 8.7
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-452392/13	0.2	0.126276	10.0	910627.0	0.631378	Y
2	IC 410-452392/14	0.5	0.333369	10.0	920721.0	0.666738	Y
3	IC 410-452392/15	1.0	0.699331	10.0	928387.0	0.699331	Y
4	IC 410-452392/16	2.0	1.43247	10.0	919328.0	0.716235	Y
5	IC 410-452392/17	5.0	3.472632	10.0	948445.0	0.694526	Y
6	ICIS 410-452392/18	10.0	8.186697	10.0	965542.0	0.81867	Y
7	IC 410-452392/19	25.0	19.080917	10.0	993545.0	0.763237	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 431955
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 04:22 Calibration End Date: 10/17/2023 06:22 Calibration ID: 54848

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-431955/3	HO16X02.D
Level 2	IC 410-431955/4	HO16X03.D
Level 3	IC 410-431955/5	HO16X04.D
Level 4	IC 410-431955/6	HO16X05.D
Level 5	IC 410-431955/7	HO16X06.D
Level 6	IC 410-431955/8	HO16X07.D
Level 7	IC 410-431955/9	HO16X08.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	0.3903 0.4005	0.3812 0.3894	0.4077	0.4044	0.3636	Ave		0.391 0				3.9		20.0			
Methoxymethane	0.4277 0.2911	0.3459 0.2813	0.3068	0.3078	0.2958	Ave		0.322 4				15.8		20.0			
Acetonitrile	++++ 0.0071	++++ 0.0065	0.0070	0.0088	0.0080	Ave		0.007 5				12.4		20.0			
Vinyl acetate	0.2872 0.3177	0.2936 0.2331	0.2432	0.2871	0.2939	Ave		0.279 4				10.8		20.0			
Ethyl acetate	0.0996 0.1171	0.1070 0.1004	0.1073	0.1023	0.1070	Ave		0.105 8				5.6		20.0			
2-Chloroethyl vinyl ether	0.0770 0.0942	0.0778 0.0932	0.0848	0.0924	0.0869	Ave		0.086 6				8.3		20.0			
cis-1,4-Dichloro-2-butene	0.0822 0.0899	0.0811 0.0888	0.0809	0.0852	0.0840	Ave		0.084 6				4.3		20.0			
Cyclohexanone	0.2277 0.2402	0.2925 0.2669	0.2579	0.2271	0.2398	Ave		0.250 3				9.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

Analy Batch No.: 431955

SDG No.:

Instrument ID: 19094

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

Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 04:22

Calibration End Date: 10/17/2023 06:22

Calibration ID: 54848

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-431955/3	HO16X02.D
Level 2	IC 410-431955/4	HO16X03.D
Level 3	IC 410-431955/5	HO16X04.D
Level 4	IC 410-431955/6	HO16X05.D
Level 5	IC 410-431955/7	HO16X06.D
Level 6	IC 410-431955/8	HO16X07.D
Level 7	IC 410-431955/9	HO16X08.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	13612 690429	32504 1693144	70434	138984	312786	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methoxymethane	FB	Ave	14919 501744	29495 1223405	53016	105764	254403	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetonitrile	FB	Ave	+++++ 61078	+++++ 141016	6025	15126	34440	+++++ 50.0	+++++ 125	5.00	10.0	25.0
Vinyl acetate	FB	Ave	10016 547670	25032 1013527	42020	98648	252825	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl acetate	FB	Ave	3473 201819	9120 436711	18542	35170	92066	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloroethyl vinyl ether	FB	Ave	2686 162372	6633 405249	14647	31768	74772	0.200 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,4-Dichloro-2-butene	CBZd5	Ave	4284 234632	10491 588344	21013	44457	109600	0.400 20.0	1.000 50.0	2.00	4.00	10.00
Cyclohexanone	TBAd1 0	Ave	4036 116757	12456 330431	13039	24681	68571	10.00 500	25.0 1250	50.0	100.0	250

Curve Type Legend:

Ave = Average ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 431955
Environment Testing, LLC

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 04:22 Calibration End Date: 10/17/2023 06:22 Calibration ID: 54848

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-431955/3	HO16X02.D
Level 2	IC 410-431955/4	HO16X03.D
Level 3	IC 410-431955/5	HO16X04.D
Level 4	IC 410-431955/6	HO16X05.D
Level 5	IC 410-431955/7	HO16X06.D
Level 6	IC 410-431955/8	HO16X07.D
Level 7	IC 410-431955/9	HO16X08.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #						LVL 7					
Chlorodifluoromethane	-0.2 -0.4	-2.5	4.3	3.4	-7.0	2.4	50 30	30	30	30	30	30
Methoxymethane	32.7 -12.7	7.3	-4.8	-4.5	-8.2	-9.7	50 30	30	30	30	30	30
Acetonitrile	++++ -13.2	++++	-6.7	17.8	7.2	-5.2	30		50	30	30	30
Vinyl acetate	2.8 -16.6	5.1	-13.0	2.7	5.2	13.7	50 30	30	30	30	30	30
Ethyl acetate	-5.9 -5.1	1.1	1.4	-3.3	1.1	10.6	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-11.1 7.6	-10.2	-2.1	6.7	0.4	8.7	50 30	30	30	30	30	30
cis-1,4-Dichloro-2-butene	-2.9 5.0	-4.1	-4.3	0.7	-0.7	6.3	50 30	30	30	30	30	30
Cyclohexanone	-9.0 6.6	16.9	3.0	-9.3	-4.2	-4.0	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X02.D
 Lims ID: IC std1 0.2
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 17-Oct-2023 04:22:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0096799-003
 Operator ID: GAW91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub49
 Method: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 20-Oct-2023 13:24:26 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: DVW2

Date: 17-Oct-2023 11:02:46

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	1.831	0.006	81	5211	0.2000	0.1656	
3 Chlorodifluoromethane	51	1.886	1.879	0.007	96	13612	0.2000	0.1996	M
4 Dimethyl ether	45	1.959	1.946	0.013	100	14919	0.2000	0.2654	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.245	2.239	0.006	34	10646	0.2000	0.1922	
25 Acetonitrile	41	3.794	3.794	0.000	79	1735	1.00	1.33	M
* 28 t-Butyl alcohol-d10 (IS)	65	4.001	3.995	0.006	26	88635	50.0	50.0	
35 Vinyl acetate	43	5.086	5.056	0.030	73	10016	0.2000	0.2056	
45 Ethyl acetate	43	5.970	5.946	0.024	60	3473	0.2000	0.1882	
61 Isopropyl acetate	43	7.189	7.189	0.000	97	13496	0.2000	0.2766	
* 64 Fluorobenzene (IS)	96	7.513	7.513	0.000	99	1743969	10.0	10.0	
75 n-Propyl acetate	61	8.512	8.506	0.006	94	1549	0.2000	0.1836	M
78 2-Chloroethyl vinyl ether	63	9.049	9.049	0.000	80	2686	0.2000	0.1778	
110 n-Butyl acetate	43	10.463	10.463	0.000	98	8530	0.2000	0.2189	
* 113 Chlorobenzene-d5 (IS)	117	11.049	11.048	0.000	87	1303727	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.963	11.963	0.000	31	4284	0.4000	0.3885	M
125 Cyclohexanone	55	11.993	11.999	-0.006	89	4036	10.0	9.10	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	731529	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00029	Amount Added: 0.20	Units: uL
MSV_CCV_CYC_00007	Amount Added: 1.60	Units: uL
MSV_V_SMRV4_00063	Amount Added: 1.00	Units: uL
MSV_DME_00049	Amount Added: 0.20	Units: uL
MSV_LLcentISS_00010	Amount Added: 5.00	Units: uL

Report Date: 20-Oct-2023 13:24:28

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X02.D

Injection Date: 17-Oct-2023 04:22:30

Instrument ID: 19094

Operator ID: GAW91131

Lims ID: IC std1 0.2

Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

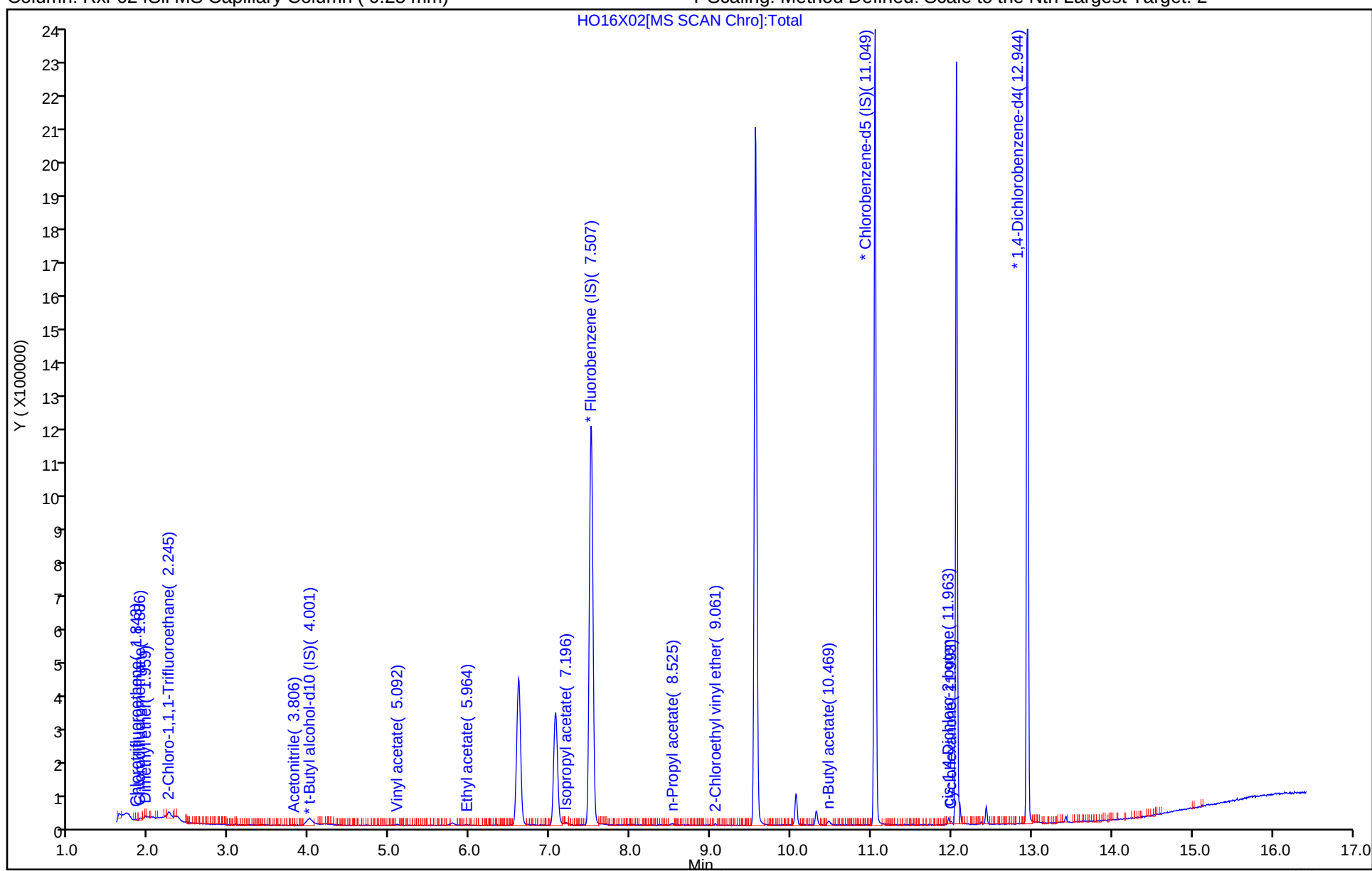
ALS Bottle#: 2

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



4/2/2024
4:19:02 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

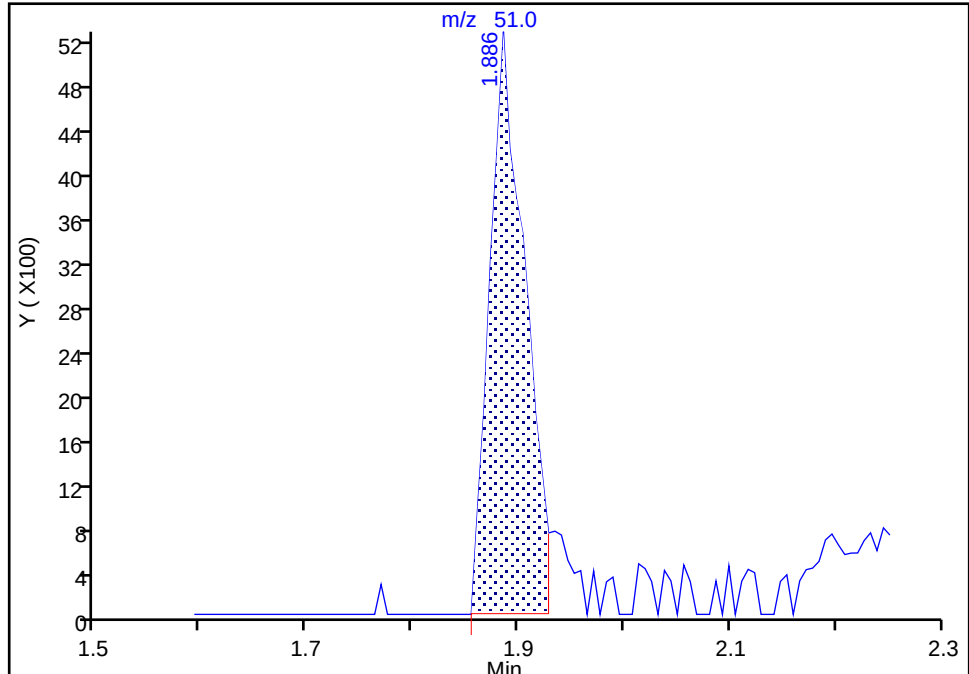
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X02.D
Injection Date: 17-Oct-2023 04:22:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: GAW91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

3 Chlorodifluoromethane, CAS: 75-45-6

Signal: 1

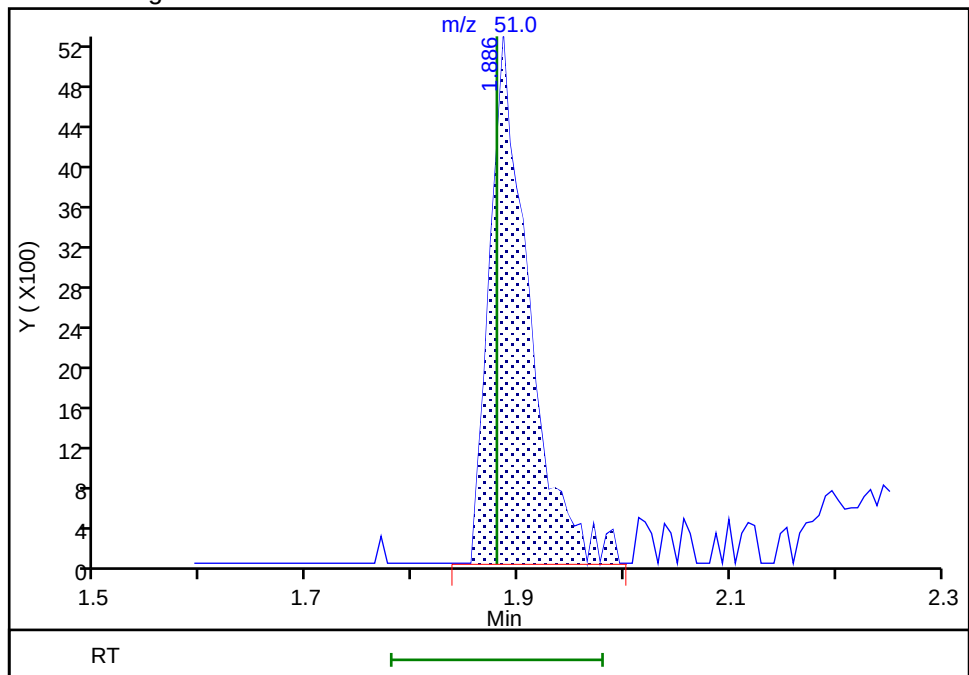
RT: 1.89
Area: 12241
Amount: 0.182122
Amount Units: ug/l

Processing Integration Results



RT: 1.89
Area: 13612
Amount: 0.199612
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 12:06:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

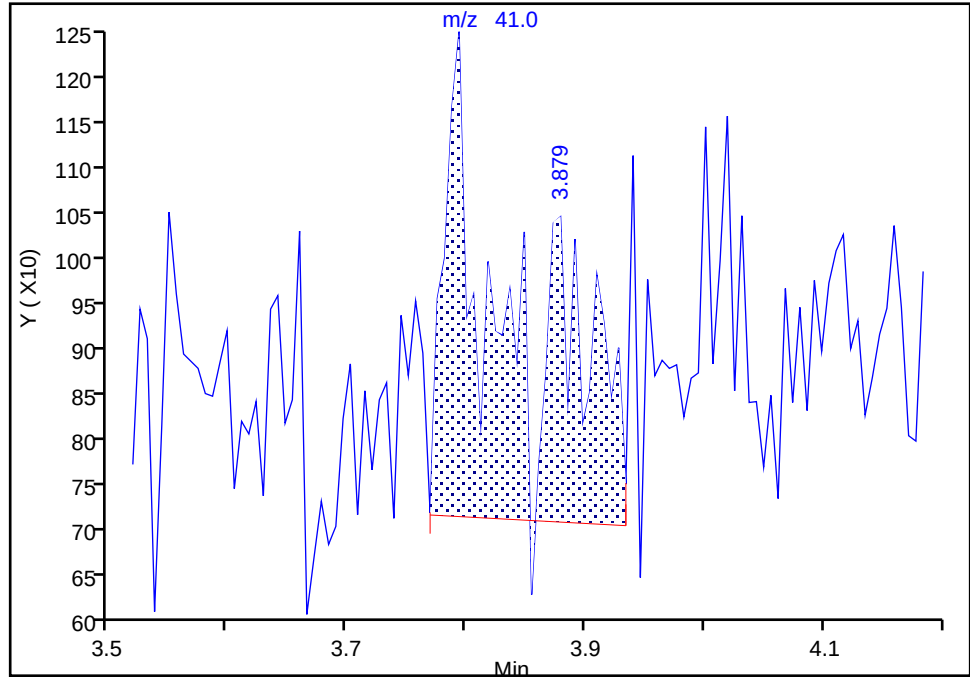
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X02.D
Injection Date: 17-Oct-2023 04:22:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: GAW91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Acetonitrile, CAS: 75-05-8

Signal: 1

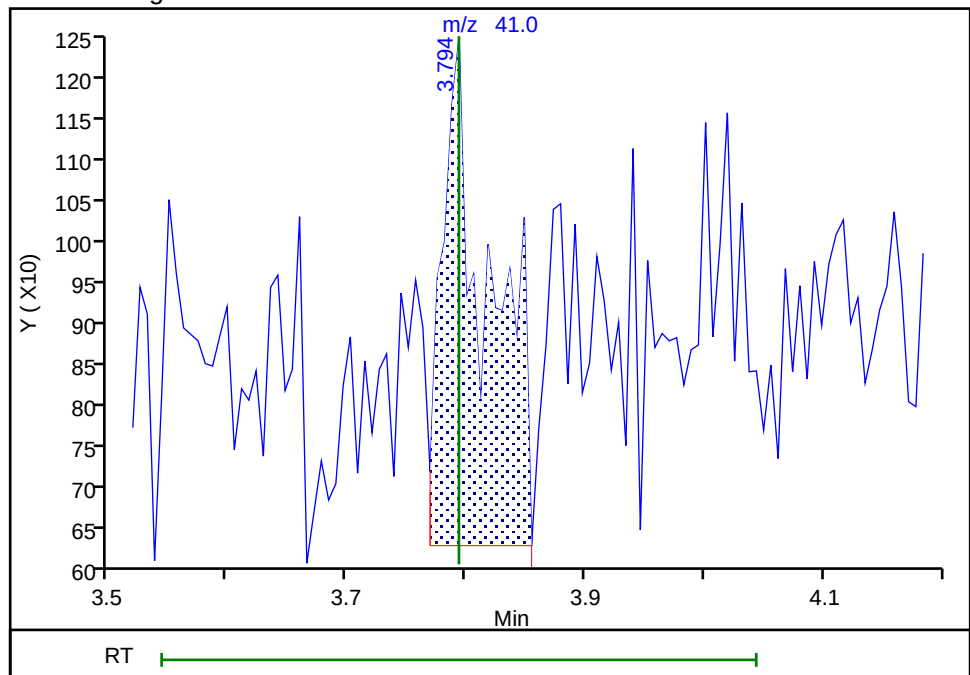
RT: 3.88
Area: 2168
Amount: 1.112534
Amount Units: ug/l

Processing Integration Results



RT: 3.79
Area: 1735
Amount: 1.331517
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 12:07:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

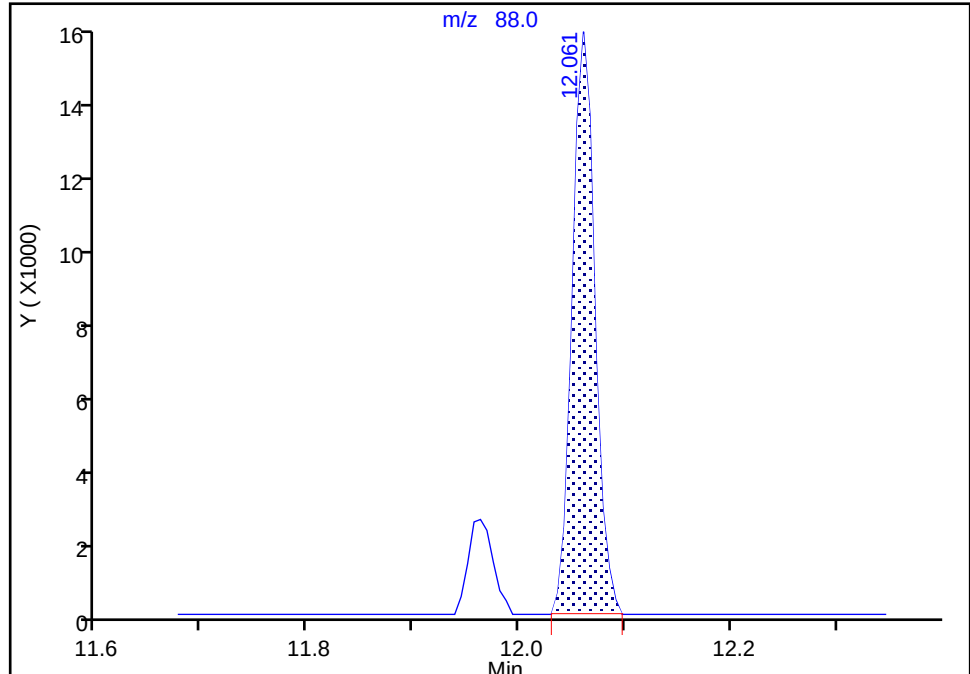
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Injection Date: 17-Oct-2023 04:22:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: GAW91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

124 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

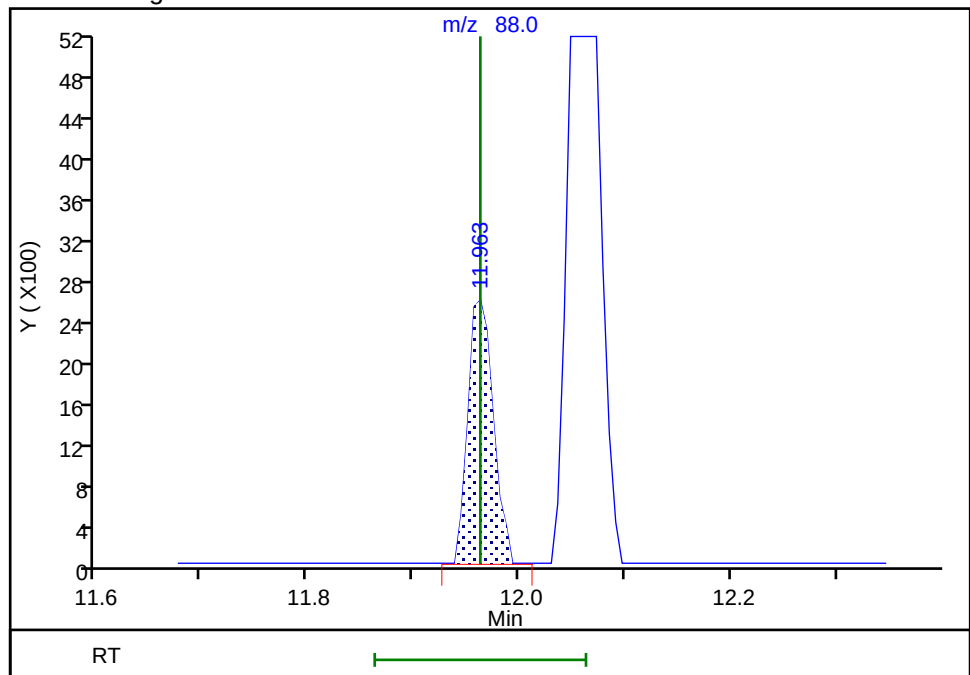
RT: 12.06
Area: 23587
Amount: 1.437149
Amount Units: ug/l

Processing Integration Results



RT: 11.96
Area: 4284
Amount: 0.388510
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 12:07:35 -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\20231016-96799.b\HO16X03.D
 Lims ID: IC std2 0.5
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 17-Oct-2023 04:42:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0096799-004
 Operator ID: GAW91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub49
 Method: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 20-Oct-2023 13:24:29 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: DVW2

Date: 17-Oct-2023 11:04:46

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	1.831	0.006	92	13457	0.5000	0.4374	
3 Chlorodifluoromethane	51	1.885	1.879	0.006	97	32504	0.5000	0.4875	
4 Dimethyl ether	45	1.953	1.946	0.007	100	29495	0.5000	0.5366	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.245	2.239	0.006	35	25626	0.5000	0.4731	
25 Acetonitrile	41	3.818	3.794	0.024	80	6036	2.50	4.74	M
* 28 t-Butyl alcohol-d10 (IS)	65	4.001	3.995	0.006	26	85167	50.0	50.0	
35 Vinyl acetate	43	5.068	5.056	0.012	96	25032	0.5000	0.5254	
45 Ethyl acetate	43	5.958	5.946	0.012	96	9120	0.5000	0.5054	
61 Isopropyl acetate	43	7.195	7.189	0.006	98	23450	0.5000	0.4915	
* 64 Fluorobenzene (IS)	96	7.512	7.513	-0.001	98	1705254	10.0	10.0	
75 n-Propyl acetate	61	8.518	8.506	0.012	98	3659	0.5000	0.4434	
78 2-Chloroethyl vinyl ether	63	9.055	9.049	0.006	95	6633	0.5000	0.4491	
110 n-Butyl acetate	43	10.469	10.463	0.006	97	19365	0.5000	0.5010	
* 113 Chlorobenzene-d5 (IS)	117	11.048	11.048	0.000	87	1293253	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.963	11.963	0.000	27	10491	1.00	0.9591	M
125 Cyclohexanone	55	11.999	11.999	0.000	91	12456	25.0	29.2	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	96	722078	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00029	Amount Added: 0.50	Units: uL
MSV_CCV_CYC_00007	Amount Added: 4.00	Units: uL
MSV_V_SMRV4_00063	Amount Added: 2.50	Units: uL
MSV_DME_00049	Amount Added: 0.50	Units: uL
MSV_LLcentISS_00010	Amount Added: 5.00	Units: uL

Report Date: 20-Oct-2023 13:24:31

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X03.D

Injection Date: 17-Oct-2023 04:42:30

Instrument ID: 19094

Operator ID: GAW91131

Lims ID: IC std2 0.5

Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

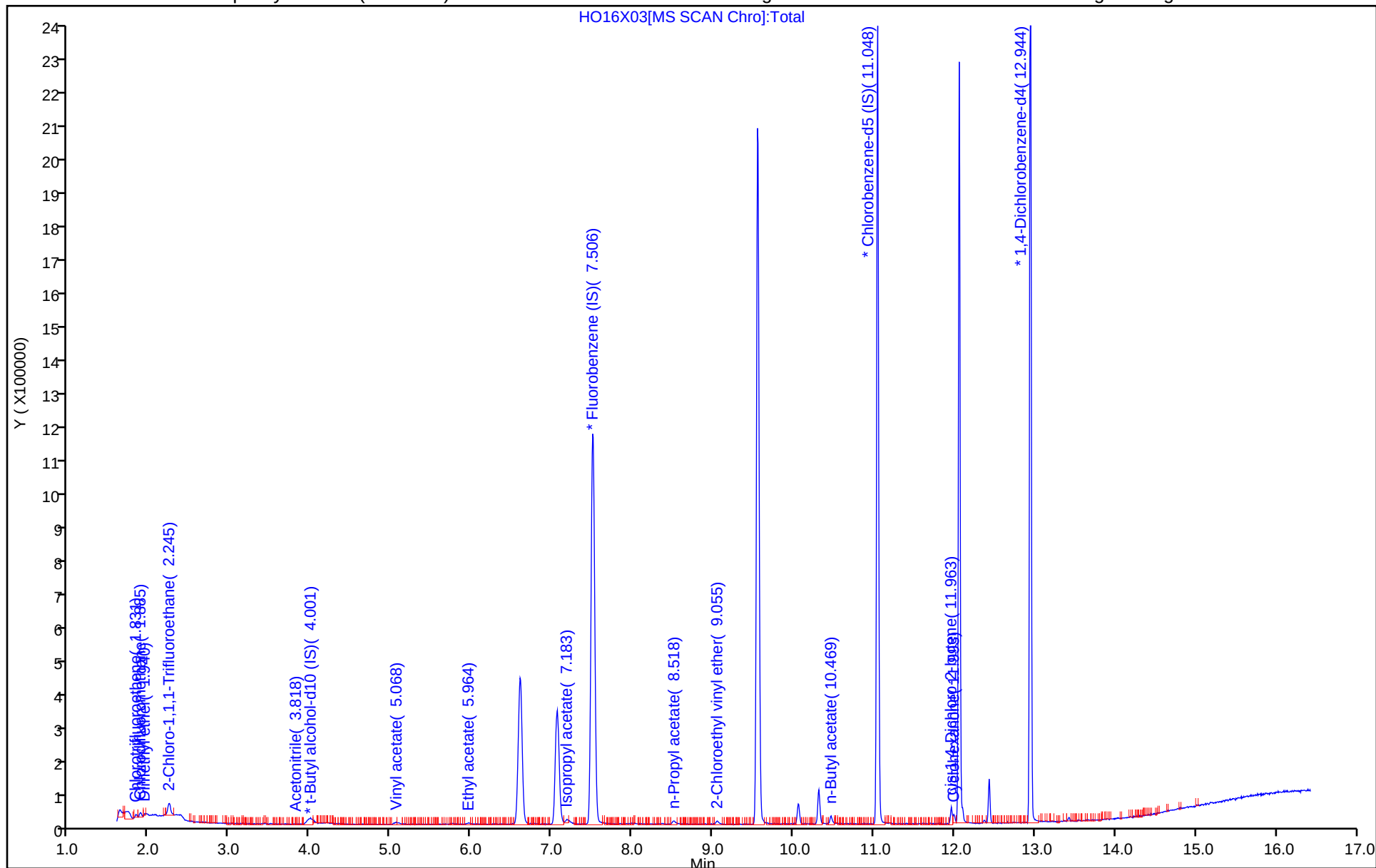
ALS Bottle#: 3

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



Eurofins Lancaster Laboratories Environment Testing, LLC

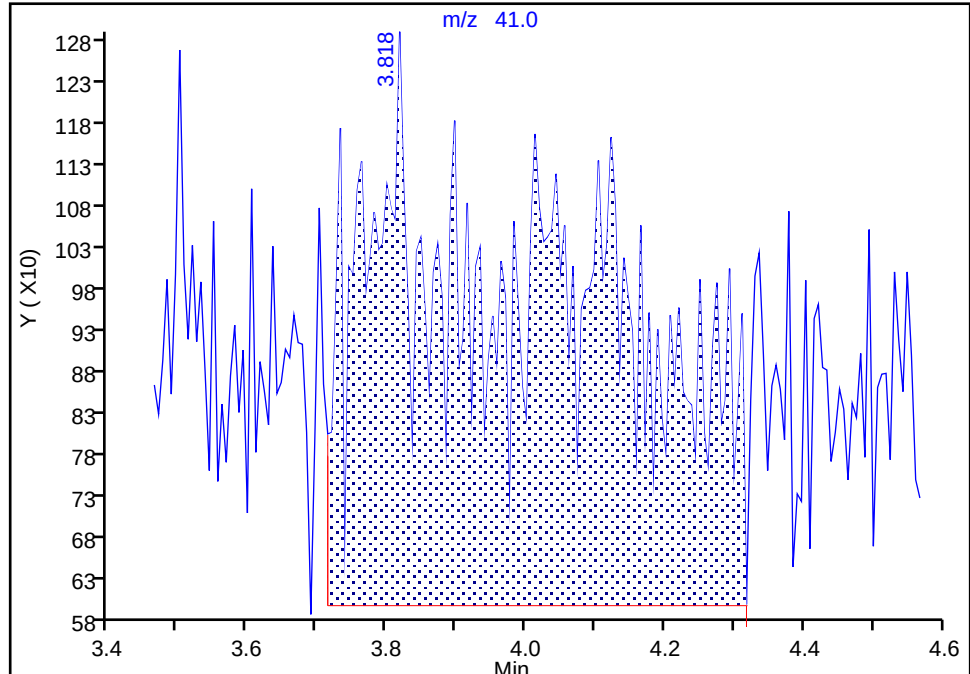
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X03.D
Injection Date: 17-Oct-2023 04:42:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: GAW91131 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Acetonitrile, CAS: 75-05-8

Signal: 1

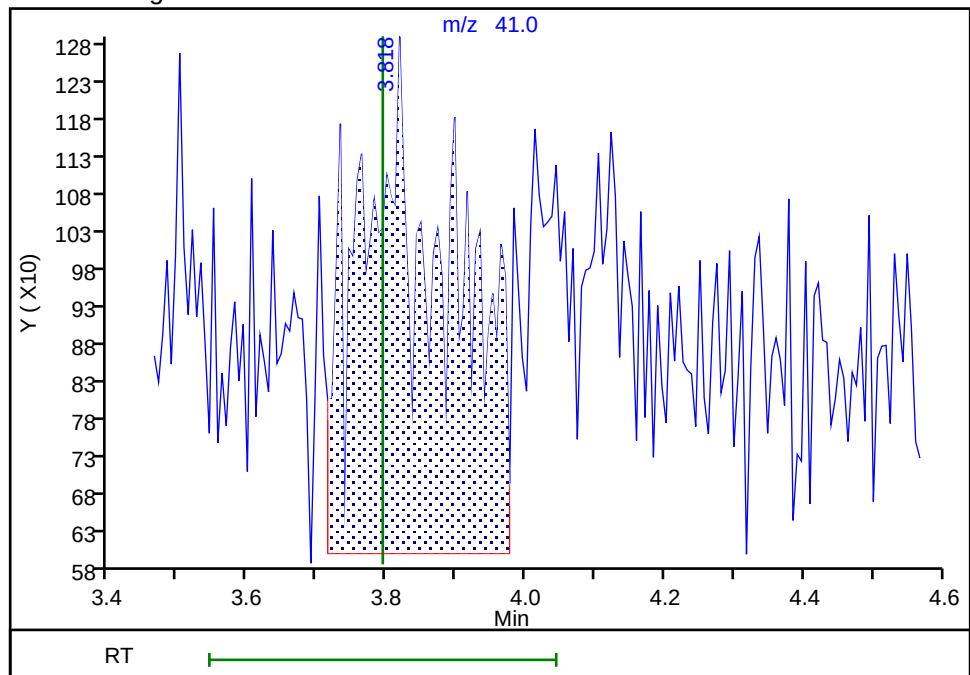
RT: 3.82
Area: 12812
Amount: 6.944320
Amount Units: ug/l

Processing Integration Results



RT: 3.82
Area: 6036
Amount: 4.737468
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 12:07:58 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

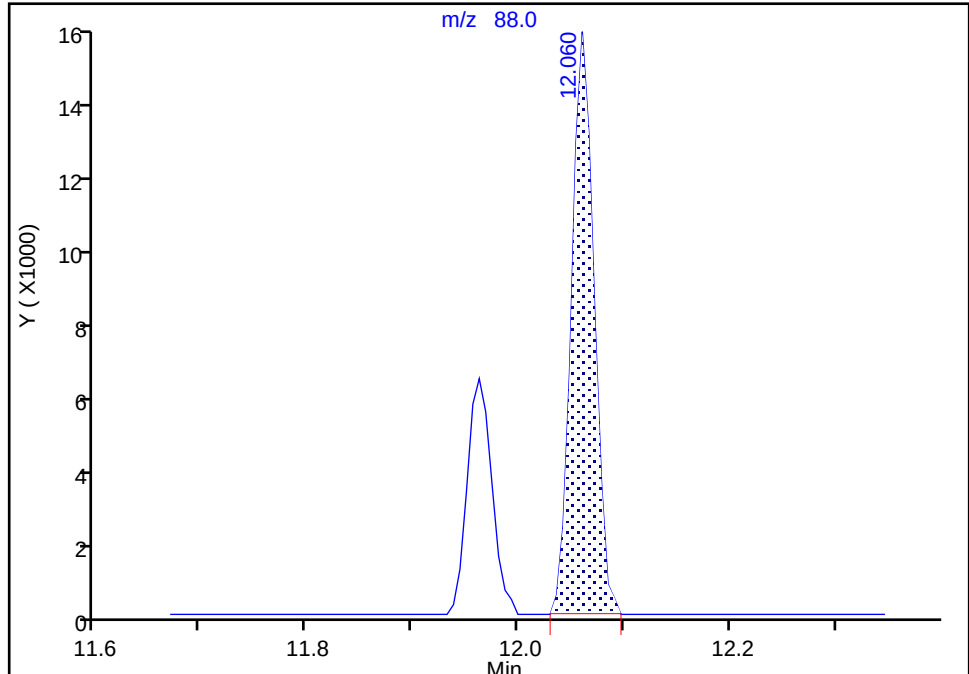
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X03.D
Injection Date: 17-Oct-2023 04:42:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: GAW91131 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

124 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

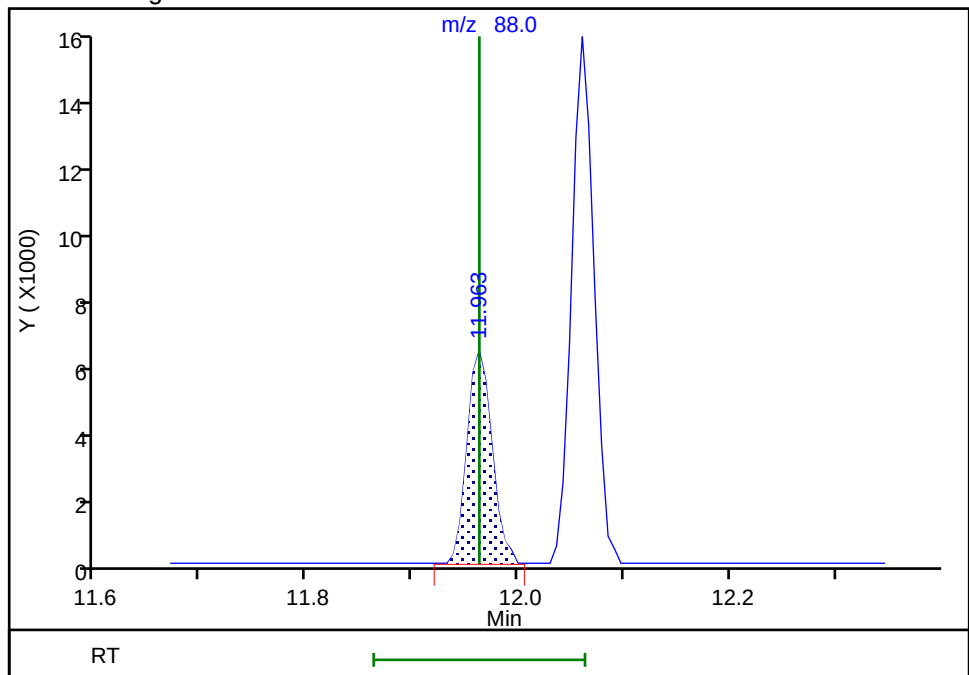
RT: 12.06
Area: 23470
Amount: 2.116260
Amount Units: ug/l

Processing Integration Results



RT: 11.96
Area: 10491
Amount: 0.959120
Amount Units: ug/l

Manual Integration Results



Reviewer: UCB5, 20-Oct-2023 12:13:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Wrong peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X04.D
 Lims ID: IC std3 1
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 17-Oct-2023 05:02:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0096799-005
 Operator ID: GAW91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub49
 Method: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 20-Oct-2023 13:24:33 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: DVW2

Date: 17-Oct-2023 11:02:03

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	1.831	0.006	92	34665	1.00	1.11	
3 Chlorodifluoromethane	51	1.879	1.879	0.000	97	70434	1.00	1.04	
4 Dimethyl ether	45	1.947	1.946	0.000	100	53016	1.00	0.9519	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.233	2.239	-0.006	36	57244	1.00	1.04	
25 Acetonitrile	41	3.800	3.794	0.006	73	6025	5.00	4.67	M
* 28 t-Butyl alcohol-d10 (IS)	65	4.007	3.995	0.012	22	50562	50.0	50.0	
35 Vinyl acetate	43	5.062	5.056	0.006	96	42020	1.00	0.8705	
45 Ethyl acetate	43	5.964	5.946	0.018	97	18542	1.00	1.01	
61 Isopropyl acetate	43	7.189	7.189	0.000	98	44130	1.00	0.9128	
* 64 Fluorobenzene (IS)	96	7.506	7.513	-0.007	99	1727798	10.0	10.0	
75 n-Propyl acetate	61	8.506	8.506	0.000	98	8390	1.00	1.00	M
78 2-Chloroethyl vinyl ether	63	9.049	9.049	0.000	94	14647	1.00	0.9787	
110 n-Butyl acetate	43	10.469	10.463	0.006	98	36795	1.00	0.9480	
* 113 Chlorobenzene-d5 (IS)	117	11.048	11.048	0.000	87	1298673	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.963	11.963	0.000	31	21013	2.00	1.91	a
125 Cyclohexanone	55	11.999	11.999	0.000	92	13039	50.0	51.5	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	719528	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00029	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00007	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00063	Amount Added: 5.00	Units: uL
MSV_DME_00049	Amount Added: 1.00	Units: uL
MSV_LLcentISS_00010	Amount Added: 5.00	Units: uL

Report Date: 20-Oct-2023 13:24:33

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X04.D

Injection Date: 17-Oct-2023 05:02:30

Instrument ID: 19094

Operator ID: GAW91131

Lims ID: IC std3 1

Worklist Smp#: 5

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

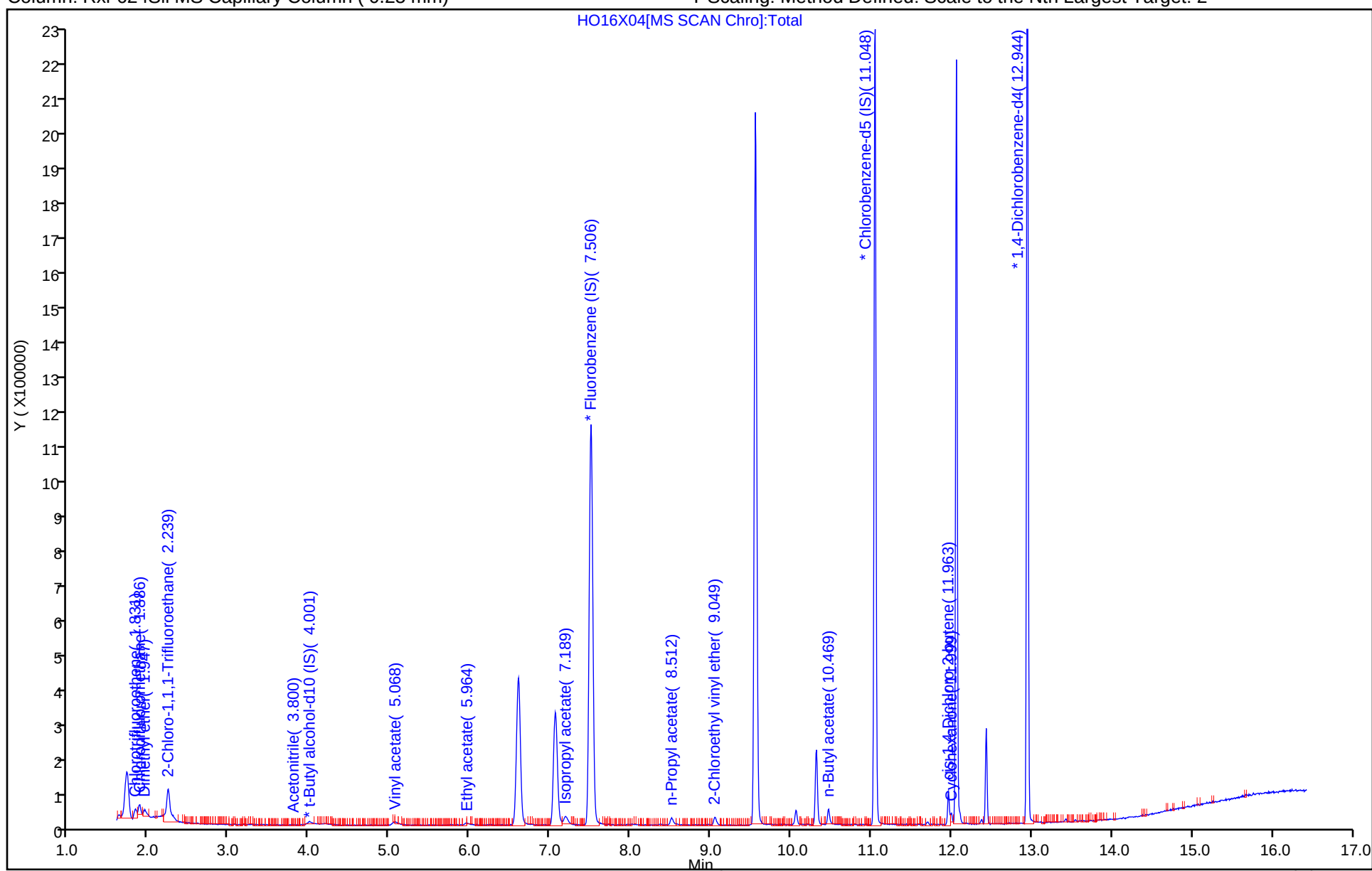
ALS Bottle#: 4

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



Eurofins Lancaster Laboratories Environment Testing, LLC

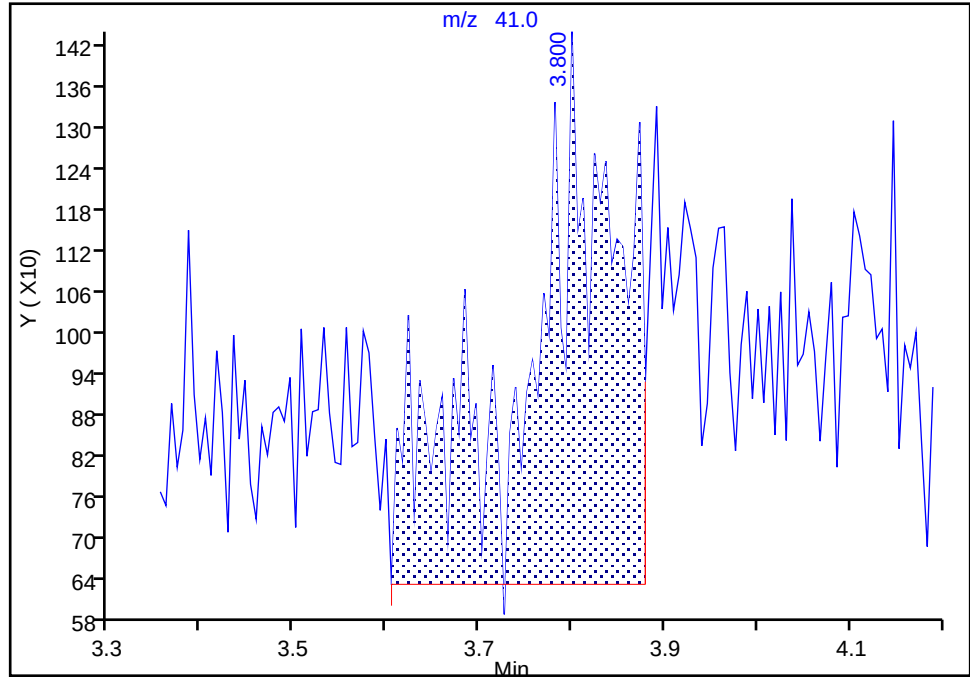
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X04.D
Injection Date: 17-Oct-2023 05:02:30 Instrument ID: 19094
Lims ID: IC std3 1
Client ID:
Operator ID: GAW91131 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Acetonitrile, CAS: 75-05-8

Signal: 1

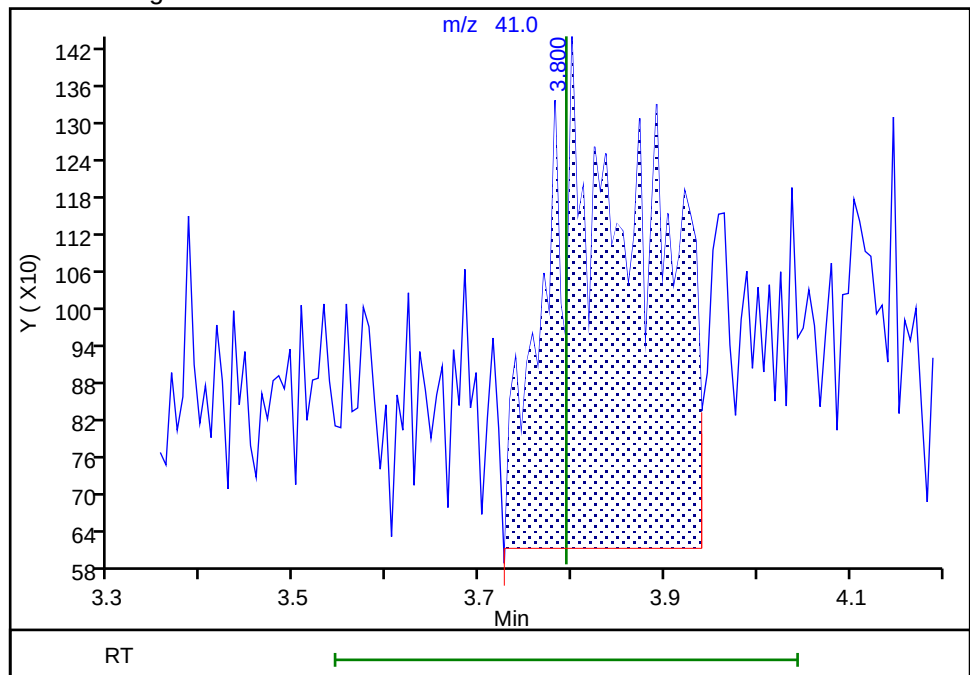
RT: 3.80
Area: 5588
Amount: 3.783260
Amount Units: ug/l

Processing Integration Results



RT: 3.80
Area: 6025
Amount: 4.667133
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 12:08:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

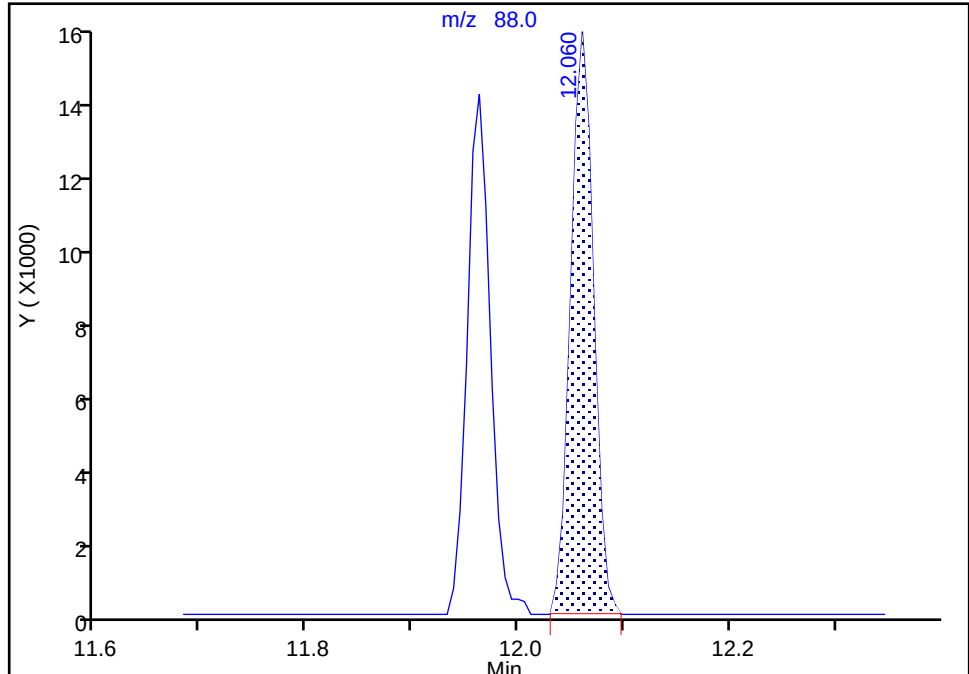
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Injection Date: 17-Oct-2023 05:02:30 Instrument ID: 19094
Lims ID: IC std3 1
Client ID:
Operator ID: GAW91131 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

124 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

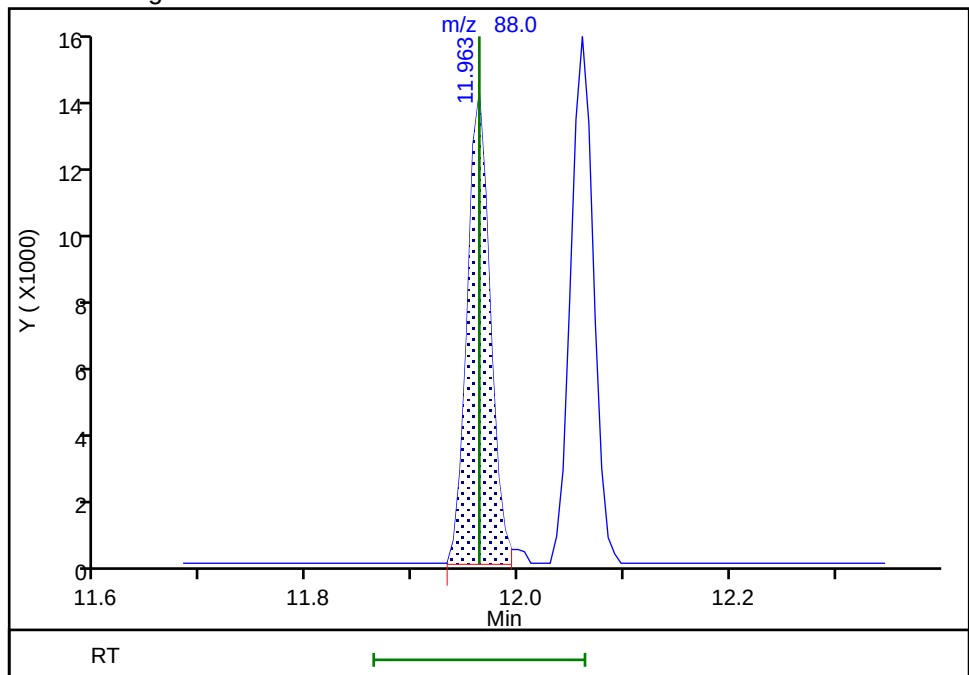
RT: 12.06
Area: 23415
Amount: 2.469582
Amount Units: ug/l

Processing Integration Results



RT: 11.96
Area: 21013
Amount: 1.913056
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 12:09:05 -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\20231016-96799.b\HO16X05.D
 Lims ID: IC std4 2
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 17-Oct-2023 05:22:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0096799-006
 Operator ID: GAW91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub49
 Method: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 20-Oct-2023 13:24:36 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: DVW2

Date: 17-Oct-2023 11:01:54

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	1.843	0.000	95	69114	2.00	2.23	
3 Chlorodifluoromethane	51	1.892	1.892	0.000	97	138984	2.00	2.07	
4 Dimethyl ether	45	1.959	1.959	0.000	99	105764	2.00	1.91	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.245	2.245	0.000	47	115202	2.00	2.11	
25 Acetonitrile	41	3.830	3.830	0.000	25	15126	10.0	11.8	M
* 28 t-Butyl alcohol-d10 (IS)	65	4.025	4.025	0.000	25	54332	50.0	50.0	
35 Vinyl acetate	43	5.068	5.068	0.000	98	98648	2.00	2.05	
45 Ethyl acetate	43	5.964	5.964	0.000	99	35170	2.00	1.93	
61 Isopropyl acetate	43	7.195	7.195	0.000	98	85303	2.00	1.77	
* 64 Fluorobenzene (IS)	96	7.512	7.512	0.000	98	1718207	10.0	10.0	
75 n-Propyl acetate	61	8.512	8.512	0.000	99	16035	2.00	1.93	
78 2-Chloroethyl vinyl ether	63	9.055	9.055	0.000	93	31768	2.00	2.13	
110 n-Butyl acetate	43	10.469	10.469	0.000	98	73642	2.00	1.89	
* 113 Chlorobenzene-d5 (IS)	117	11.048	11.048	0.000	87	1304716	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.963	11.963	0.000	31	44457	4.00	4.03	a
125 Cyclohexanone	55	11.999	11.999	0.000	93	24681	100.0	90.7	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	722428	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00029	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00007	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00063	Amount Added: 5.00	Units: uL
MSV_DME_00049	Amount Added: 1.00	Units: uL
MSV_LLcentISS_00010	Amount Added: 5.00	Units: uL

Report Date: 20-Oct-2023 13:24:37

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X05.D

Injection Date: 17-Oct-2023 05:22:30

Instrument ID: 19094

Operator ID: GAW91131

Lims ID: IC std4 2

Worklist Smp#: 6

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

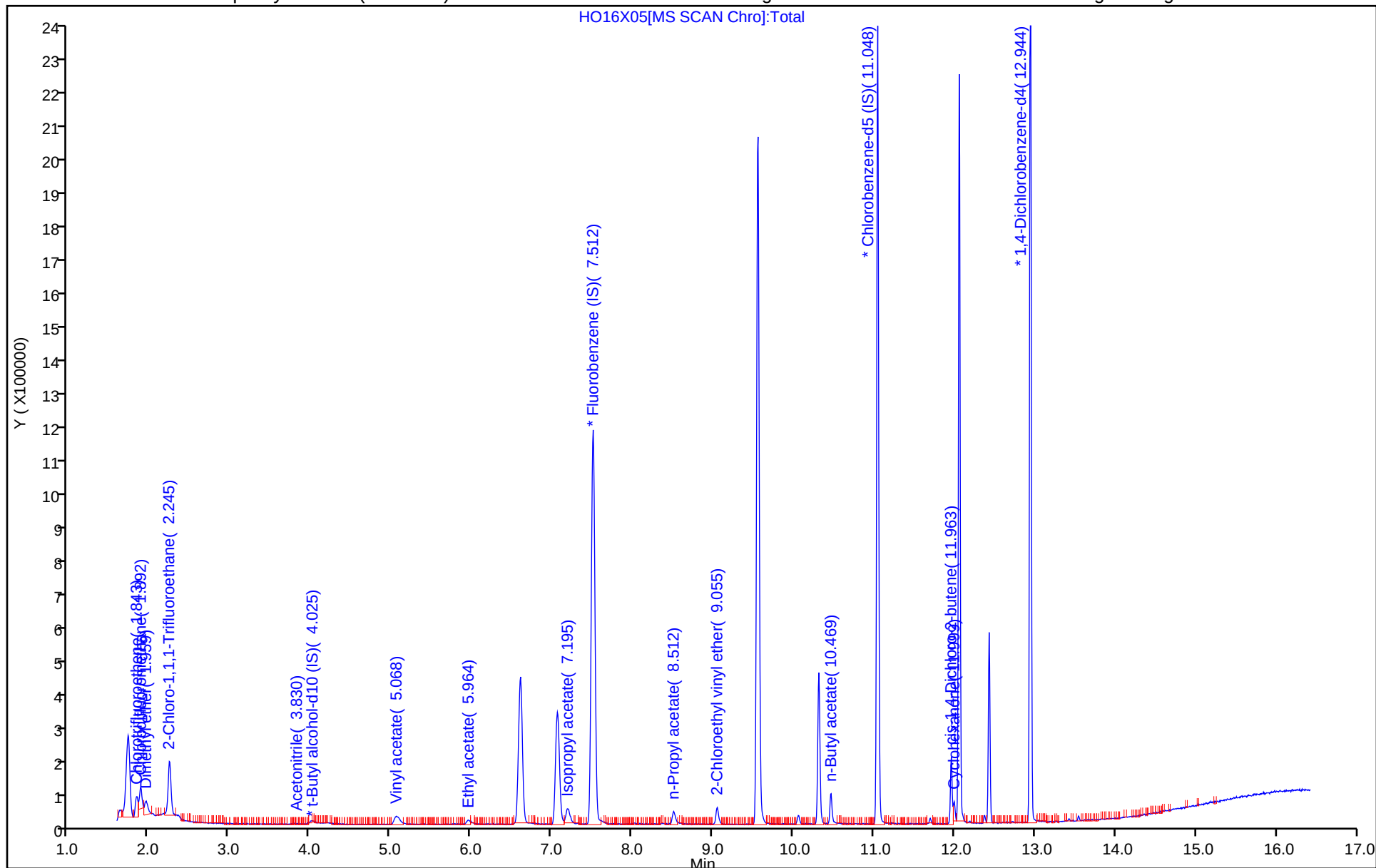
ALS Bottle#: 5

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



Eurofins Lancaster Laboratories Environment Testing, LLC

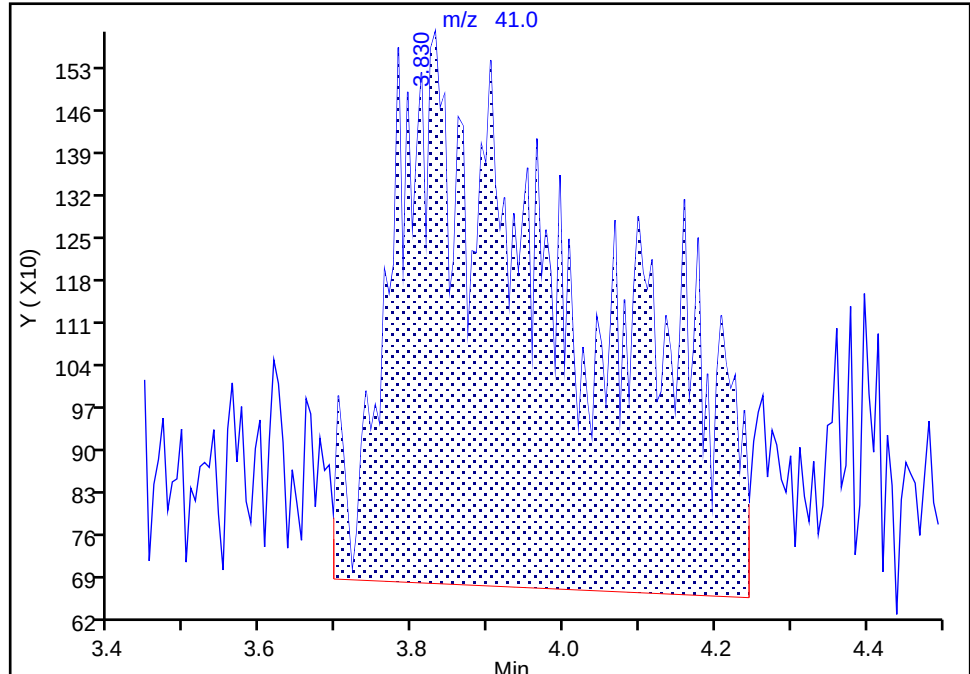
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X05.D
Injection Date: 17-Oct-2023 05:22:30 Instrument ID: 19094
Lims ID: IC std4 2
Client ID:
Operator ID: GAW91131 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Acetonitrile, CAS: 75-05-8

Signal: 1

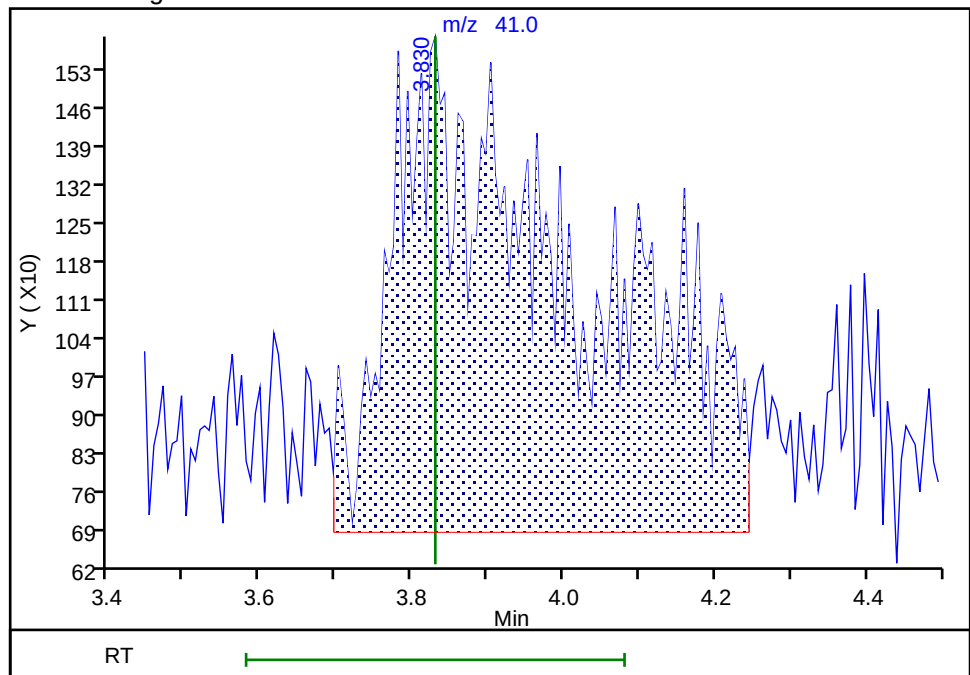
RT: 3.83
Area: 15526
Amount: 10.481684
Amount Units: ug/l

Processing Integration Results



RT: 3.83
Area: 15126
Amount: 11.782426
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 12:09:24 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

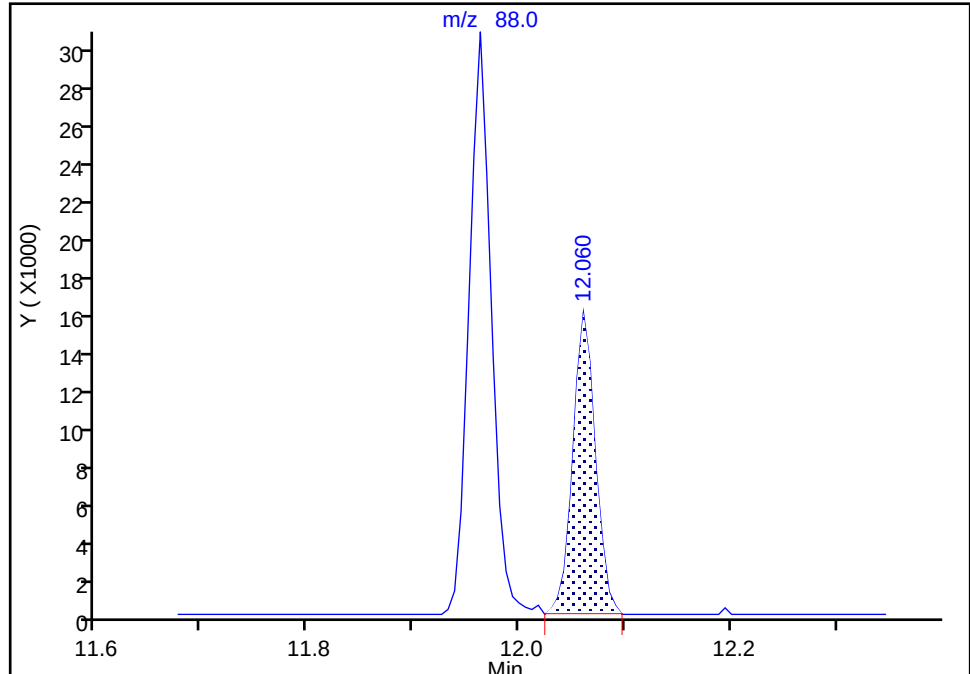
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X05.D
Injection Date: 17-Oct-2023 05:22:30 Instrument ID: 19094
Lims ID: IC std4 2
Client ID:
Operator ID: GAW91131 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

124 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

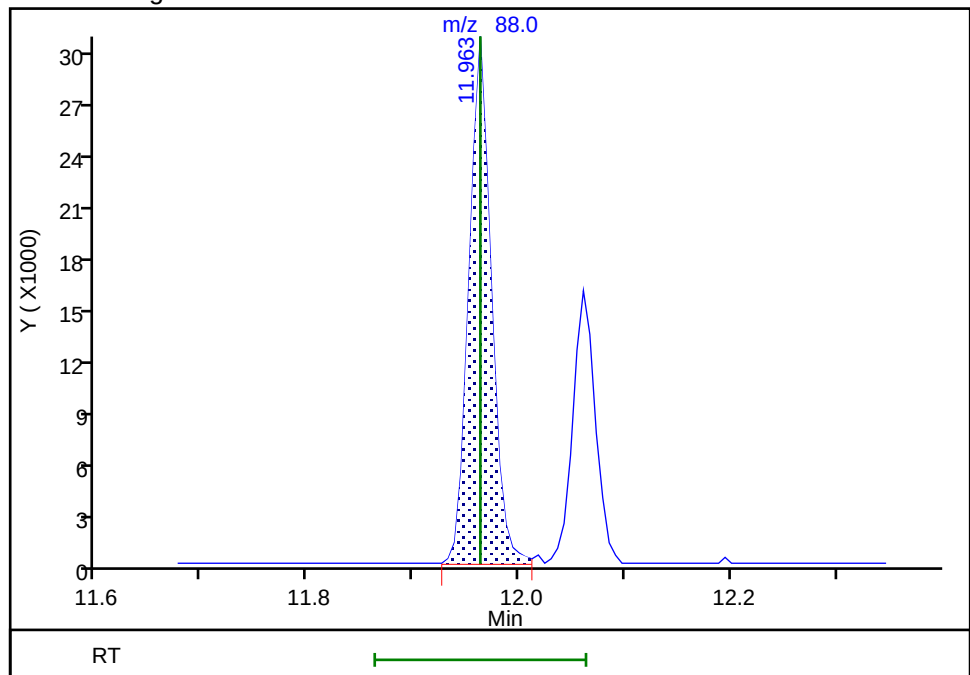
RT: 12.06
Area: 23306
Amount: 2.491793
Amount Units: ug/l

Processing Integration Results



RT: 11.96
Area: 44457
Amount: 4.028688
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 12:09:35 -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\20231016-96799.b\HO16X06.D
 Lims ID: IC std5 5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 17-Oct-2023 05:42:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0096799-007
 Operator ID: GAW91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub49
 Method: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 20-Oct-2023 13:24:39 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: DVW2

Date: 17-Oct-2023 10:58:06

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	1.843	-0.006	95	146275	5.00	4.71	
3 Chlorodifluoromethane	51	1.886	1.892	-0.006	97	312786	5.00	4.65	
4 Dimethyl ether	45	1.953	1.959	-0.006	99	254403	5.00	4.59	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.245	2.245	0.000	35	260587	5.00	4.77	
25 Acetonitrile	41	3.788	3.830	-0.042	19	34440	25.0	26.8	M
* 28 t-Butyl alcohol-d10 (IS)	65	4.013	4.025	-0.012	26	57201	50.0	50.0	
35 Vinyl acetate	43	5.056	5.068	-0.012	98	252825	5.00	5.26	
45 Ethyl acetate	43	5.958	5.964	-0.006	99	92066	5.00	5.06	
61 Isopropyl acetate	43	7.196	7.195	0.001	98	229516	5.00	4.77	
* 64 Fluorobenzene (IS)	96	7.507	7.512	-0.006	98	1720288	10.0	10.0	
75 n-Propyl acetate	61	8.506	8.512	-0.006	99	43661	5.00	5.24	
78 2-Chloroethyl vinyl ether	63	9.049	9.055	-0.006	94	74772	5.00	5.02	
110 n-Butyl acetate	43	10.463	10.469	-0.006	97	194010	5.00	4.97	
* 113 Chlorobenzene-d5 (IS)	117	11.049	11.048	0.000	87	1305006	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.963	11.963	0.000	31	109600	10.0	9.93	a
125 Cyclohexanone	55	12.000	11.999	0.001	92	68571	250.0	239.5	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	725450	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00029	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00007	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00063	Amount Added: 5.00	Units: uL
MSV_DME_00049	Amount Added: 1.00	Units: uL
MSV_LLcentISS_00010	Amount Added: 5.00	Units: uL

Report Date: 20-Oct-2023 13:24:40

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X06.D

Injection Date: 17-Oct-2023 05:42:30

Instrument ID: 19094

Operator ID: GAW91131

Lims ID: IC std5 5

Worklist Smp#: 7

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

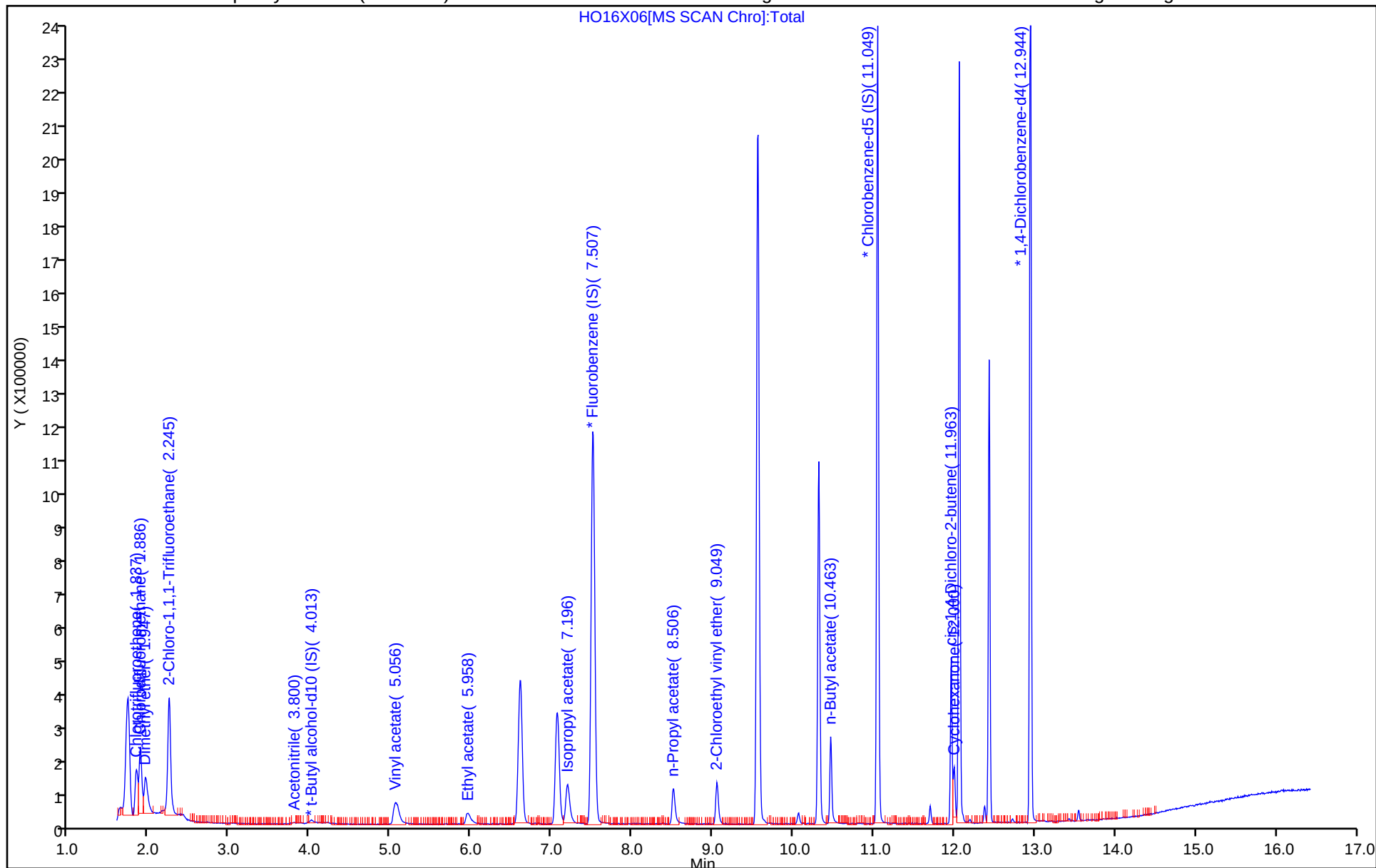
ALS Bottle#: 6

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



4/2/2024
4:19:02 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

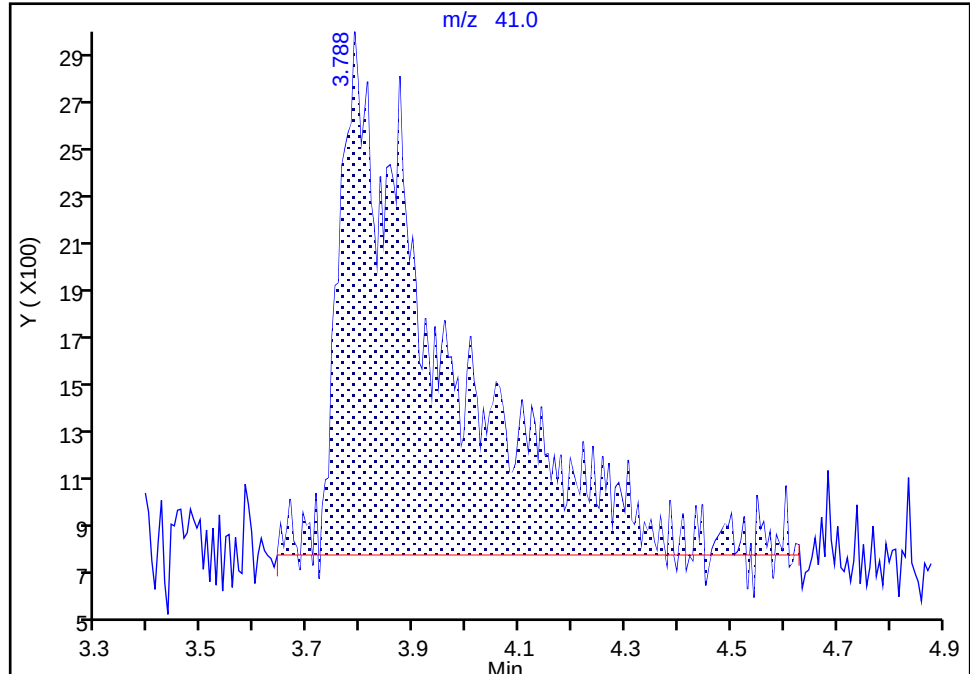
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X06.D
Injection Date: 17-Oct-2023 05:42:30 Instrument ID: 19094
Lims ID: IC std5 5
Client ID:
Operator ID: GAW91131 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Acetonitrile, CAS: 75-05-8

Signal: 1

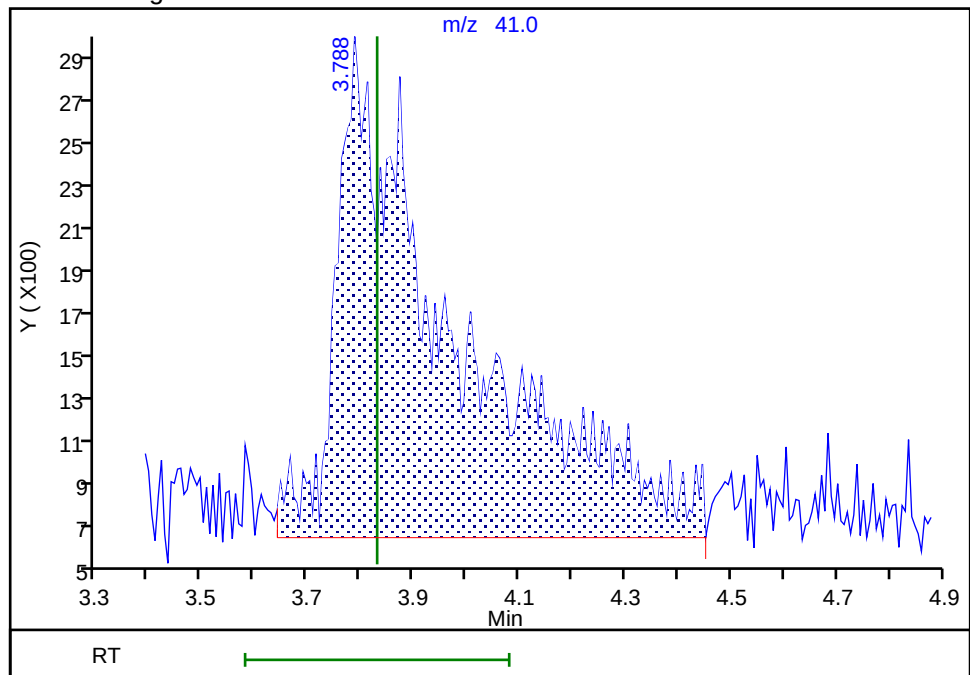
RT: 3.79
Area: 28627
Amount: 19.377614
Amount Units: ug/l

Processing Integration Results



RT: 3.79
Area: 34440
Amount: 26.794650
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 12:10:14 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

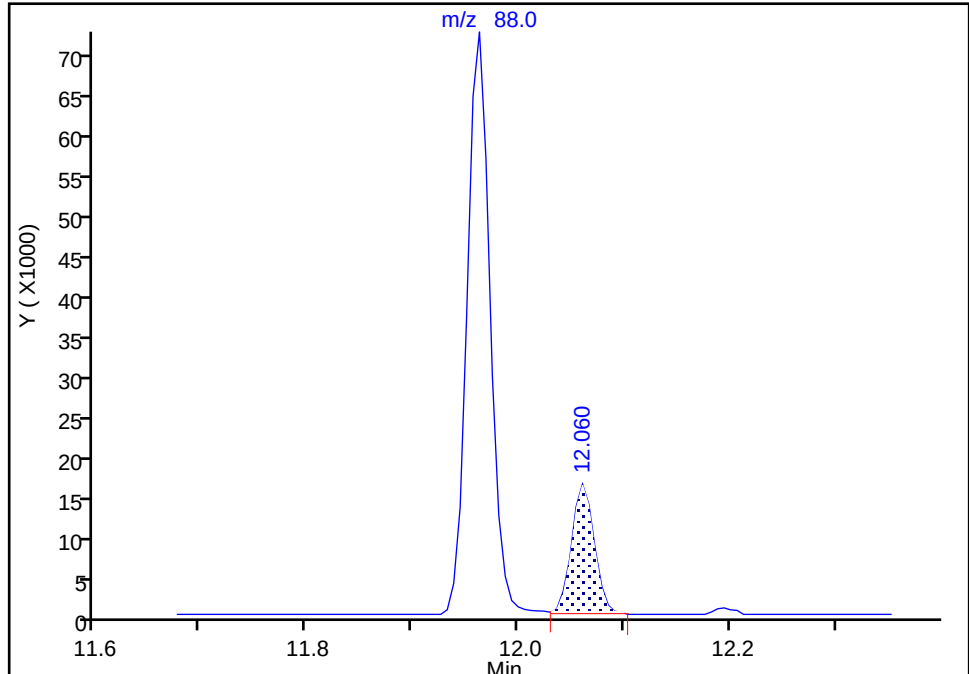
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X06.D
Injection Date: 17-Oct-2023 05:42:30 Instrument ID: 19094
Lims ID: IC std5 5
Client ID:
Operator ID: GAW91131 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

124 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

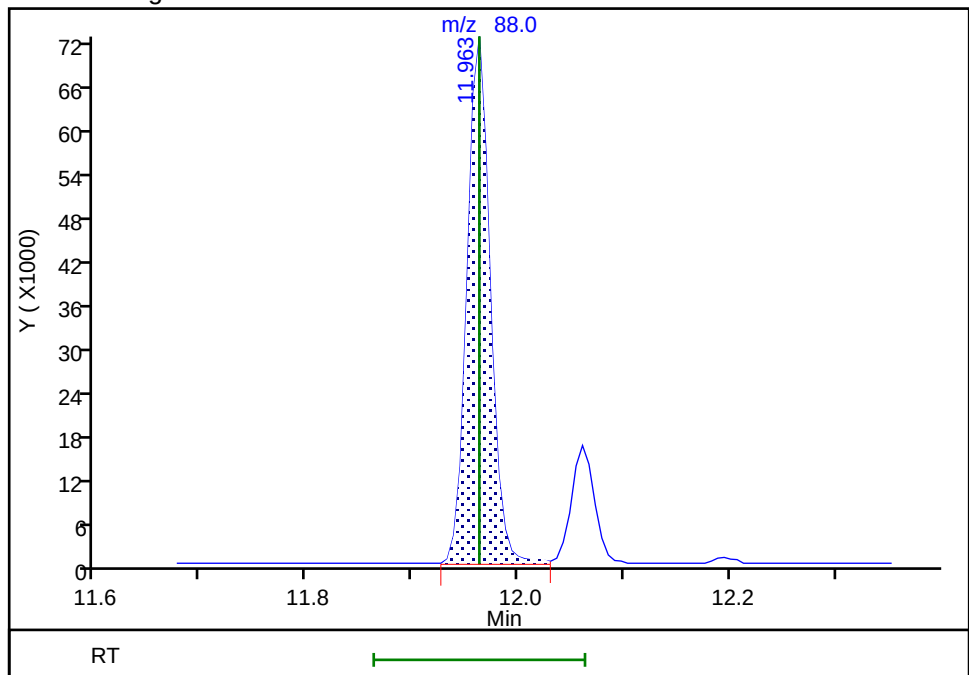
RT: 12.06
Area: 24539
Amount: 2.427017
Amount Units: ug/l

Processing Integration Results



RT: 11.96
Area: 109600
Amount: 9.929732
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 12:10:24 -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\20231016-96799.b\HO16X07.D
 Lims ID: IC std6 10
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 17-Oct-2023 06:02:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0096799-008
 Operator ID: GAW91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub49
 Method: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 20-Oct-2023 13:24:42 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: DVW2

Date: 17-Oct-2023 10:57:51

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	1.831	0.000	93	337054	10.0	10.8	
3 Chlorodifluoromethane	51	1.879	1.879	0.000	97	690429	10.0	10.2	
4 Dimethyl ether	45	1.946	1.946	0.000	99	501744	10.0	9.03	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.239	2.239	0.000	35	566296	10.0	10.3	
25 Acetonitrile	41	3.794	3.794	0.000	98	61078	50.0	47.4	
* 28 t-Butyl alcohol-d10 (IS)	65	4.007	4.007	0.000	22	48600	50.0	50.0	
35 Vinyl acetate	43	5.056	5.056	0.000	97	547670	10.0	11.4	
45 Ethyl acetate	43	5.946	5.946	0.000	99	201819	10.0	11.1	
61 Isopropyl acetate	43	7.189	7.189	0.000	98	479066	10.0	9.93	
* 64 Fluorobenzene (IS)	96	7.506	7.506	0.000	98	1723746	10.0	10.0	
75 n-Propyl acetate	61	8.506	8.506	0.000	99	96024	10.0	11.5	
78 2-Chloroethyl vinyl ether	63	9.049	9.049	0.000	93	162372	10.0	10.9	
110 n-Butyl acetate	43	10.463	10.463	0.000	97	417864	10.0	10.7	
* 113 Chlorobenzene-d5 (IS)	117	11.048	11.048	0.000	87	1305002	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.963	11.963	0.000	31	234632	20.0	21.3	a
125 Cyclohexanone	55	11.999	11.999	0.000	93	116757	500.0	479.9	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	727425	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00029	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00007	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00063	Amount Added: 5.00	Units: uL
MSV_DME_00049	Amount Added: 1.00	Units: uL
MSV_LLcentISS_00010	Amount Added: 5.00	Units: uL

Report Date: 20-Oct-2023 13:24:43

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X07.D

Injection Date: 17-Oct-2023 06:02:30

Instrument ID: 19094

Operator ID: GAW91131

Lims ID: IC std6 10

Worklist Smp#: 8

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

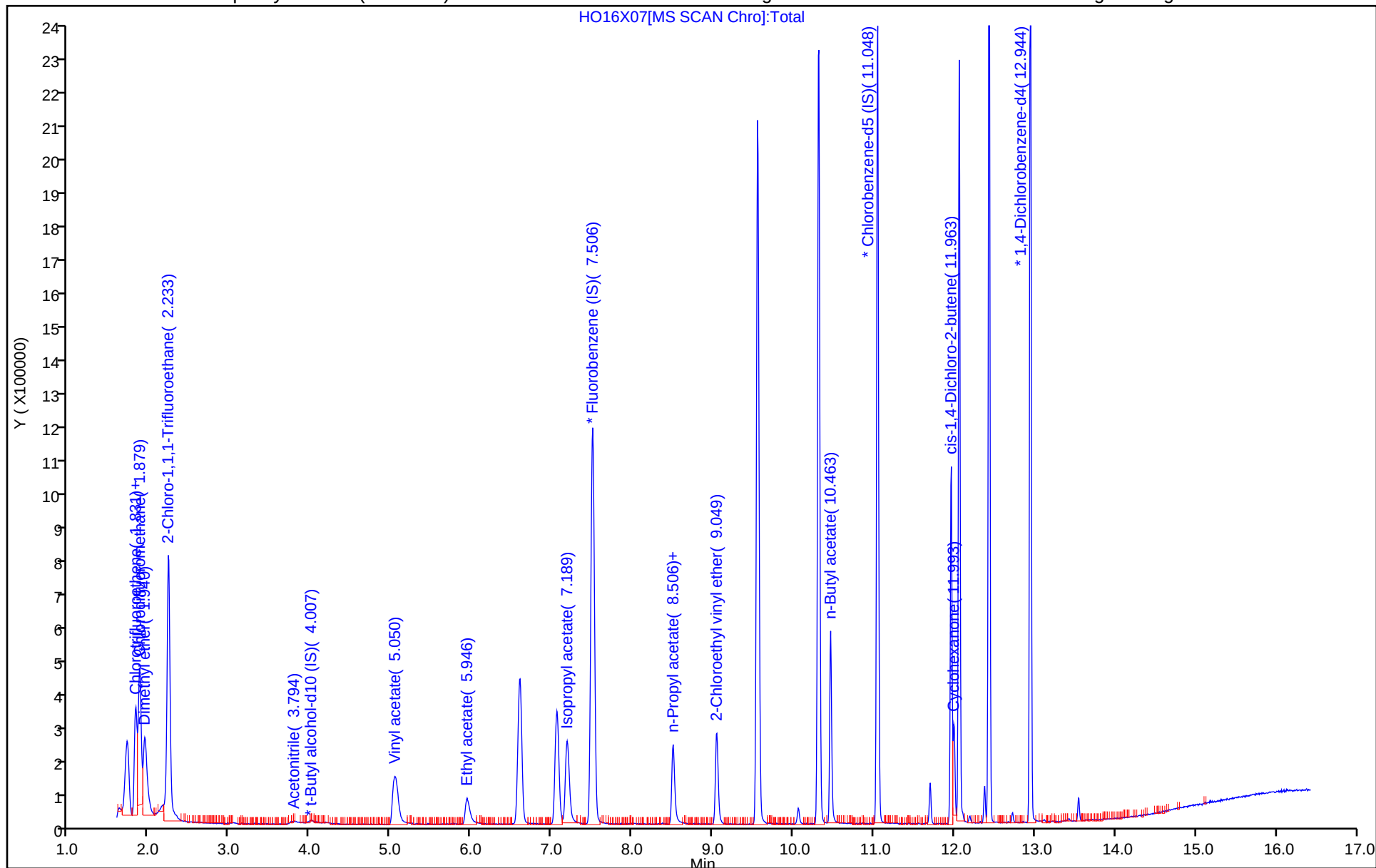
ALS Bottle#: 7

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



4/2/2024
4:19:02 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

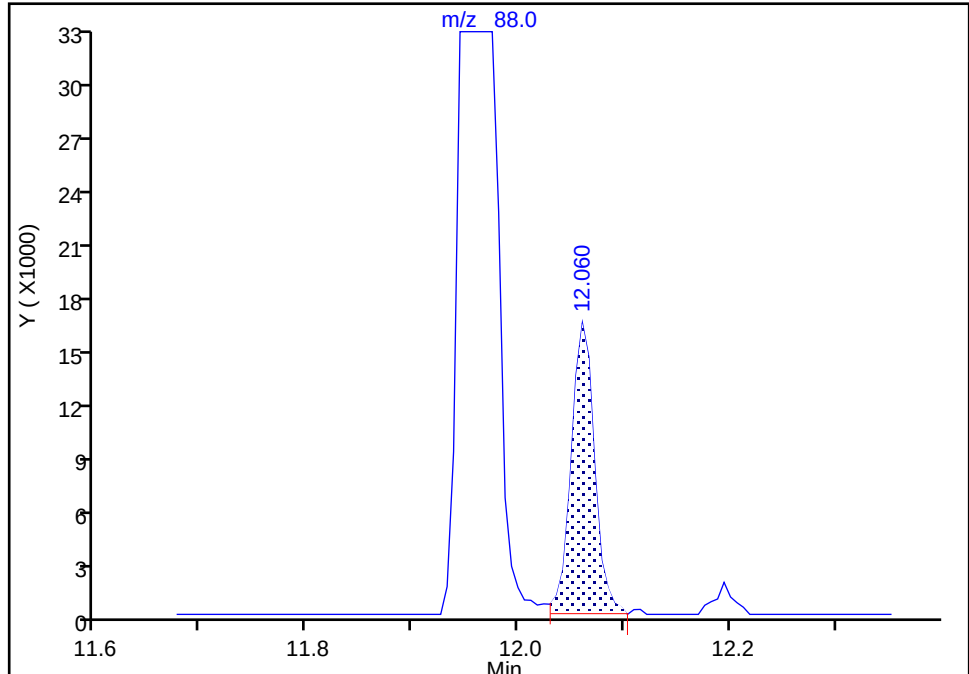
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X07.D
Injection Date: 17-Oct-2023 06:02:30 Instrument ID: 19094
Lims ID: IC std6 10
Client ID:
Operator ID: GAW91131 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

124 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

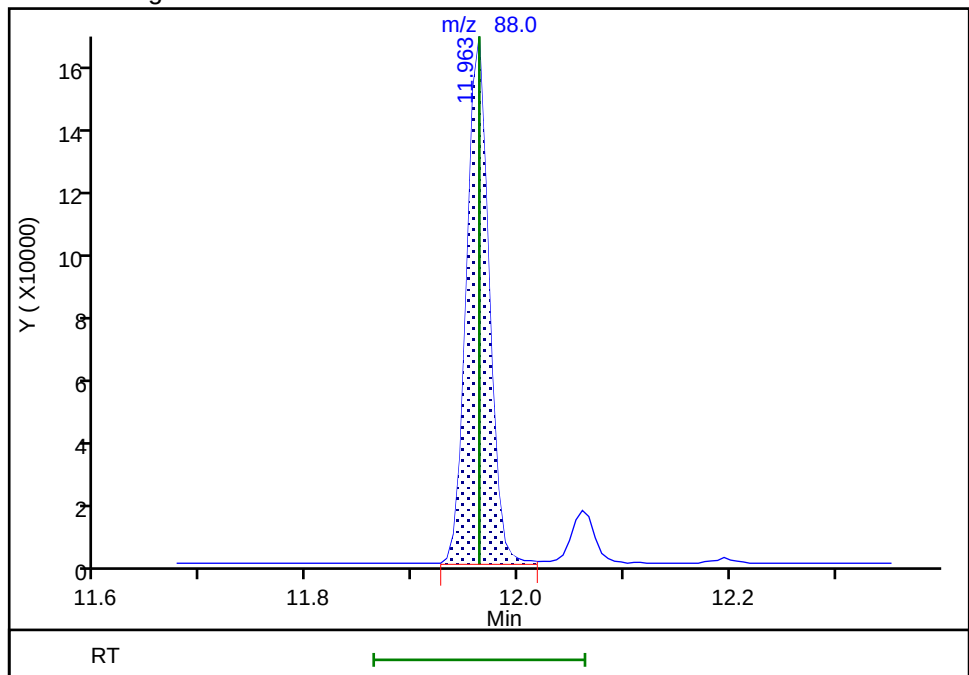
RT: 12.06
Area: 24738
Amount: 1.657029
Amount Units: ug/l

Processing Integration Results



RT: 11.96
Area: 234632
Amount: 21.257664
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 12:06:27 -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\20231016-96799.b\HO16X08.D
 Lims ID: IC std7 25
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 17-Oct-2023 06:22:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0096799-009
 Operator ID: GAW91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub49
 Method: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 20-Oct-2023 13:24:47 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: DVW2

Date: 17-Oct-2023 10:59:38

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	1.831	0.006	93	819411	25.0	26.1	
3 Chlorodifluoromethane	51	1.886	1.879	0.007	97	1693144	25.0	24.9	
4 Dimethyl ether	45	1.953	1.946	0.007	99	1223405	25.0	21.8	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.245	2.239	0.006	36	1389733	25.0	25.2	
25 Acetonitrile	41	3.775	3.794	-0.019	99	141016	125.0	108.5	
* 28 t-Butyl alcohol-d10 (IS)	65	4.032	4.007	0.025	22	49520	50.0	50.0	
35 Vinyl acetate	43	5.050	5.056	-0.006	97	1013527	25.0	20.9	
45 Ethyl acetate	43	5.952	5.946	0.006	99	436711	25.0	23.7	
61 Isopropyl acetate	43	7.189	7.189	0.000	98	1079542	25.0	22.2	
* 64 Fluorobenzene (IS)	96	7.506	7.506	0.000	99	1739369	10.0	10.0	
75 n-Propyl acetate	61	8.506	8.506	0.000	99	216167	25.0	25.7	
78 2-Chloroethyl vinyl ether	63	9.049	9.049	0.000	93	405249	25.0	26.9	
110 n-Butyl acetate	43	10.463	10.463	0.000	97	935873	25.0	23.6	
* 113 Chlorobenzene-d5 (IS)	117	11.048	11.048	0.000	87	1325140	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.963	11.963	0.000	100	588344	50.0	52.5	a
125 Cyclohexanone	55	11.999	11.999	0.000	93	330431	1250.0	1332.9	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	733535	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00029	Amount Added: 2.50	Units: uL
MSV_CCV_CYC_00007	Amount Added: 20.00	Units: uL
MSV_V_SMRV4_00063	Amount Added: 12.50	Units: uL
MSV_DME_00049	Amount Added: 2.50	Units: uL
MSV_LLcentISS_00010	Amount Added: 5.00	Units: uL

Report Date: 20-Oct-2023 13:24:49

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X08.D

Injection Date: 17-Oct-2023 06:22:30

Instrument ID: 19094

Operator ID: GAW91131

Lims ID: IC std7 25

Worklist Smp#: 9

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

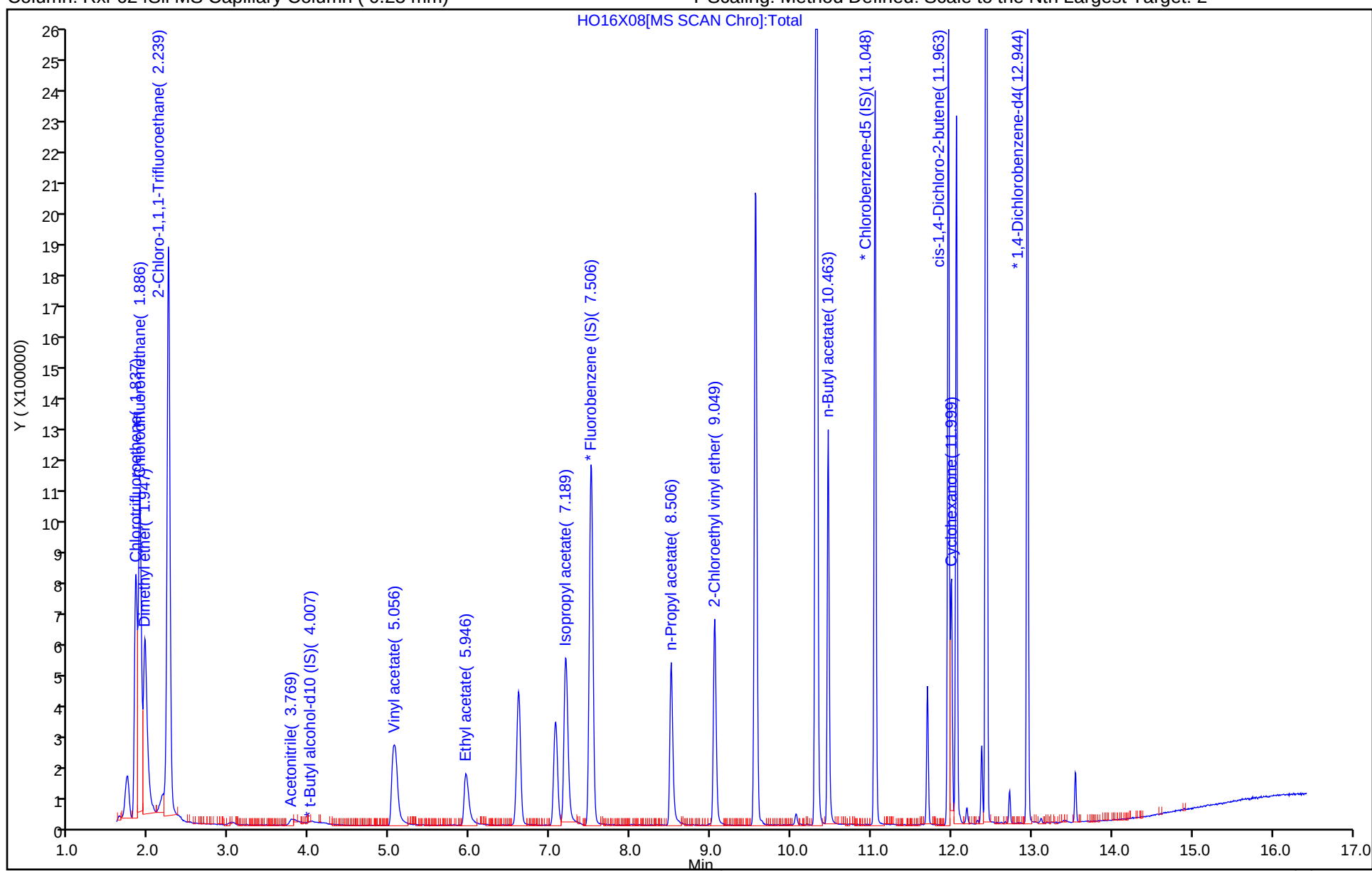
ALS Bottle#: 8

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



Eurofins Lancaster Laboratories Environment Testing, LLC

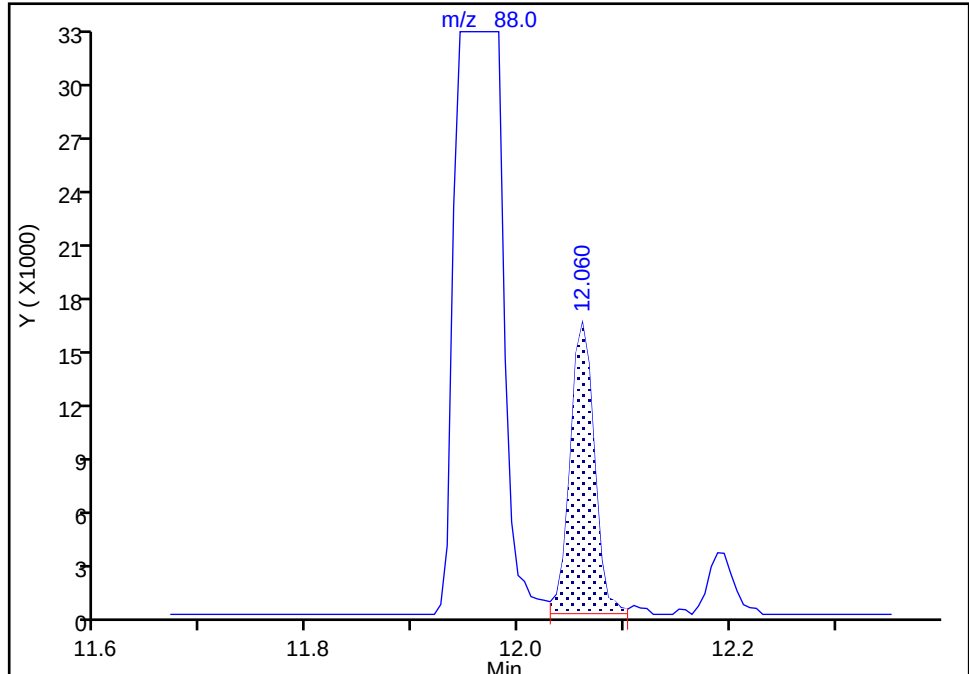
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X08.D
Injection Date: 17-Oct-2023 06:22:30 Instrument ID: 19094
Lims ID: IC std7 25
Client ID:
Operator ID: GAW91131 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

124 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

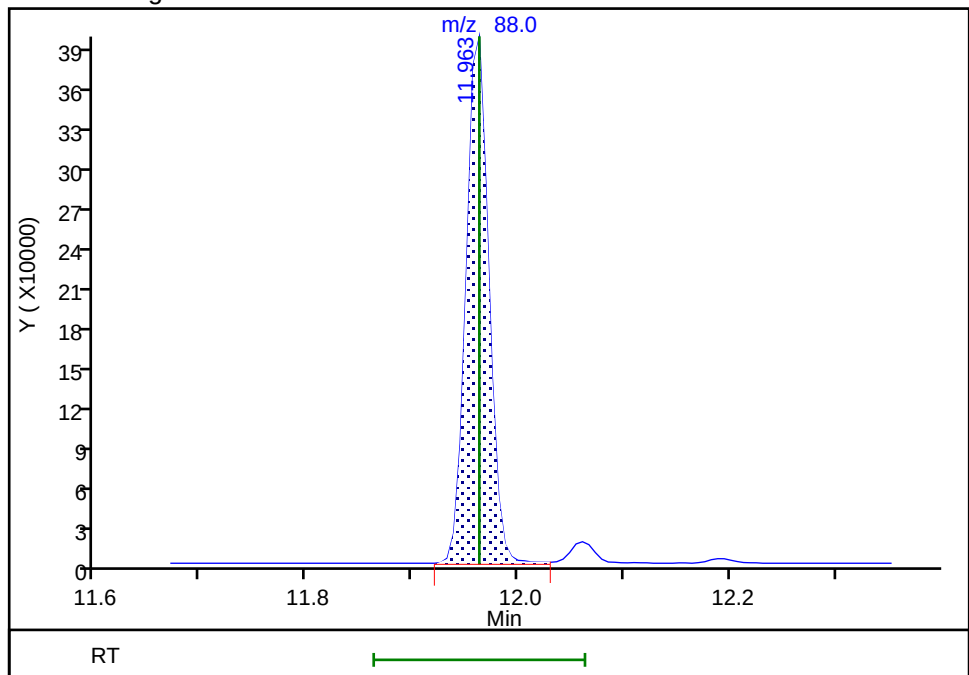
RT: 12.06
Area: 25885
Amount: 2.250734
Amount Units: ug/l

Processing Integration Results



RT: 11.96
Area: 588344
Amount: 52.493924
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 12:12:03 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Calibration

/ Chlorodifluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

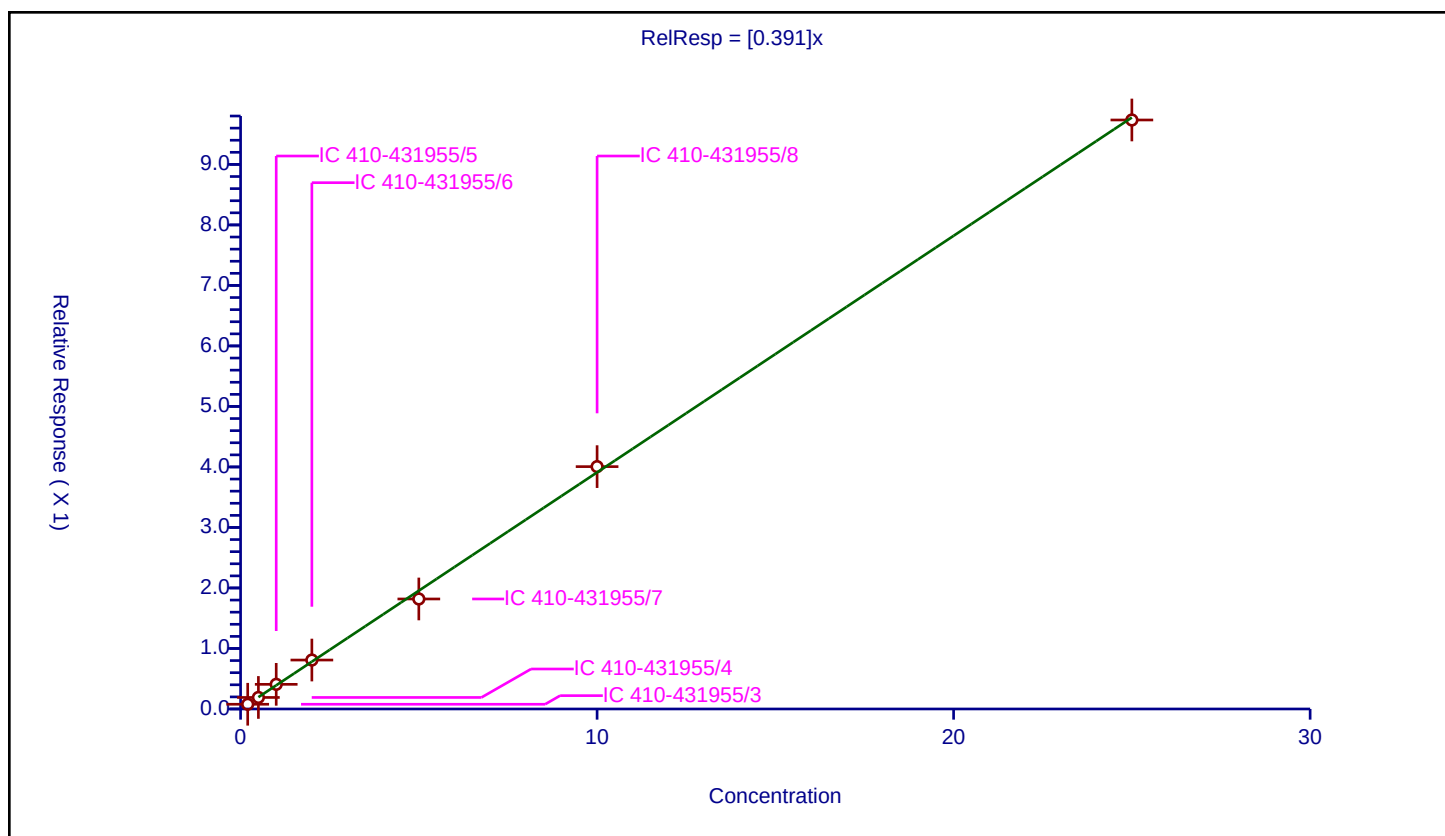
Curve Coefficients

Intercept: 0
Slope: 0.391

Error Coefficients

Standard Error: 760000
Relative Standard Error: 3.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/3	0.2	0.078052	10.0	1743969.0	0.390259	Y
2	IC 410-431955/4	0.5	0.190611	10.0	1705254.0	0.381222	Y
3	IC 410-431955/5	1.0	0.407652	10.0	1727798.0	0.407652	Y
4	IC 410-431955/6	2.0	0.80889	10.0	1718207.0	0.404445	Y
5	IC 410-431955/7	5.0	1.818219	10.0	1720288.0	0.363644	Y
6	IC 410-431955/8	10.0	4.005399	10.0	1723746.0	0.40054	Y
7	IC 410-431955/9	25.0	9.734243	10.0	1739369.0	0.38937	Y



Calibration

/ Dimethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

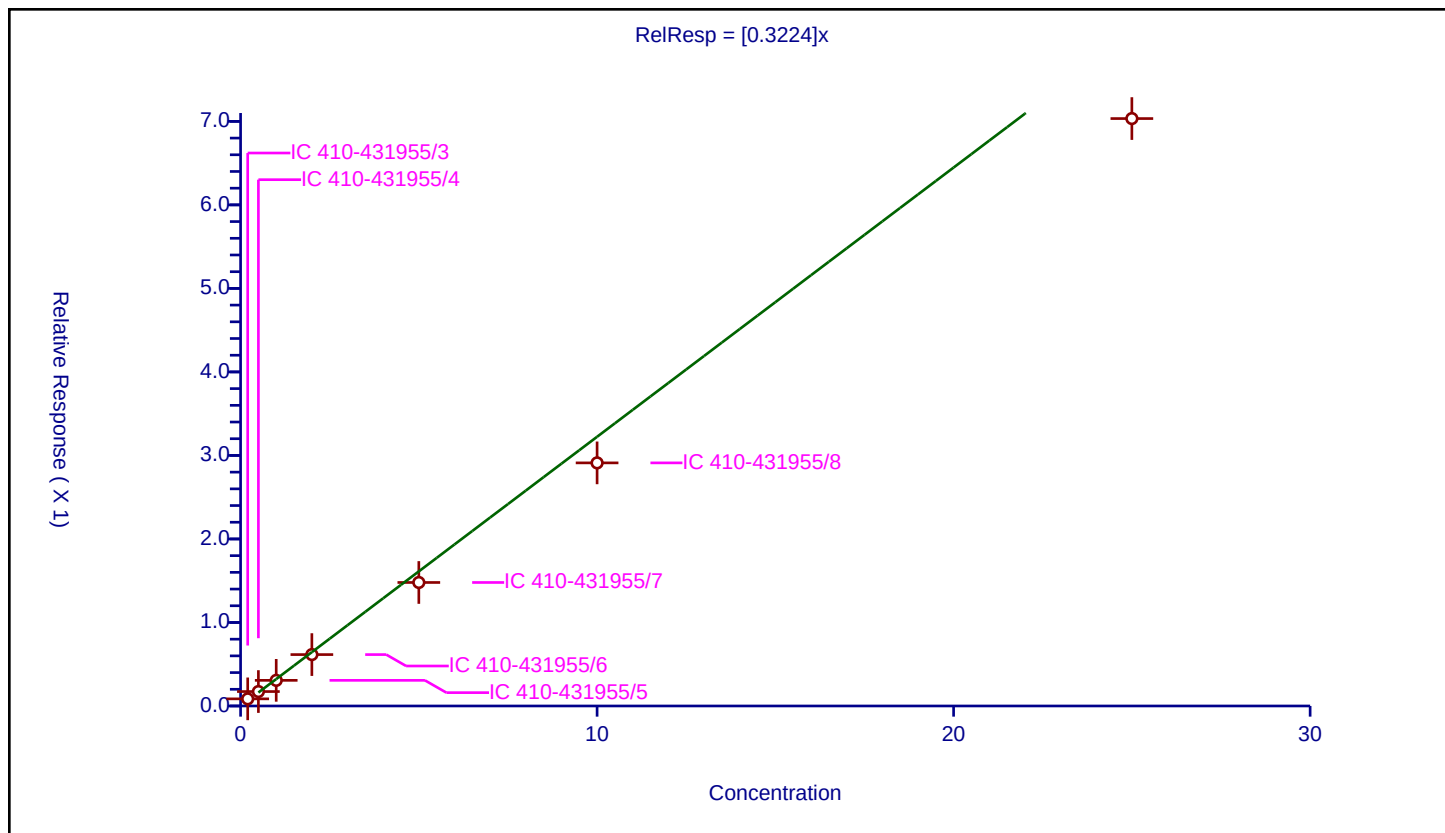
Curve Coefficients

Intercept: 0
Slope: 0.3224

Error Coefficients

Standard Error: 552000
Relative Standard Error: 15.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.957

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/3	0.2	0.085546	10.0	1743969.0	0.427731	Y
2	IC 410-431955/4	0.5	0.172965	10.0	1705254.0	0.345931	Y
3	IC 410-431955/5	1.0	0.306841	10.0	1727798.0	0.306841	Y
4	IC 410-431955/6	2.0	0.615549	10.0	1718207.0	0.307774	Y
5	IC 410-431955/7	5.0	1.47884	10.0	1720288.0	0.295768	Y
6	IC 410-431955/8	10.0	2.910777	10.0	1723746.0	0.291078	Y
7	IC 410-431955/9	25.0	7.033614	10.0	1739369.0	0.281345	Y



Calibration

/ Acetonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

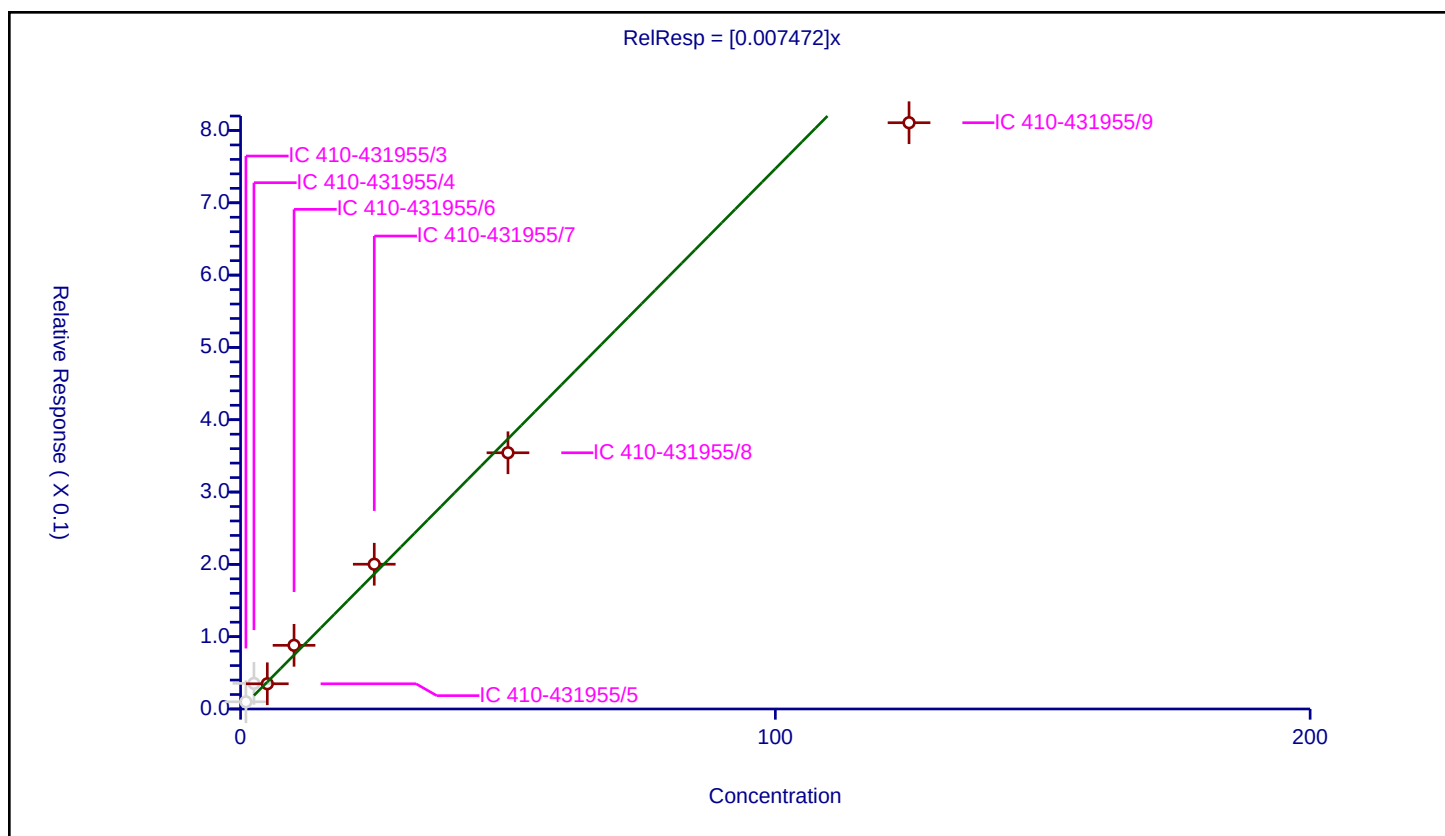
Curve Coefficients

Intercept: 0
Slope: 0.007472

Error Coefficients

Standard Error: 79200
Relative Standard Error: 12.4
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/3	1.0	0.009949	10.0	1743969.0	0.009949	N
2	IC 410-431955/4	2.5	0.035396	10.0	1705254.0	0.014159	N
3	IC 410-431955/5	5.0	0.034871	10.0	1727798.0	0.006974	Y
4	IC 410-431955/6	10.0	0.088034	10.0	1718207.0	0.008803	Y
5	IC 410-431955/7	25.0	0.200199	10.0	1720288.0	0.008008	Y
6	IC 410-431955/8	50.0	0.354333	10.0	1723746.0	0.007087	Y
7	IC 410-431955/9	125.0	0.810731	10.0	1739369.0	0.006486	Y



Calibration

/ Vinyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

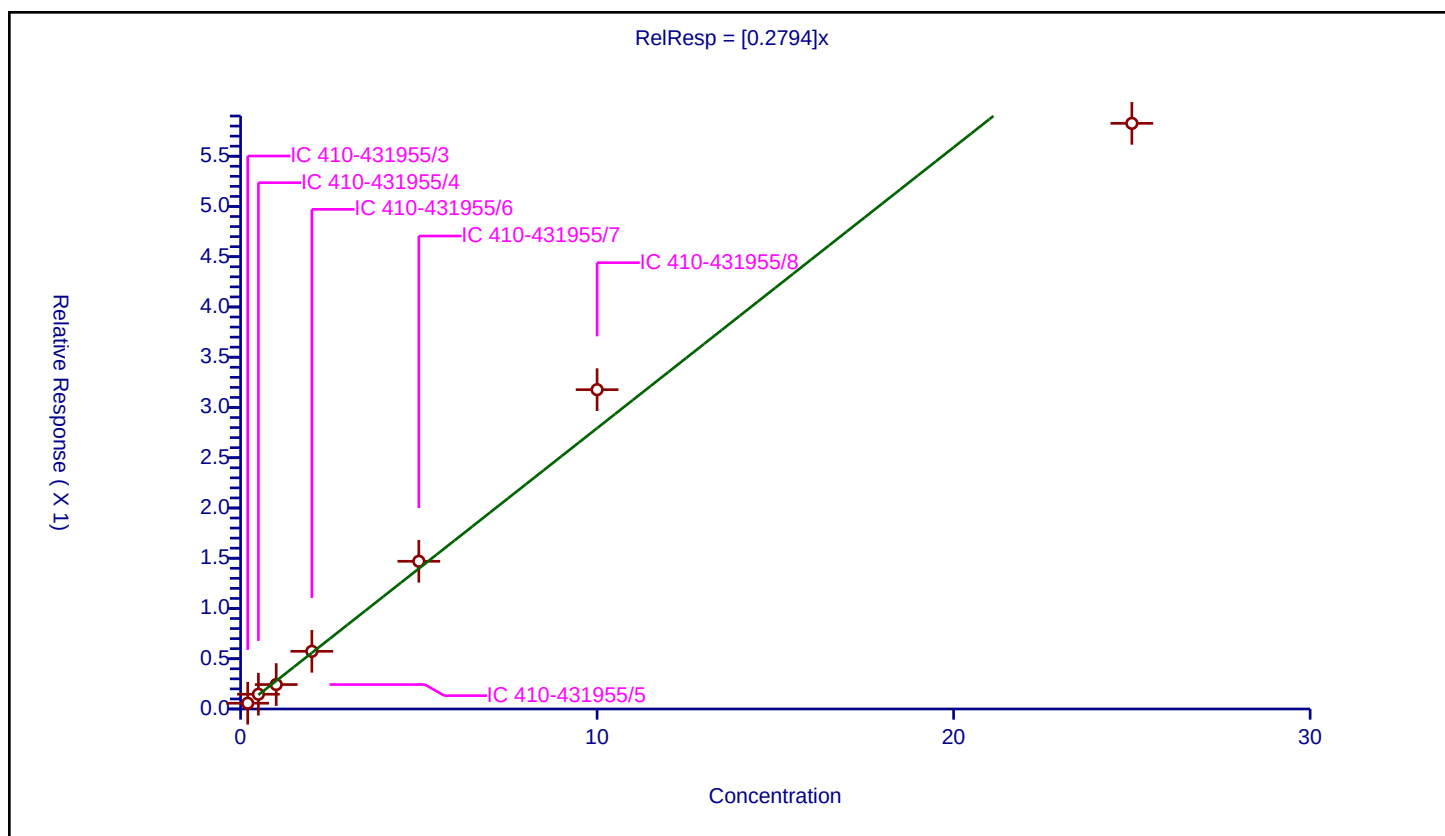
Curve Coefficients

Intercept: 0
Slope: 0.2794

Error Coefficients

Standard Error: 484000
Relative Standard Error: 10.8
Correlation Coefficient: 0.981
Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/3	0.2	0.057432	10.0	1743969.0	0.287161	Y
2	IC 410-431955/4	0.5	0.146793	10.0	1705254.0	0.293587	Y
3	IC 410-431955/5	1.0	0.2432	10.0	1727798.0	0.2432	Y
4	IC 410-431955/6	2.0	0.574133	10.0	1718207.0	0.287067	Y
5	IC 410-431955/7	5.0	1.469667	10.0	1720288.0	0.293933	Y
6	IC 410-431955/8	10.0	3.177208	10.0	1723746.0	0.317721	Y
7	IC 410-431955/9	25.0	5.826981	10.0	1739369.0	0.233079	Y



Calibration

/ Ethyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

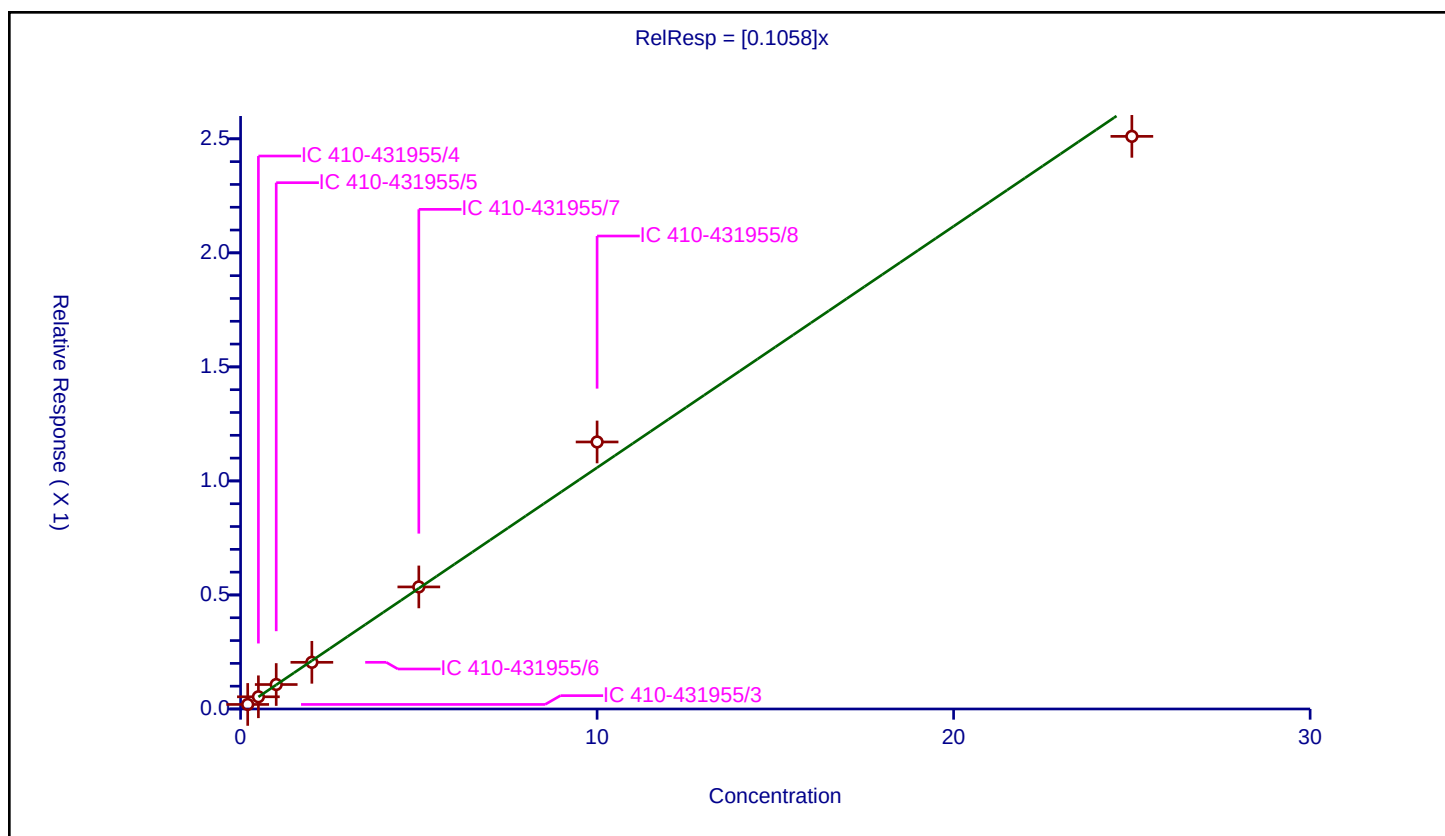
Curve Coefficients

Intercept: 0
Slope: 0.1058

Error Coefficients

Standard Error: 201000
Relative Standard Error: 5.6
Correlation Coefficient: 0.996
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/3	0.2	0.019914	10.0	1743969.0	0.099572	Y
2	IC 410-431955/4	0.5	0.053482	10.0	1705254.0	0.106964	Y
3	IC 410-431955/5	1.0	0.107316	10.0	1727798.0	0.107316	Y
4	IC 410-431955/6	2.0	0.20469	10.0	1718207.0	0.102345	Y
5	IC 410-431955/7	5.0	0.535178	10.0	1720288.0	0.107036	Y
6	IC 410-431955/8	10.0	1.170816	10.0	1723746.0	0.117082	Y
7	IC 410-431955/9	25.0	2.510744	10.0	1739369.0	0.10043	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

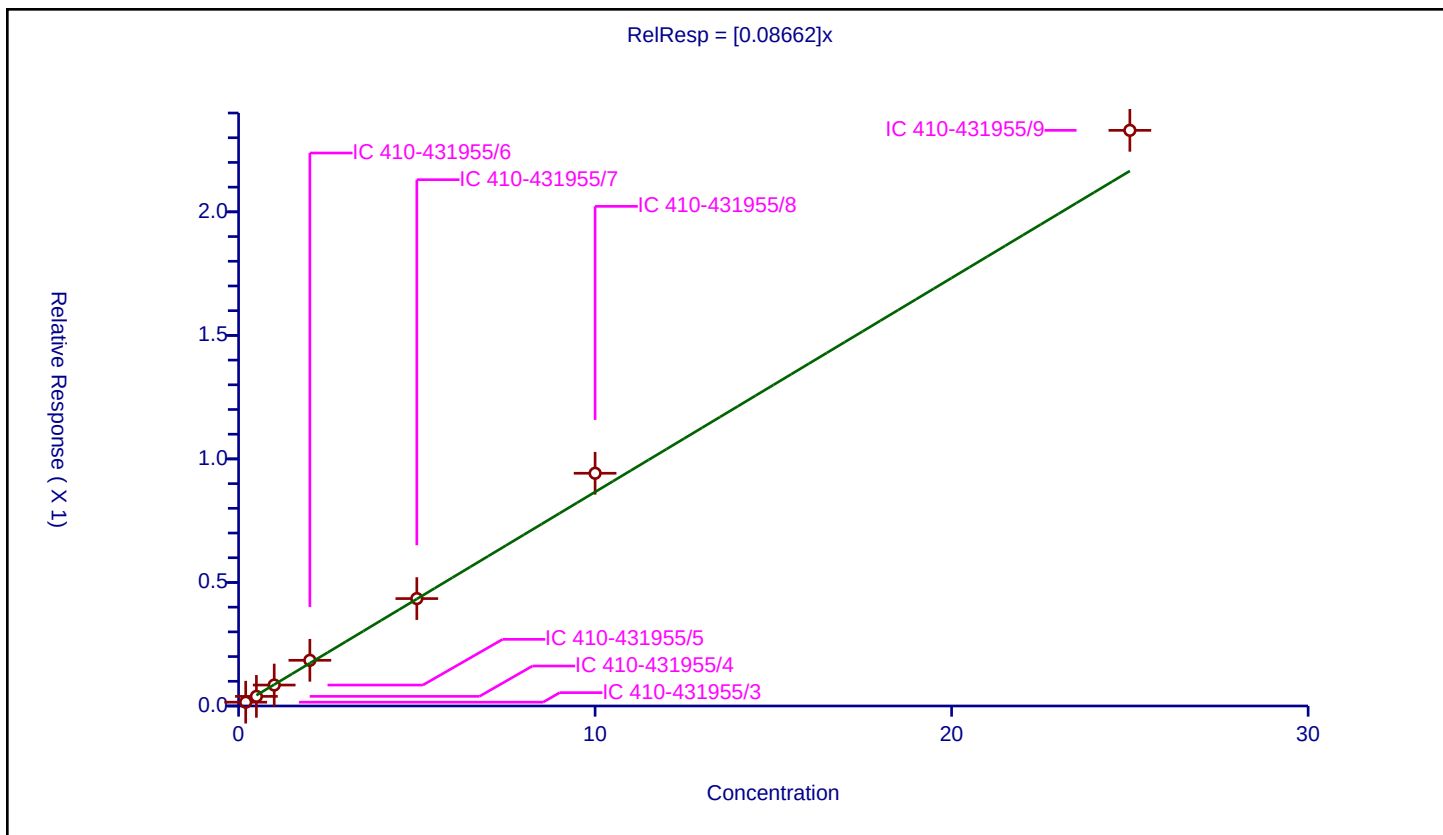
Curve Coefficients

Intercept: 0
 Slope: 0.08662

Error Coefficients

Standard Error: 181000
 Relative Standard Error: 8.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/3	0.2	0.015402	10.0	1743969.0	0.077008	Y
2	IC 410-431955/4	0.5	0.038897	10.0	1705254.0	0.077795	Y
3	IC 410-431955/5	1.0	0.084773	10.0	1727798.0	0.084773	Y
4	IC 410-431955/6	2.0	0.18489	10.0	1718207.0	0.092445	Y
5	IC 410-431955/7	5.0	0.434648	10.0	1720288.0	0.08693	Y
6	IC 410-431955/8	10.0	0.941972	10.0	1723746.0	0.094197	Y
7	IC 410-431955/9	25.0	2.329862	10.0	1739369.0	0.093194	Y



Calibration

/ cis-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

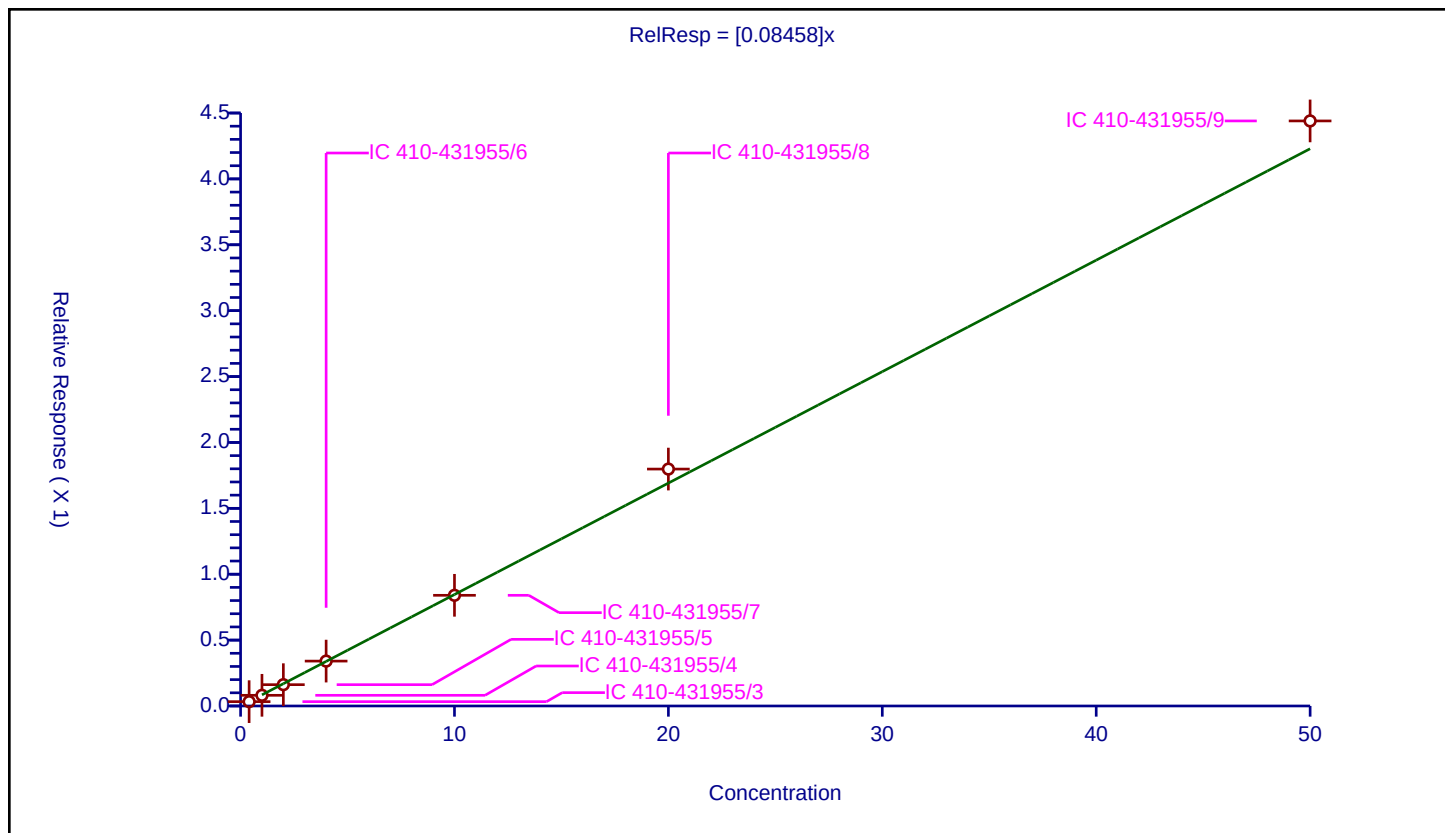
Curve Coefficients

Intercept: 0
Slope: 0.08458

Error Coefficients

Standard Error: 263000
Relative Standard Error: 4.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/3	0.39999	0.03286	10.0	1303727.0	0.082151	Y
2	IC 410-431955/4	0.999976	0.081121	10.0	1293253.0	0.081123	Y
3	IC 410-431955/5	1.999951	0.161804	10.0	1298673.0	0.080904	Y
4	IC 410-431955/6	3.999903	0.340741	10.0	1304716.0	0.085187	Y
5	IC 410-431955/7	9.999757	0.839843	10.0	1305006.0	0.083986	Y
6	IC 410-431955/8	19.999514	1.797944	10.0	1305002.0	0.089899	Y
7	IC 410-431955/9	49.998785	4.439863	10.0	1325140.0	0.088799	Y



Calibration

/ Cyclohexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

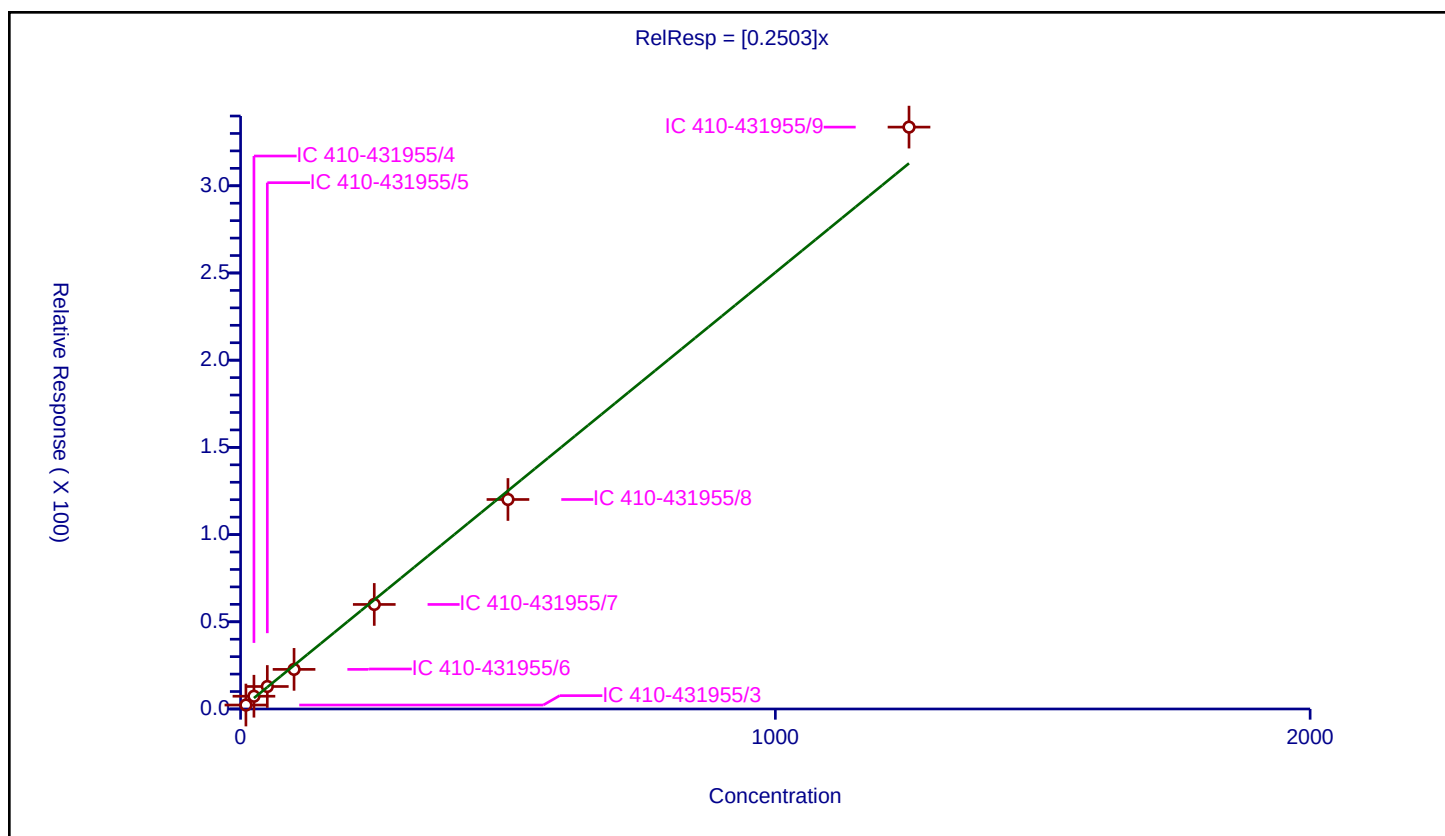
Curve Coefficients

Intercept: 0
Slope: 0.2503

Error Coefficients

Standard Error: 146000
Relative Standard Error: 9.5
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/3	9.999799	2.276753	50.0	88635.0	0.22768	Y
2	IC 410-431955/4	24.999498	7.312692	50.0	85167.0	0.292514	Y
3	IC 410-431955/5	49.998995	12.894071	50.0	50562.0	0.257887	Y
4	IC 410-431955/6	99.99799	22.713134	50.0	54332.0	0.227136	Y
5	IC 410-431955/7	249.994976	59.938637	50.0	57201.0	0.239759	Y
6	IC 410-431955/8	499.989952	120.12037	50.0	48600.0	0.240246	Y
7	IC 410-431955/9	1249.97488	333.633885	50.0	49520.0	0.266912	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 431955
Environment Testing, LLC

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43 Calibration End Date: 10/17/2023 09:43 Calibration ID: 54851

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-431955/13	HO16X12.D
Level 2	IC 410-431955/14	HO16X13.D
Level 3	IC 410-431955/15	HO16X14.D
Level 4	IC 410-431955/16	HO16X15.D
Level 5	IC 410-431955/17	HO16X16.D
Level 6	ICIS 410-431955/18	HO16X17.D
Level 7	IC 410-431955/19	HO16X18.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	0.3554 0.2832	0.3169 0.2751	0.2743	0.2587	0.3052	Ave		0.295 5			0.1000	11.1		20.0			
Chloromethane	0.3897 0.3151	0.3373 0.3067	0.2853	0.3049	0.3323	Ave		0.324 5			0.1000	10.4		20.0			
Vinyl chloride	0.3587 0.3091	0.3376 0.2961	0.2730	0.2845	0.3198	Ave		0.311 3			0.1000	9.7		20.0			
1,3-Butadiene	0.4281 0.3130	0.3971 0.2947	0.2956	0.3042	0.3306	Ave		0.337 6				15.8		20.0			
Bromomethane	0.2375 0.2241	0.2457 0.2142	0.1924	0.2057	0.2316	Ave		0.221 6			0.1000	8.4		20.0			
Chloroethane	0.2059 0.1816	0.1932 0.1737	0.1556	0.1632	0.1846	Ave		0.179 7			0.1000	9.6		20.0			
Dichlorofluoromethane	0.5471 0.4941	0.5520 0.4784	0.4319	0.4624	0.5121	Ave		0.496 9			0.1000	8.8		20.0			
Trichlorofluoromethane	0.4122 0.3762	0.4062 0.3609	0.3236	0.3362	0.3920	Ave		0.372 5			0.1000	9.1		20.0			
Ethyl ether	0.2294 0.1566	0.1819 0.1485	0.1657	0.1586	0.1625	Ave		0.171 9				15.9		20.0			
Freon 123a	++++ 0.2690	0.2973 0.2601	0.2511	0.2482	0.2782	Ave		0.267 3				6.9		20.0			
Acrolein	2.5636 2.4520	2.4333 2.3139	2.3090	2.4347	2.6397	Ave		2.449 5				4.9		20.0			
1,1-Dichloroethene	0.2771 0.1962	0.2098 0.1934	0.1856	0.1959	0.2053	Ave		0.209 0			0.1000	14.8		20.0			
Acetone	++++ 2.8671	3.3576 2.7681	3.1660	2.9221	3.0751	Ave		3.026 0			0.1000	7.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 431955
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43 Calibration End Date: 10/17/2023 09:43 Calibration ID: 54851

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	0.1804 0.2013	0.1898 0.1983	0.1840	0.1834	0.2086	Ave		0.192 3			0.1000	5.5		20.0			
Methyl iodide	0.4263 0.4236	0.4057 0.4145	0.3839	0.4005	0.4360	Ave		0.412 9				4.3		20.0			
Ethyl bromide	0.1992 0.1866	0.1900 0.1796	0.1834	0.1759	0.1950	Ave		0.187 1				4.4		20.0			
Carbon disulfide	0.6217 0.5943	0.5809 0.5771	0.5342	0.5540	0.6115	Ave		0.582 0			0.1000	5.3		20.0			
Methyl acetate	10.043 8.6445	9.6234 8.1299	8.8966	7.5719	8.8366	Ave		8.820 8			0.1000	9.5		20.0			
Allyl chloride	0.3905 0.3502	0.3547 0.3391	0.3164	0.3369	0.3602	Ave		0.349 7				6.6		20.0			
Methylene Chloride	0.2429 0.2174	0.2310 0.2123	0.2080	0.2150	0.2263	Ave		0.221 8			0.1000	5.5		20.0			
t-Butyl alcohol	1.1871 0.8062	0.9593 0.7674	0.9021	0.8188	0.8304	Ave		0.895 9				16.0		20.0			
Acrylonitrile	3.4198 4.0038	4.1307 3.8673	3.9927	3.9801	4.2558	Ave		3.950 0				6.7		20.0			
Methyl tert-butyl ether	0.5515 0.5231	0.5245 0.5149	0.5158	0.5143	0.5449	Ave		0.527 0			0.1000	2.9		20.0			
trans-1,2-Dichloroethene	0.3011 0.2321	0.2410 0.2227	0.2084	0.2221	0.2356	Ave		0.237 5			0.1000	12.6		20.0			
n-Hexane	0.2767 0.2616	0.2562 0.2565	0.2501	0.2337	0.2694	Ave		0.257 7				5.4		20.0			
1,1-Dichloroethane	0.4439 0.4309	0.4261 0.4161	0.3925	0.4039	0.4467	Ave		0.422 9			0.2000	4.7		20.0			
di-Isopropyl ether	0.7193 0.7067	0.6826 0.6870	0.6616	0.6797	0.7396	Ave		0.696 7				3.8		20.0			
2-Chloro-1,3-butadiene	0.4095 0.3872	0.3867 0.3719	0.3552	0.3654	0.4006	Ave		0.382 4				5.1		20.0			
Ethyl t-butyl ether	0.7674 0.6758	0.6909 0.6523	0.6496	0.6578	0.7052	Ave		0.685 6				6.1		20.0			
2-Butanone (MEK)	4.8771 5.1099	4.5635 4.8905	4.5855	5.3318	5.2751	Ave		4.947 6			0.1000	6.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 431955
Environment Testing, LLC

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43 Calibration End Date: 10/17/2023 09:43 Calibration ID: 54851

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	0.3343 0.2588	0.2778 0.2529	0.2331	0.2401	0.2685	Ave		0.266 5			0.1000	12.6		20.0			
2,2-Dichloropropane	0.4375 0.3909	0.3917 0.3771	0.3669	0.3688	0.4117	Ave		0.392 1				6.5		20.0			
Propionitrile	1.5250 1.3511	1.4736 1.3257	1.3711	1.1926	1.4066	Ave		1.378 0				7.8		20.0			
Methacrylonitrile	6.2522 5.3372	5.2836 5.0855	5.3450	5.3581	5.8416	Ave		5.500 5				7.3		20.0			
Bromochloromethane	0.1058 0.1102	0.1050 0.1077	0.1007	0.1034	0.1123	Ave		0.106 5				3.7		20.0			
Tetrahydrofuran	1.9596 1.4254	1.8226 1.3834	1.4377	1.5060	1.5759	Ave		1.587 2				13.9		20.0			
Chloroform	0.4706 0.4343	0.4352 0.4253	0.4156	0.4140	0.4537	Ave		0.435 5			0.2000	4.7		20.0			
1,1,1-Trichloroethane	0.4764 0.3986	0.4239 0.3843	0.3844	0.3802	0.4114	Ave		0.408 5			0.1000	8.3		20.0			
Cyclohexane	0.4555 0.3502	0.3938 0.3481	0.3444	0.3391	0.3643	Ave		0.370 8			0.1000	11.2		20.0			
Carbon tetrachloride	0.3408 0.3518	0.3436 0.3421	0.3235	0.3274	0.3644	Ave		0.341 9			0.1000	4.1		20.0			
1,1-Dichloropropene	0.3507 0.3370	0.3244 0.3253	0.3080	0.3108	0.3456	Ave		0.328 8				5.0		20.0			
Isobutyl alcohol	0.3490 0.2896	0.2426 0.2841	0.2375	0.2797	0.3015	Ave		0.283 4				13.2		20.0			
Benzene	1.0348 0.9714	0.9415 0.9475	0.8789	0.9036	1.0010	Ave		0.954 1			0.5000	5.6		20.0			
1,2-Dichloroethane	0.3072 0.2766	0.2825 0.2681	0.2637	0.2614	0.2858	Ave		0.277 9			0.1000	5.7		20.0			
t-Amyl methyl ether	0.5951 0.5859	0.5702 0.5795	0.5643	0.5626	0.6117	Ave		0.581 3				3.1		20.0			
n-Heptane	0.2881 0.2555	0.2620 0.2524	0.2332	0.2332	0.2563	Ave		0.254 4				7.3		20.0			
n-Butanol	0.2412 0.2197	0.2728 0.2033	0.2100	0.2044	0.2283	Ave		0.225 7				11.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 431955
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43 Calibration End Date: 10/17/2023 09:43 Calibration ID: 54851

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	0.3195 0.2665	0.2641 0.2615	0.2475	0.2514	0.2736	Ave		0.269 2			0.2000	8.9		20.0			
Methylcyclohexane	0.4224 0.3658	0.3599 0.3626	0.3306	0.3348	0.3766	Ave		0.364 7			0.1000	8.3		20.0			
1,2-Dichloropropane	0.2366 0.2425	0.2323 0.2385	0.2155	0.2293	0.2479	Ave		0.234 7			0.1000	4.5		20.0			
Methyl methacrylate	12.602 11.093	12.024 10.419	10.355	10.946	11.636	Ave		11.29 7				7.4		20.0			
1,4-Dioxane	++++ 0.0388	0.0063 0.0355	0.0197	0.0344	0.0365	Lin2	-0.83 6	0.039 2			0.0050				0.9940		0.9900
Dibromomethane	0.1047 0.1185	0.1080 0.1173	0.1113	0.1135	0.1224	Ave		0.113 7				5.5		20.0			
Bromodichloromethane	0.3562 0.3156	0.2990 0.3097	0.2969	0.2919	0.3210	Ave		0.312 9			0.2000	7.0		20.0			
2-Nitropropane	3.8145 3.9026	3.4150 3.6723	3.7926	4.0358	4.1798	Ave		3.830 4				6.5		20.0			
1-Bromo-2-chloroethane	0.2285 0.2348	0.2254 0.2299	0.2243	0.2304	0.2401	Ave		0.230 5				2.4		20.0			
cis-1,3-Dichloropropene	0.3794 0.3772	0.3419 0.3742	0.3339	0.3529	0.3893	Ave		0.364 1			0.2000	5.8		20.0			
4-Methyl-2-pentanone (MIBK)	14.635 13.715	14.288 12.929	13.271	13.993	14.730	Ave		13.93 7			0.1000	4.9		20.0			
Toluene	0.8851 0.8406	0.8161 0.8183	0.7612	0.7903	0.8697	Ave		0.825 9			0.4000	5.2		20.0			
trans-1,3-Dichloropropene	0.3974 0.4100	0.3826 0.4092	0.3746	0.3845	0.4202	Ave		0.396 9			0.1000	4.3		20.0			
Ethyl methacrylate	0.2696 0.3100	0.2836 0.3086	0.2811	0.2883	0.3207	Ave		0.294 6				6.3		20.0			
1,1,2-Trichloroethane	0.2281 0.2076	0.1957 0.2064	0.2044	0.1940	0.2193	Ave		0.207 9			0.1000	5.9		20.0			
Tetrachloroethene	0.4138 0.4020	0.3926 0.3909	0.3687	0.3749	0.4192	Ave		0.394 6			0.2000	4.8		20.0			
1,3-Dichloropropane	0.3548 0.3647	0.3466 0.3592	0.3428	0.3470	0.3785	Ave		0.356 2				3.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 431955
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43 Calibration End Date: 10/17/2023 09:43 Calibration ID: 54851

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	9.0310 9.3432	9.1661 8.7786	9.0268	9.5067	10.102	Ave		9.279 2			0.1000	4.7		20.0			
Dibromochloromethane	0.2732 0.2882	0.2664 0.2875	0.2605	0.2689	0.2965	Ave		0.277 3				4.8		20.0			
1,2-Dibromoethane (EDB)	0.1856 0.2073	0.2021 0.2062	0.1909	0.1963	0.2149	Ave		0.200 5			0.1000	5.1		20.0			
1-Chlorohexane	0.5515 0.4581	0.5002 0.4470	0.4356	0.4316	0.4771	Ave		0.471 6				9.0		20.0			
Chlorobenzene	0.9197 0.9208	0.9053 0.9045	0.8334	0.8604	0.9566	Ave		0.900 1			0.5000	4.6		20.0			
1,1,1,2-Tetrachloroethane	0.3338 0.3384	0.3175 0.3349	0.3052	0.3152	0.3514	Ave		0.328 1				4.9		20.0			
Ethylbenzene	1.6796 1.6504	1.5977 1.6105	1.4754	1.5315	1.7149	Ave		1.608 6			0.1000	5.2		20.0			
m&p-Xylene	0.6291 0.6468	0.6048 0.6330	0.5702	0.5937	0.6723	Ave		0.621 4			0.1000	5.5		20.0			
o-Xylene	0.6095 0.6318	0.5965 0.6202	0.5701	0.5852	0.6520	Ave		0.609 4			0.3000	4.6		20.0			
Styrene	1.0123 1.0299	0.9425 1.0157	0.8908	0.9429	1.0635	Ave		0.985 4			0.3000	6.2		20.0			
Bromoform	0.1785 0.1795	0.1724 0.1797	0.1615	0.1688	0.1827	Ave		0.174 8			0.1000	4.3		20.0			
Isopropylbenzene	1.5586 1.5536	1.4625 1.5093	1.3636	1.4153	1.6052	Ave		1.495 4			0.1000	5.8		20.0			
1,1,2,2-Tetrachloroethane	0.5057 0.4498	0.4882 0.4477	0.4238	0.4258	0.4622	Ave		0.457 6			0.3000	6.7		20.0			
Bromobenzene	0.7041 0.6932	0.6839 0.6853	0.6311	0.6503	0.7256	Ave		0.681 9				4.7		20.0			
trans-1,4-Dichloro-2-butene	5.7400 5.8041	5.5171 5.4954	5.2915	5.8267	6.1681	Ave		5.691 8				5.0		20.0			
1,2,3-Trichloropropane	0.1371 0.1211	0.1176 0.1203	0.1159	0.1178	0.1263	Ave		0.122 3				6.0		20.0			
N-Propylbenzene	3.2403 3.3825	3.1547 3.2547	3.0186	3.0643	3.5178	Ave		3.233 3				5.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 431955
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43 Calibration End Date: 10/17/2023 09:43 Calibration ID: 54851

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	0.6949 0.6985	0.6666 0.6834	0.6285	0.6396	0.7271	Ave		0.676 9				5.1		20.0			
1,3,5-Trimethylbenzene	2.4121 2.4119	2.3098 2.3637	2.1899	2.2098	2.5002	Ave		2.342 5				4.8		20.0			
4-Chlorotoluene	0.6984 0.7210	0.6783 0.7023	0.6347	0.6566	0.7488	Ave		0.691 5				5.6		20.0			
tert-Butylbenzene	0.5871 0.5387	0.5305 0.5230	0.5172	0.4910	0.5553	Ave		0.534 7				5.7		20.0			
Pentachloroethane	0.4097 0.4613	0.4133 0.4516	0.4169	0.4237	0.4752	Ave		0.436 0				6.0		20.0			
1,2,4-Trimethylbenzene	2.4780 2.4498	2.3240 2.4078	2.1477	2.2247	2.5474	Ave		2.368 5				6.1		20.0			
sec-Butylbenzene	3.0415 2.9668	2.7697 2.9037	2.6009	2.6458	3.0454	Ave		2.853 4				6.4		20.0			
1,3-Dichlorobenzene	1.3307 1.3575	1.2594 1.3426	1.2071	1.2430	1.4099	Ave		1.307 2			0.6000	5.5		20.0			
p-Isopropyltoluene	2.6111 2.6359	2.4442 2.5804	2.2849	2.3324	2.7021	Ave		2.513 0				6.4		20.0			
1,4-Dichlorobenzene	1.3832 1.3502	1.3046 1.3263	1.2276	1.2398	1.3997	Ave		1.318 8			0.5000	5.0		20.0			
1,2,3-Trimethylbenzene	1.1462 1.0736	1.0418 1.0603	0.9743	0.9833	1.1166	Ave		1.056 6				6.0		20.0			
Benzyl chloride	0.1869 0.2004	0.1757 0.2005	0.1789	0.1897	0.2053	Ave		0.191 1				6.0		20.0			
n-Butylbenzene	1.1500 1.2134	1.1043 1.2012	1.0237	1.0513	1.2383	Ave		1.140 3				7.3		20.0			
1,2-Dichlorobenzene	1.1930 1.2125	1.1528 1.1929	1.1023	1.0985	1.2646	Ave		1.173 8			0.4000	5.1		20.0			
1,2-Dibromo-3-Chloropropane	0.0458 0.0678	0.0551 0.0707	0.0567	0.0594	0.0679	Ave		0.060 5			0.0500	14.7		20.0			
1,3,5-Trichlorobenzene	0.8545 0.9520	0.8402 0.9413	0.7984	0.8140	0.9682	Ave		0.881 2				8.0		20.0			
1,2,4-Trichlorobenzene	0.6036 0.7743	0.6052 0.7786	0.6196	0.6283	0.7633	Ave		0.681 8			0.2000	12.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

Analy Batch No.: 431955

SDG No.:

Instrument ID: 19094

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

Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43

Calibration End Date: 10/17/2023 09:43

Calibration ID: 54851

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-431955/13	HO16X12.D
Level 2	IC 410-431955/14	HO16X13.D
Level 3	IC 410-431955/15	HO16X14.D
Level 4	IC 410-431955/16	HO16X15.D
Level 5	IC 410-431955/17	HO16X16.D
Level 6	ICIS 410-431955/18	HO16X17.D
Level 7	IC 410-431955/19	HO16X18.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	12281 507209	27445 1289612	47180	90377	269784	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	13466 564233	29218 1437851	49073	106532	293765	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	12396 553589	29242 1388317	46957	99395	282735	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	14795 560540	34392 1381584	50830	106290	292220	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	8208 401381	21283 1004257	33098	71849	204743	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	7114 325286	16732 814435	26760	57006	163220	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	18906 884888	47810 2242569	74286	161545	452713	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	14244 673647	35185 1691810	55649	117460	346496	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	7928 280429	15760 696272	28495	55414	143660	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	++++ 481778	25749 1219424	43180	86730	245902	++++ 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAdl 0	Ave	38712 2058814	91320 5421811	183300	375617	1041124	10.0 500	25.0 1250	50.0	100	250
1,1-Dichloroethene	FB	Ave	9577 351395	18171 906570	31918	68446	181453	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAdl 0	Ave	++++ 481459	25201 1297197	50266	90162	242560	++++ 100	5.00 250	10.0	20.0	50.0
Freon 113	FB	Ave	6235 360550	16437 929807	31640	64086	184393	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.: 410-161790-1

Analy Batch No.: 431955

SDG No.:

Instrument ID: 19094

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

Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43

Calibration End Date: 10/17/2023 09:43

Calibration ID: 54851

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	14733 758656	35135 1943225	66017	139912	385400	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl bromide	FB	Ave	6877 333791	16438 841362	31517	61398	172221	0.200 9.99	0.500 25.0	0.999	2.00	5.00
Carbon disulfide	FB	Ave	21484 1064212	50315 2705357	91871	193567	540550	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBA d1 0	Ave	3033 145164	7223 380982	14125	23363	69702	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	13495 627191	30721 1589573	54415	117690	318387	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	8395 389393	20005 995462	35765	75109	200041	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBA d1 0	Ave	7170 270754	14400 719241	28646	50526	130999	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBA d1 0	Ave	2582 168087	7751 453076	15848	30701	83924	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tert-butyl ether	FB	Ave	19060 936741	45429 2413997	88705	179688	481655	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	10404 415667	20871 1043791	35833	77588	208242	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	9561 468454	22187 1202233	43007	81655	238153	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	15342 771595	36905 1950616	67496	141100	394881	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	24859 1265608	59122 3220831	113788	237450	653775	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	14153 693459	33494 1743566	61081	127676	354098	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	26519 1210160	59843 3058176	111723	229798	623332	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBA d1 0	Ave	14729 858081	34252 2291803	72803	164512	416096	2.00 100	5.00 250	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	11553 463373	24065 1185422	40092	83892	237306	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	15119 700054	33930 1767722	63094	128858	363968	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.: 410-161790-1

Analy Batch No.: 431955

SDG No.:

Instrument ID: 19094

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

Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43

Calibration End Date: 10/17/2023 09:43

Calibration ID: 54851

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Propionitrile	TBA01	Ave	9211 453768	22121 1242528	43536	73597	221902	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBA01	Ave	18882 896260	39657 2383156	84861	165324	460779	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	3656 197344	9090 505069	17318	36142	99299	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBA01	Ave	2959 119685	6840 324154	11413	23233	62153	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	16265 777655	37690 1993721	71473	144654	401062	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	16465 713756	36711 1801496	66112	132836	363673	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	15741 627140	34107 1631813	59226	118477	322054	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	11777 630044	29764 1603652	55633	114375	322102	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	12121 603402	28100 1524924	52973	108568	305524	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBA01	Ave	5270 243164	9104 665662	18857	43149	118894	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	35763 1739533	81541 4441888	151159	315674	884849	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	10615 495374	24468 1256931	45348	91322	252595	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	20566 1049210	49389 2716526	97049	196556	540680	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	9956 457520	22688 1183220	40112	81488	226574	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butanol	TBA01	Ave	6375 322813	17916 833677	29168	55184	157550	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	11042 477276	22875 1225963	42574	87827	241889	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	14596 655108	31168 1699819	56858	116968	332915	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	8178 434187	20116 1118071	37054	80119	219159	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.: 410-161790-1

Analy Batch No.: 431955

SDG No.:

Instrument ID: 19094

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

Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43

Calibration End Date: 10/17/2023 09:43

Calibration ID: 54851

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl methacrylate	TBA01	Ave	3806 186286	9025 488267	16441	33773	91782	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBA01	Lin2	++++ 32606	235 83291	1563	5314	14378	++++ 500	25.0 1250	50.0	100	250
Dibromomethane	FB	Ave	3617 212223	9357 549830	19149	39667	108172	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	12309 565218	25898 1452028	51068	101988	283768	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBA01	Ave	5760 327671	12816 860468	30107	62262	164849	1.00 50.0	2.50 125	5.00	10.0	25.0
1-Bromo-2-chloroethane	FB	Ave	7898 420542	19521 1077642	38584	80483	212267	0.200 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,3-Dichloropropene	FB	Ave	13113 675489	29612 1754015	57433	123296	344128	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone (MIBK)	TBA01	Ave	44199 2303046	107243 6058586	210696	431750	1161884	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd5	Ave	23070 1142311	53186 2918122	99695	209943	579879	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd5	Ave	10357 557232	24935 1459303	49058	102145	280170	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd5	Ave	7028 421239	18481 1100528	36821	76587	213843	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2-Trichloroethane	CBZd5	Ave	5946 282069	12757 735870	26773	51528	146211	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd5	Ave	10786 546346	25588 1393850	48288	99577	279523	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd5	Ave	9247 495565	22586 1280937	44898	92167	252396	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBA01	Ave	27274 1568973	68798 4113843	143316	293326	796852	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd5	Ave	7121 391692	17364 1025341	34113	71443	197684	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane (EDB)	CBZd5	Ave	4837 281663	13173 735357	24996	52137	143307	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd5	Ave	14374 622571	32597 1593955	57045	114661	318107	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.: 410-161790-1

Analy Batch No.: 431955

SDG No.:

Instrument ID: 19094

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

Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43

Calibration End Date: 10/17/2023 09:43

Calibration ID: 54851

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	23971 1251390	59000 3225340	109152	228565	637795	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd5	Ave	8699 459904	20693 1194283	39973	83742	234270	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd5	Ave	43776 2242763	104124 5743058	193231	406835	1143402	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd5	Ave	32792 1757894	78826 4514240	149357	315441	896495	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd5	Ave	15887 858645	38877 2211532	74669	155466	434748	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Styrene	CBZd5	Ave	26383 1399608	61427 3621922	116663	250467	709117	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd5	Ave	4653 243995	11238 640885	21153	44849	121808	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd5	Ave	40623 2111260	95314 5382098	178597	375955	1070240	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd4	Ave	7288 348020	17830 909156	30867	64343	174174	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd4	Ave	10147 536338	24978 1391566	45967	98259	273415	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBA d1 0	Ave	17335 974662	41410 2575267	84012	179781	486532	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd4	Ave	1976 93674	4295 244226	8444	17806	47572	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd4	Ave	46699 2617024	115224 6609275	219857	463022	1325546	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd4	Ave	10015 540390	24346 1387686	45777	96650	273969	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd4	Ave	34763 1866045	84362 4799921	159499	333908	942099	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd4	Ave	10065 557795	24775 1426214	46229	99221	282160	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd4	Ave	8461 416802	19375 1062110	37670	74192	209234	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Pentachloroethane	DCBd4	Ave	5905 356890	15094 917050	30365	64027	179069	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd4	Ave	35712 1895362	84884 4889578	156430	336157	959866	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd4	Ave	43833	101163	189434	399783	1147529	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.: 410-161790-1

Analy Batch No.: 431955

SDG No.:

Instrument ID: 19094

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

Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43

Calibration End Date: 10/17/2023 09:43

Calibration ID: 54851

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
			2295397	5896551				10.0	25.0			
1,3-Dichlorobenzene	DCBd4	Ave	19178 1050300	46000 2726352	87918	187826	531270	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd4	Ave	37631 2039325	89272 5239951	166418	352439	1018163	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd4	Ave	19935 1044640	47649 2693379	89409	187339	527414	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd4	Ave	16519 830627	38052 2153109	70965	148580	420731	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd4	Ave	2693 155081	6418 407152	13031	28669	77368	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd4	Ave	16573 938789	40332 2439188	74564	158862	466594	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd4	Ave	17193 938103	42105 2422463	80283	165991	476507	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	660 52436	2012 143556	4130	8968	25588	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd4	Ave	12315 736563	30689 1911490	58149	122993	364821	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trichlorobenzene	DCBd4	Ave	8699 599055	22105 1581016	45128	94941	287606	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd4	Ave	3988 213022	9472 556855	17738	35341	107924	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd4	Ave	13420 946293	35396 2569391	71397	153733	447944	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd4	Ave	5670 443087	16044 1194182	31335	65209	203417	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	438774 452725	437059 473178	437636	445914	446285	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	81967 86260	81768 90407	82376	83713	84004	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd5	Ave	1714579 1796445	1731261 1885324	1724391	1748617	1774999	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	640333 670074	645602 712164	645223	661555	659508	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 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.: 410-161790-1

Analy Batch No.: 431955

SDG No.:

Instrument ID: 19094

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

Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43

Calibration End Date: 10/17/2023 09:43

Calibration ID: 54851

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-431955/13	HO16X12.D
Level 2	IC 410-431955/14	HO16X13.D
Level 3	IC 410-431955/15	HO16X14.D
Level 4	IC 410-431955/16	HO16X15.D
Level 5	IC 410-431955/17	HO16X16.D
Level 6	ICIS 410-431955/18	HO16X17.D
Level 7	IC 410-431955/19	HO16X18.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	20.2 -6.9	7.2	-7.2	-12.5	3.3	-4.2	50 30	30	30	30	30	30
Chloromethane	20.1 -5.5	4.0	-12.1	-6.0	2.4	-2.9	50 30	30	30	30	30	30
Vinyl chloride	15.2 -4.9	8.5	-12.3	-8.6	2.8	-0.7	50 30	30	30	30	30	30
1,3-Butadiene	26.8 -12.7	17.6	-12.5	-9.9	-2.1	-7.3	50 30	30	30	30	30	30
Bromomethane	7.2 -3.3	10.9	-13.2	-7.2	4.5	1.1	50 30	30	30	30	30	30
Chloroethane	14.6 -3.3	7.5	-13.4	-9.2	2.8	1.1	50 30	30	30	30	30	30
Dichlorofluoromethane	10.1 -3.7	11.1	-13.1	-6.9	3.1	-0.5	50 30	30	30	30	30	30
Trichlorofluoromethane	10.7 -3.1	9.1	-13.1	-9.7	5.2	1.0	50 30	30	30	30	30	30
Ethyl ether	33.5 -13.6	5.9	-3.6	-7.7	-5.5	-8.9	50 30	30	30	30	30	30
Freon 123a	+++++ -2.7	11.2	-6.1	-7.1	4.1	0.6	50 30	30	30	30	30	30
Acrolein	4.7 -5.5	-0.7	-5.7	-0.6	7.8	0.1	50 30	30	30	30	30	30
1,1-Dichloroethene	32.6 -7.5	0.4	-11.2	-6.3	-1.8	-6.1	50 30	30	30	30	30	30
Acetone	+++++ -8.5	11.0	4.6	-3.4	1.6	-5.3	50 30	30	30	30	30	30
Freon 113	-6.2 3.2	-1.3	-4.3	-4.6	8.5	4.7	50 30	30	30	30	30	30
Methyl iodide	3.2 0.4	-1.8	-7.0	-3.0	5.6	2.6	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.: 410-161790-1

Analy Batch No.: 431955

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43 Calibration End Date: 10/17/2023 09:43 Calibration ID: 54851

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	6.5 -4.0	1.5	-2.0	-6.0	4.2	-0.3	50 30	30	30	30	30	30
Carbon disulfide	6.8 -0.8	-0.2	-8.2	-4.8	5.1	2.1	50 30	30	30	30	30	30
Methyl acetate	13.9 -7.8	9.1	0.9	-14.2	0.2	-2.0	50 30	30	30	30	30	30
Allyl chloride	11.7 -3.0	1.4	-9.5	-3.7	3.0	0.2	50 30	30	30	30	30	30
Methylene Chloride	9.5 -4.3	4.1	-6.3	-3.1	2.0	-2.0	50 30	30	30	30	30	30
t-Butyl alcohol	32.5 -14.3	7.1	0.7	-8.6	-7.3	-10.0	50 30	30	30	30	30	30
Acrylonitrile	-13.4 -2.1	4.6	1.1	0.8	7.7	1.4	50 30	30	30	30	30	30
Methyl tert-butyl ether	4.7 -2.3	-0.5	-2.1	-2.4	3.4	-0.7	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	26.7 -6.3	1.4	-12.3	-6.5	-0.8	-2.3	50 30	30	30	30	30	30
n-Hexane	7.3 -0.5	-0.6	-3.0	-9.3	4.5	1.5	50 30	30	30	30	30	30
1,1-Dichloroethane	5.0 -1.6	0.8	-7.2	-4.5	5.6	1.9	50 30	30	30	30	30	30
di-Isopropyl ether	3.3 -1.4	-2.0	-5.0	-2.4	6.2	1.4	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	7.1 -2.7	1.1	-7.1	-4.4	4.8	1.3	50 30	30	30	30	30	30
Ethyl t-butyl ether	11.9 -4.8	0.8	-5.2	-4.1	2.9	-1.4	50 30	30	30	30	30	30
2-Butanone (MEK)	-1.4 -1.2	-7.8	-7.3	7.8	6.6	3.3	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	25.4 -5.1	4.3	-12.5	-9.9	0.7	-2.9	50 30	30	30	30	30	30
2,2-Dichloropropane	11.6 -3.8	-0.1	-6.4	-5.9	5.0	-0.3	50 30	30	30	30	30	30
Propionitrile	10.7 -3.8	6.9	-0.5	-13.4	2.1	-1.9	50 30	30	30	30	30	30
Methacrylonitrile	13.7 -7.5	-3.9	-2.8	-2.6	6.2	-3.0	50 30	30	30	30	30	30
Bromochloromethane	-0.6 1.2	-1.4	-5.4	-2.8	5.5	3.5	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

Analy Batch No.: 431955

SDG No.:

Instrument ID: 19094

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

Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43

Calibration End Date: 10/17/2023 09:43

Calibration ID: 54851

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	23.5 -12.8	14.8	-9.4	-5.1	-0.7	-10.2	50 30	30	30	30	30	30
Chloroform	8.1 -2.4	-0.1	-4.6	-4.9	4.2	-0.3	50 30	30	30	30	30	30
1,1,1-Trichloroethane	16.6 -5.9	3.8	-5.9	-6.9	0.7	-2.4	50 30	30	30	30	30	30
Cyclohexane	22.8 -6.1	6.2	-7.1	-8.5	-1.7	-5.5	50 30	30	30	30	30	30
Carbon tetrachloride	-0.3 0.0	0.5	-5.4	-4.3	6.6	2.9	50 30	30	30	30	30	30
1,1-Dichloropropene	6.7 -1.1	-1.3	-6.3	-5.5	5.1	2.5	50 30	30	30	30	30	30
Isobutyl alcohol	23.1 0.2	-14.4	-16.2	-1.3	6.4	2.2	50 30	30	30	30	30	30
Benzene	8.5 -0.7	-1.3	-7.9	-5.3	4.9	1.8	50 30	30	30	30	30	30
1,2-Dichloroethane	10.5 -3.5	1.7	-5.1	-5.9	2.8	-0.5	50 30	30	30	30	30	30
t-Amyl methyl ether	2.4 -0.3	-1.9	-2.9	-3.2	5.2	0.8	50 30	30	30	30	30	30
n-Heptane	13.2 -0.8	3.0	-8.3	-8.3	0.8	0.4	50 30	30	30	30	30	30
n-Butanol	6.9 -9.9	20.9	-7.0	-9.4	1.2	-2.6	50 30	30	30	30	30	30
Trichloroethene	18.7 -2.8	-1.9	-8.0	-6.6	1.7	-1.0	50 30	30	30	30	30	30
Methylcyclohexane	15.8 -0.6	-1.3	-9.3	-8.2	3.3	0.3	50 30	30	30	30	30	30
1,2-Dichloropropane	0.8 1.6	-1.0	-8.2	-2.3	5.7	3.3	50 30	30	30	30	30	30
Methyl methacrylate	11.6 -7.8	6.4	-8.3	-3.1	3.0	-1.8	50 30	30	30	30	30	30
1,4-Dioxane	++++ -7.7	1.2	-7.2	9.1	1.4	3.2	30	50	30	30	30	30
Dibromomethane	-7.9 3.2	-5.0	-2.1	-0.1	7.6	4.3	50 30	30	30	30	30	30
Bromodichloromethane	13.8 -1.0	-4.4	-5.1	-6.7	2.6	0.9	50 30	30	30	30	30	30
2-Nitropropane	-0.4 -4.1	-10.8	-1.0	5.4	9.1	1.9	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.: 410-161790-1

Analy Batch No.: 431955

SDG No.:

Instrument ID: 19094

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

Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43

Calibration End Date: 10/17/2023 09:43

Calibration ID: 54851

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	-0.9 -0.3	-2.2	-2.7	-0.1	4.2	1.9	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	4.2 2.8	-6.1	-8.3	-3.1	6.9	3.6	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	5.0 -7.2	2.5	-4.8	0.4	5.7	-1.6	50 30	30	30	30	30	30
Toluene	7.2 -0.9	-1.2	-7.8	-4.3	5.3	1.8	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	0.1 3.1	-3.6	-5.6	-3.1	5.9	3.3	50 30	30	30	30	30	30
Ethyl methacrylate	-8.5 4.8	-3.7	-4.6	-2.1	8.9	5.2	50 30	30	30	30	30	30
1,1,2-Trichloroethane	9.7 -0.8	-5.9	-1.7	-6.7	5.5	-0.2	50 30	30	30	30	30	30
Tetrachloroethene	4.9 -0.9	-0.5	-6.6	-5.0	6.2	1.9	50 30	30	30	30	30	30
1,3-Dichloropropane	-0.4 0.8	-2.7	-3.8	-2.6	6.3	2.4	50 30	30	30	30	30	30
2-Hexanone	-2.7 -5.4	-1.2	-2.7	2.5	8.9	0.7	50 30	30	30	30	30	30
Dibromochloromethane	-1.5 3.7	-3.9	-6.1	-3.0	6.9	3.9	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-7.4 2.9	0.8	-4.8	-2.1	7.2	3.4	50 30	30	30	30	30	30
1-Chlorohexane	16.9 -5.2	6.1	-7.6	-8.5	1.2	-2.9	50 30	30	30	30	30	30
Chlorobenzene	2.2 0.5	0.6	-7.4	-4.4	6.3	2.3	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	1.7 2.1	-3.2	-7.0	-3.9	7.1	3.2	50 30	30	30	30	30	30
Ethylbenzene	4.4 0.1	-0.7	-8.3	-4.8	6.6	2.6	50 30	30	30	30	30	30
m&p-Xylene	1.2 1.9	-2.7	-8.2	-4.5	8.2	4.1	50 30	30	30	30	30	30
o-Xylene	0.0 1.8	-2.1	-6.4	-4.0	7.0	3.7	50 30	30	30	30	30	30
Styrene	2.7 3.1	-4.3	-9.6	-4.3	7.9	4.5	50 30	30	30	30	30	30
Bromoform	2.2 2.8	-1.3	-7.6	-3.4	4.5	2.7	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.: 410-161790-1

Analy Batch No.: 431955

SDG No.:

Instrument ID: 19094

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

Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43

Calibration End Date: 10/17/2023 09:43

Calibration ID: 54851

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	4.2 0.9	-2.2	-8.8	-5.4	7.3	3.9	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	10.5 -2.2	6.7	-7.4	-6.9	1.0	-1.7	50 30	30	30	30	30	30
Bromobenzene	3.2 0.5	0.3	-7.5	-4.6	6.4	1.7	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	0.8 -3.5	-3.1	-7.0	2.4	8.4	2.0	50 30	30	30	30	30	30
1,2,3-Trichloropropane	12.1 -1.7	-3.8	-5.2	-3.6	3.2	-1.0	50 30	30	30	30	30	30
N-Propylbenzene	0.2 0.7	-2.4	-6.6	-5.2	8.8	4.6	50 30	30	30	30	30	30
2-Chlorotoluene	2.7 0.9	-1.5	-7.2	-5.5	7.4	3.2	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	3.0 0.9	-1.4	-6.5	-5.7	6.7	3.0	50 30	30	30	30	30	30
4-Chlorotoluene	1.0 1.6	-1.9	-8.2	-5.0	8.3	4.3	50 30	30	30	30	30	30
tert-Butylbenzene	9.8 -2.2	-0.8	-3.3	-8.2	3.9	0.8	50 30	30	30	30	30	30
Pentachloroethane	-6.0 3.6	-5.2	-4.4	-2.8	9.0	5.8	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	4.6 1.7	-1.9	-9.3	-6.1	7.6	3.4	50 30	30	30	30	30	30
sec-Butylbenzene	6.6 1.8	-2.9	-8.8	-7.3	6.7	4.0	50 30	30	30	30	30	30
1,3-Dichlorobenzene	1.8 2.7	-3.7	-7.7	-4.9	7.9	3.9	50 30	30	30	30	30	30
p-Isopropyltoluene	3.9 2.7	-2.7	-9.1	-7.2	7.5	4.9	50 30	30	30	30	30	30
1,4-Dichlorobenzene	4.9 0.6	-1.1	-6.9	-6.0	6.1	2.4	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	8.5 0.3	-1.4	-7.8	-6.9	5.7	1.6	50 30	30	30	30	30	30
Benzyl chloride	-2.2 4.9	-8.0	-6.4	-0.7	7.5	4.9	50 30	30	30	30	30	30
n-Butylbenzene	0.8 5.3	-3.2	-10.2	-7.8	8.6	6.4	50 30	30	30	30	30	30
1,2-Dichlorobenzene	1.6 1.6	-1.8	-6.1	-6.4	7.7	3.3	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1 Analy Batch No.: 431955
Environment Testing, LLC

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2023 07:43 Calibration End Date: 10/17/2023 09:43 Calibration ID: 54851

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	-24.3 16.9	-8.9	-6.2	-1.9	12.3	12.1	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-3.0 6.8	-4.7	-9.4	-7.6	9.9	8.0	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-11.5 14.2	-11.2	-9.1	-7.8	11.9	13.6	50 30	30	30	30	30	30
Hexachlorobutadiene	4.7 3.8	-1.8	-7.8	-11.5	8.4	4.2	50 30	30	30	30	30	30
Naphthalene	-14.0 16.9	-10.4	-9.4	-6.0	9.9	13.0	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-18.9 21.2	-9.4	-11.3	-11.0	11.3	18.1	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	0.2 -0.4	-0.4	0.4	0.8	-0.4	-0.2	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-0.7 0.9	-1.2	0.3	0.3	-0.5	0.8	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.5 0.0	0.5	-0.4	-0.4	0.7	0.0	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.7 0.9	0.1	-0.5	0.6	-0.1	-0.4	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X12.D
 Lims ID: IC std1 0.2
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 17-Oct-2023 07:43:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0096799-013
 Operator ID: GAW91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 20-Oct-2023 13:24:51 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: DVW2

Date: 17-Oct-2023 13:19:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.867	1.873	-0.006	98	12281	0.2000	0.2405	M
5 Chloromethane	50	2.062	2.056	0.006	97	13466	0.2000	0.2402	
6 Vinyl chloride	62	2.166	2.172	-0.006	86	12396	0.2000	0.2305	
7 Butadiene	39	2.178	2.178	0.000	92	14795	0.2000	0.2536	
9 Bromomethane	94	2.483	2.483	0.000	90	8208	0.2000	0.2143	
10 Chloroethane	64	2.562	2.562	0.000	98	7114	0.2000	0.2291	
11 Dichlorofluoromethane	67	2.788	2.788	0.000	97	18906	0.2000	0.2202	
12 Trichlorofluoromethane	101	2.849	2.855	-0.006	94	14244	0.2000	0.2213	
14 Ethyl ether	59	3.087	3.080	0.007	59	7928	0.2000	0.2669	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.154	3.160	-0.006	66	14802	0.2000	0.3204	
16 Acrolein	56	3.251	3.239	0.012	99	38712	10.0	10.5	
17 1,1-Dichloroethene	96	3.379	3.373	0.006	96	9577	0.2000	0.2651	
19 Acetone	43	3.404	3.391	0.013	55	17626	2.00	3.86	M
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.428	3.416	0.012	63	6235	0.2000	0.1877	
21 Iodomethane	142	3.562	3.556	0.006	99	14733	0.2000	0.2065	
22 Ethyl bromide	108	3.593	3.580	0.013	92	6877	0.1998	0.2127	
23 Carbon disulfide	76	3.672	3.666	0.006	99	21484	0.2000	0.2136	
24 Methyl acetate	43	3.818	3.800	0.018	26	3033	0.2000	0.2277	M
26 3-Chloro-1-propene	41	3.830	3.818	0.012	86	13495	0.2000	0.2233	
27 Methylene Chloride	84	3.995	3.995	0.000	59	8395	0.2000	0.2190	
* 28 t-Butyl alcohol-d10 (IS)	65	4.001	4.007	-0.006	52	75501	50.0	50.0	
29 2-Methyl-2-propanol	59	4.123	4.111	0.012	91	7170	4.00	5.30	
31 Acrylonitrile	53	4.349	4.312	0.037	2	2582	0.5000	0.4329	
32 Methyl tert-butyl ether	73	4.391	4.391	0.000	68	19060	0.2000	0.2093	
33 trans-1,2-Dichloroethene	96	4.403	4.397	0.006	93	10404	0.2000	0.2535	M
34 Hexane	57	4.818	4.824	-0.006	87	9561	0.2000	0.2147	
36 1,1-Dichloroethane	63	5.062	5.056	0.006	94	15342	0.2000	0.2100	
37 Isopropyl ether	45	5.123	5.123	0.000	95	24859	0.2000	0.2065	
38 2-Chloro-1,3-butadiene	53	5.178	5.172	0.006	94	14153	0.2000	0.2142	
40 Tert-butyl ethyl ether	59	5.653	5.665	-0.012	96	26519	0.2000	0.2239	
41 2-Butanone (MEK)	43	5.891	5.873	0.018	89	14729	2.00	1.97	

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	5.891	5.897	-0.006	82	11553	0.2000	0.2509	M
43 2,2-Dichloropropane	77	5.909	5.909	0.000	71	15119	0.2000	0.2232	
44 Propionitrile	54	5.976	5.952	0.024	92	9211	4.00	4.43	M
S 46 1,2-Dichloroethene, Total	100				0			0.5044	
47 Methacrylonitrile	67	6.190	6.171	0.019	91	18882	2.00	2.27	
48 Chlorobromomethane	128	6.238	6.232	0.006	61	3656	0.2000	0.1988	
49 Tetrahydrofuran	71	6.275	6.257	0.018	41	2959	1.00	1.23	
50 Chloroform	83	6.385	6.385	0.000	94	16265	0.2000	0.2161	
\$ 52 Dibromofluoromethane (Surr)	113	6.610	6.604	0.006	94	438774	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.610	6.616	-0.006	67	16465	0.2000	0.2333	
54 Cyclohexane	56	6.720	6.720	0.000	90	15741	0.2000	0.2457	M
56 Carbon tetrachloride	117	6.830	6.830	0.000	92	11777	0.2000	0.1993	
55 1,1-Dichloropropene	75	6.836	6.836	0.000	90	12121	0.2000	0.2133	
57 Isobutyl alcohol	41	7.000	6.988	0.012	58	5270	10.0	12.3	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.068	7.061	0.007	77	81967	10.0	9.93	
59 Benzene	78	7.110	7.098	0.012	90	35763	0.2000	0.2169	
60 1,2-Dichloroethane	62	7.183	7.171	0.012	95	10615	0.2000	0.2211	
63 Tert-amyl methyl ether	73	7.305	7.299	0.006	97	20566	0.2000	0.2047	
* 64 Fluorobenzene (IS)	96	7.506	7.506	0.000	98	1727945	10.0	10.0	
65 n-Heptane	43	7.519	7.525	-0.006	39	9956	0.2000	0.2265	a
67 n-Butanol	56	7.921	7.891	0.031	58	6375	17.5	18.7	
68 Trichloroethene	95	8.000	8.000	0.000	94	11042	0.2000	0.2374	
69 Methylcyclohexane	83	8.311	8.305	0.006	89	14596	0.2000	0.2316	M
70 1,2-Dichloropropane	63	8.329	8.329	0.000	72	8178	0.2000	0.2017	
71 2-ethoxy-2-methyl butane	87	8.348	8.342	0.006	90	13546	0.2000	0.2091	
72 Methyl methacrylate	69	8.421	8.421	0.000	73	3806	0.2000	0.2231	
73 1,4-Dioxane	88		8.433				ND	ND	
74 Dibromomethane	93	8.439	8.439	0.000	94	3617	0.2000	0.1841	
76 Dichlorobromomethane	83	8.677	8.677	0.000	95	12309	0.2000	0.2276	
77 2-Nitropropane	41	8.951	8.939	0.012	96	5760	1.00	1.00	
79 1-Bromo-2-chloroethane	63	9.085	9.073	0.012	95	7898	0.2000	0.1983	M
80 cis-1,3-Dichloropropene	75	9.244	9.238	0.006	93	13113	0.2000	0.2084	
82 4-Methyl-2-pentanone (MIBK)	43	9.421	9.421	0.000	97	44199	2.00	2.10	
\$ 83 Toluene-d8 (Surr)	98	9.555	9.561	-0.006	94	1714579	10.0	9.95	
84 Toluene	92	9.640	9.640	0.000	98	23070	0.2000	0.2143	
85 trans-1,3-Dichloropropene	75	9.908	9.902	0.006	95	10357	0.2000	0.2002	
104 Ethyl methacrylate	69	9.976	9.975	0.001	87	7028	0.2000	0.1831	
S 105 1,3-Dichloropropene, Total	100				0			0.4086	
106 1,1,2-Trichloroethane	97	10.116	10.116	0.000	89	5946	0.2000	0.2194	
107 Tetrachloroethene	166	10.207	10.201	0.006	97	10786	0.2000	0.2098	
108 1,3-Dichloropropane	76	10.280	10.280	0.000	91	9247	0.2000	0.1992	
109 2-Hexanone	43	10.341	10.335	0.006	98	27274	2.00	1.95	
111 Chlorodibromomethane	129	10.494	10.500	-0.006	91	7121	0.2000	0.1970	
112 Ethylene Dibromide	107	10.622	10.609	0.013	90	4837	0.2000	0.1852	
* 113 Chlorobenzene-d5 (IS)	117	11.048	11.048	0.000	87	1303181	10.0	10.0	
114 1-Chlorohexane	91	11.055	11.061	-0.006	93	14374	0.2000	0.2339	
115 Chlorobenzene	112	11.073	11.073	0.000	94	23971	0.2000	0.2044	
116 1,1,1,2-Tetrachloroethane	131	11.158	11.158	0.000	92	8699	0.2000	0.2035	
117 Ethylbenzene	91	11.164	11.164	0.000	99	43776	0.2000	0.2088	
S 118 Xylenes, Total	106				0			0.6050	
119 m-Xylene & p-Xylene	106	11.280	11.280	0.000	100	32792	0.4000	0.4049	
120 o-Xylene	106	11.615	11.609	0.006	97	15887	0.2000	0.2001	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 Styrene	104	11.634	11.628	0.006	95	26383	0.2000	0.2055	
122 Bromoform	173	11.786	11.786	0.000	94	4653	0.2000	0.2043	
123 Isopropylbenzene	105	11.914	11.914	0.000	96	40623	0.2000	0.2084	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	91	640333	10.0	9.93	
127 1,1,2,2-Tetrachloroethane	83	12.164	12.164	0.000	91	7288	0.2000	0.2210	
128 Bromobenzene	156	12.176	12.176	0.000	94	10147	0.2000	0.2065	
129 trans-1,4-Dichloro-2-butene	53	12.188	12.188	0.000	95	17335	2.00	2.02	
130 1,2,3-Trichloropropane	110	12.213	12.207	0.006	74	1976	0.2000	0.2242	
131 N-Propylbenzene	91	12.249	12.249	0.000	99	46699	0.2000	0.2004	
132 2-Chlorotoluene	126	12.323	12.323	0.000	96	10015	0.2000	0.2053	
133 1,3,5-Trimethylbenzene	105	12.384	12.384	0.000	94	34763	0.2000	0.2059	
134 4-Chlorotoluene	126	12.420	12.414	0.006	97	10065	0.2000	0.2020	
135 tert-Butylbenzene	134	12.627	12.627	0.000	93	8461	0.2000	0.2196	
136 Pentachloroethane	167	12.658	12.658	0.000	81	5905	0.2000	0.1880	
137 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	35712	0.2000	0.2092	
138 sec-Butylbenzene	105	12.792	12.792	0.000	95	43833	0.2000	0.2132	
139 1,3-Dichlorobenzene	146	12.890	12.890	0.000	98	19178	0.2000	0.2036	
140 4-Isopropyltoluene	119	12.902	12.902	0.000	98	37631	0.2000	0.2078	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	96	720593	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	19935	0.2000	0.2098	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	97	16519	0.2000	0.2170	
144 Benzyl chloride	126	13.042	13.042	0.000	99	2693	0.2000	0.1956	
145 p-Diethylbenzene	119	13.176	13.170	0.006	96	20994	0.2000	0.1997	
146 n-Butylbenzene	92	13.194	13.194	0.000	98	16573	0.2000	0.2017	
147 1,2-Dichlorobenzene	146	13.225	13.225	0.000	97	17193	0.2000	0.2033	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.767	-0.006	82	660	0.2000	0.1515	
150 1,3,5-Trichlorobenzene	180	13.895	13.895	0.000	96	12315	0.2000	0.1939	
151 1,2,4-Trichlorobenzene	180	14.316	14.316	0.000	94	8699	0.2000	0.1771	
152 Hexachlorobutadiene	225	14.401	14.401	0.000	93	3988	0.2000	0.2095	
153 Naphthalene	128	14.499	14.493	0.006	97	13420	0.2000	0.1721	
154 1,2,3-Trichlorobenzene	180	14.639	14.639	0.000	93	5670	0.2000	0.1622	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00099

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00174

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00108

Amount Added: 2.00

Units: uL

MSV_LLcentISS_00009

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 20-Oct-2023 13:24:52

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X12.D

Injection Date: 17-Oct-2023 07:43:30

Instrument ID: 19094

Operator ID: GAW91131

Lims ID: IC std1 0.2

Worklist Smp#: 13

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

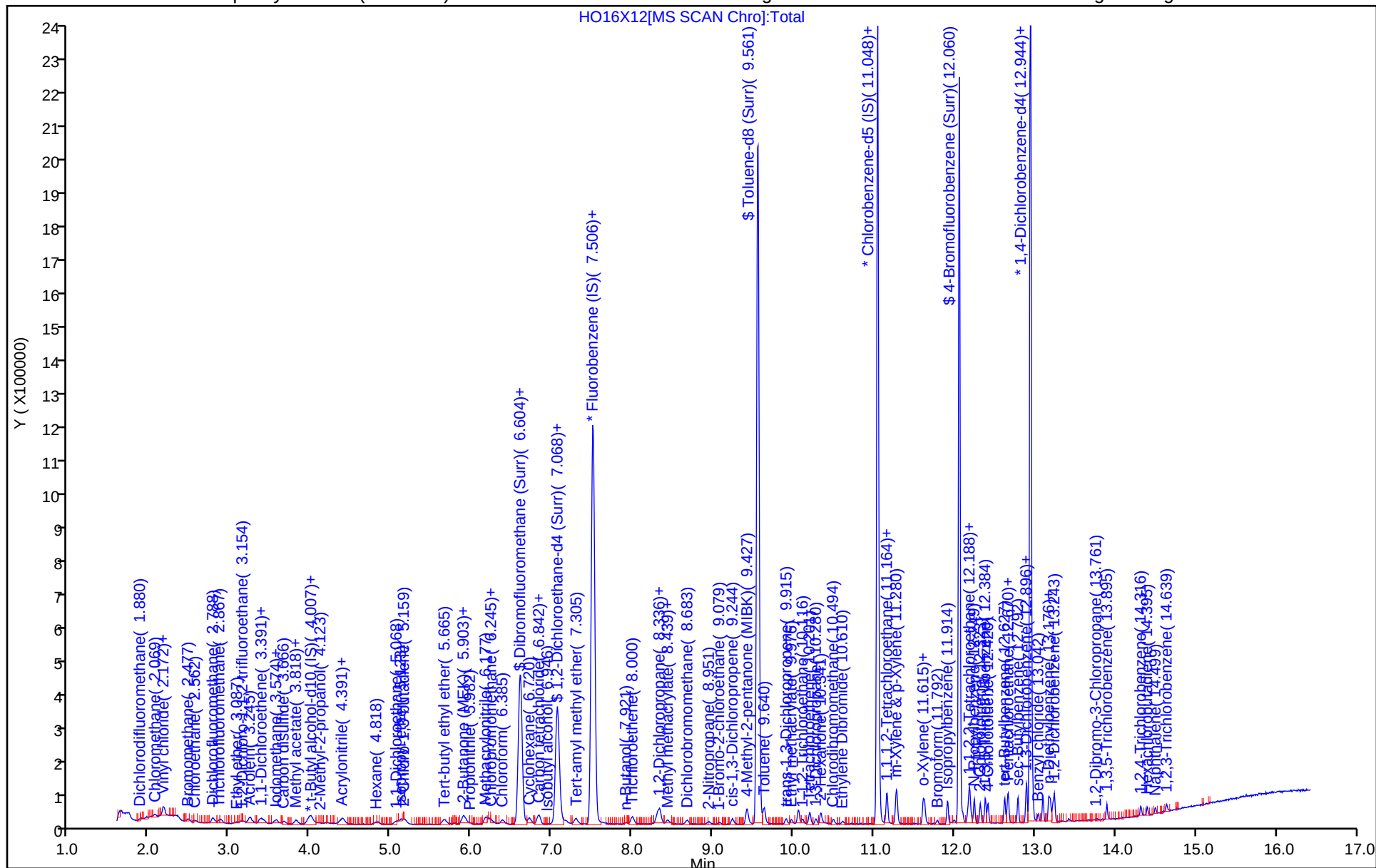
ALS Bottle#: 12

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



4/2/2024

4:19:02 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

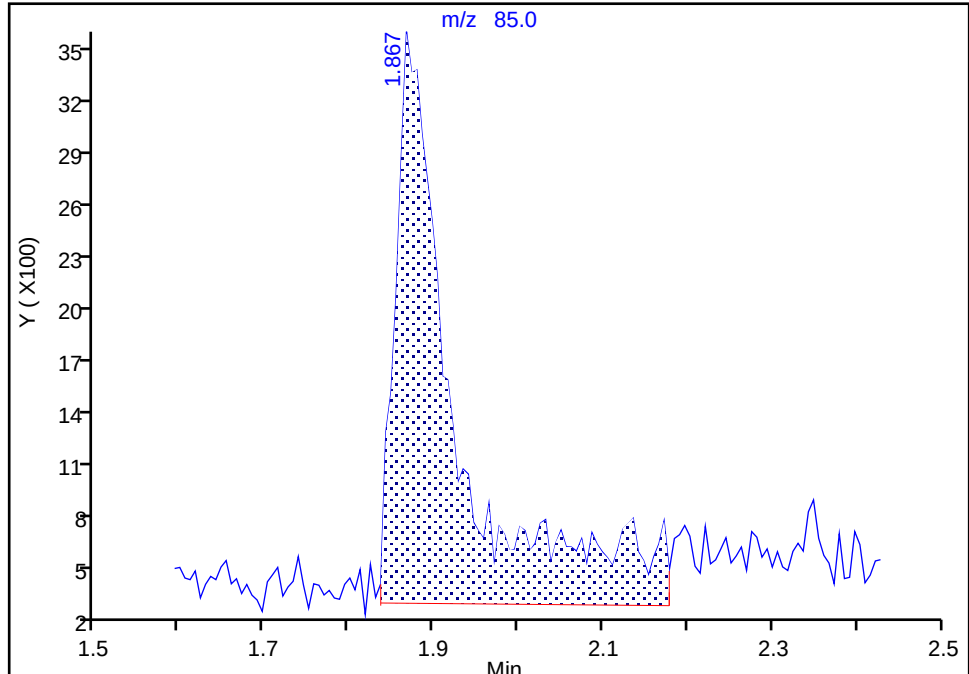
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X12.D
Injection Date: 17-Oct-2023 07:43:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: GAW91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

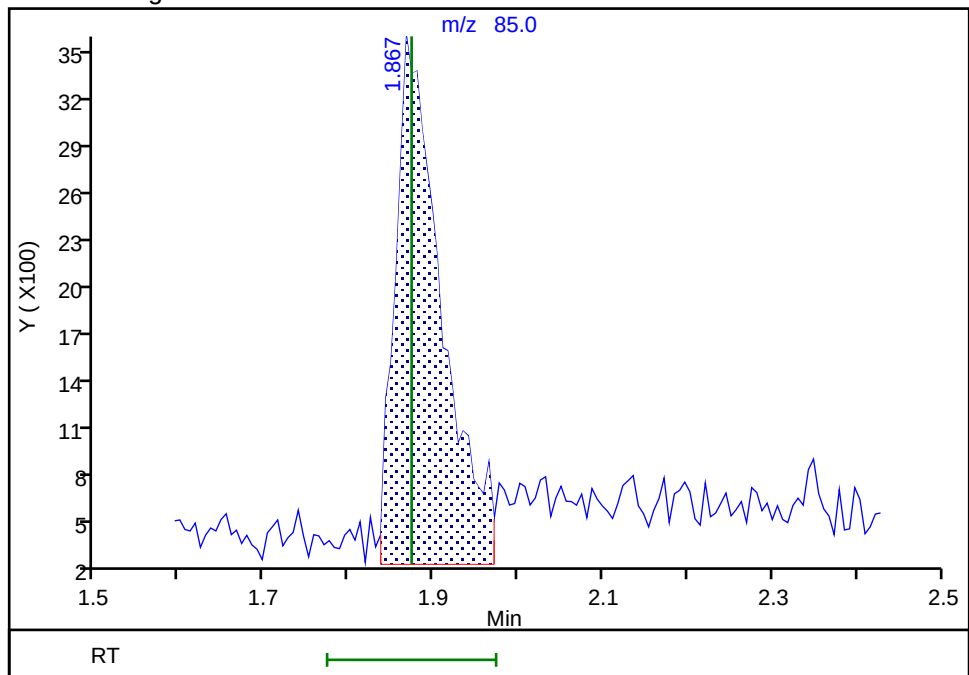
RT: 1.87
Area: 15814
Amount: 0.141287
Amount Units: ug/l

Processing Integration Results



RT: 1.87
Area: 12281
Amount: 0.240485
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 13:19:22 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

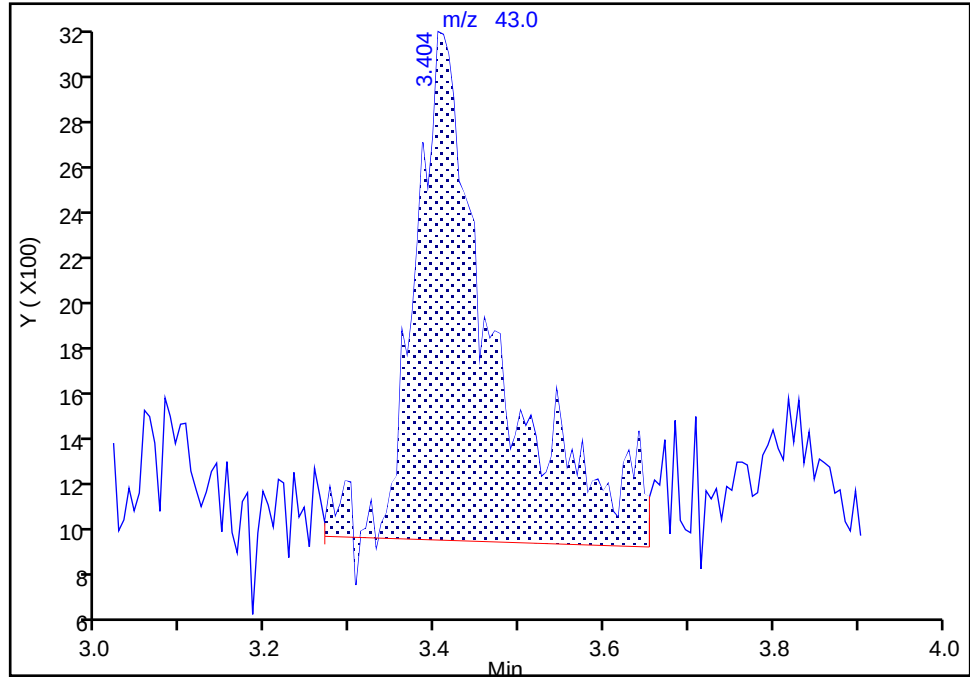
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Injection Date: 17-Oct-2023 07:43:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: GAW91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

19 Acetone, CAS: 67-64-1

Signal: 1

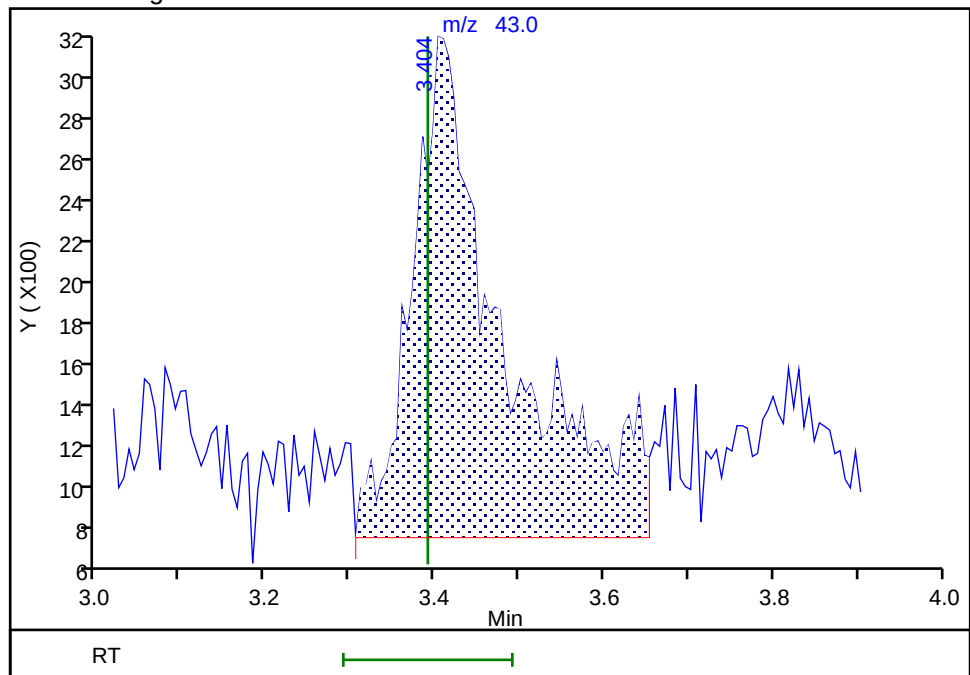
RT: 3.40
Area: 14086
Amount: 2.847889
Amount Units: ug/l

Processing Integration Results



RT: 3.40
Area: 17626
Amount: 3.857461
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:27:06 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

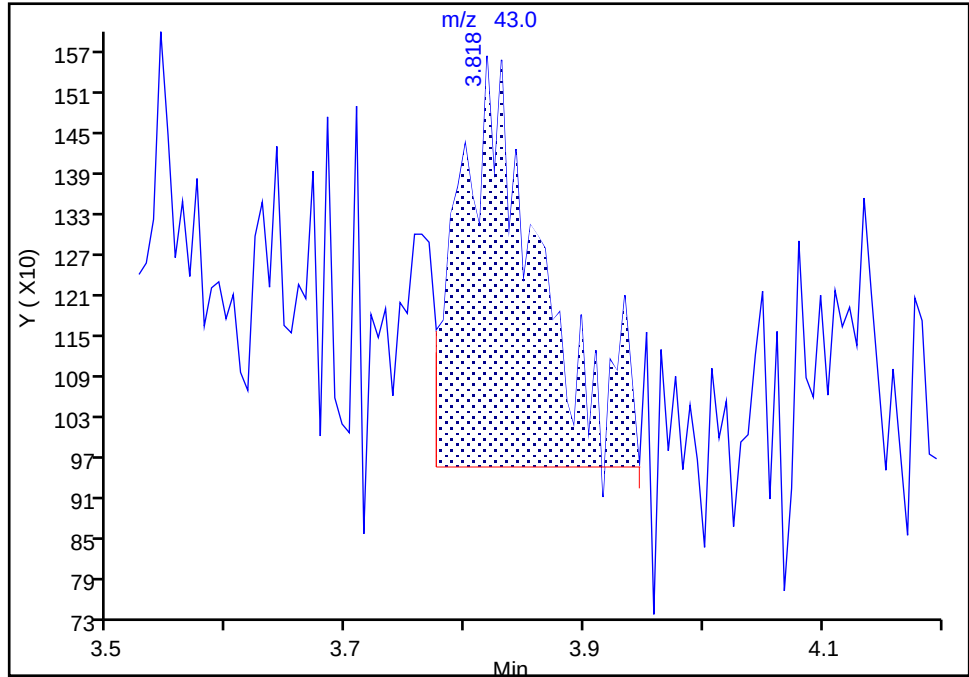
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X12.D
Injection Date: 17-Oct-2023 07:43:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: GAW91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

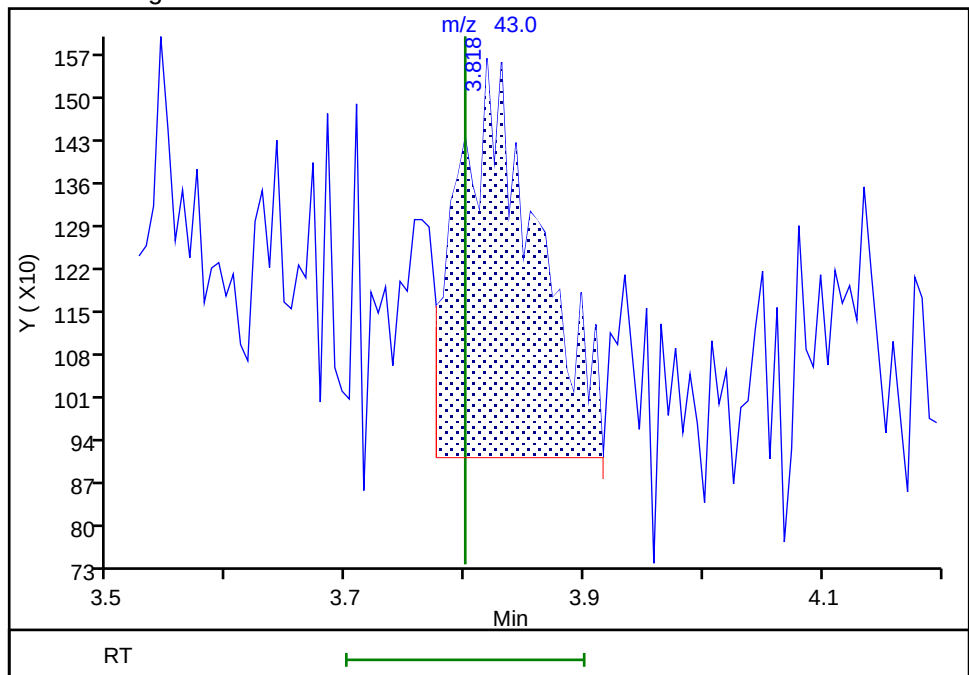
RT: 3.82
Area: 2886
Amount: 0.220541
Amount Units: ug/l

Processing Integration Results



RT: 3.82
Area: 3033
Amount: 0.227709
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:27:24 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

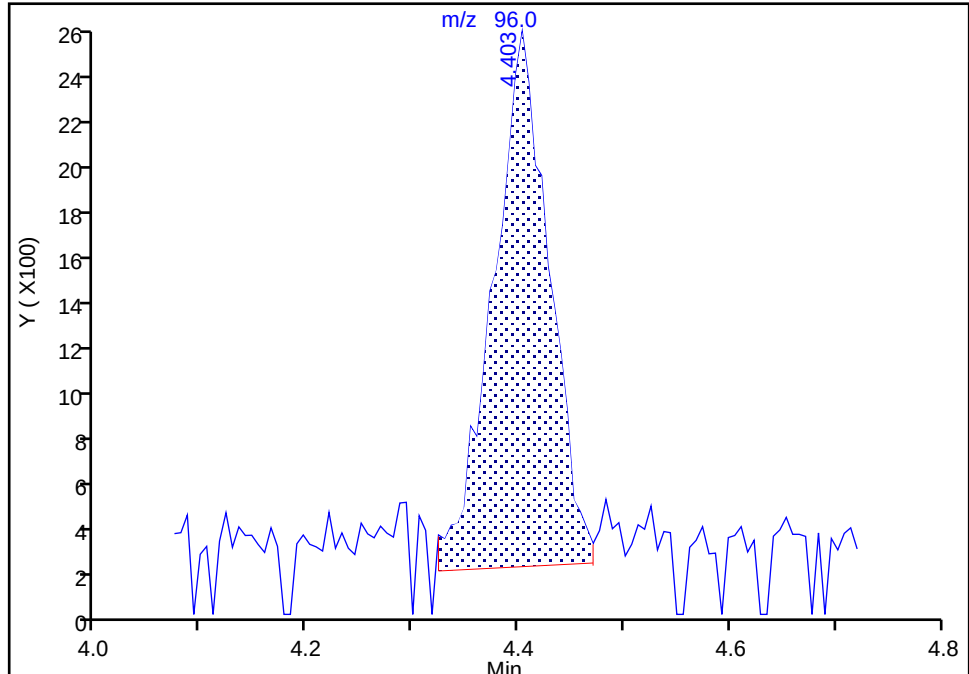
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X12.D
Injection Date: 17-Oct-2023 07:43:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: GAW91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

33 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

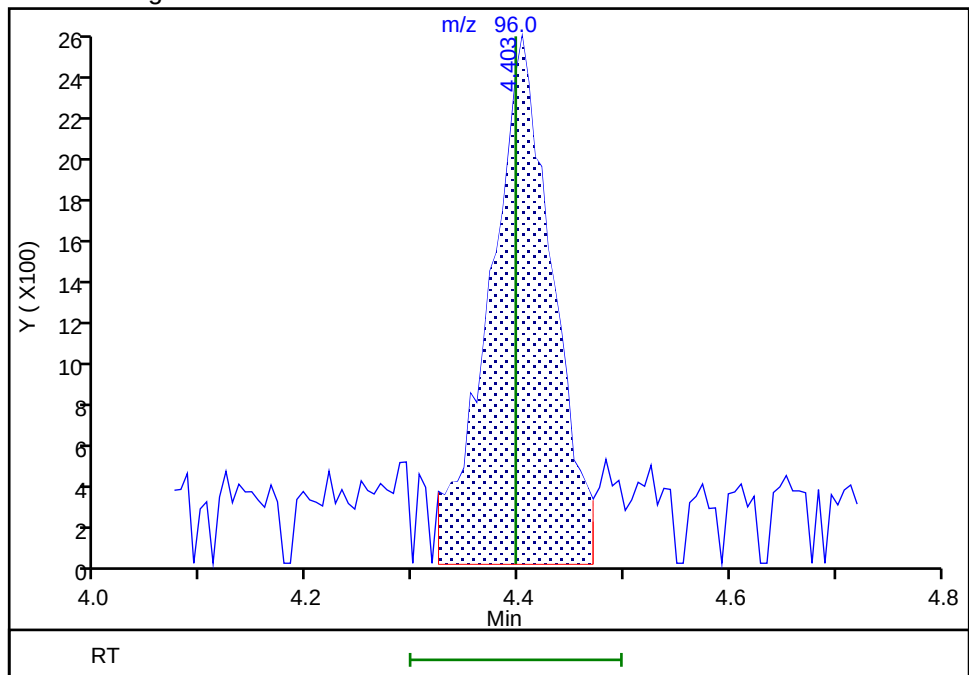
RT: 4.40
Area: 8512
Amount: 0.214009
Amount Units: ug/l

Processing Integration Results



RT: 4.40
Area: 10404
Amount: 0.253471
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:27:43 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

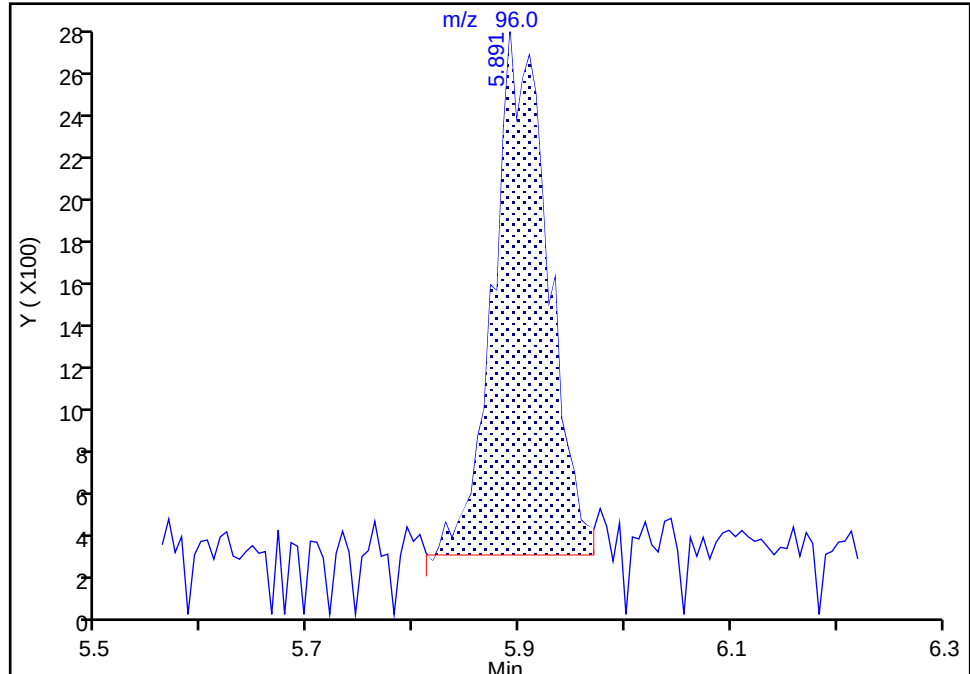
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Injection Date: 17-Oct-2023 07:43:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: GAW91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

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

Signal: 1

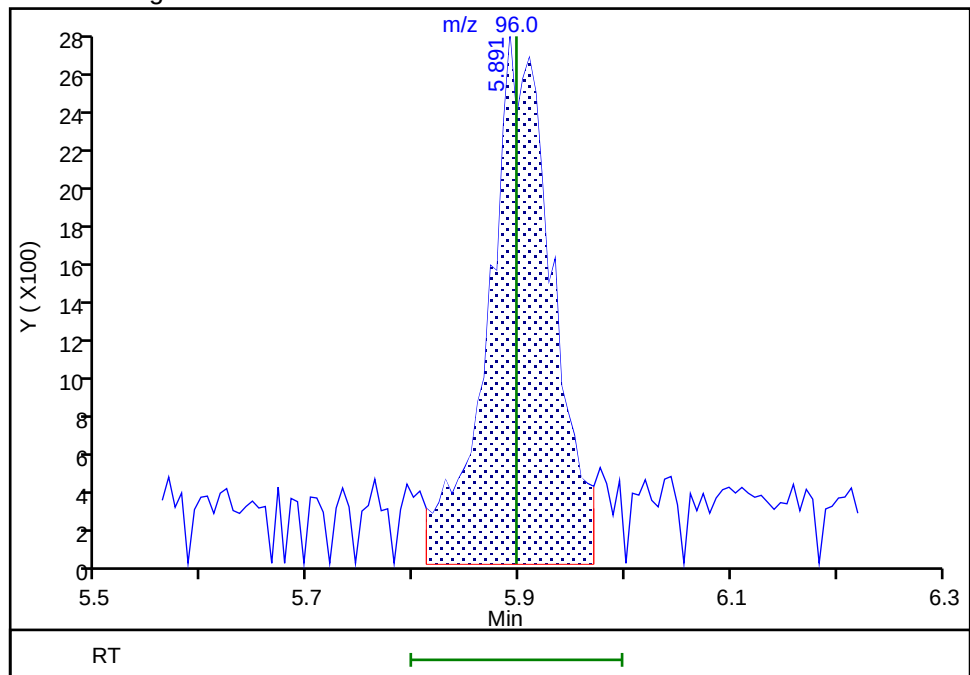
RT: 5.89
Area: 8739
Amount: 0.198438
Amount Units: ug/l

Processing Integration Results



RT: 5.89
Area: 11553
Amount: 0.250886
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:27:56 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

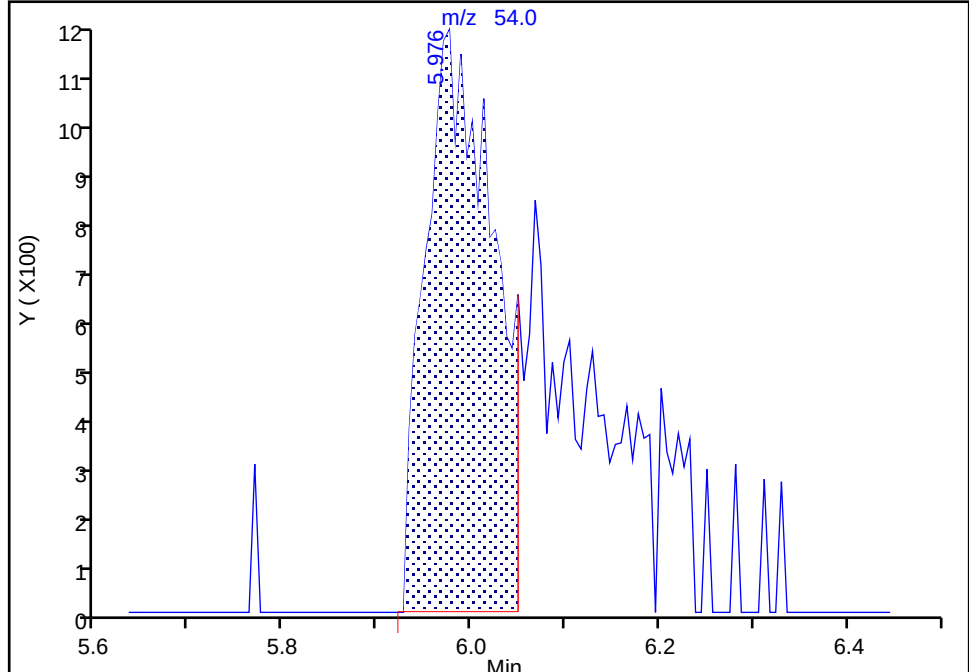
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X12.D
Injection Date: 17-Oct-2023 07:43:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: GAW91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

44 Propionitrile, CAS: 107-12-0

Signal: 1

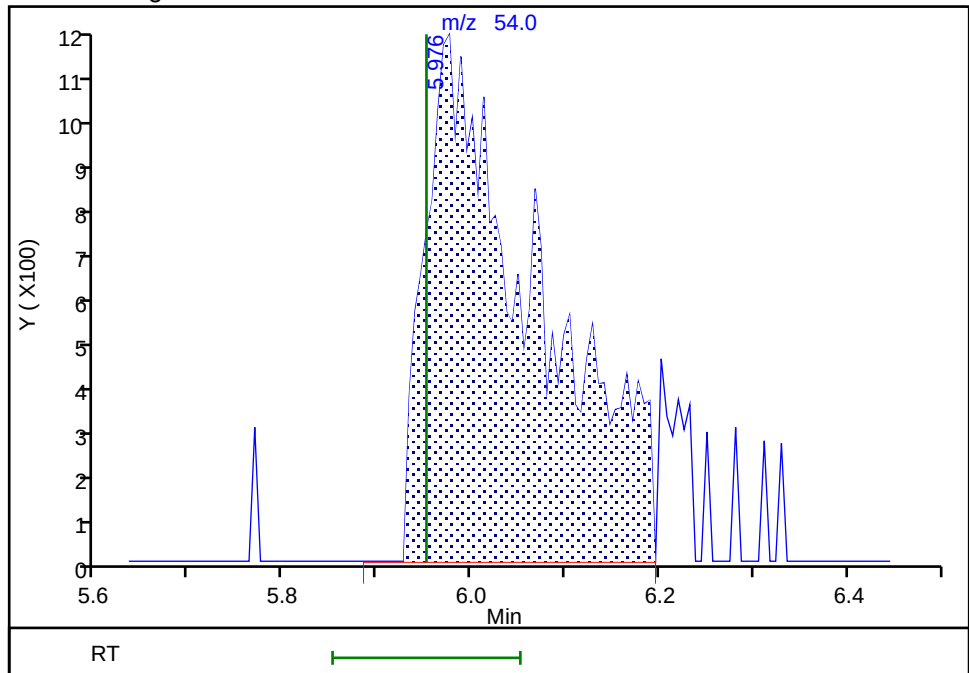
RT: 5.98
Area: 5665
Amount: 3.062458
Amount Units: ug/l

Processing Integration Results



RT: 5.98
Area: 9211
Amount: 4.426781
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:28:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

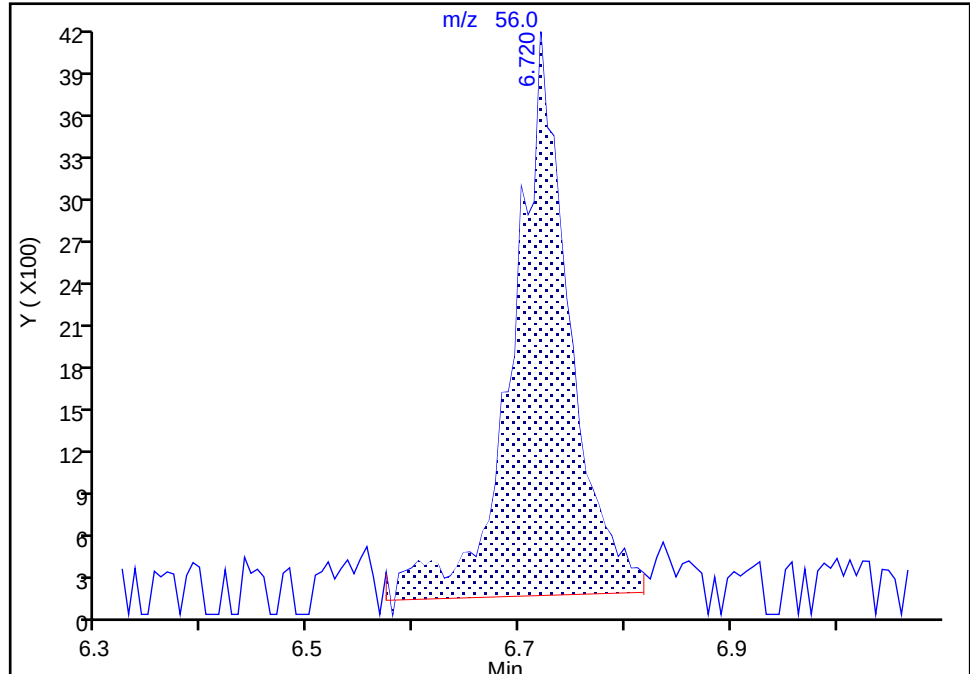
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X12.D
Injection Date: 17-Oct-2023 07:43:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: GAW91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

54 Cyclohexane, CAS: 110-82-7

Signal: 1

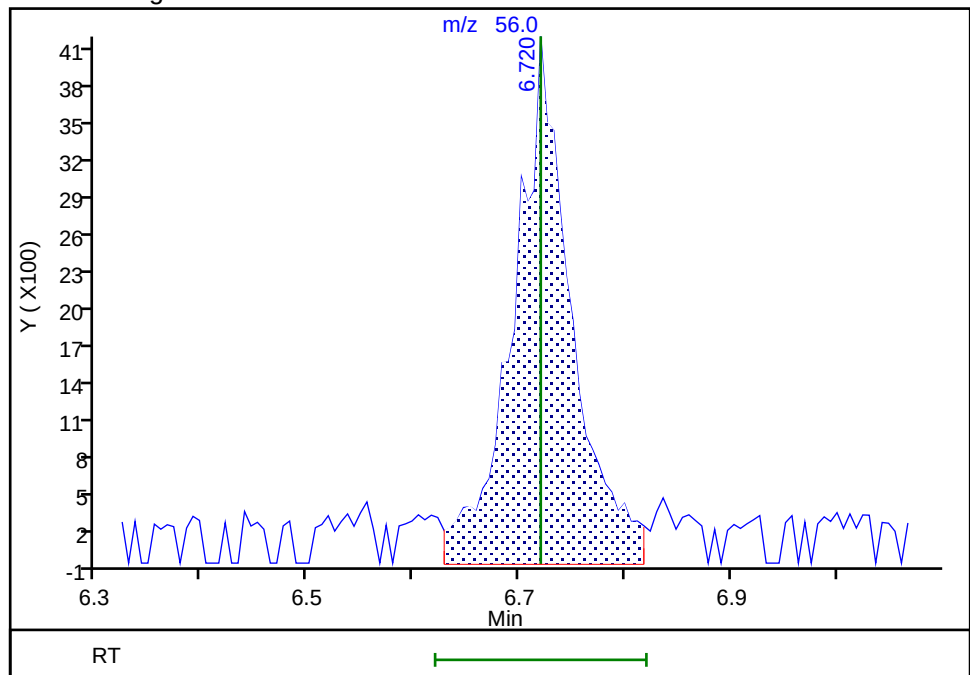
RT: 6.72
Area: 14775
Amount: 0.233129
Amount Units: ug/l

Processing Integration Results



RT: 6.72
Area: 15741
Amount: 0.245697
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:28:26 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

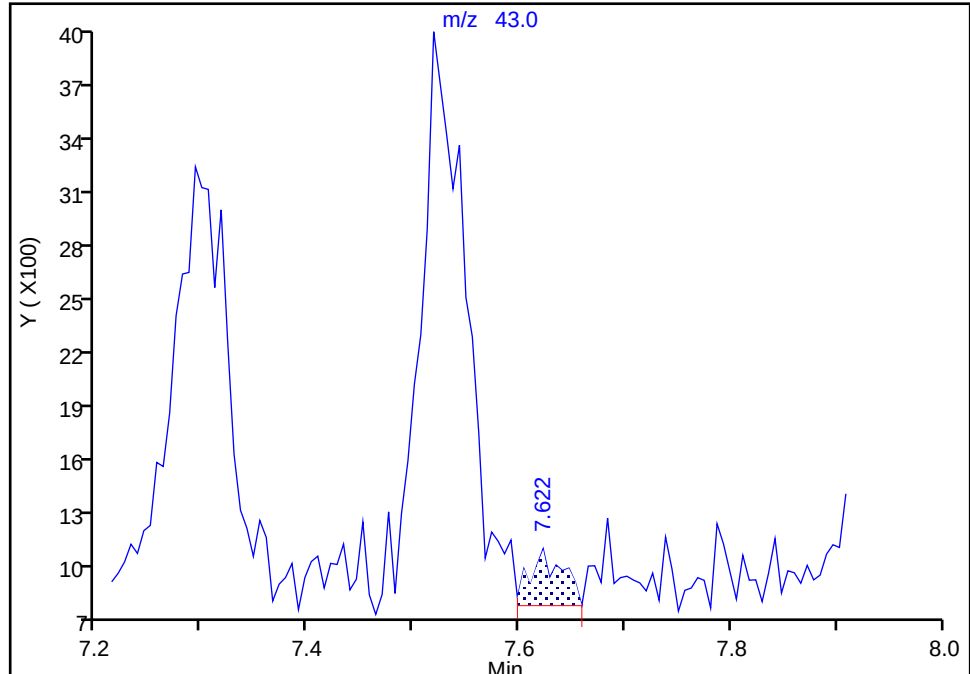
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X12.D
Injection Date: 17-Oct-2023 07:43:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: GAW91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

65 n-Heptane, CAS: 142-82-5

Signal: 1

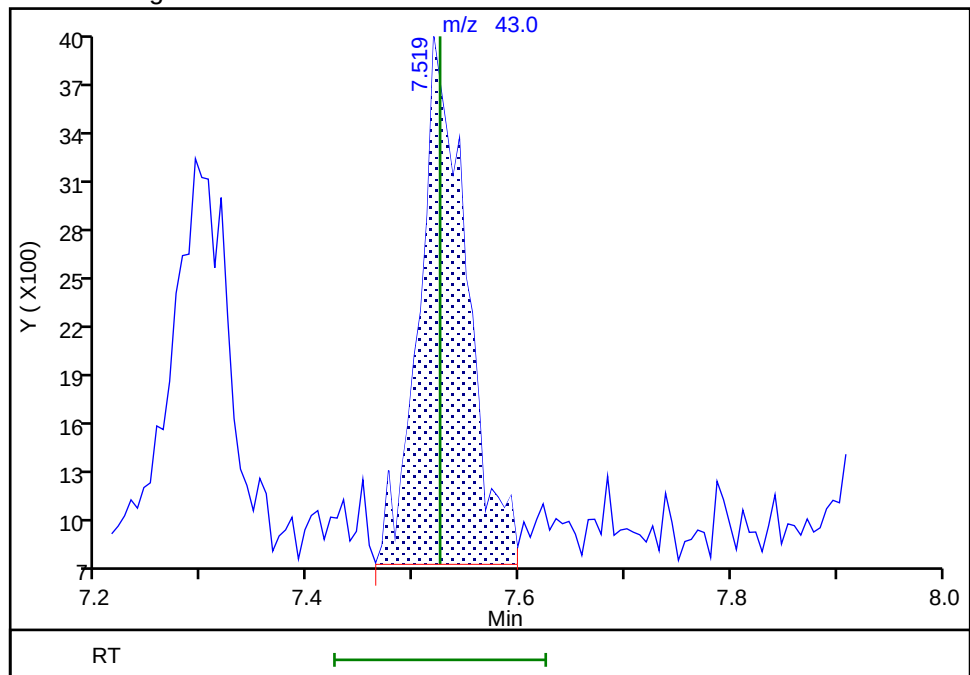
RT: 7.62
Area: 658
Amount: 0.139795
Amount Units: ug/l

Processing Integration Results



RT: 7.52
Area: 9956
Amount: 0.226495
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:28:36 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

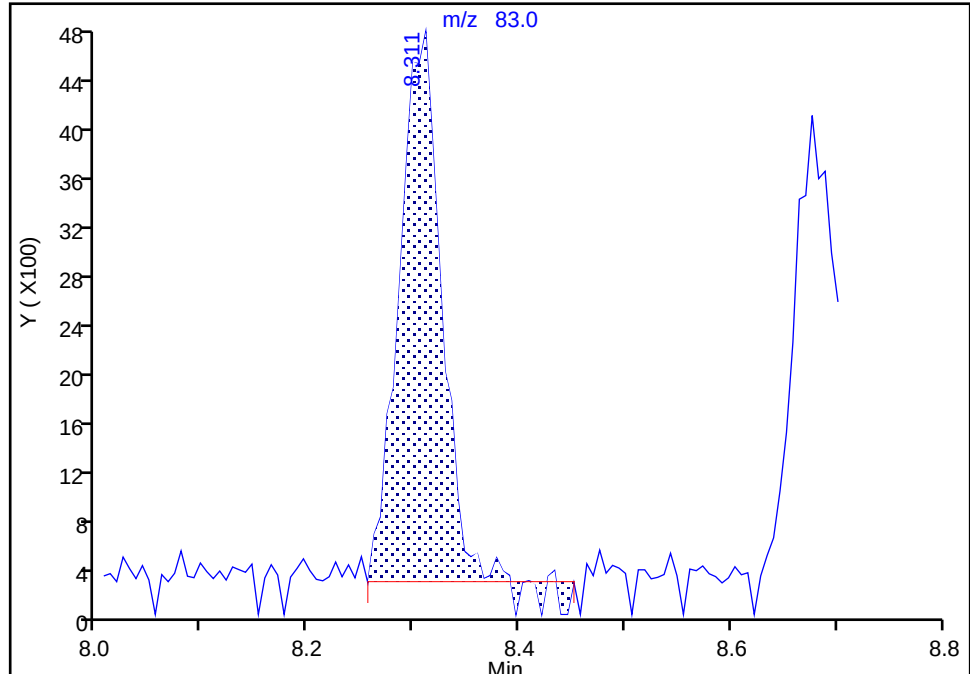
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X12.D
Injection Date: 17-Oct-2023 07:43:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: GAW91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

69 Methylcyclohexane, CAS: 108-87-2

Signal: 1

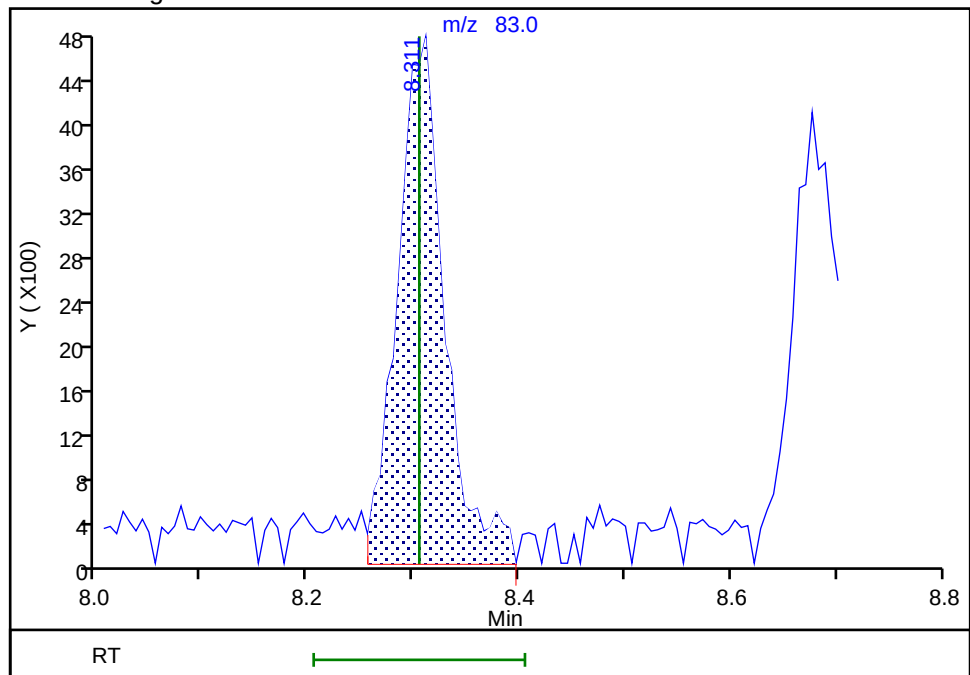
RT: 8.31
Area: 12130
Amount: 0.198040
Amount Units: ug/l

Processing Integration Results



RT: 8.31
Area: 14596
Amount: 0.231639
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:28:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

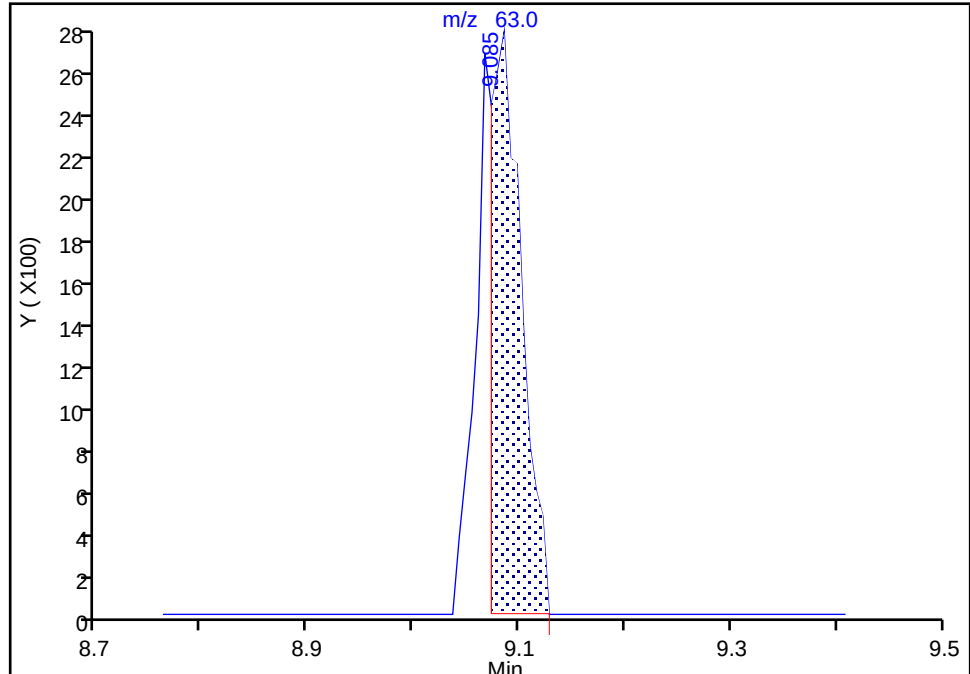
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X12.D
Injection Date: 17-Oct-2023 07:43:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: GAW91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

79 1-Bromo-2-chloroethane, CAS: 107-04-0

Signal: 1

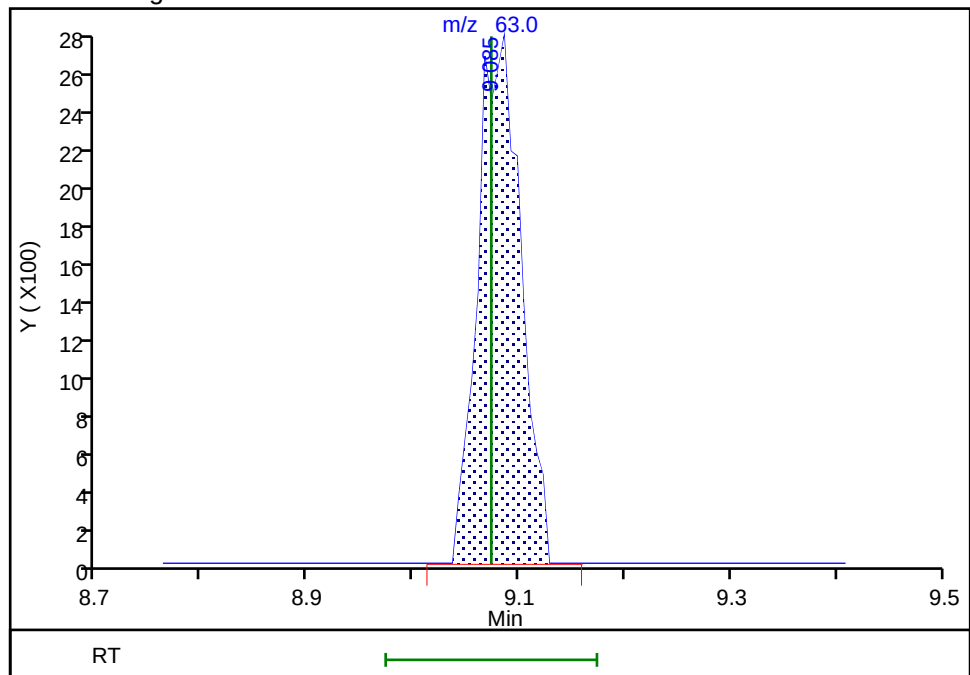
RT: 9.09
Area: 5651
Amount: 0.147841
Amount Units: ug/l

Processing Integration Results



RT: 9.09
Area: 7898
Amount: 0.198300
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:29:03 -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\20231016-96799.b\HO16X13.D
 Lims ID: IC std2 0.5
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 17-Oct-2023 08:03:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0096799-014
 Operator ID: GAW91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 20-Oct-2023 13:24:59 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: DVW2

Date: 18-Oct-2023 08:32:57

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	1.873	0.000	99	27445	0.5000	0.5361	M
5 Chloromethane	50	2.056	2.056	0.000	99	29218	0.5000	0.5198	
6 Vinyl chloride	62	2.172	2.172	0.000	80	29242	0.5000	0.5423	
7 Butadiene	39	2.178	2.178	0.000	95	34392	0.5000	0.5881	
9 Bromomethane	94	2.483	2.483	0.000	91	21283	0.5000	0.5544	
10 Chloroethane	64	2.562	2.562	0.000	99	16732	0.5000	0.5376	
11 Dichlorofluoromethane	67	2.788	2.788	0.000	97	47810	0.5000	0.5555	
12 Trichlorofluoromethane	101	2.861	2.855	0.006	95	35185	0.5000	0.5453	
14 Ethyl ether	59	3.087	3.080	0.007	90	15760	0.5001	0.5293	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.147	3.160	-0.013	92	25749	0.5000	0.5561	
16 Acrolein	56	3.239	3.239	0.000	99	91320	25.0	24.8	
17 1,1-Dichloroethene	96	3.373	3.373	0.000	98	18171	0.5000	0.5018	
19 Acetone	43	3.416	3.391	0.025	95	25201	5.00	5.55	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.422	3.416	0.006	90	16437	0.5000	0.4935	
21 Iodomethane	142	3.556	3.556	0.000	99	35135	0.5000	0.4912	
22 Ethyl bromide	108	3.586	3.580	0.006	96	16438	0.4995	0.5072	
23 Carbon disulfide	76	3.666	3.666	0.000	99	50315	0.5000	0.4991	
24 Methyl acetate	43	3.806	3.800	0.006	26	7223	0.5000	0.5455	M
26 3-Chloro-1-propene	41	3.812	3.818	-0.006	88	30721	0.5000	0.5071	
27 Methylene Chloride	84	3.995	3.995	0.000	93	20005	0.5000	0.5206	
* 28 t-Butyl alcohol-d10 (IS)	65	3.995	4.007	-0.012	96	75057	50.0	50.0	
29 2-Methyl-2-propanol	59	4.111	4.111	0.000	67	14400	10.0	10.7	
31 Acrylonitrile	53	4.336	4.312	0.024	89	7751	1.25	1.31	
32 Methyl tert-butyl ether	73	4.391	4.391	0.000	97	45429	0.5000	0.4976	
33 trans-1,2-Dichloroethene	96	4.403	4.397	0.006	97	20871	0.5000	0.5072	
34 Hexane	57	4.830	4.824	0.006	92	22187	0.5000	0.4970	
36 1,1-Dichloroethane	63	5.062	5.056	0.006	96	36905	0.5000	0.5038	
37 Isopropyl ether	45	5.123	5.123	0.000	95	59122	0.5000	0.4899	
38 2-Chloro-1,3-butadiene	53	5.165	5.172	-0.007	94	33494	0.5000	0.5057	
40 Tert-butyl ethyl ether	59	5.659	5.665	-0.006	98	59843	0.5000	0.5039	
41 2-Butanone (MEK)	43	5.885	5.873	0.012	99	34252	5.00	4.61	

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	5.903	5.897	0.006	85	24065	0.5000	0.5213	
43 2,2-Dichloropropane	77	5.915	5.909	0.006	89	33930	0.5000	0.4996	
44 Propionitrile	54	5.976	5.952	0.024	93	22121	10.0	10.7	M
S 46 1,2-Dichloroethene, Total	100				0			1.03	
47 Methacrylonitrile	67	6.177	6.171	0.006	93	39657	5.00	4.80	
48 Chlorobromomethane	128	6.232	6.232	0.000	77	9090	0.5000	0.4930	
49 Tetrahydrofuran	71	6.257	6.257	0.000	75	6840	2.50	2.87	M
50 Chloroform	83	6.391	6.385	0.006	95	37690	0.5000	0.4996	
\$ 52 Dibromofluoromethane (Surr)	113	6.604	6.604	0.000	93	437059	10.0	9.96	
53 1,1,1-Trichloroethane	97	6.616	6.616	0.000	39	36711	0.5000	0.5189	
54 Cyclohexane	56	6.720	6.720	0.000	92	34107	0.5000	0.5310	
56 Carbon tetrachloride	117	6.830	6.830	0.000	93	29764	0.5000	0.5025	
55 1,1-Dichloropropene	75	6.830	6.836	-0.006	91	28100	0.5000	0.4933	
57 Isobutyl alcohol	41	7.000	6.988	0.012	84	9104	25.0	21.4	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.061	7.061	0.000	81	81768	10.0	9.88	
59 Benzene	78	7.098	7.098	0.000	96	81541	0.5000	0.4934	
60 1,2-Dichloroethane	62	7.177	7.171	0.006	96	24468	0.5000	0.5083	
63 Tert-amyl methyl ether	73	7.299	7.299	0.000	97	49389	0.5000	0.4905	
* 64 Fluorobenzene (IS)	96	7.506	7.506	0.000	98	1732238	10.0	10.0	
65 n-Heptane	43	7.519	7.525	-0.006	87	22688	0.5000	0.5149	
67 n-Butanol	56	7.909	7.891	0.019	92	17916	43.8	52.9	
68 Trichloroethene	95	7.994	8.000	-0.006	96	22875	0.5000	0.4906	
69 Methylcyclohexane	83	8.299	8.305	-0.006	91	31168	0.5000	0.4934	
70 1,2-Dichloropropane	63	8.329	8.329	0.000	91	20116	0.5000	0.4949	
71 2-ethoxy-2-methyl butane	87	8.348	8.342	0.006	92	31878	0.5000	0.4909	
72 Methyl methacrylate	69	8.433	8.421	0.012	89	9025	0.5000	0.5322	
73 1,4-Dioxane	88	8.439	8.433	0.006	29	235	25.0	25.3	M
74 Dibromomethane	93	8.451	8.439	0.012	92	9357	0.5000	0.4752	
76 Dichlorobromomethane	83	8.683	8.677	0.006	97	25898	0.5000	0.4778	
77 2-Nitropropane	41	8.951	8.939	0.012	98	12816	2.50	2.23	
79 1-Bromo-2-chloroethane	63	9.073	9.073	0.000	98	19521	0.5000	0.4889	
80 cis-1,3-Dichloropropene	75	9.244	9.238	0.006	93	29612	0.5000	0.4695	
82 4-Methyl-2-pentanone (MIBK)	43	9.421	9.421	0.000	97	107243	5.00	5.13	
\$ 83 Toluene-d8 (Surr)	98	9.561	9.561	0.000	94	1731261	10.0	10.0	
84 Toluene	92	9.640	9.640	0.000	98	53186	0.5000	0.4941	
85 trans-1,3-Dichloropropene	75	9.908	9.902	0.006	96	24935	0.5000	0.4819	
104 Ethyl methacrylate	69	9.975	9.975	0.000	88	18481	0.5000	0.4813	
S 105 1,3-Dichloropropene, Total	100				0			0.9514	
106 1,1,2-Trichloroethane	97	10.116	10.116	0.000	91	12757	0.5000	0.4707	
107 Tetrachloroethene	166	10.201	10.201	0.000	98	25588	0.5000	0.4975	
108 1,3-Dichloropropane	76	10.280	10.280	0.000	93	22586	0.5000	0.4864	
109 2-Hexanone	43	10.335	10.335	0.000	97	68798	5.00	4.94	
111 Chlorodibromomethane	129	10.500	10.500	0.000	91	17364	0.5000	0.4804	
112 Ethylene Dibromide	107	10.609	10.609	0.000	99	13173	0.5000	0.5042	
* 113 Chlorobenzene-d5 (IS)	117	11.048	11.048	0.000	87	1303431	10.0	10.0	
114 1-Chlorohexane	91	11.061	11.061	0.000	95	32597	0.5000	0.5303	
115 Chlorobenzene	112	11.073	11.073	0.000	97	59000	0.5000	0.5029	
116 1,1,1,2-Tetrachloroethane	131	11.158	11.158	0.000	94	20693	0.5000	0.4839	
117 Ethylbenzene	91	11.164	11.164	0.000	99	104124	0.5000	0.4966	
S 118 Xylenes, Total	106				0			1.46	
119 m-Xylene & p-Xylene	106	11.280	11.280	0.000	100	78826	1.00	0.9732	
120 o-Xylene	106	11.615	11.609	0.006	97	38877	0.5000	0.4895	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 Styrene	104	11.628	11.628	0.000	95	61427	0.5000	0.4783	
122 Bromoform	173	11.786	11.786	0.000	96	11238	0.5000	0.4934	
123 Isopropylbenzene	105	11.914	11.914	0.000	96	95314	0.5000	0.4890	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	91	645602	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.164	12.164	0.000	93	17830	0.5000	0.5334	M
128 Bromobenzene	156	12.176	12.176	0.000	96	24978	0.5000	0.5014	
129 trans-1,4-Dichloro-2-butene	53	12.188	12.188	0.000	96	41410	5.00	4.85	
130 1,2,3-Trichloropropane	110	12.207	12.207	0.000	79	4295	0.5000	0.4808	
131 N-Propylbenzene	91	12.249	12.249	0.000	99	115224	0.5000	0.4879	
132 2-Chlorotoluene	126	12.323	12.323	0.000	96	24346	0.5000	0.4923	
133 1,3,5-Trimethylbenzene	105	12.383	12.384	-0.001	94	84362	0.5000	0.4930	
134 4-Chlorotoluene	126	12.420	12.414	0.006	97	24775	0.5000	0.4905	
135 tert-Butylbenzene	134	12.627	12.627	0.000	93	19375	0.5000	0.4961	
136 Pentachloroethane	167	12.658	12.658	0.000	90	15094	0.5000	0.4740	
137 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	98	84884	0.5000	0.4906	
138 sec-Butylbenzene	105	12.792	12.792	0.000	95	101163	0.5000	0.4853	
139 1,3-Dichlorobenzene	146	12.889	12.890	-0.001	98	46000	0.5000	0.4817	
140 4-Isopropyltoluene	119	12.902	12.902	0.000	97	89272	0.5000	0.4863	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	730485	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	47649	0.5000	0.4946	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	98	38052	0.5000	0.4930	
144 Benzyl chloride	126	13.042	13.042	0.000	99	6418	0.5000	0.4598	
145 p-Diethylbenzene	119	13.176	13.170	0.006	95	50522	0.5000	0.4742	
146 n-Butylbenzene	92	13.194	13.194	0.000	97	40332	0.5000	0.4842	
147 1,2-Dichlorobenzene	146	13.225	13.225	0.000	97	42105	0.5000	0.4911	
149 1,2-Dibromo-3-Chloropropane	155	13.767	13.767	0.000	85	2012	0.5000	0.4555	
150 1,3,5-Trichlorobenzene	180	13.895	13.895	0.000	97	30689	0.5000	0.4767	
151 1,2,4-Trichlorobenzene	180	14.316	14.316	0.000	94	22105	0.5000	0.4438	
152 Hexachlorobutadiene	225	14.401	14.401	0.000	96	9472	0.5000	0.4908	
153 Naphthalene	128	14.499	14.493	0.006	97	35396	0.5000	0.4478	
154 1,2,3-Trichlorobenzene	180	14.639	14.639	0.000	94	16044	0.5000	0.4528	
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_00099

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00174

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00108

Amount Added: 2.00

Units: uL

MSV_LLcentISS_00009

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 20-Oct-2023 13:25:00

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X13.D

Injection Date: 17-Oct-2023 08:03:30

Instrument ID: 19094

Operator ID: GAW91131

Lims ID: IC std2 0.5

Worklist Smp#: 14

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

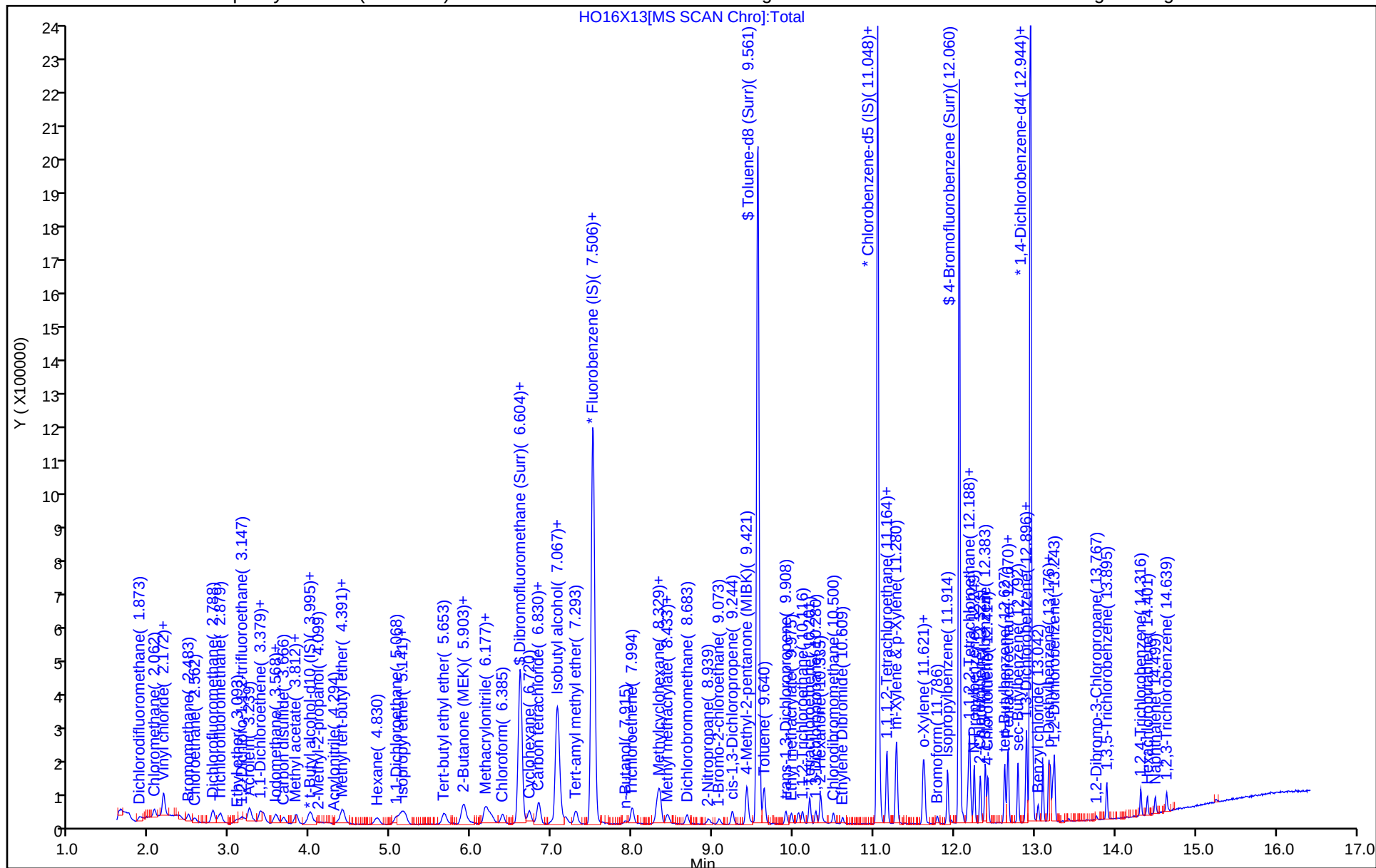
ALS Bottle#: 13

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



4/2/2024

4:19:02 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

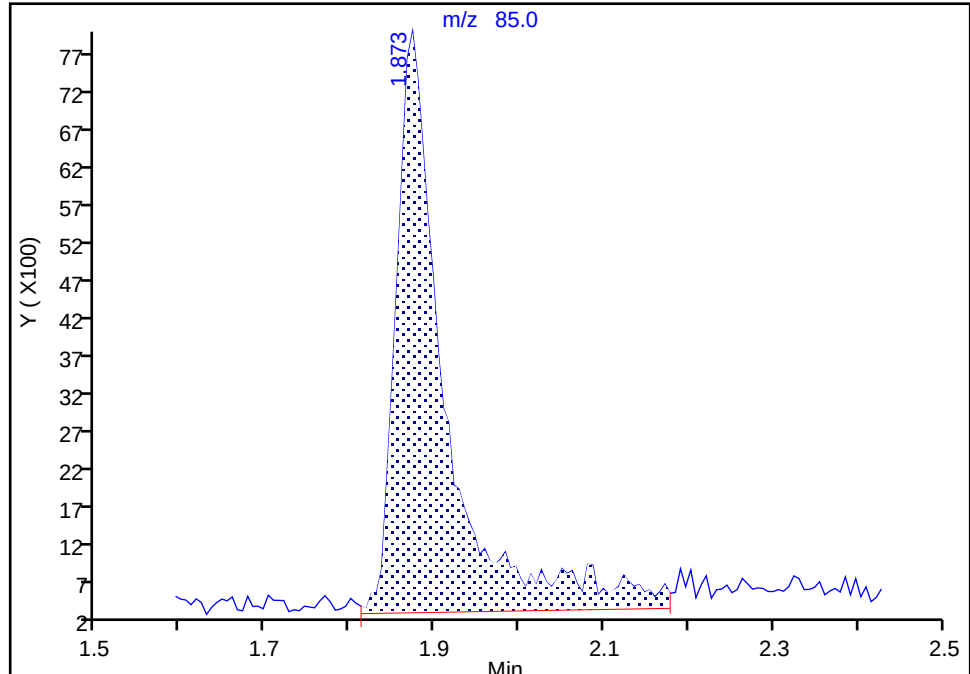
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Injection Date: 17-Oct-2023 08:03:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: GAW91131 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

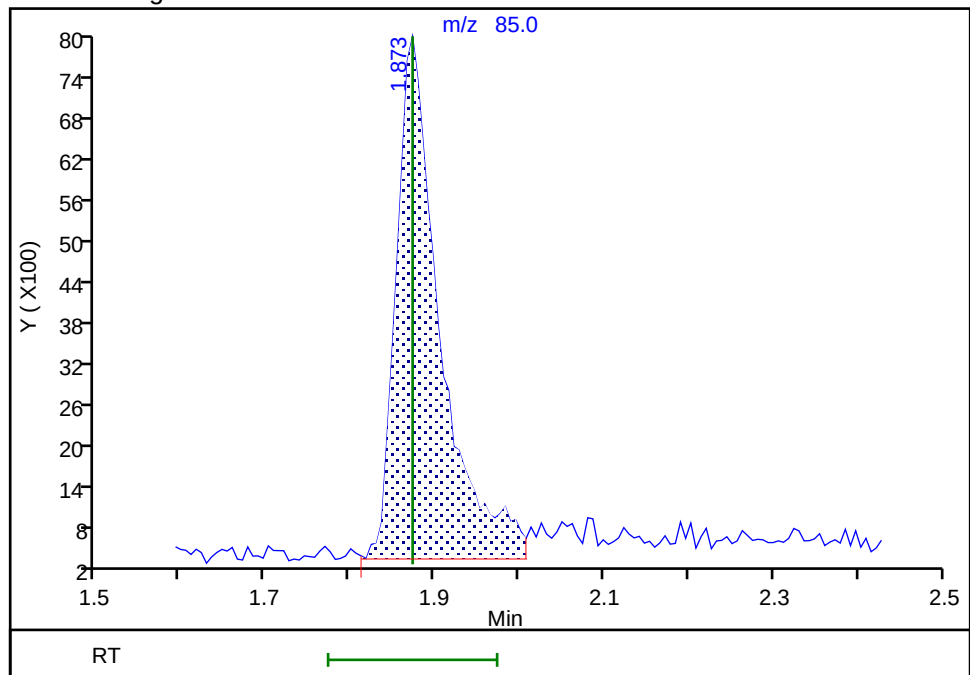
RT: 1.87
Area: 31199
Amount: 0.587091
Amount Units: ug/l

Processing Integration Results



RT: 1.87
Area: 27445
Amount: 0.536093
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:30:03 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

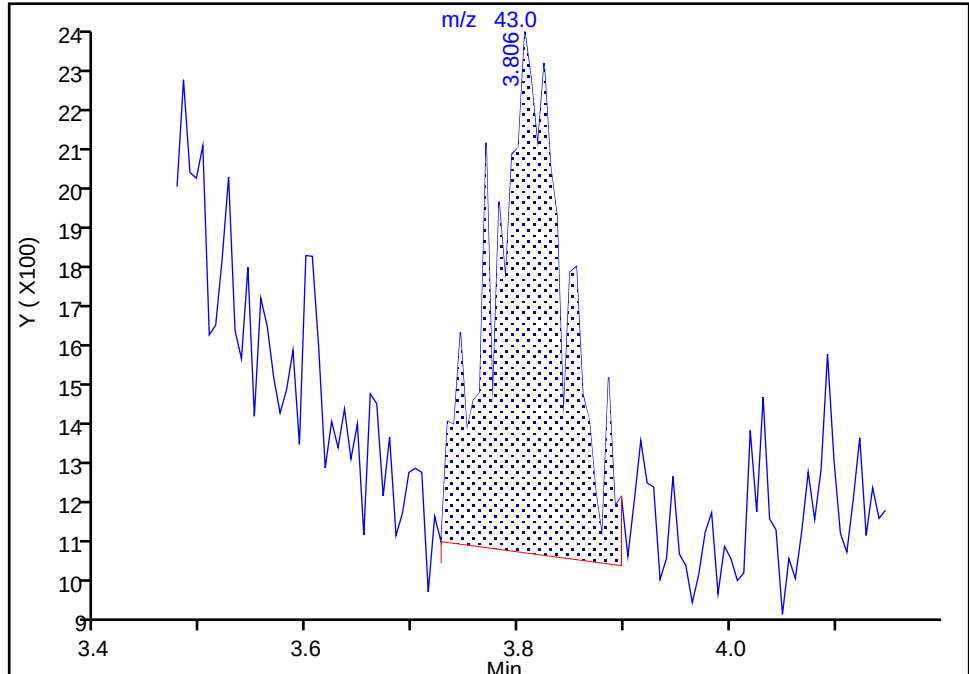
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Injection Date: 17-Oct-2023 08:03:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: GAW91131 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

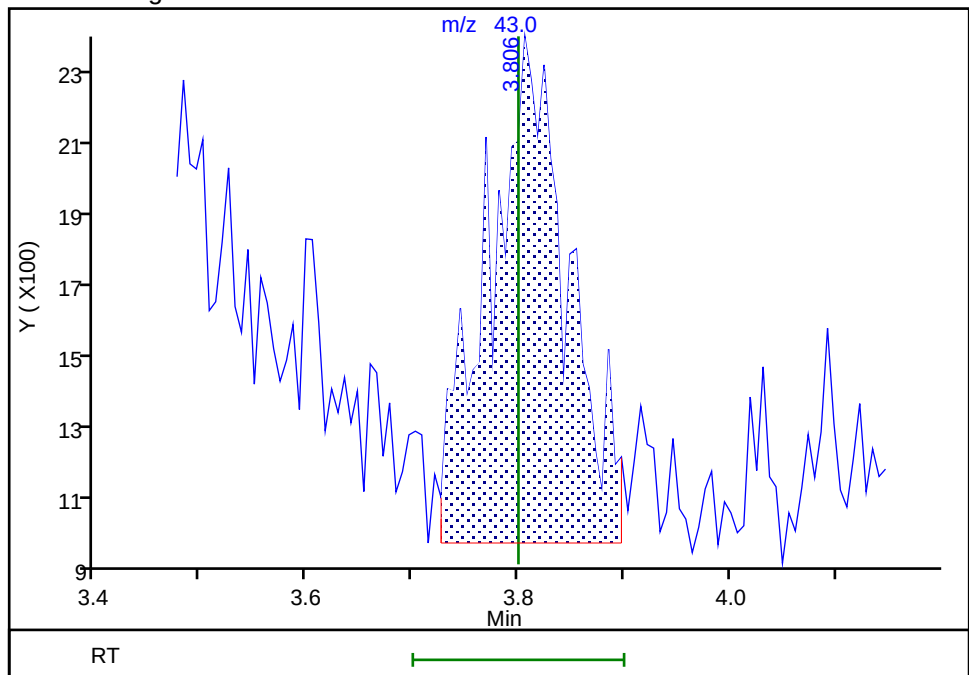
RT: 3.81
Area: 6194
Amount: 0.472340
Amount Units: ug/l

Processing Integration Results



RT: 3.81
Area: 7223
Amount: 0.545490
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:31:07 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

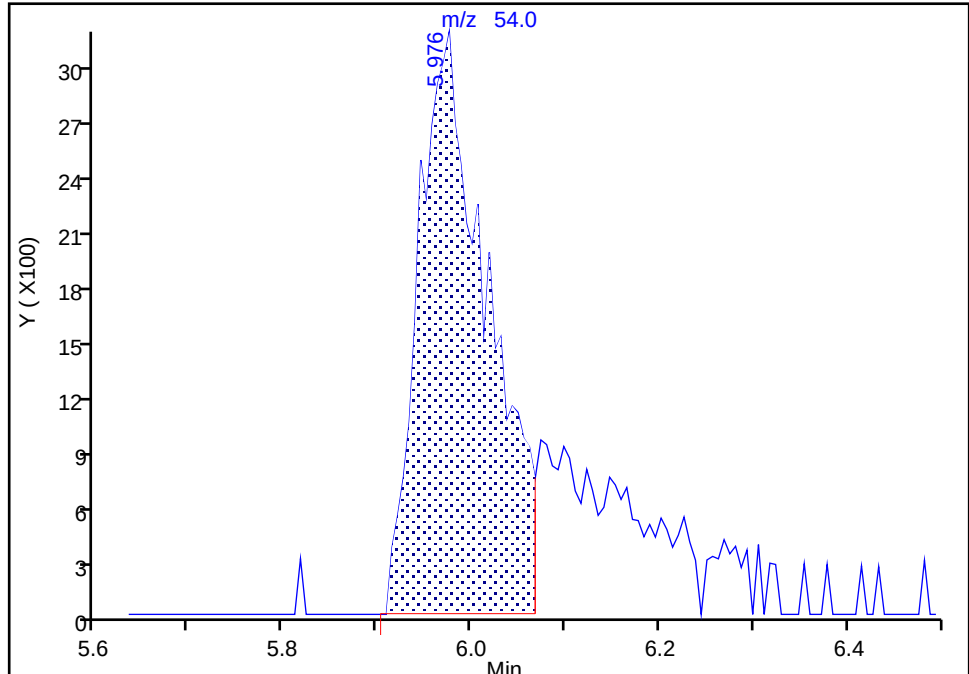
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Injection Date: 17-Oct-2023 08:03:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: GAW91131 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 Propionitrile, CAS: 107-12-0

Signal: 1

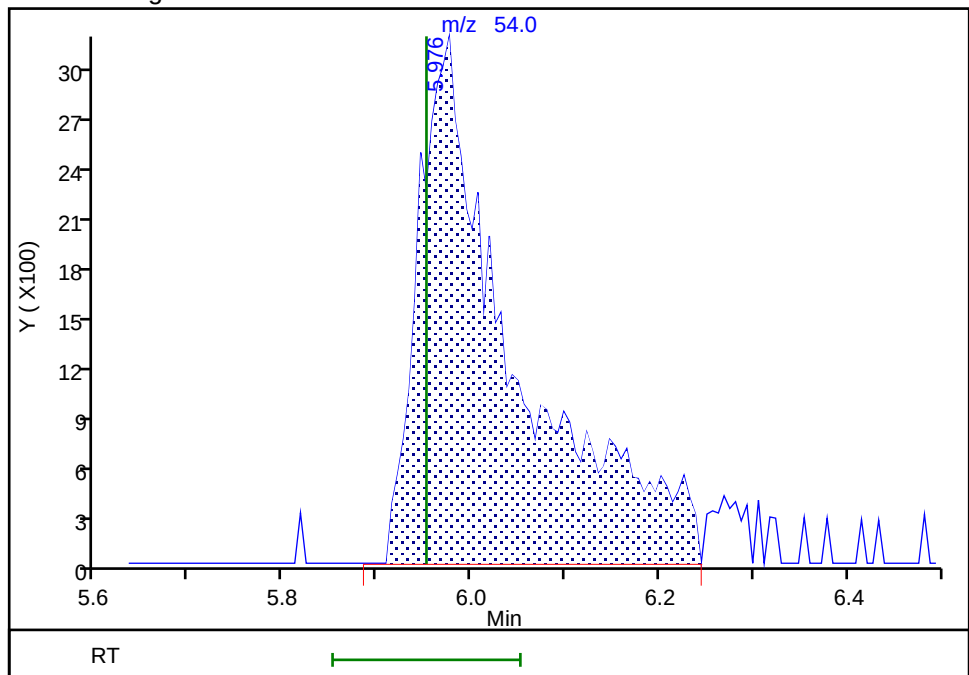
RT: 5.98
Area: 15950
Amount: 8.117704
Amount Units: ug/l

Processing Integration Results



RT: 5.98
Area: 22121
Amount: 10.694180
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:31:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

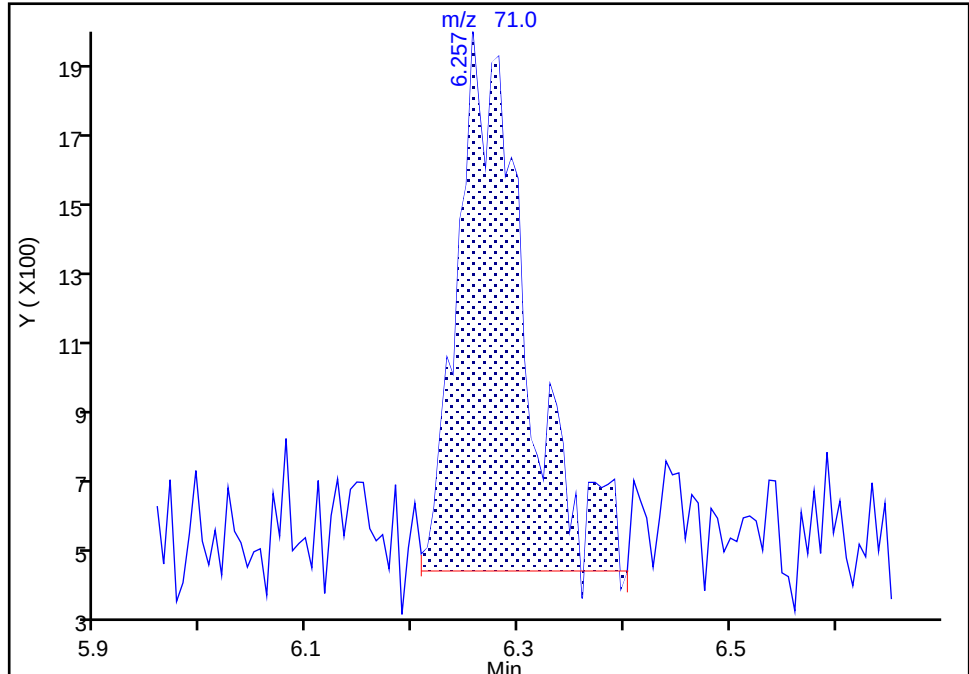
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Injection Date: 17-Oct-2023 08:03:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: GAW91131 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

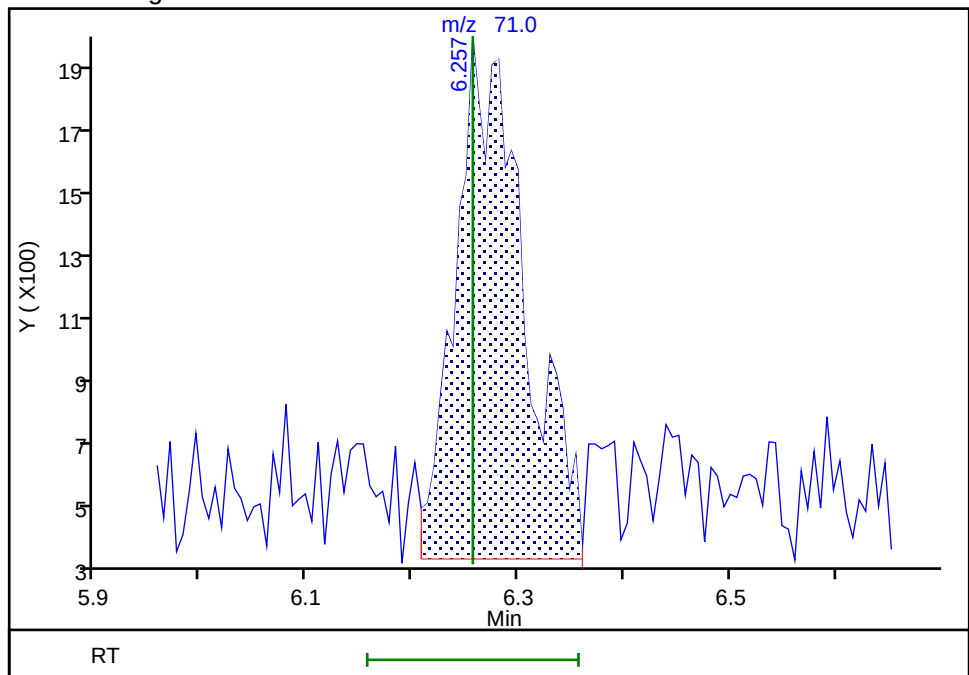
RT: 6.26
Area: 6238
Amount: 2.668278
Amount Units: ug/l

Processing Integration Results



RT: 6.26
Area: 6840
Amount: 2.870740
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:31:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

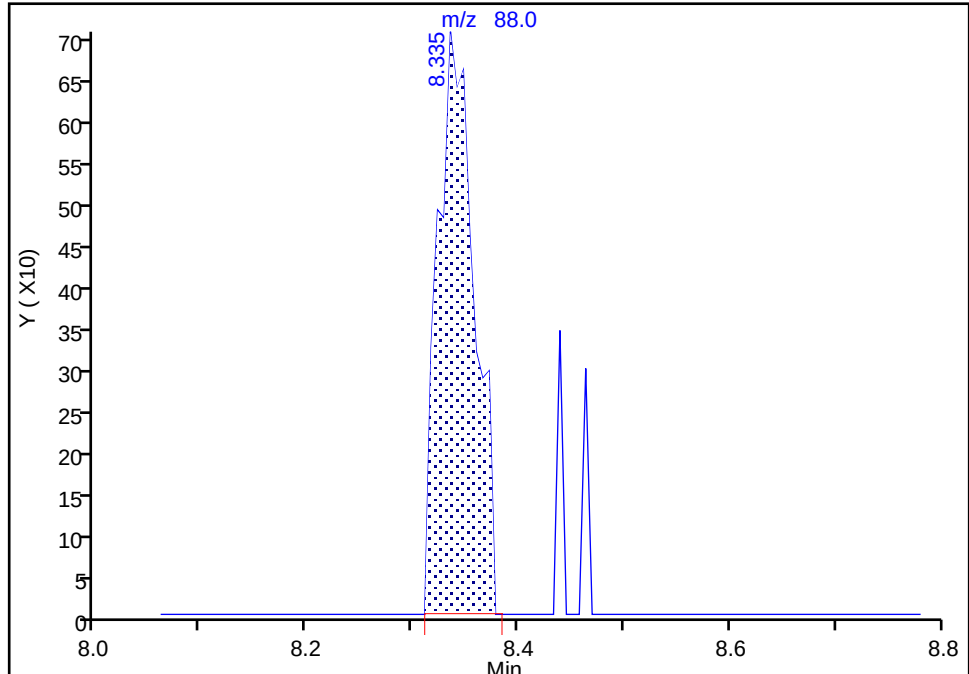
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Injection Date: 17-Oct-2023 08:03:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: GAW91131 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

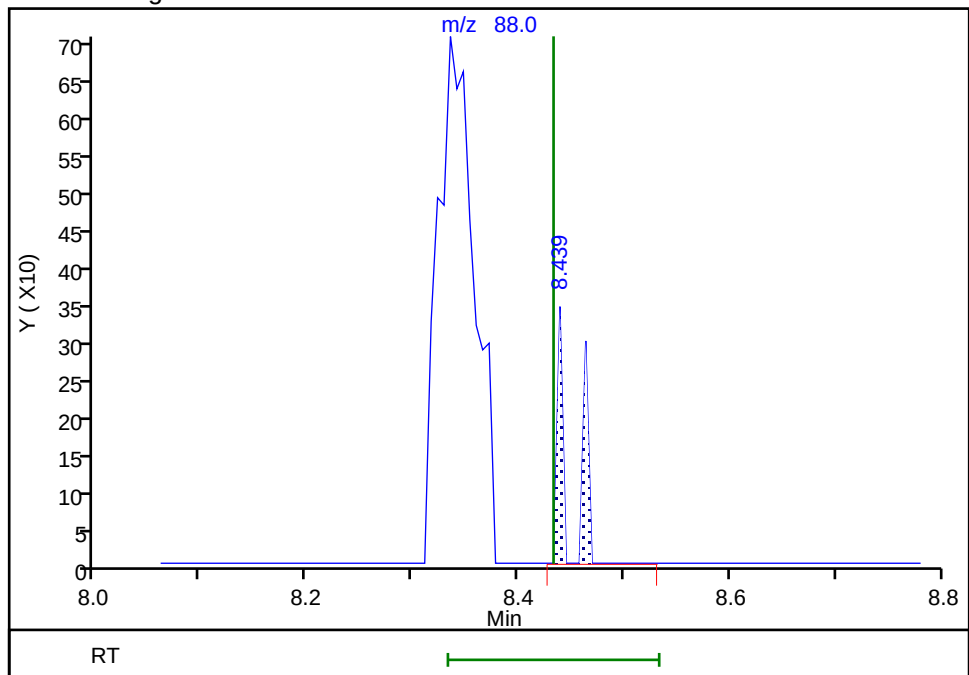
RT: 8.34
Area: 1703
Amount: 25.939331
Amount Units: ug/l

Processing Integration Results



RT: 8.44
Area: 235
Amount: 25.296195
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:32:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

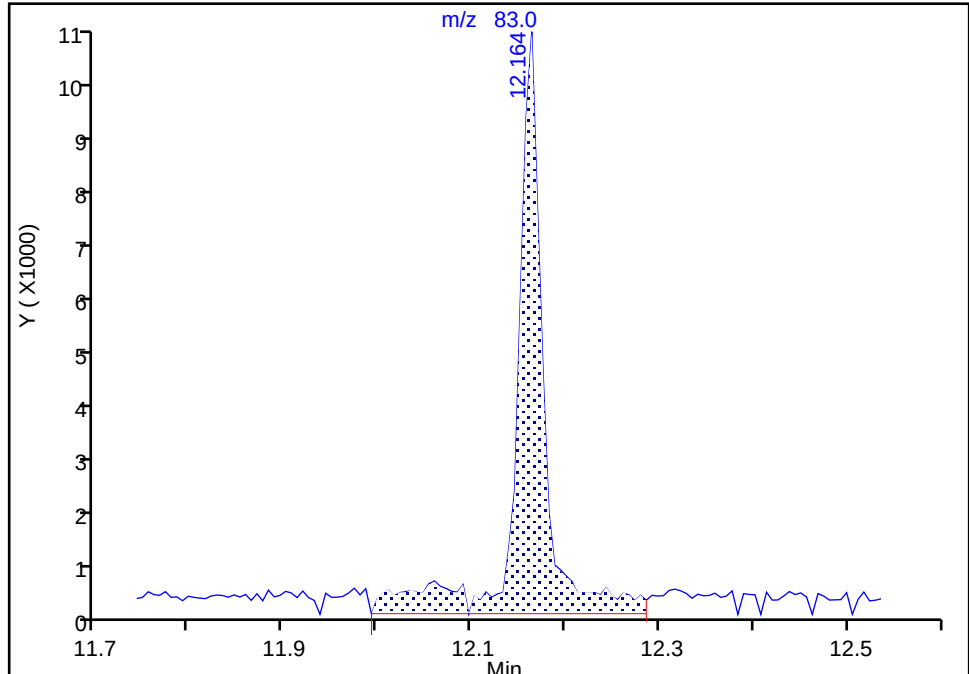
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X13.D
Injection Date: 17-Oct-2023 08:03:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: GAW91131 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 ID) Detector: MS Quad

127 1,1,2,2-Tetrachloroethane, CAS: 79-34-5
Signal: 1

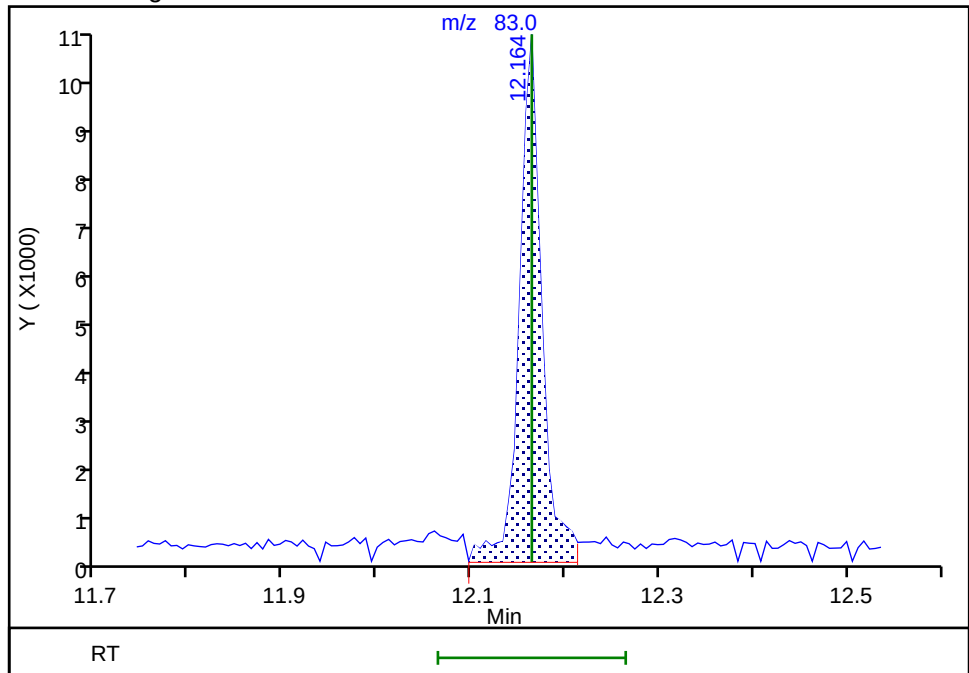
RT: 12.16
Area: 21987
Amount: 0.635183
Amount Units: ug/l

Processing Integration Results



RT: 12.16
Area: 17830
Amount: 0.533393
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:32:27 -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\20231016-96799.b\HO16X14.D
 Lims ID: IC std3 1
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 17-Oct-2023 08:23:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0096799-015
 Operator ID: GAW91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 20-Oct-2023 13:25:07 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: DVW2

Date: 18-Oct-2023 08:34:52

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	1.873	0.000	99	47180	1.00	0.9282	M
5 Chloromethane	50	2.062	2.056	0.006	99	49073	1.00	0.8794	
6 Vinyl chloride	62	2.172	2.172	0.000	84	46957	1.00	0.8771	
7 Butadiene	39	2.178	2.178	0.000	96	50830	1.00	0.8754	
9 Bromomethane	94	2.483	2.483	0.000	91	33098	1.00	0.8684	
10 Chloroethane	64	2.562	2.562	0.000	99	26760	1.00	0.8659	
11 Dichlorofluoromethane	67	2.782	2.788	-0.006	97	74286	1.00	0.8693	
12 Trichlorofluoromethane	101	2.855	2.855	0.000	95	55649	1.00	0.8687	
14 Ethyl ether	59	3.086	3.080	0.006	91	28495	1.00	0.9640	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.160	3.160	0.000	91	43180	1.00	0.9392	
16 Acrolein	56	3.239	3.239	0.000	98	183300	50.0	47.1	
17 1,1-Dichloroethene	96	3.373	3.373	0.000	99	31918	1.00	0.8878	
19 Acetone	43	3.410	3.391	0.019	82	50266	10.0	10.5	M
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.416	3.416	0.000	91	31640	1.00	0.9568	
21 Iodomethane	142	3.556	3.556	0.000	99	66017	1.00	0.9296	
22 Ethyl bromide	108	3.580	3.580	0.000	98	31517	1.00	0.9795	
23 Carbon disulfide	76	3.659	3.666	-0.007	100	91871	1.00	0.9179	
24 Methyl acetate	43	3.806	3.800	0.006	43	14125	1.00	1.01	
26 3-Chloro-1-propene	41	3.818	3.818	0.000	87	54415	1.00	0.9048	
27 Methylene Chloride	84	3.995	3.995	0.000	92	35765	1.00	0.9374	
* 28 t-Butyl alcohol-d10 (IS)	65	3.989	4.007	-0.018	95	79384	50.0	50.0	
29 2-Methyl-2-propanol	59	4.117	4.111	0.006	98	28646	20.0	20.1	
31 Acrylonitrile	53	4.330	4.312	0.018	95	15848	2.50	2.53	
32 Methyl tert-butyl ether	73	4.391	4.391	0.000	99	88705	1.00	0.9787	
33 trans-1,2-Dichloroethene	96	4.403	4.397	0.006	97	35833	1.00	0.8771	
34 Hexane	57	4.836	4.824	0.012	92	43007	1.00	0.9703	
36 1,1-Dichloroethane	63	5.062	5.056	0.006	96	67496	1.00	0.9281	
37 Isopropyl ether	45	5.129	5.123	0.006	93	113788	1.00	0.9497	
38 2-Chloro-1,3-butadiene	53	5.171	5.172	-0.001	94	61081	1.00	0.9288	
40 Tert-butyl ethyl ether	59	5.659	5.665	-0.006	97	111723	1.00	0.9476	
41 2-Butanone (MEK)	43	5.872	5.873	-0.001	99	72803	10.0	9.27	

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	5.909	5.897	0.012	83	40092	1.00	0.8747	
43 2,2-Dichloropropane	77	5.903	5.909	-0.006	73	63094	1.00	0.9356	
44 Propionitrile	54	5.970	5.952	0.018	98	43536	20.0	19.9	M
S 46 1,2-Dichloroethene, Total	100				0			1.75	
47 Methacrylonitrile	67	6.177	6.171	0.006	91	84861	10.0	9.72	
48 Chlorobromomethane	128	6.238	6.232	0.006	90	17318	1.00	0.9459	
49 Tetrahydrofuran	71	6.263	6.257	0.006	93	11413	5.00	4.53	
50 Chloroform	83	6.391	6.385	0.006	94	71473	1.00	0.9542	
\$ 52 Dibromofluoromethane (Surr)	113	6.604	6.604	0.000	93	437636	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.616	6.616	0.000	42	66112	1.00	0.9411	
54 Cyclohexane	56	6.720	6.720	0.000	92	59226	1.00	0.9288	
56 Carbon tetrachloride	117	6.830	6.830	0.000	92	55633	1.00	0.9460	
55 1,1-Dichloropropene	75	6.842	6.836	0.006	92	52973	1.00	0.9367	
57 Isobutyl alcohol	41	7.000	6.988	0.012	91	18857	50.0	41.9	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.061	7.061	0.000	81	82376	10.0	10.0	
59 Benzene	78	7.098	7.098	0.000	96	151159	1.00	0.9212	
60 1,2-Dichloroethane	62	7.177	7.171	0.006	97	45348	1.00	0.9489	
63 Tert-amyl methyl ether	73	7.299	7.299	0.000	97	97049	1.00	0.9707	
* 64 Fluorobenzene (IS)	96	7.506	7.506	0.000	98	1719834	10.0	10.0	
65 n-Heptane	43	7.531	7.525	0.006	91	40112	1.00	0.9168	
67 n-Butanol	56	7.903	7.891	0.013	89	29168	87.5	81.4	
68 Trichloroethene	95	7.994	8.000	-0.006	98	42574	1.00	0.9196	
69 Methylcyclohexane	83	8.305	8.305	0.000	92	56858	1.00	0.9066	
70 1,2-Dichloropropane	63	8.323	8.329	-0.006	89	37054	1.00	0.9182	
71 2-ethoxy-2-methyl butane	87	8.348	8.342	0.006	94	59941	1.00	0.9296	
72 Methyl methacrylate	69	8.427	8.421	0.006	87	16441	1.00	0.9167	
73 1,4-Dioxane	88	8.439	8.433	0.006	55	1563	50.0	46.4	
74 Dibromomethane	93	8.445	8.439	0.006	95	19149	1.00	0.9795	
76 Dichlorobromomethane	83	8.683	8.677	0.006	98	51068	1.00	0.9489	
77 2-Nitropropane	41	8.945	8.939	0.006	99	30107	5.00	4.95	
79 1-Bromo-2-chloroethane	63	9.079	9.073	0.006	99	38584	1.00	0.9733	
80 cis-1,3-Dichloropropene	75	9.244	9.238	0.006	93	57433	1.00	0.9171	
82 4-Methyl-2-pentanone (MIBK)	43	9.421	9.421	0.000	97	210696	10.0	9.52	
\$ 83 Toluene-d8 (Surr)	98	9.561	9.561	0.000	94	1724391	10.0	9.96	
84 Toluene	92	9.640	9.640	0.000	97	99695	1.00	0.9217	
85 trans-1,3-Dichloropropene	75	9.908	9.902	0.006	96	49058	1.00	0.9437	
104 Ethyl methacrylate	69	9.975	9.975	0.000	88	36821	1.00	0.9544	
S 105 1,3-Dichloropropene, Total	100				0			1.86	
106 1,1,2-Trichloroethane	97	10.116	10.116	0.000	91	26773	1.00	0.9831	
107 Tetrachloroethene	166	10.201	10.201	0.000	98	48288	1.00	0.9344	
108 1,3-Dichloropropane	76	10.280	10.280	0.000	91	44898	1.00	0.9624	
109 2-Hexanone	43	10.335	10.335	0.000	98	143316	10.0	9.73	
111 Chlorodibromomethane	129	10.500	10.500	0.000	90	34113	1.00	0.9392	
112 Ethylene Dibromide	107	10.609	10.609	0.000	98	24996	1.00	0.9521	
* 113 Chlorobenzene-d5 (IS)	117	11.048	11.048	0.000	86	1309701	10.0	10.0	
114 1-Chlorohexane	91	11.060	11.061	-0.001	97	57045	1.00	0.9236	
115 Chlorobenzene	112	11.073	11.073	0.000	94	109152	1.00	0.9259	
116 1,1,1,2-Tetrachloroethane	131	11.158	11.158	0.000	93	39973	1.00	0.9303	
117 Ethylbenzene	91	11.164	11.164	0.000	99	193231	1.00	0.9172	
S 118 Xylenes, Total	106				0			2.77	
119 m-Xylene & p-Xylene	106	11.280	11.280	0.000	100	149357	2.00	1.84	
120 o-Xylene	106	11.615	11.609	0.006	95	74669	1.00	0.9356	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 Styrene	104	11.627	11.628	-0.001	94	116663	1.00	0.9040	
122 Bromoform	173	11.786	11.786	0.000	97	21153	1.00	0.9242	
123 Isopropylbenzene	105	11.914	11.914	0.000	96	178597	1.00	0.9119	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	91	645223	10.0	9.95	
127 1,1,2,2-Tetrachloroethane	83	12.164	12.164	0.000	94	30867	1.00	0.9261	
128 Bromobenzene	156	12.176	12.176	0.000	95	45967	1.00	0.9255	
129 trans-1,4-Dichloro-2-butene	53	12.188	12.188	0.000	96	84012	10.0	9.30	
130 1,2,3-Trichloropropane	110	12.207	12.207	0.000	80	8444	1.00	0.9480	
131 N-Propylbenzene	91	12.249	12.249	0.000	99	219857	1.00	0.9336	
132 2-Chlorotoluene	126	12.322	12.323	-0.001	96	45777	1.00	0.9285	
133 1,3,5-Trimethylbenzene	105	12.383	12.384	-0.001	95	159499	1.00	0.9349	
134 4-Chlorotoluene	126	12.420	12.414	0.006	98	46229	1.00	0.9179	
135 tert-Butylbenzene	134	12.627	12.627	0.000	93	37670	1.00	0.9673	
136 Pentachloroethane	167	12.658	12.658	0.000	92	30365	1.00	0.9563	
137 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	98	156430	1.00	0.9068	
138 sec-Butylbenzene	105	12.792	12.792	0.000	94	189434	1.00	0.9115	
139 1,3-Dichlorobenzene	146	12.889	12.890	-0.001	98	87918	1.00	0.9234	
140 4-Isopropyltoluene	119	12.902	12.902	0.000	97	166418	1.00	0.9092	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	728345	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	-0.001	95	89409	1.00	0.9308	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	99	70965	1.00	0.9221	
144 Benzyl chloride	126	13.042	13.042	0.000	99	13031	1.00	0.9364	
145 p-Diethylbenzene	119	13.176	13.170	0.006	95	98173	1.00	0.9241	
146 n-Butylbenzene	92	13.194	13.194	0.000	98	74564	1.00	0.8978	
147 1,2-Dichlorobenzene	146	13.225	13.225	0.000	98	80283	1.00	0.9391	
149 1,2-Dibromo-3-Chloropropane	155	13.767	13.767	0.000	84	4130	1.00	0.9377	
150 1,3,5-Trichlorobenzene	180	13.895	13.895	0.000	97	58149	1.00	0.9060	
151 1,2,4-Trichlorobenzene	180	14.316	14.316	0.000	93	45128	1.00	0.9087	
152 Hexachlorobutadiene	225	14.401	14.401	0.000	95	17738	1.00	0.9218	
153 Naphthalene	128	14.499	14.493	0.006	97	71397	1.00	0.9058	
154 1,2,3-Trichlorobenzene	180	14.639	14.639	0.000	94	31335	1.00	0.8870	
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_00099

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00174

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00108

Amount Added: 2.00

Units: uL

MSV_LLcentISS_00009

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 20-Oct-2023 13:25:08

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X14.D

Injection Date: 17-Oct-2023 08:23:30

Instrument ID: 19094

Operator ID: GAW91131

Lims ID: IC std3 1

Worklist Smp#: 15

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

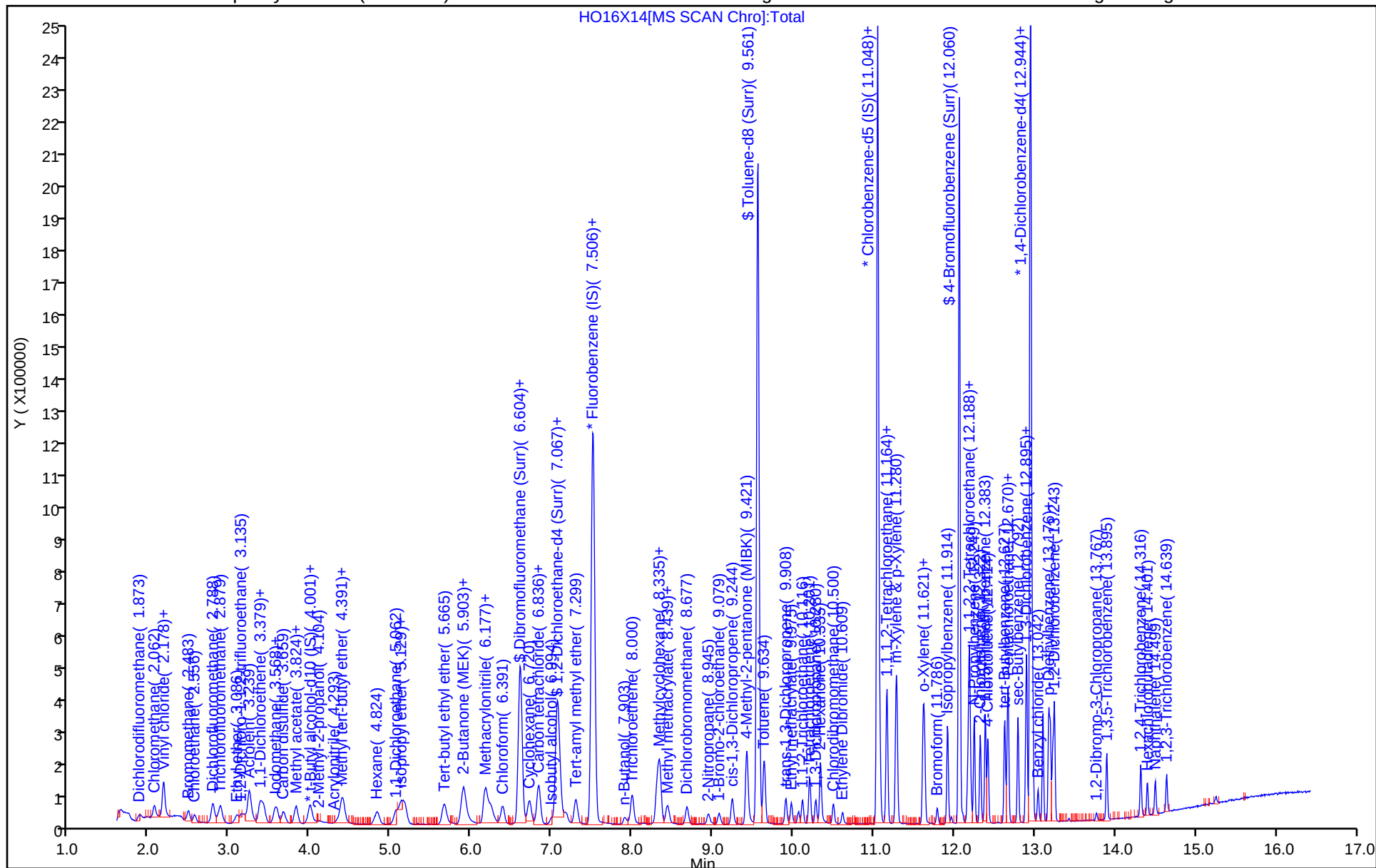
ALS Bottle#: 14

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



Eurofins Lancaster Laboratories Environment Testing, LLC

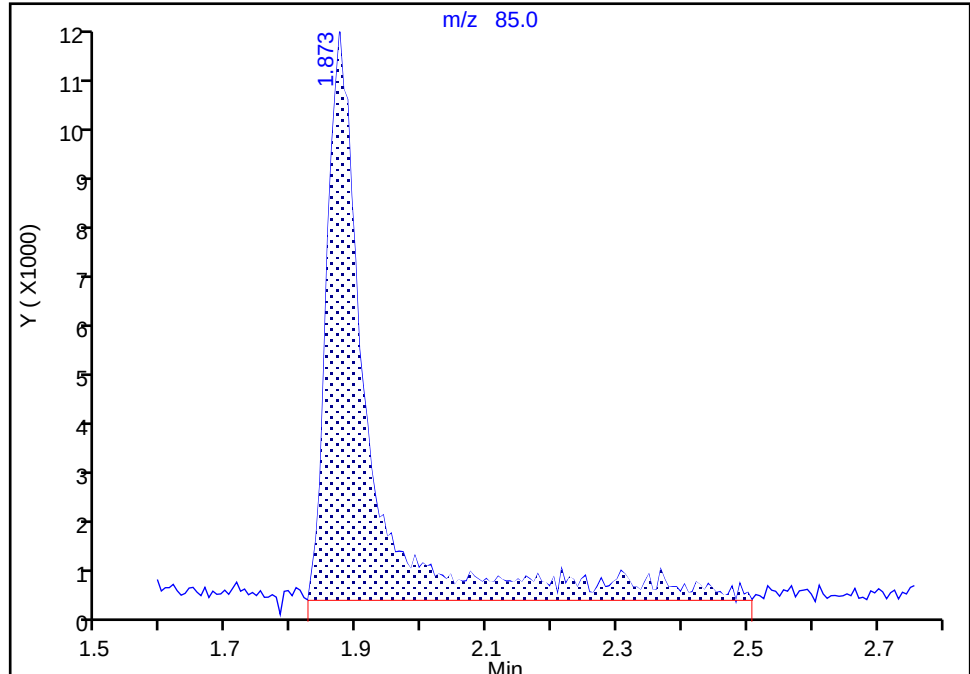
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Injection Date: 17-Oct-2023 08:23:30 Instrument ID: 19094
Lims ID: IC std3 1
Client ID:
Operator ID: GAW91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

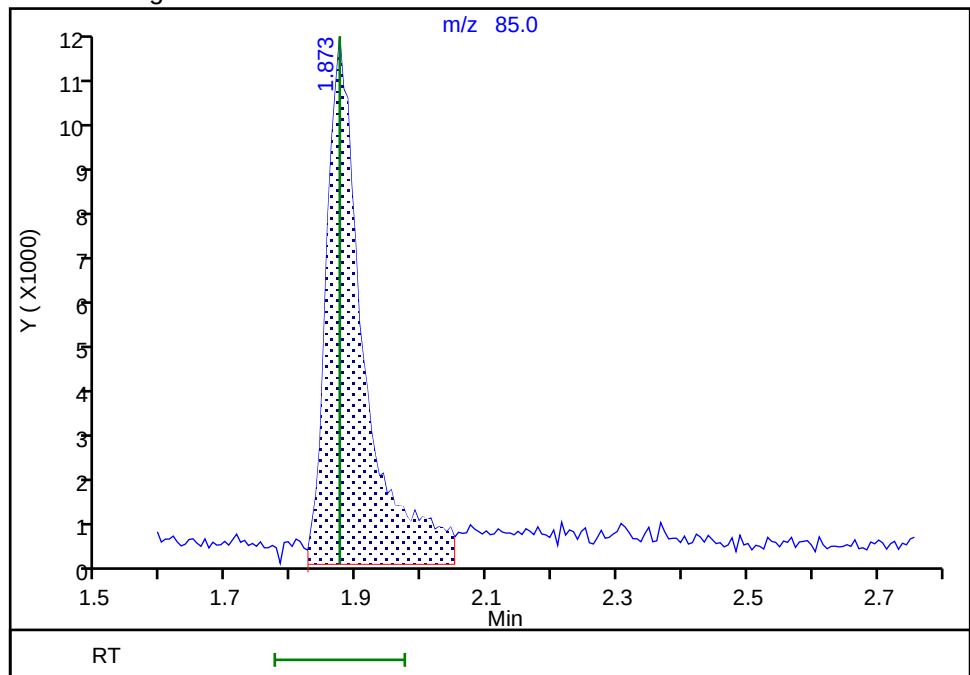
RT: 1.87
Area: 52231
Amount: 1.010344
Amount Units: ug/l

Processing Integration Results



RT: 1.87
Area: 47180
Amount: 0.928231
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:33:42 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

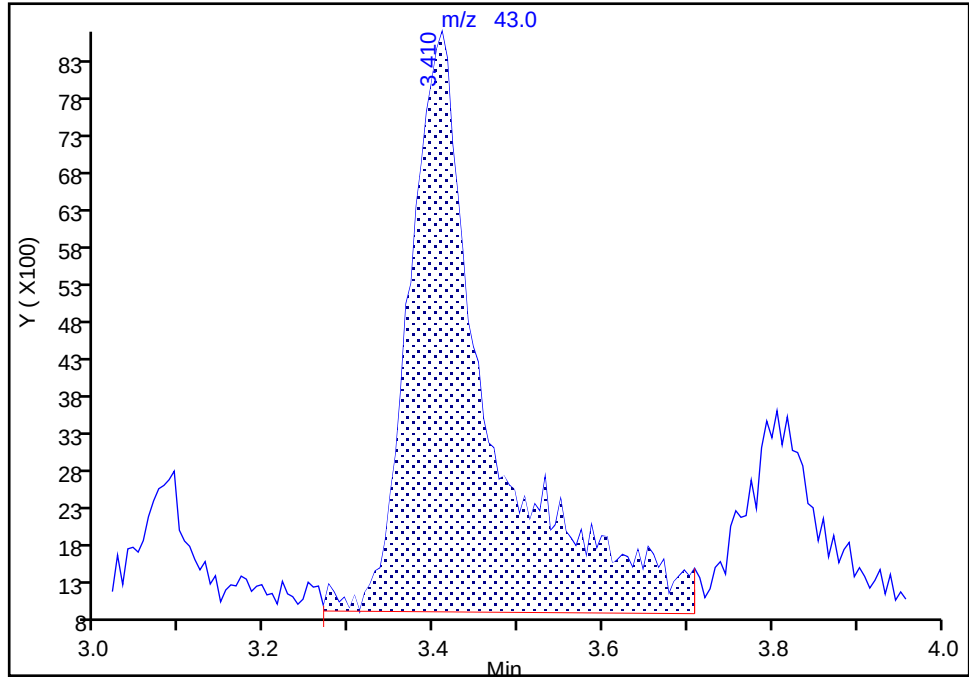
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Injection Date: 17-Oct-2023 08:23:30 Instrument ID: 19094
Lims ID: IC std3 1
Client ID:
Operator ID: GAW91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

19 Acetone, CAS: 67-64-1

Signal: 1

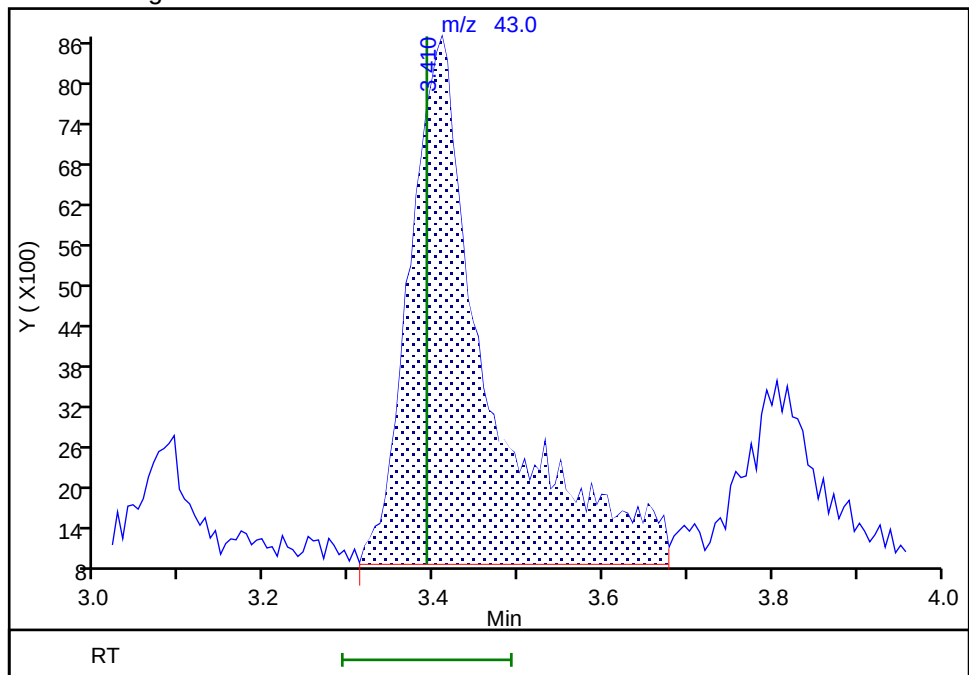
RT: 3.41
Area: 51989
Amount: 9.337243
Amount Units: ug/l

Processing Integration Results



RT: 3.41
Area: 50266
Amount: 10.462653
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:34:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

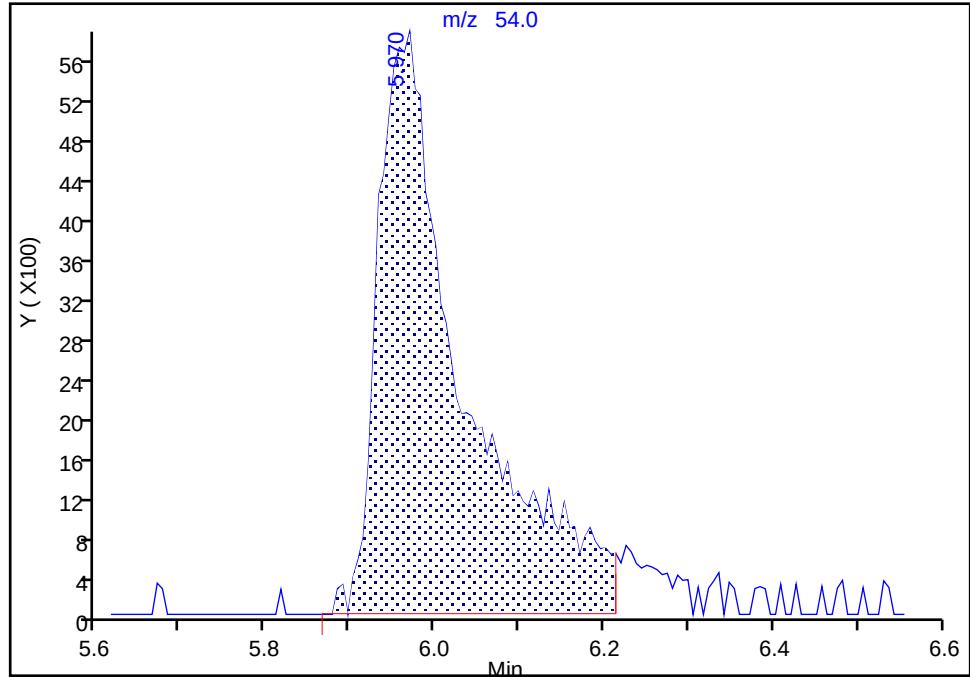
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Injection Date: 17-Oct-2023 08:23:30 Instrument ID: 19094
Lims ID: IC std3 1
Client ID:
Operator ID: GAW91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 Propionitrile, CAS: 107-12-0

Signal: 1

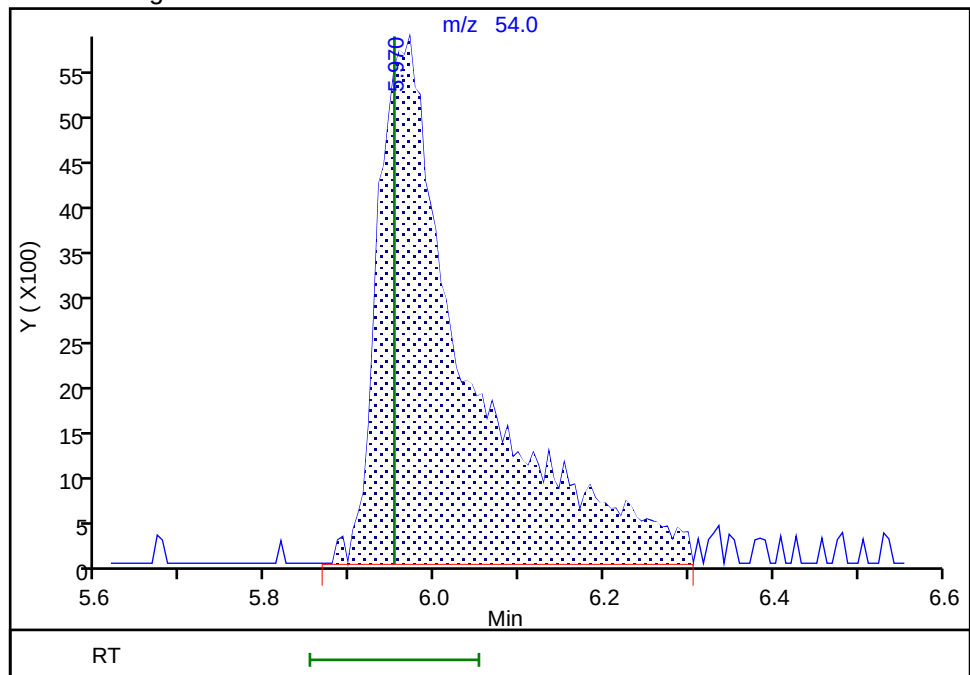
RT: 5.97
Area: 41203
Amount: 18.975728
Amount Units: ug/l

Processing Integration Results



RT: 5.97
Area: 43536
Amount: 19.899835
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:34:25 -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\20231016-96799.b\HO16X15.D
 Lims ID: IC std4 2
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 17-Oct-2023 08:43:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0096799-016
 Operator ID: GAW91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 20-Oct-2023 13:25:16 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: DVW2

Date: 18-Oct-2023 08:36:11

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	1.873	0.000	99	90377	2.00	1.75	M
5 Chloromethane	50	2.050	2.050	0.000	99	106532	2.00	1.88	
6 Vinyl chloride	62	2.166	2.166	0.000	98	99395	2.00	1.83	
7 Butadiene	39	2.172	2.172	0.000	94	106290	2.00	1.80	
9 Bromomethane	94	2.483	2.483	0.000	90	71849	2.00	1.86	
10 Chloroethane	64	2.562	2.562	0.000	99	57006	2.00	1.82	
11 Dichlorofluoromethane	67	2.782	2.782	0.000	97	161545	2.00	1.86	
12 Trichlorofluoromethane	101	2.849	2.849	0.000	98	117460	2.00	1.81	
14 Ethyl ether	59	3.080	3.080	0.000	92	55414	2.00	1.85	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.153	3.153	0.000	91	86730	2.00	1.86	
16 Acrolein	56	3.233	3.233	0.000	99	375617	100.0	99.4	
17 1,1-Dichloroethene	96	3.367	3.367	0.000	97	68446	2.00	1.87	
19 Acetone	43	3.391	3.391	0.000	90	90162	20.0	19.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.416	3.416	0.000	90	64086	2.00	1.91	
21 Iodomethane	142	3.556	3.556	0.000	100	139912	2.00	1.94	
22 Ethyl bromide	108	3.580	3.580	0.000	99	61398	2.00	1.88	
23 Carbon disulfide	76	3.659	3.659	0.000	100	193567	2.00	1.90	
24 Methyl acetate	43	3.794	3.794	0.000	75	23363	2.00	1.72	
26 3-Chloro-1-propene	41	3.818	3.818	0.000	89	117690	2.00	1.93	
27 Methylene Chloride	84	3.995	3.995	0.000	92	75109	2.00	1.94	
* 28 t-Butyl alcohol-d10 (IS)	65	3.989	3.989	0.000	96	77137	50.0	50.0	
29 2-Methyl-2-propanol	59	4.111	4.111	0.000	99	50526	40.0	36.6	
31 Acrylonitrile	53	4.324	4.324	0.000	95	30701	5.00	5.04	
32 Methyl tert-butyl ether	73	4.379	4.379	0.000	96	179688	2.00	1.95	
33 trans-1,2-Dichloroethene	96	4.391	4.391	0.000	98	77588	2.00	1.87	
34 Hexane	57	4.830	4.830	0.000	94	81655	2.00	1.81	
36 1,1-Dichloroethane	63	5.056	5.056	0.000	96	141100	2.00	1.91	
37 Isopropyl ether	45	5.123	5.123	0.000	95	237450	2.00	1.95	
38 2-Chloro-1,3-butadiene	53	5.171	5.171	0.000	93	127676	2.00	1.91	
40 Tert-butyl ethyl ether	59	5.659	5.659	0.000	98	229798	2.00	1.92	
41 2-Butanone (MEK)	43	5.872	5.872	0.000	100	164512	20.0	21.6	

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	5.897	5.897	0.000	83	83892	2.00	1.80	
43 2,2-Dichloropropane	77	5.909	5.909	0.000	89	128858	2.00	1.88	
44 Propionitrile	54	5.958	5.958	0.000	99	73597	40.0	34.6	
S 46 1,2-Dichloroethene, Total	100				0			3.67	
47 Methacrylonitrile	67	6.171	6.171	0.000	91	165324	20.0	19.5	
48 Chlorobromomethane	128	6.238	6.238	0.000	95	36142	2.00	1.94	
49 Tetrahydrofuran	71	6.263	6.263	0.000	78	23233	10.0	9.49	
50 Chloroform	83	6.385	6.385	0.000	94	144654	2.00	1.90	
\$ 52 Dibromofluoromethane (Surr)	113	6.604	6.604	0.000	94	445914	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.610	6.610	0.000	50	132836	2.00	1.86	
54 Cyclohexane	56	6.720	6.720	0.000	92	118477	2.00	1.83	
56 Carbon tetrachloride	117	6.830	6.830	0.000	94	114375	2.00	1.91	
55 1,1-Dichloropropene	75	6.836	6.836	0.000	91	108568	2.00	1.89	
57 Isobutyl alcohol	41	6.988	6.988	0.000	91	43149	100.0	98.7	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.061	7.061	0.000	81	83713	10.0	10.0	
59 Benzene	78	7.098	7.098	0.000	96	315674	2.00	1.89	
60 1,2-Dichloroethane	62	7.171	7.171	0.000	98	91322	2.00	1.88	
63 Tert-amyl methyl ether	73	7.299	7.299	0.000	97	196556	2.00	1.94	
* 64 Fluorobenzene (IS)	96	7.506	7.506	0.000	99	1746844	10.0	10.0	
65 n-Heptane	43	7.525	7.525	0.000	94	81488	2.00	1.83	
67 n-Butanol	56	7.896	7.896	0.000	90	55184	175.0	158.5	
68 Trichloroethene	95	7.994	7.994	0.000	97	87827	2.00	1.87	
69 Methylcyclohexane	83	8.305	8.305	0.000	91	116968	2.00	1.84	
70 1,2-Dichloropropane	63	8.329	8.329	0.000	94	80119	2.00	1.95	
71 2-ethoxy-2-methyl butane	87	8.342	8.342	0.000	94	126381	2.00	1.93	
72 Methyl methacrylate	69	8.421	8.421	0.000	90	33773	2.00	1.94	
73 1,4-Dioxane	88	8.427	8.427	0.000	31	5314	100.0	109.1	
74 Dibromomethane	93	8.439	8.439	0.000	94	39667	2.00	2.00	
76 Dichlorobromomethane	83	8.677	8.677	0.000	98	101988	2.00	1.87	
77 2-Nitropropane	41	8.939	8.939	0.000	99	62262	10.0	10.5	
79 1-Bromo-2-chloroethane	63	9.073	9.073	0.000	99	80483	2.00	2.00	
80 cis-1,3-Dichloropropene	75	9.238	9.238	0.000	94	123296	2.00	1.94	
82 4-Methyl-2-pentanone (MIBK)	43	9.421	9.421	0.000	97	431750	20.0	20.1	
\$ 83 Toluene-d8 (Surr)	98	9.555	9.555	0.000	94	1748617	10.0	9.96	
84 Toluene	92	9.640	9.640	0.000	98	209943	2.00	1.91	
85 trans-1,3-Dichloropropene	75	9.902	9.902	0.000	96	102145	2.00	1.94	
104 Ethyl methacrylate	69	9.975	9.975	0.000	88	76587	2.00	1.96	
S 105 1,3-Dichloropropene, Total	100				0			3.88	
106 1,1,2-Trichloroethane	97	10.109	10.109	0.000	92	51528	2.00	1.87	
107 Tetrachloroethene	166	10.201	10.201	0.000	98	99577	2.00	1.90	
108 1,3-Dichloropropane	76	10.280	10.280	0.000	93	92167	2.00	1.95	
109 2-Hexanone	43	10.335	10.335	0.000	97	293326	20.0	20.5	
111 Chlorodibromomethane	129	10.500	10.500	0.000	90	71443	2.00	1.94	
112 Ethylene Dibromide	107	10.609	10.609	0.000	99	52137	2.00	1.96	
* 113 Chlorobenzene-d5 (IS)	117	11.048	11.048	0.000	86	1328211	10.0	10.0	
114 1-Chlorohexane	91	11.060	11.060	0.000	98	114661	2.00	1.83	
115 Chlorobenzene	112	11.073	11.073	0.000	95	228565	2.00	1.91	
116 1,1,1,2-Tetrachloroethane	131	11.158	11.158	0.000	93	83742	2.00	1.92	
117 Ethylbenzene	91	11.164	11.164	0.000	99	406835	2.00	1.90	
S 118 Xylenes, Total	106				0			5.74	
119 m-Xylene & p-Xylene	106	11.280	11.280	0.000	100	315441	4.00	3.82	
120 o-Xylene	106	11.615	11.615	0.000	97	155466	2.00	1.92	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 Styrene	104	11.627	11.627	0.000	95	250467	2.00	1.91	
122 Bromoform	173	11.786	11.786	0.000	96	44849	2.00	1.93	
123 Isopropylbenzene	105	11.914	11.914	0.000	96	375955	2.00	1.89	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	91	661555	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.164	12.164	0.000	93	64343	2.00	1.86	
128 Bromobenzene	156	12.176	12.176	0.000	97	98259	2.00	1.91	
129 trans-1,4-Dichloro-2-butene	53	12.188	12.188	0.000	94	179781	20.0	20.5	
130 1,2,3-Trichloropropane	110	12.207	12.207	0.000	81	17806	2.00	1.93	
131 N-Propylbenzene	91	12.249	12.249	0.000	99	463022	2.00	1.90	
132 2-Chlorotoluene	126	12.322	12.322	0.000	96	96650	2.00	1.89	
133 1,3,5-Trimethylbenzene	105	12.383	12.383	0.000	94	333908	2.00	1.89	
134 4-Chlorotoluene	126	12.420	12.420	0.000	98	99221	2.00	1.90	
135 tert-Butylbenzene	134	12.627	12.627	0.000	93	74192	2.00	1.84	
136 Pentachloroethane	167	12.658	12.658	0.000	92	64027	2.00	1.94	
137 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	336157	2.00	1.88	
138 sec-Butylbenzene	105	12.792	12.792	0.000	95	399783	2.00	1.85	
139 1,3-Dichlorobenzene	146	12.889	12.889	0.000	98	187826	2.00	1.90	
140 4-Isopropyltoluene	119	12.902	12.902	0.000	97	352439	2.00	1.86	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	755516	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	187339	2.00	1.88	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	99	148580	2.00	1.86	
144 Benzyl chloride	126	13.042	13.042	0.000	99	28669	2.00	1.99	
145 p-Diethylbenzene	119	13.176	13.176	0.000	94	203228	2.00	1.84	
146 n-Butylbenzene	92	13.194	13.194	0.000	98	158862	2.00	1.84	
147 1,2-Dichlorobenzene	146	13.225	13.225	0.000	98	165991	2.00	1.87	
149 1,2-Dibromo-3-Chloropropane	155	13.767	13.767	0.000	86	8968	2.00	1.96	
150 1,3,5-Trichlorobenzene	180	13.895	13.895	0.000	98	122993	2.00	1.85	
151 1,2,4-Trichlorobenzene	180	14.316	14.316	0.000	94	94941	2.00	1.84	
152 Hexachlorobutadiene	225	14.401	14.401	0.000	95	35341	2.00	1.77	
153 Naphthalene	128	14.499	14.499	0.000	97	153733	2.00	1.88	
154 1,2,3-Trichlorobenzene	180	14.639	14.639	0.000	94	65209	2.00	1.78	
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_00099

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00174

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00108

Amount Added: 2.00

Units: uL

MSV_LLcentISS_00009

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 20-Oct-2023 13:25:17

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X15.D

Injection Date: 17-Oct-2023 08:43:30

Instrument ID: 19094

Operator ID: GAW91131

Lims ID: IC std4 2

Worklist Smp#: 16

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

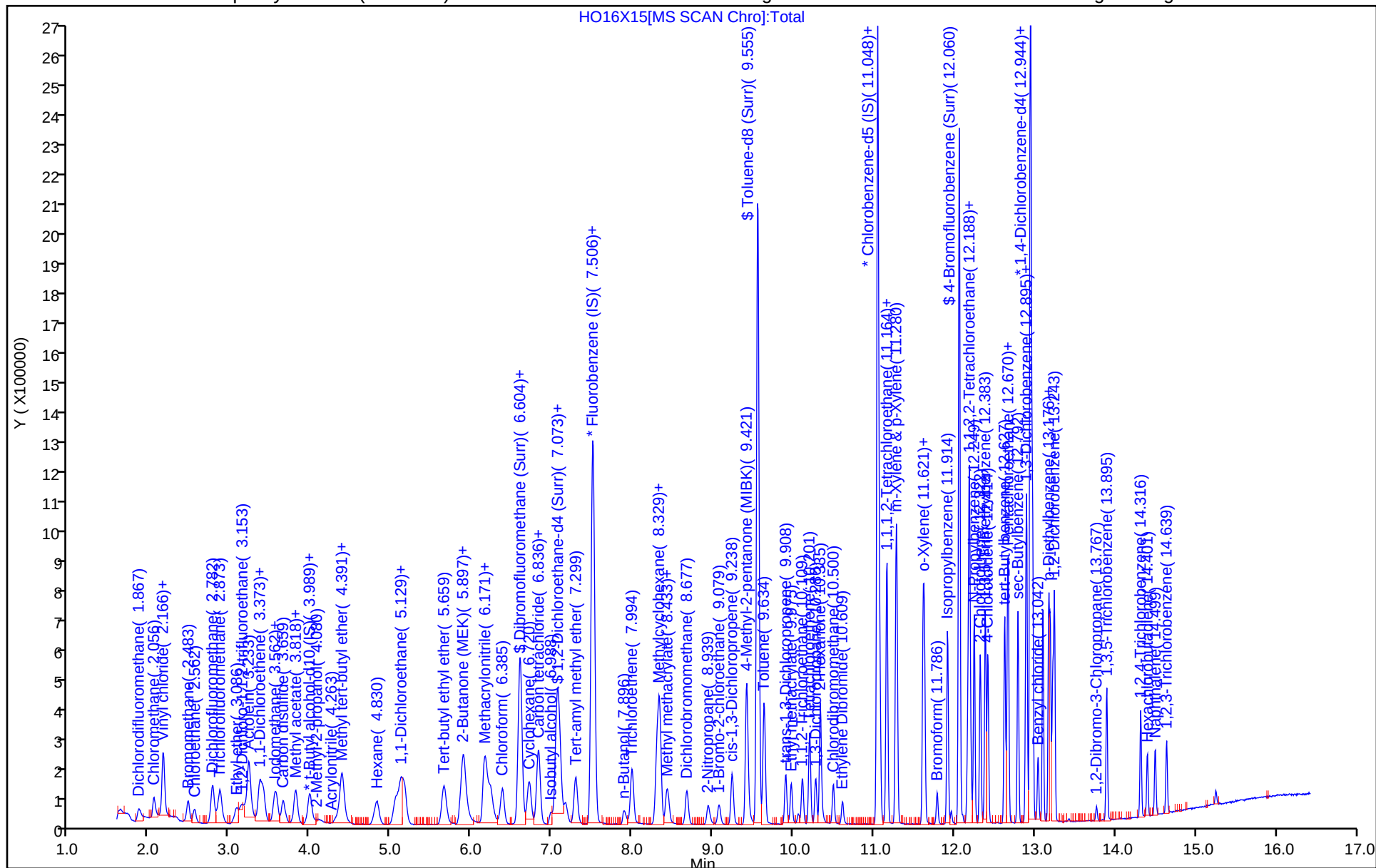
ALS Bottle#: 15

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



Eurofins Lancaster Laboratories Environment Testing, LLC

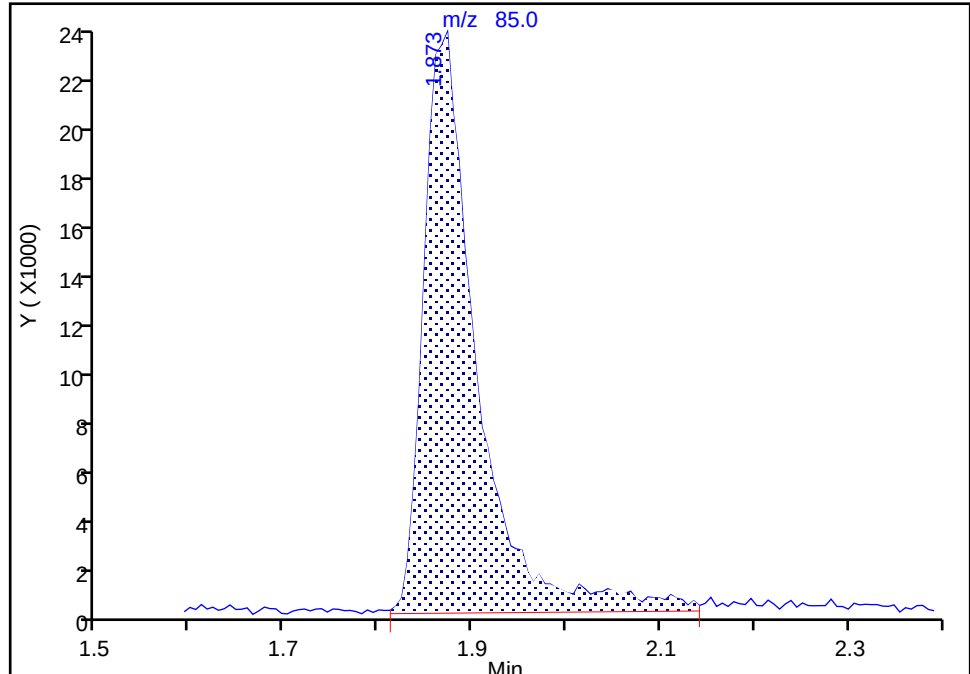
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X15.D
Injection Date: 17-Oct-2023 08:43:30 Instrument ID: 19094
Lims ID: IC std4 2
Client ID:
Operator ID: GAW91131 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

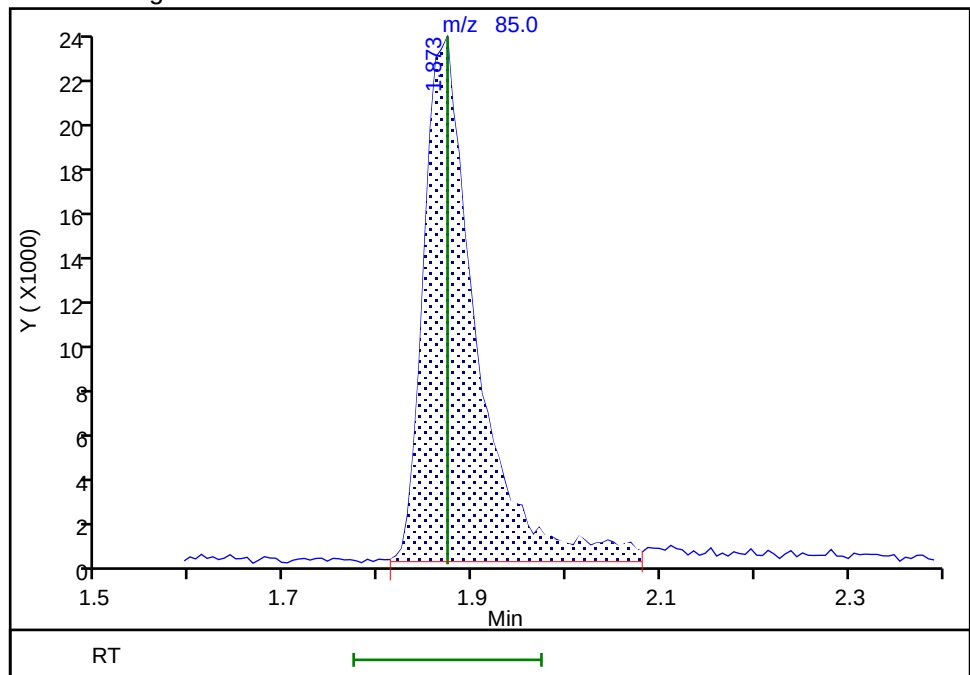
RT: 1.87
Area: 91246
Amount: 1.762347
Amount Units: ug/l

Processing Integration Results



RT: 1.87
Area: 90377
Amount: 1.750607
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:35:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X16.D
 Lims ID: IC std5 5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 17-Oct-2023 09:03:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0096799-017
 Operator ID: GAW91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 20-Oct-2023 13:25:24 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: DVW2

Date: 18-Oct-2023 08:37:44

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	1.873	0.000	99	269784	5.00	5.16	
5 Chloromethane	50	2.062	2.050	0.012	99	293765	5.00	5.12	
6 Vinyl chloride	62	2.172	2.166	0.006	98	282735	5.00	5.14	
7 Butadiene	39	2.178	2.172	0.006	93	292220	5.00	4.90	
9 Bromomethane	94	2.489	2.483	0.006	92	204743	5.00	5.23	
10 Chloroethane	64	2.562	2.562	0.000	99	163220	5.00	5.14	
11 Dichlorofluoromethane	67	2.788	2.782	0.006	97	452713	5.00	5.15	
12 Trichlorofluoromethane	101	2.861	2.849	0.012	97	346496	5.00	5.26	
14 Ethyl ether	59	3.080	3.080	0.000	92	143660	5.00	4.73	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.166	3.153	0.013	92	245902	5.00	5.20	
16 Acrolein	56	3.233	3.233	0.000	99	1041124	250.0	269.4	
17 1,1-Dichloroethene	96	3.373	3.367	0.006	98	181453	5.00	4.91	
19 Acetone	43	3.397	3.391	0.006	99	242560	50.0	50.8	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.422	3.416	0.006	92	184393	5.00	5.42	
21 Iodomethane	142	3.556	3.556	0.000	100	385400	5.00	5.28	
22 Ethyl bromide	108	3.586	3.580	0.006	99	172221	5.00	5.21	
23 Carbon disulfide	76	3.666	3.659	0.007	100	540550	5.00	5.25	
24 Methyl acetate	43	3.806	3.794	0.012	97	69702	5.00	5.01	
26 3-Chloro-1-propene	41	3.824	3.818	0.006	88	318387	5.00	5.15	
* 28 t-Butyl alcohol-d10 (IS)	65	4.001	3.989	0.012	98	78879	50.0	50.0	
27 Methylene Chloride	84	4.001	3.995	0.006	93	200041	5.00	5.10	
29 2-Methyl-2-propanol	59	4.117	4.111	0.006	100	130999	100.0	92.7	
31 Acrylonitrile	53	4.318	4.324	-0.006	96	83924	12.5	13.5	
32 Methyl tert-butyl ether	73	4.391	4.379	0.012	91	481655	5.00	5.17	
33 trans-1,2-Dichloroethene	96	4.397	4.391	0.006	98	208242	5.00	4.96	
34 Hexane	57	4.830	4.830	0.000	94	238153	5.00	5.23	
36 1,1-Dichloroethane	63	5.056	5.056	0.000	96	394881	5.00	5.28	
37 Isopropyl ether	45	5.123	5.123	0.000	94	653775	5.00	5.31	
38 2-Chloro-1,3-butadiene	53	5.172	5.171	0.001	93	354098	5.00	5.24	
40 Tert-butyl ethyl ether	59	5.665	5.659	0.006	98	623332	5.00	5.14	
41 2-Butanone (MEK)	43	5.873	5.872	0.001	100	416096	50.0	53.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 cis-1,2-Dichloroethene	96	5.897	5.897	0.000	83	237306	5.00	5.04	
43 2,2-Dichloropropane	77	5.915	5.909	0.006	89	363968	5.00	5.25	
44 Propionitrile	54	5.952	5.958	-0.006	99	221902	100.0	102.1	
S 46 1,2-Dichloroethene, Total	100				0			10.0	
47 Methacrylonitrile	67	6.177	6.171	0.006	91	460779	50.0	53.1	
48 Chlorobromomethane	128	6.238	6.238	0.000	90	99299	5.00	5.28	
49 Tetrahydrofuran	71	6.275	6.263	0.012	74	62153	25.0	24.8	
50 Chloroform	83	6.391	6.385	0.006	94	401062	5.00	5.21	
\$ 52 Dibromofluoromethane (Surr)	113	6.610	6.604	0.006	93	446285	10.0	9.96	
53 1,1,1-Trichloroethane	97	6.616	6.610	0.006	98	363673	5.00	5.04	
54 Cyclohexane	56	6.720	6.720	0.000	92	322054	5.00	4.91	
56 Carbon tetrachloride	117	6.836	6.830	0.006	95	322102	5.00	5.33	
55 1,1-Dichloropropene	75	6.836	6.836	0.000	92	305524	5.00	5.26	
57 Isobutyl alcohol	41	6.994	6.988	0.006	93	118894	250.0	265.9	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.067	7.061	0.006	96	84004	10.0	9.95	
59 Benzene	78	7.098	7.098	0.000	97	884849	5.00	5.25	
60 1,2-Dichloroethane	62	7.171	7.171	0.000	98	252595	5.00	5.14	
63 Tert-amyl methyl ether	73	7.299	7.299	0.000	98	540680	5.00	5.26	
* 64 Fluorobenzene (IS)	96	7.513	7.506	0.007	98	1767939	10.0	10.0	
65 n-Heptane	43	7.525	7.525	0.000	92	226574	5.00	5.04	
67 n-Butanol	56	7.890	7.896	-0.006	90	157550	437.5	442.5	
68 Trichloroethene	95	7.994	7.994	0.000	97	241889	5.00	5.08	
69 Methylcyclohexane	83	8.305	8.305	0.000	91	332915	5.00	5.16	
70 1,2-Dichloropropane	63	8.329	8.329	0.000	93	219159	5.00	5.28	
71 2-ethoxy-2-methyl butane	87	8.342	8.342	0.000	93	350008	5.00	5.28	
72 Methyl methacrylate	69	8.421	8.421	0.000	89	91782	5.00	5.15	
73 1,4-Dioxane	88	8.439	8.427	0.012	30	14378	250.0	253.6	
74 Dibromomethane	93	8.439	8.439	0.000	94	108172	5.00	5.38	
76 Dichlorobromomethane	83	8.677	8.677	0.000	99	283768	5.00	5.13	
77 2-Nitropropane	41	8.945	8.939	0.006	99	164849	25.0	27.3	
79 1-Bromo-2-chloroethane	63	9.079	9.073	0.006	99	212267	5.00	5.21	
80 cis-1,3-Dichloropropene	75	9.238	9.238	0.000	94	344128	5.00	5.35	
82 4-Methyl-2-pentanone (MIBK)	43	9.421	9.421	0.000	97	1161884	50.0	52.8	
\$ 83 Toluene-d8 (Surr)	98	9.561	9.555	0.006	94	1774999	10.0	10.1	
84 Toluene	92	9.640	9.640	0.000	98	579879	5.00	5.27	
85 trans-1,3-Dichloropropene	75	9.902	9.902	0.000	96	280170	5.00	5.29	
104 Ethyl methacrylate	69	9.975	9.975	0.000	88	213843	5.00	5.44	
S 105 1,3-Dichloropropene, Total	100				0			10.6	
106 1,1,2-Trichloroethane	97	10.116	10.109	0.007	92	146211	5.00	5.27	
107 Tetrachloroethene	166	10.201	10.201	0.000	98	279523	5.00	5.31	
108 1,3-Dichloropropane	76	10.280	10.280	0.000	92	252396	5.00	5.31	
109 2-Hexanone	43	10.335	10.335	0.000	97	796852	50.0	54.4	
111 Chlorodibromomethane	129	10.500	10.500	0.000	90	197684	5.00	5.35	
112 Ethylene Dibromide	107	10.609	10.609	0.000	99	143307	5.00	5.36	
* 113 Chlorobenzene-d5 (IS)	117	11.048	11.048	0.000	87	1333491	10.0	10.0	
114 1-Chlorohexane	91	11.061	11.060	0.001	98	318107	5.00	5.06	
115 Chlorobenzene	112	11.073	11.073	0.000	94	637795	5.00	5.31	
116 1,1,1,2-Tetrachloroethane	131	11.158	11.158	0.000	95	234270	5.00	5.36	
117 Ethylbenzene	91	11.164	11.164	0.000	99	1143402	5.00	5.33	
S 118 Xylenes, Total	106				0			16.2	
119 m-Xylene & p-Xylene	106	11.280	11.280	0.000	100	896495	10.0	10.8	
120 o-Xylene	106	11.609	11.615	-0.006	97	434748	5.00	5.35	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 Styrene	104	11.628	11.627	0.001	95	709117	5.00	5.40	
122 Bromoform	173	11.786	11.786	0.000	97	121808	5.00	5.23	
123 Isopropylbenzene	105	11.914	11.914	0.000	96	1070240	5.00	5.37	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	92	659508	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.164	12.164	0.000	93	174174	5.00	5.05	
128 Bromobenzene	156	12.176	12.176	0.000	97	273415	5.00	5.32	
129 trans-1,4-Dichloro-2-butene	53	12.188	12.188	0.000	94	486532	50.0	54.2	
130 1,2,3-Trichloropropane	110	12.207	12.207	0.000	82	47572	5.00	5.16	
131 N-Propylbenzene	91	12.249	12.249	0.000	99	1325546	5.00	5.44	
132 2-Chlorotoluene	126	12.323	12.322	0.001	96	273969	5.00	5.37	
133 1,3,5-Trimethylbenzene	105	12.384	12.383	0.001	95	942099	5.00	5.34	
134 4-Chlorotoluene	126	12.414	12.420	-0.006	98	282160	5.00	5.41	
135 tert-Butylbenzene	134	12.627	12.627	0.000	93	209234	5.00	5.19	
136 Pentachloroethane	167	12.658	12.658	0.000	92	179069	5.00	5.45	
137 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	959866	5.00	5.38	
138 sec-Butylbenzene	105	12.792	12.792	0.000	94	1147529	5.00	5.34	
139 1,3-Dichlorobenzene	146	12.890	12.889	0.001	98	531270	5.00	5.39	
140 4-Isopropyltoluene	119	12.902	12.902	0.000	97	1018163	5.00	5.38	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	753615	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	94	527414	5.00	5.31	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	99	420731	5.00	5.28	
144 Benzyl chloride	126	13.042	13.042	0.000	99	77368	5.00	5.37	
145 p-Diethylbenzene	119	13.170	13.176	-0.006	95	600726	5.00	5.46	
146 n-Butylbenzene	92	13.194	13.194	0.000	98	466594	5.00	5.43	
147 1,2-Dichlorobenzene	146	13.225	13.225	0.000	98	476507	5.00	5.39	
149 1,2-Dibromo-3-Chloropropane	155	13.767	13.767	0.000	87	25588	5.00	5.61	
150 1,3,5-Trichlorobenzene	180	13.895	13.895	0.000	97	364821	5.00	5.49	
151 1,2,4-Trichlorobenzene	180	14.316	14.316	0.000	94	287606	5.00	5.60	
152 Hexachlorobutadiene	225	14.401	14.401	0.000	96	107924	5.00	5.42	
153 Naphthalene	128	14.493	14.499	-0.006	97	447944	5.00	5.49	
154 1,2,3-Trichlorobenzene	180	14.639	14.639	0.000	95	203417	5.00	5.57	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MSV_LL_#1_826_00099	Amount Added: 5.00	Units: uL	
MSV_LL_GAS826_00174	Amount Added: 5.00	Units: uL	
MSV_LL_#2_826_00108	Amount Added: 5.00	Units: uL	
MSV_LLcentISS_00009	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 20-Oct-2023 13:25:25

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X16.D

Injection Date: 17-Oct-2023 09:03:30

Instrument ID: 19094

Operator ID: GAW91131

Lims ID: IC std5 5

Worklist Smp#: 17

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

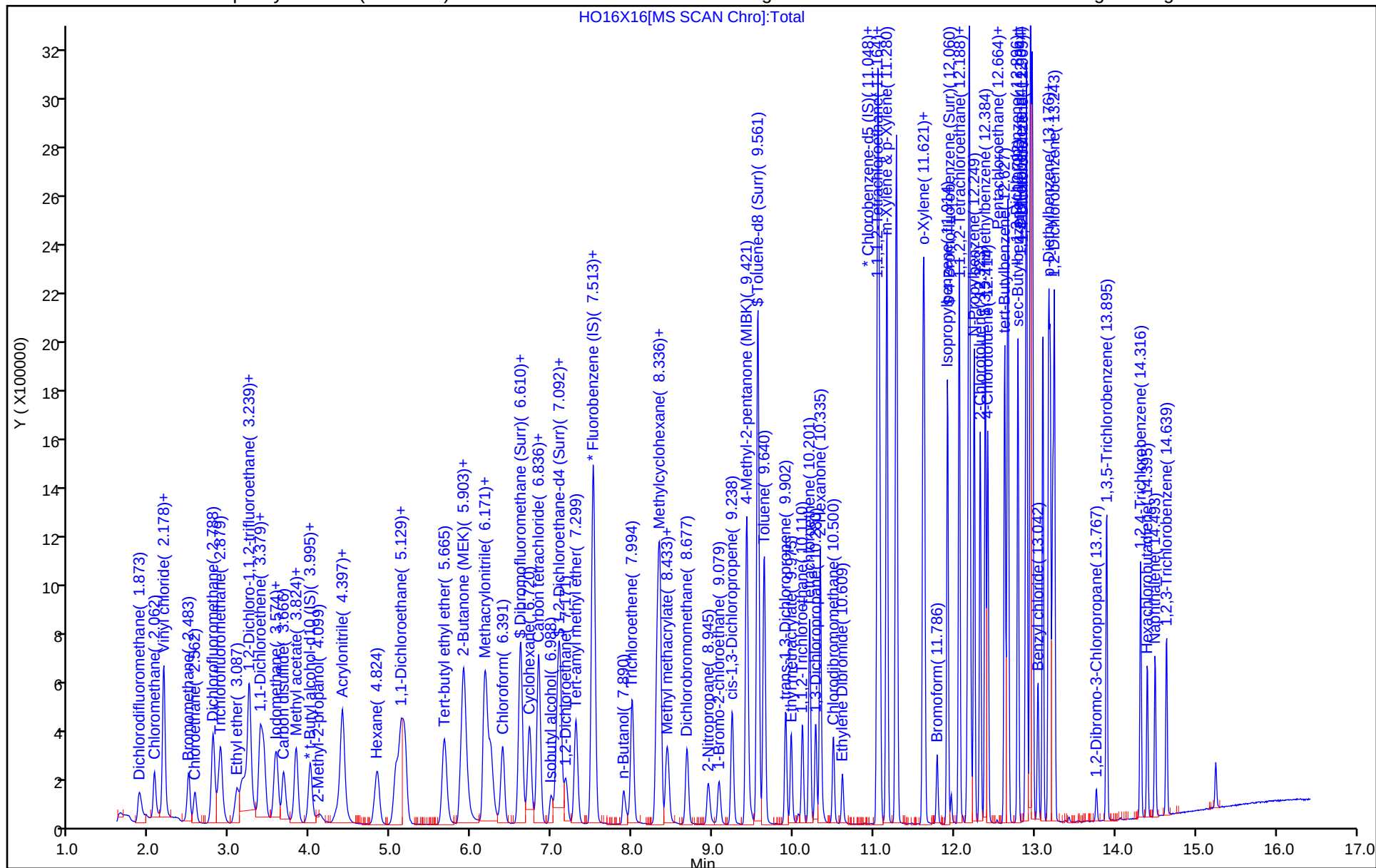
ALS Bottle#: 16

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X17.D
 Lims ID: ICIS 10
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 17-Oct-2023 09:23:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0096799-018
 Operator ID: GAW91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 20-Oct-2023 13:25:59 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: DVW2

Date: 17-Oct-2023 12:22:17

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	1.873	0.000	99	507209	10.0	9.58	M
5 Chloromethane	50	2.056	2.056	0.000	99	564233	10.0	9.71	
6 Vinyl chloride	62	2.172	2.172	0.000	98	553589	10.0	9.93	
7 Butadiene	39	2.178	2.178	0.000	93	560540	10.0	9.27	
9 Bromomethane	94	2.483	2.483	0.000	92	401381	10.0	10.1	
10 Chloroethane	64	2.562	2.562	0.000	100	325286	10.0	10.1	
11 Dichlorofluoromethane	67	2.788	2.788	0.000	97	884888	10.0	9.95	
12 Trichlorofluoromethane	101	2.855	2.855	0.000	98	673647	10.0	10.1	
14 Ethyl ether	59	3.080	3.080	0.000	91	280429	10.0	9.11	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.160	3.160	0.000	93	481778	10.0	10.1	
16 Acrolein	56	3.239	3.239	0.000	99	2058814	500.0	500.5	
17 1,1-Dichloroethene	96	3.373	3.373	0.000	98	351395	10.0	9.39	
19 Acetone	43	3.391	3.391	0.000	99	481459	100.0	94.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.416	3.416	0.000	92	360550	10.0	10.5	
21 Iodomethane	142	3.556	3.556	0.000	100	758656	10.0	10.3	
22 Ethyl bromide	108	3.580	3.580	0.000	99	333791	10.0	9.96	
23 Carbon disulfide	76	3.666	3.666	0.000	100	1064212	10.0	10.2	
24 Methyl acetate	43	3.800	3.800	0.000	97	145164	10.0	9.80	M
26 3-Chloro-1-propene	41	3.818	3.818	0.000	89	627191	10.0	10.0	
* 28 t-Butyl alcohol-d10 (IS)	65	3.995	3.995	0.000	98	83963	50.0	50.0	
27 Methylene Chloride	84	3.995	3.995	0.000	93	389393	10.0	9.80	
29 2-Methyl-2-propanol	59	4.111	4.111	0.000	99	270754	200.0	180.0	M
31 Acrylonitrile	53	4.312	4.312	0.000	99	168087	25.0	25.3	
32 Methyl tert-butyl ether	73	4.391	4.391	0.000	97	936741	10.0	9.93	
33 trans-1,2-Dichloroethene	96	4.397	4.397	0.000	98	415667	10.0	9.77	
34 Hexane	57	4.824	4.824	0.000	94	468454	10.0	10.2	
36 1,1-Dichloroethane	63	5.056	5.056	0.000	96	771595	10.0	10.2	
37 Isopropyl ether	45	5.123	5.123	0.000	93	1265608	10.0	10.1	
38 2-Chloro-1,3-butadiene	53	5.172	5.172	0.000	93	693459	10.0	10.1	
40 Tert-butyl ethyl ether	59	5.665	5.665	0.000	98	1210160	10.0	9.86	
41 2-Butanone (MEK)	43	5.873	5.873	0.000	100	858081	100.0	103.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 cis-1,2-Dichloroethene	96	5.897	5.897	0.000	84	463373	10.0	9.71	
43 2,2-Dichloropropane	77	5.909	5.909	0.000	89	700054	10.0	9.97	
44 Propionitrile	54	5.952	5.952	0.000	99	453768	200.0	196.1	
47 Methacrylonitrile	67	6.171	6.171	0.000	92	896260	100.0	97.0	
48 Chlorobromomethane	128	6.232	6.232	0.000	93	197344	10.0	10.4	
49 Tetrahydrofuran	71	6.257	6.257	0.000	77	119685	50.0	44.9	
50 Chloroform	83	6.385	6.385	0.000	94	777655	10.0	9.97	
\$ 52 Dibromofluoromethane (Surr)	113	6.604	6.604	0.000	94	452725	10.0	9.98	
53 1,1,1-Trichloroethane	97	6.616	6.616	0.000	99	713756	10.0	9.76	
54 Cyclohexane	56	6.720	6.720	0.000	91	627140	10.0	9.45	
56 Carbon tetrachloride	117	6.830	6.830	0.000	93	630044	10.0	10.3	
55 1,1-Dichloropropene	75	6.836	6.836	0.000	95	603402	10.0	10.2	
57 Isobutyl alcohol	41	6.988	6.988	0.000	93	243164	500.0	510.9	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.061	7.061	0.000	82	86260	10.0	10.1	
59 Benzene	78	7.098	7.098	0.000	97	1739533	10.0	10.2	
60 1,2-Dichloroethane	62	7.171	7.171	0.000	98	495374	10.0	9.95	
63 Tert-amyl methyl ether	73	7.299	7.299	0.000	97	1049210	10.0	10.1	
* 64 Fluorobenzene (IS)	96	7.513	7.513	0.000	97	1790766	10.0	10.0	
65 n-Heptane	43	7.525	7.525	0.000	92	457520	10.0	10.0	a
67 n-Butanol	56	7.891	7.891	0.000	90	322813	875.0	851.8	
68 Trichloroethene	95	8.000	8.000	0.000	98	477276	10.0	9.90	
69 Methylcyclohexane	83	8.305	8.305	0.000	91	655108	10.0	10.0	
70 1,2-Dichloropropane	63	8.329	8.329	0.000	84	434187	10.0	10.3	
71 2-ethoxy-2-methyl butane	87	8.342	8.342	0.000	92	684492	10.0	10.2	
72 Methyl methacrylate	69	8.421	8.421	0.000	89	186286	10.0	9.82	
73 1,4-Dioxane	88	8.433	8.433	0.000	31	32606	500.0	516.1	M
74 Dibromomethane	93	8.439	8.439	0.000	95	212223	10.0	10.4	
76 Dichlorobromomethane	83	8.677	8.677	0.000	99	565218	10.0	10.1	
77 2-Nitropropane	41	8.939	8.939	0.000	99	327671	50.0	50.9	
79 1-Bromo-2-chloroethane	63	9.073	9.073	0.000	99	420542	10.0	10.2	
80 cis-1,3-Dichloropropene	75	9.238	9.238	0.000	94	675489	10.0	10.4	
82 4-Methyl-2-pentanone (MIBK)	43	9.421	9.421	0.000	97	2303046	100.0	98.4	
\$ 83 Toluene-d8 (Surr)	98	9.561	9.561	0.000	94	1796445	10.0	10.0	
84 Toluene	92	9.640	9.640	0.000	98	1142311	10.0	10.2	
85 trans-1,3-Dichloropropene	75	9.902	9.902	0.000	96	557232	10.0	10.3	
104 Ethyl methacrylate	69	9.975	9.975	0.000	88	421239	10.0	10.5	
106 1,1,2-Trichloroethane	97	10.116	10.116	0.000	92	282069	10.0	9.98	
107 Tetrachloroethene	166	10.201	10.201	0.000	98	546346	10.0	10.2	
108 1,3-Dichloropropane	76	10.280	10.280	0.000	91	495565	10.0	10.2	
109 2-Hexanone	43	10.335	10.335	0.000	97	1568973	100.0	100.7	
111 Chlorodibromomethane	129	10.500	10.500	0.000	90	391692	10.0	10.4	
112 Ethylene Dibromide	107	10.609	10.609	0.000	99	281663	10.0	10.3	
* 113 Chlorobenzene-d5 (IS)	117	11.048	11.048	0.000	87	1358954	10.0	10.0	
114 1-Chlorohexane	91	11.061	11.061	0.000	98	622571	10.0	9.71	
115 Chlorobenzene	112	11.073	11.073	0.000	95	1251390	10.0	10.2	
116 1,1,1,2-Tetrachloroethane	131	11.158	11.158	0.000	95	459904	10.0	10.3	
117 Ethylbenzene	91	11.164	11.164	0.000	99	2242763	10.0	10.3	
119 m-Xylene & p-Xylene	106	11.280	11.280	0.000	100	1757894	20.0	20.8	
120 o-Xylene	106	11.609	11.609	0.000	97	858645	10.0	10.4	
121 Styrene	104	11.628	11.628	0.000	95	1399608	10.0	10.5	
122 Bromoform	173	11.786	11.786	0.000	97	243995	10.0	10.3	
123 Isopropylbenzene	105	11.914	11.914	0.000	96	2111260	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
\$ 126 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	92	670074	10.0	9.96	
127 1,1,2,2-Tetrachloroethane	83	12.164	12.164	0.000	93	348020	10.0	9.83	
128 Bromobenzene	156	12.176	12.176	0.000	97	536338	10.0	10.2	
129 trans-1,4-Dichloro-2-butene	53	12.188	12.188	0.000	94	974662	100.0	102.0	
130 1,2,3-Trichloropropane	110	12.207	12.207	0.000	81	93674	10.0	9.90	
131 N-Propylbenzene	91	12.249	12.249	0.000	99	2617024	10.0	10.5	
132 2-Chlorotoluene	126	12.323	12.323	0.000	96	540390	10.0	10.3	
133 1,3,5-Trimethylbenzene	105	12.384	12.384	0.000	94	1866045	10.0	10.3	
134 4-Chlorotoluene	126	12.414	12.414	0.000	98	557795	10.0	10.4	
135 tert-Butylbenzene	134	12.627	12.627	0.000	93	416802	10.0	10.1	
136 Pentachloroethane	167	12.658	12.658	0.000	92	356890	10.0	10.6	
137 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	1895362	10.0	10.3	
138 sec-Butylbenzene	105	12.792	12.792	0.000	94	2295397	10.0	10.4	
139 1,3-Dichlorobenzene	146	12.890	12.890	0.000	98	1050300	10.0	10.4	
140 4-Isopropyltoluene	119	12.902	12.902	0.000	97	2039325	10.0	10.5	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	773685	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	93	1044640	10.0	10.2	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	99	830627	10.0	10.2	
144 Benzyl chloride	126	13.042	13.042	0.000	99	155081	10.0	10.5	
145 p-Diethylbenzene	119	13.170	13.170	0.000	96	1202568	10.0	10.7	
146 n-Butylbenzene	92	13.194	13.194	0.000	98	938789	10.0	10.6	
147 1,2-Dichlorobenzene	146	13.225	13.225	0.000	98	938103	10.0	10.3	
149 1,2-Dibromo-3-Chloropropane	155	13.767	13.767	0.000	86	52436	10.0	11.2	
150 1,3,5-Trichlorobenzene	180	13.895	13.895	0.000	97	736563	10.0	10.8	
151 1,2,4-Trichlorobenzene	180	14.316	14.316	0.000	94	599055	10.0	11.4	
152 Hexachlorobutadiene	225	14.401	14.401	0.000	95	213022	10.0	10.4	
153 Naphthalene	128	14.493	14.493	0.000	97	946293	10.0	11.3	
154 1,2,3-Trichlorobenzene	180	14.639	14.639	0.000	95	443087	10.0	11.8	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00099	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00174	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00108	Amount Added: 10.00	Units: uL	
MSV_LLcentISS_00009	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 20-Oct-2023 13:26:00

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X17.D

Injection Date: 17-Oct-2023 09:23:30

Instrument ID: 19094

Operator ID: GAW91131

Lims ID: ICIS 10

Worklist Smp#: 18

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

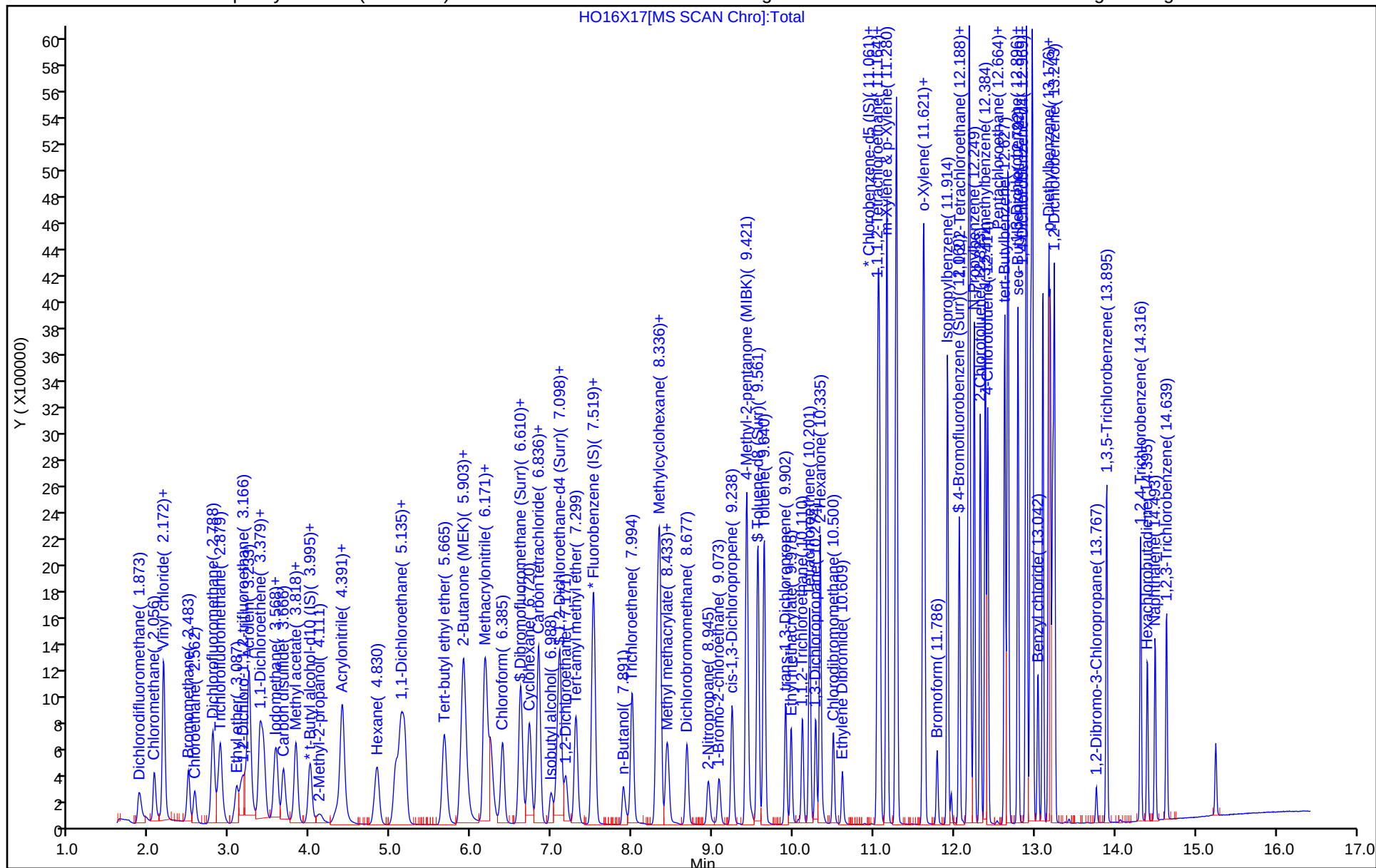
ALS Bottle#: 17

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



Eurofins Lancaster Laboratories Environment Testing, LLC

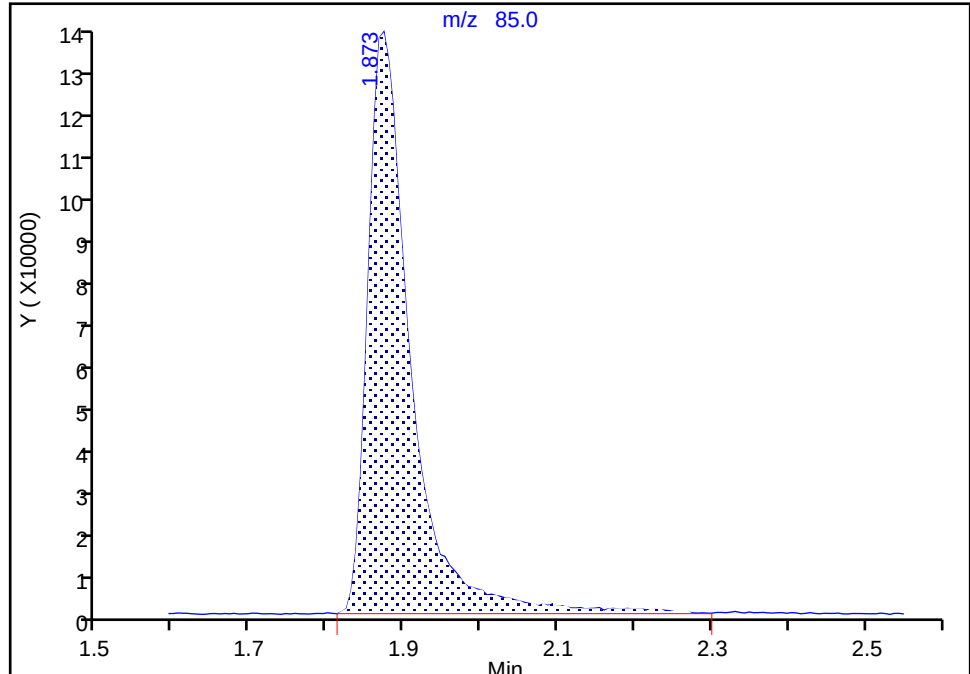
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Injection Date: 17-Oct-2023 09:23:30 Instrument ID: 19094
Lims ID: ICIS 10
Client ID:
Operator ID: GAW91131 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

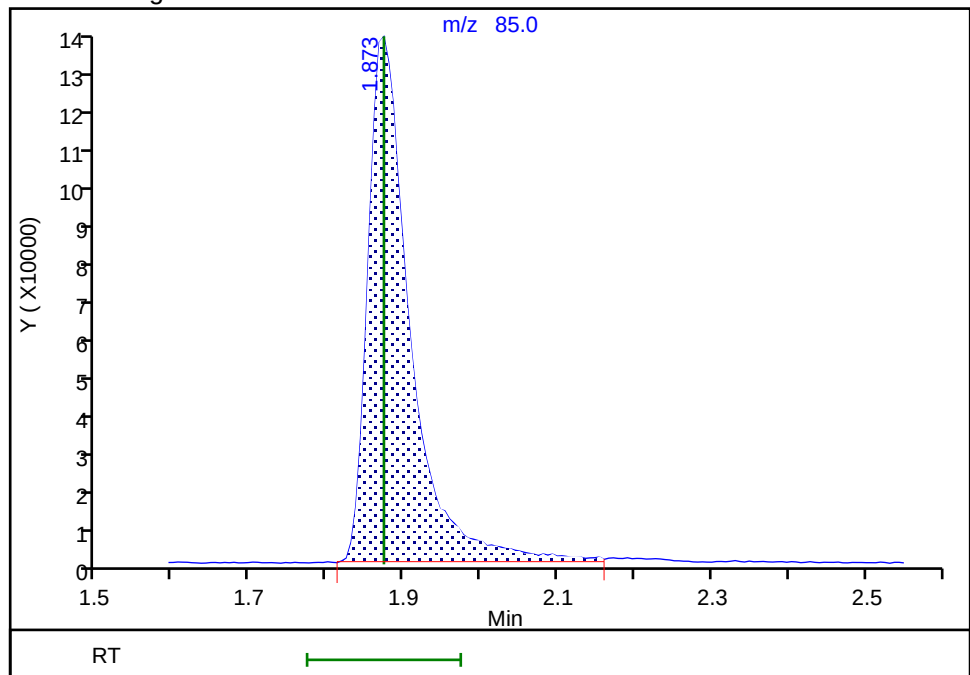
RT: 1.87
Area: 513458
Amount: 9.728042
Amount Units: ug/l

Processing Integration Results



RT: 1.87
Area: 507209
Amount: 9.583692
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:38:15 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

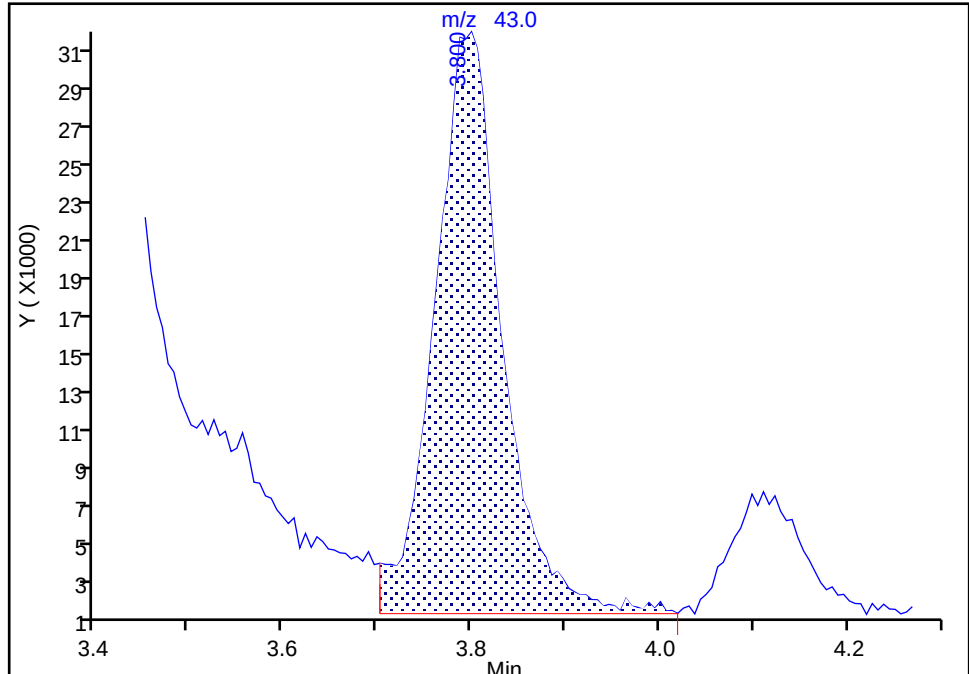
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Injection Date: 17-Oct-2023 09:23:30 Instrument ID: 19094
Lims ID: ICIS 10
Client ID:
Operator ID: GAW91131 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

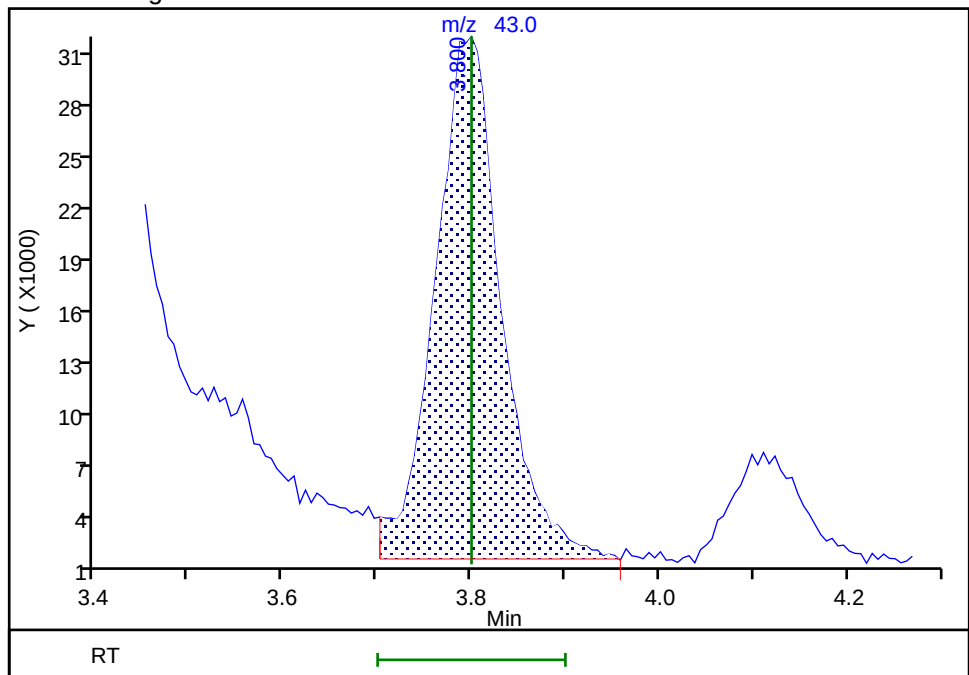
RT: 3.80
Area: 148458
Amount: 11.397217
Amount Units: ug/l

Processing Integration Results



RT: 3.80
Area: 145164
Amount: 9.800128
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 12:20:30 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

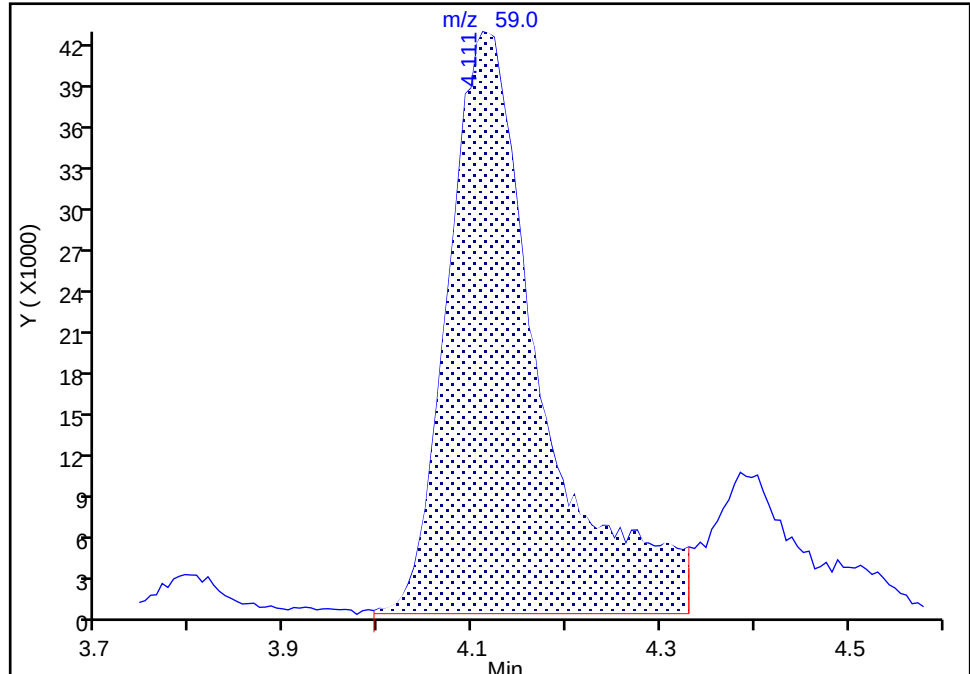
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Injection Date: 17-Oct-2023 09:23:30 Instrument ID: 19094
Lims ID: ICIS 10
Client ID:
Operator ID: GAW91131 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

29 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

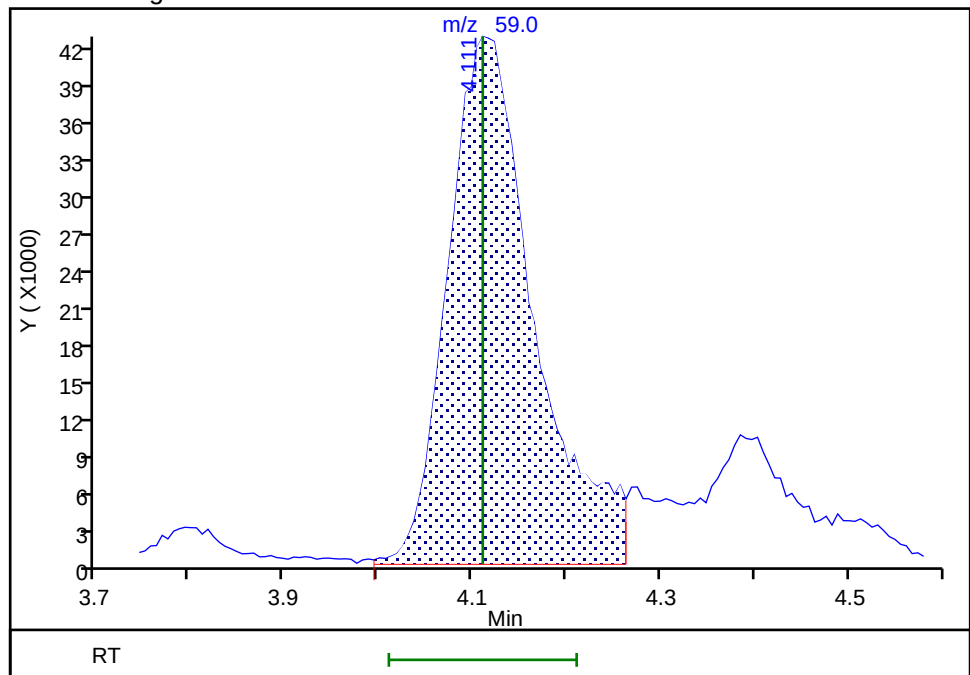
RT: 4.11
Area: 291689
Amount: 213.6053
Amount Units: ug/l

Processing Integration Results



RT: 4.11
Area: 270754
Amount: 179.9718
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 12:20:50 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

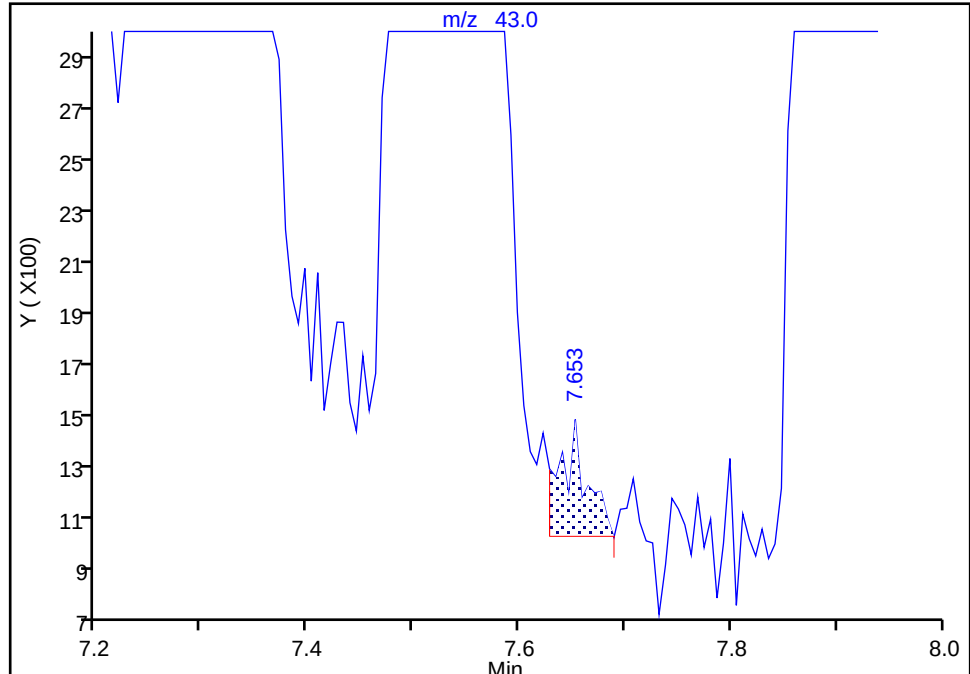
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Injection Date: 17-Oct-2023 09:23:30 Instrument ID: 19094
Lims ID: ICIS 10
Client ID:
Operator ID: GAW91131 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

65 n-Heptane, CAS: 142-82-5

Signal: 1

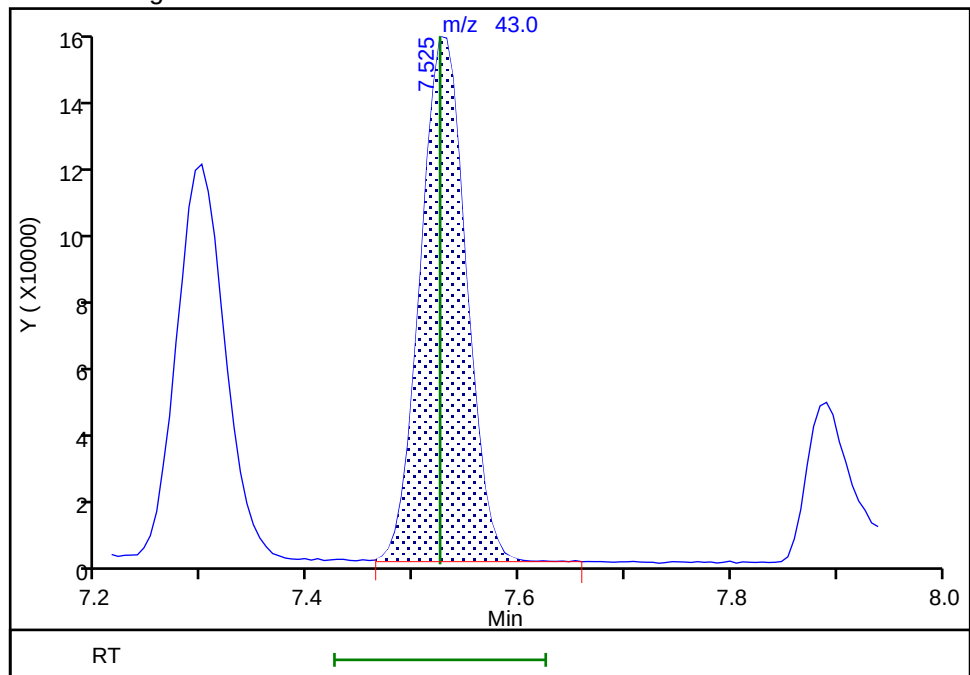
RT: 7.65
Area: 810
Amount: 0.115377
Amount Units: ug/l

Processing Integration Results



RT: 7.52
Area: 457520
Amount: 10.043283
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 12:21:28 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

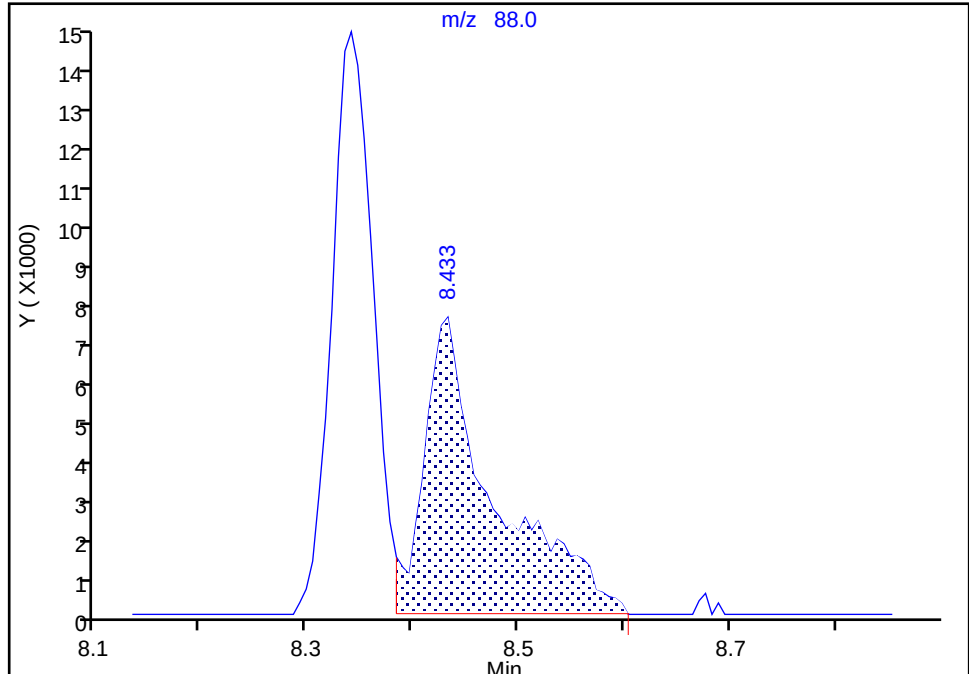
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Injection Date: 17-Oct-2023 09:23:30 Instrument ID: 19094
Lims ID: ICIS 10
Client ID:
Operator ID: GAW91131 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

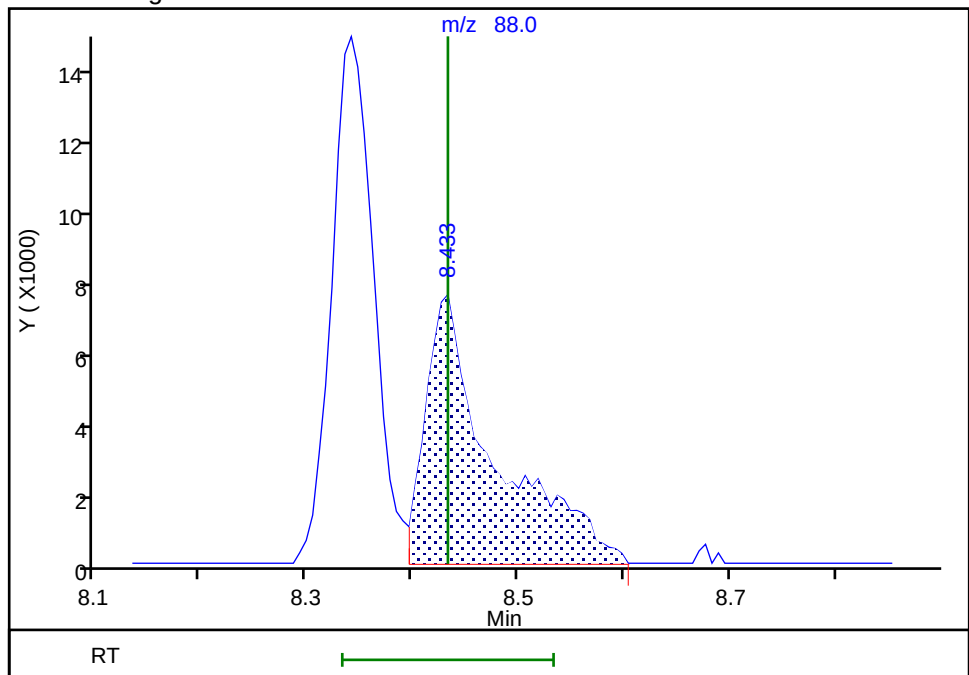
RT: 8.43
Area: 33537
Amount: 538.6950
Amount Units: ug/l

Processing Integration Results



RT: 8.43
Area: 32606
Amount: 516.1190
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 17-Oct-2023 12:21:43 -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\20231016-96799.b\HO16X18.D
 Lims ID: IC std7 25
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 17-Oct-2023 09:43:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0096799-019
 Operator ID: GAW91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 20-Oct-2023 13:26:14 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: DVW2

Date: 18-Oct-2023 08:40:59

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	1.873	-0.006	99	1289612	25.0	23.3	
5 Chloromethane	50	2.056	2.056	0.000	99	1437851	25.0	23.6	
6 Vinyl chloride	62	2.160	2.172	-0.012	98	1388317	25.0	23.8	
7 Butadiene	39	2.166	2.178	-0.012	93	1381584	25.0	21.8	
9 Bromomethane	94	2.477	2.483	-0.006	92	1004257	25.0	24.2	
10 Chloroethane	64	2.556	2.562	-0.006	100	814435	25.0	24.2	
11 Dichlorofluoromethane	67	2.782	2.788	-0.006	97	2242569	25.0	24.1	
12 Trichlorofluoromethane	101	2.849	2.855	-0.006	98	1691810	25.0	24.2	
14 Ethyl ether	59	3.074	3.080	-0.006	92	696272	25.0	21.6	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.154	3.160	-0.006	96	1219424	25.0	24.3	
16 Acrolein	56	3.227	3.239	-0.012	99	5421811	1250.0	1180.8	
17 1,1-Dichloroethene	96	3.367	3.373	-0.006	98	906570	25.0	23.1	
19 Acetone	43	3.385	3.391	-0.006	99	1297197	250.0	228.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.410	3.416	-0.006	92	929807	25.0	25.8	
21 Iodomethane	142	3.550	3.556	-0.006	99	1943225	25.0	25.1	
22 Ethyl bromide	108	3.574	3.580	-0.006	99	841362	25.0	24.0	
23 Carbon disulfide	76	3.660	3.666	-0.006	100	2705357	25.0	24.8	
24 Methyl acetate	43	3.781	3.800	-0.019	97	380982	25.0	23.0	
26 3-Chloro-1-propene	41	3.812	3.818	-0.006	89	1589573	25.0	24.2	
* 28 t-Butyl alcohol-d10 (IS)	65	3.983	3.995	-0.012	98	93724	50.0	50.0	
27 Methylene Chloride	84	3.989	3.995	-0.006	92	995462	25.0	23.9	
29 2-Methyl-2-propanol	59	4.105	4.111	-0.006	99	719241	500.0	428.3	
31 Acrylonitrile	53	4.300	4.312	-0.012	98	453076	62.5	61.2	
32 Methyl tert-butyl ether	73	4.379	4.391	-0.012	96	2413997	25.0	24.4	
33 trans-1,2-Dichloroethene	96	4.391	4.397	-0.006	99	1043791	25.0	23.4	
34 Hexane	57	4.818	4.824	-0.006	94	1202233	25.0	24.9	
36 1,1-Dichloroethane	63	5.050	5.056	-0.006	96	1950616	25.0	24.6	
37 Isopropyl ether	45	5.117	5.123	-0.006	93	3220831	25.0	24.7	
38 2-Chloro-1,3-butadiene	53	5.159	5.172	-0.013	93	1743566	25.0	24.3	
40 Tert-butyl ethyl ether	59	5.659	5.665	-0.006	98	3058176	25.0	23.8	
41 2-Butanone (MEK)	43	5.866	5.873	-0.007	100	2291803	250.0	247.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 cis-1,2-Dichloroethene	96	5.891	5.897	-0.006	86	1185422	25.0	23.7	
43 2,2-Dichloropropane	77	5.909	5.909	0.000	89	1767722	25.0	24.0	
44 Propionitrile	54	5.940	5.952	-0.012	98	1242528	500.0	481.0	
S 46 1,2-Dichloroethene, Total	100				0			47.2	
47 Methacrylonitrile	67	6.171	6.171	0.000	91	2383156	250.0	231.1	
48 Chlorobromomethane	128	6.226	6.232	-0.006	88	505069	25.0	25.3	
49 Tetrahydrofuran	71	6.257	6.257	0.000	78	324154	125.0	109.0	
50 Chloroform	83	6.385	6.385	0.000	94	1993721	25.0	24.4	
\$ 52 Dibromofluoromethane (Surr)	113	6.598	6.604	-0.006	93	473178	10.0	9.96	
53 1,1,1-Trichloroethane	97	6.610	6.616	-0.006	99	1801496	25.0	23.5	
54 Cyclohexane	56	6.714	6.720	-0.006	91	1631813	25.0	23.5	
56 Carbon tetrachloride	117	6.830	6.830	0.000	95	1603652	25.0	25.0	
55 1,1-Dichloropropene	75	6.830	6.836	-0.006	95	1524924	25.0	24.7	
57 Isobutyl alcohol	41	6.988	6.988	0.000	93	665662	1250.0	1252.9	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.061	7.061	0.000	96	90407	10.0	10.1	
59 Benzene	78	7.098	7.098	0.000	97	4441888	25.0	24.8	
60 1,2-Dichloroethane	62	7.165	7.171	-0.006	98	1256931	25.0	24.1	
63 Tert-amyl methyl ether	73	7.299	7.299	0.000	98	2716526	25.0	24.9	
* 64 Fluorobenzene (IS)	96	7.506	7.513	-0.007	99	1875183	10.0	10.0	
65 n-Heptane	43	7.525	7.525	0.000	92	1183220	25.0	24.8	
67 n-Butanol	56	7.884	7.891	-0.006	90	833677	2187.5	1970.8	
68 Trichloroethene	95	7.994	8.000	-0.006	97	1225963	25.0	24.3	
69 Methylcyclohexane	83	8.305	8.305	0.000	91	1699819	25.0	24.9	
70 1,2-Dichloropropane	63	8.323	8.329	-0.006	93	1118071	25.0	25.4	
71 2-ethoxy-2-methyl butane	87	8.342	8.342	0.000	92	1761961	25.0	25.1	
72 Methyl methacrylate	69	8.421	8.421	0.000	89	488267	25.0	23.1	
73 1,4-Dioxane	88	8.427	8.433	-0.006	30	83291	1250.0	1153.6	M
74 Dibromomethane	93	8.439	8.439	0.000	94	549830	25.0	25.8	
76 Dichlorobromomethane	83	8.677	8.677	0.000	99	1452028	25.0	24.7	
77 2-Nitropropane	41	8.939	8.939	0.000	99	860468	125.0	119.8	
79 1-Bromo-2-chloroethane	63	9.073	9.073	0.000	99	1077642	25.0	24.9	
80 cis-1,3-Dichloropropene	75	9.238	9.238	0.000	96	1754015	25.0	25.7	
82 4-Methyl-2-pentanone (MIBK)	43	9.421	9.421	0.000	97	6058586	250.0	231.9	
\$ 83 Toluene-d8 (Surr)	98	9.561	9.561	0.000	94	1885324	10.0	10.0	
84 Toluene	92	9.634	9.640	-0.006	98	2918122	25.0	24.8	
85 trans-1,3-Dichloropropene	75	9.902	9.902	0.000	95	1459303	25.0	25.8	
104 Ethyl methacrylate	69	9.975	9.975	0.000	88	1100528	25.0	26.2	
S 105 1,3-Dichloropropene, Total	100				0			51.5	
106 1,1,2-Trichloroethane	97	10.110	10.116	-0.006	92	735870	25.0	24.8	
107 Tetrachloroethene	166	10.201	10.201	0.000	98	1393850	25.0	24.8	
108 1,3-Dichloropropane	76	10.280	10.280	0.000	92	1280937	25.0	25.2	
109 2-Hexanone	43	10.335	10.335	0.000	97	4113843	250.0	236.5	
111 Chlorodibromomethane	129	10.500	10.500	0.000	90	1025341	25.0	25.9	
112 Ethylene Dibromide	107	10.609	10.609	0.000	99	735357	25.0	25.7	
* 113 Chlorobenzene-d5 (IS)	117	11.048	11.048	0.000	85	1426382	10.0	10.0	
114 1-Chlorohexane	91	11.061	11.061	0.000	98	1593955	25.0	23.7	
115 Chlorobenzene	112	11.073	11.073	0.000	98	3225340	25.0	25.1	
116 1,1,1,2-Tetrachloroethane	131	11.158	11.158	0.000	95	1194283	25.0	25.5	
117 Ethylbenzene	91	11.164	11.164	0.000	99	5743058	25.0	25.0	
S 118 Xylenes, Total	106				0			76.4	
119 m-Xylene & p-Xylene	106	11.280	11.280	0.000	99	4514240	50.0	50.9	
120 o-Xylene	106	11.609	11.609	0.000	97	2211532	25.0	25.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 Styrene	104	11.628	11.628	0.000	95	3621922	25.0	25.8	
122 Bromoform	173	11.786	11.786	0.000	97	640885	25.0	25.7	
123 Isopropylbenzene	105	11.914	11.914	0.000	96	5382098	25.0	25.2	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	92	712164	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.164	12.164	0.000	93	909156	25.0	24.5	
128 Bromobenzene	156	12.176	12.176	0.000	97	1391566	25.0	25.1	
129 trans-1,4-Dichloro-2-butene	53	12.188	12.188	0.000	94	2575267	250.0	241.4	
130 1,2,3-Trichloropropane	110	12.207	12.207	0.000	81	244226	25.0	24.6	
131 N-Propylbenzene	91	12.249	12.249	0.000	99	6609275	25.0	25.2	
132 2-Chlorotoluene	126	12.322	12.323	-0.001	96	1387686	25.0	25.2	
133 1,3,5-Trimethylbenzene	105	12.383	12.384	-0.001	94	4799921	25.0	25.2	
134 4-Chlorotoluene	126	12.414	12.414	0.000	98	1426214	25.0	25.4	
135 tert-Butylbenzene	134	12.627	12.627	0.000	93	1062110	25.0	24.5	
136 Pentachloroethane	167	12.658	12.658	0.000	92	917050	25.0	25.9	
137 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	4889578	25.0	25.4	
138 sec-Butylbenzene	105	12.792	12.792	0.000	94	5896551	25.0	25.4	
139 1,3-Dichlorobenzene	146	12.889	12.890	-0.001	98	2726352	25.0	25.7	
140 4-Isopropyltoluene	119	12.902	12.902	0.000	97	5239951	25.0	25.7	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	812275	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	93	2693379	25.0	25.1	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	99	2153109	25.0	25.1	
144 Benzyl chloride	126	13.042	13.042	0.000	99	407152	25.0	26.2	
145 p-Diethylbenzene	119	13.176	13.170	0.006	95	3104756	25.0	26.2	
146 n-Butylbenzene	92	13.194	13.194	0.000	98	2439188	25.0	26.3	
147 1,2-Dichlorobenzene	146	13.225	13.225	0.000	98	2422463	25.0	25.4	
149 1,2-Dibromo-3-Chloropropane	155	13.767	13.767	0.000	87	143556	25.0	29.2	
150 1,3,5-Trichlorobenzene	180	13.895	13.895	0.000	97	1911490	25.0	26.7	
151 1,2,4-Trichlorobenzene	180	14.316	14.316	0.000	94	1581016	25.0	28.5	
152 Hexachlorobutadiene	225	14.401	14.401	0.000	95	556855	25.0	25.9	
153 Naphthalene	128	14.493	14.493	0.000	97	2569391	25.0	29.2	
154 1,2,3-Trichlorobenzene	180	14.639	14.639	0.000	95	1194182	25.0	30.3	
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_00099

Amount Added: 25.00

Units: uL

MSV_LL_GAS826_00174

Amount Added: 25.00

Units: uL

MSV_LL_#2_826_00108

Amount Added: 25.00

Units: uL

MSV_LLcentISS_00009

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 20-Oct-2023 13:26:15

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D

Injection Date: 17-Oct-2023 09:43:30

Instrument ID: 19094

Operator ID: GAW91131

Lims ID: IC std7 25

Worklist Smp#: 19

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

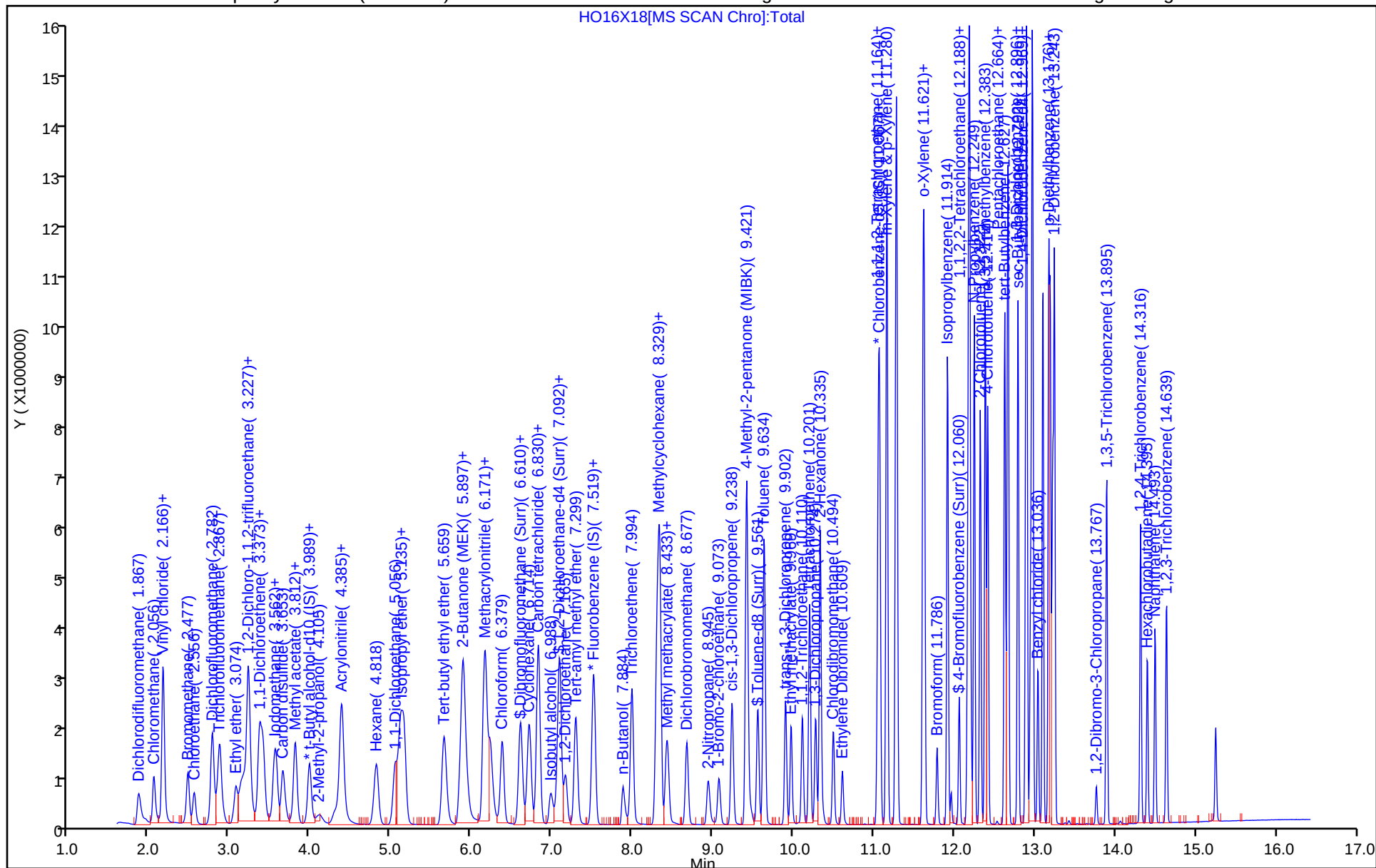
ALS Bottle#: 18

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



Eurofins Lancaster Laboratories Environment Testing, LLC

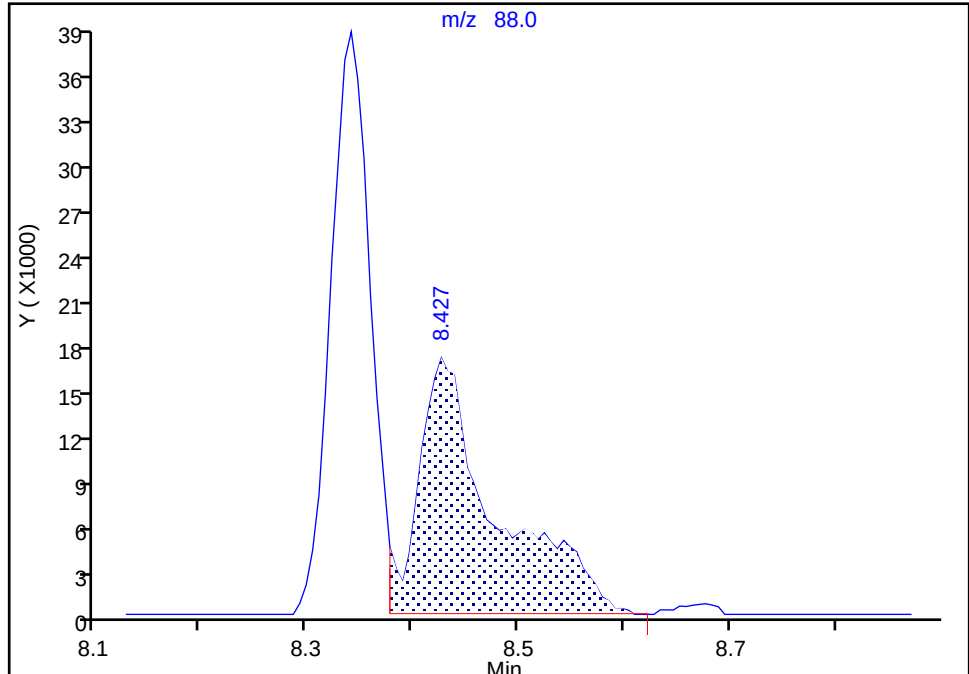
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
Injection Date: 17-Oct-2023 09:43:30 Instrument ID: 19094
Lims ID: IC std7 25
Client ID:
Operator ID: GAW91131 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

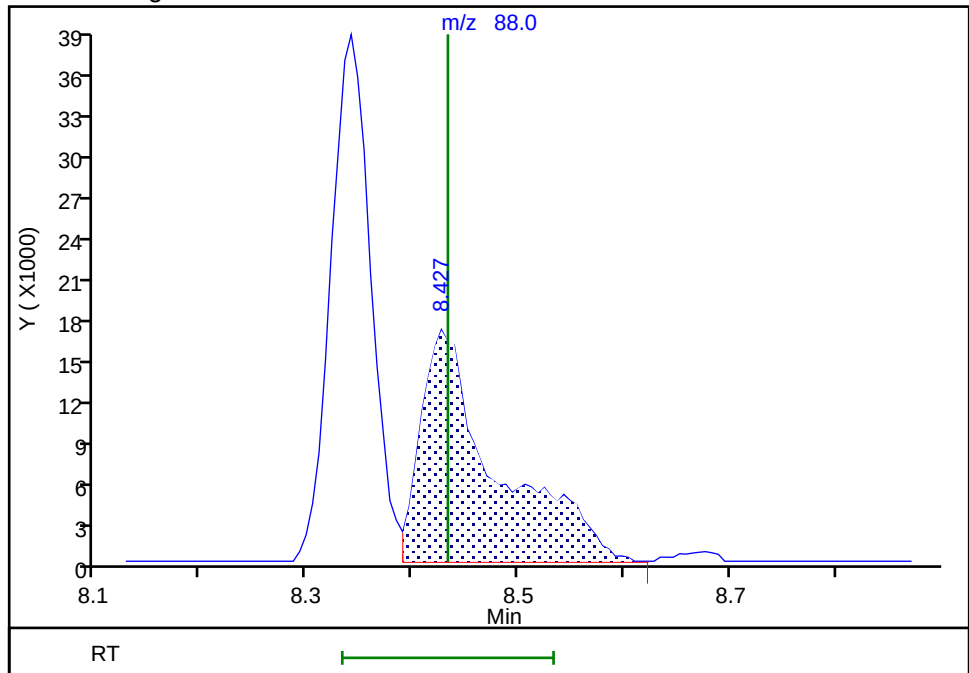
RT: 8.43
Area: 85997
Amount: 1238.2805
Amount Units: ug/l

Processing Integration Results



RT: 8.43
Area: 83291
Amount: 1153.6499
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:40:27 -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

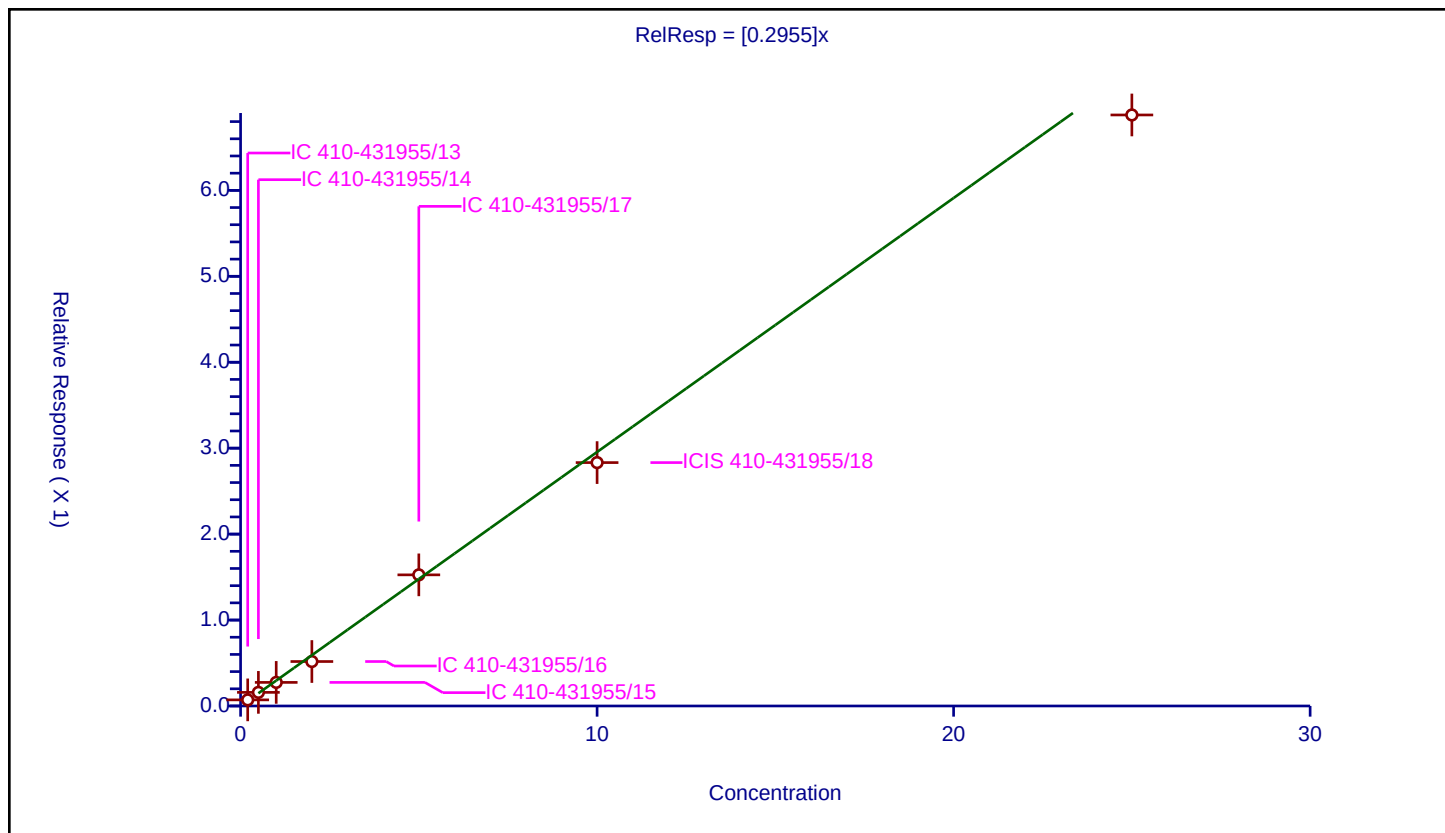
Curve Coefficients

Intercept: 0
Slope: 0.2955

Error Coefficients

Standard Error: 578000
Relative Standard Error: 11.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.071073	10.0	1727945.0	0.355364	Y
2	IC 410-431955/14	0.5	0.158437	10.0	1732238.0	0.316873	Y
3	IC 410-431955/15	1.0	0.274329	10.0	1719834.0	0.274329	Y
4	IC 410-431955/16	2.0	0.517373	10.0	1746844.0	0.258687	Y
5	IC 410-431955/17	5.0	1.52598	10.0	1767939.0	0.305196	Y
6	ICIS 410-431955/18	10.0	2.832358	10.0	1790766.0	0.283236	Y
7	IC 410-431955/19	25.0	6.877259	10.0	1875183.0	0.27509	Y



Calibration

/ Chloromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

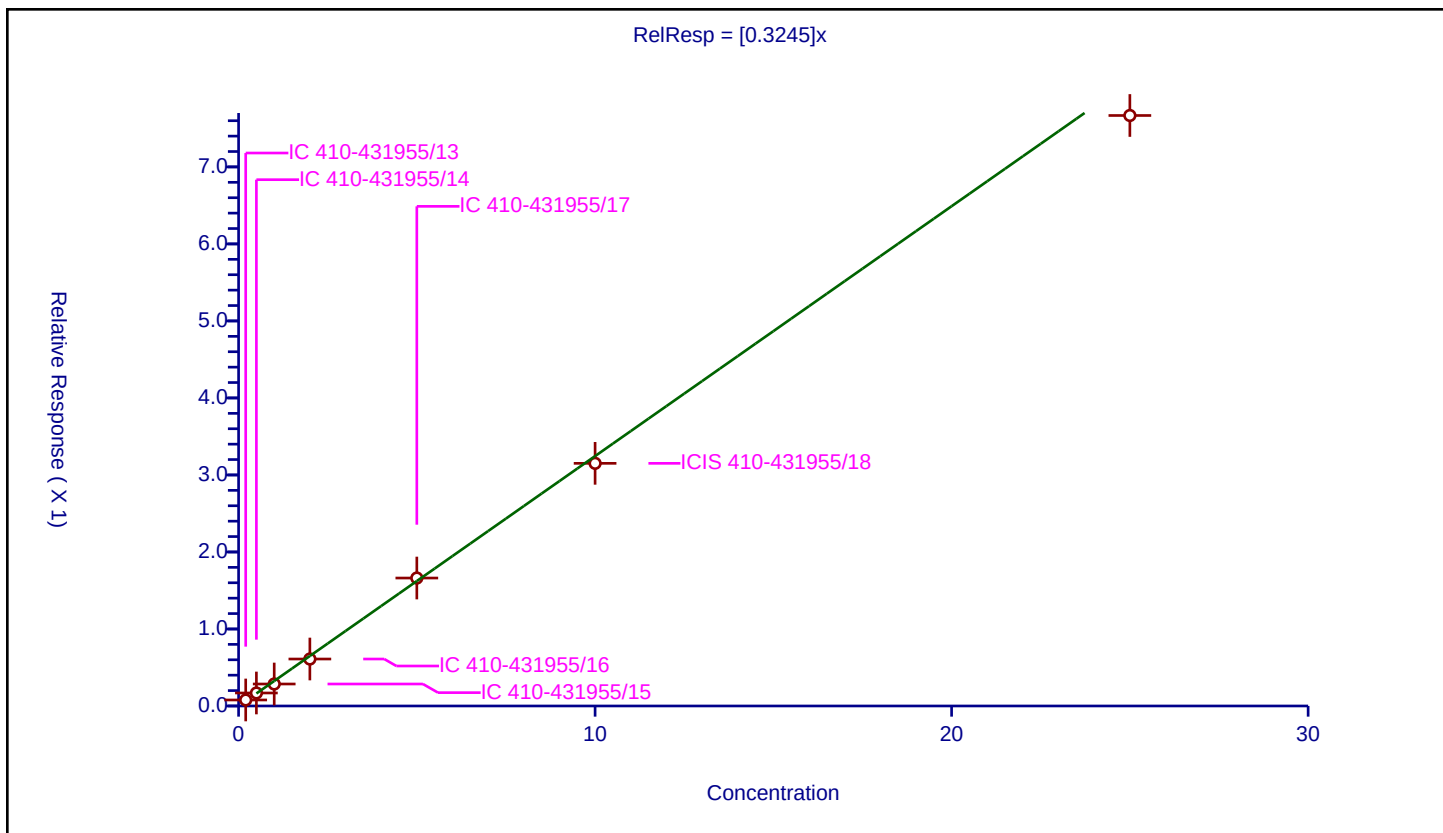
Curve Coefficients

Intercept: 0
 Slope: 0.3245

Error Coefficients

Standard Error: 644000
 Relative Standard Error: 10.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.077931	10.0	1727945.0	0.389654	Y
2	IC 410-431955/14	0.5	0.168672	10.0	1732238.0	0.337344	Y
3	IC 410-431955/15	1.0	0.285336	10.0	1719834.0	0.285336	Y
4	IC 410-431955/16	2.0	0.609854	10.0	1746844.0	0.304927	Y
5	IC 410-431955/17	5.0	1.661624	10.0	1767939.0	0.332325	Y
6	ICIS 410-431955/18	10.0	3.150791	10.0	1790766.0	0.315079	Y
7	IC 410-431955/19	25.0	7.66779	10.0	1875183.0	0.306712	Y



Calibration

/ Vinyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

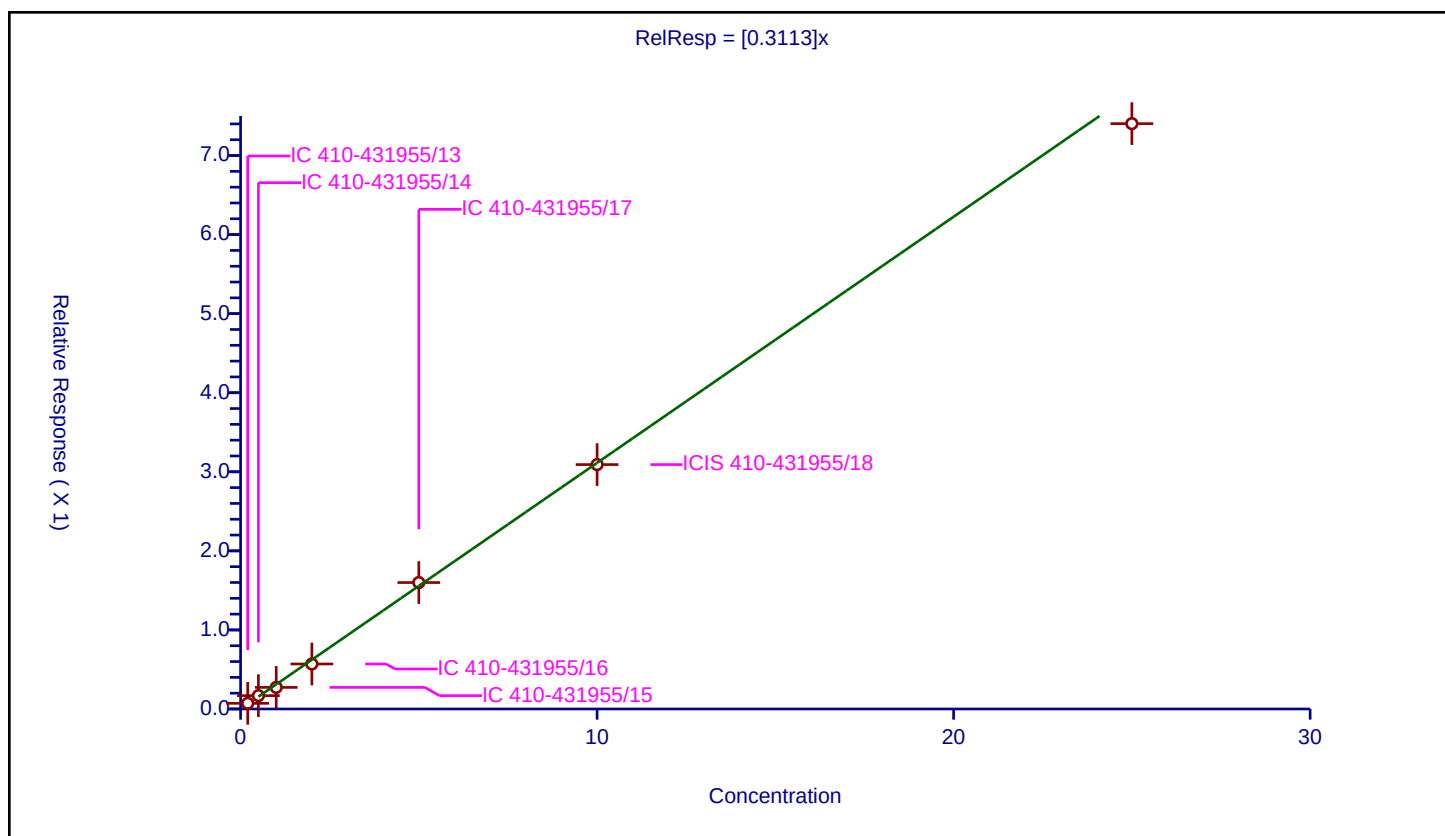
Curve Coefficients

Intercept: 0
Slope: 0.3113

Error Coefficients

Standard Error: 623000
Relative Standard Error: 9.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.071738	10.0	1727945.0	0.358692	Y
2	IC 410-431955/14	0.5	0.168811	10.0	1732238.0	0.337621	Y
3	IC 410-431955/15	1.0	0.273032	10.0	1719834.0	0.273032	Y
4	IC 410-431955/16	2.0	0.568998	10.0	1746844.0	0.284499	Y
5	IC 410-431955/17	5.0	1.599235	10.0	1767939.0	0.319847	Y
6	ICIS 410-431955/18	10.0	3.091353	10.0	1790766.0	0.309135	Y
7	IC 410-431955/19	25.0	7.403635	10.0	1875183.0	0.296145	Y



Calibration

/ Butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

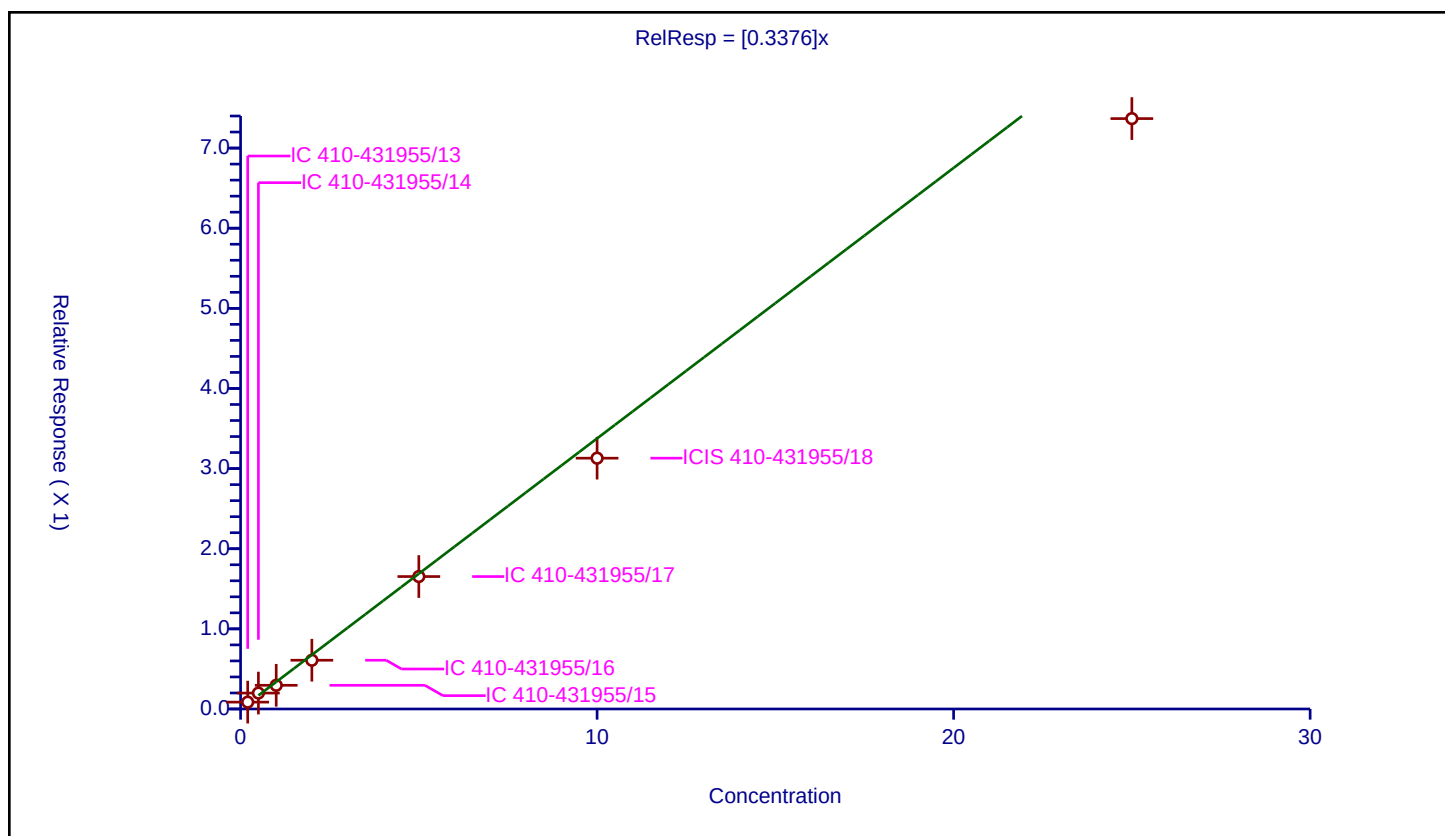
Curve Coefficients

Intercept: 0
Slope: 0.3376

Error Coefficients

Standard Error: 622000
Relative Standard Error: 15.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.959

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.085622	10.0	1727945.0	0.42811	Y
2	IC 410-431955/14	0.5	0.198541	10.0	1732238.0	0.397082	Y
3	IC 410-431955/15	1.0	0.295552	10.0	1719834.0	0.295552	Y
4	IC 410-431955/16	2.0	0.608469	10.0	1746844.0	0.304234	Y
5	IC 410-431955/17	5.0	1.652885	10.0	1767939.0	0.330577	Y
6	ICIS 410-431955/18	10.0	3.130169	10.0	1790766.0	0.313017	Y
7	IC 410-431955/19	25.0	7.367729	10.0	1875183.0	0.294709	Y



Calibration

/ Bromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

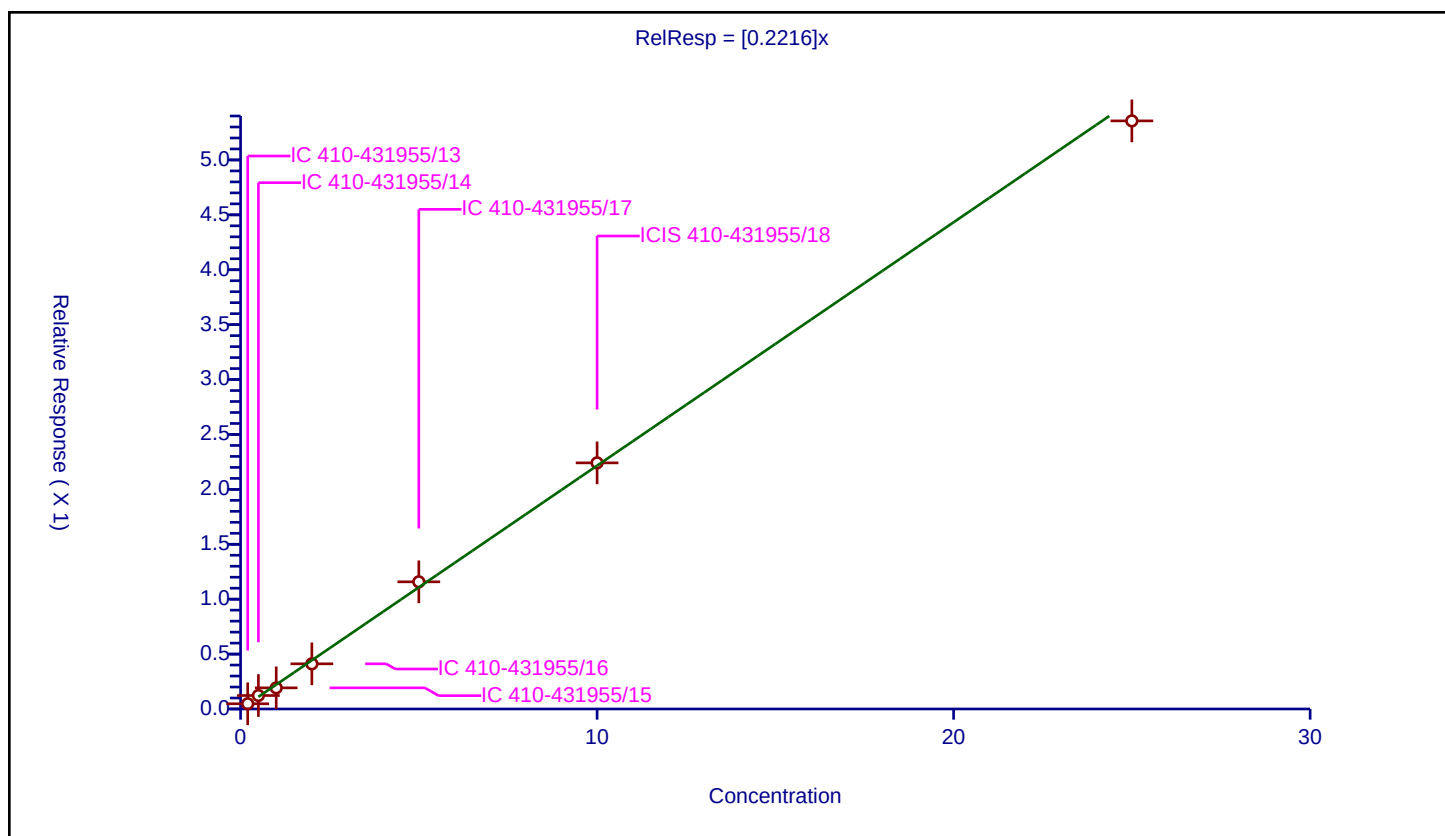
Curve Coefficients

Intercept: 0
 Slope: 0.2216

Error Coefficients

Standard Error: 451000
 Relative Standard Error: 8.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.047502	10.0	1727945.0	0.237508	Y
2	IC 410-431955/14	0.5	0.122864	10.0	1732238.0	0.245728	Y
3	IC 410-431955/15	1.0	0.192449	10.0	1719834.0	0.192449	Y
4	IC 410-431955/16	2.0	0.411307	10.0	1746844.0	0.205654	Y
5	IC 410-431955/17	5.0	1.158089	10.0	1767939.0	0.231618	Y
6	ICIS 410-431955/18	10.0	2.241393	10.0	1790766.0	0.224139	Y
7	IC 410-431955/19	25.0	5.355515	10.0	1875183.0	0.214221	Y



Calibration

/ Chloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

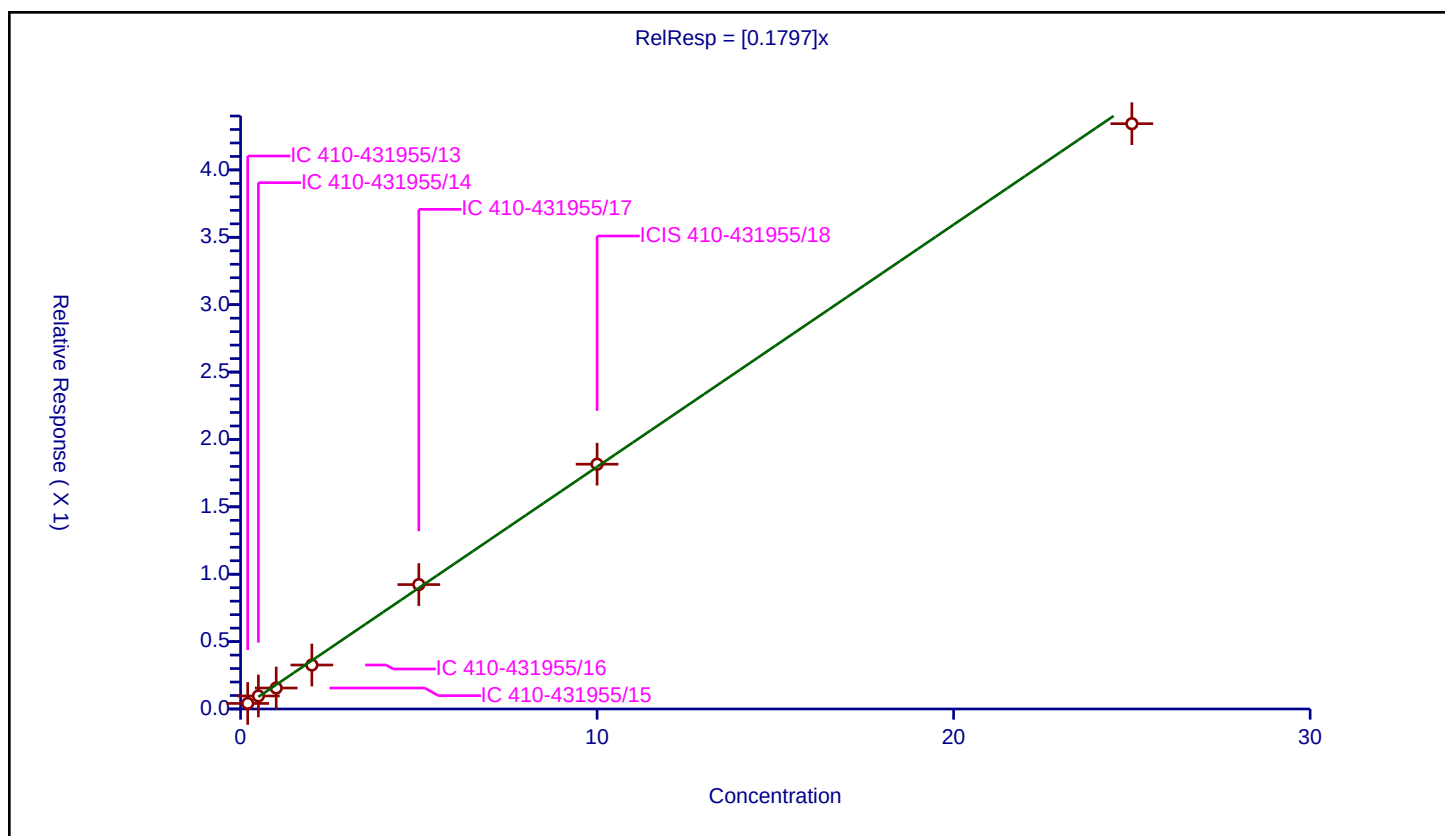
Curve Coefficients

Intercept: 0
Slope: 0.1797

Error Coefficients

Standard Error: 365000
Relative Standard Error: 9.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.04117	10.0	1727945.0	0.205851	Y
2	IC 410-431955/14	0.5	0.096592	10.0	1732238.0	0.193184	Y
3	IC 410-431955/15	1.0	0.155596	10.0	1719834.0	0.155596	Y
4	IC 410-431955/16	2.0	0.326337	10.0	1746844.0	0.163169	Y
5	IC 410-431955/17	5.0	0.923222	10.0	1767939.0	0.184644	Y
6	ICIS 410-431955/18	10.0	1.816463	10.0	1790766.0	0.181646	Y
7	IC 410-431955/19	25.0	4.343229	10.0	1875183.0	0.173729	Y



Calibration

/ Dichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

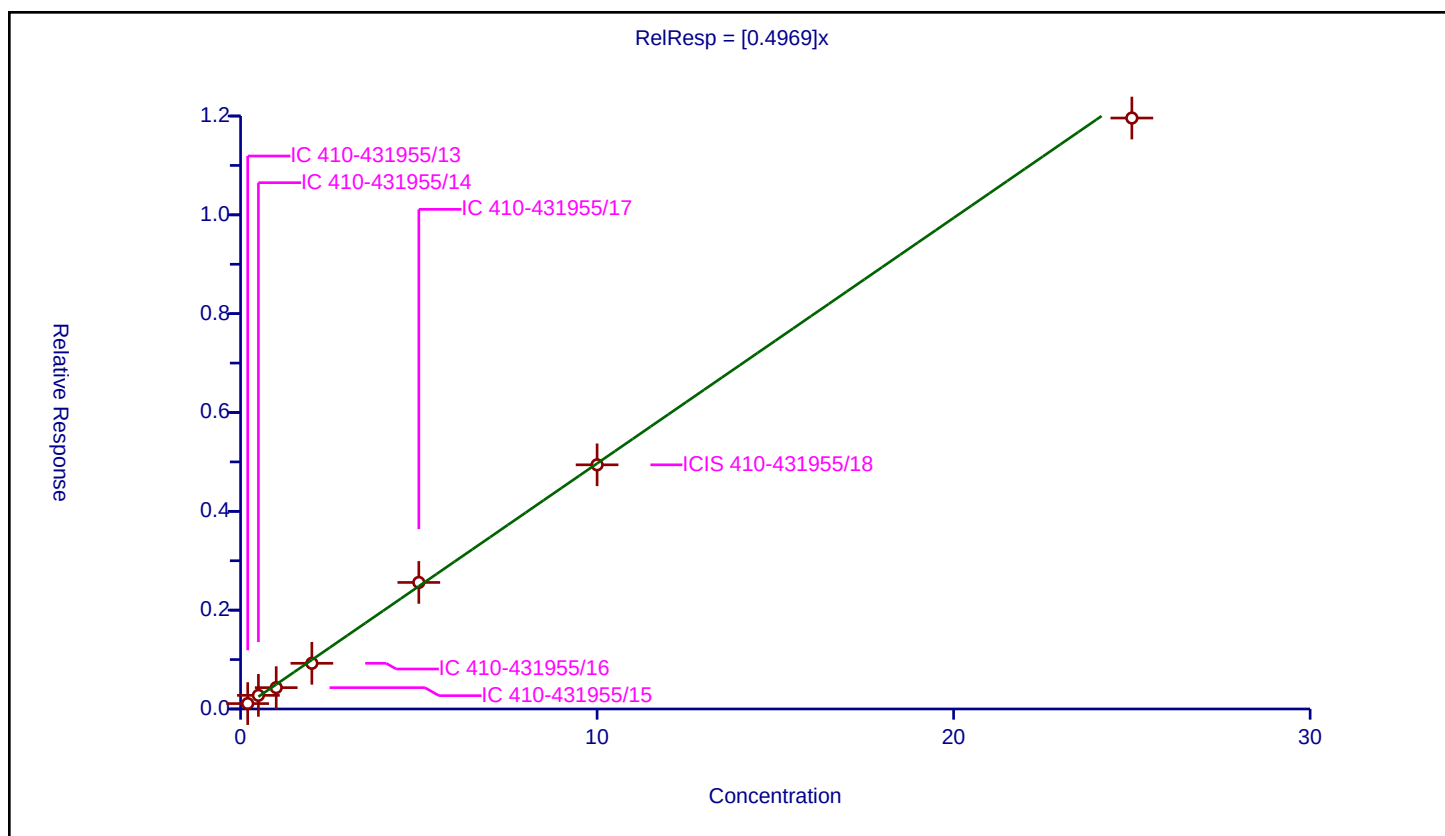
Curve Coefficients

Intercept: 0
Slope: 0.4969

Error Coefficients

Standard Error: 1000000
Relative Standard Error: 8.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.109413	10.0	1727945.0	0.547066	Y
2	IC 410-431955/14	0.5	0.276001	10.0	1732238.0	0.552003	Y
3	IC 410-431955/15	1.0	0.431937	10.0	1719834.0	0.431937	Y
4	IC 410-431955/16	2.0	0.924782	10.0	1746844.0	0.462391	Y
5	IC 410-431955/17	5.0	2.560682	10.0	1767939.0	0.512136	Y
6	ICIS 410-431955/18	10.0	4.941394	10.0	1790766.0	0.494139	Y
7	IC 410-431955/19	25.0	11.959201	10.0	1875183.0	0.478368	Y



Calibration

/ Trichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

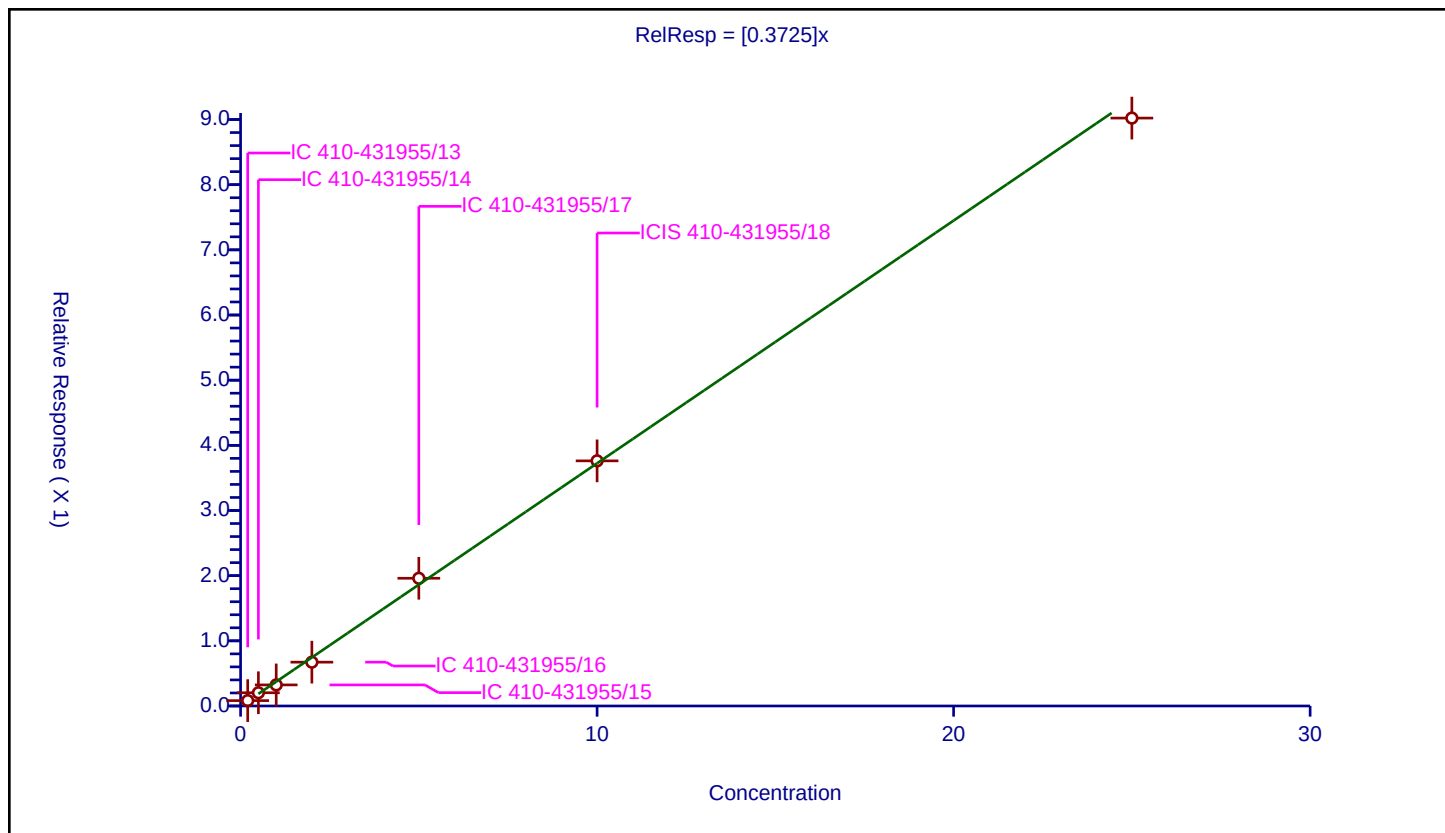
Curve Coefficients

Intercept: 0
 Slope: 0.3725

Error Coefficients

Standard Error: 759000
 Relative Standard Error: 9.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.082433	10.0	1727945.0	0.412166	Y
2	IC 410-431955/14	0.5	0.203119	10.0	1732238.0	0.406237	Y
3	IC 410-431955/15	1.0	0.323572	10.0	1719834.0	0.323572	Y
4	IC 410-431955/16	2.0	0.672413	10.0	1746844.0	0.336206	Y
5	IC 410-431955/17	5.0	1.959887	10.0	1767939.0	0.391977	Y
6	ICIS 410-431955/18	10.0	3.761781	10.0	1790766.0	0.376178	Y
7	IC 410-431955/19	25.0	9.022106	10.0	1875183.0	0.360884	Y



Calibration

/ Ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

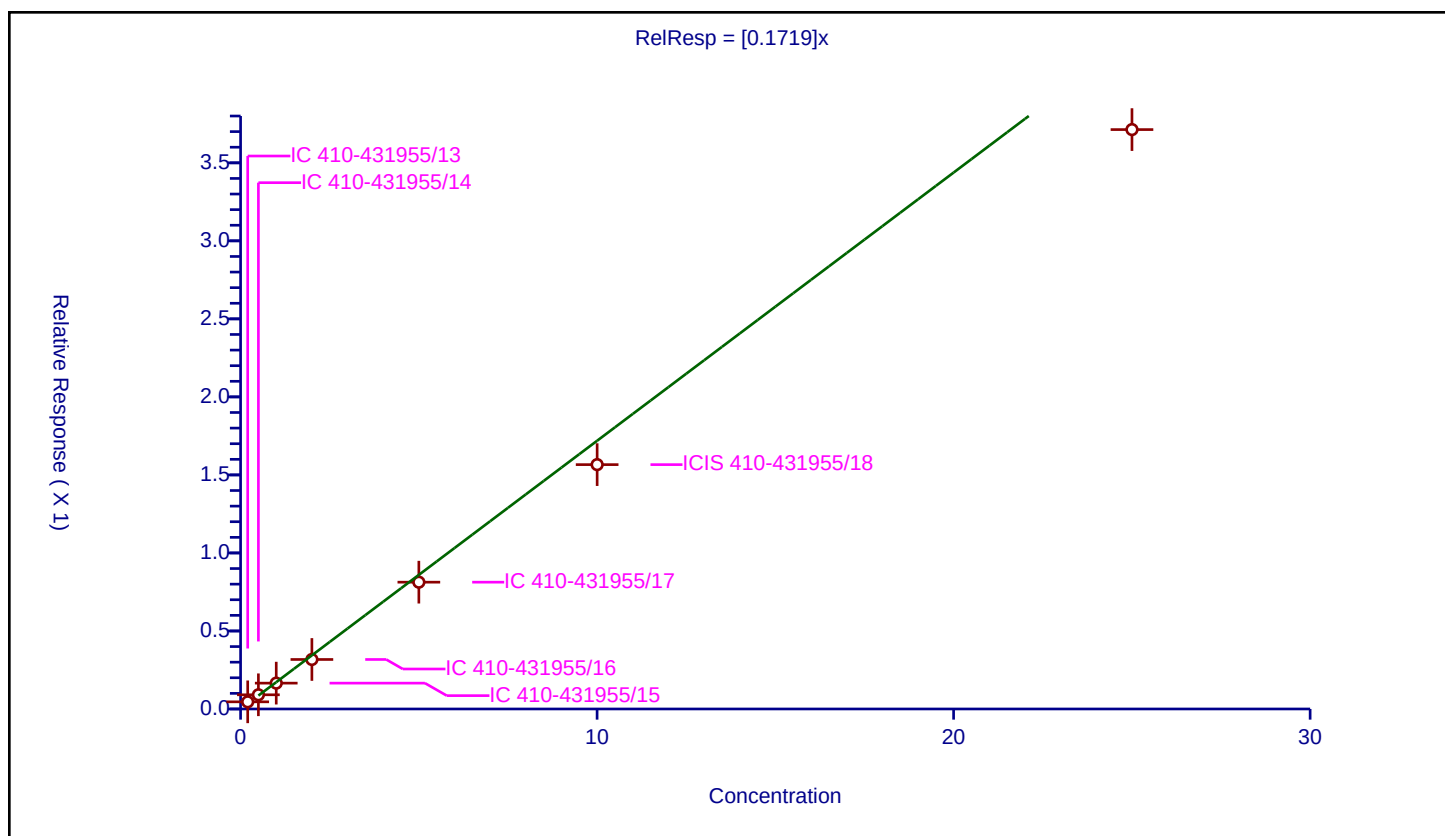
Curve Coefficients

Intercept: 0
Slope: 0.1719

Error Coefficients

Standard Error: 313000
Relative Standard Error: 15.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.956

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.200027	0.045881	10.0	1727945.0	0.229374	Y
2	IC 410-431955/14	0.500068	0.090981	10.0	1732238.0	0.181937	Y
3	IC 410-431955/15	1.000135	0.165685	10.0	1719834.0	0.165662	Y
4	IC 410-431955/16	2.00027	0.317224	10.0	1746844.0	0.15859	Y
5	IC 410-431955/17	5.000676	0.812585	10.0	1767939.0	0.162495	Y
6	ICIS 410-431955/18	10.001352	1.565972	10.0	1790766.0	0.156576	Y
7	IC 410-431955/19	25.00338	3.713088	10.0	1875183.0	0.148503	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

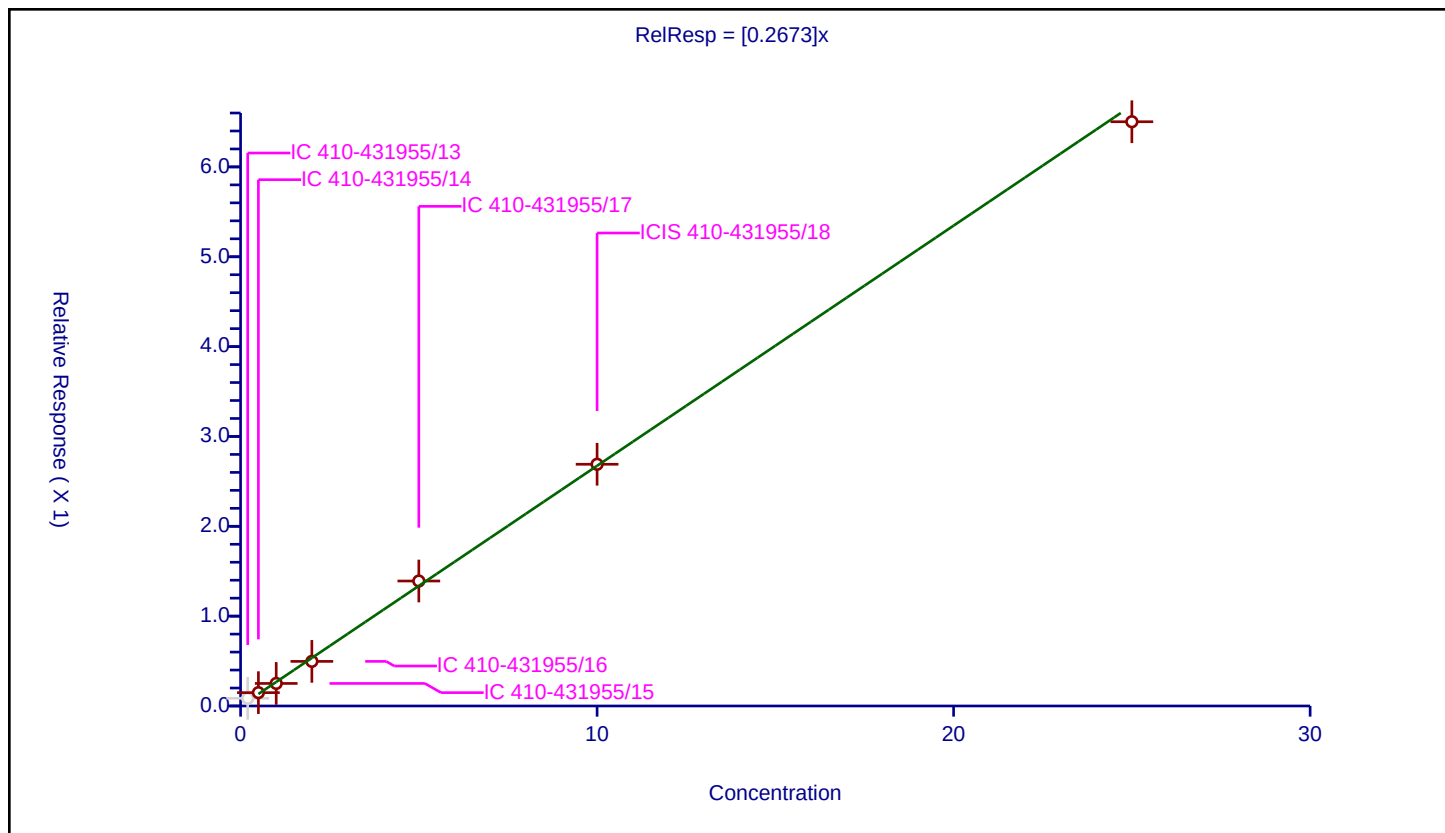
Curve Coefficients

Intercept: 0
Slope: 0.2673

Error Coefficients

Standard Error: 598000
Relative Standard Error: 6.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.085662	10.0	1727945.0	0.428312	N
2	IC 410-431955/14	0.5	0.148646	10.0	1732238.0	0.297292	Y
3	IC 410-431955/15	1.0	0.251071	10.0	1719834.0	0.251071	Y
4	IC 410-431955/16	2.0	0.496495	10.0	1746844.0	0.248248	Y
5	IC 410-431955/17	5.0	1.390896	10.0	1767939.0	0.278179	Y
6	ICIS 410-431955/18	10.0	2.690346	10.0	1790766.0	0.269035	Y
7	IC 410-431955/19	25.0	6.50296	10.0	1875183.0	0.260118	Y



Calibration

/ Acrolein

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

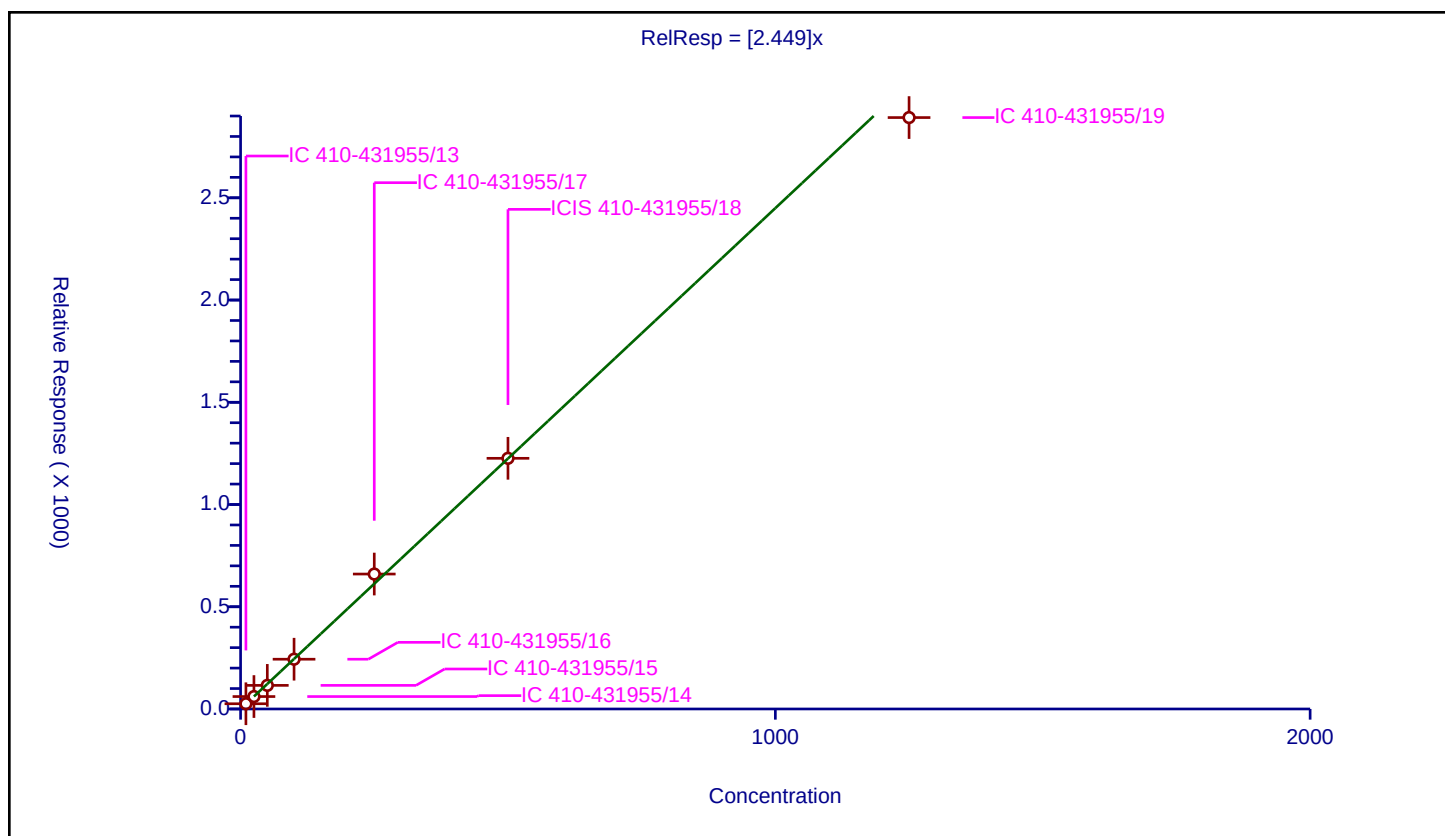
Curve Coefficients

Intercept: 0
Slope: 2.449

Error Coefficients

Standard Error: 2410000
Relative Standard Error: 4.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	10.000241	25.636747	50.0	75501.0	2.563613	Y
2	IC 410-431955/14	25.000603	60.833766	50.0	75057.0	2.433292	Y
3	IC 410-431955/15	50.001207	115.451476	50.0	79384.0	2.308974	Y
4	IC 410-431955/16	100.002413	243.473949	50.0	77137.0	2.434681	Y
5	IC 410-431955/17	250.006033	659.95005	50.0	78879.0	2.639737	Y
6	ICIS 410-431955/18	500.012065	1226.024558	50.0	83963.0	2.45199	Y
7	IC 410-431955/19	1250.030164	2892.434702	50.0	93724.0	2.313892	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

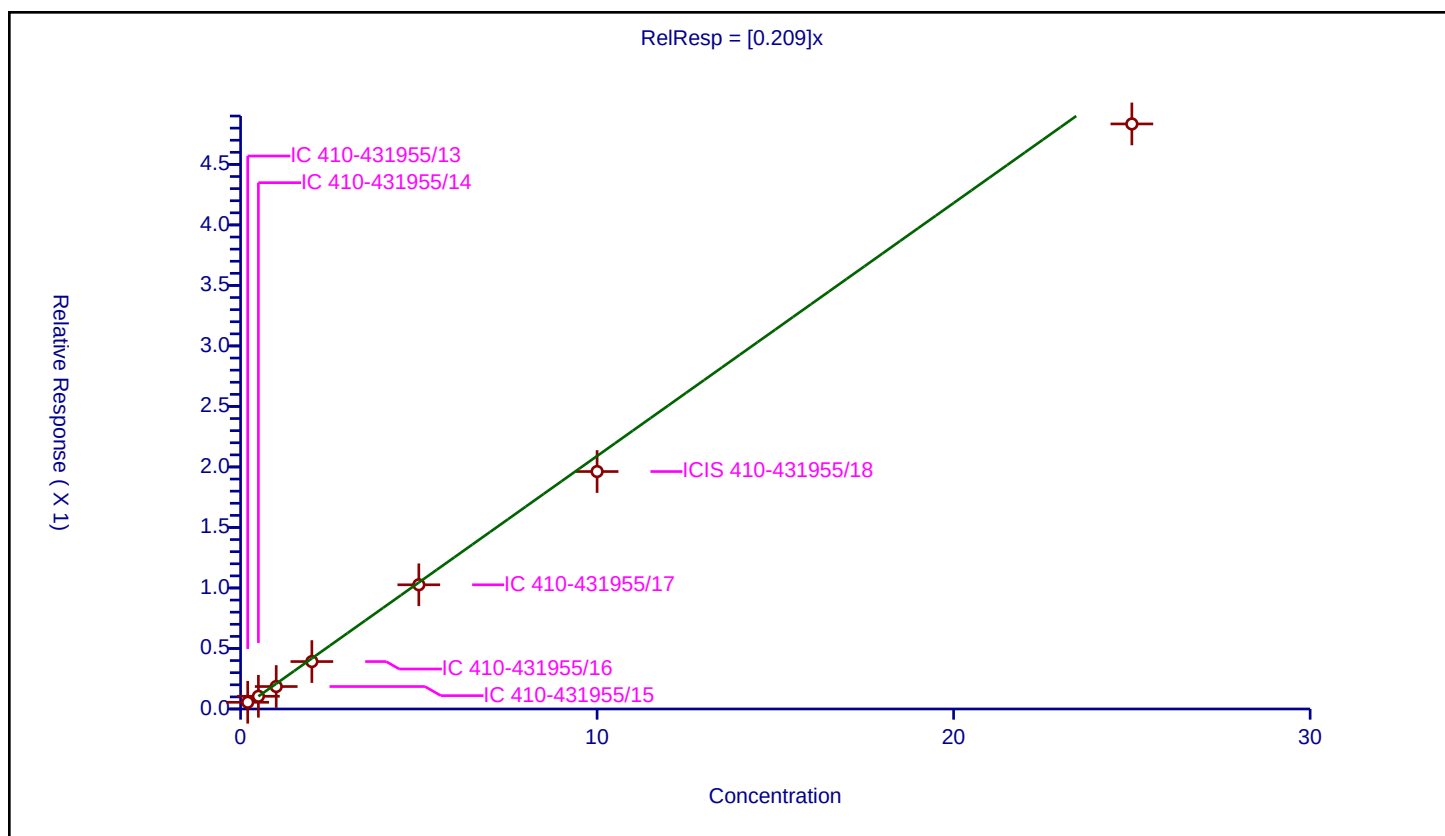
Curve Coefficients

Intercept: 0
 Slope: 0.209

Error Coefficients

Standard Error: 405000
 Relative Standard Error: 14.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.963

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.055424	10.0	1727945.0	0.277121	Y
2	IC 410-431955/14	0.5	0.104899	10.0	1732238.0	0.209798	Y
3	IC 410-431955/15	1.0	0.185588	10.0	1719834.0	0.185588	Y
4	IC 410-431955/16	2.0	0.391827	10.0	1746844.0	0.195913	Y
5	IC 410-431955/17	5.0	1.026353	10.0	1767939.0	0.205271	Y
6	ICIS 410-431955/18	10.0	1.962261	10.0	1790766.0	0.196226	Y
7	IC 410-431955/19	25.0	4.834568	10.0	1875183.0	0.193383	Y



Calibration

/ Acetone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

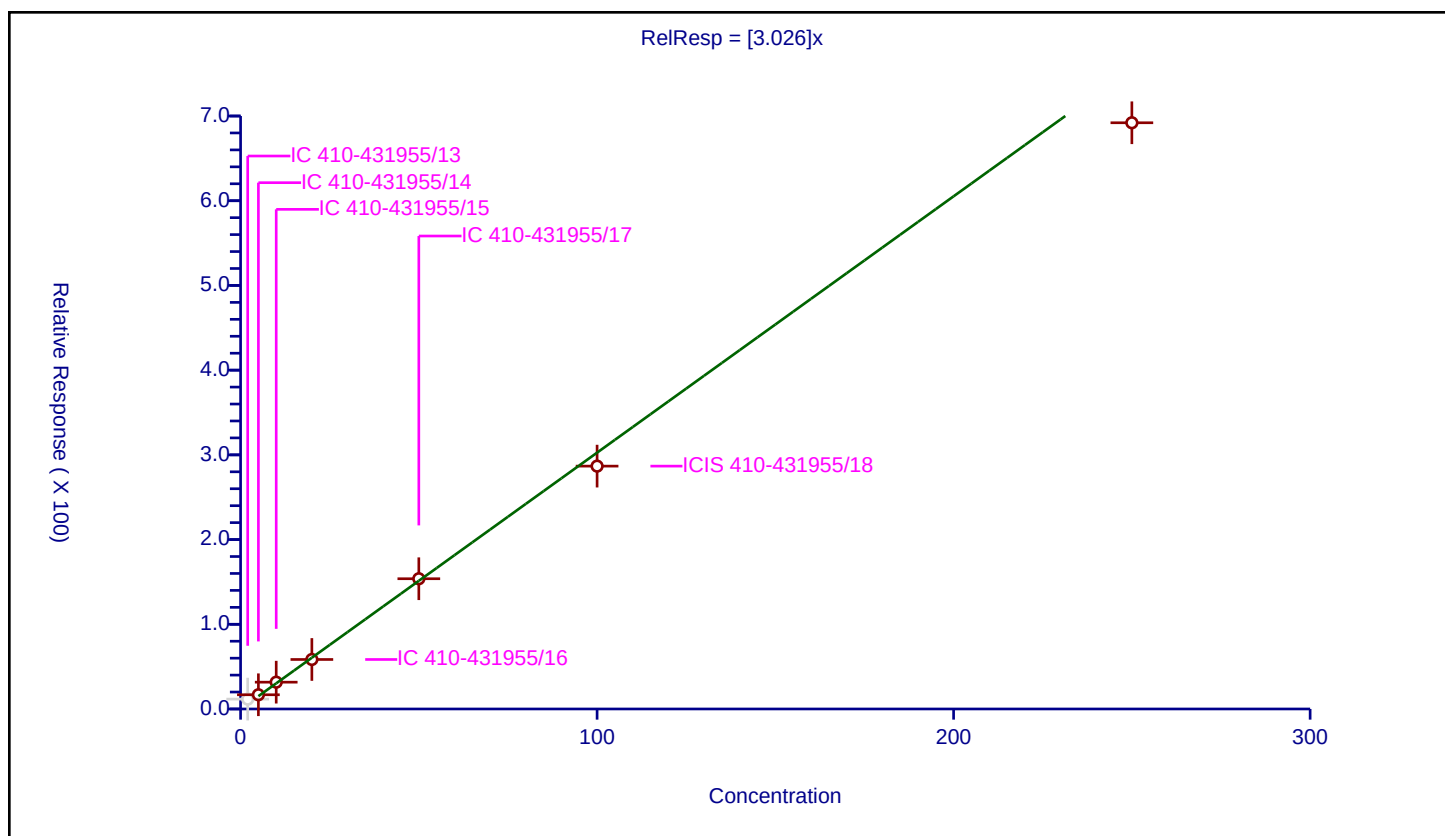
Curve Coefficients

Intercept: 0
Slope: 3.026

Error Coefficients

Standard Error: 630000
Relative Standard Error: 7.2
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	2.0	11.672693	50.0	75501.0	5.836347	N
2	IC 410-431955/14	5.0	16.787908	50.0	75057.0	3.357582	Y
3	IC 410-431955/15	10.0	31.660032	50.0	79384.0	3.166003	Y
4	IC 410-431955/16	20.0	58.442771	50.0	77137.0	2.922139	Y
5	IC 410-431955/17	50.0	153.754485	50.0	78879.0	3.07509	Y
6	ICIS 410-431955/18	100.0	286.709027	50.0	83963.0	2.86709	Y
7	IC 410-431955/19	250.0	692.030323	50.0	93724.0	2.768121	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

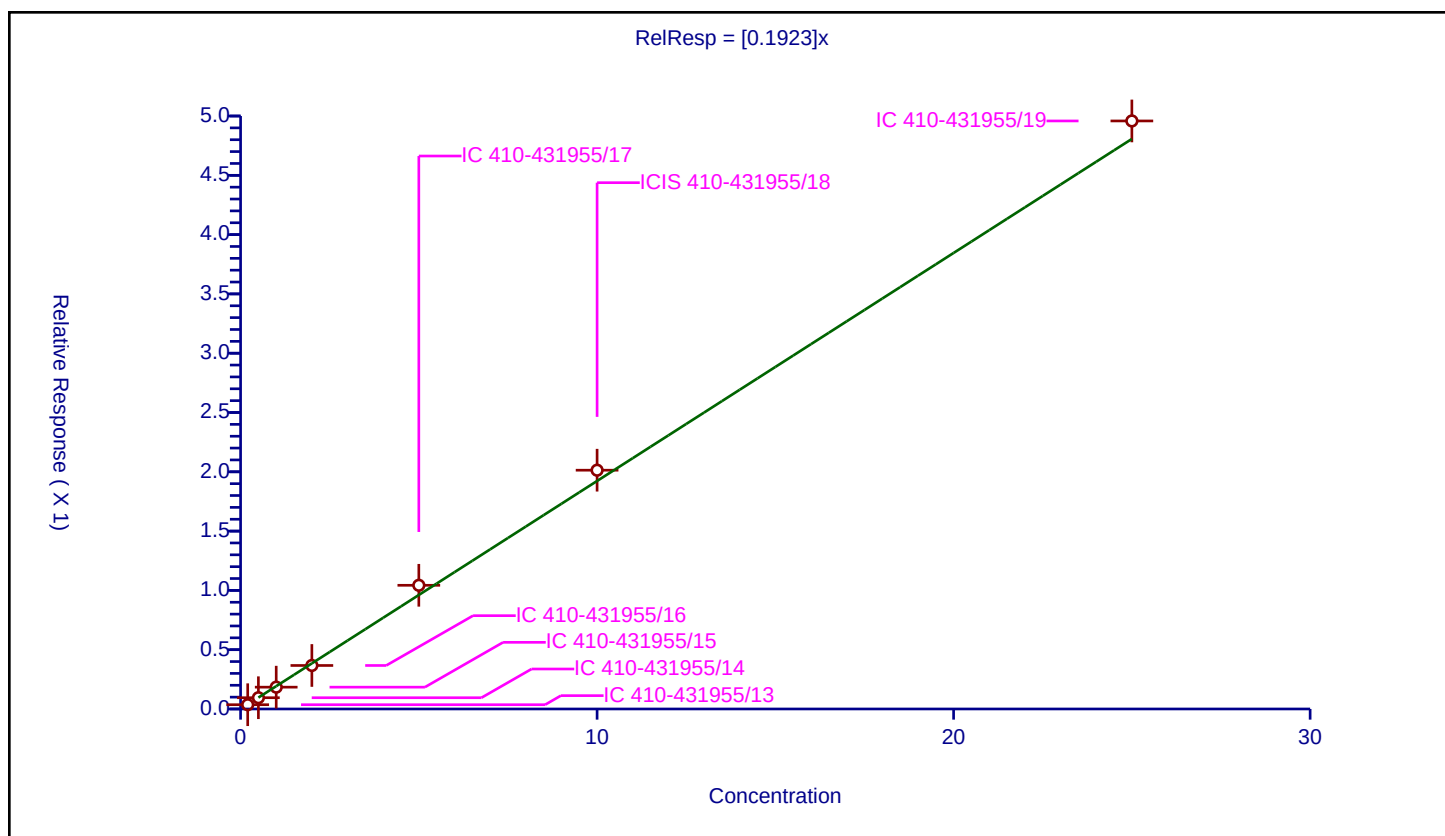
Curve Coefficients

Intercept: 0
 Slope: 0.1923

Error Coefficients

Standard Error: 415000
 Relative Standard Error: 5.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.036083	10.0	1727945.0	0.180417	Y
2	IC 410-431955/14	0.5	0.094889	10.0	1732238.0	0.189778	Y
3	IC 410-431955/15	1.0	0.183971	10.0	1719834.0	0.183971	Y
4	IC 410-431955/16	2.0	0.366867	10.0	1746844.0	0.183434	Y
5	IC 410-431955/17	5.0	1.042983	10.0	1767939.0	0.208597	Y
6	ICIS 410-431955/18	10.0	2.013384	10.0	1790766.0	0.201338	Y
7	IC 410-431955/19	25.0	4.958487	10.0	1875183.0	0.198339	Y



Calibration

/ Iodomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

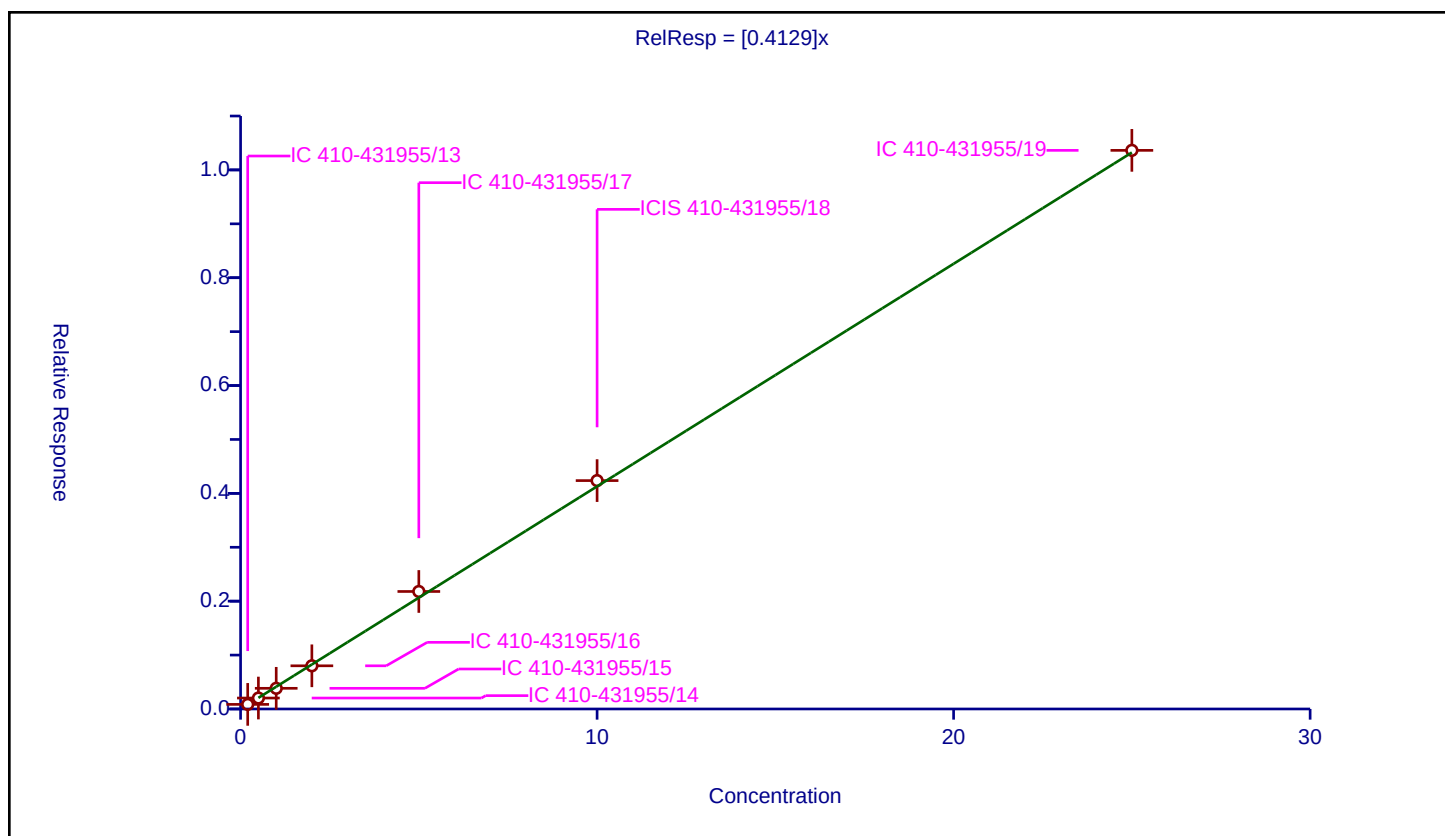
Curve Coefficients

Intercept: 0
Slope: 0.4129

Error Coefficients

Standard Error: 868000
Relative Standard Error: 4.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.085263	10.0	1727945.0	0.426316	Y
2	IC 410-431955/14	0.5	0.20283	10.0	1732238.0	0.40566	Y
3	IC 410-431955/15	1.0	0.383857	10.0	1719834.0	0.383857	Y
4	IC 410-431955/16	2.0	0.800942	10.0	1746844.0	0.400471	Y
5	IC 410-431955/17	5.0	2.179939	10.0	1767939.0	0.435988	Y
6	ICIS 410-431955/18	10.0	4.236489	10.0	1790766.0	0.423649	Y
7	IC 410-431955/19	25.0	10.362855	10.0	1875183.0	0.414514	Y



Calibration

/ Ethyl bromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

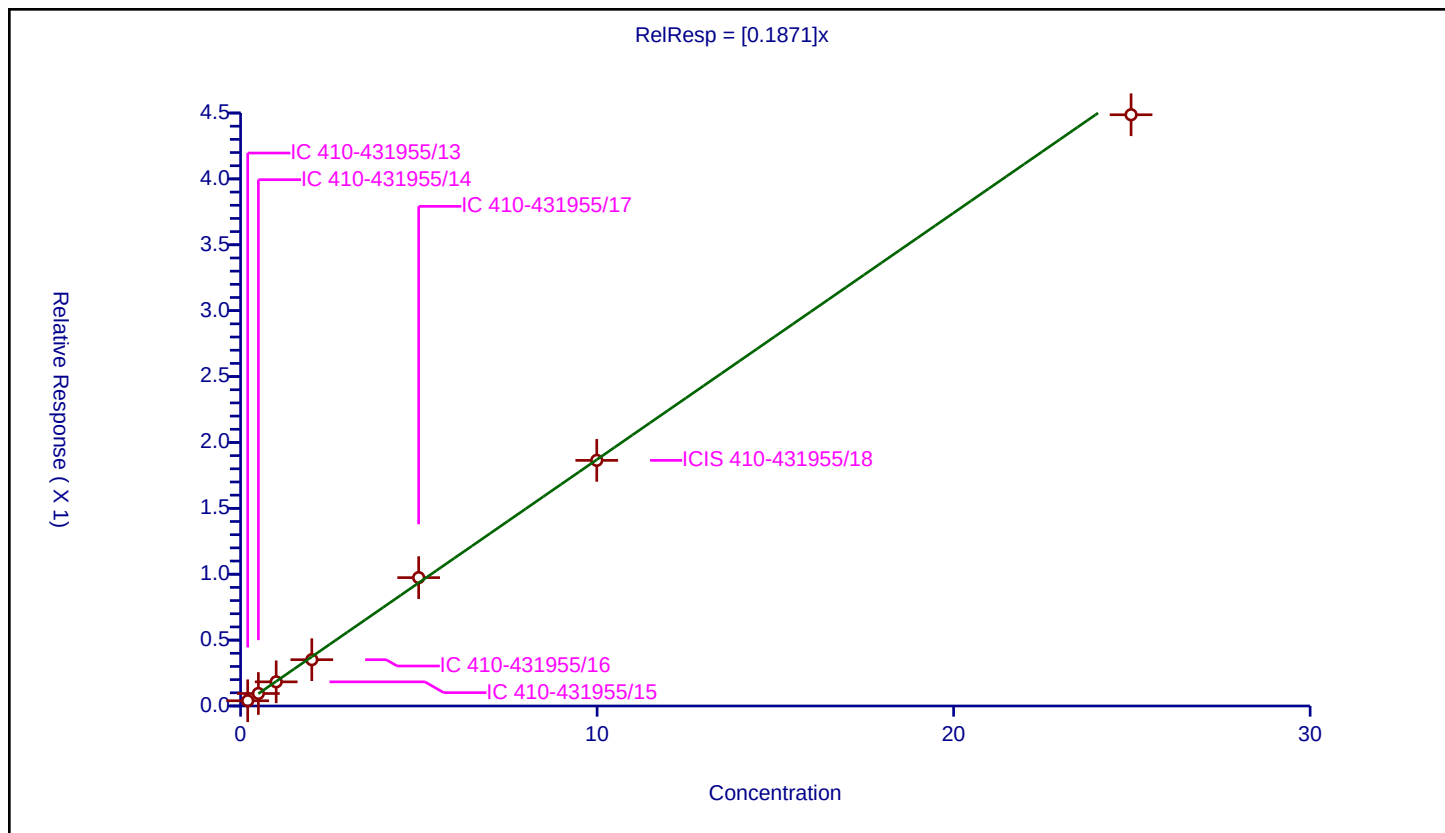
Curve Coefficients

Intercept: 0
Slope: 0.1871

Error Coefficients

Standard Error: 377000
Relative Standard Error: 4.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.199819	0.039799	10.0	1727945.0	0.199174	Y
2	IC 410-431955/14	0.499548	0.094895	10.0	1732238.0	0.189961	Y
3	IC 410-431955/15	0.999096	0.183256	10.0	1719834.0	0.183422	Y
4	IC 410-431955/16	1.998192	0.35148	10.0	1746844.0	0.175899	Y
5	IC 410-431955/17	4.99548	0.974134	10.0	1767939.0	0.195003	Y
6	ICIS 410-431955/18	9.99096	1.863957	10.0	1790766.0	0.186564	Y
7	IC 410-431955/19	24.9774	4.486826	10.0	1875183.0	0.179635	Y



Calibration

/ Carbon disulfide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

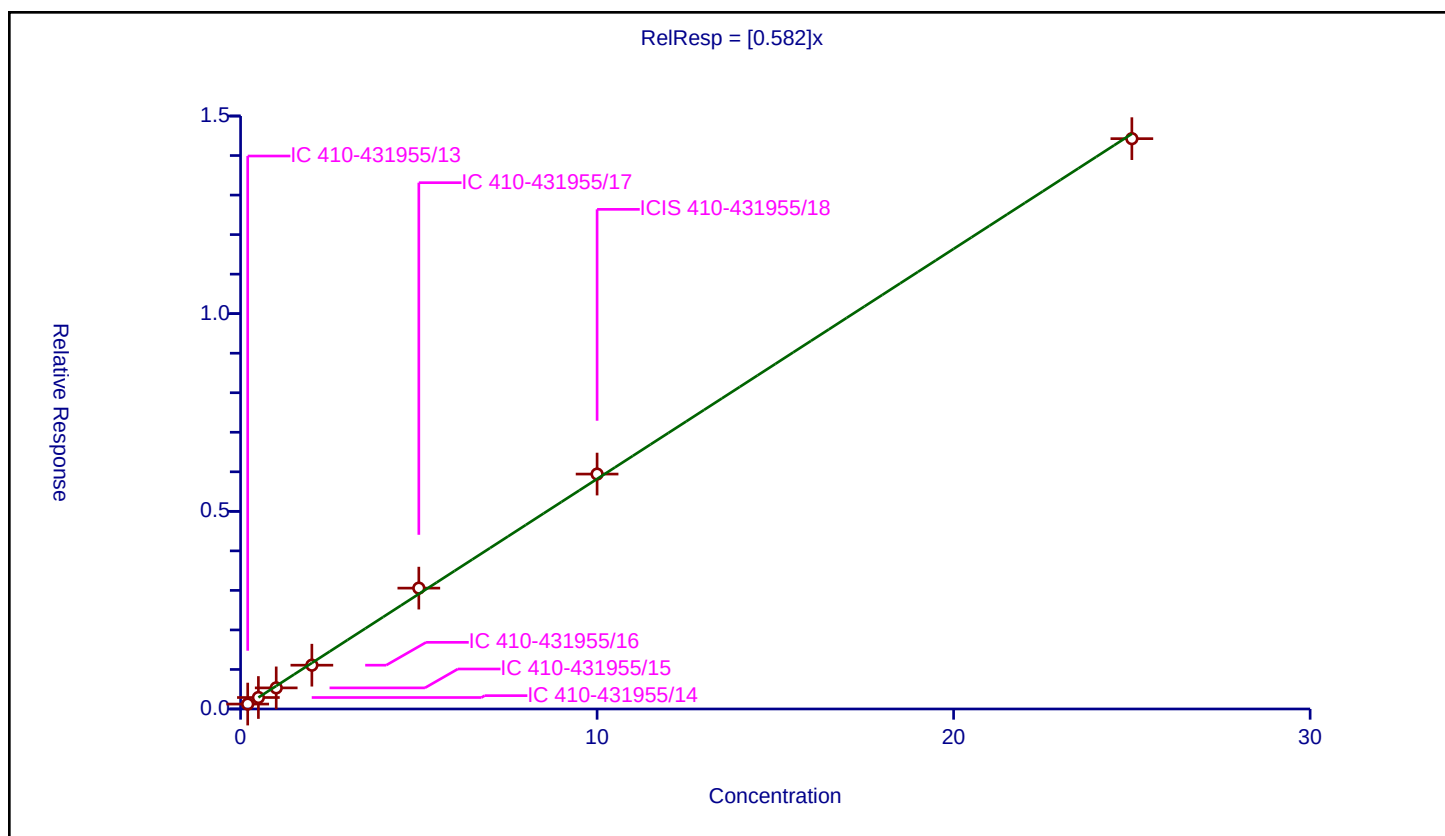
Curve Coefficients

Intercept: 0
Slope: 0.582

Error Coefficients

Standard Error: 1210000
Relative Standard Error: 5.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.124333	10.0	1727945.0	0.621663	Y
2	IC 410-431955/14	0.5	0.290462	10.0	1732238.0	0.580925	Y
3	IC 410-431955/15	1.0	0.534185	10.0	1719834.0	0.534185	Y
4	IC 410-431955/16	2.0	1.108096	10.0	1746844.0	0.554048	Y
5	IC 410-431955/17	5.0	3.057515	10.0	1767939.0	0.611503	Y
6	ICIS 410-431955/18	10.0	5.942775	10.0	1790766.0	0.594278	Y
7	IC 410-431955/19	25.0	14.427163	10.0	1875183.0	0.577087	Y



Calibration

/ Methyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

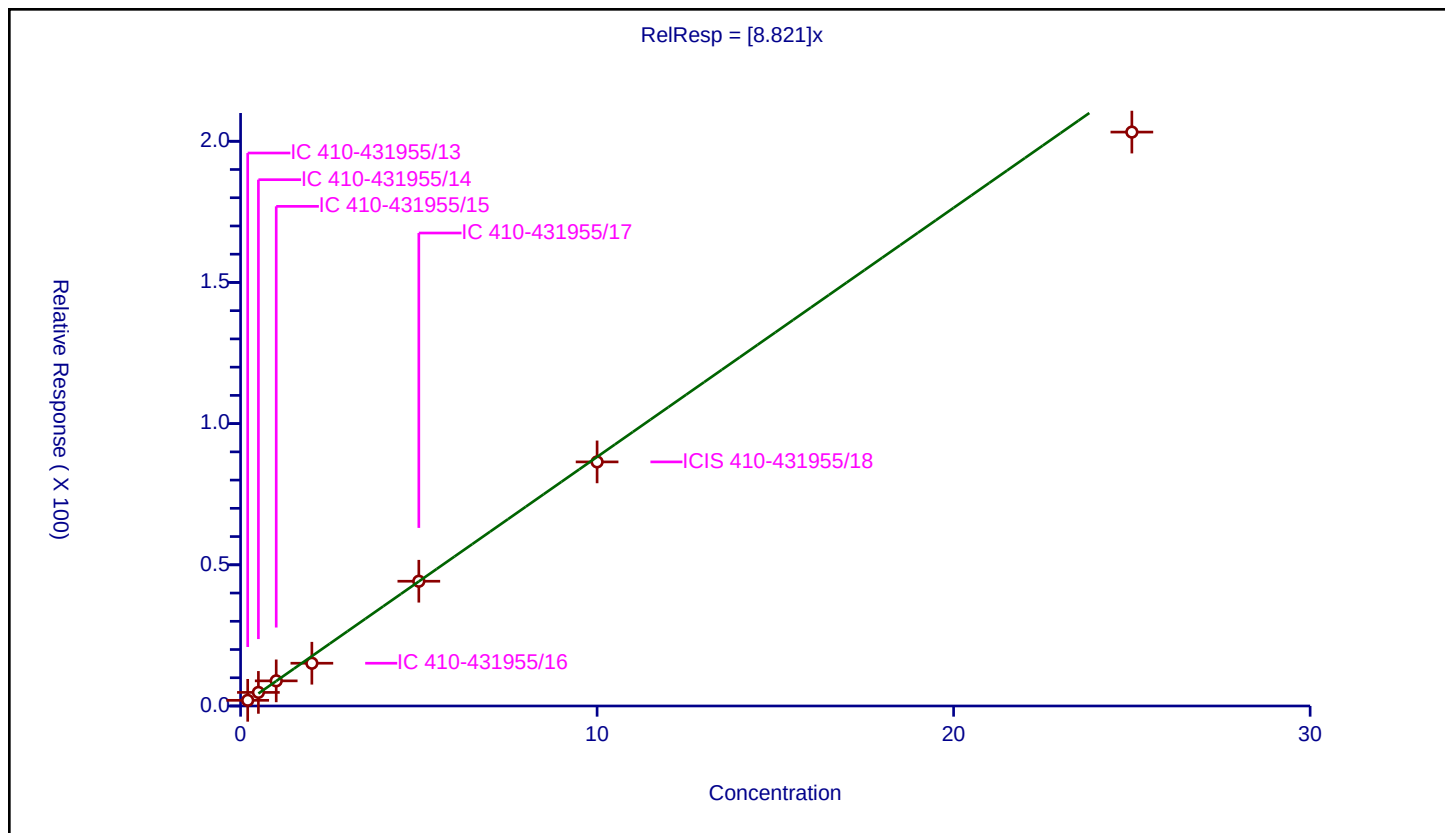
Curve Coefficients

Intercept: 0
Slope: 8.821

Error Coefficients

Standard Error: 169000
Relative Standard Error: 9.5
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	2.008583	50.0	75501.0	10.042913	Y
2	IC 410-431955/14	0.5	4.811676	50.0	75057.0	9.623353	Y
3	IC 410-431955/15	1.0	8.896629	50.0	79384.0	8.896629	Y
4	IC 410-431955/16	2.0	15.143835	50.0	77137.0	7.571917	Y
5	IC 410-431955/17	5.0	44.182862	50.0	78879.0	8.836572	Y
6	ICIS 410-431955/18	10.0	86.44522	50.0	83963.0	8.644522	Y
7	IC 410-431955/19	25.0	203.246767	50.0	93724.0	8.129871	Y



Calibration

/ 3-Chloro-1-propene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

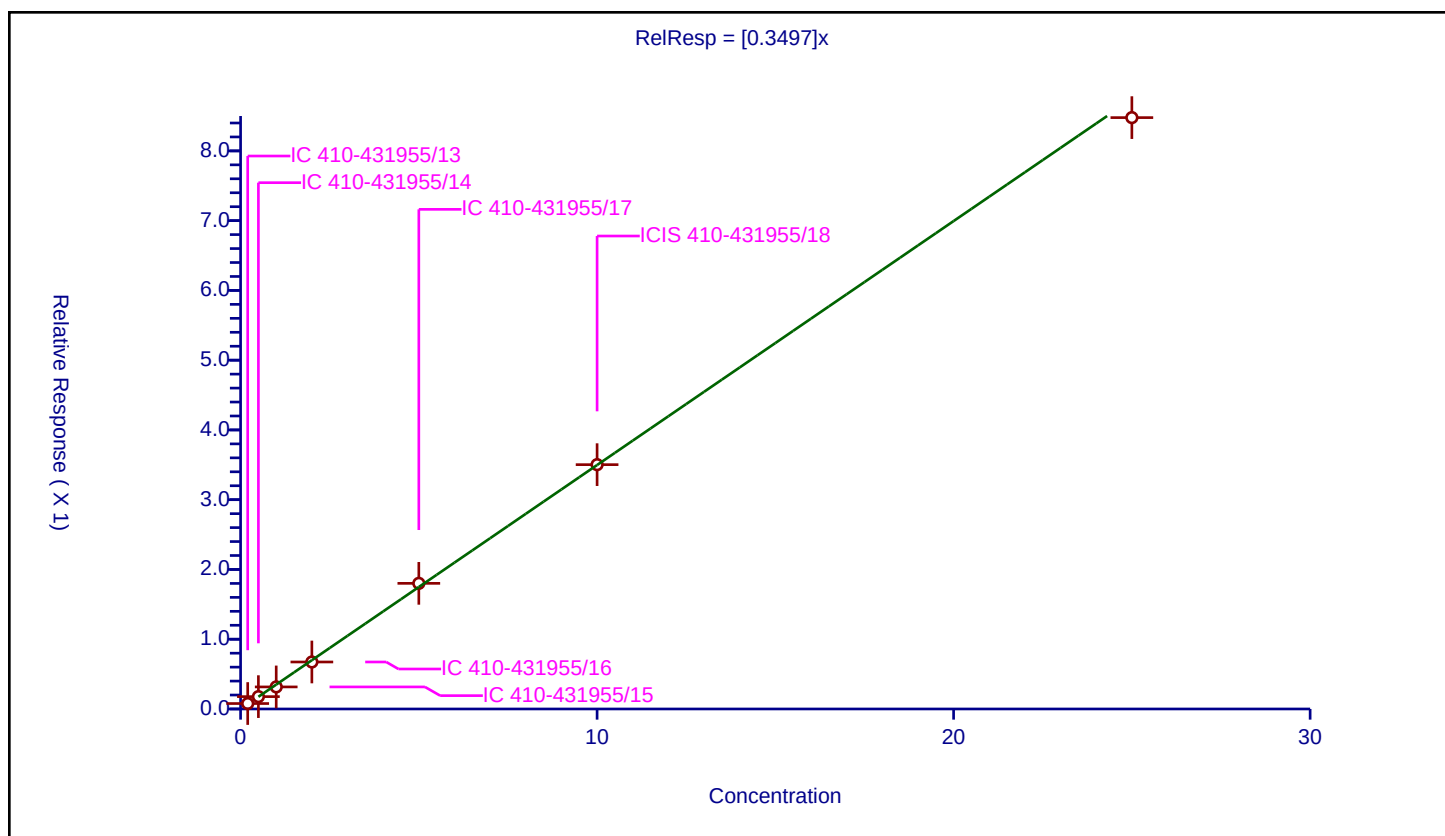
Curve Coefficients

Intercept: 0
Slope: 0.3497

Error Coefficients

Standard Error: 712000
Relative Standard Error: 6.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.078099	10.0	1727945.0	0.390493	Y
2	IC 410-431955/14	0.5	0.177349	10.0	1732238.0	0.354697	Y
3	IC 410-431955/15	1.0	0.316397	10.0	1719834.0	0.316397	Y
4	IC 410-431955/16	2.0	0.673729	10.0	1746844.0	0.336865	Y
5	IC 410-431955/17	5.0	1.800894	10.0	1767939.0	0.360179	Y
6	ICIS 410-431955/18	10.0	3.502362	10.0	1790766.0	0.350236	Y
7	IC 410-431955/19	25.0	8.476895	10.0	1875183.0	0.339076	Y



Calibration

/ Methylene Chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

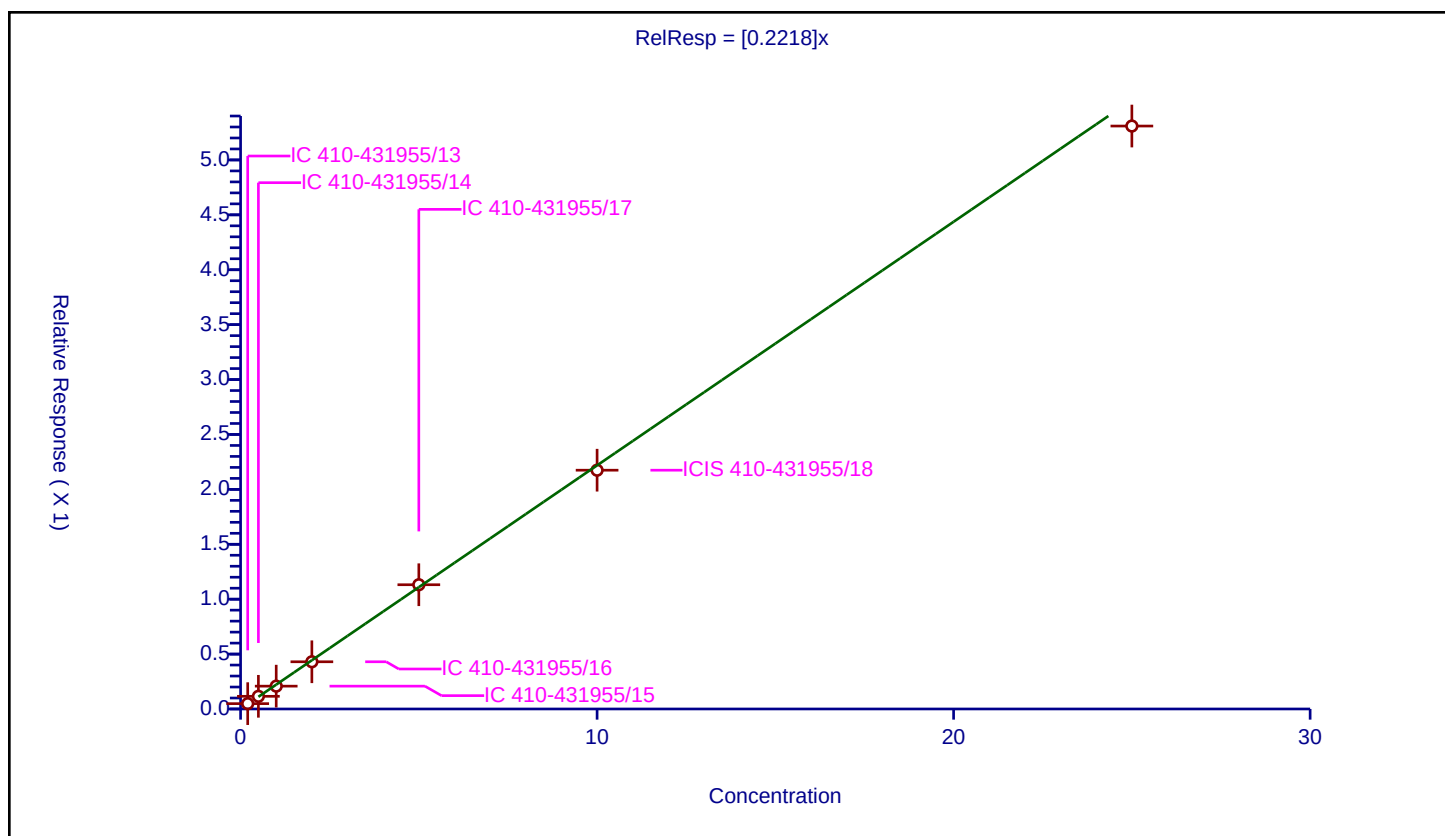
Curve Coefficients

Intercept: 0
 Slope: 0.2218

Error Coefficients

Standard Error: 445000
 Relative Standard Error: 5.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.048584	10.0	1727945.0	0.242919	Y
2	IC 410-431955/14	0.5	0.115486	10.0	1732238.0	0.230973	Y
3	IC 410-431955/15	1.0	0.207956	10.0	1719834.0	0.207956	Y
4	IC 410-431955/16	2.0	0.42997	10.0	1746844.0	0.214985	Y
5	IC 410-431955/17	5.0	1.131493	10.0	1767939.0	0.226299	Y
6	ICIS 410-431955/18	10.0	2.174449	10.0	1790766.0	0.217445	Y
7	IC 410-431955/19	25.0	5.308613	10.0	1875183.0	0.212345	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

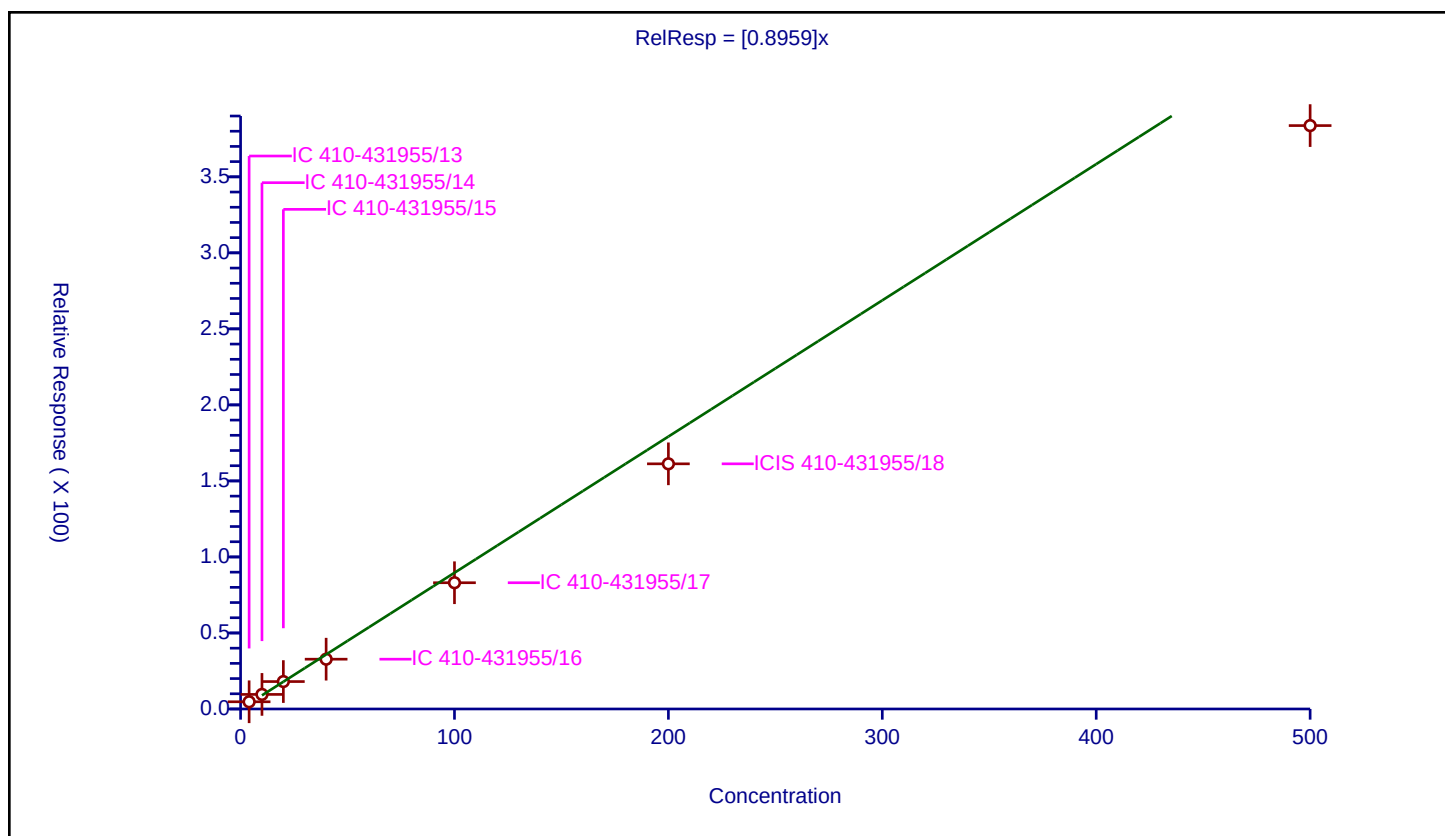
Curve Coefficients

Intercept: 0
Slope: 0.8959

Error Coefficients

Standard Error: 319000
Relative Standard Error: 16.0
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.956

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	4.0	4.748281	50.0	75501.0	1.18707	Y
2	IC 410-431955/14	10.0	9.59271	50.0	75057.0	0.959271	Y
3	IC 410-431955/15	20.0	18.042679	50.0	79384.0	0.902134	Y
4	IC 410-431955/16	40.0	32.75082	50.0	77137.0	0.81877	Y
5	IC 410-431955/17	100.0	83.037944	50.0	78879.0	0.830379	Y
6	ICIS 410-431955/18	200.0	161.234115	50.0	83963.0	0.806171	Y
7	IC 410-431955/19	500.0	383.701613	50.0	93724.0	0.767403	Y



Calibration

/ Acrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

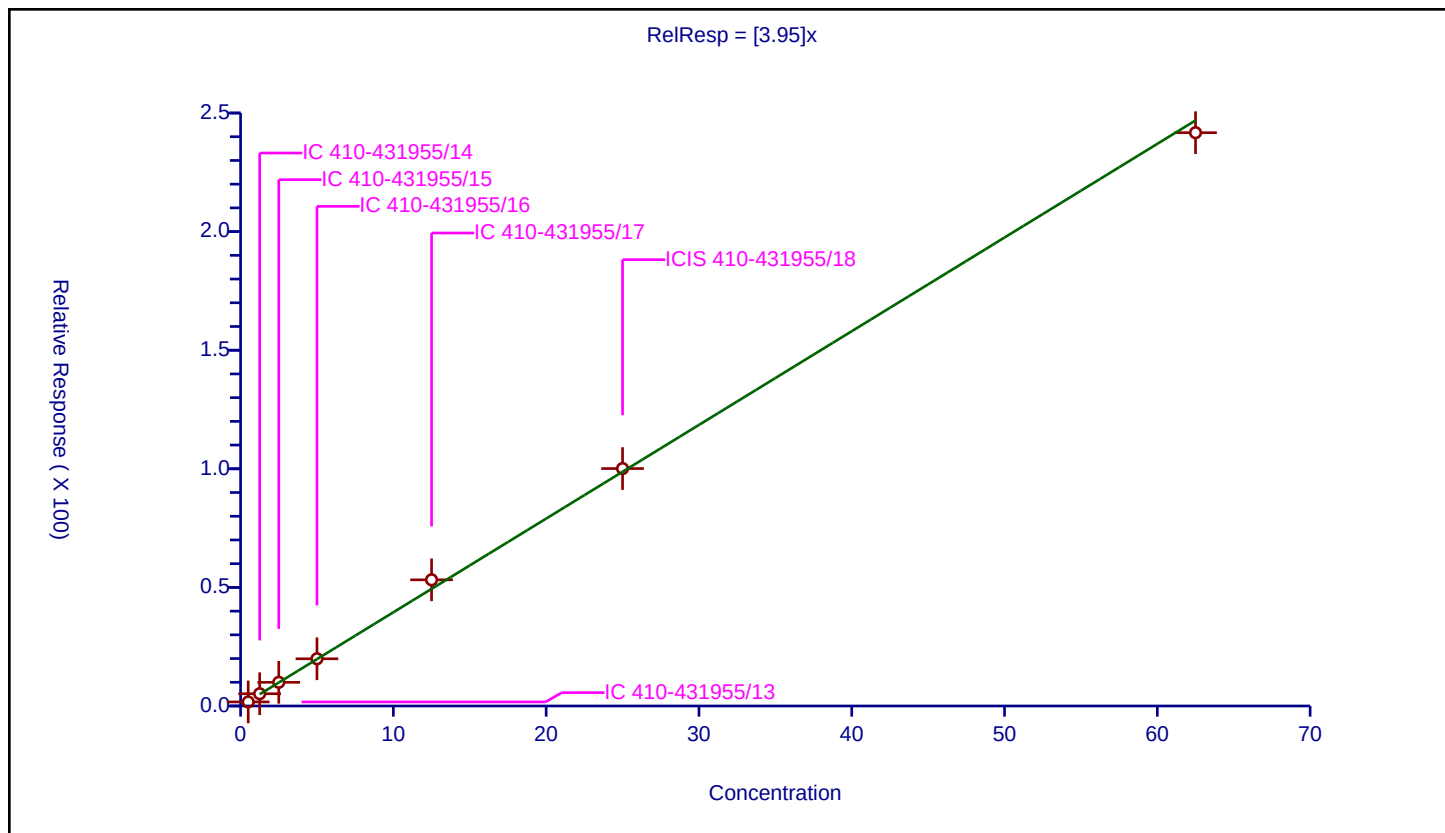
Curve Coefficients

Intercept: 0
Slope: 3.95

Error Coefficients

Standard Error: 201000
Relative Standard Error: 6.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.5	1.709911	50.0	75501.0	3.419822	Y
2	IC 410-431955/14	1.25	5.163409	50.0	75057.0	4.130727	Y
3	IC 410-431955/15	2.5	9.98186	50.0	79384.0	3.992744	Y
4	IC 410-431955/16	5.0	19.900307	50.0	77137.0	3.980061	Y
5	IC 410-431955/17	12.5	53.197936	50.0	78879.0	4.255835	Y
6	ICIS 410-431955/18	25.0	100.095876	50.0	83963.0	4.003835	Y
7	IC 410-431955/19	62.5	241.707567	50.0	93724.0	3.867321	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

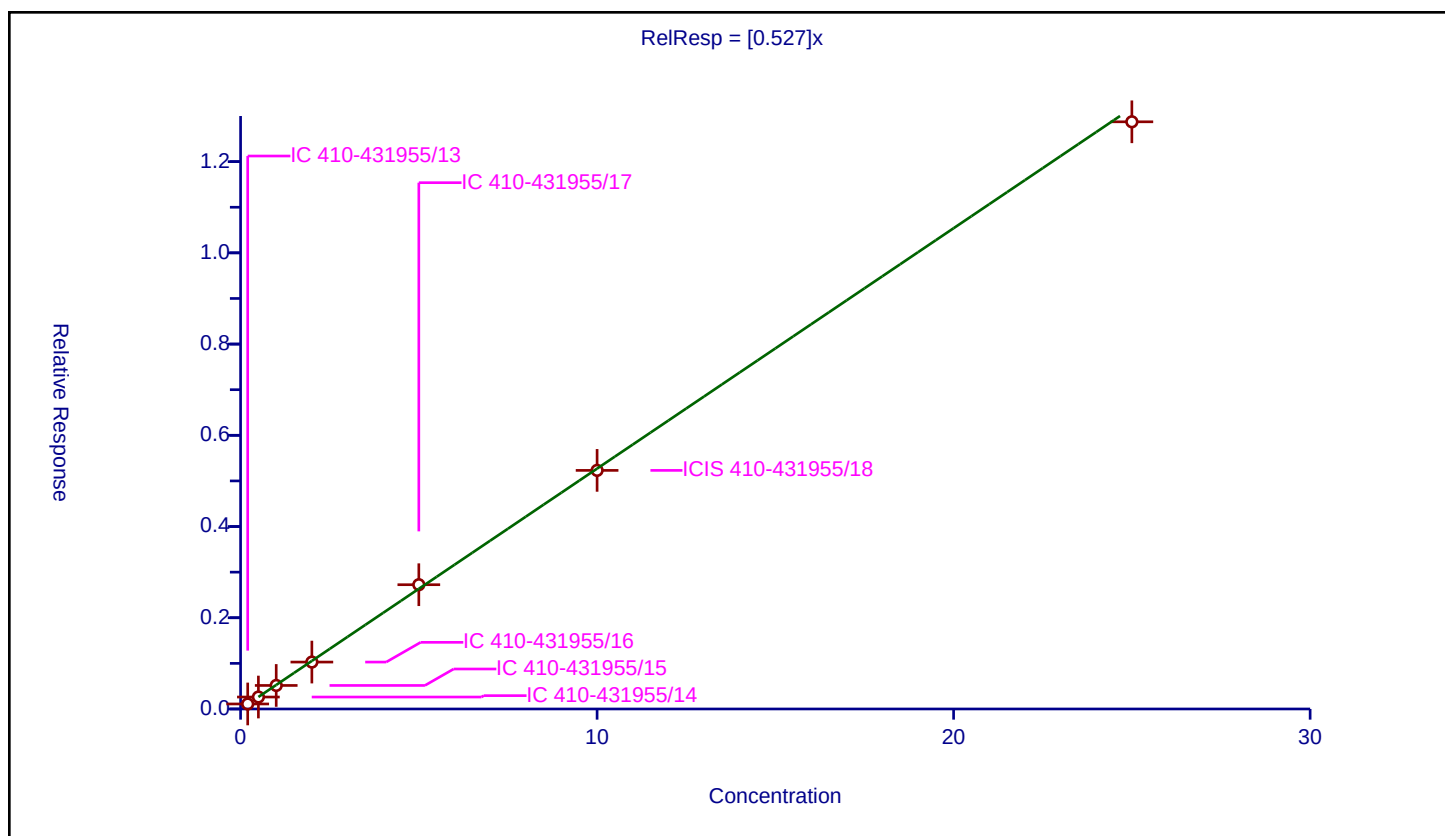
Curve Coefficients

Intercept: 0
Slope: 0.527

Error Coefficients

Standard Error: 1080000
Relative Standard Error: 2.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.110304	10.0	1727945.0	0.551522	Y
2	IC 410-431955/14	0.5	0.262256	10.0	1732238.0	0.524512	Y
3	IC 410-431955/15	1.0	0.515777	10.0	1719834.0	0.515777	Y
4	IC 410-431955/16	2.0	1.028644	10.0	1746844.0	0.514322	Y
5	IC 410-431955/17	5.0	2.724387	10.0	1767939.0	0.544877	Y
6	ICIS 410-431955/18	10.0	5.230951	10.0	1790766.0	0.523095	Y
7	IC 410-431955/19	25.0	12.873394	10.0	1875183.0	0.514936	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

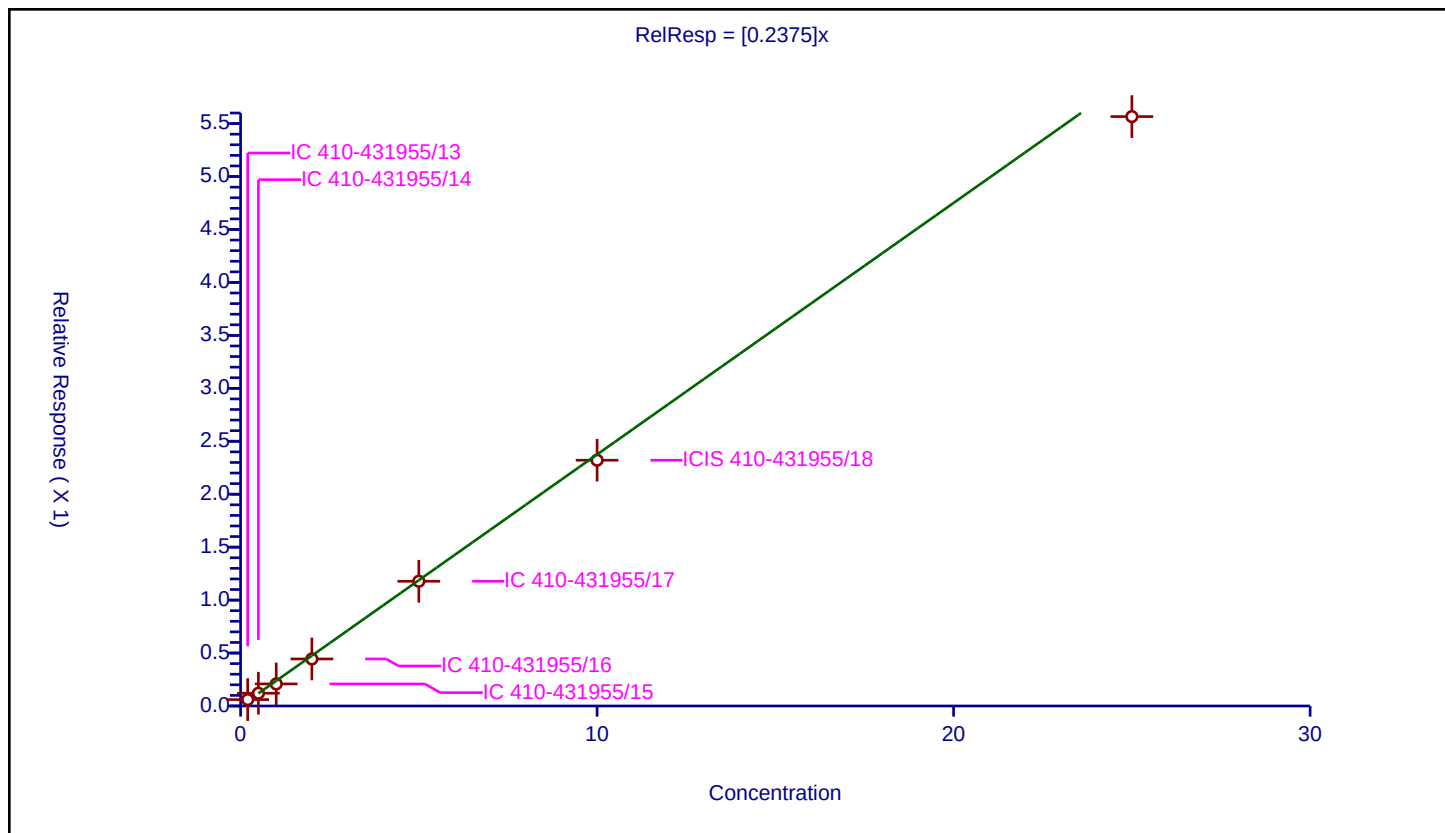
Curve Coefficients

Intercept: 0
Slope: 0.2375

Error Coefficients

Standard Error: 468000
Relative Standard Error: 12.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.06021	10.0	1727945.0	0.301051	Y
2	IC 410-431955/14	0.5	0.120486	10.0	1732238.0	0.240972	Y
3	IC 410-431955/15	1.0	0.208352	10.0	1719834.0	0.208352	Y
4	IC 410-431955/16	2.0	0.444161	10.0	1746844.0	0.222081	Y
5	IC 410-431955/17	5.0	1.17788	10.0	1767939.0	0.235576	Y
6	ICIS 410-431955/18	10.0	2.321169	10.0	1790766.0	0.232117	Y
7	IC 410-431955/19	25.0	5.566342	10.0	1875183.0	0.222654	Y



Calibration

/ Hexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

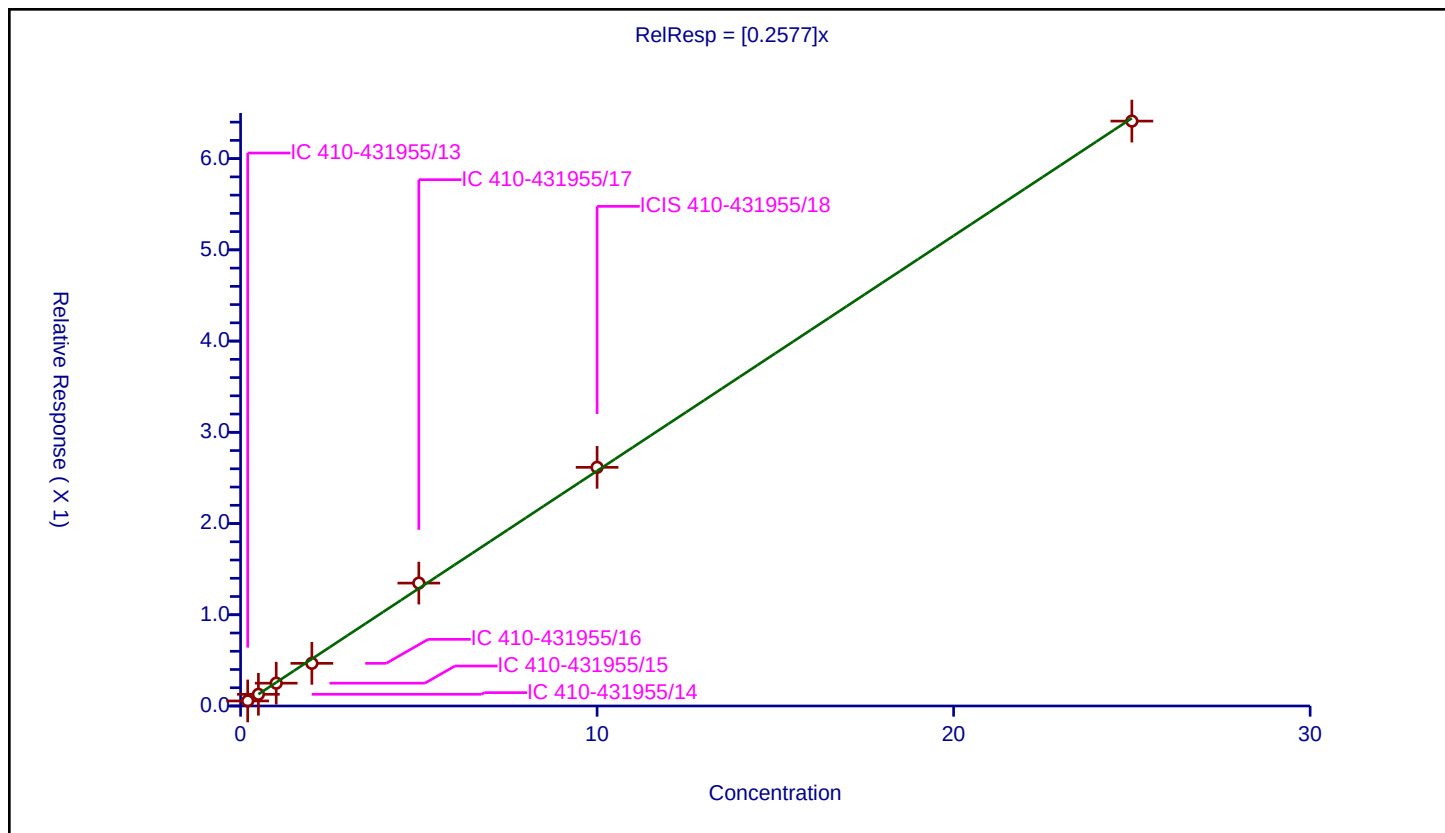
Curve Coefficients

Intercept: 0
Slope: 0.2577

Error Coefficients

Standard Error: 537000
Relative Standard Error: 5.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.055332	10.0	1727945.0	0.276658	Y
2	IC 410-431955/14	0.5	0.128083	10.0	1732238.0	0.256166	Y
3	IC 410-431955/15	1.0	0.250065	10.0	1719834.0	0.250065	Y
4	IC 410-431955/16	2.0	0.467443	10.0	1746844.0	0.233722	Y
5	IC 410-431955/17	5.0	1.347066	10.0	1767939.0	0.269413	Y
6	ICIS 410-431955/18	10.0	2.615942	10.0	1790766.0	0.261594	Y
7	IC 410-431955/19	25.0	6.411284	10.0	1875183.0	0.256451	Y



Calibration

/ 1,1-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

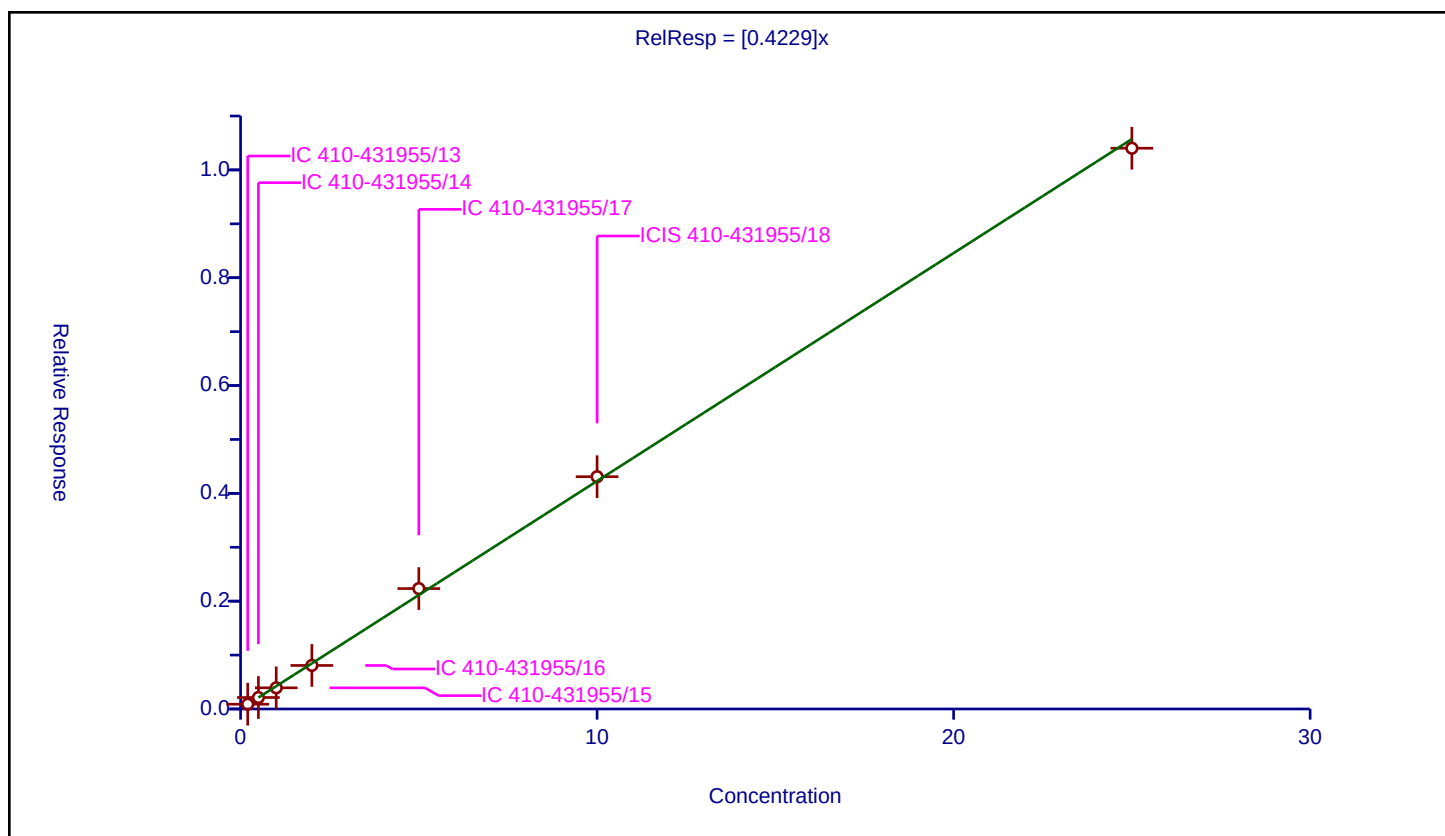
Curve Coefficients

Intercept: 0
 Slope: 0.4229

Error Coefficients

Standard Error: 874000
 Relative Standard Error: 4.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.088788	10.0	1727945.0	0.443938	Y
2	IC 410-431955/14	0.5	0.213048	10.0	1732238.0	0.426096	Y
3	IC 410-431955/15	1.0	0.392456	10.0	1719834.0	0.392456	Y
4	IC 410-431955/16	2.0	0.807742	10.0	1746844.0	0.403871	Y
5	IC 410-431955/17	5.0	2.233567	10.0	1767939.0	0.446713	Y
6	ICIS 410-431955/18	10.0	4.308743	10.0	1790766.0	0.430874	Y
7	IC 410-431955/19	25.0	10.40227	10.0	1875183.0	0.416091	Y



Calibration

/ Isopropyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

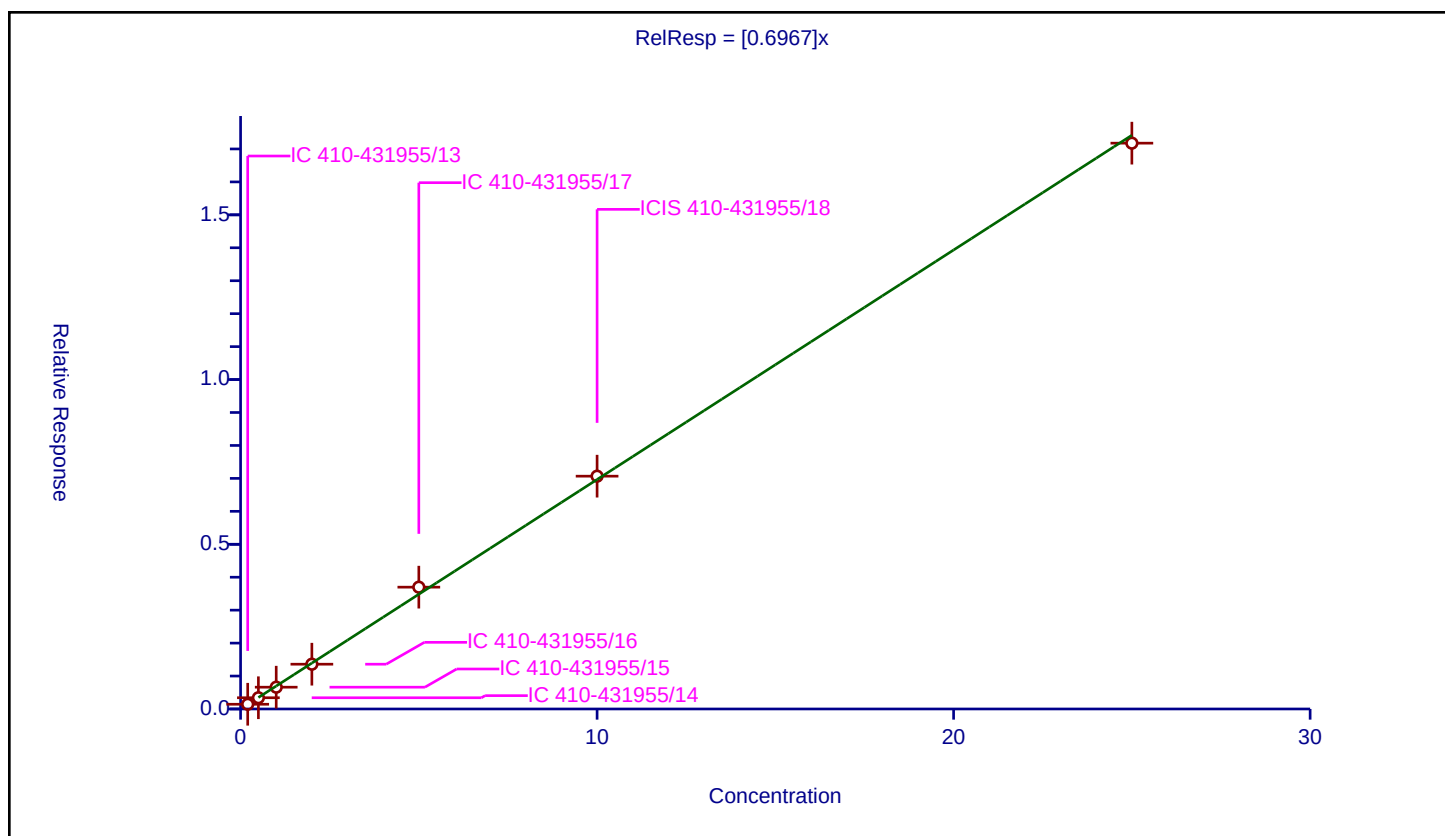
Curve Coefficients

Intercept: 0
 Slope: 0.6967

Error Coefficients

Standard Error: 1440000
 Relative Standard Error: 3.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.143865	10.0	1727945.0	0.719323	Y
2	IC 410-431955/14	0.5	0.341304	10.0	1732238.0	0.682608	Y
3	IC 410-431955/15	1.0	0.661622	10.0	1719834.0	0.661622	Y
4	IC 410-431955/16	2.0	1.359309	10.0	1746844.0	0.679654	Y
5	IC 410-431955/17	5.0	3.69795	10.0	1767939.0	0.73959	Y
6	ICIS 410-431955/18	10.0	7.067411	10.0	1790766.0	0.706741	Y
7	IC 410-431955/19	25.0	17.176089	10.0	1875183.0	0.687044	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

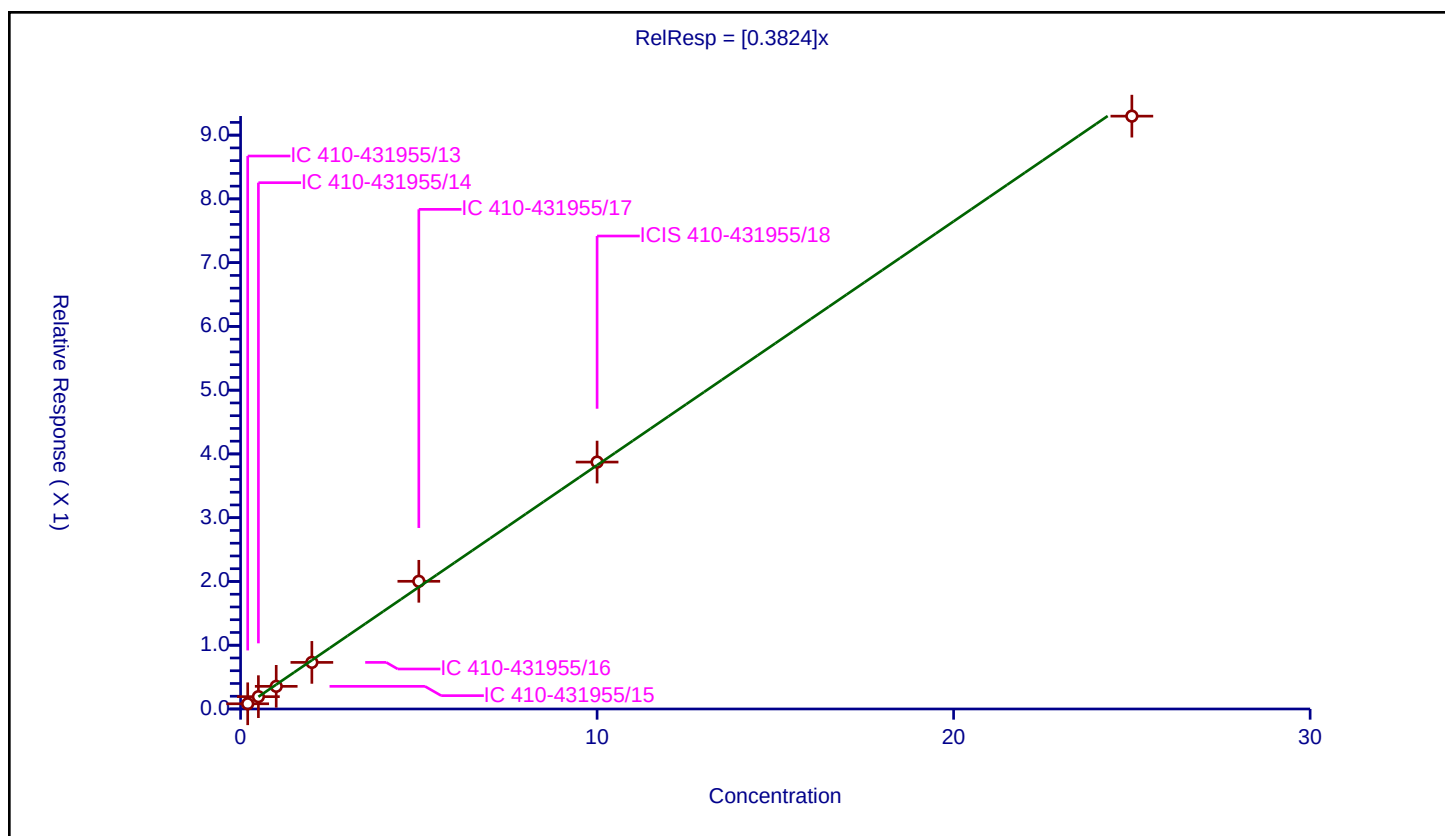
Curve Coefficients

Intercept: 0
Slope: 0.3824

Error Coefficients

Standard Error: 782000
Relative Standard Error: 5.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.081907	10.0	1727945.0	0.409533	Y
2	IC 410-431955/14	0.5	0.193357	10.0	1732238.0	0.386714	Y
3	IC 410-431955/15	1.0	0.355156	10.0	1719834.0	0.355156	Y
4	IC 410-431955/16	2.0	0.730895	10.0	1746844.0	0.365448	Y
5	IC 410-431955/17	5.0	2.002886	10.0	1767939.0	0.400577	Y
6	ICIS 410-431955/18	10.0	3.872415	10.0	1790766.0	0.387242	Y
7	IC 410-431955/19	25.0	9.298111	10.0	1875183.0	0.371924	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

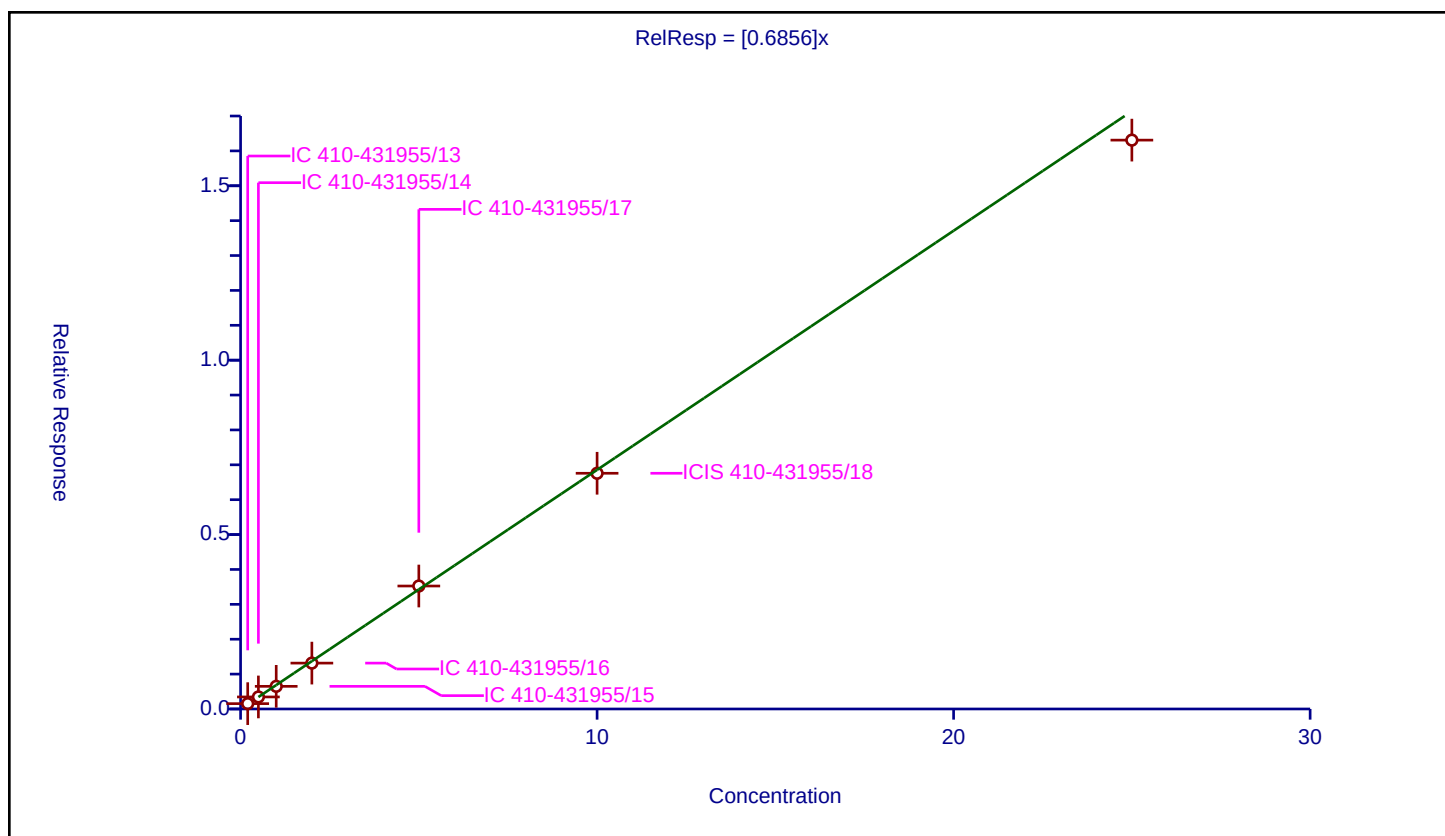
Curve Coefficients

Intercept: 0
Slope: 0.6856

Error Coefficients

Standard Error: 1370000
Relative Standard Error: 6.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.153471	10.0	1727945.0	0.767357	Y
2	IC 410-431955/14	0.5	0.345466	10.0	1732238.0	0.690933	Y
3	IC 410-431955/15	1.0	0.649615	10.0	1719834.0	0.649615	Y
4	IC 410-431955/16	2.0	1.315504	10.0	1746844.0	0.657752	Y
5	IC 410-431955/17	5.0	3.525755	10.0	1767939.0	0.705151	Y
6	ICIS 410-431955/18	10.0	6.757779	10.0	1790766.0	0.675778	Y
7	IC 410-431955/19	25.0	16.30868	10.0	1875183.0	0.652347	Y



Calibration

/ 2-Butanone (MEK)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

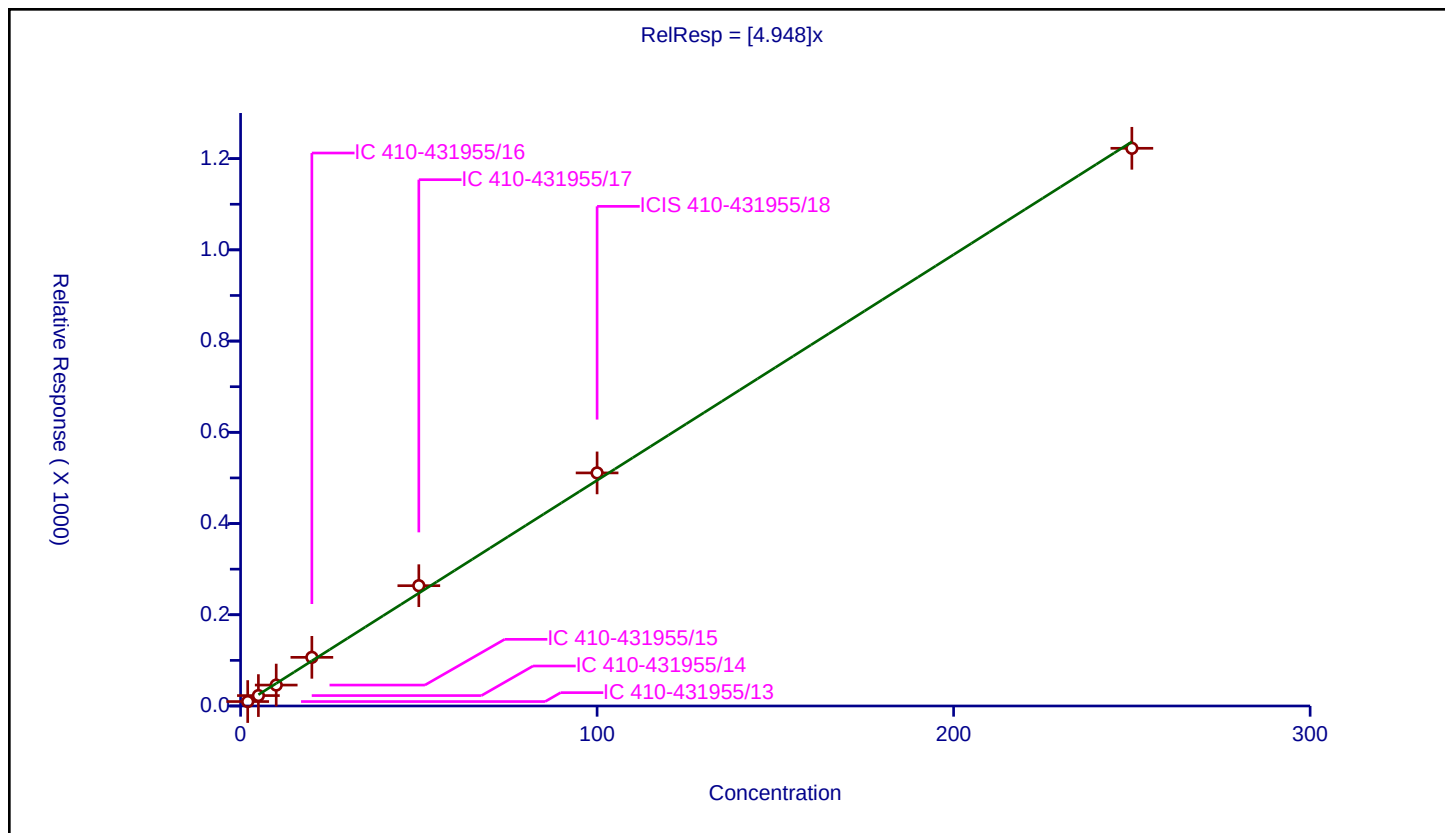
Curve Coefficients

Intercept: 0
Slope: 4.948

Error Coefficients

Standard Error: 1020000
Relative Standard Error: 6.2
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	2.0	9.754175	50.0	75501.0	4.877088	Y
2	IC 410-431955/14	5.0	22.817325	50.0	75057.0	4.563465	Y
3	IC 410-431955/15	10.0	45.854958	50.0	79384.0	4.585496	Y
4	IC 410-431955/16	20.0	106.636245	50.0	77137.0	5.331812	Y
5	IC 410-431955/17	50.0	263.755879	50.0	78879.0	5.275118	Y
6	ICIS 410-431955/18	100.0	510.987578	50.0	83963.0	5.109876	Y
7	IC 410-431955/19	250.0	1222.63401	50.0	93724.0	4.890536	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

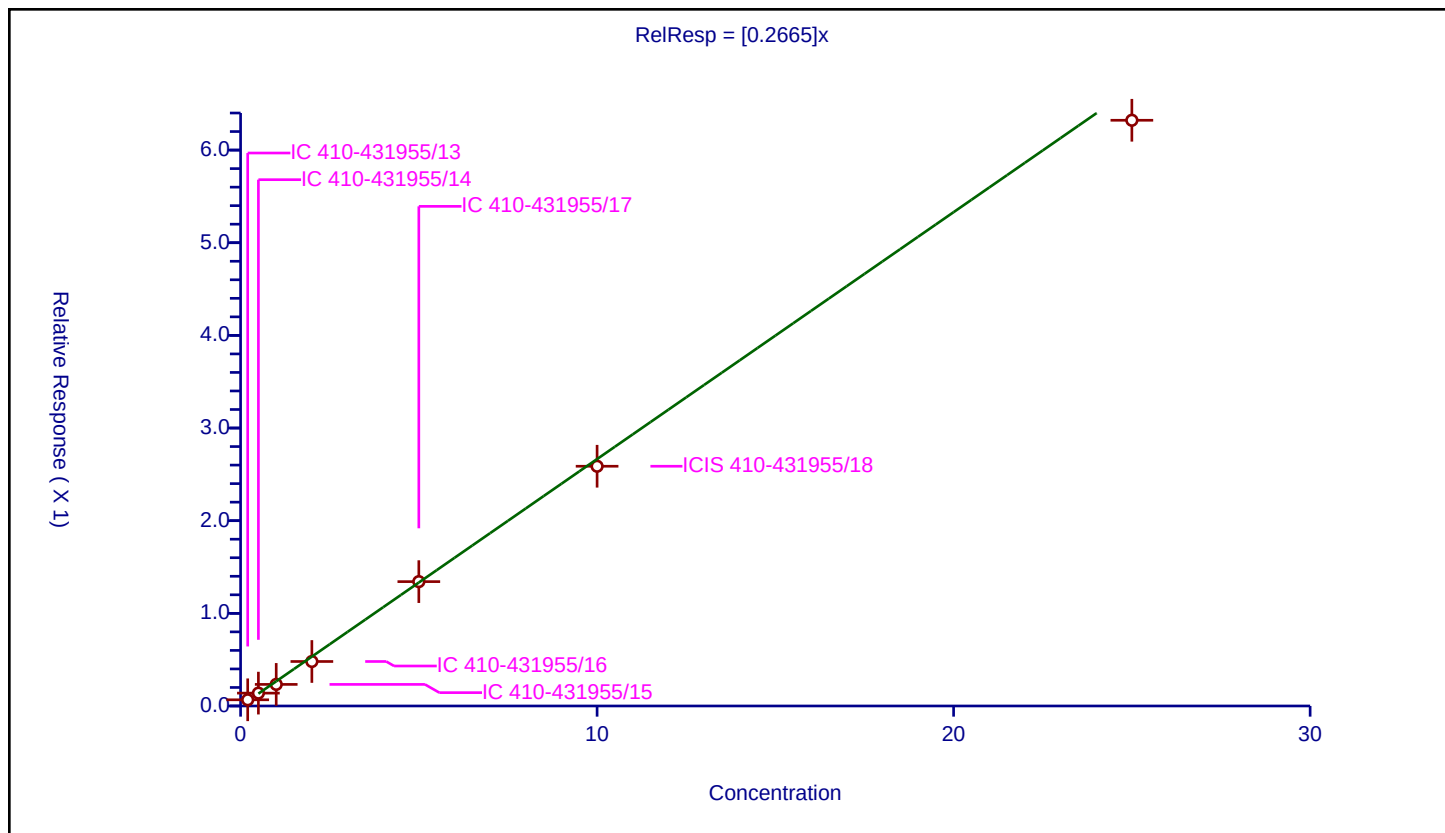
Curve Coefficients

Intercept: 0
Slope: 0.2665

Error Coefficients

Standard Error: 530000
Relative Standard Error: 12.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.06686	10.0	1727945.0	0.334299	Y
2	IC 410-431955/14	0.5	0.138924	10.0	1732238.0	0.277849	Y
3	IC 410-431955/15	1.0	0.233116	10.0	1719834.0	0.233116	Y
4	IC 410-431955/16	2.0	0.480249	10.0	1746844.0	0.240124	Y
5	IC 410-431955/17	5.0	1.342275	10.0	1767939.0	0.268455	Y
6	ICIS 410-431955/18	10.0	2.587569	10.0	1790766.0	0.258757	Y
7	IC 410-431955/19	25.0	6.321634	10.0	1875183.0	0.252865	Y



Calibration

/ 2,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

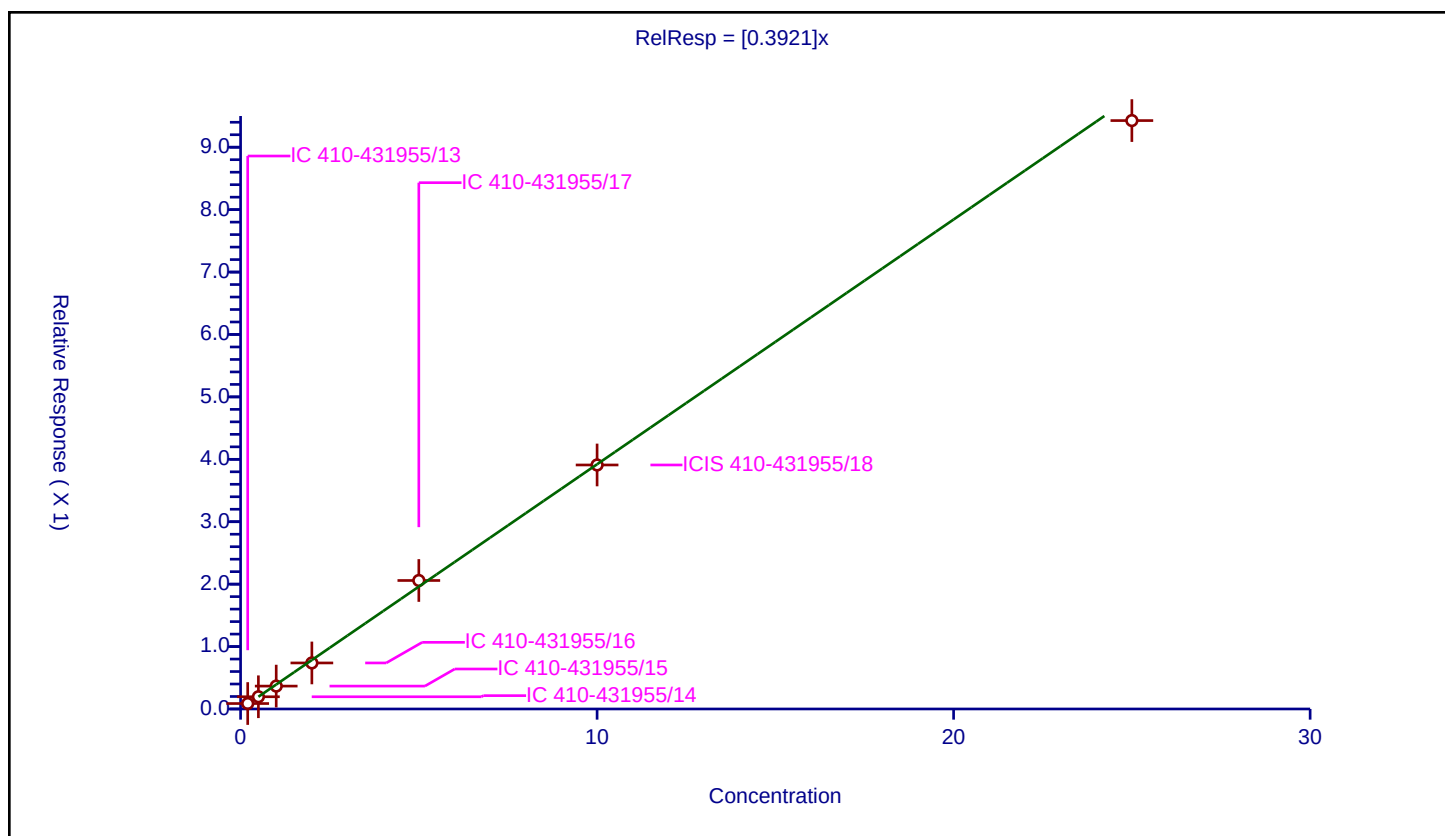
Curve Coefficients

Intercept: 0
Slope: 0.3921

Error Coefficients

Standard Error: 793000
Relative Standard Error: 6.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.087497	10.0	1727945.0	0.437485	Y
2	IC 410-431955/14	0.5	0.195874	10.0	1732238.0	0.391748	Y
3	IC 410-431955/15	1.0	0.366861	10.0	1719834.0	0.366861	Y
4	IC 410-431955/16	2.0	0.737662	10.0	1746844.0	0.368831	Y
5	IC 410-431955/17	5.0	2.058714	10.0	1767939.0	0.411743	Y
6	ICIS 410-431955/18	10.0	3.909243	10.0	1790766.0	0.390924	Y
7	IC 410-431955/19	25.0	9.426931	10.0	1875183.0	0.377077	Y



Calibration

/ Propionitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

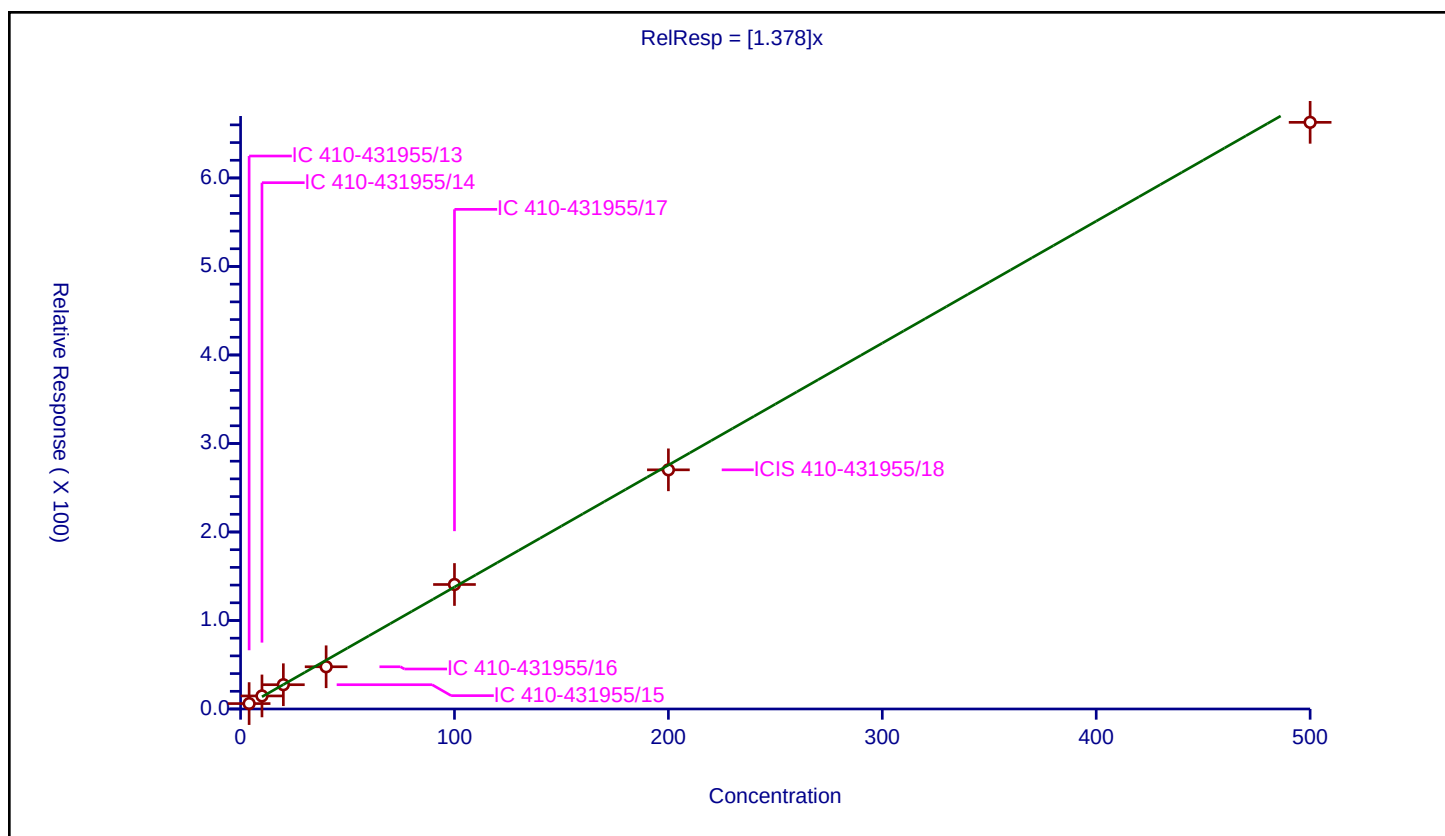
Curve Coefficients

Intercept: 0
Slope: 1.378

Error Coefficients

Standard Error: 548000
Relative Standard Error: 7.8
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	4.0	6.099919	50.0	75501.0	1.52498	Y
2	IC 410-431955/14	10.0	14.736134	50.0	75057.0	1.473613	Y
3	IC 410-431955/15	20.0	27.421143	50.0	79384.0	1.371057	Y
4	IC 410-431955/16	40.0	47.705381	50.0	77137.0	1.192635	Y
5	IC 410-431955/17	100.0	140.659745	50.0	78879.0	1.406597	Y
6	ICIS 410-431955/18	200.0	270.219025	50.0	83963.0	1.351095	Y
7	IC 410-431955/19	500.0	662.865435	50.0	93724.0	1.325731	Y



Calibration

/ Methacrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

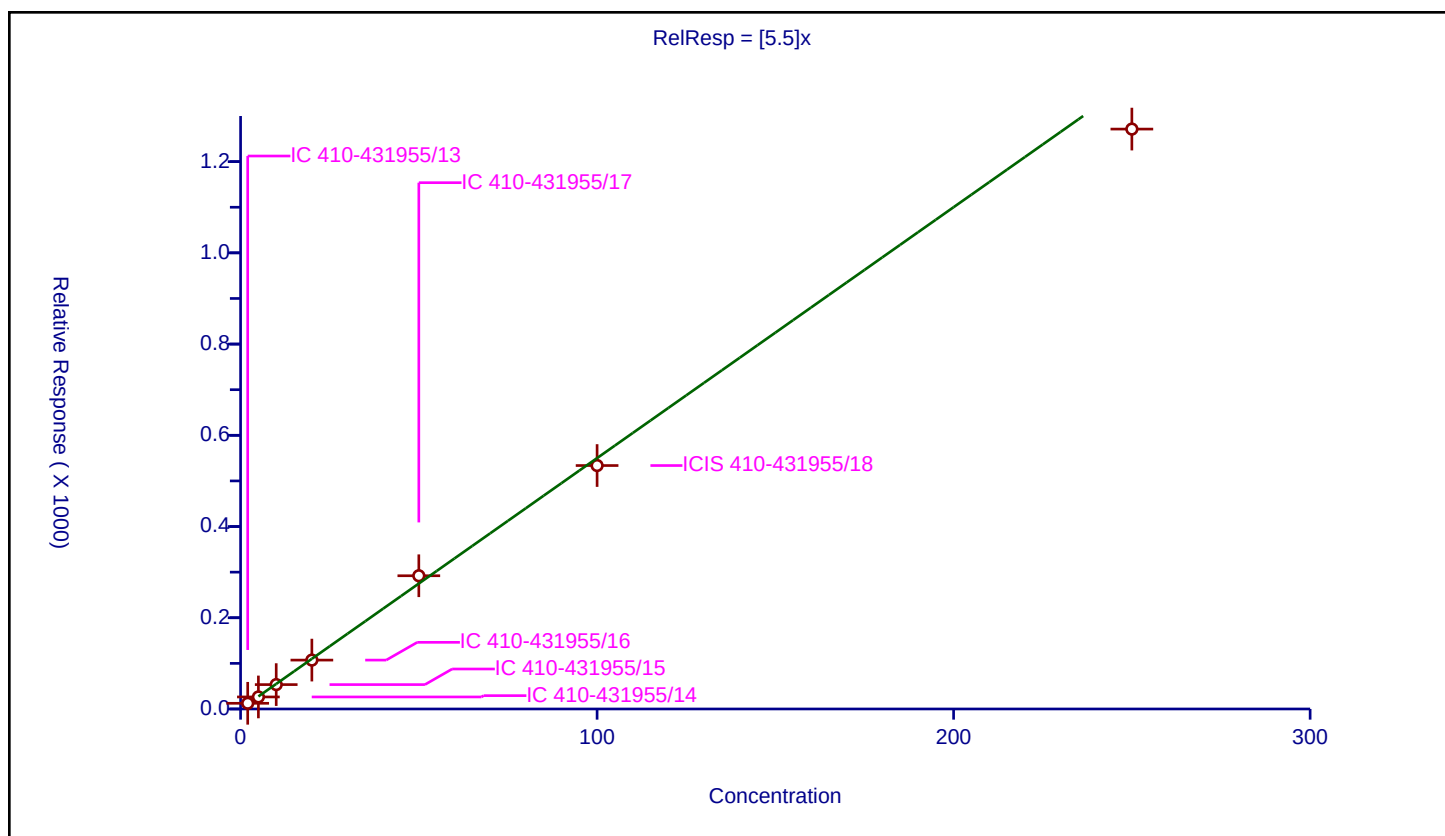
Curve Coefficients

Intercept: 0
Slope: 5.5

Error Coefficients

Standard Error: 1060000
Relative Standard Error: 7.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	2.0	12.50447	50.0	75501.0	6.252235	Y
2	IC 410-431955/14	5.0	26.417922	50.0	75057.0	5.283584	Y
3	IC 410-431955/15	10.0	53.449688	50.0	79384.0	5.344969	Y
4	IC 410-431955/16	20.0	107.162581	50.0	77137.0	5.358129	Y
5	IC 410-431955/17	50.0	292.079641	50.0	78879.0	5.841593	Y
6	ICIS 410-431955/18	100.0	533.723188	50.0	83963.0	5.337232	Y
7	IC 410-431955/19	250.0	1271.369126	50.0	93724.0	5.085477	Y



Calibration

/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

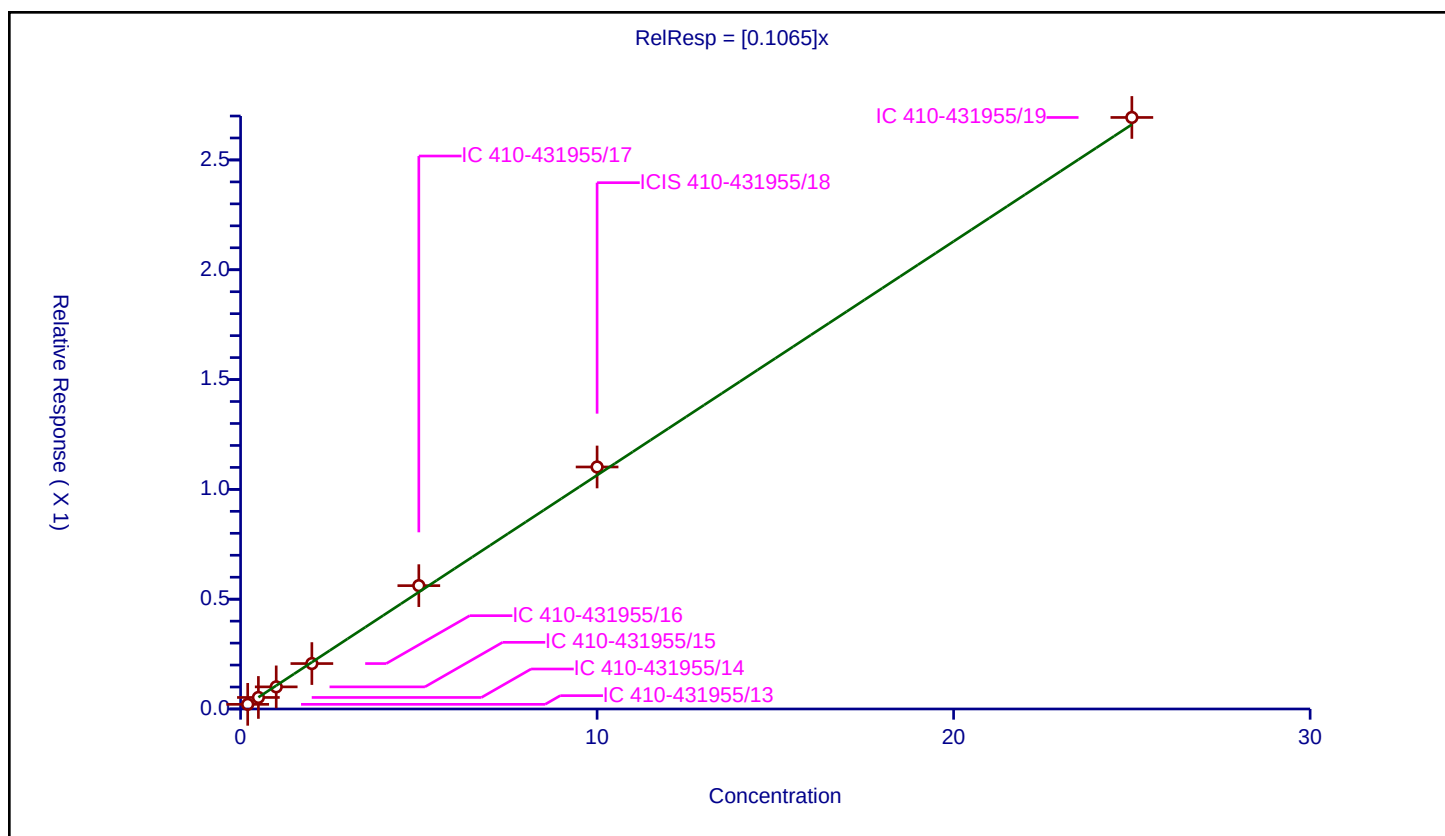
Curve Coefficients

Intercept: 0
Slope: 0.1065

Error Coefficients

Standard Error: 226000
Relative Standard Error: 3.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.021158	10.0	1727945.0	0.10579	Y
2	IC 410-431955/14	0.5	0.052475	10.0	1732238.0	0.104951	Y
3	IC 410-431955/15	1.0	0.100696	10.0	1719834.0	0.100696	Y
4	IC 410-431955/16	2.0	0.206899	10.0	1746844.0	0.103449	Y
5	IC 410-431955/17	5.0	0.561665	10.0	1767939.0	0.112333	Y
6	ICIS 410-431955/18	10.0	1.102009	10.0	1790766.0	0.110201	Y
7	IC 410-431955/19	25.0	2.693438	10.0	1875183.0	0.107738	Y



Calibration

/ Tetrahydrofuran

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

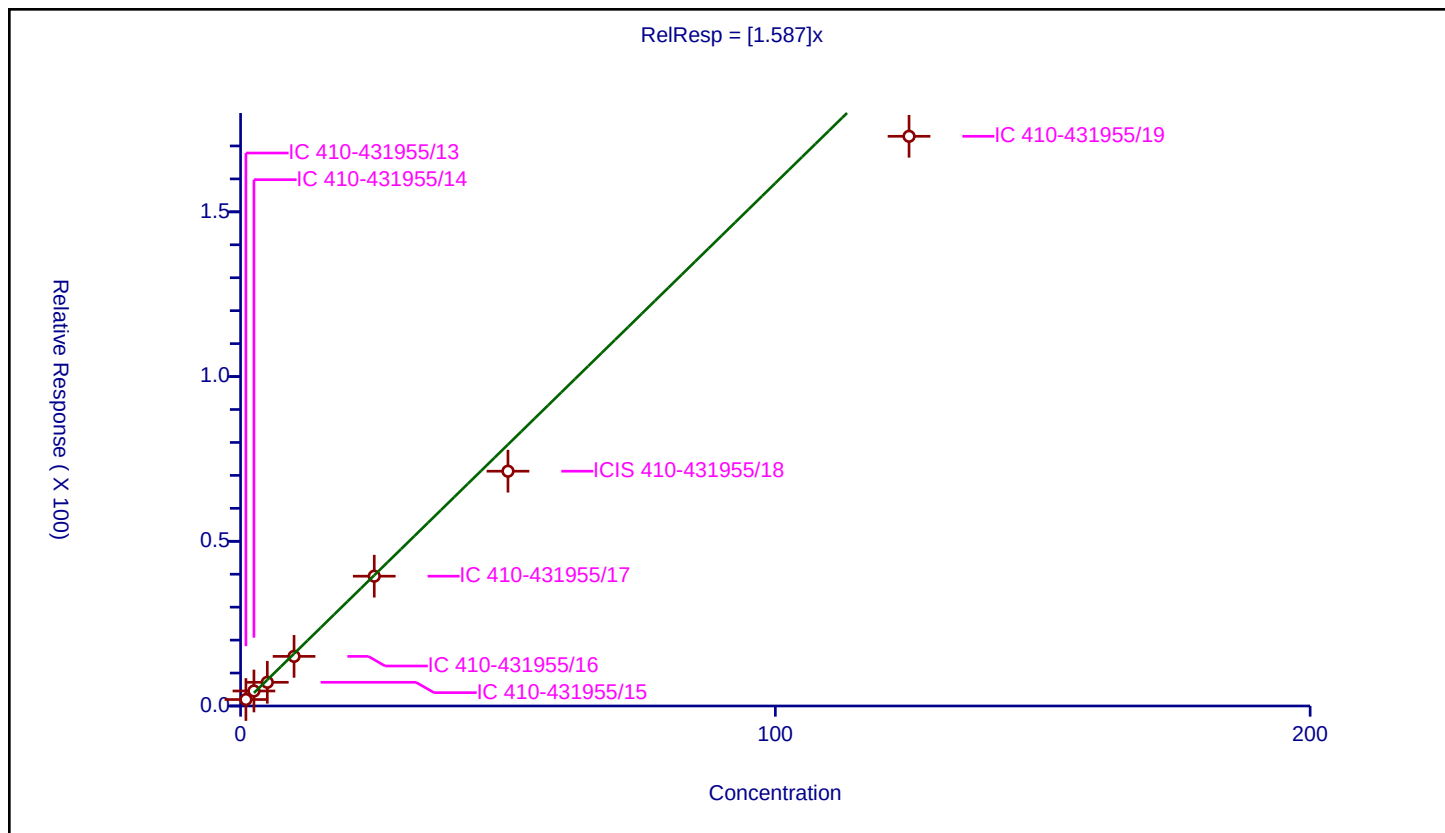
Curve Coefficients

Intercept: 0
Slope: 1.587

Error Coefficients

Standard Error: 144000
Relative Standard Error: 13.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	1.0	1.959577	50.0	75501.0	1.959577	Y
2	IC 410-431955/14	2.5	4.556537	50.0	75057.0	1.822615	Y
3	IC 410-431955/15	5.0	7.188476	50.0	79384.0	1.437695	Y
4	IC 410-431955/16	10.0	15.059569	50.0	77137.0	1.505957	Y
5	IC 410-431955/17	25.0	39.397685	50.0	78879.0	1.575907	Y
6	ICIS 410-431955/18	50.0	71.272465	50.0	83963.0	1.425449	Y
7	IC 410-431955/19	125.0	172.930093	50.0	93724.0	1.383441	Y



Calibration

/ Chloroform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

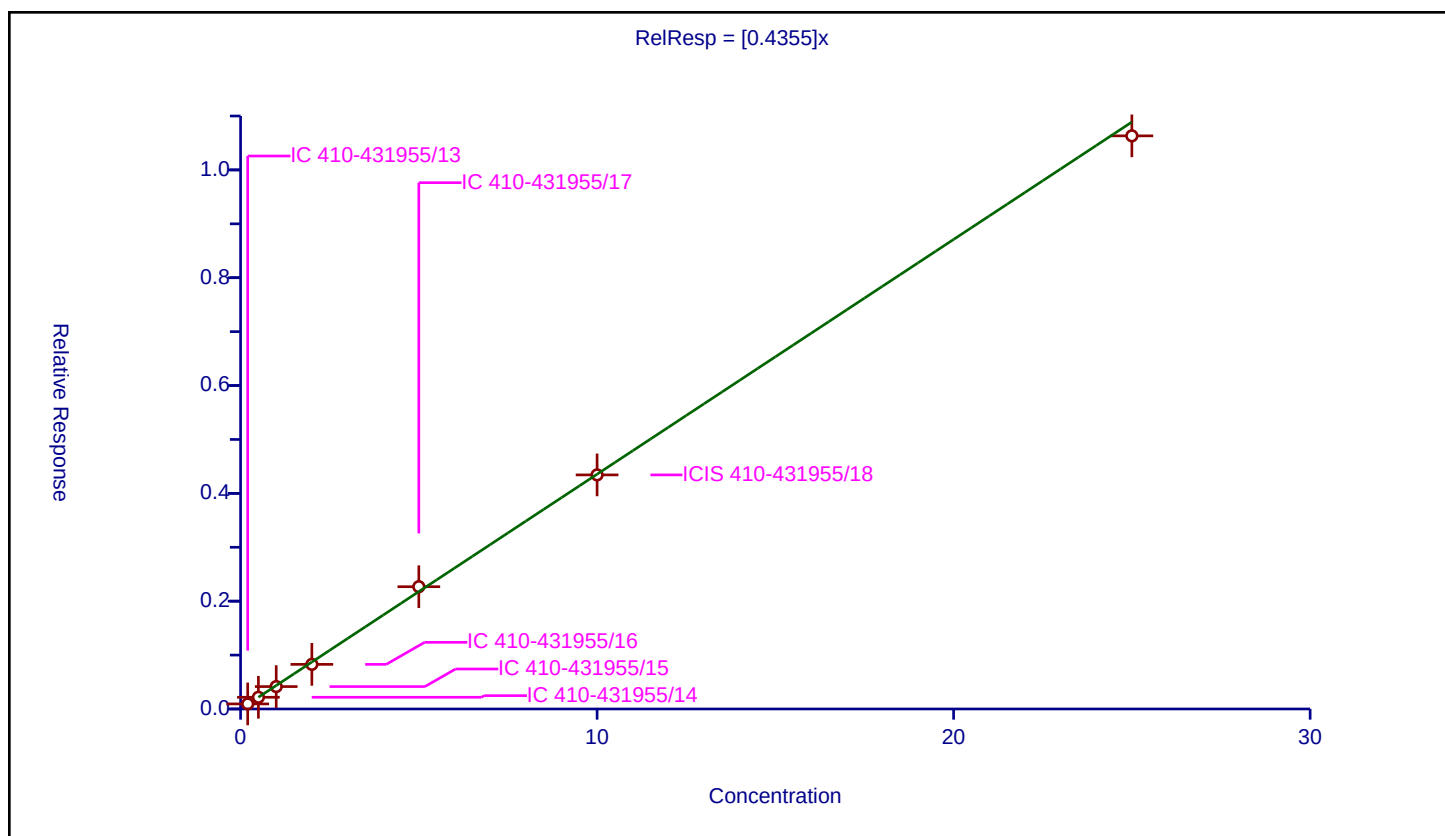
Curve Coefficients

Intercept: 0
Slope: 0.4355

Error Coefficients

Standard Error: 891000
Relative Standard Error: 4.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.094129	10.0	1727945.0	0.470646	Y
2	IC 410-431955/14	0.5	0.21758	10.0	1732238.0	0.43516	Y
3	IC 410-431955/15	1.0	0.415581	10.0	1719834.0	0.415581	Y
4	IC 410-431955/16	2.0	0.828088	10.0	1746844.0	0.414044	Y
5	IC 410-431955/17	5.0	2.268528	10.0	1767939.0	0.453706	Y
6	ICIS 410-431955/18	10.0	4.342583	10.0	1790766.0	0.434258	Y
7	IC 410-431955/19	25.0	10.632141	10.0	1875183.0	0.425286	Y



Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

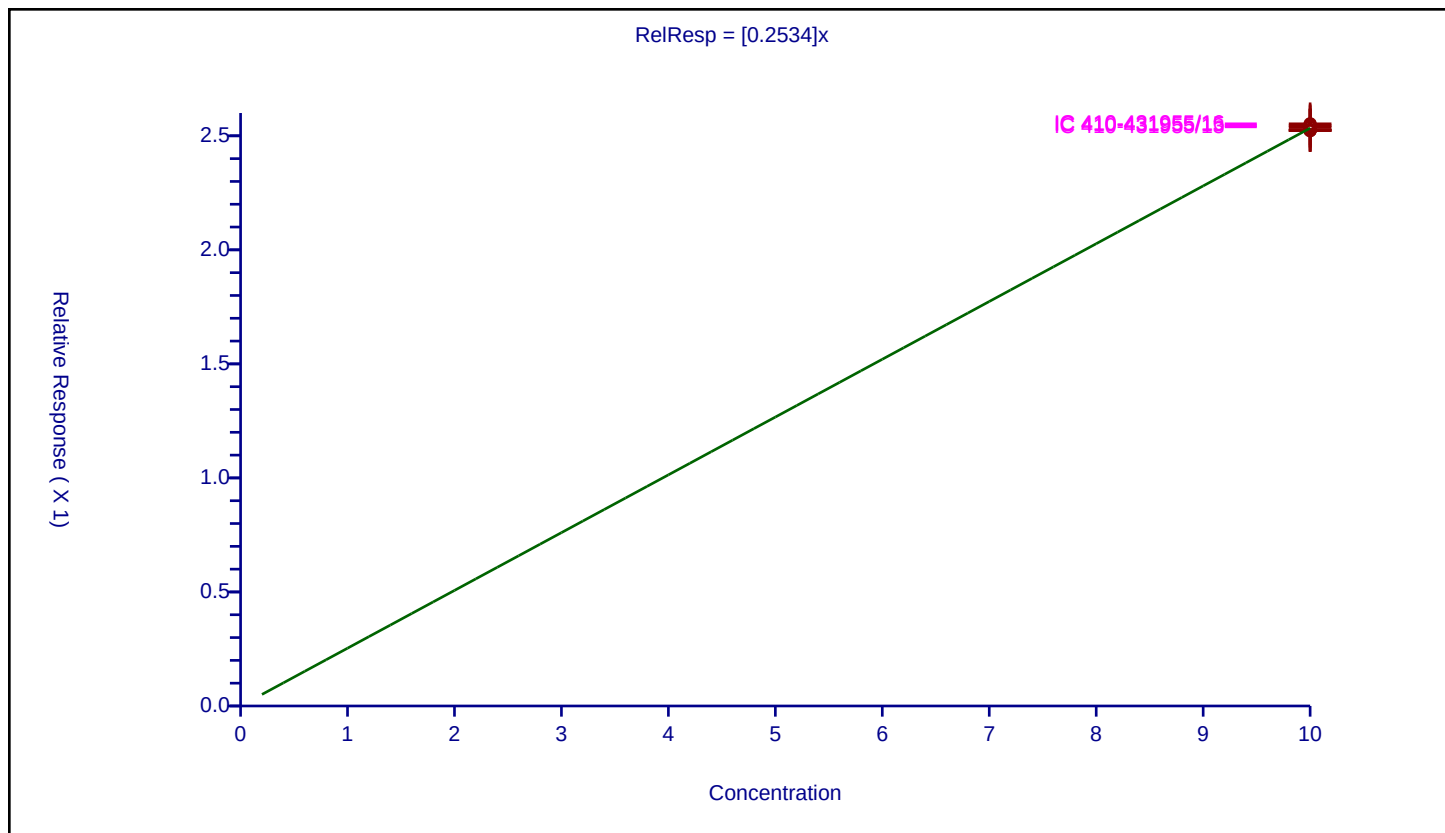
Curve Coefficients

Intercept: 0
 Slope: 0.2534

Error Coefficients

Standard Error: 483000
 Relative Standard Error: 0.5
 Correlation Coefficient: NA
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	10.0	2.539282	10.0	1727945.0	0.253928	Y
2	IC 410-431955/14	10.0	2.523089	10.0	1732238.0	0.252309	Y
3	IC 410-431955/15	10.0	2.544641	10.0	1719834.0	0.254464	Y
4	IC 410-431955/16	10.0	2.552684	10.0	1746844.0	0.255268	Y
5	IC 410-431955/17	10.0	2.524324	10.0	1767939.0	0.252432	Y
6	ICIS 410-431955/18	10.0	2.528108	10.0	1790766.0	0.252811	Y
7	IC 410-431955/19	10.0	2.52337	10.0	1875183.0	0.252337	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

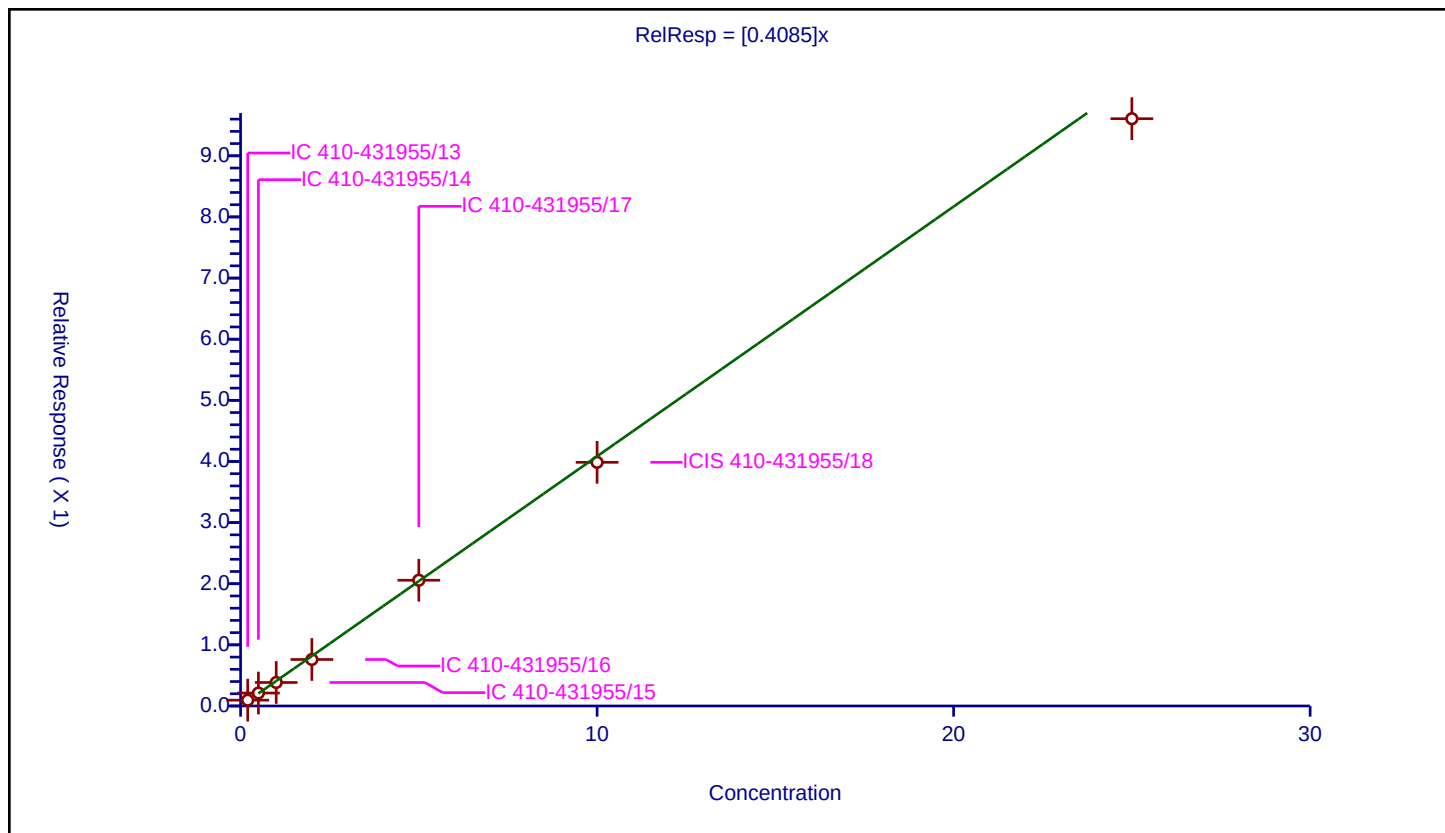
Curve Coefficients

Intercept: 0
Slope: 0.4085

Error Coefficients

Standard Error: 807000
Relative Standard Error: 8.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.095287	10.0	1727945.0	0.476433	Y
2	IC 410-431955/14	0.5	0.211928	10.0	1732238.0	0.423856	Y
3	IC 410-431955/15	1.0	0.384409	10.0	1719834.0	0.384409	Y
4	IC 410-431955/16	2.0	0.760434	10.0	1746844.0	0.380217	Y
5	IC 410-431955/17	5.0	2.057045	10.0	1767939.0	0.411409	Y
6	ICIS 410-431955/18	10.0	3.985758	10.0	1790766.0	0.398576	Y
7	IC 410-431955/19	25.0	9.607041	10.0	1875183.0	0.384282	Y



Calibration

/ Cyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

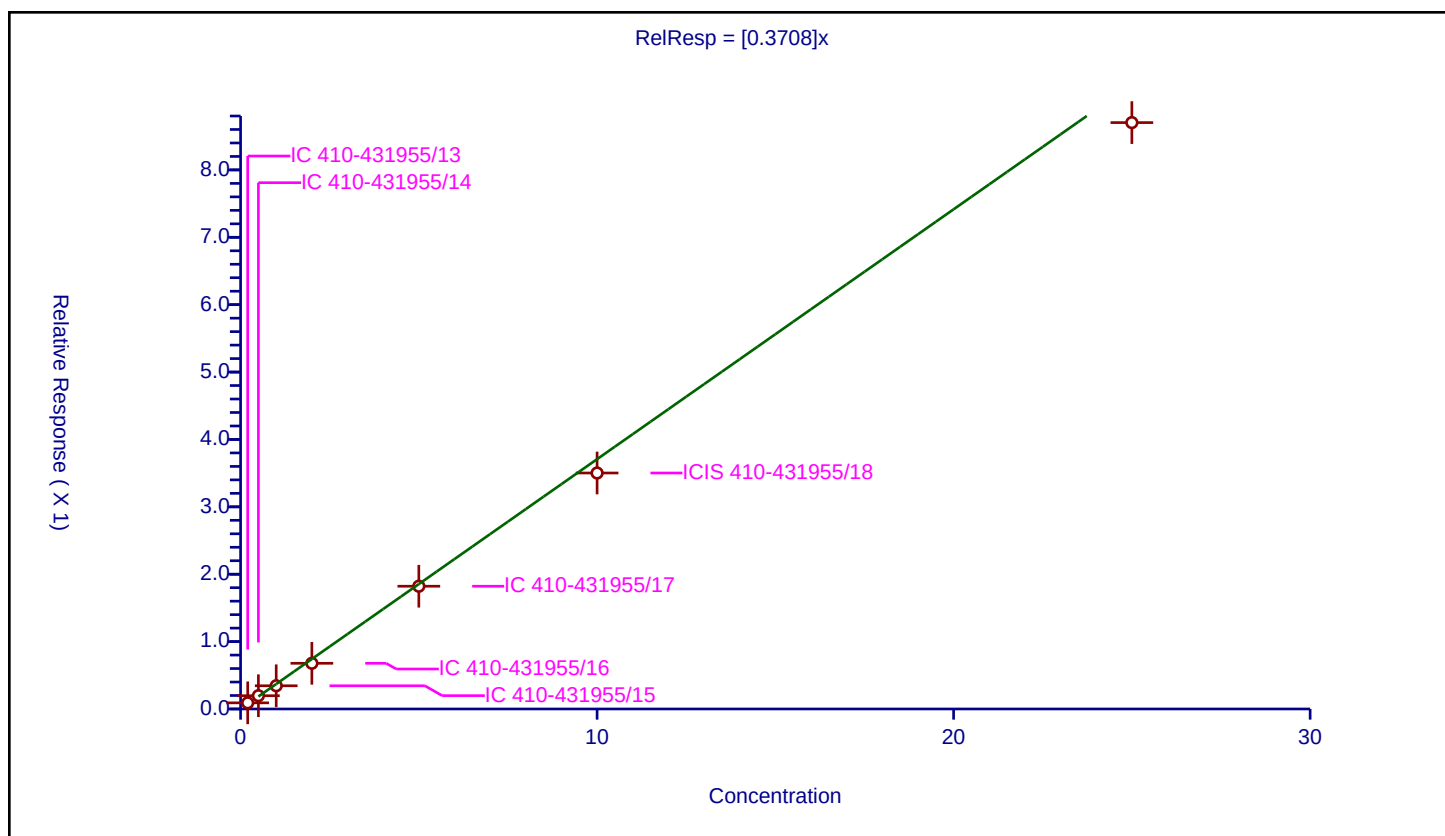
Curve Coefficients

Intercept: 0
Slope: 0.3708

Error Coefficients

Standard Error: 728000
Relative Standard Error: 11.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.091097	10.0	1727945.0	0.455483	Y
2	IC 410-431955/14	0.5	0.196896	10.0	1732238.0	0.393791	Y
3	IC 410-431955/15	1.0	0.34437	10.0	1719834.0	0.34437	Y
4	IC 410-431955/16	2.0	0.678235	10.0	1746844.0	0.339117	Y
5	IC 410-431955/17	5.0	1.821635	10.0	1767939.0	0.364327	Y
6	ICIS 410-431955/18	10.0	3.502077	10.0	1790766.0	0.350208	Y
7	IC 410-431955/19	25.0	8.702153	10.0	1875183.0	0.348086	Y



Calibration

/ 1,1-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

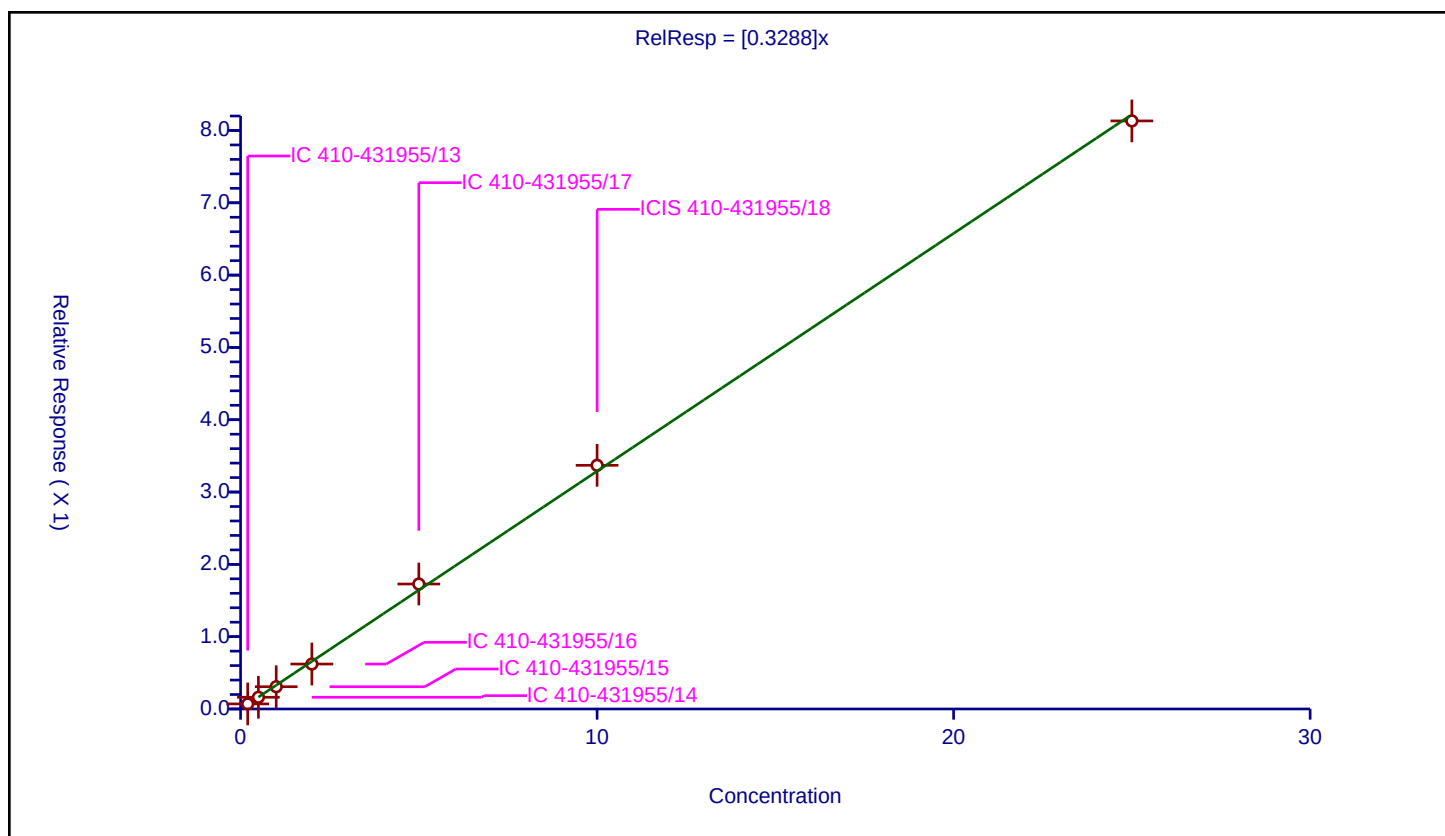
Curve Coefficients

Intercept: 0
Slope: 0.3288

Error Coefficients

Standard Error: 683000
Relative Standard Error: 5.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.070147	10.0	1727945.0	0.350735	Y
2	IC 410-431955/14	0.5	0.162218	10.0	1732238.0	0.324436	Y
3	IC 410-431955/15	1.0	0.308012	10.0	1719834.0	0.308012	Y
4	IC 410-431955/16	2.0	0.621509	10.0	1746844.0	0.310755	Y
5	IC 410-431955/17	5.0	1.728137	10.0	1767939.0	0.345627	Y
6	ICIS 410-431955/18	10.0	3.369519	10.0	1790766.0	0.336952	Y
7	IC 410-431955/19	25.0	8.132134	10.0	1875183.0	0.325285	Y



Calibration

/ Carbon tetrachloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

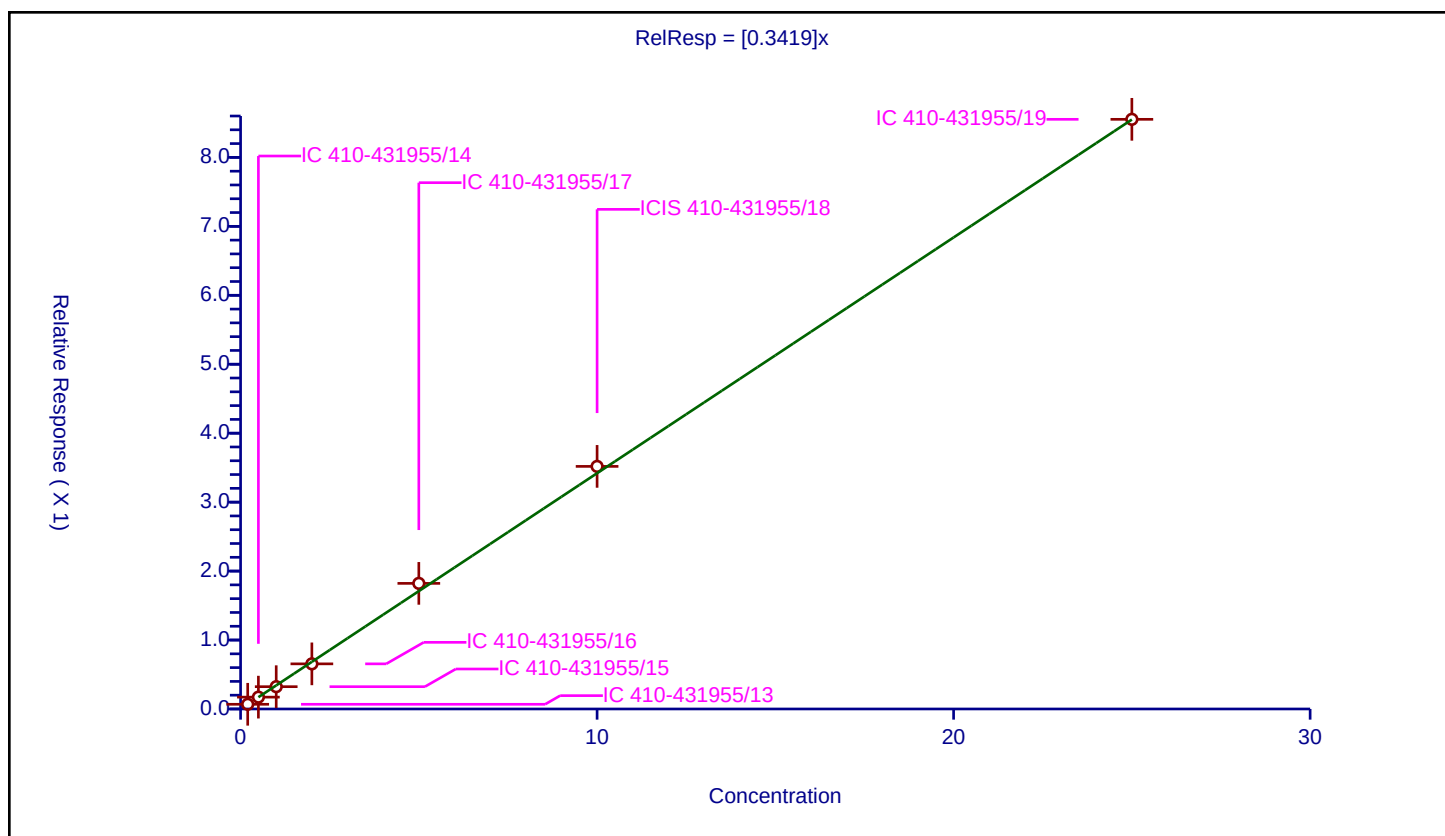
Curve Coefficients

Intercept: 0
Slope: 0.3419

Error Coefficients

Standard Error: 718000
Relative Standard Error: 4.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.068156	10.0	1727945.0	0.340781	Y
2	IC 410-431955/14	0.5	0.171824	10.0	1732238.0	0.343648	Y
3	IC 410-431955/15	1.0	0.323479	10.0	1719834.0	0.323479	Y
4	IC 410-431955/16	2.0	0.654752	10.0	1746844.0	0.327376	Y
5	IC 410-431955/17	5.0	1.821907	10.0	1767939.0	0.364381	Y
6	ICIS 410-431955/18	10.0	3.518293	10.0	1790766.0	0.351829	Y
7	IC 410-431955/19	25.0	8.551976	10.0	1875183.0	0.342079	Y



Calibration

/ Isobutyl alcohol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

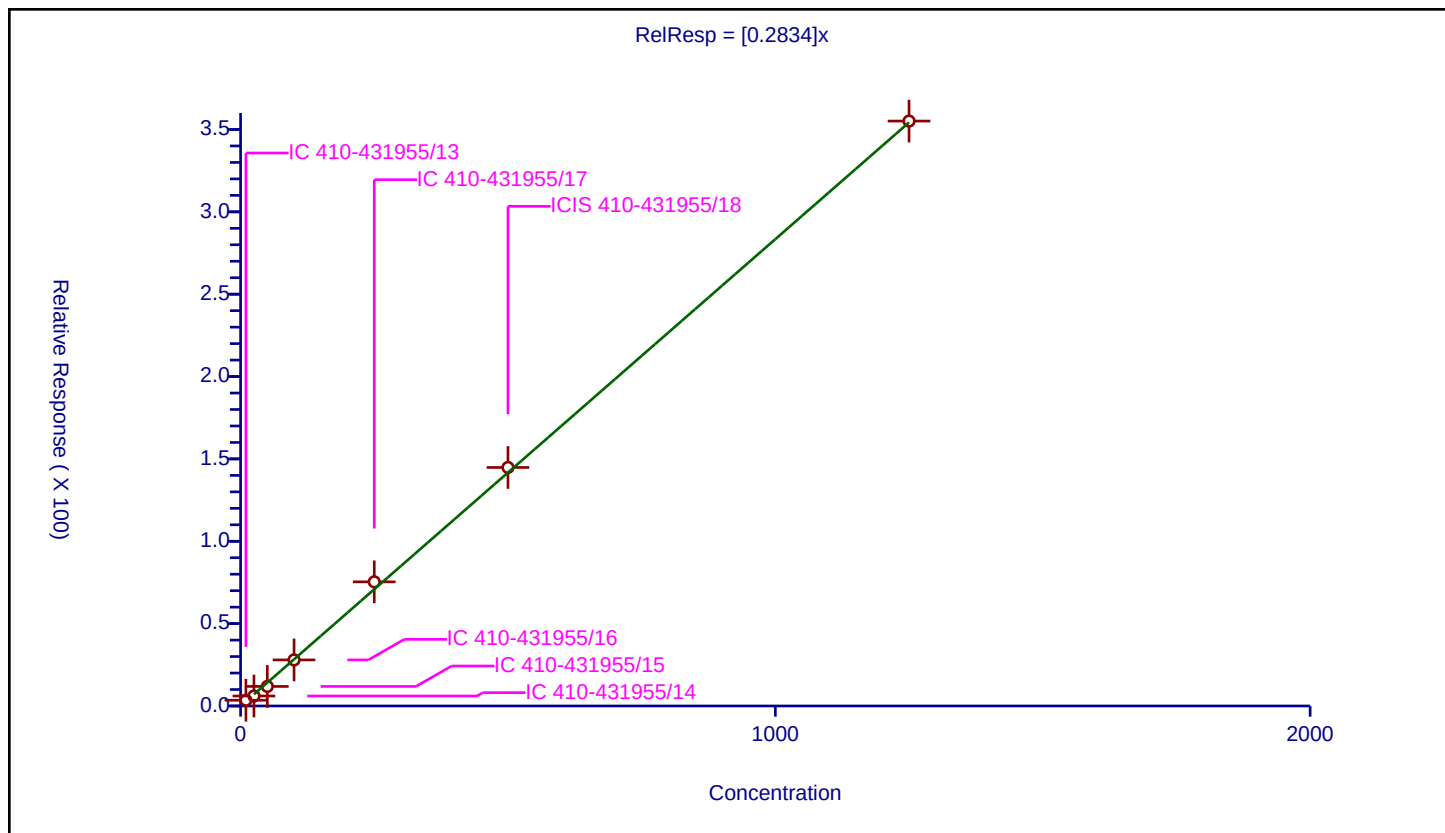
Curve Coefficients

Intercept: 0
 Slope: 0.2834

Error Coefficients

Standard Error: 294000
 Relative Standard Error: 13.2
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	10.0	3.49002	50.0	75501.0	0.349002	Y
2	IC 410-431955/14	25.0	6.064724	50.0	75057.0	0.242589	Y
3	IC 410-431955/15	50.0	11.877079	50.0	79384.0	0.237542	Y
4	IC 410-431955/16	100.0	27.969068	50.0	77137.0	0.279691	Y
5	IC 410-431955/17	250.0	75.364799	50.0	78879.0	0.301459	Y
6	ICIS 410-431955/18	500.0	144.804259	50.0	83963.0	0.289609	Y
7	IC 410-431955/19	1250.0	355.118219	50.0	93724.0	0.284095	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

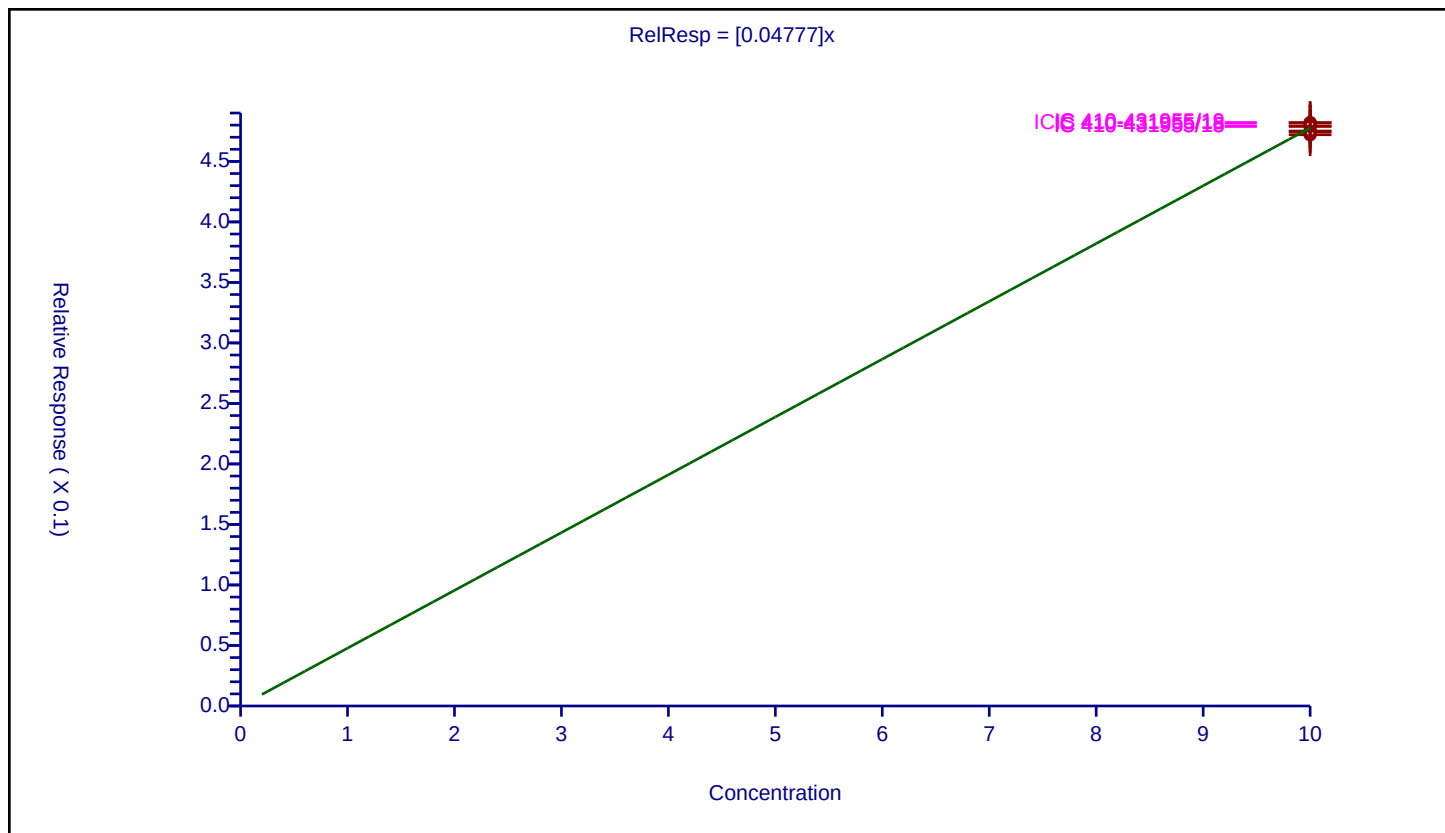
Curve Coefficients

Intercept: 0
Slope: 0.04777

Error Coefficients

Standard Error: 91200
Relative Standard Error: 0.8
Correlation Coefficient: 0.00000000000000000000
Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	10.0	0.474361	10.0	1727945.0	0.047436	Y
2	IC 410-431955/14	10.0	0.472037	10.0	1732238.0	0.047204	Y
3	IC 410-431955/15	10.0	0.478976	10.0	1719834.0	0.047898	Y
4	IC 410-431955/16	10.0	0.479224	10.0	1746844.0	0.047922	Y
5	IC 410-431955/17	10.0	0.475152	10.0	1767939.0	0.047515	Y
6	ICIS 410-431955/18	10.0	0.481693	10.0	1790766.0	0.048169	Y
7	IC 410-431955/19	10.0	0.482124	10.0	1875183.0	0.048212	Y



Calibration

/ Benzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

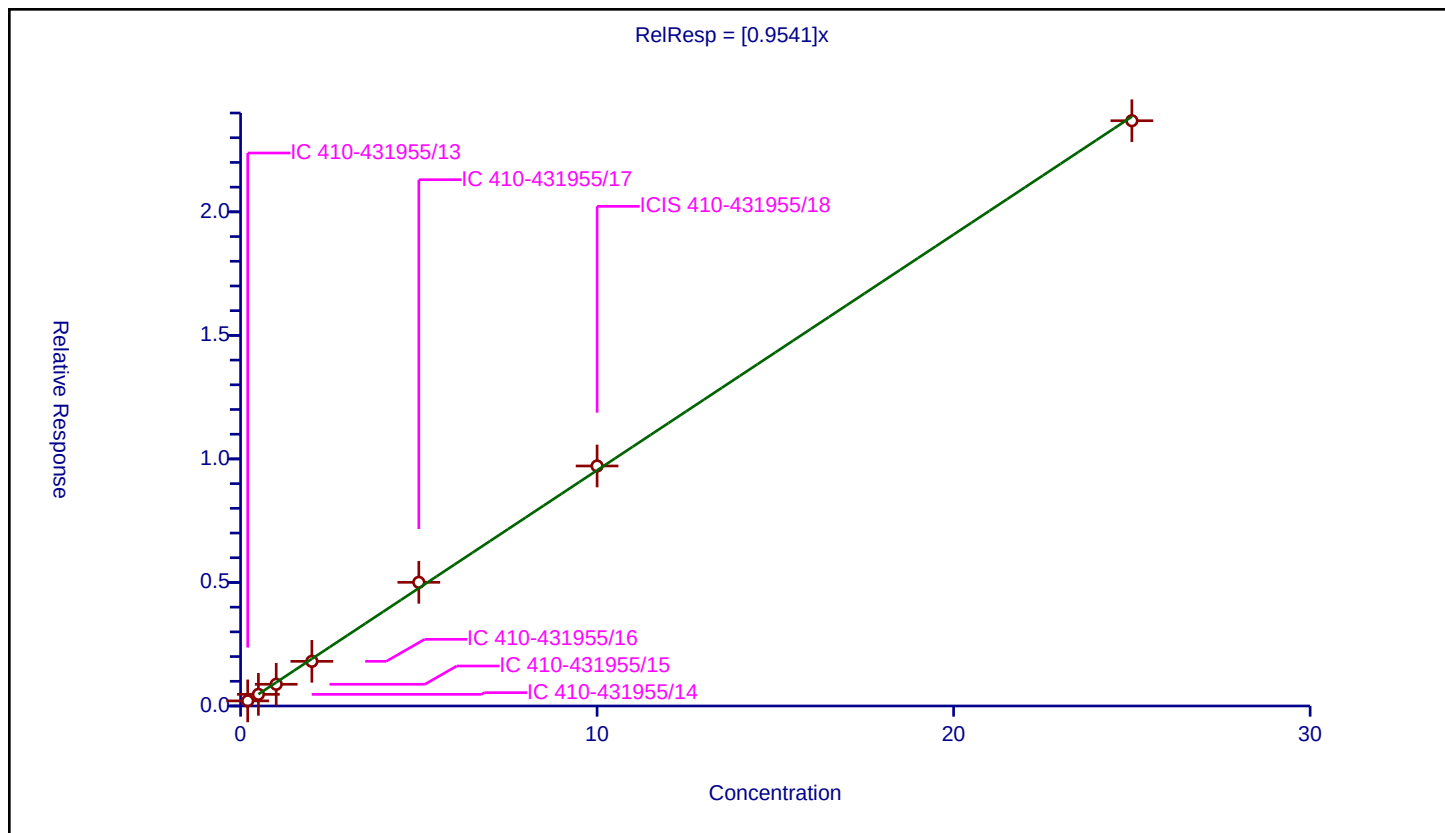
Curve Coefficients

Intercept: 0
Slope: 0.9541

Error Coefficients

Standard Error: 1990000
Relative Standard Error: 5.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.206968	10.0	1727945.0	1.034842	Y
2	IC 410-431955/14	0.5	0.470726	10.0	1732238.0	0.941453	Y
3	IC 410-431955/15	1.0	0.878916	10.0	1719834.0	0.878916	Y
4	IC 410-431955/16	2.0	1.80711	10.0	1746844.0	0.903555	Y
5	IC 410-431955/17	5.0	5.004975	10.0	1767939.0	1.000995	Y
6	ICIS 410-431955/18	10.0	9.713905	10.0	1790766.0	0.97139	Y
7	IC 410-431955/19	25.0	23.687757	10.0	1875183.0	0.94751	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

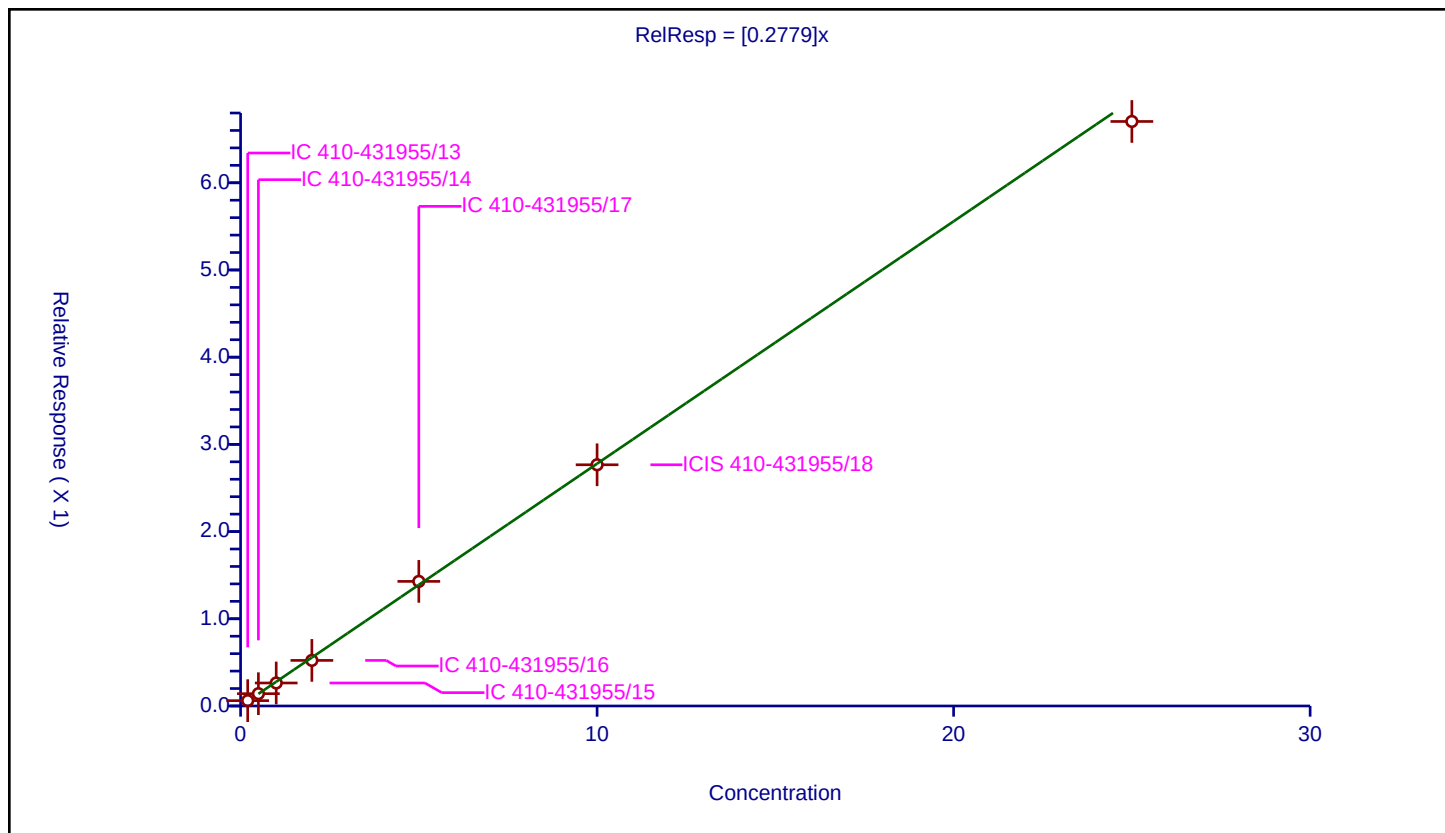
Curve Coefficients

Intercept: 0
 Slope: 0.2779

Error Coefficients

Standard Error: 563000
 Relative Standard Error: 5.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.061431	10.0	1727945.0	0.307157	Y
2	IC 410-431955/14	0.5	0.141251	10.0	1732238.0	0.282502	Y
3	IC 410-431955/15	1.0	0.263677	10.0	1719834.0	0.263677	Y
4	IC 410-431955/16	2.0	0.522783	10.0	1746844.0	0.261391	Y
5	IC 410-431955/17	5.0	1.428754	10.0	1767939.0	0.285751	Y
6	ICIS 410-431955/18	10.0	2.766269	10.0	1790766.0	0.276627	Y
7	IC 410-431955/19	25.0	6.702978	10.0	1875183.0	0.268119	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

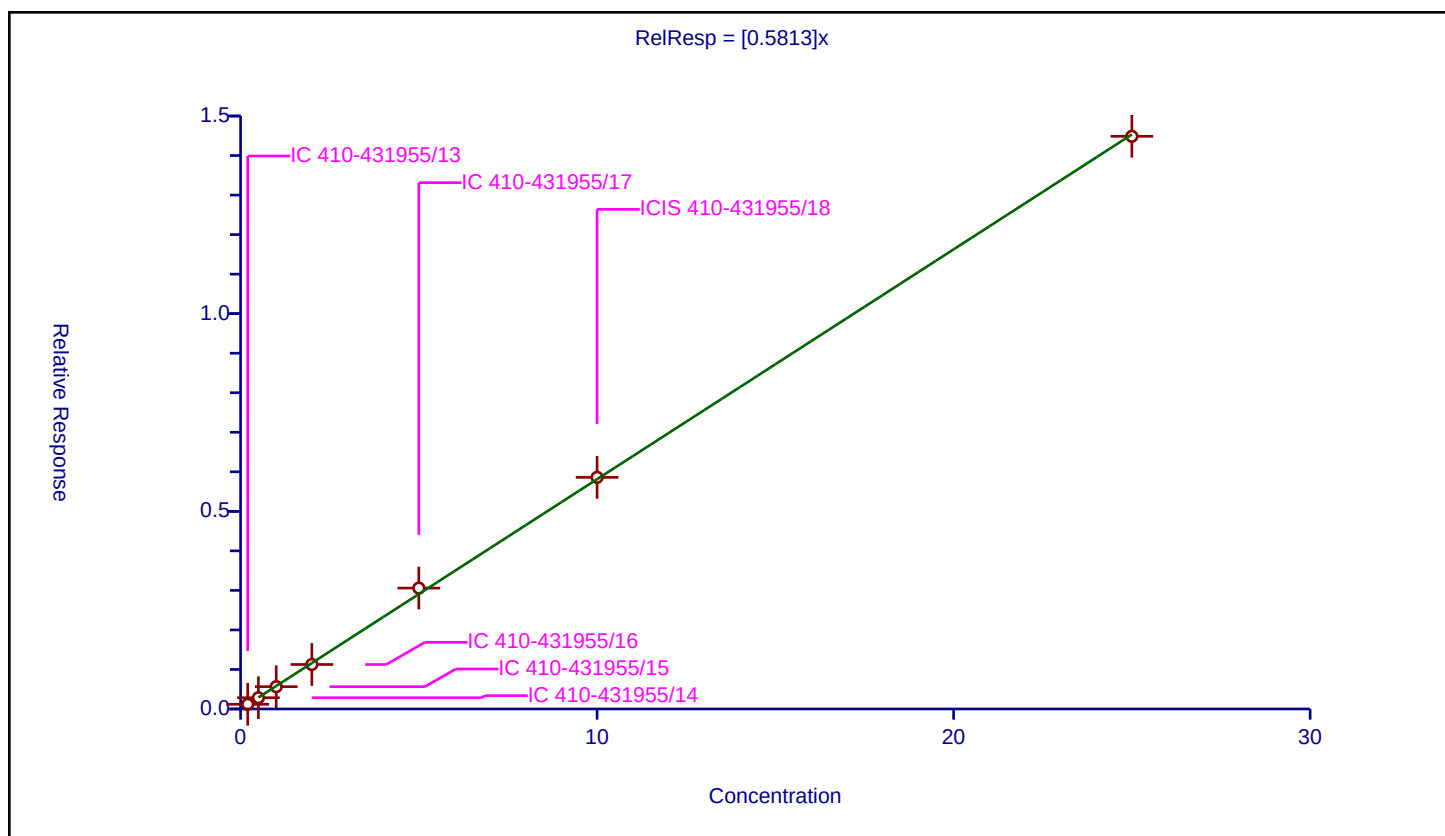
Curve Coefficients

Intercept: 0
Slope: 0.5813

Error Coefficients

Standard Error: 1210000
Relative Standard Error: 3.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.11902	10.0	1727945.0	0.5951	Y
2	IC 410-431955/14	0.5	0.285117	10.0	1732238.0	0.570233	Y
3	IC 410-431955/15	1.0	0.564293	10.0	1719834.0	0.564293	Y
4	IC 410-431955/16	2.0	1.125206	10.0	1746844.0	0.562603	Y
5	IC 410-431955/17	5.0	3.05825	10.0	1767939.0	0.61165	Y
6	ICIS 410-431955/18	10.0	5.859001	10.0	1790766.0	0.5859	Y
7	IC 410-431955/19	25.0	14.486725	10.0	1875183.0	0.579469	Y



Calibration

/ n-Heptane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

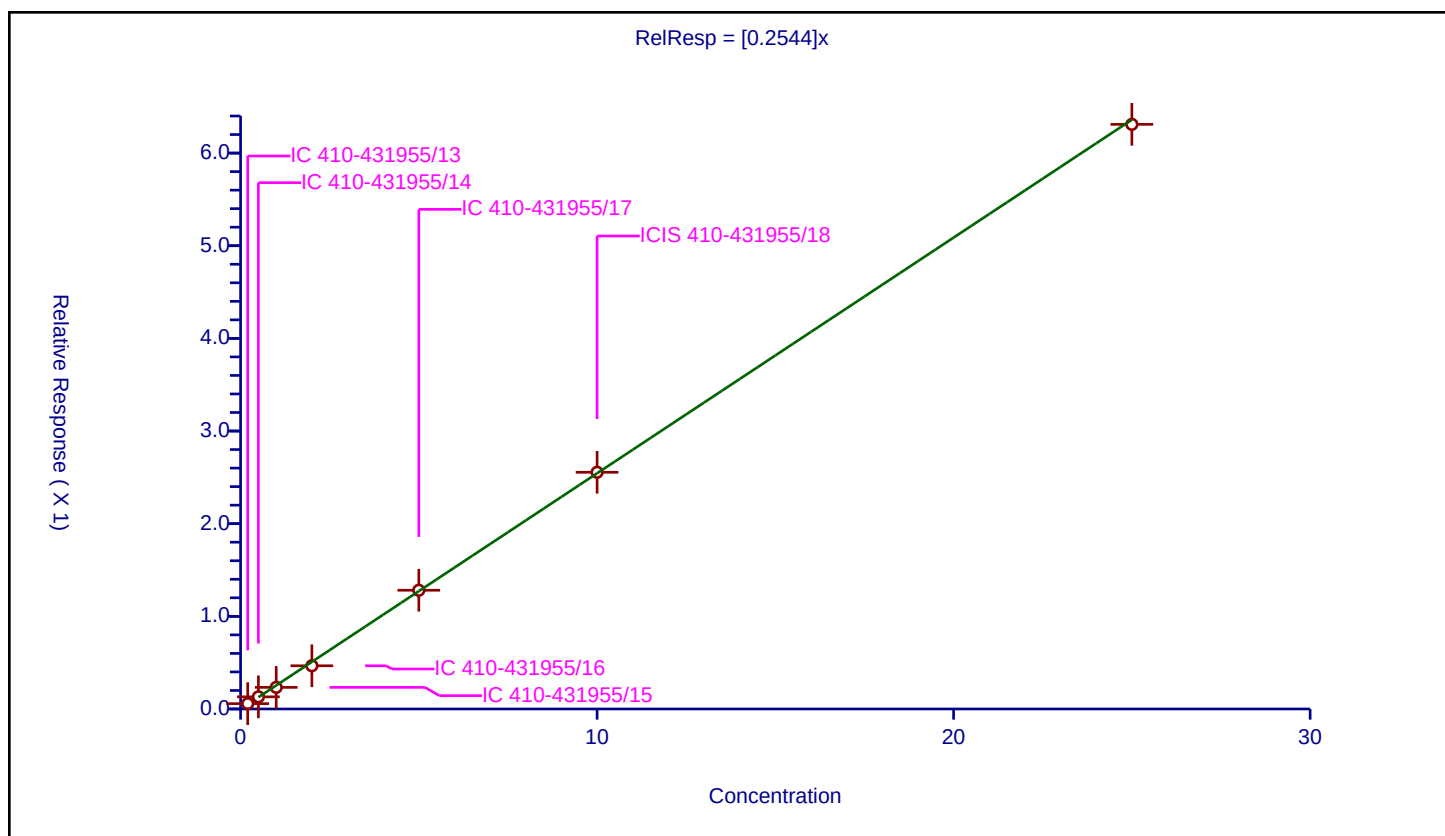
Curve Coefficients

Intercept: 0
 Slope: 0.2544

Error Coefficients

Standard Error: 527000
 Relative Standard Error: 7.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.057618	10.0	1727945.0	0.288088	Y
2	IC 410-431955/14	0.5	0.130975	10.0	1732238.0	0.26195	Y
3	IC 410-431955/15	1.0	0.233232	10.0	1719834.0	0.233232	Y
4	IC 410-431955/16	2.0	0.466487	10.0	1746844.0	0.233243	Y
5	IC 410-431955/17	5.0	1.281571	10.0	1767939.0	0.256314	Y
6	ICIS 410-431955/18	10.0	2.554884	10.0	1790766.0	0.255488	Y
7	IC 410-431955/19	25.0	6.309891	10.0	1875183.0	0.252396	Y



Calibration

/ n-Butanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

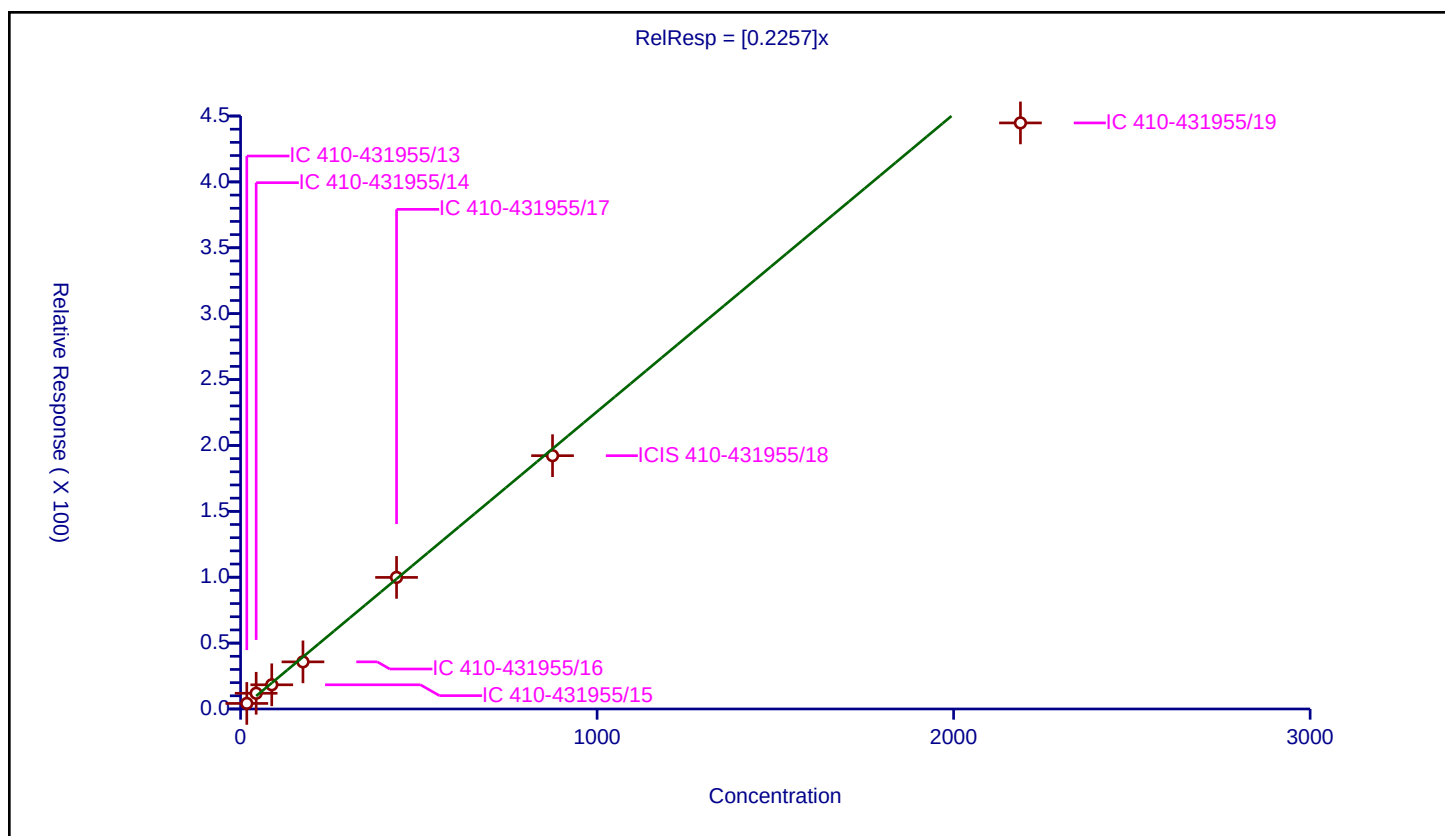
Curve Coefficients

Intercept: 0
Slope: 0.2257

Error Coefficients

Standard Error: 371000
Relative Standard Error: 11.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	17.5	4.221798	50.0	75501.0	0.241246	Y
2	IC 410-431955/14	43.75	11.934929	50.0	75057.0	0.272798	Y
3	IC 410-431955/15	87.5	18.37146	50.0	79384.0	0.20996	Y
4	IC 410-431955/16	175.0	35.770123	50.0	77137.0	0.204401	Y
5	IC 410-431955/17	437.5	99.868152	50.0	78879.0	0.22827	Y
6	ICIS 410-431955/18	875.0	192.23527	50.0	83963.0	0.219697	Y
7	IC 410-431955/19	2187.5	444.751078	50.0	93724.0	0.203315	Y



Calibration

/ Trichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

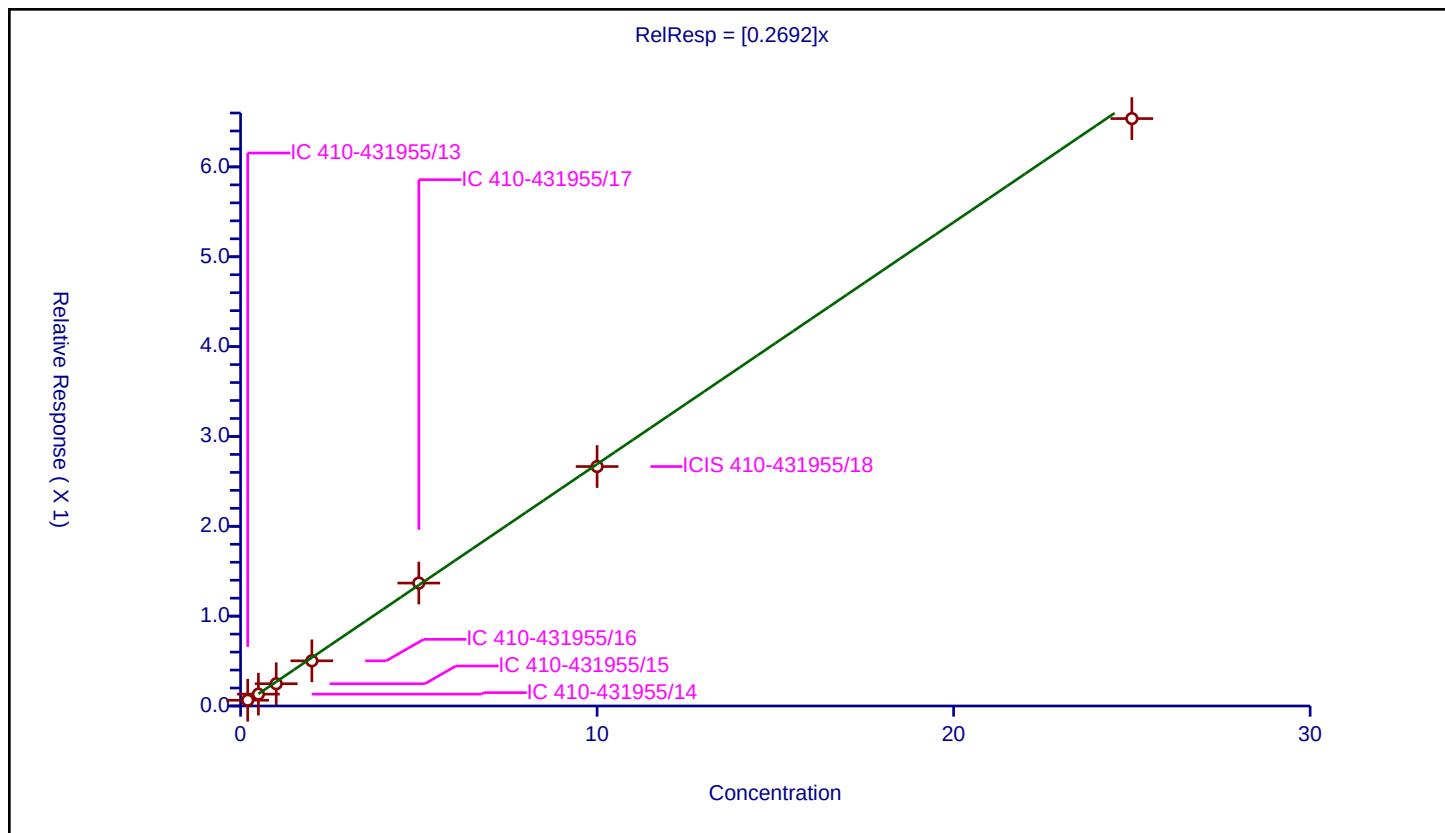
Curve Coefficients

Intercept: 0
Slope: 0.2692

Error Coefficients

Standard Error: 548000
Relative Standard Error: 8.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.063902	10.0	1727945.0	0.319512	Y
2	IC 410-431955/14	0.5	0.132055	10.0	1732238.0	0.264109	Y
3	IC 410-431955/15	1.0	0.247547	10.0	1719834.0	0.247547	Y
4	IC 410-431955/16	2.0	0.502775	10.0	1746844.0	0.251388	Y
5	IC 410-431955/17	5.0	1.368198	10.0	1767939.0	0.27364	Y
6	ICIS 410-431955/18	10.0	2.665206	10.0	1790766.0	0.266521	Y
7	IC 410-431955/19	25.0	6.537831	10.0	1875183.0	0.261513	Y



Calibration

/ Methylcyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

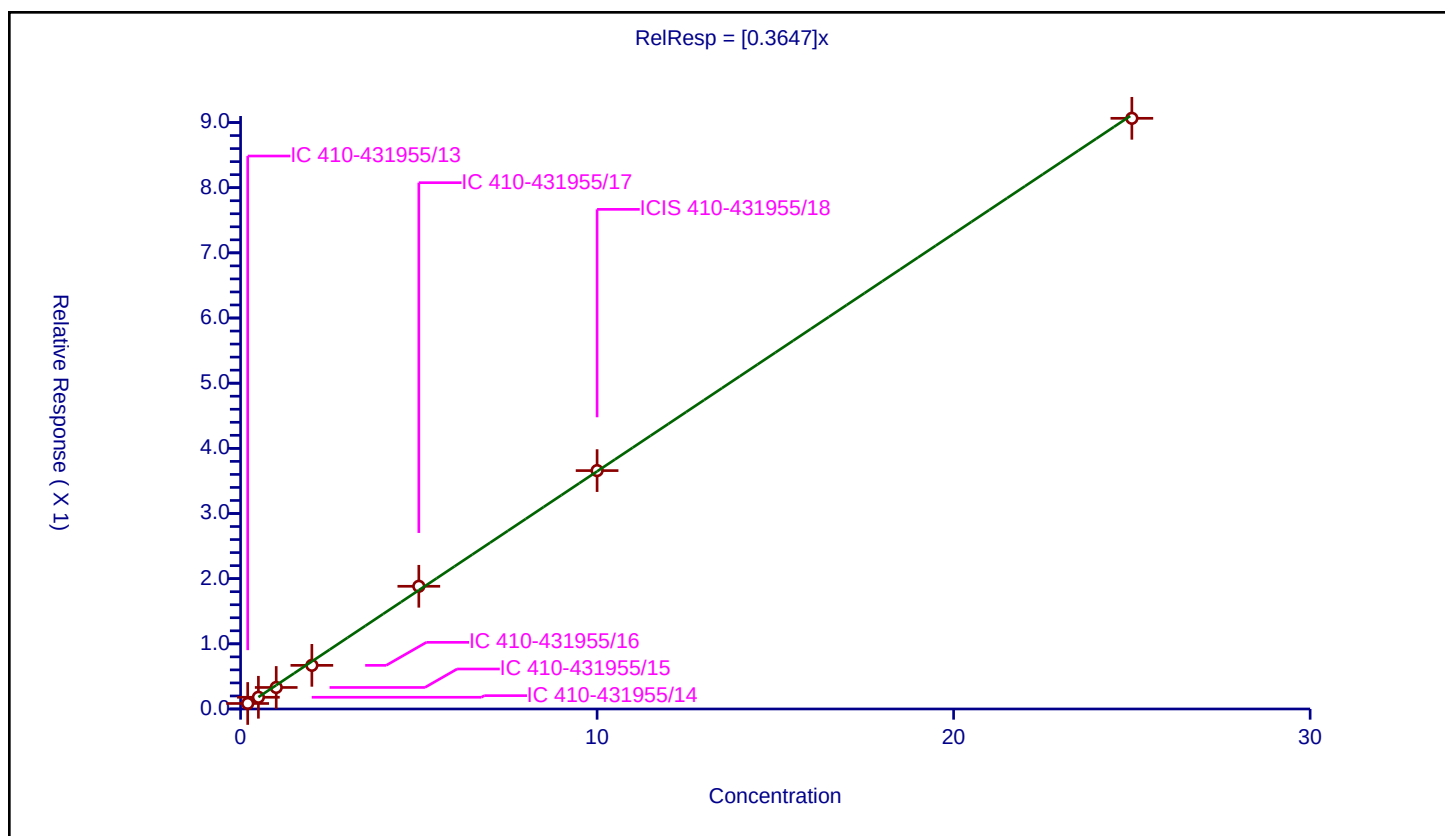
Curve Coefficients

Intercept: 0
Slope: 0.3647

Error Coefficients

Standard Error: 758000
Relative Standard Error: 8.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.08447	10.0	1727945.0	0.422351	Y
2	IC 410-431955/14	0.5	0.179929	10.0	1732238.0	0.359858	Y
3	IC 410-431955/15	1.0	0.330602	10.0	1719834.0	0.330602	Y
4	IC 410-431955/16	2.0	0.669596	10.0	1746844.0	0.334798	Y
5	IC 410-431955/17	5.0	1.883068	10.0	1767939.0	0.376614	Y
6	ICIS 410-431955/18	10.0	3.658256	10.0	1790766.0	0.365826	Y
7	IC 410-431955/19	25.0	9.064817	10.0	1875183.0	0.362593	Y



Calibration

/ 1,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

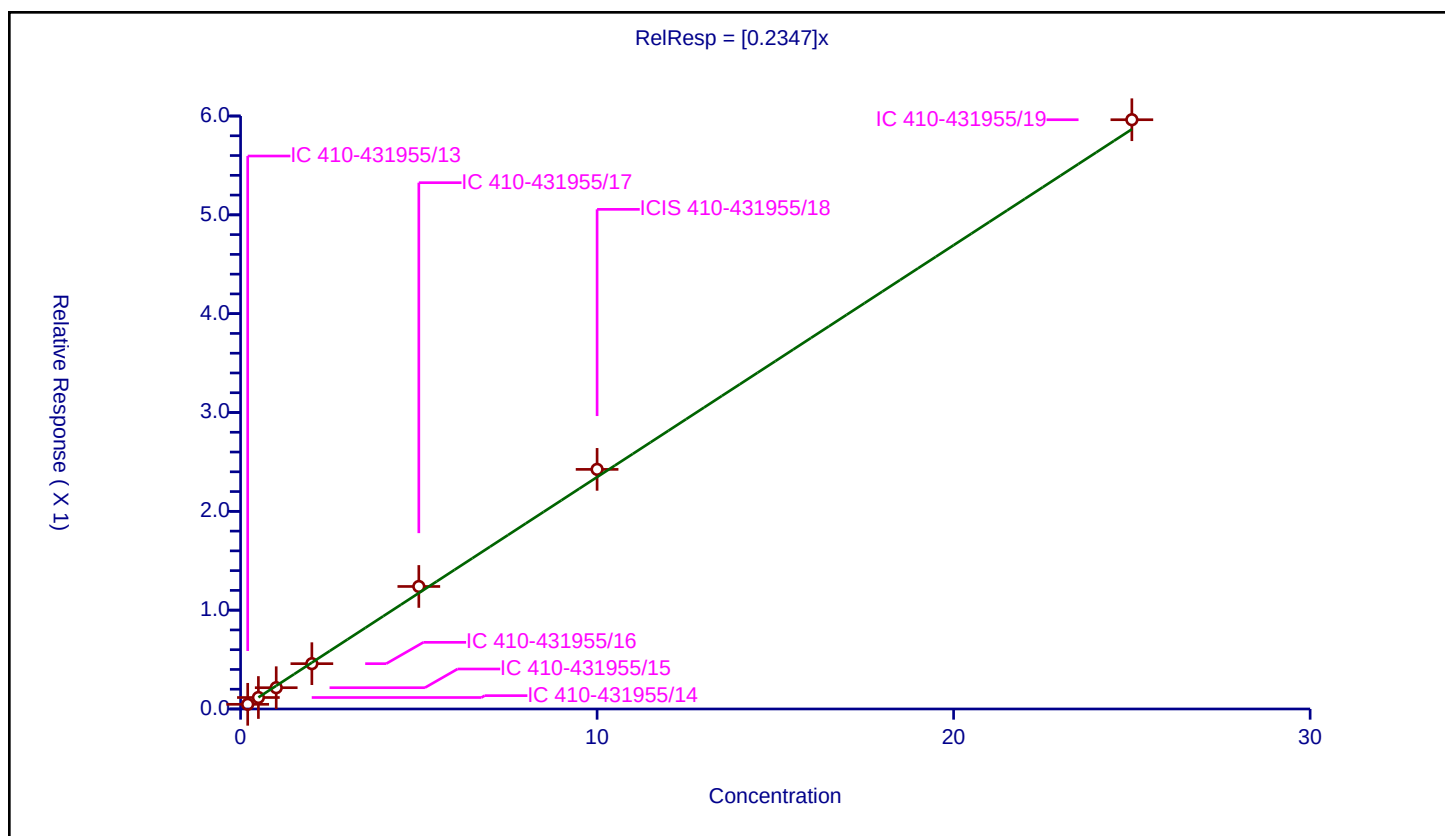
Curve Coefficients

Intercept: 0
Slope: 0.2347

Error Coefficients

Standard Error: 499000
Relative Standard Error: 4.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.047328	10.0	1727945.0	0.236639	Y
2	IC 410-431955/14	0.5	0.116127	10.0	1732238.0	0.232254	Y
3	IC 410-431955/15	1.0	0.215451	10.0	1719834.0	0.215451	Y
4	IC 410-431955/16	2.0	0.45865	10.0	1746844.0	0.229325	Y
5	IC 410-431955/17	5.0	1.23963	10.0	1767939.0	0.247926	Y
6	ICIS 410-431955/18	10.0	2.424588	10.0	1790766.0	0.242459	Y
7	IC 410-431955/19	25.0	5.962463	10.0	1875183.0	0.238499	Y



Calibration

/ Methyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

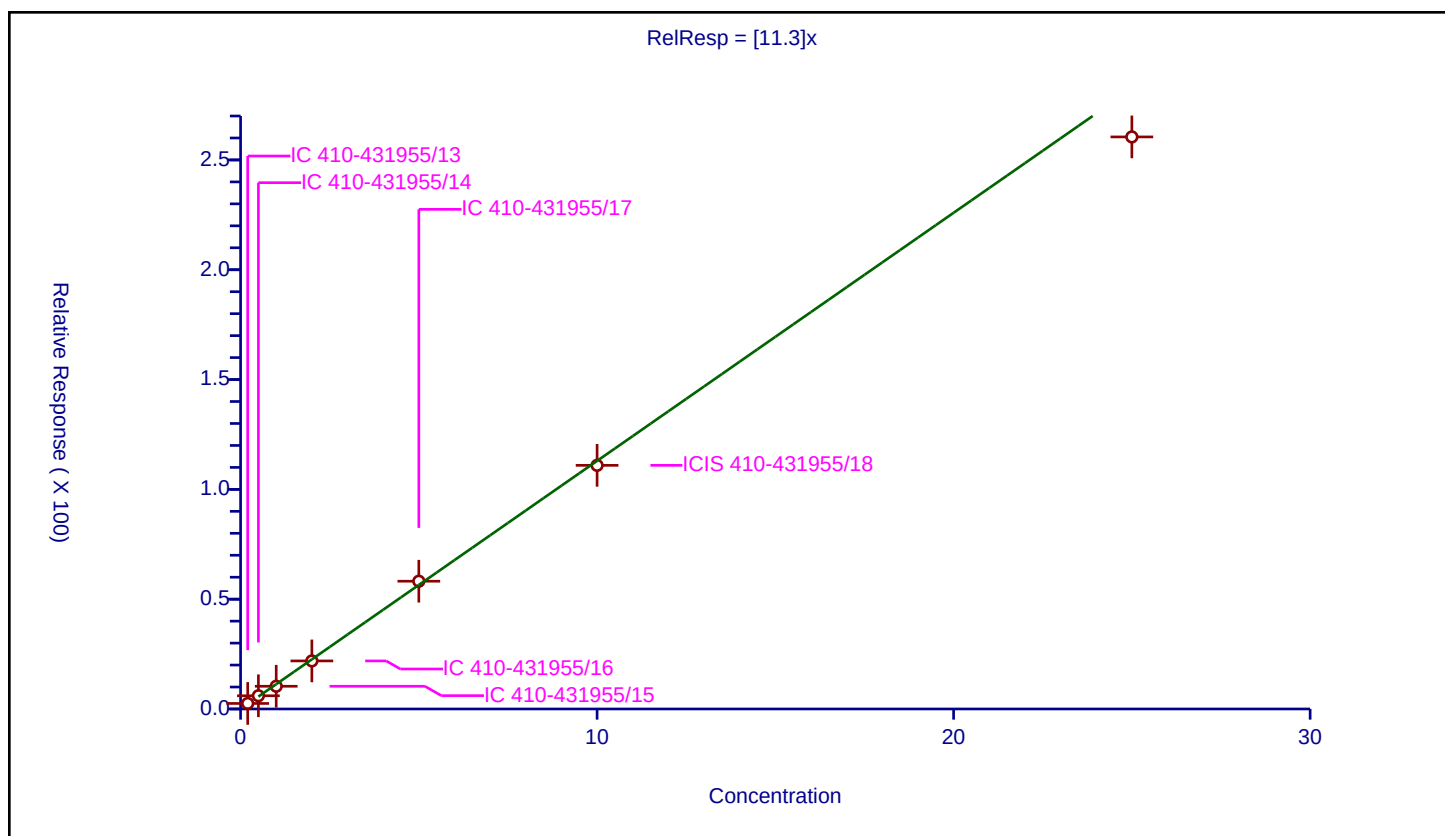
Curve Coefficients

Intercept: 0
Slope: 11.3

Error Coefficients

Standard Error: 217000
Relative Standard Error: 7.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	2.520496	50.0	75501.0	12.602482	Y
2	IC 410-431955/14	0.5	6.012097	50.0	75057.0	12.024195	Y
3	IC 410-431955/15	1.0	10.355361	50.0	79384.0	10.355361	Y
4	IC 410-431955/16	2.0	21.89157	50.0	77137.0	10.945785	Y
5	IC 410-431955/17	5.0	58.178983	50.0	78879.0	11.635797	Y
6	ICIS 410-431955/18	10.0	110.933387	50.0	83963.0	11.093339	Y
7	IC 410-431955/19	25.0	260.481307	50.0	93724.0	10.419252	Y



Calibration

/ 1,4-Dioxane

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

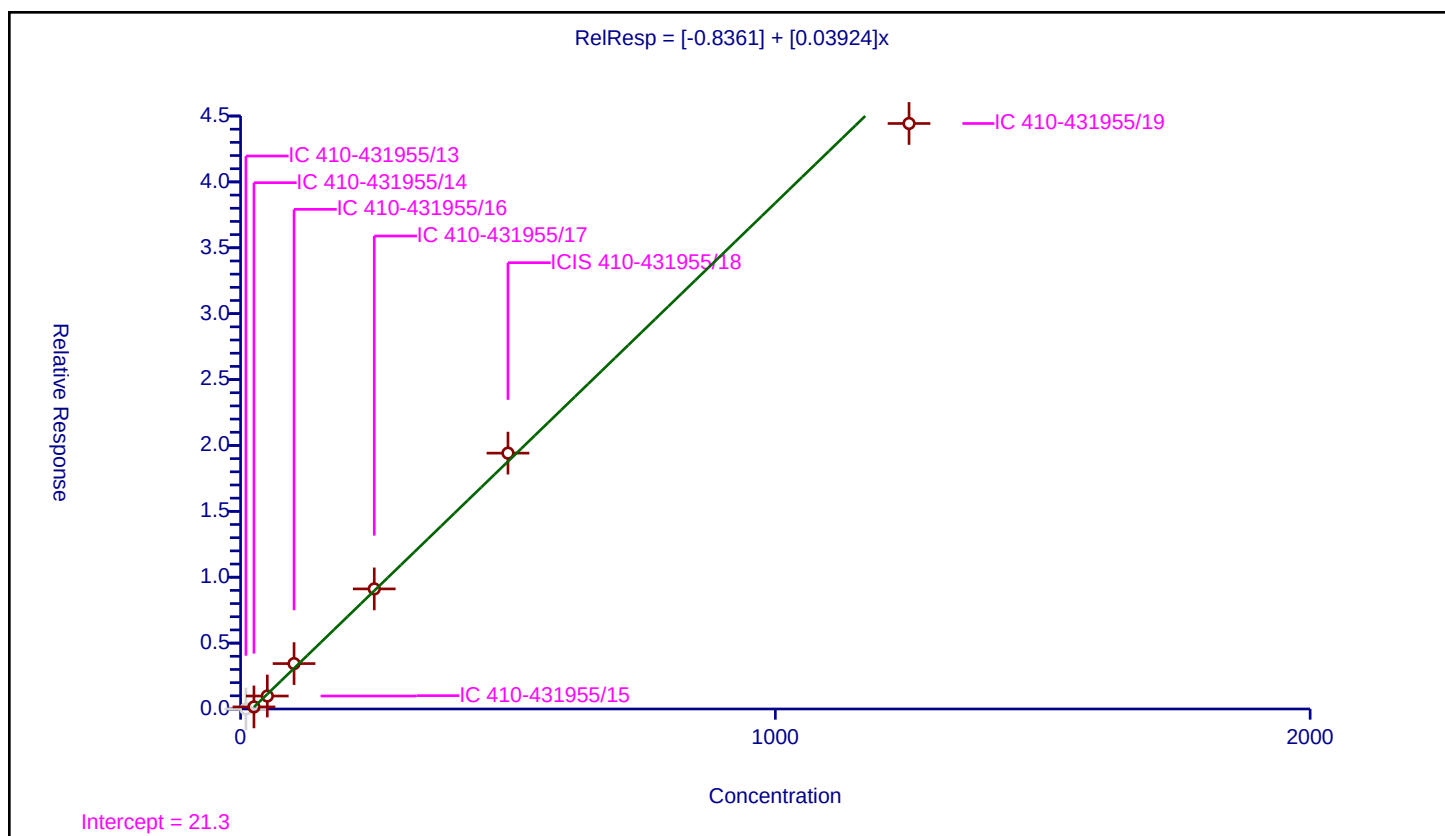
Curve Coefficients

Intercept: -0.8361
Slope: 0.03924

Error Coefficients

Standard Error: 45400
Relative Standard Error: 7.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	10.0	0.0	50.0	75501.0	0.0	N
2	IC 410-431955/14	25.0	0.156548	50.0	75057.0	0.006262	Y
3	IC 410-431955/15	50.0	0.984455	50.0	79384.0	0.019689	Y
4	IC 410-431955/16	100.0	3.444521	50.0	77137.0	0.034445	Y
5	IC 410-431955/17	250.0	9.113959	50.0	78879.0	0.036456	Y
6	ICIS 410-431955/18	500.0	19.416886	50.0	83963.0	0.038834	Y
7	IC 410-431955/19	1250.0	44.43419	50.0	93724.0	0.035547	Y



Calibration

/ Dibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

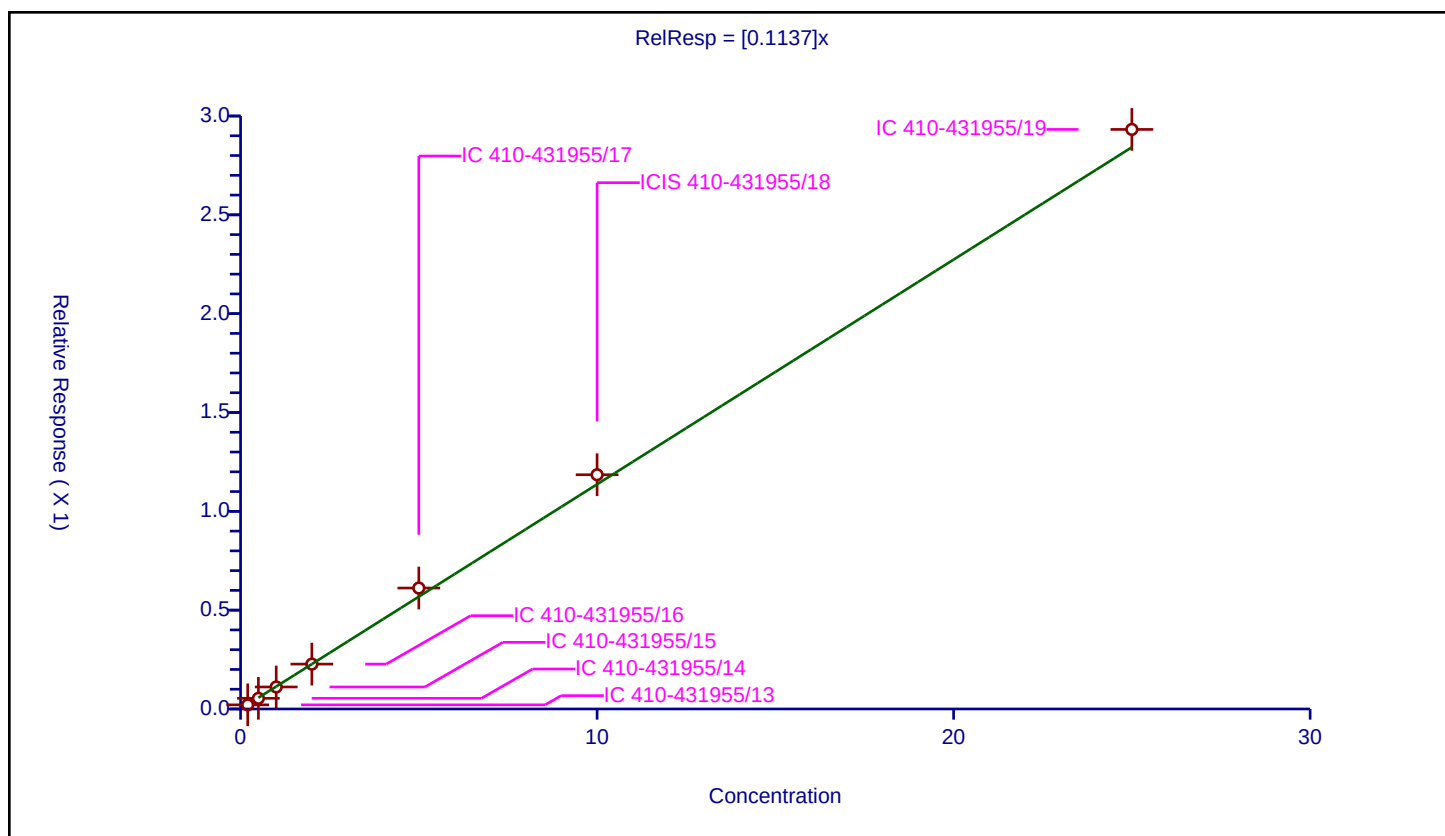
Curve Coefficients

Intercept: 0
Slope: 0.1137

Error Coefficients

Standard Error: 245000
Relative Standard Error: 5.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.020932	10.0	1727945.0	0.104662	Y
2	IC 410-431955/14	0.5	0.054017	10.0	1732238.0	0.108034	Y
3	IC 410-431955/15	1.0	0.111342	10.0	1719834.0	0.111342	Y
4	IC 410-431955/16	2.0	0.227078	10.0	1746844.0	0.113539	Y
5	IC 410-431955/17	5.0	0.611854	10.0	1767939.0	0.122371	Y
6	ICIS 410-431955/18	10.0	1.185096	10.0	1790766.0	0.11851	Y
7	IC 410-431955/19	25.0	2.93214	10.0	1875183.0	0.117286	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

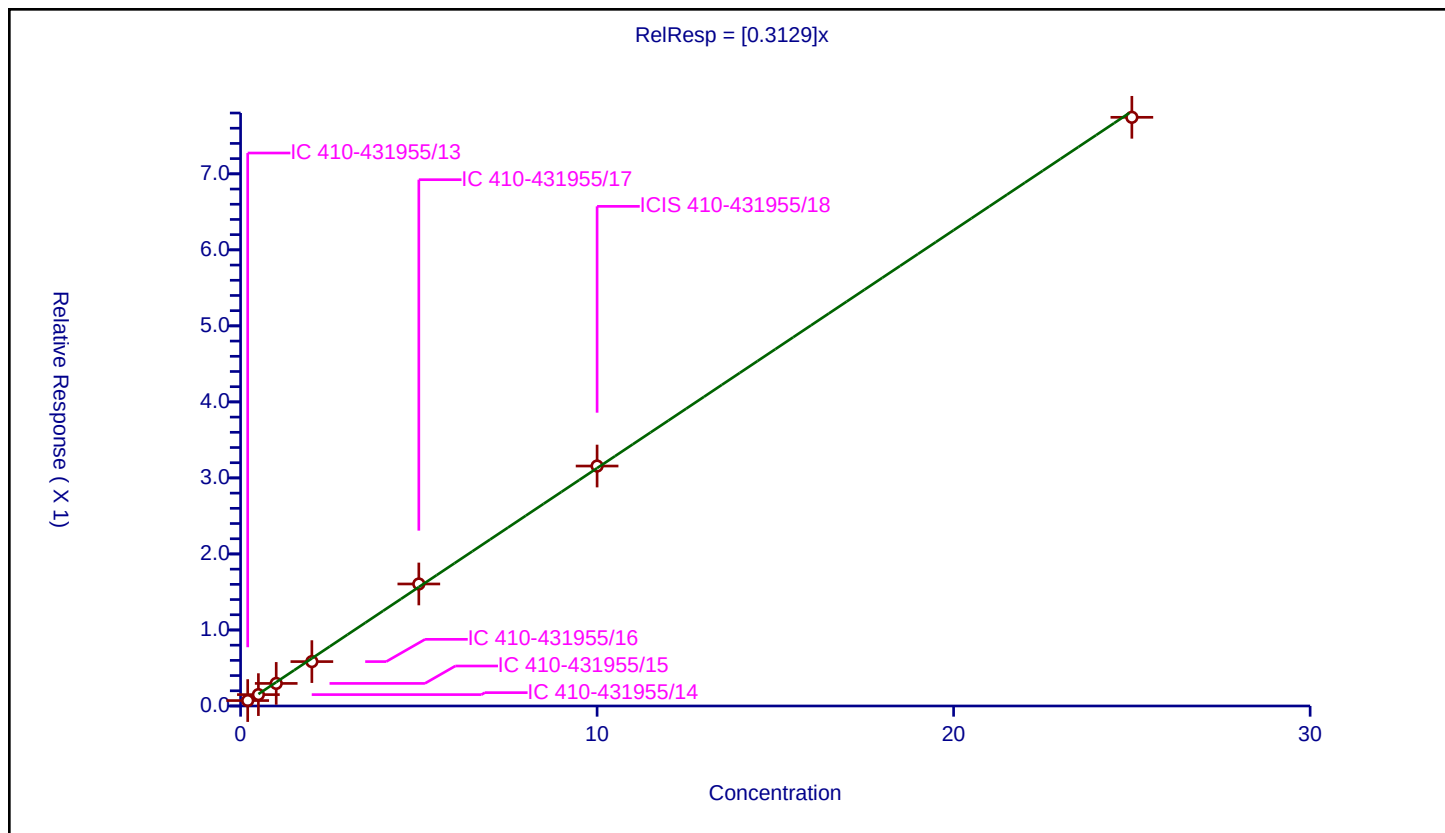
Curve Coefficients

Intercept: 0
Slope: 0.3129

Error Coefficients

Standard Error: 648000
Relative Standard Error: 7.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.071235	10.0	1727945.0	0.356175	Y
2	IC 410-431955/14	0.5	0.149506	10.0	1732238.0	0.299012	Y
3	IC 410-431955/15	1.0	0.296936	10.0	1719834.0	0.296936	Y
4	IC 410-431955/16	2.0	0.583841	10.0	1746844.0	0.291921	Y
5	IC 410-431955/17	5.0	1.605078	10.0	1767939.0	0.321016	Y
6	ICIS 410-431955/18	10.0	3.156292	10.0	1790766.0	0.315629	Y
7	IC 410-431955/19	25.0	7.743394	10.0	1875183.0	0.309736	Y



Calibration

/ 2-Nitropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

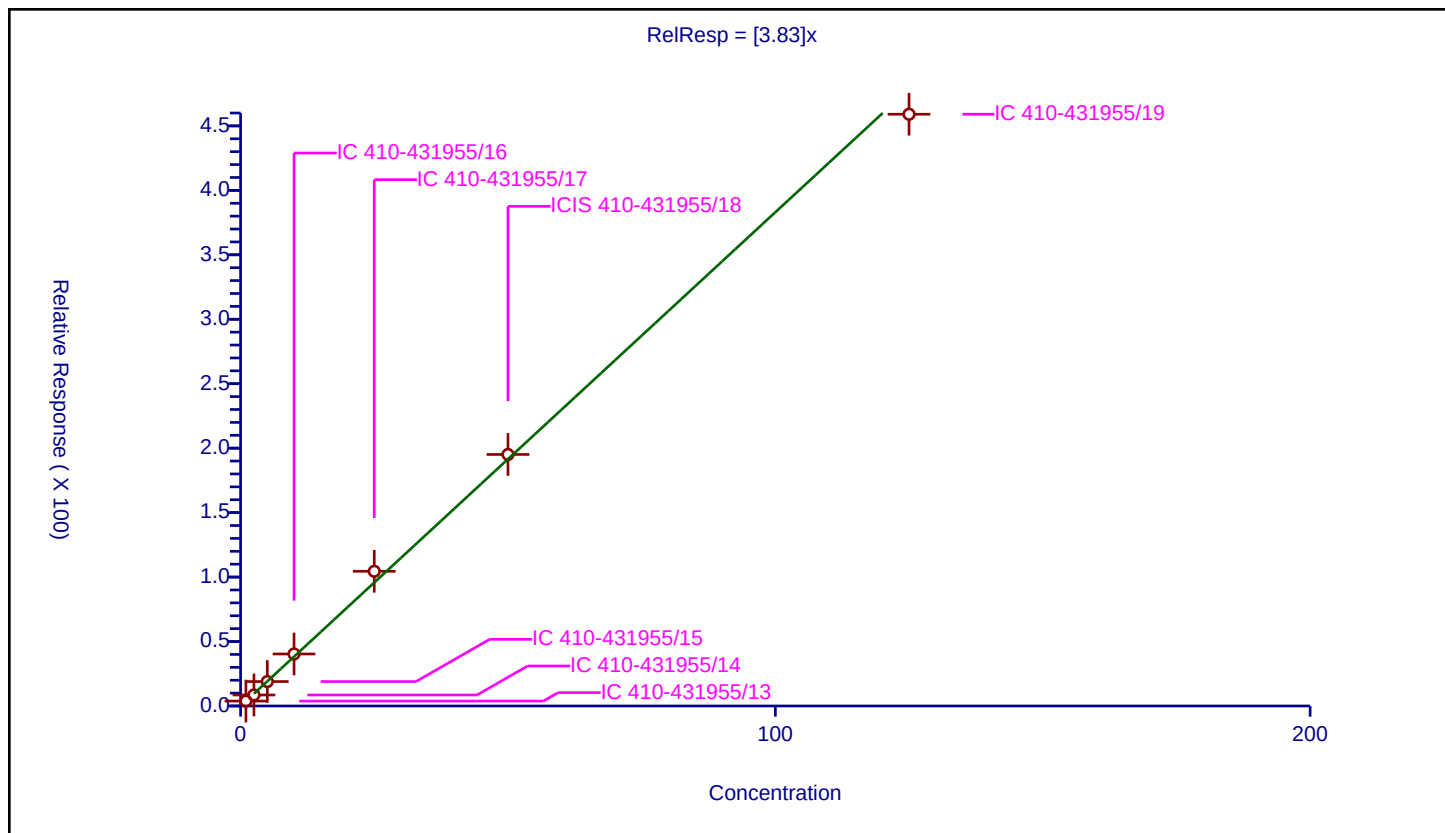
Curve Coefficients

Intercept: 0
 Slope: 3.83

Error Coefficients

Standard Error: 383000
 Relative Standard Error: 6.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	1.0	3.814519	50.0	75501.0	3.814519	Y
2	IC 410-431955/14	2.5	8.537511	50.0	75057.0	3.415005	Y
3	IC 410-431955/15	5.0	18.962889	50.0	79384.0	3.792578	Y
4	IC 410-431955/16	10.0	40.358064	50.0	77137.0	4.035806	Y
5	IC 410-431955/17	25.0	104.494859	50.0	78879.0	4.179794	Y
6	ICIS 410-431955/18	50.0	195.128211	50.0	83963.0	3.902564	Y
7	IC 410-431955/19	125.0	459.043575	50.0	93724.0	3.672349	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

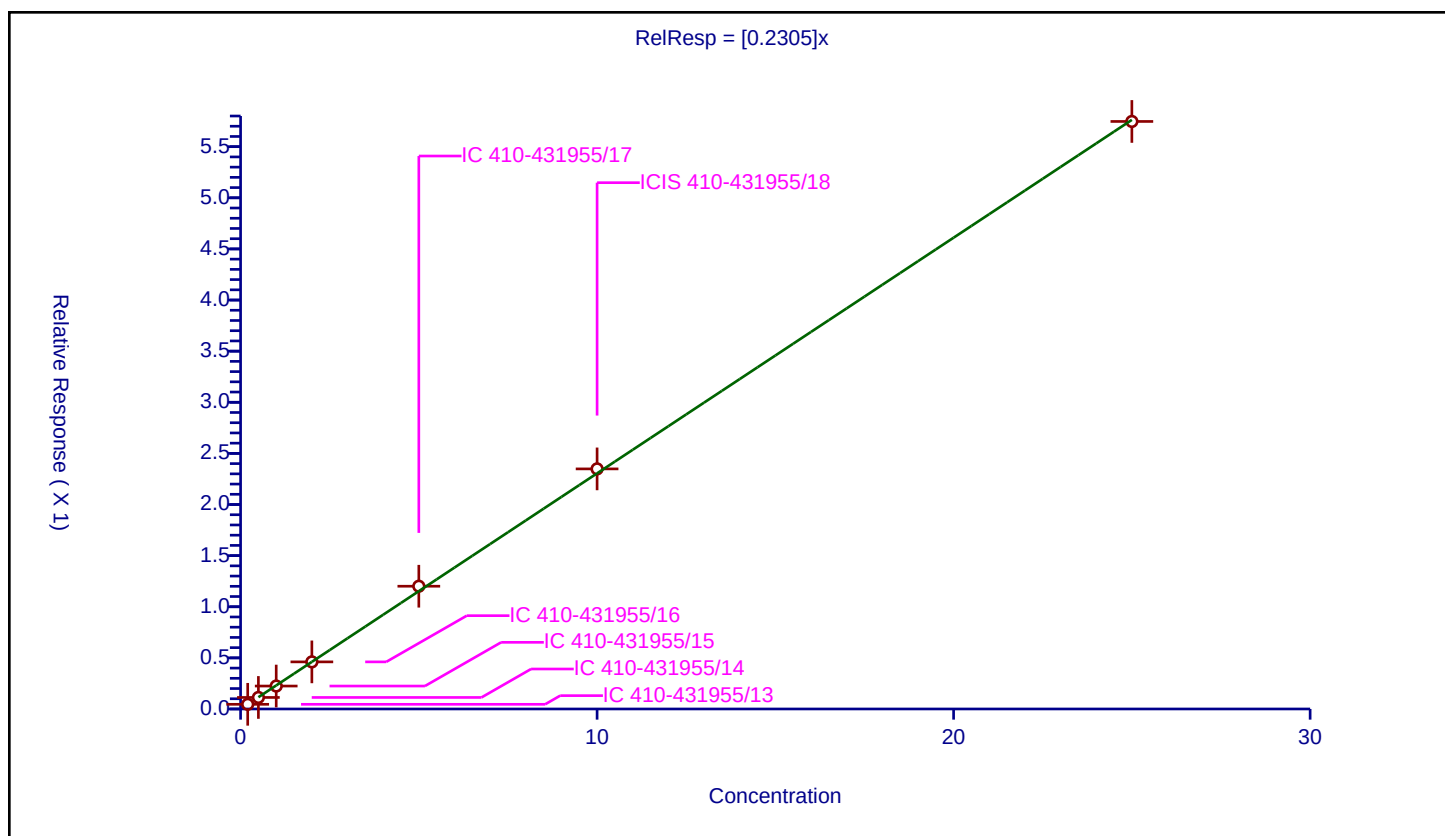
Curve Coefficients

Intercept: 0
Slope: 0.2305

Error Coefficients

Standard Error: 482000
Relative Standard Error: 2.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.045707	10.0	1727945.0	0.228537	Y
2	IC 410-431955/14	0.5	0.112692	10.0	1732238.0	0.225385	Y
3	IC 410-431955/15	1.0	0.224347	10.0	1719834.0	0.224347	Y
4	IC 410-431955/16	2.0	0.460734	10.0	1746844.0	0.230367	Y
5	IC 410-431955/17	5.0	1.200647	10.0	1767939.0	0.240129	Y
6	ICIS 410-431955/18	10.0	2.348392	10.0	1790766.0	0.234839	Y
7	IC 410-431955/19	25.0	5.746863	10.0	1875183.0	0.229875	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

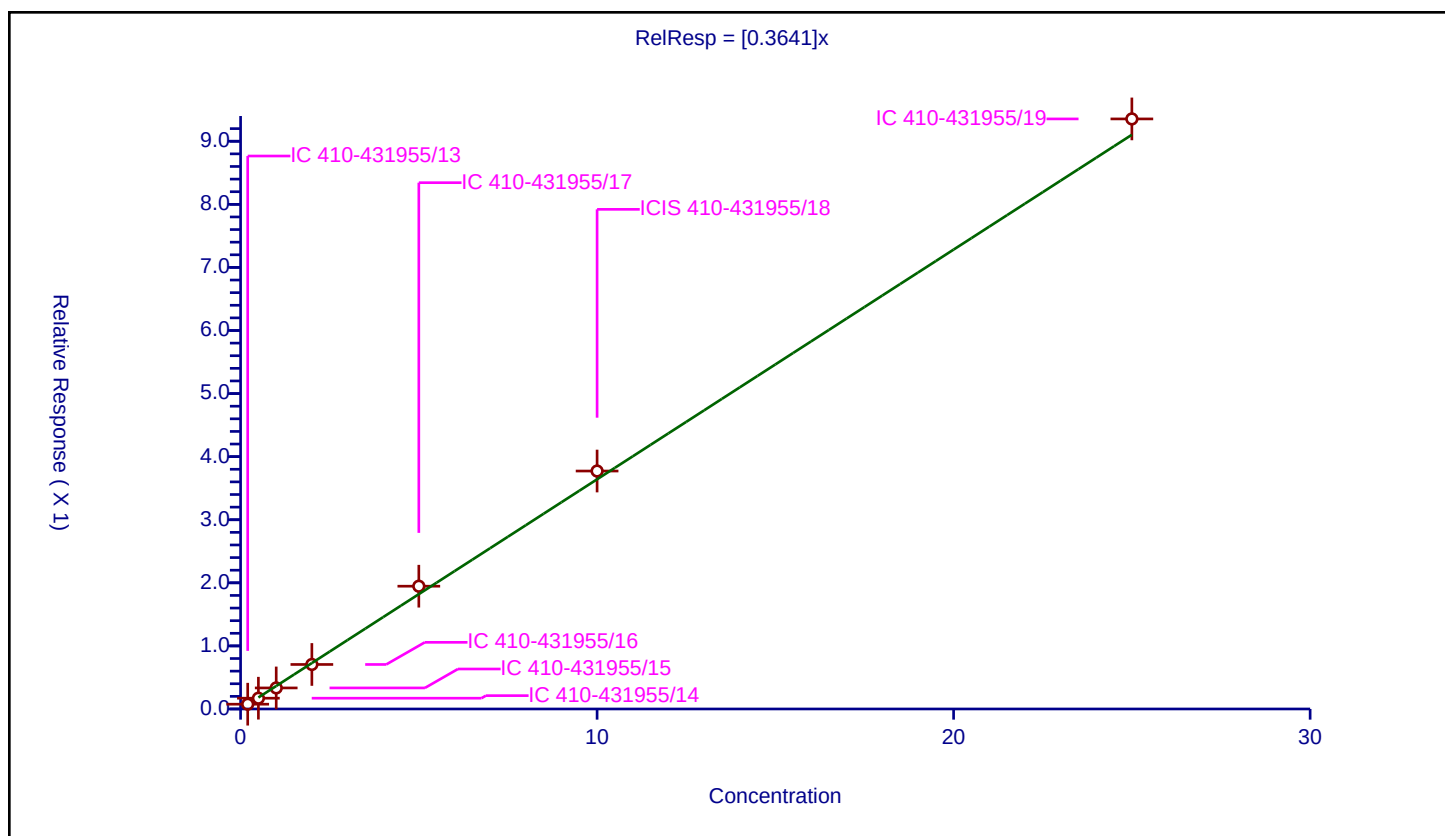
Curve Coefficients

Intercept: 0
Slope: 0.3641

Error Coefficients

Standard Error: 782000
Relative Standard Error: 5.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.075888	10.0	1727945.0	0.379439	Y
2	IC 410-431955/14	0.5	0.170946	10.0	1732238.0	0.341893	Y
3	IC 410-431955/15	1.0	0.333945	10.0	1719834.0	0.333945	Y
4	IC 410-431955/16	2.0	0.705821	10.0	1746844.0	0.352911	Y
5	IC 410-431955/17	5.0	1.946492	10.0	1767939.0	0.389298	Y
6	ICIS 410-431955/18	10.0	3.772067	10.0	1790766.0	0.377207	Y
7	IC 410-431955/19	25.0	9.353834	10.0	1875183.0	0.374153	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

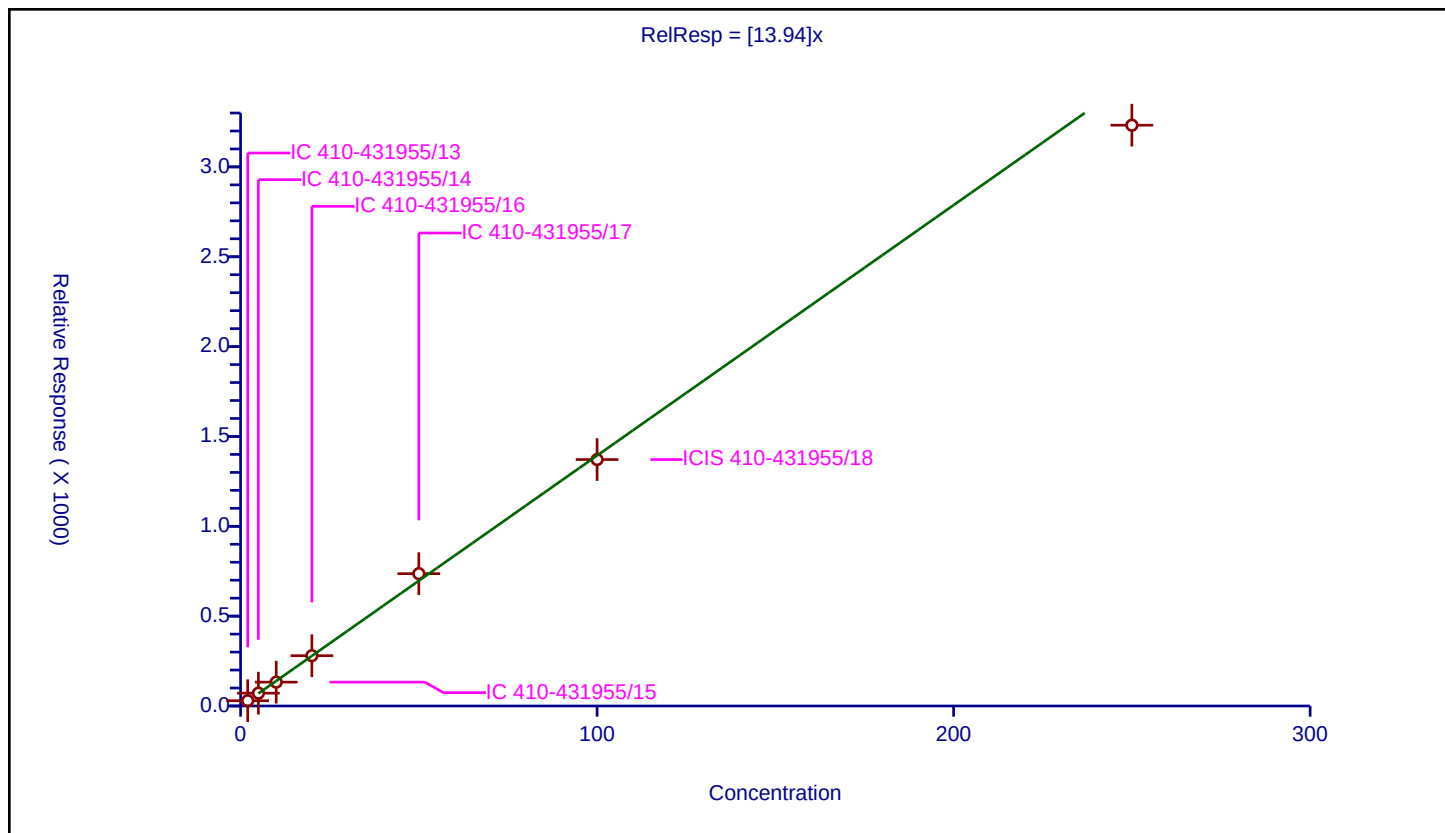
Curve Coefficients

Intercept: 0
 Slope: 13.94

Error Coefficients

Standard Error: 2690000
 Relative Standard Error: 4.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	2.0	29.270473	50.0	75501.0	14.635237	Y
2	IC 410-431955/14	5.0	71.441038	50.0	75057.0	14.288208	Y
3	IC 410-431955/15	10.0	132.706843	50.0	79384.0	13.270684	Y
4	IC 410-431955/16	20.0	279.859212	50.0	77137.0	13.992961	Y
5	IC 410-431955/17	50.0	736.497674	50.0	78879.0	14.729953	Y
6	ICIS 410-431955/18	100.0	1371.464812	50.0	83963.0	13.714648	Y
7	IC 410-431955/19	250.0	3232.142247	50.0	93724.0	12.928569	Y



Calibration

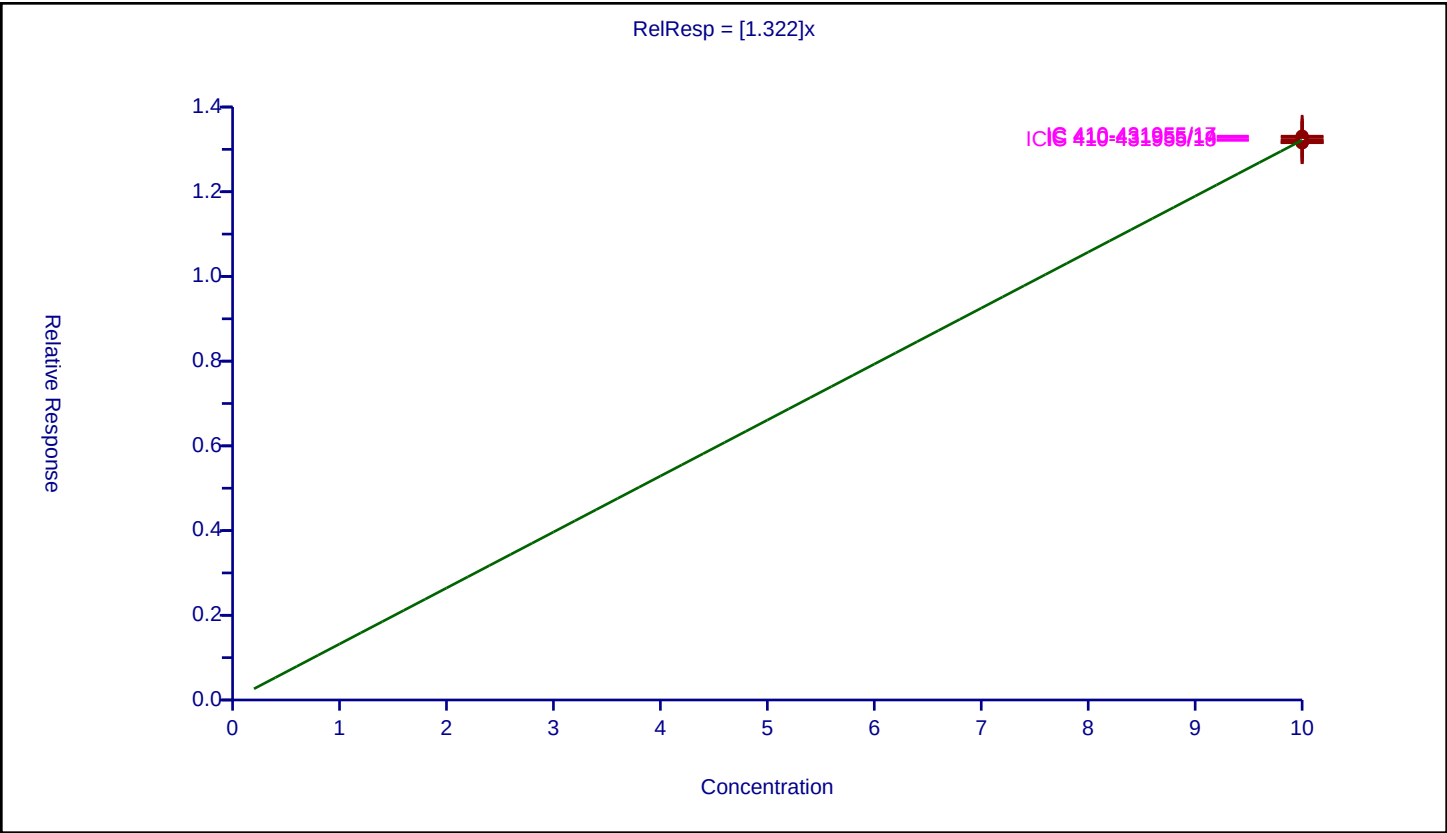
/ Toluene-d8 (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.322

Error Coefficients	
Standard Error:	1910000
Relative Standard Error:	0.5
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0.0000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	10.0	13.156875	10.0	1303181.0	1.315688	Y
2	IC 410-431955/14	10.0	13.282337	10.0	1303431.0	1.328234	Y
3	IC 410-431955/15	10.0	13.166295	10.0	1309701.0	1.31663	Y
4	IC 410-431955/16	10.0	13.165205	10.0	1328211.0	1.31652	Y
5	IC 410-431955/17	10.0	13.310918	10.0	1333491.0	1.331092	Y
6	ICIS 410-431955/18	10.0	13.219322	10.0	1358954.0	1.321932	Y
7	IC 410-431955/19	10.0	13.217525	10.0	1426382.0	1.321753	Y



Calibration

/ Toluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

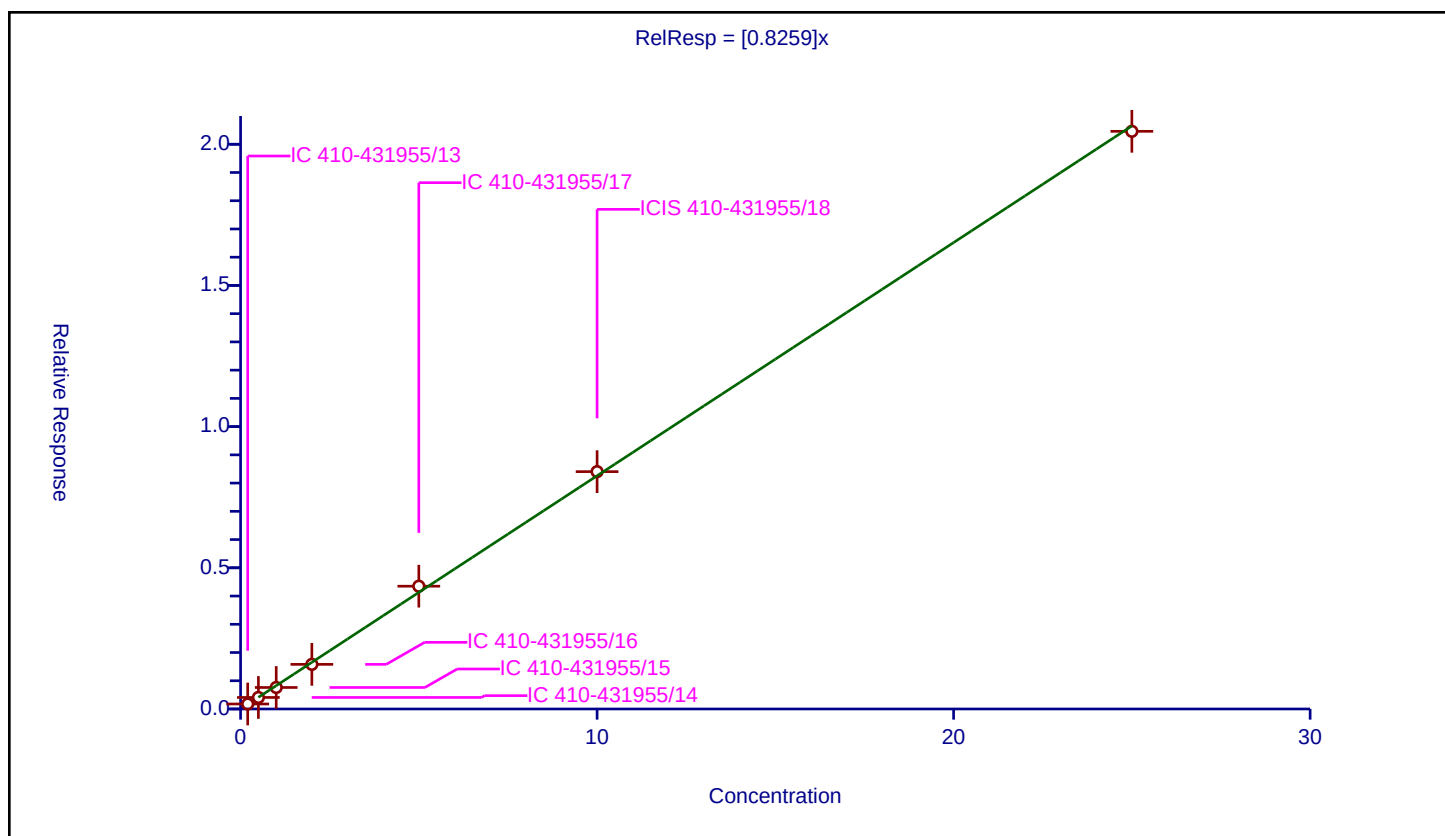
Curve Coefficients

Intercept: 0
 Slope: 0.8259

Error Coefficients

Standard Error: 1300000
 Relative Standard Error: 5.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.177028	10.0	1303181.0	0.885142	Y
2	IC 410-431955/14	0.5	0.408046	10.0	1303431.0	0.816092	Y
3	IC 410-431955/15	1.0	0.761204	10.0	1309701.0	0.761204	Y
4	IC 410-431955/16	2.0	1.580645	10.0	1328211.0	0.790322	Y
5	IC 410-431955/17	5.0	4.348578	10.0	1333491.0	0.869716	Y
6	ICIS 410-431955/18	10.0	8.405811	10.0	1358954.0	0.840581	Y
7	IC 410-431955/19	25.0	20.458208	10.0	1426382.0	0.818328	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

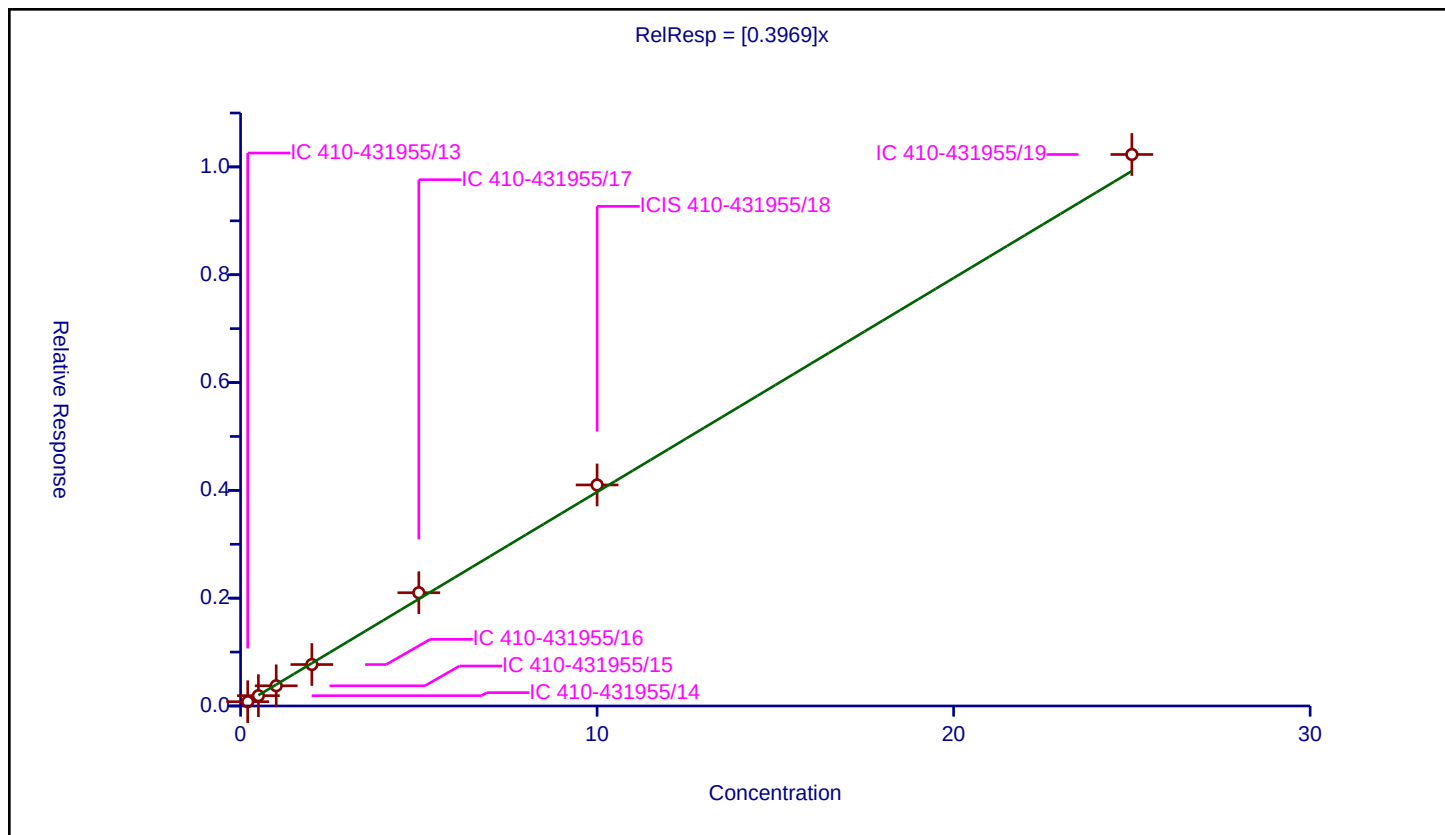
Curve Coefficients

Intercept: 0
Slope: 0.3969

Error Coefficients

Standard Error: 650000
Relative Standard Error: 4.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.079475	10.0	1303181.0	0.397374	Y
2	IC 410-431955/14	0.5	0.191303	10.0	1303431.0	0.382606	Y
3	IC 410-431955/15	1.0	0.374574	10.0	1309701.0	0.374574	Y
4	IC 410-431955/16	2.0	0.769042	10.0	1328211.0	0.384521	Y
5	IC 410-431955/17	5.0	2.101027	10.0	1333491.0	0.420205	Y
6	ICIS 410-431955/18	10.0	4.100448	10.0	1358954.0	0.410045	Y
7	IC 410-431955/19	25.0	10.230801	10.0	1426382.0	0.409232	Y



Calibration

/ Ethyl methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

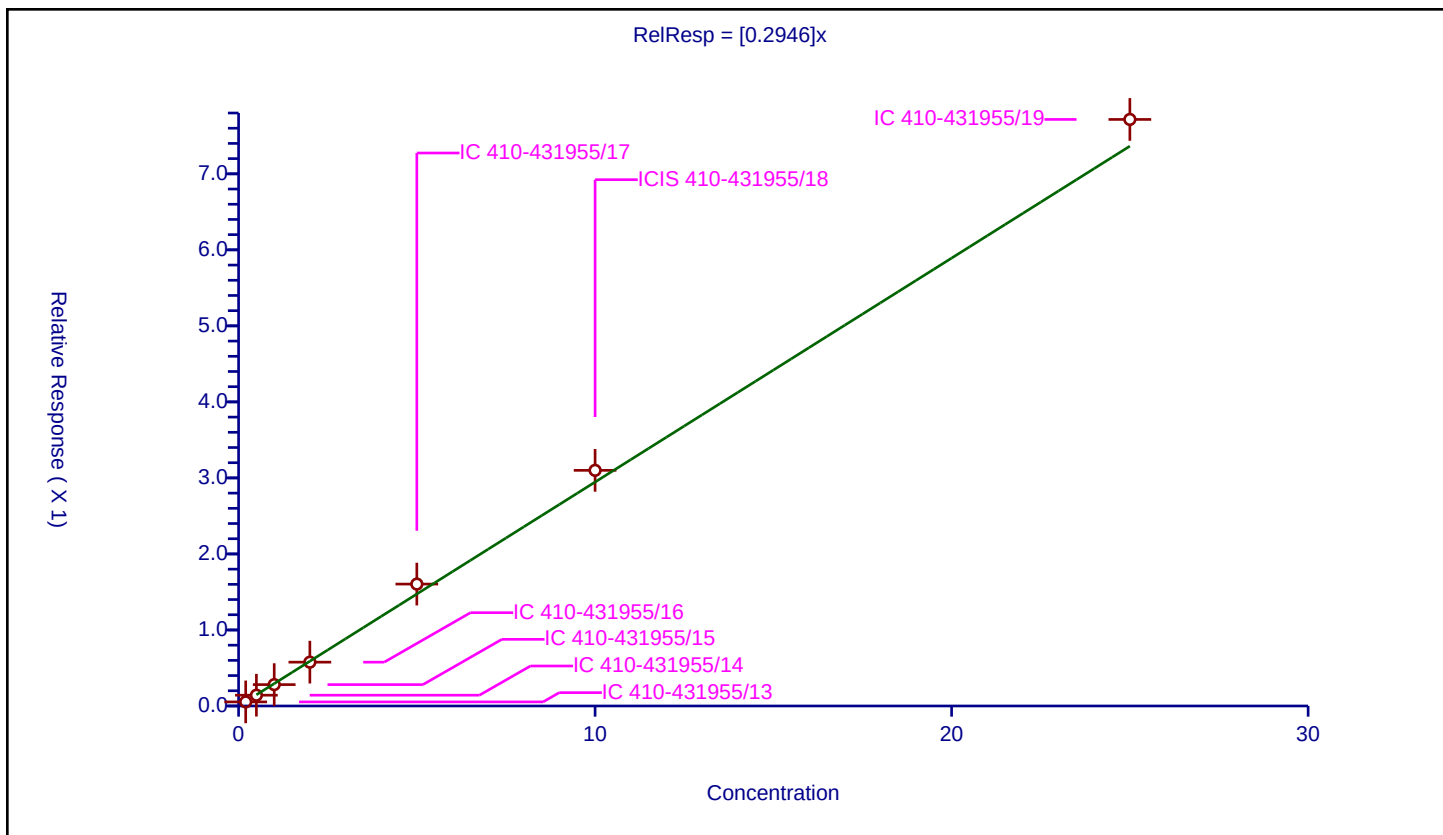
Curve Coefficients

Intercept: 0
 Slope: 0.2946

Error Coefficients

Standard Error: 490000
 Relative Standard Error: 6.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.05393	10.0	1303181.0	0.269648	Y
2	IC 410-431955/14	0.5	0.141787	10.0	1303431.0	0.283575	Y
3	IC 410-431955/15	1.0	0.281141	10.0	1309701.0	0.281141	Y
4	IC 410-431955/16	2.0	0.576618	10.0	1328211.0	0.288309	Y
5	IC 410-431955/17	5.0	1.603633	10.0	1333491.0	0.320727	Y
6	ICIS 410-431955/18	10.0	3.09973	10.0	1358954.0	0.309973	Y
7	IC 410-431955/19	25.0	7.715521	10.0	1426382.0	0.308621	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

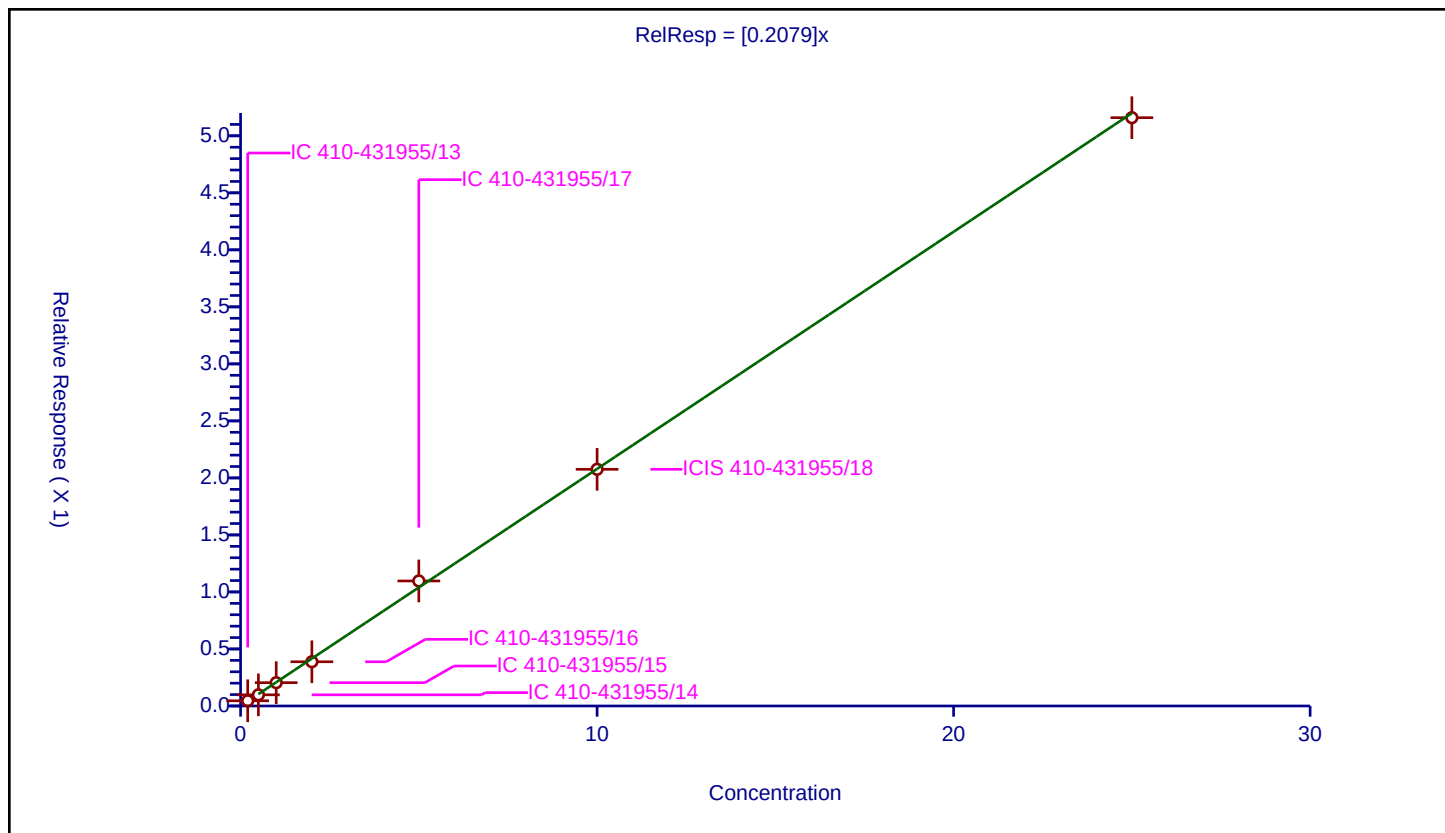
Curve Coefficients

Intercept: 0
Slope: 0.2079

Error Coefficients

Standard Error: 328000
Relative Standard Error: 5.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.045627	10.0	1303181.0	0.228134	Y
2	IC 410-431955/14	0.5	0.097872	10.0	1303431.0	0.195745	Y
3	IC 410-431955/15	1.0	0.204421	10.0	1309701.0	0.204421	Y
4	IC 410-431955/16	2.0	0.38795	10.0	1328211.0	0.193975	Y
5	IC 410-431955/17	5.0	1.096453	10.0	1333491.0	0.219291	Y
6	ICIS 410-431955/18	10.0	2.075633	10.0	1358954.0	0.207563	Y
7	IC 410-431955/19	25.0	5.158997	10.0	1426382.0	0.20636	Y



Calibration

/ Tetrachloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

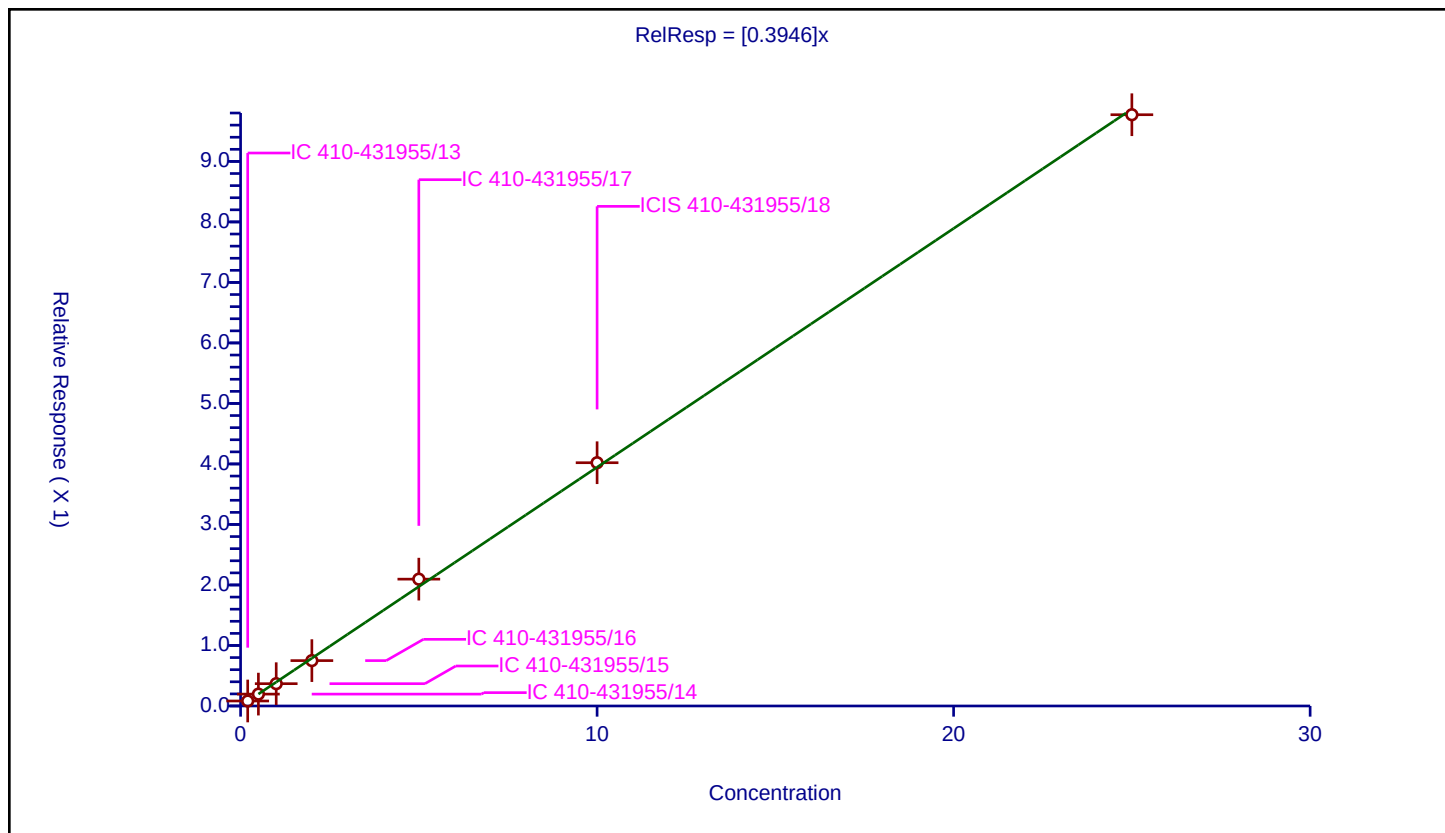
Curve Coefficients

Intercept: 0
 Slope: 0.3946

Error Coefficients

Standard Error: 623000
 Relative Standard Error: 4.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.082767	10.0	1303181.0	0.413834	Y
2	IC 410-431955/14	0.5	0.196313	10.0	1303431.0	0.392625	Y
3	IC 410-431955/15	1.0	0.368695	10.0	1309701.0	0.368695	Y
4	IC 410-431955/16	2.0	0.749708	10.0	1328211.0	0.374854	Y
5	IC 410-431955/17	5.0	2.096175	10.0	1333491.0	0.419235	Y
6	ICIS 410-431955/18	10.0	4.020342	10.0	1358954.0	0.402034	Y
7	IC 410-431955/19	25.0	9.771926	10.0	1426382.0	0.390877	Y



Calibration

/ 1,3-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

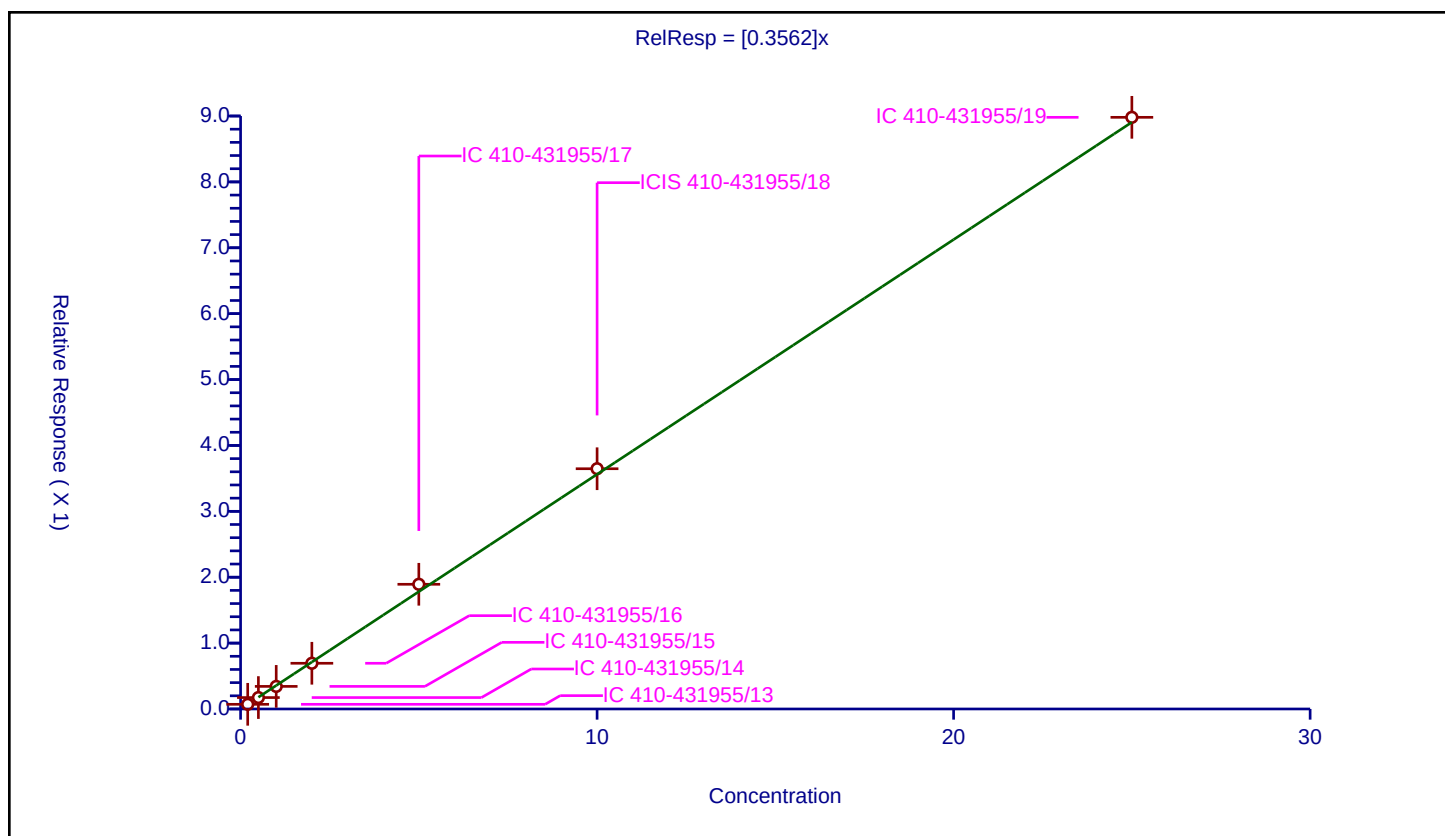
Curve Coefficients

Intercept: 0
 Slope: 0.3562

Error Coefficients

Standard Error: 572000
 Relative Standard Error: 3.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.070957	10.0	1303181.0	0.354786	Y
2	IC 410-431955/14	0.5	0.173281	10.0	1303431.0	0.346562	Y
3	IC 410-431955/15	1.0	0.342811	10.0	1309701.0	0.342811	Y
4	IC 410-431955/16	2.0	0.693918	10.0	1328211.0	0.346959	Y
5	IC 410-431955/17	5.0	1.892746	10.0	1333491.0	0.378549	Y
6	ICIS 410-431955/18	10.0	3.646665	10.0	1358954.0	0.364667	Y
7	IC 410-431955/19	25.0	8.980322	10.0	1426382.0	0.359213	Y



Calibration

/ 2-Hexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

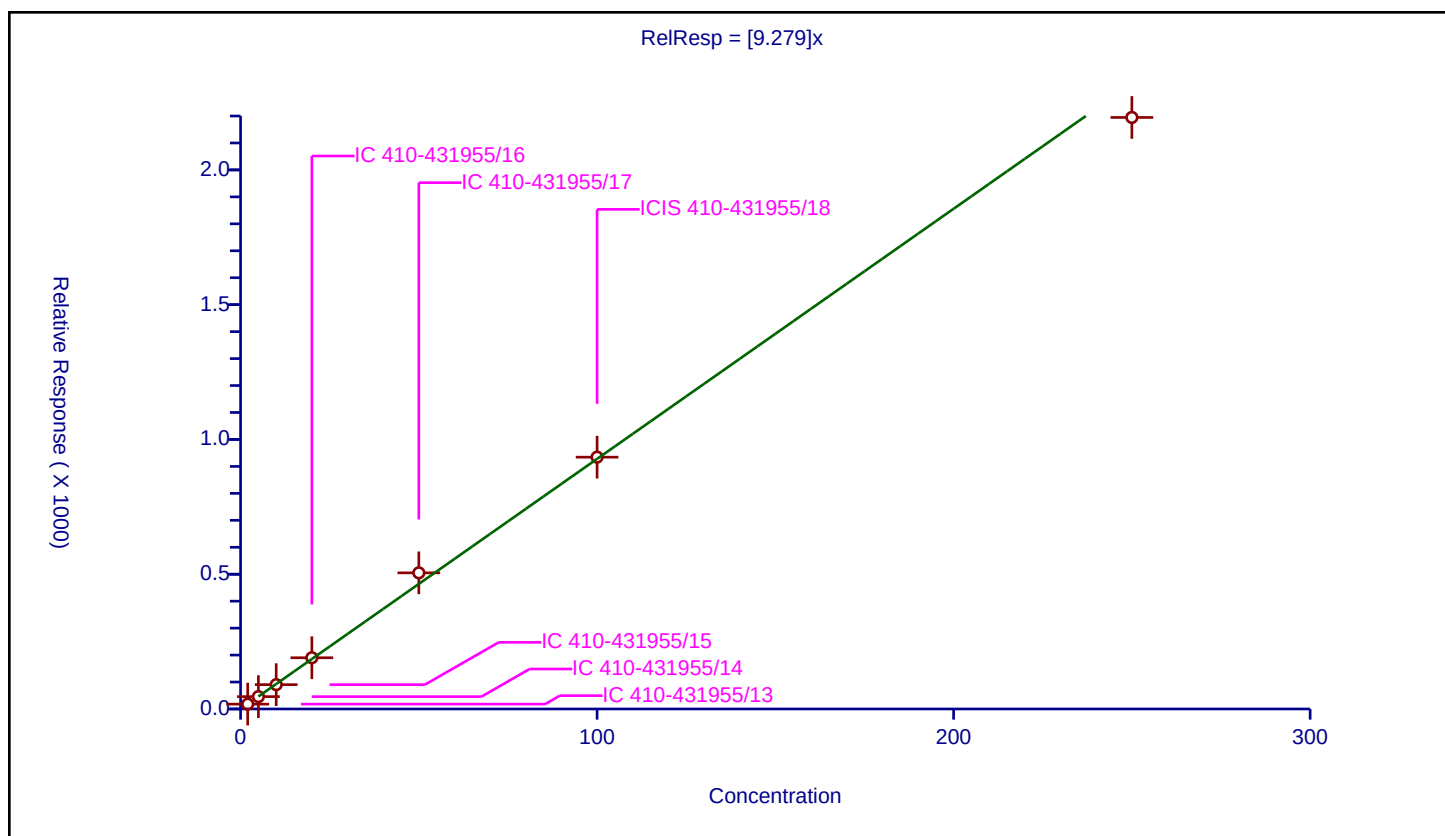
Curve Coefficients

Intercept: 0
Slope: 9.279

Error Coefficients

Standard Error: 1830000
Relative Standard Error: 4.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	2.0	18.062012	50.0	75501.0	9.031006	Y
2	IC 410-431955/14	5.0	45.830502	50.0	75057.0	9.1661	Y
3	IC 410-431955/15	10.0	90.26756	50.0	79384.0	9.026756	Y
4	IC 410-431955/16	20.0	190.13314	50.0	77137.0	9.506657	Y
5	IC 410-431955/17	50.0	505.110359	50.0	78879.0	10.102207	Y
6	ICIS 410-431955/18	100.0	934.324047	50.0	83963.0	9.34324	Y
7	IC 410-431955/19	250.0	2194.658252	50.0	93724.0	8.778633	Y



Calibration

/ Chlorodibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

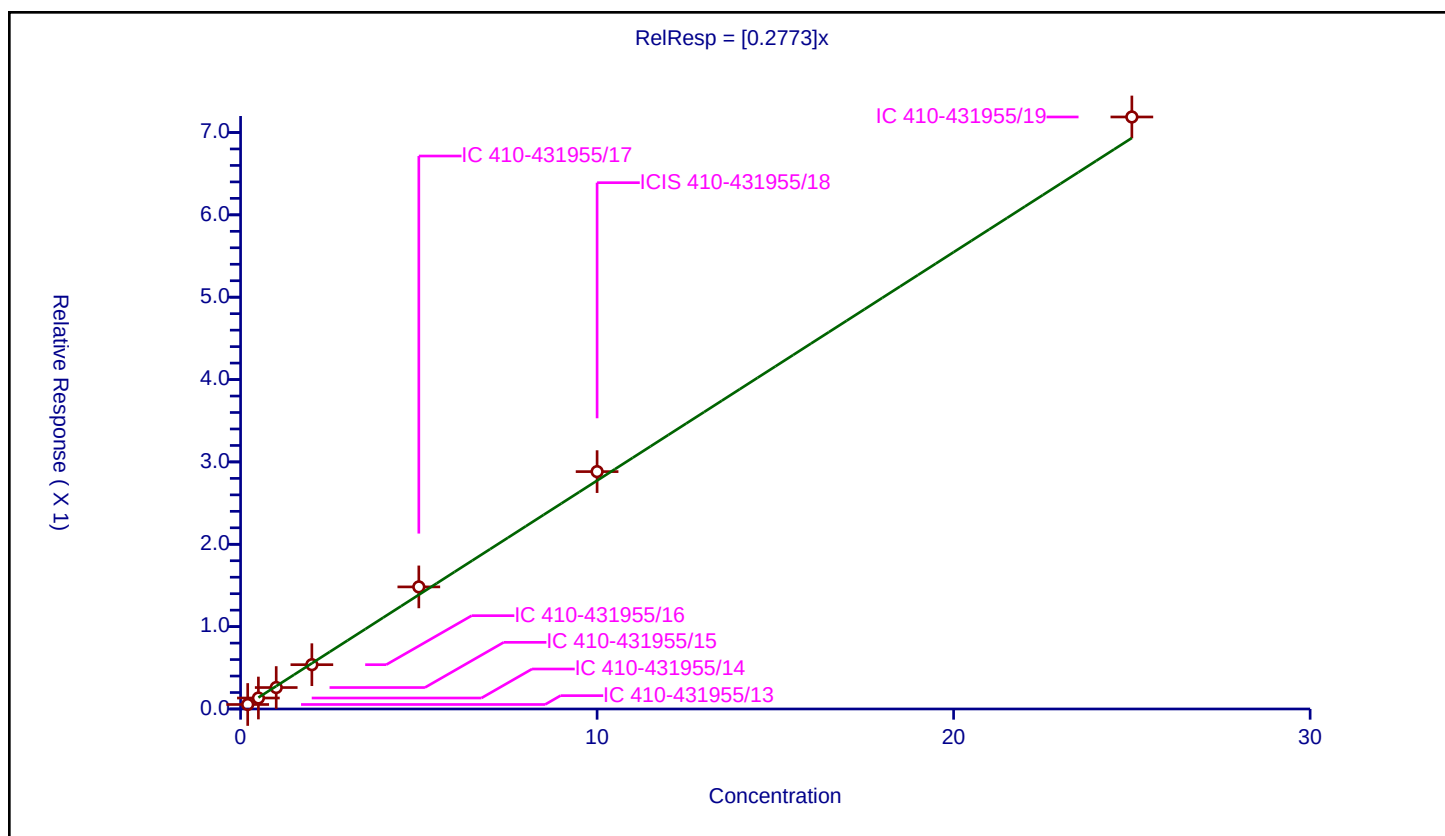
Curve Coefficients

Intercept: 0
Slope: 0.2773

Error Coefficients

Standard Error: 457000
Relative Standard Error: 4.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.054643	10.0	1303181.0	0.273216	Y
2	IC 410-431955/14	0.5	0.133218	10.0	1303431.0	0.266435	Y
3	IC 410-431955/15	1.0	0.260464	10.0	1309701.0	0.260464	Y
4	IC 410-431955/16	2.0	0.537889	10.0	1328211.0	0.268944	Y
5	IC 410-431955/17	5.0	1.482455	10.0	1333491.0	0.296491	Y
6	ICIS 410-431955/18	10.0	2.882305	10.0	1358954.0	0.288231	Y
7	IC 410-431955/19	25.0	7.188404	10.0	1426382.0	0.287536	Y



Calibration

/ Ethylene Dibromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

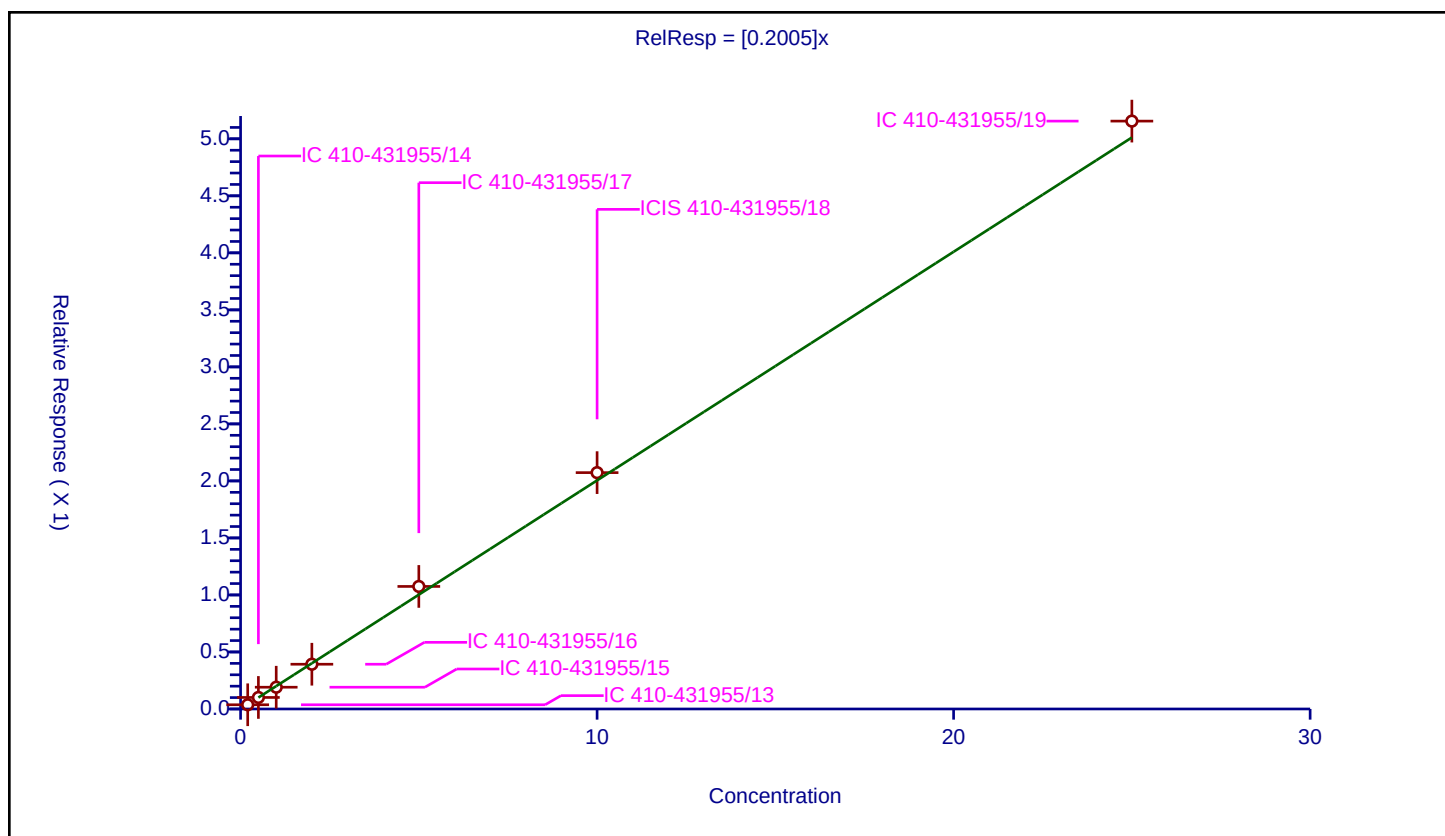
Curve Coefficients

Intercept: 0
Slope: 0.2005

Error Coefficients

Standard Error: 328000
Relative Standard Error: 5.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.037117	10.0	1303181.0	0.185584	Y
2	IC 410-431955/14	0.5	0.101064	10.0	1303431.0	0.202128	Y
3	IC 410-431955/15	1.0	0.190853	10.0	1309701.0	0.190853	Y
4	IC 410-431955/16	2.0	0.392536	10.0	1328211.0	0.196268	Y
5	IC 410-431955/17	5.0	1.074675	10.0	1333491.0	0.214935	Y
6	ICIS 410-431955/18	10.0	2.072646	10.0	1358954.0	0.207265	Y
7	IC 410-431955/19	25.0	5.1554	10.0	1426382.0	0.206216	Y



Calibration

/ 1-Chlorohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

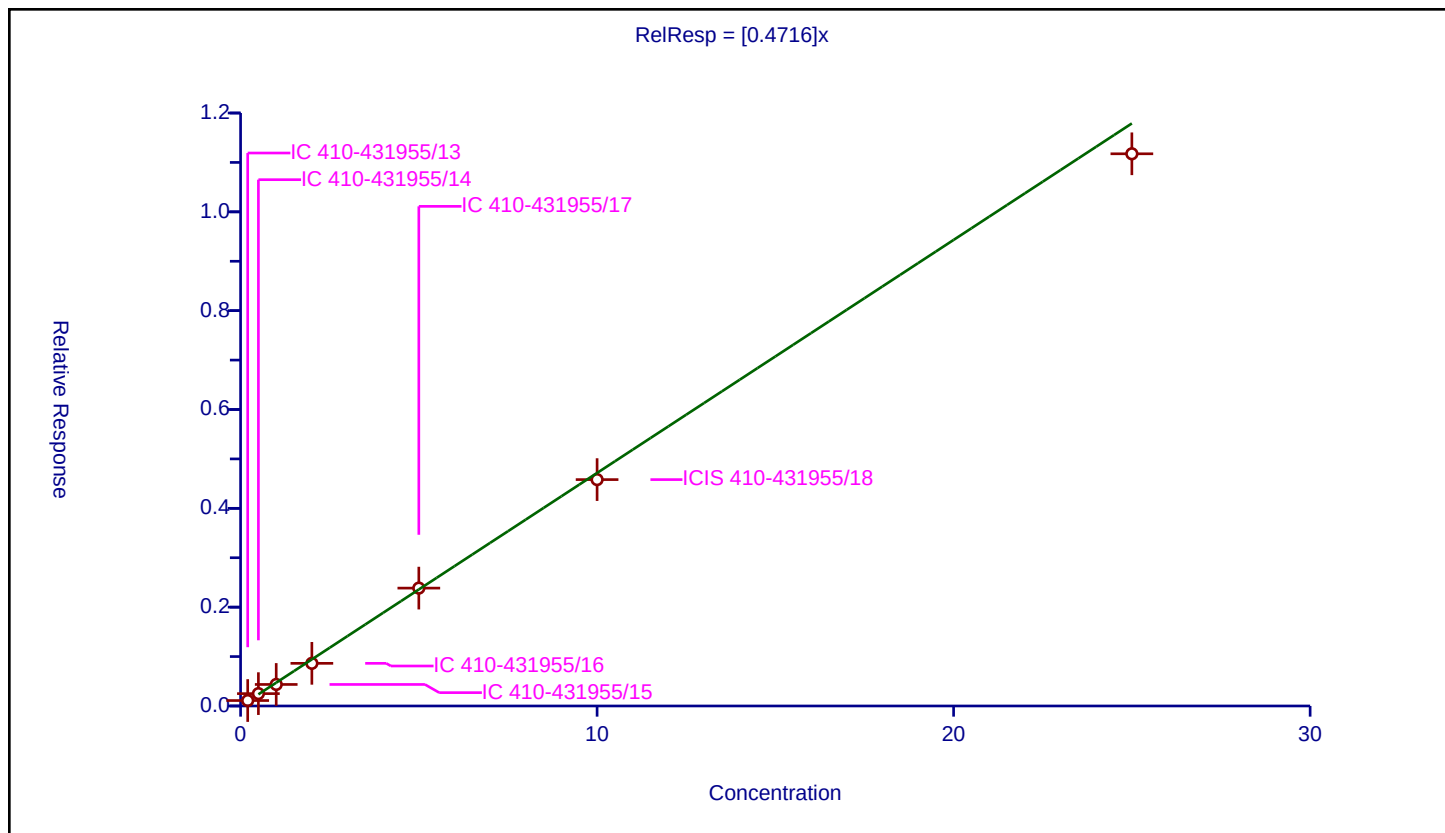
Curve Coefficients

Intercept: 0
Slope: 0.4716

Error Coefficients

Standard Error: 713000
Relative Standard Error: 9.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.110299	10.0	1303181.0	0.551497	Y
2	IC 410-431955/14	0.5	0.250086	10.0	1303431.0	0.500172	Y
3	IC 410-431955/15	1.0	0.435557	10.0	1309701.0	0.435557	Y
4	IC 410-431955/16	2.0	0.863274	10.0	1328211.0	0.431637	Y
5	IC 410-431955/17	5.0	2.38552	10.0	1333491.0	0.477104	Y
6	ICIS 410-431955/18	10.0	4.581251	10.0	1358954.0	0.458125	Y
7	IC 410-431955/19	25.0	11.174812	10.0	1426382.0	0.446992	Y



Calibration

/ Chlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

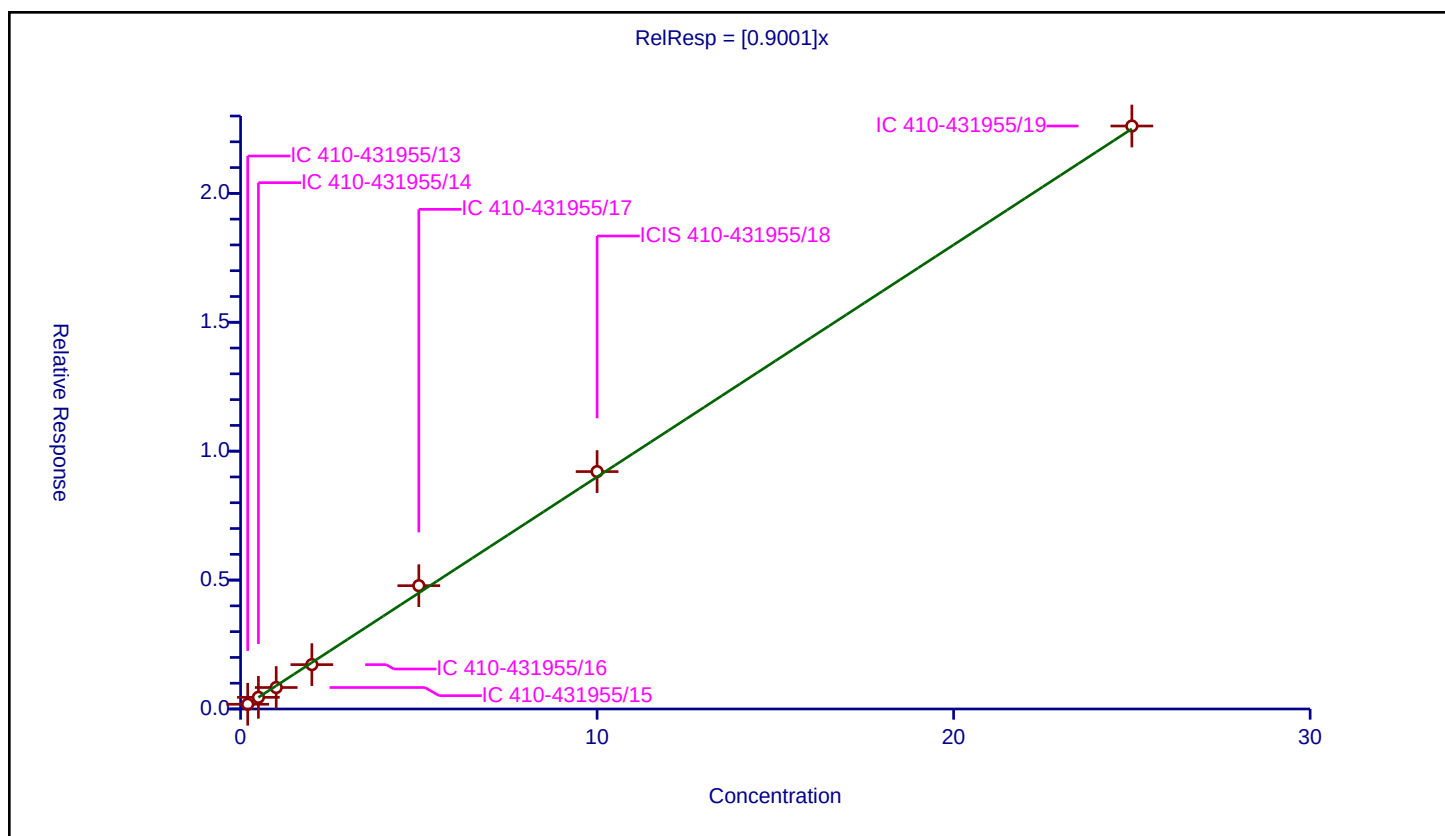
Curve Coefficients

Intercept: 0
 Slope: 0.9001

Error Coefficients

Standard Error: 1440000
 Relative Standard Error: 4.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.183942	10.0	1303181.0	0.919711	Y
2	IC 410-431955/14	0.5	0.452652	10.0	1303431.0	0.905303	Y
3	IC 410-431955/15	1.0	0.833412	10.0	1309701.0	0.833412	Y
4	IC 410-431955/16	2.0	1.720849	10.0	1328211.0	0.860424	Y
5	IC 410-431955/17	5.0	4.782897	10.0	1333491.0	0.956579	Y
6	ICIS 410-431955/18	10.0	9.208479	10.0	1358954.0	0.920848	Y
7	IC 410-431955/19	25.0	22.612035	10.0	1426382.0	0.904481	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

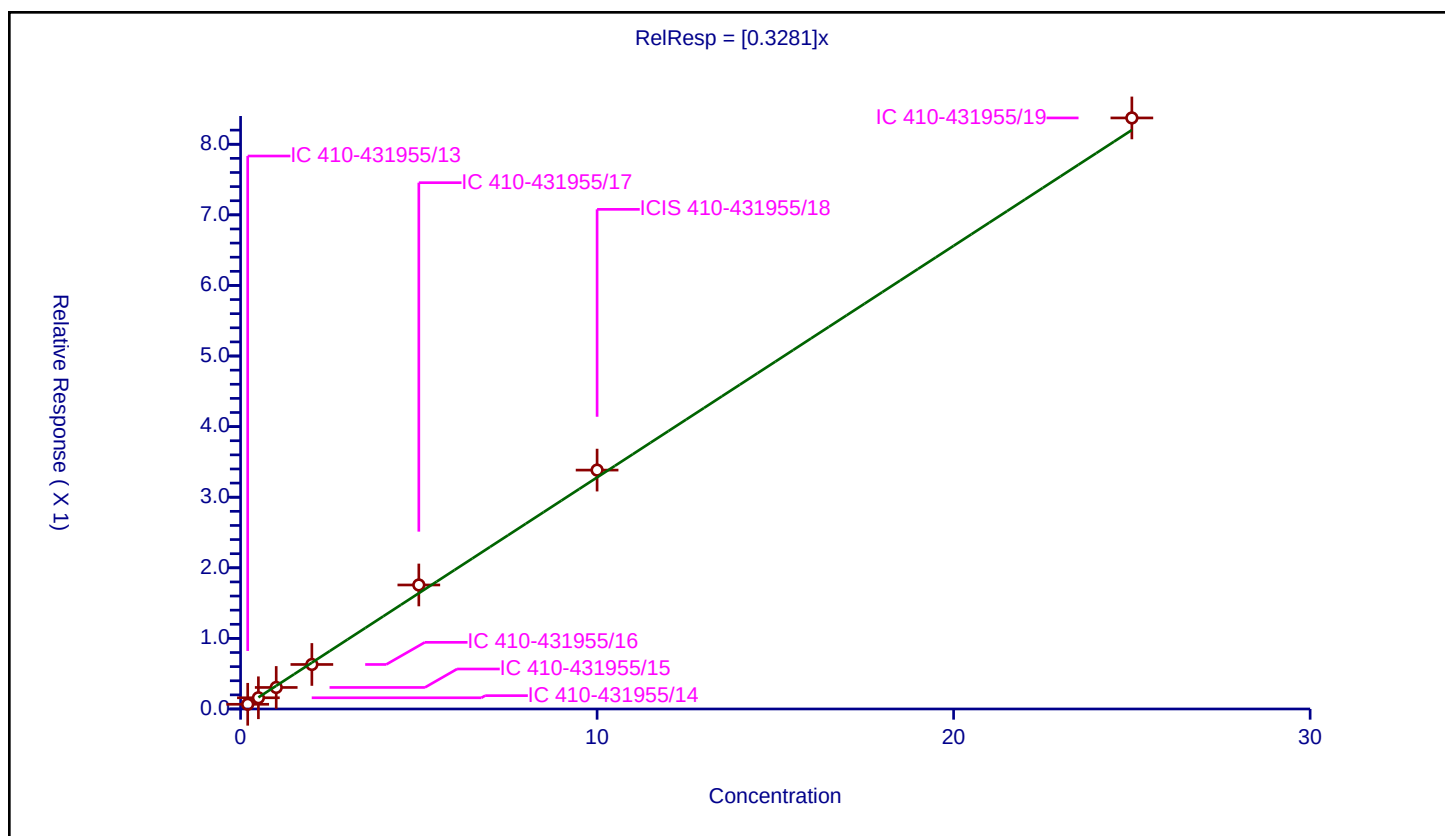
Curve Coefficients

Intercept: 0
Slope: 0.3281

Error Coefficients

Standard Error: 533000
Relative Standard Error: 4.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.066752	10.0	1303181.0	0.33376	Y
2	IC 410-431955/14	0.5	0.158758	10.0	1303431.0	0.317516	Y
3	IC 410-431955/15	1.0	0.305207	10.0	1309701.0	0.305207	Y
4	IC 410-431955/16	2.0	0.630487	10.0	1328211.0	0.315244	Y
5	IC 410-431955/17	5.0	1.756817	10.0	1333491.0	0.351363	Y
6	ICIS 410-431955/18	10.0	3.38425	10.0	1358954.0	0.338425	Y
7	IC 410-431955/19	25.0	8.372813	10.0	1426382.0	0.334913	Y



Calibration

/ Ethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

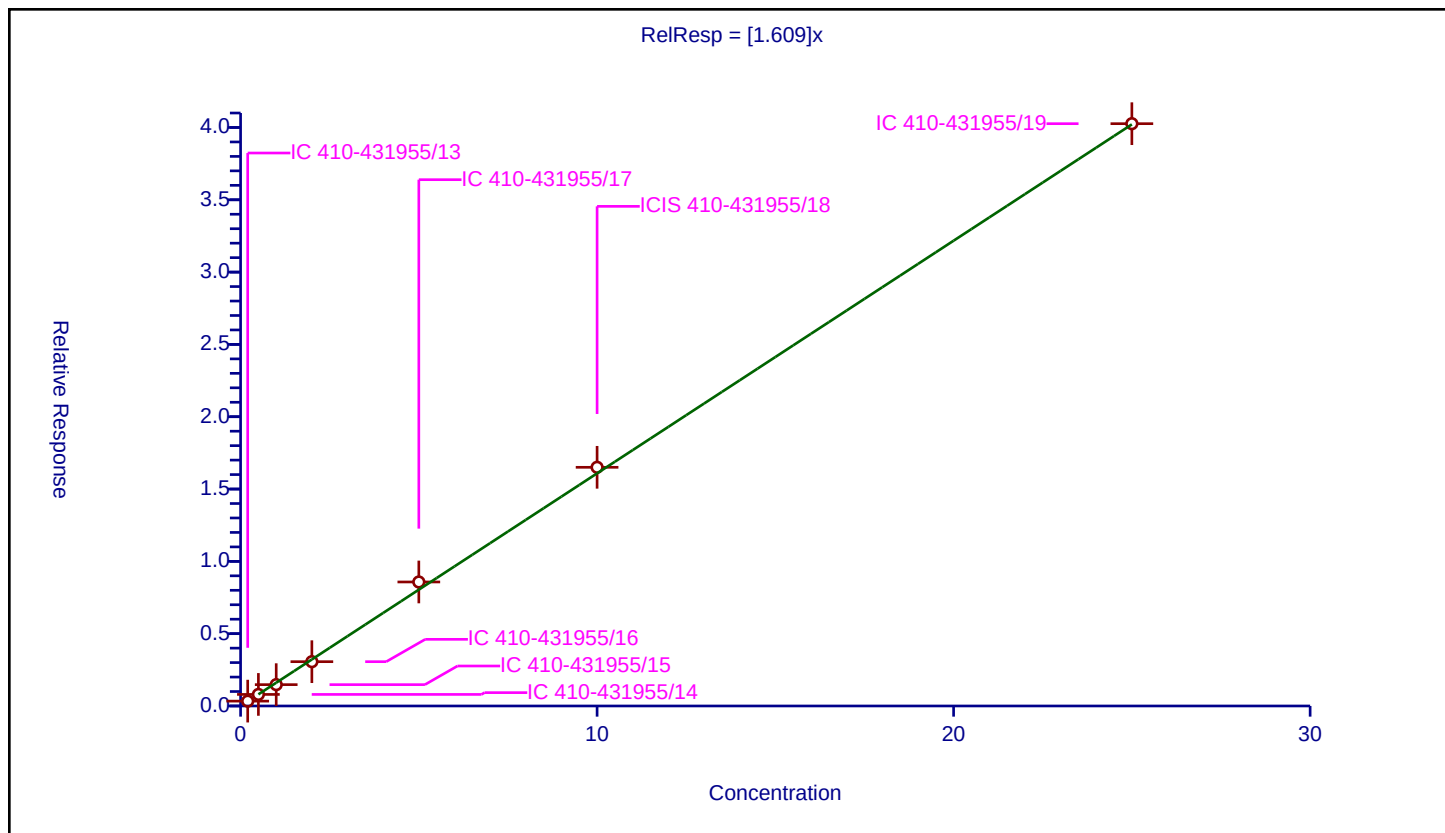
Curve Coefficients

Intercept: 0
Slope: 1.609

Error Coefficients

Standard Error: 2570000
Relative Standard Error: 5.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.335916	10.0	1303181.0	1.679582	Y
2	IC 410-431955/14	0.5	0.798846	10.0	1303431.0	1.597691	Y
3	IC 410-431955/15	1.0	1.475383	10.0	1309701.0	1.475383	Y
4	IC 410-431955/16	2.0	3.06303	10.0	1328211.0	1.531515	Y
5	IC 410-431955/17	5.0	8.574501	10.0	1333491.0	1.7149	Y
6	ICIS 410-431955/18	10.0	16.503598	10.0	1358954.0	1.65036	Y
7	IC 410-431955/19	25.0	40.263113	10.0	1426382.0	1.610525	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

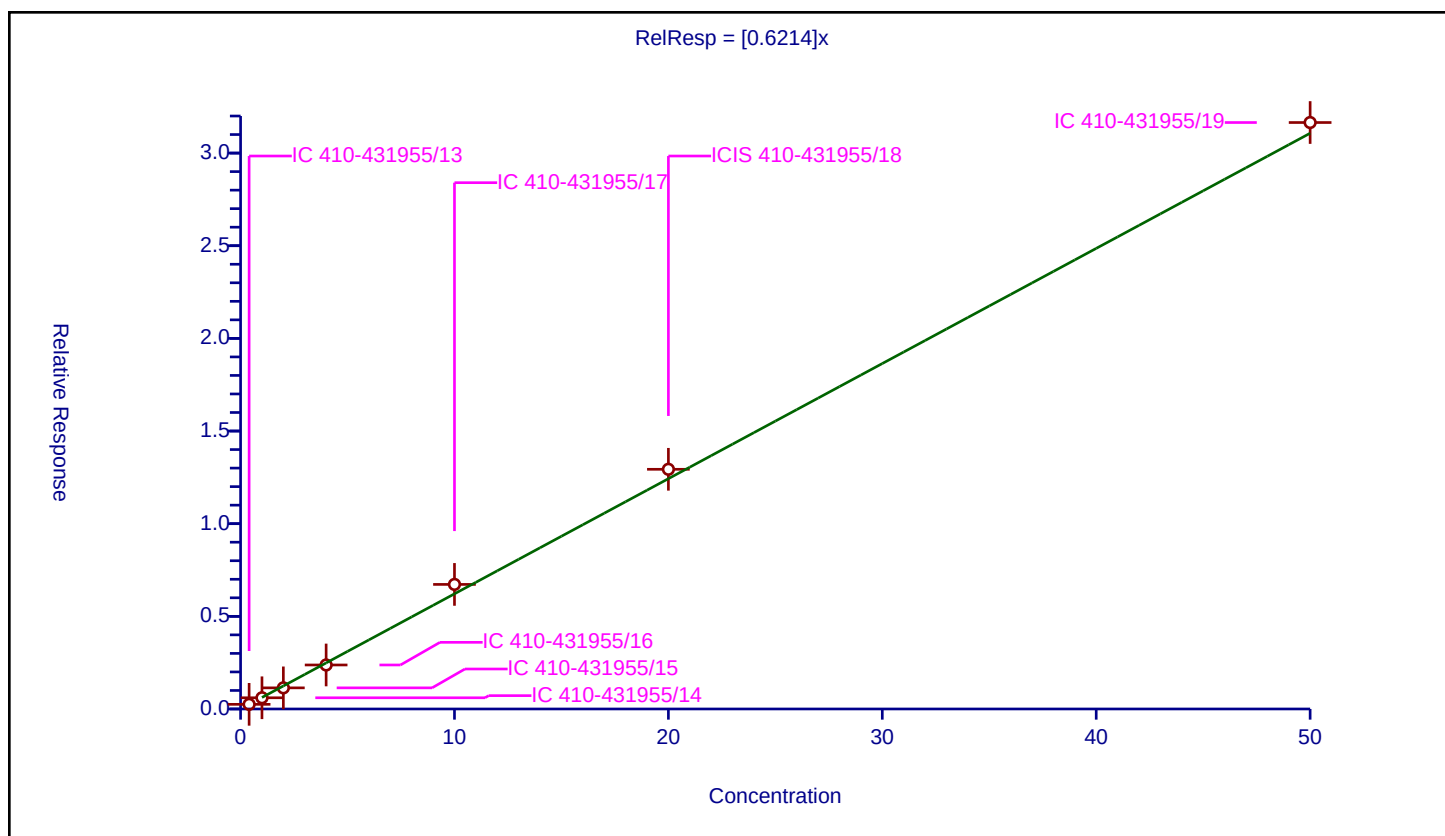
Curve Coefficients

Intercept: 0
 Slope: 0.6214

Error Coefficients

Standard Error: 2020000
 Relative Standard Error: 5.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.4	0.25163	10.0	1303181.0	0.629076	Y
2	IC 410-431955/14	1.0	0.604758	10.0	1303431.0	0.604758	Y
3	IC 410-431955/15	2.0	1.14039	10.0	1309701.0	0.570195	Y
4	IC 410-431955/16	4.0	2.374931	10.0	1328211.0	0.593733	Y
5	IC 410-431955/17	10.0	6.722918	10.0	1333491.0	0.672292	Y
6	ICIS 410-431955/18	20.0	12.93564	10.0	1358954.0	0.646782	Y
7	IC 410-431955/19	50.0	31.648184	10.0	1426382.0	0.632964	Y



Calibration

/ o-Xylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

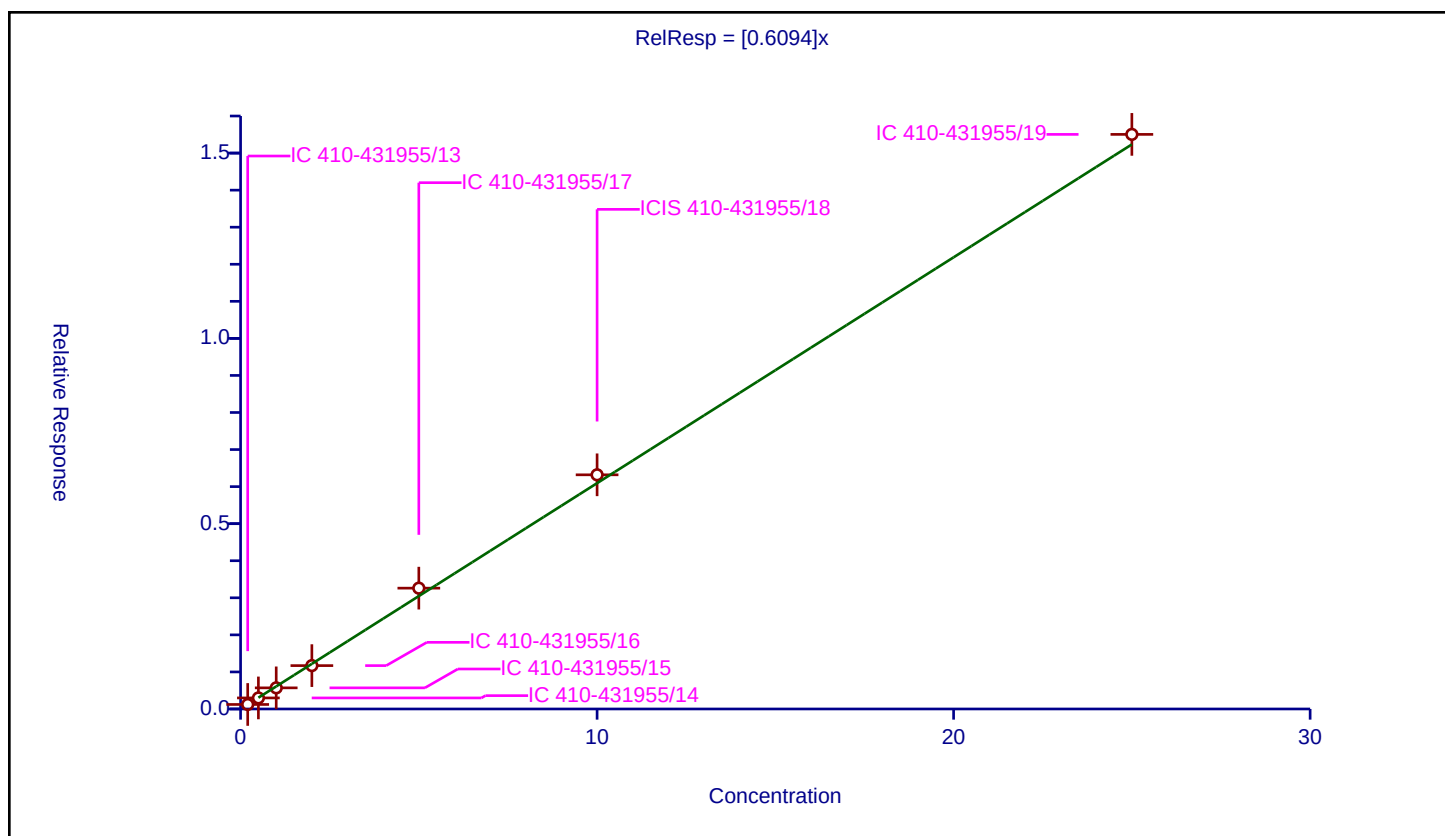
Curve Coefficients

Intercept: 0
Slope: 0.6094

Error Coefficients

Standard Error: 987000
Relative Standard Error: 4.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.121909	10.0	1303181.0	0.609547	Y
2	IC 410-431955/14	0.5	0.298267	10.0	1303431.0	0.596533	Y
3	IC 410-431955/15	1.0	0.570122	10.0	1309701.0	0.570122	Y
4	IC 410-431955/16	2.0	1.170492	10.0	1328211.0	0.585246	Y
5	IC 410-431955/17	5.0	3.260224	10.0	1333491.0	0.652045	Y
6	ICIS 410-431955/18	10.0	6.318426	10.0	1358954.0	0.631843	Y
7	IC 410-431955/19	25.0	15.504486	10.0	1426382.0	0.620179	Y



Calibration

/ Styrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

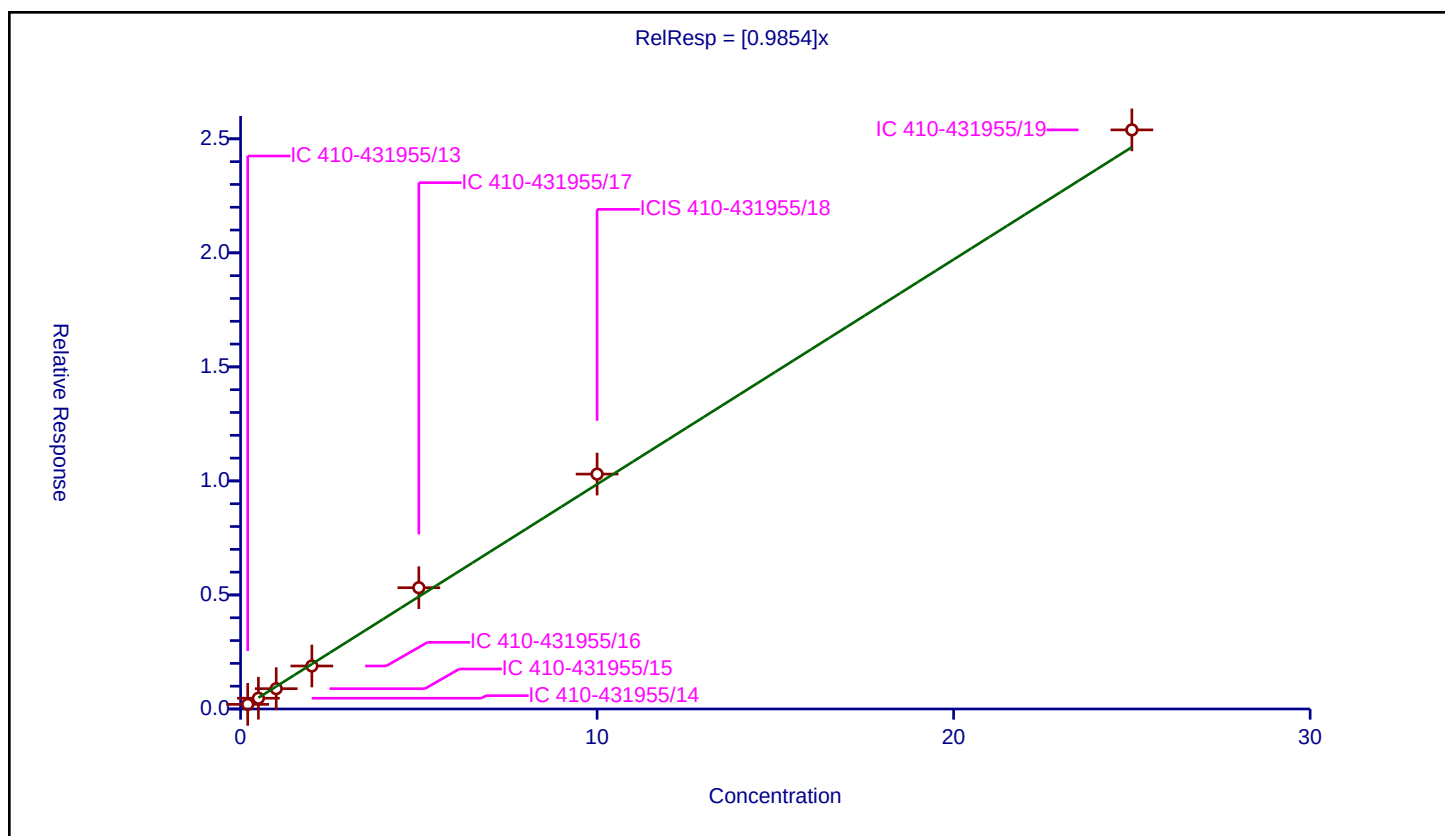
Curve Coefficients

Intercept: 0
Slope: 0.9854

Error Coefficients

Standard Error: 1620000
Relative Standard Error: 6.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.202451	10.0	1303181.0	1.012254	Y
2	IC 410-431955/14	0.5	0.471272	10.0	1303431.0	0.942543	Y
3	IC 410-431955/15	1.0	0.890761	10.0	1309701.0	0.890761	Y
4	IC 410-431955/16	2.0	1.885747	10.0	1328211.0	0.942874	Y
5	IC 410-431955/17	5.0	5.317749	10.0	1333491.0	1.06355	Y
6	ICIS 410-431955/18	10.0	10.299157	10.0	1358954.0	1.029916	Y
7	IC 410-431955/19	25.0	25.39237	10.0	1426382.0	1.015695	Y



Calibration

/ Bromoform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

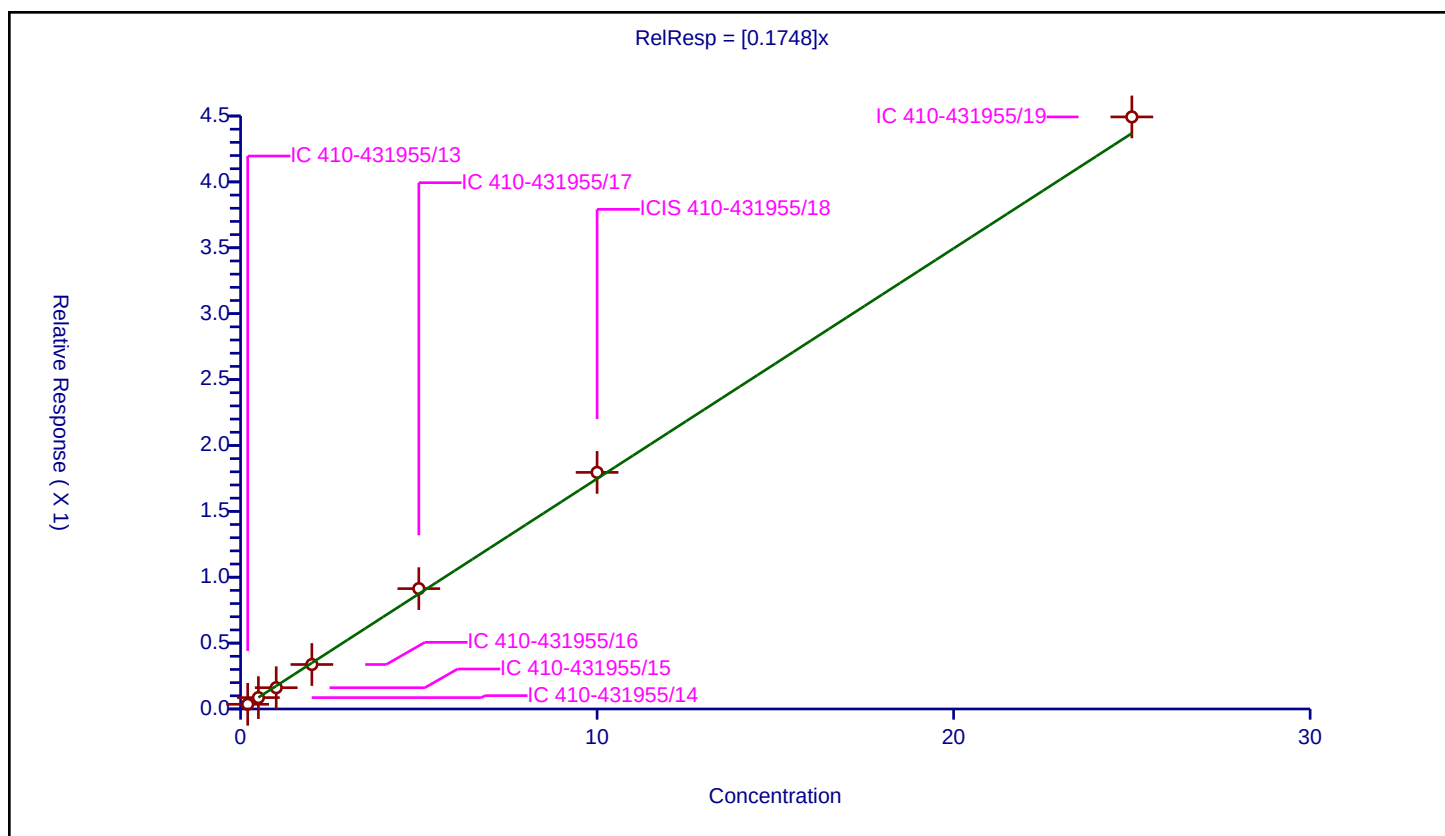
Curve Coefficients

Intercept: 0
Slope: 0.1748

Error Coefficients

Standard Error: 285000
Relative Standard Error: 4.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.035705	10.0	1303181.0	0.178525	Y
2	IC 410-431955/14	0.5	0.086219	10.0	1303431.0	0.172437	Y
3	IC 410-431955/15	1.0	0.16151	10.0	1309701.0	0.16151	Y
4	IC 410-431955/16	2.0	0.337665	10.0	1328211.0	0.168832	Y
5	IC 410-431955/17	5.0	0.913452	10.0	1333491.0	0.18269	Y
6	ICIS 410-431955/18	10.0	1.795462	10.0	1358954.0	0.179546	Y
7	IC 410-431955/19	25.0	4.493081	10.0	1426382.0	0.179723	Y



Calibration

/ Isopropylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

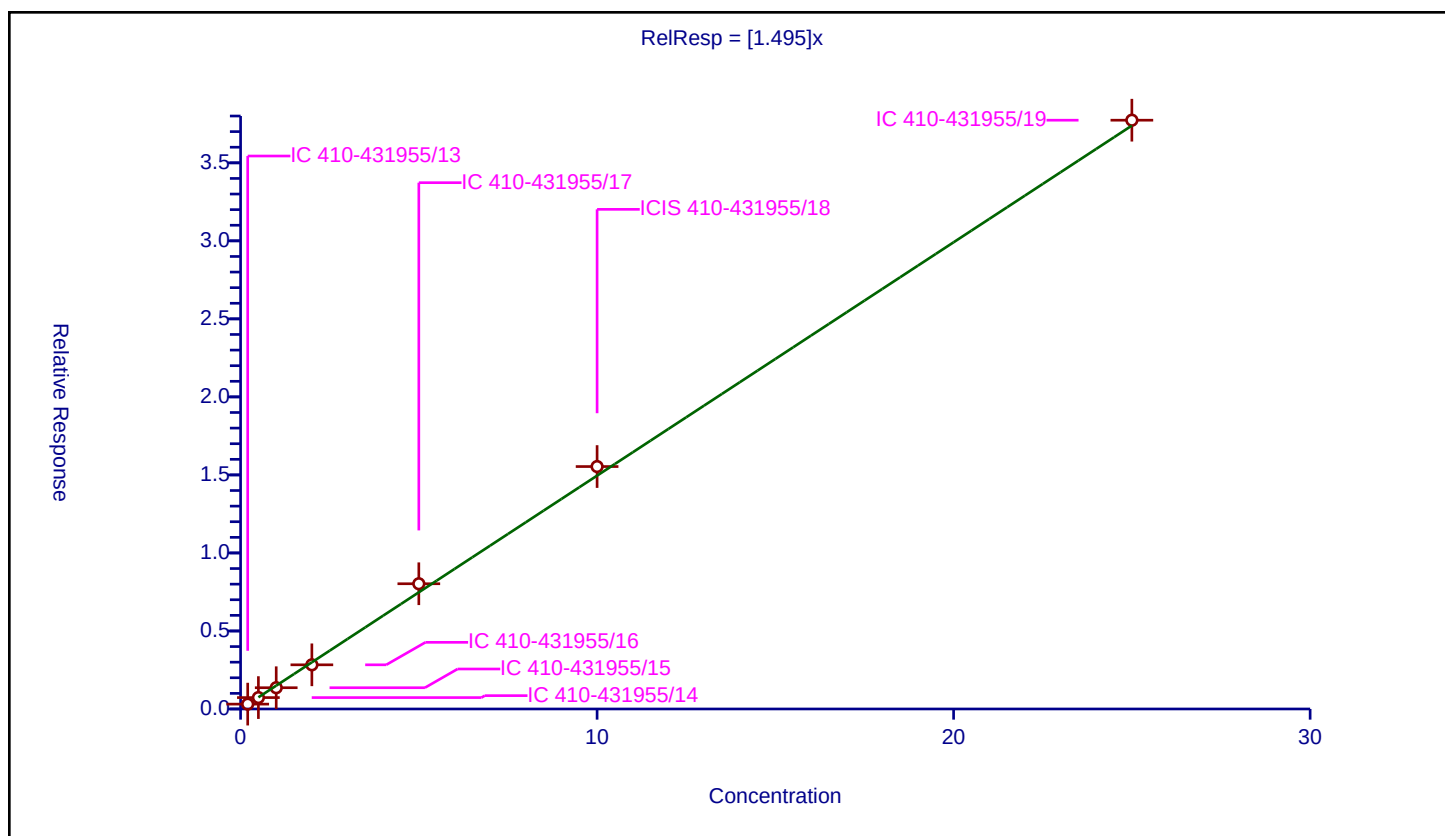
Curve Coefficients

Intercept: 0
 Slope: 1.495

Error Coefficients

Standard Error: 2410000
 Relative Standard Error: 5.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.311722	10.0	1303181.0	1.558609	Y
2	IC 410-431955/14	0.5	0.731255	10.0	1303431.0	1.462509	Y
3	IC 410-431955/15	1.0	1.363647	10.0	1309701.0	1.363647	Y
4	IC 410-431955/16	2.0	2.830537	10.0	1328211.0	1.415268	Y
5	IC 410-431955/17	5.0	8.025851	10.0	1333491.0	1.60517	Y
6	ICIS 410-431955/18	10.0	15.53592	10.0	1358954.0	1.553592	Y
7	IC 410-431955/19	25.0	37.732515	10.0	1426382.0	1.509301	Y



Calibration

/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

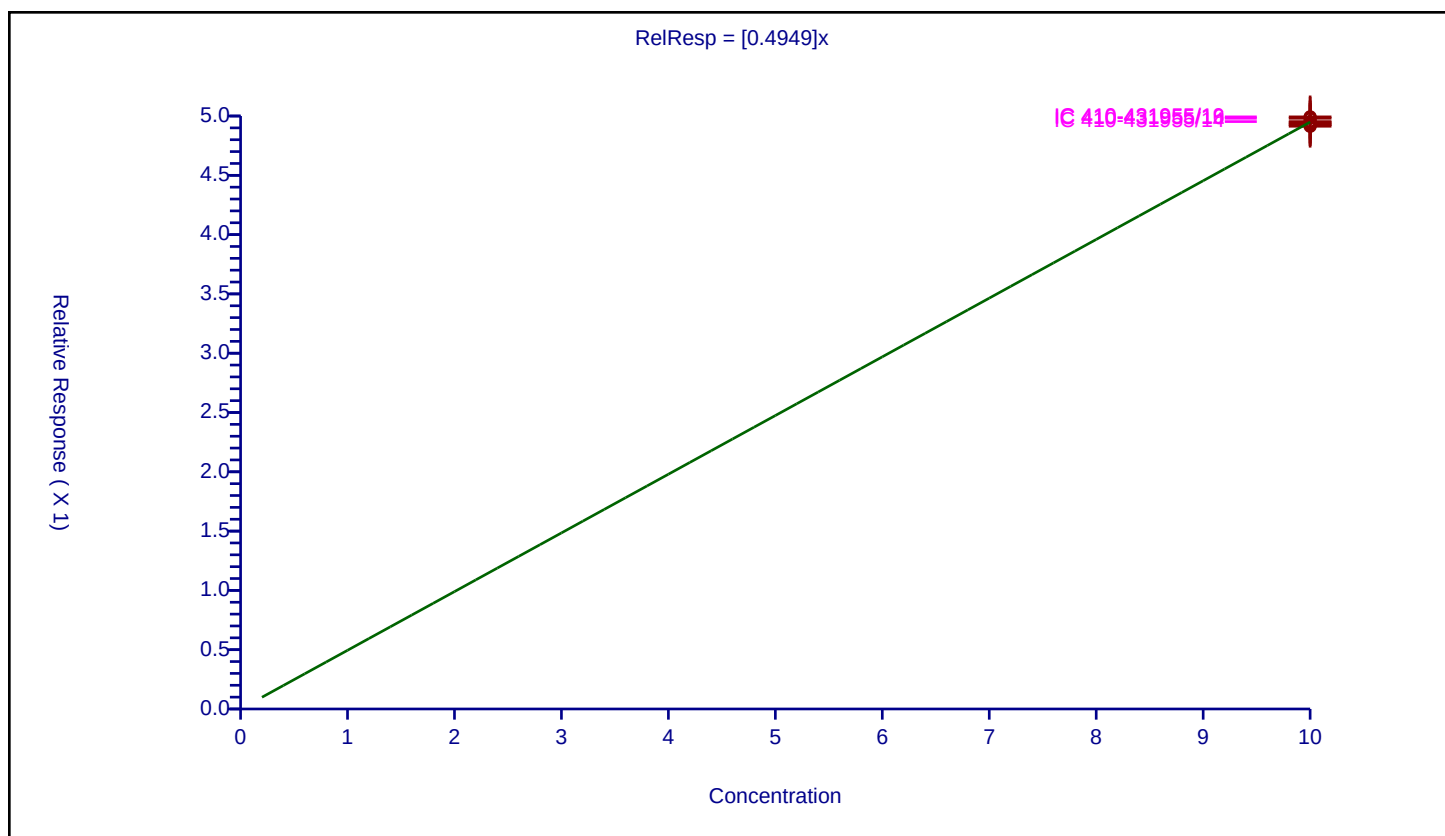
Curve Coefficients

Intercept: 0
 Slope: 0.4949

Error Coefficients

Standard Error: 716000
 Relative Standard Error: 0.6
 Correlation Coefficient: 0.00000000000000000000
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	10.0	4.913615	10.0	1303181.0	0.491362	Y
2	IC 410-431955/14	10.0	4.953097	10.0	1303431.0	0.49531	Y
3	IC 410-431955/15	10.0	4.926491	10.0	1309701.0	0.492649	Y
4	IC 410-431955/16	10.0	4.980797	10.0	1328211.0	0.49808	Y
5	IC 410-431955/17	10.0	4.945725	10.0	1333491.0	0.494573	Y
6	ICIS 410-431955/18	10.0	4.930807	10.0	1358954.0	0.493081	Y
7	IC 410-431955/19	10.0	4.9928	10.0	1426382.0	0.49928	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

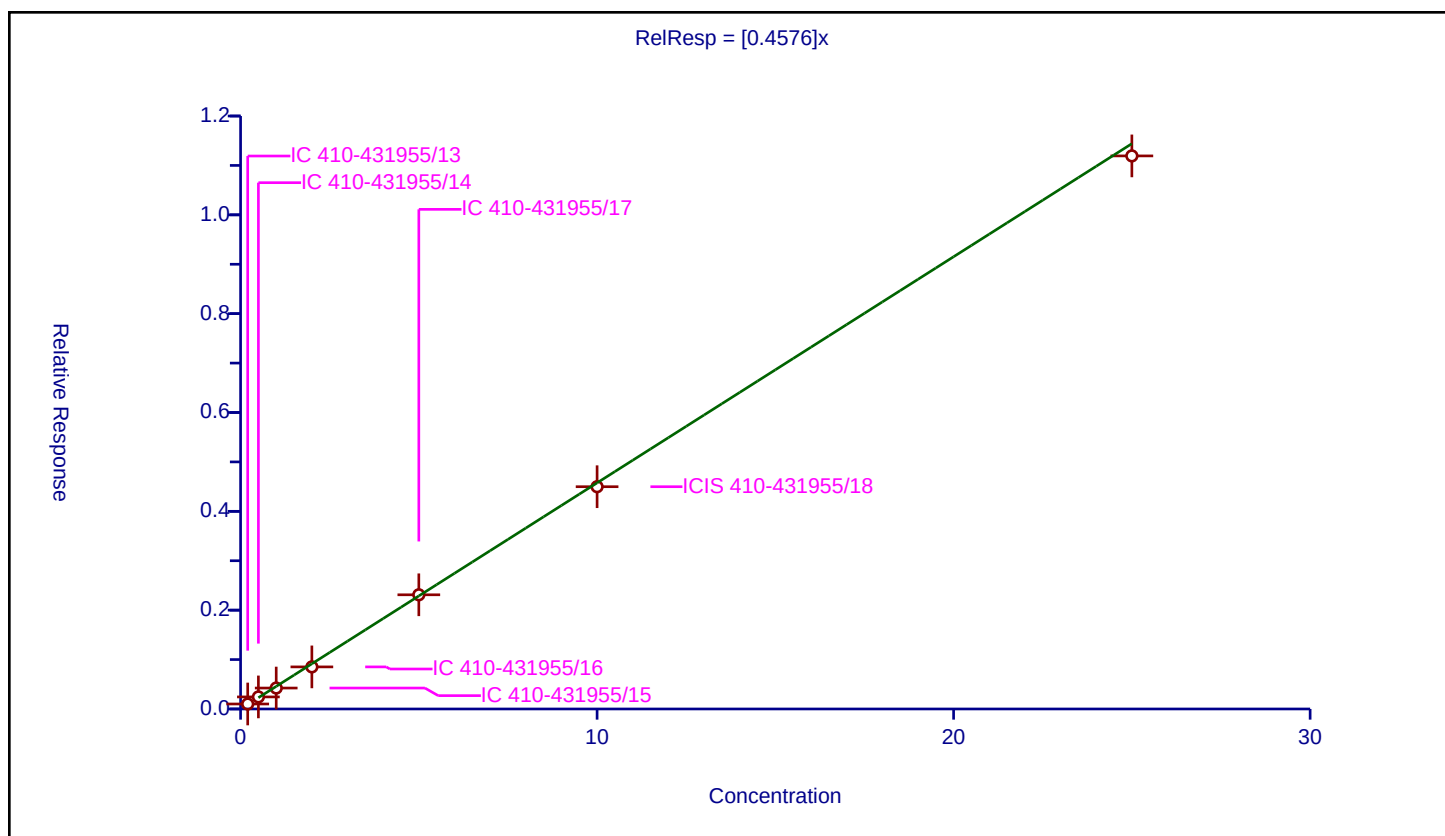
Curve Coefficients

Intercept: 0
Slope: 0.4576

Error Coefficients

Standard Error: 405000
Relative Standard Error: 6.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.101139	10.0	720593.0	0.505695	Y
2	IC 410-431955/14	0.5	0.244084	10.0	730485.0	0.488169	Y
3	IC 410-431955/15	1.0	0.423796	10.0	728345.0	0.423796	Y
4	IC 410-431955/16	2.0	0.851643	10.0	755516.0	0.425822	Y
5	IC 410-431955/17	5.0	2.31118	10.0	753615.0	0.462236	Y
6	ICIS 410-431955/18	10.0	4.498213	10.0	773685.0	0.449821	Y
7	IC 410-431955/19	25.0	11.192712	10.0	812275.0	0.447708	Y



Calibration

/ Bromobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

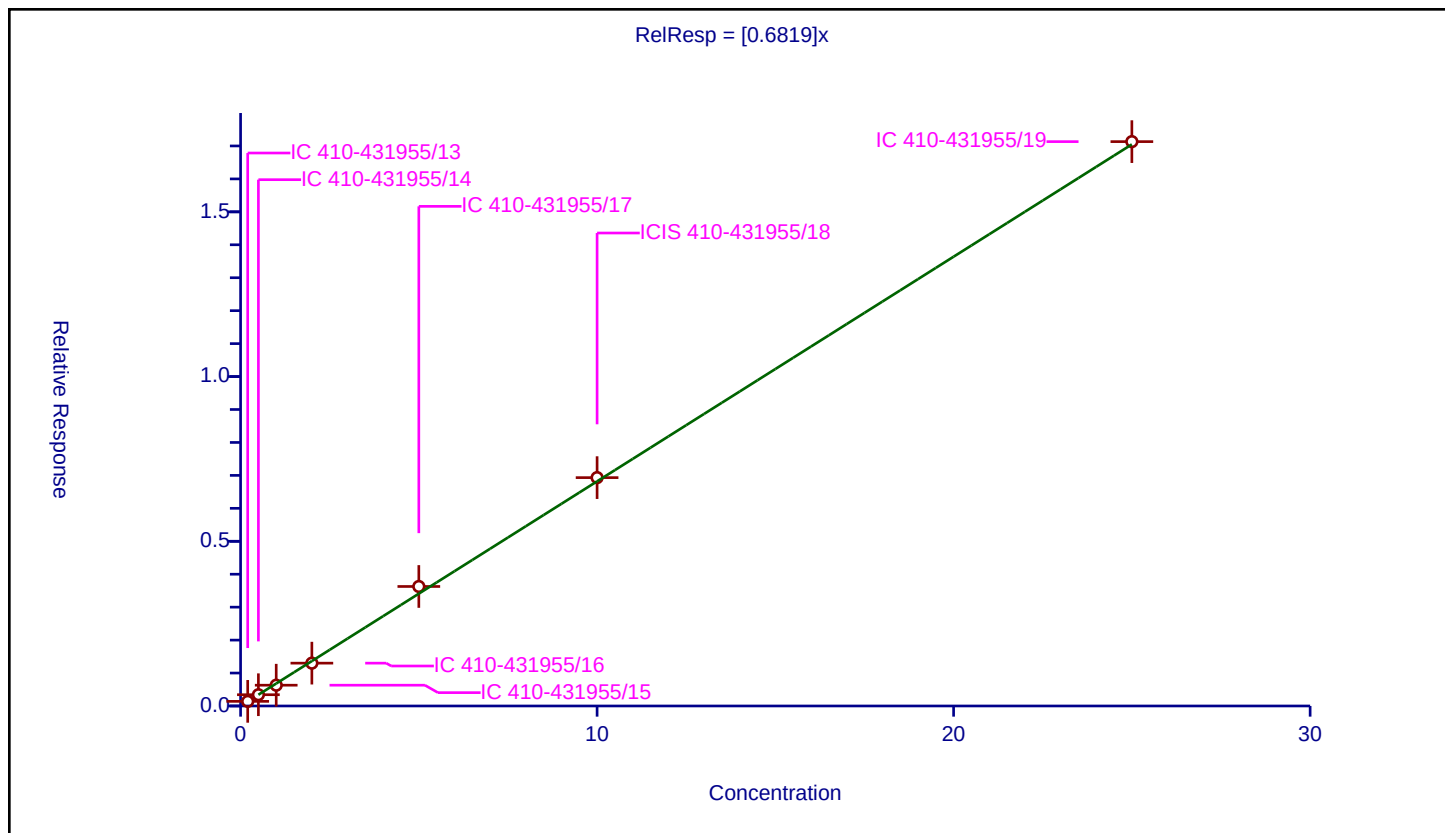
Curve Coefficients

Intercept: 0
 Slope: 0.6819

Error Coefficients

Standard Error: 621000
 Relative Standard Error: 4.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.140815	10.0	720593.0	0.704073	Y
2	IC 410-431955/14	0.5	0.341937	10.0	730485.0	0.683874	Y
3	IC 410-431955/15	1.0	0.631116	10.0	728345.0	0.631116	Y
4	IC 410-431955/16	2.0	1.300555	10.0	755516.0	0.650277	Y
5	IC 410-431955/17	5.0	3.628046	10.0	753615.0	0.725609	Y
6	ICIS 410-431955/18	10.0	6.932253	10.0	773685.0	0.693225	Y
7	IC 410-431955/19	25.0	17.13171	10.0	812275.0	0.685268	Y



Calibration

/ trans-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

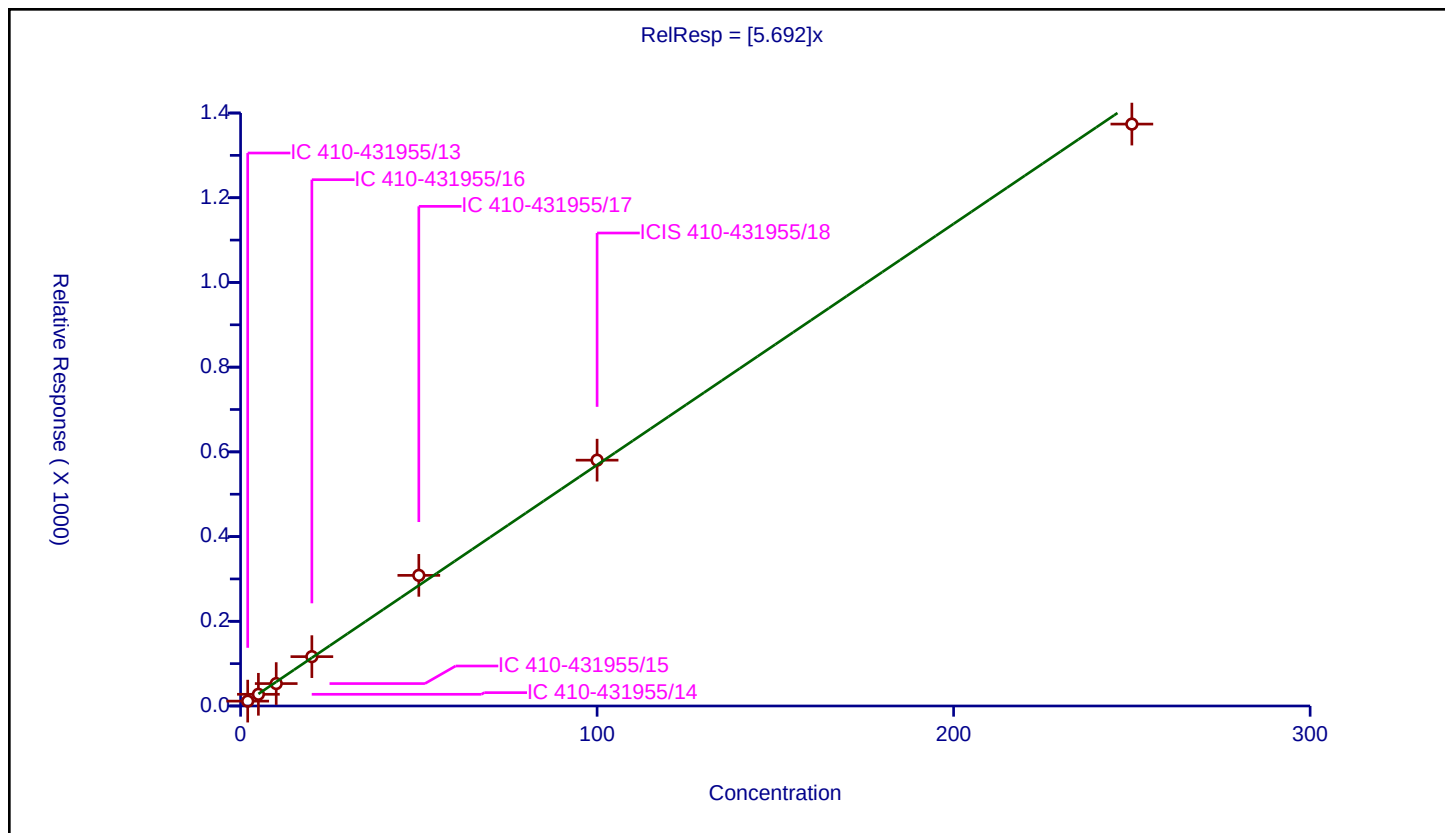
Curve Coefficients

Intercept: 0
Slope: 5.692

Error Coefficients

Standard Error: 1140000
Relative Standard Error: 5.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	2.0	11.47998	50.0	75501.0	5.73999	Y
2	IC 410-431955/14	5.0	27.585702	50.0	75057.0	5.51714	Y
3	IC 410-431955/15	10.0	52.914945	50.0	79384.0	5.291495	Y
4	IC 410-431955/16	20.0	116.53357	50.0	77137.0	5.826679	Y
5	IC 410-431955/17	50.0	308.404011	50.0	78879.0	6.16808	Y
6	ICIS 410-431955/18	100.0	580.41161	50.0	83963.0	5.804116	Y
7	IC 410-431955/19	250.0	1373.85675	50.0	93724.0	5.495427	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

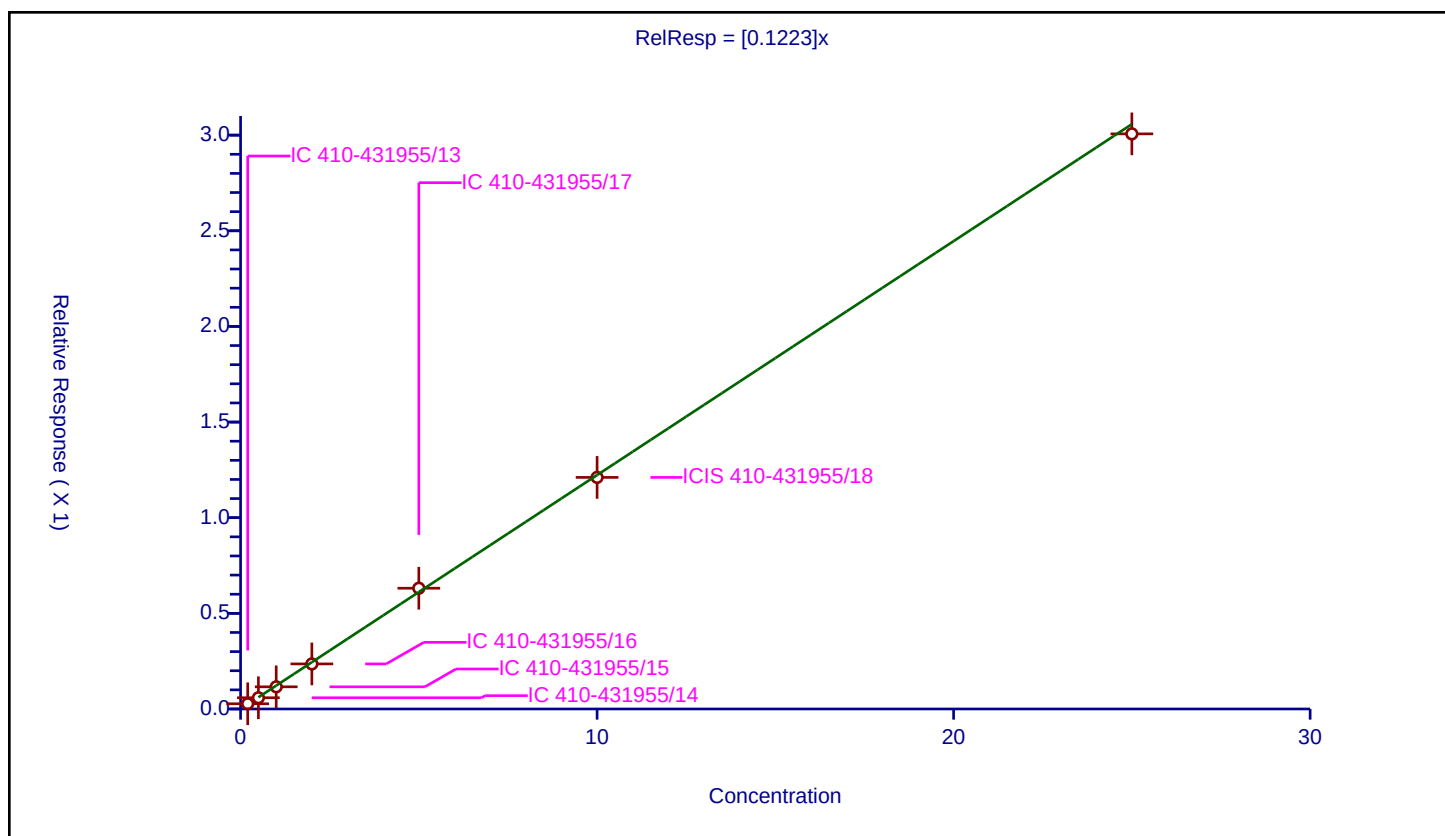
Curve Coefficients

Intercept: 0
Slope: 0.1223

Error Coefficients

Standard Error: 109000
Relative Standard Error: 6.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.027422	10.0	720593.0	0.137109	Y
2	IC 410-431955/14	0.5	0.058797	10.0	730485.0	0.117593	Y
3	IC 410-431955/15	1.0	0.115934	10.0	728345.0	0.115934	Y
4	IC 410-431955/16	2.0	0.23568	10.0	755516.0	0.11784	Y
5	IC 410-431955/17	5.0	0.631251	10.0	753615.0	0.12625	Y
6	ICIS 410-431955/18	10.0	1.210751	10.0	773685.0	0.121075	Y
7	IC 410-431955/19	25.0	3.006691	10.0	812275.0	0.120268	Y



Calibration

/ N-Propylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

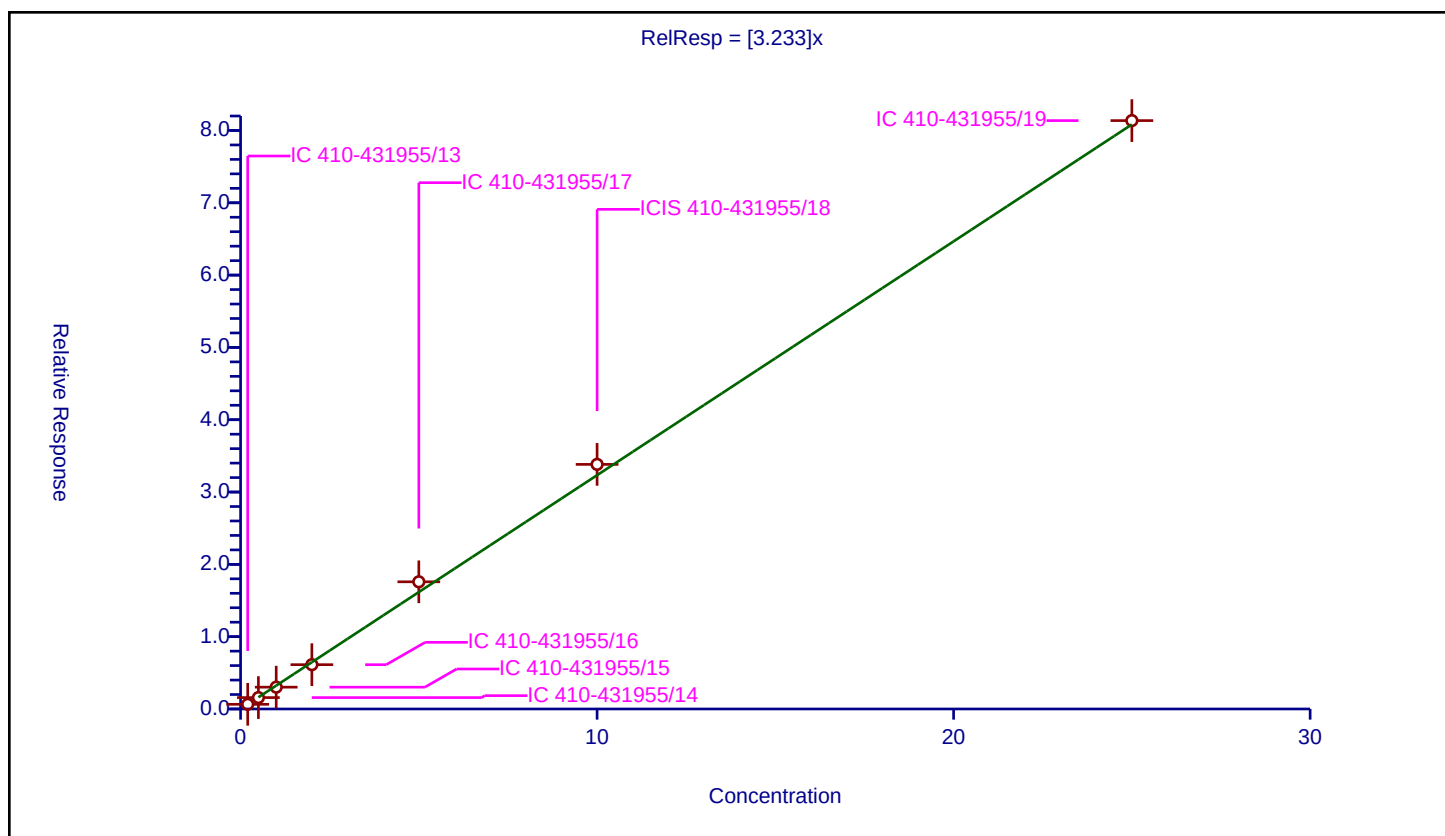
Curve Coefficients

Intercept: 0
Slope: 3.233

Error Coefficients

Standard Error: 2960000
Relative Standard Error: 5.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.648063	10.0	720593.0	3.240317	Y
2	IC 410-431955/14	0.5	1.577363	10.0	730485.0	3.154726	Y
3	IC 410-431955/15	1.0	3.018583	10.0	728345.0	3.018583	Y
4	IC 410-431955/16	2.0	6.128553	10.0	755516.0	3.064277	Y
5	IC 410-431955/17	5.0	17.589167	10.0	753615.0	3.517833	Y
6	ICIS 410-431955/18	10.0	33.825446	10.0	773685.0	3.382545	Y
7	IC 410-431955/19	25.0	81.367456	10.0	812275.0	3.254698	Y



Calibration

/ 2-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

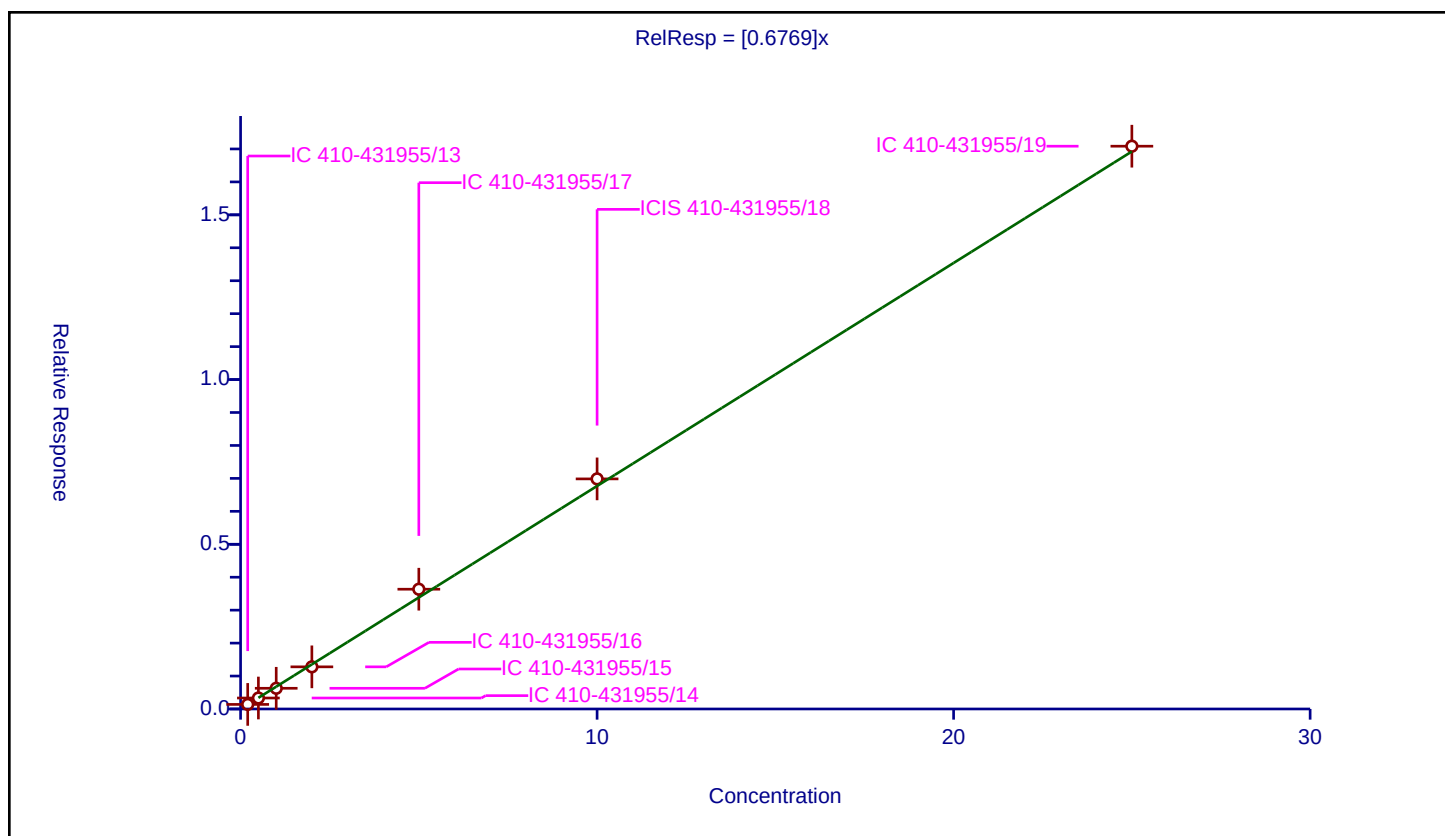
Curve Coefficients

Intercept: 0
Slope: 0.6769

Error Coefficients

Standard Error: 620000
Relative Standard Error: 5.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.138983	10.0	720593.0	0.694914	Y
2	IC 410-431955/14	0.5	0.333285	10.0	730485.0	0.666571	Y
3	IC 410-431955/15	1.0	0.628507	10.0	728345.0	0.628507	Y
4	IC 410-431955/16	2.0	1.279258	10.0	755516.0	0.639629	Y
5	IC 410-431955/17	5.0	3.635397	10.0	753615.0	0.727079	Y
6	ICIS 410-431955/18	10.0	6.984626	10.0	773685.0	0.698463	Y
7	IC 410-431955/19	25.0	17.083943	10.0	812275.0	0.683358	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

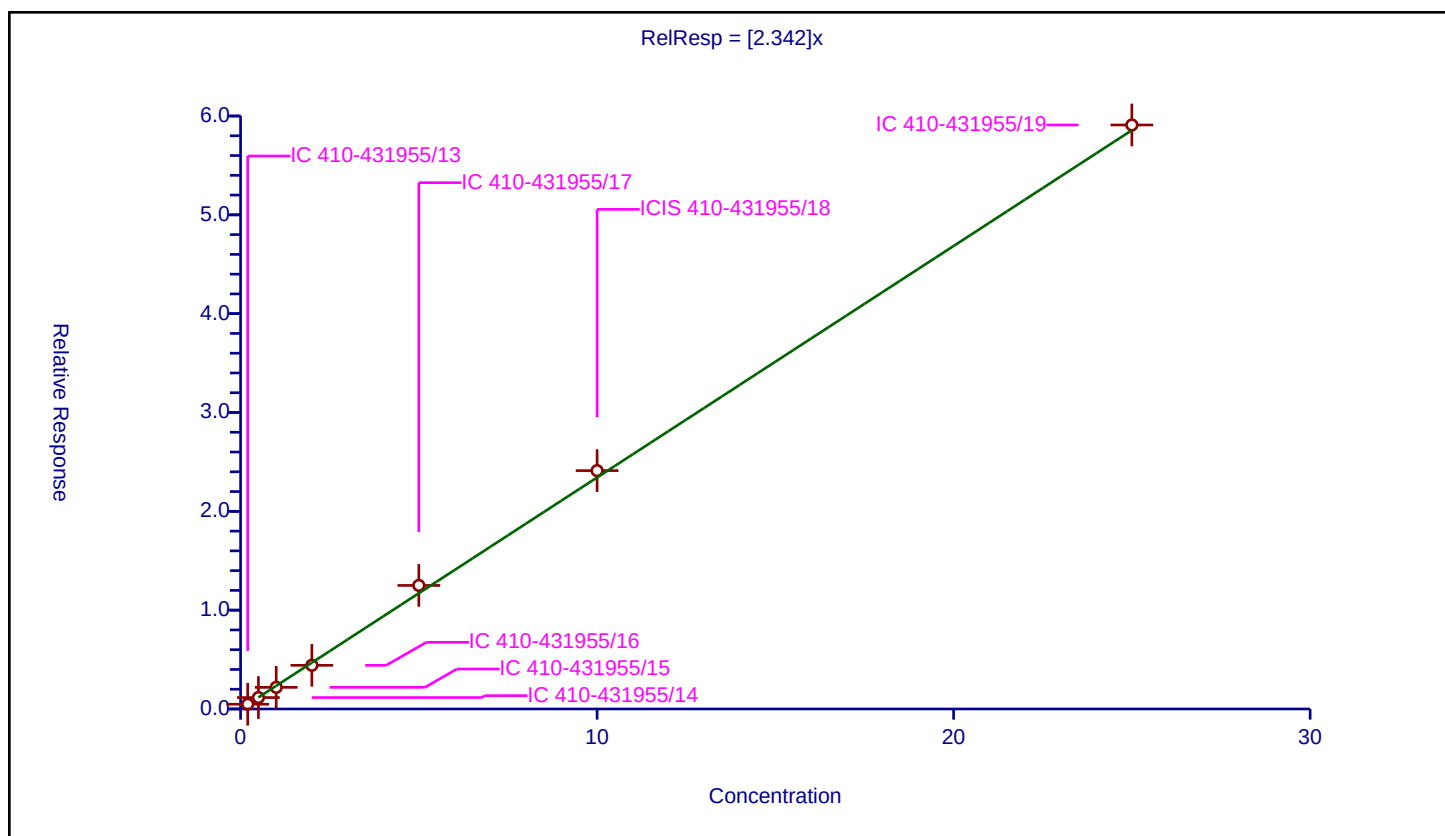
Curve Coefficients

Intercept: 0
 Slope: 2.342

Error Coefficients

Standard Error: 2140000
 Relative Standard Error: 4.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.482422	10.0	720593.0	2.412111	Y
2	IC 410-431955/14	0.5	1.154877	10.0	730485.0	2.309753	Y
3	IC 410-431955/15	1.0	2.189883	10.0	728345.0	2.189883	Y
4	IC 410-431955/16	2.0	4.419602	10.0	755516.0	2.209801	Y
5	IC 410-431955/17	5.0	12.501065	10.0	753615.0	2.500213	Y
6	ICIS 410-431955/18	10.0	24.118924	10.0	773685.0	2.411892	Y
7	IC 410-431955/19	25.0	59.092315	10.0	812275.0	2.363693	Y



Calibration

/ 4-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

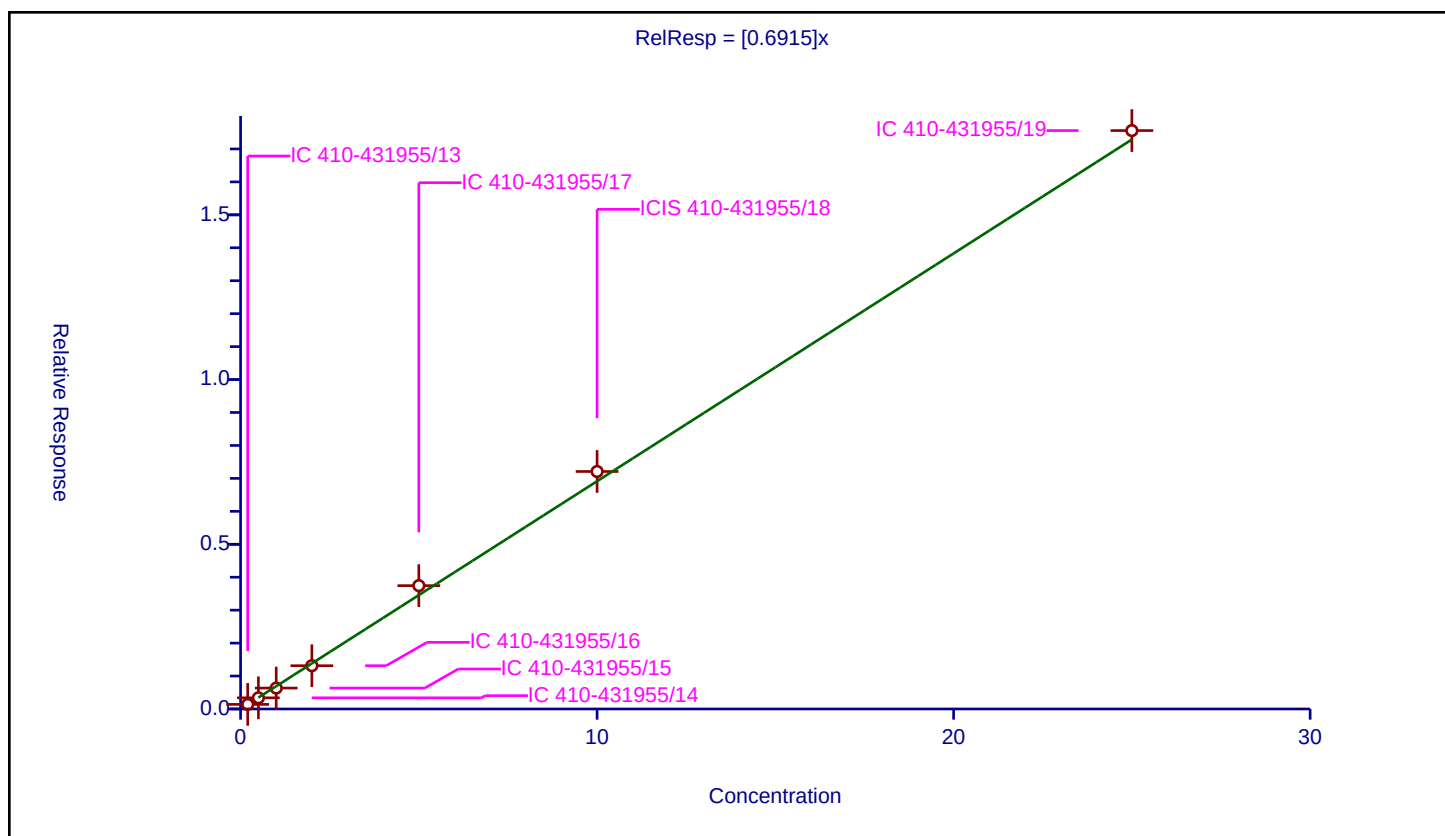
Curve Coefficients

Intercept: 0
Slope: 0.6915

Error Coefficients

Standard Error: 637000
Relative Standard Error: 5.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.139677	10.0	720593.0	0.698383	Y
2	IC 410-431955/14	0.5	0.339158	10.0	730485.0	0.678316	Y
3	IC 410-431955/15	1.0	0.634713	10.0	728345.0	0.634713	Y
4	IC 410-431955/16	2.0	1.313288	10.0	755516.0	0.656644	Y
5	IC 410-431955/17	5.0	3.744087	10.0	753615.0	0.748817	Y
6	ICIS 410-431955/18	10.0	7.209588	10.0	773685.0	0.720959	Y
7	IC 410-431955/19	25.0	17.558265	10.0	812275.0	0.702331	Y



Calibration

/ tert-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

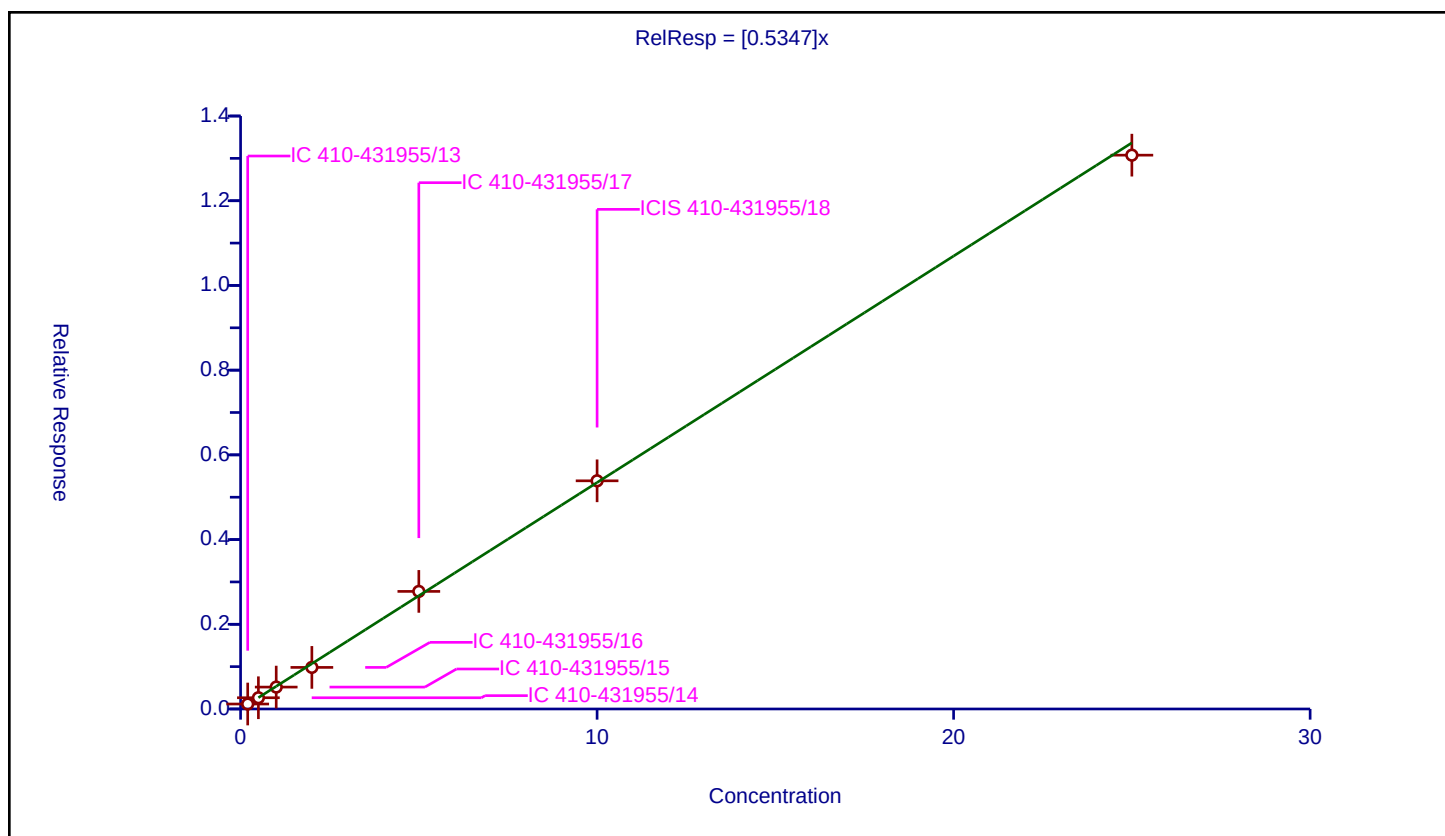
Curve Coefficients

Intercept: 0
Slope: 0.5347

Error Coefficients

Standard Error: 475000
Relative Standard Error: 5.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.117417	10.0	720593.0	0.587086	Y
2	IC 410-431955/14	0.5	0.265235	10.0	730485.0	0.530469	Y
3	IC 410-431955/15	1.0	0.5172	10.0	728345.0	0.5172	Y
4	IC 410-431955/16	2.0	0.982004	10.0	755516.0	0.491002	Y
5	IC 410-431955/17	5.0	2.776404	10.0	753615.0	0.555281	Y
6	ICIS 410-431955/18	10.0	5.387231	10.0	773685.0	0.538723	Y
7	IC 410-431955/19	25.0	13.075744	10.0	812275.0	0.52303	Y



Calibration

/ Pentachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

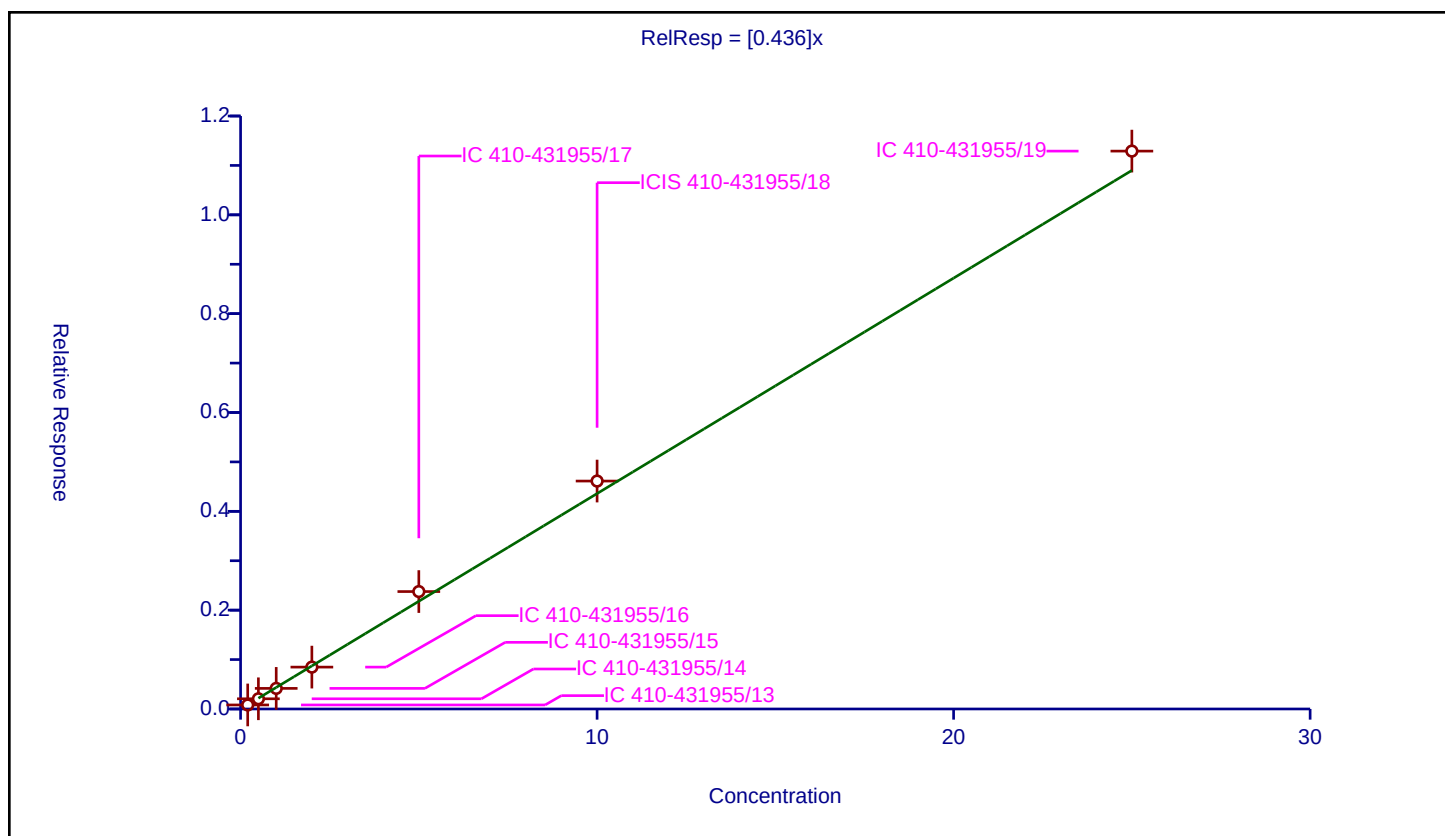
Curve Coefficients

Intercept: 0
Slope: 0.436

Error Coefficients

Standard Error: 409000
Relative Standard Error: 6.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.081946	10.0	720593.0	0.409732	Y
2	IC 410-431955/14	0.5	0.20663	10.0	730485.0	0.41326	Y
3	IC 410-431955/15	1.0	0.416904	10.0	728345.0	0.416904	Y
4	IC 410-431955/16	2.0	0.847461	10.0	755516.0	0.42373	Y
5	IC 410-431955/17	5.0	2.376134	10.0	753615.0	0.475227	Y
6	ICIS 410-431955/18	10.0	4.612859	10.0	773685.0	0.461286	Y
7	IC 410-431955/19	25.0	11.289896	10.0	812275.0	0.451596	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

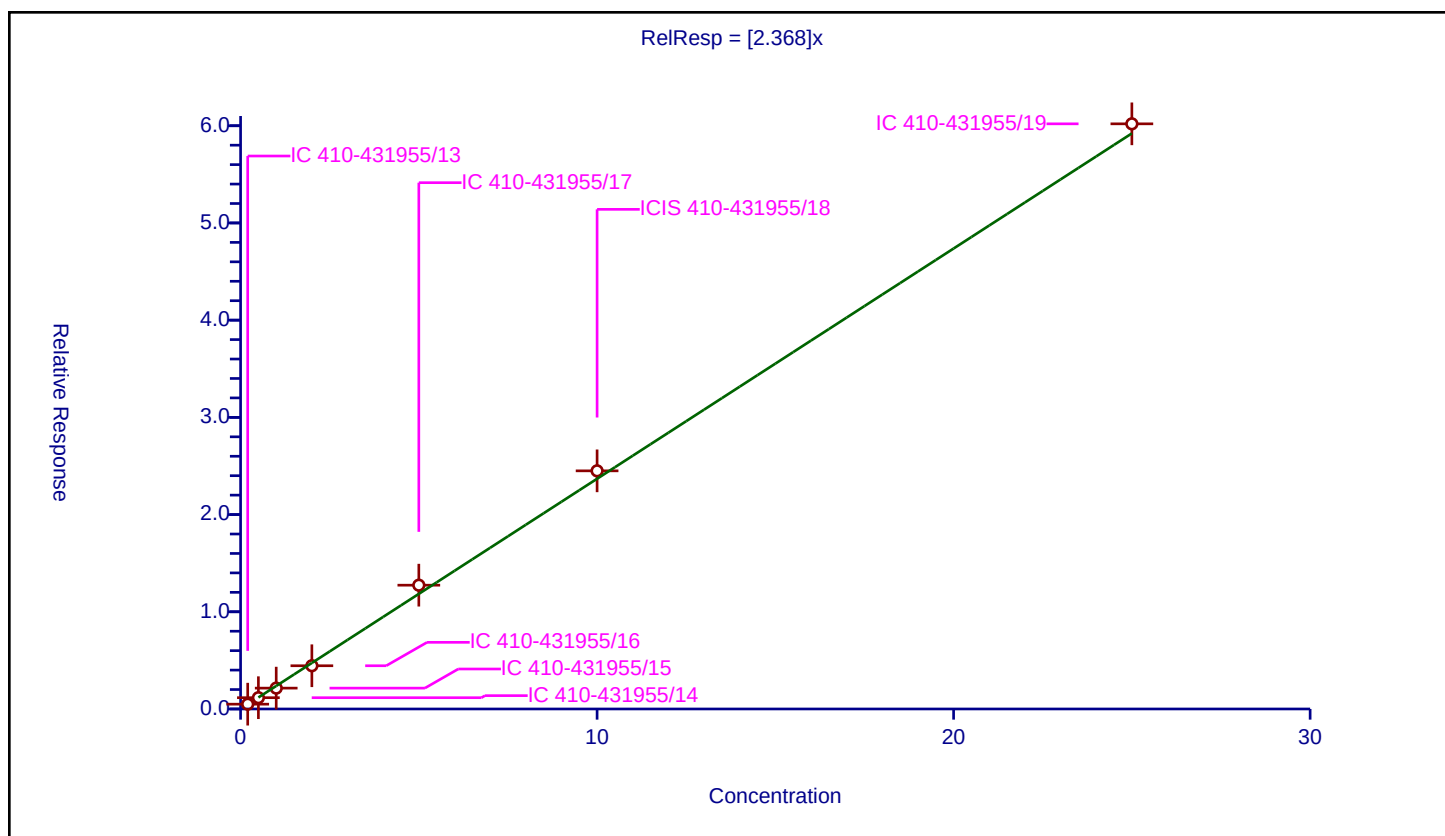
Curve Coefficients

Intercept: 0
 Slope: 2.368

Error Coefficients

Standard Error: 2180000
 Relative Standard Error: 6.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.495592	10.0	720593.0	2.477959	Y
2	IC 410-431955/14	0.5	1.162022	10.0	730485.0	2.324045	Y
3	IC 410-431955/15	1.0	2.147746	10.0	728345.0	2.147746	Y
4	IC 410-431955/16	2.0	4.44937	10.0	755516.0	2.224685	Y
5	IC 410-431955/17	5.0	12.736822	10.0	753615.0	2.547364	Y
6	ICIS 410-431955/18	10.0	24.497851	10.0	773685.0	2.449785	Y
7	IC 410-431955/19	25.0	60.196091	10.0	812275.0	2.407844	Y



Calibration

/ sec-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

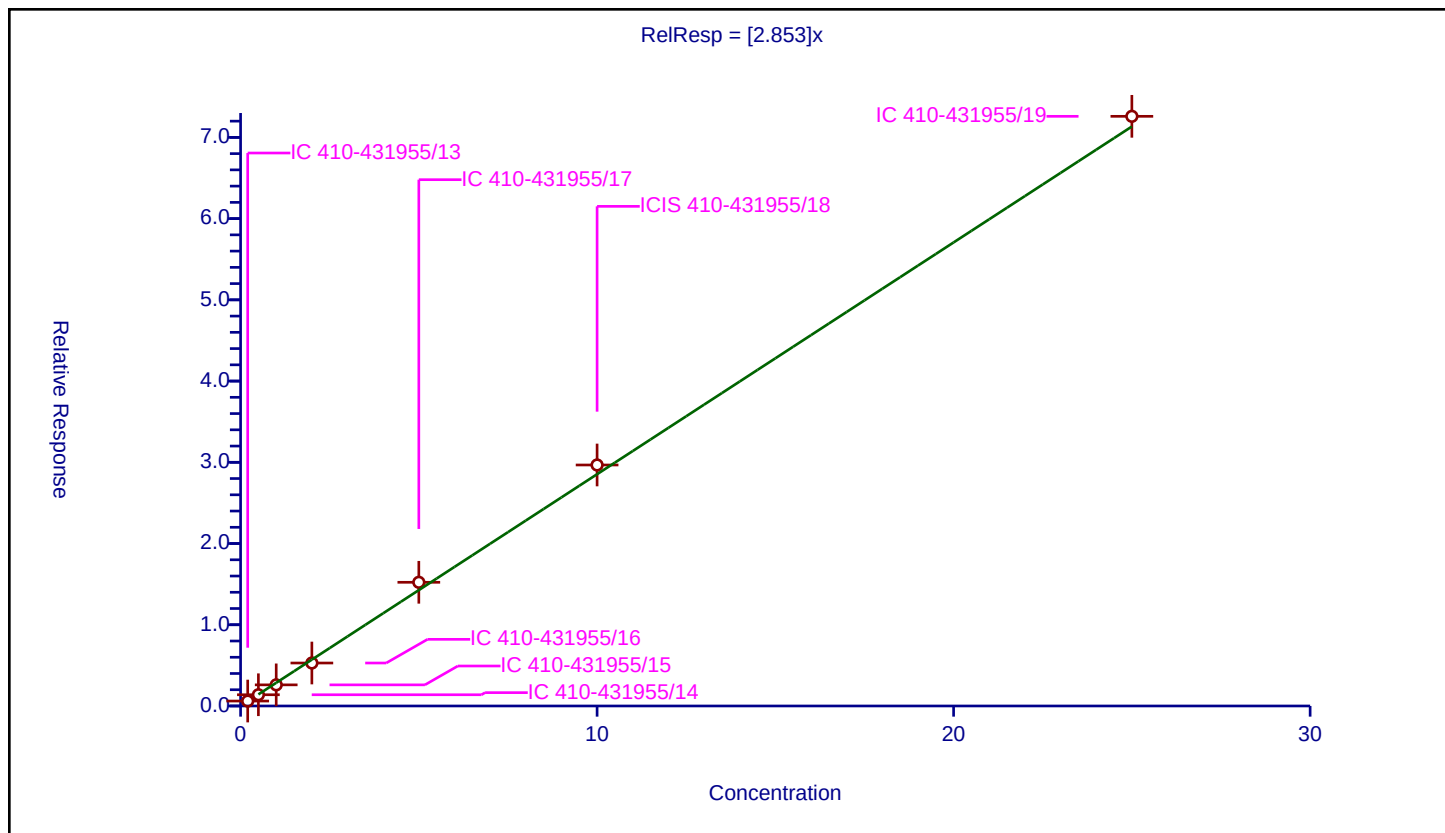
Curve Coefficients

Intercept: 0
 Slope: 2.853

Error Coefficients

Standard Error: 2630000
 Relative Standard Error: 6.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.608291	10.0	720593.0	3.041453	Y
2	IC 410-431955/14	0.5	1.384874	10.0	730485.0	2.769749	Y
3	IC 410-431955/15	1.0	2.600883	10.0	728345.0	2.600883	Y
4	IC 410-431955/16	2.0	5.291523	10.0	755516.0	2.645761	Y
5	IC 410-431955/17	5.0	15.226993	10.0	753615.0	3.045399	Y
6	ICIS 410-431955/18	10.0	29.668366	10.0	773685.0	2.966837	Y
7	IC 410-431955/19	25.0	72.593038	10.0	812275.0	2.903722	Y



Calibration

/ 1,3-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

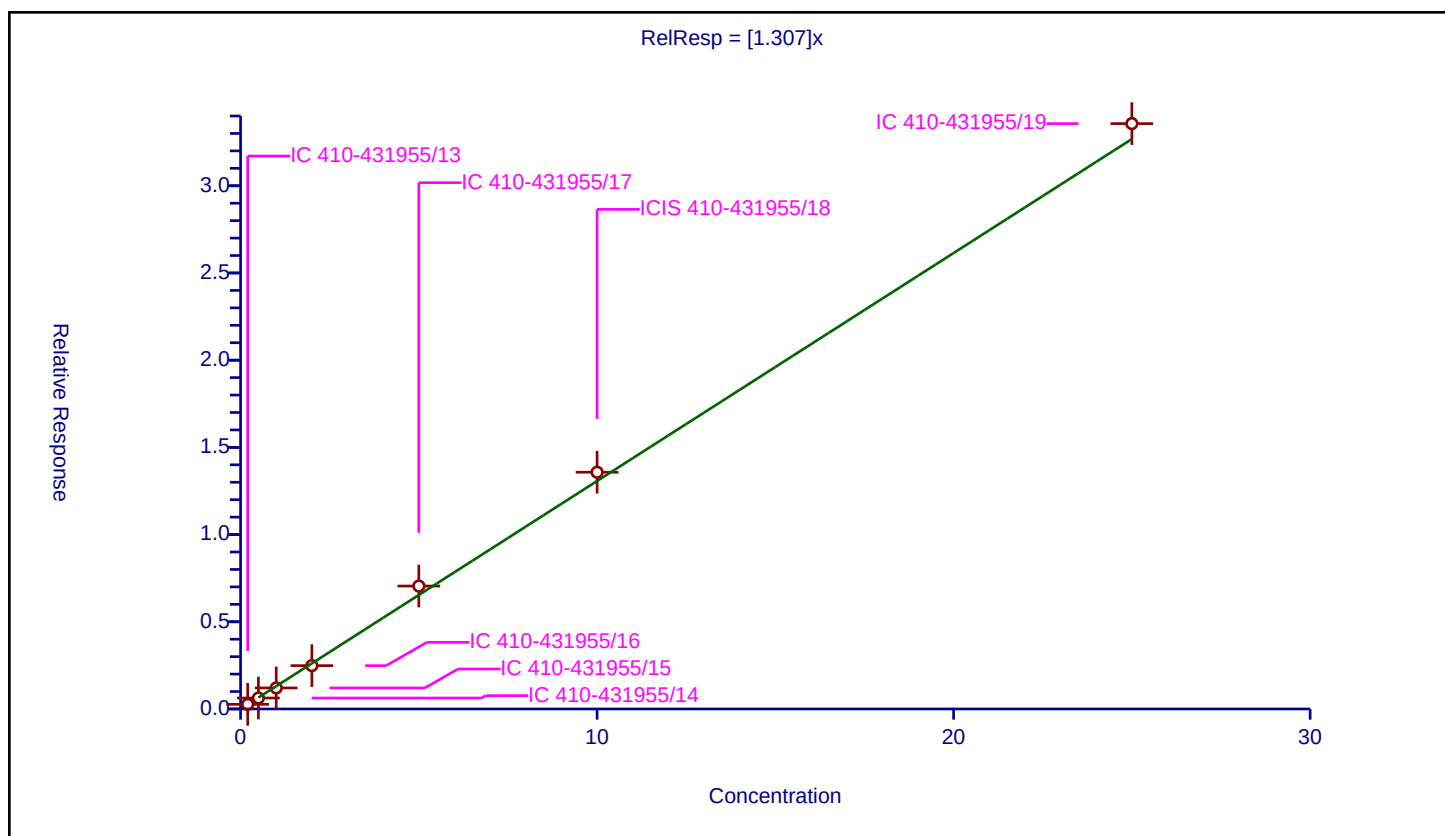
Curve Coefficients

Intercept: 0
Slope: 1.307

Error Coefficients

Standard Error: 1220000
Relative Standard Error: 5.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.266142	10.0	720593.0	1.33071	Y
2	IC 410-431955/14	0.5	0.629719	10.0	730485.0	1.259437	Y
3	IC 410-431955/15	1.0	1.207093	10.0	728345.0	1.207093	Y
4	IC 410-431955/16	2.0	2.486063	10.0	755516.0	1.243031	Y
5	IC 410-431955/17	5.0	7.049621	10.0	753615.0	1.409924	Y
6	ICIS 410-431955/18	10.0	13.575292	10.0	773685.0	1.357529	Y
7	IC 410-431955/19	25.0	33.564396	10.0	812275.0	1.342576	Y



Calibration

/ 4-Isopropyltoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

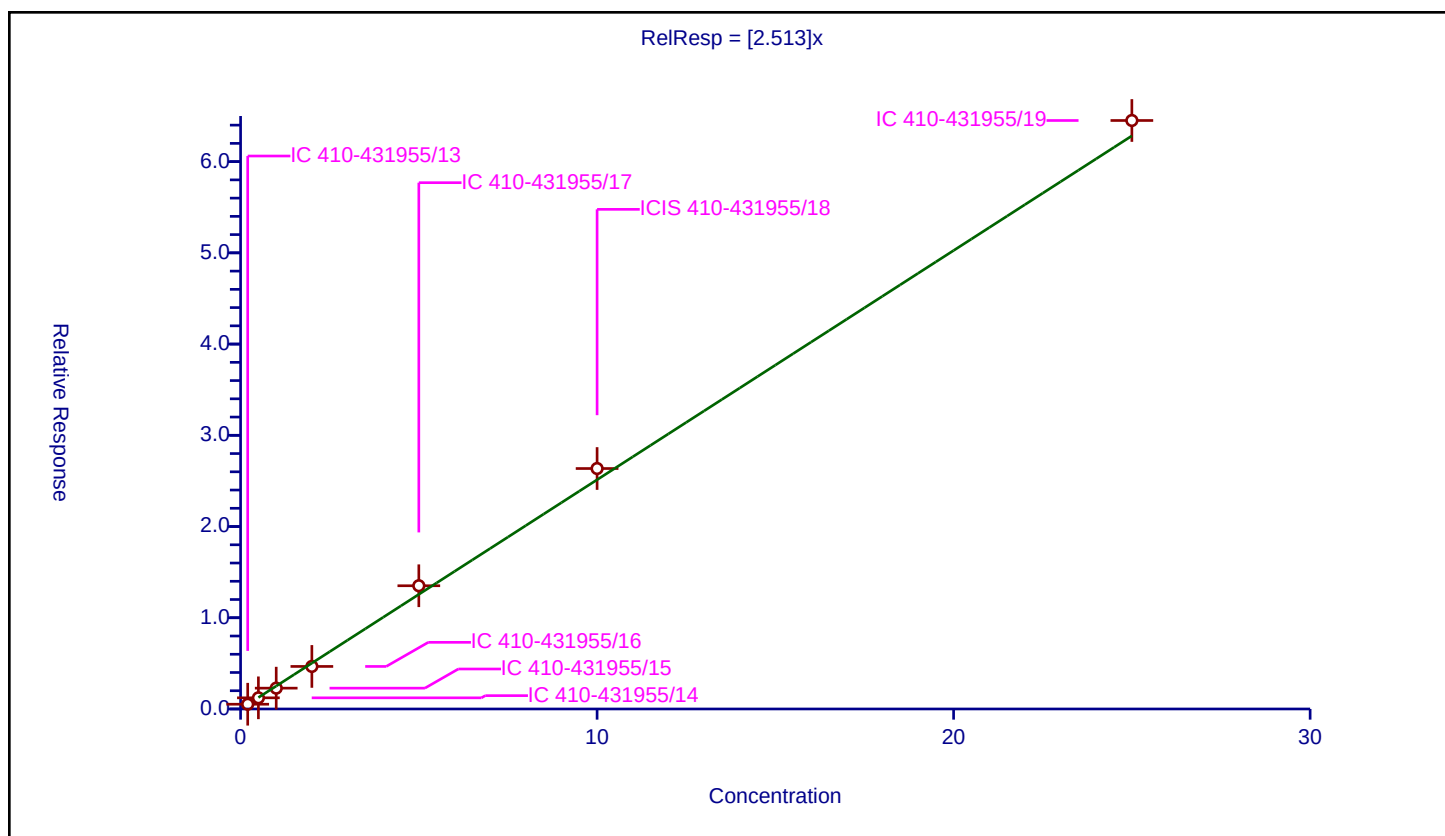
Curve Coefficients

Intercept: 0
 Slope: 2.513

Error Coefficients

Standard Error: 2340000
 Relative Standard Error: 6.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.522223	10.0	720593.0	2.611113	Y
2	IC 410-431955/14	0.5	1.222092	10.0	730485.0	2.444184	Y
3	IC 410-431955/15	1.0	2.284879	10.0	728345.0	2.284879	Y
4	IC 410-431955/16	2.0	4.664878	10.0	755516.0	2.332439	Y
5	IC 410-431955/17	5.0	13.510387	10.0	753615.0	2.702077	Y
6	ICIS 410-431955/18	10.0	26.358596	10.0	773685.0	2.63586	Y
7	IC 410-431955/19	25.0	64.509569	10.0	812275.0	2.580383	Y



Calibration

/ 1,4-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

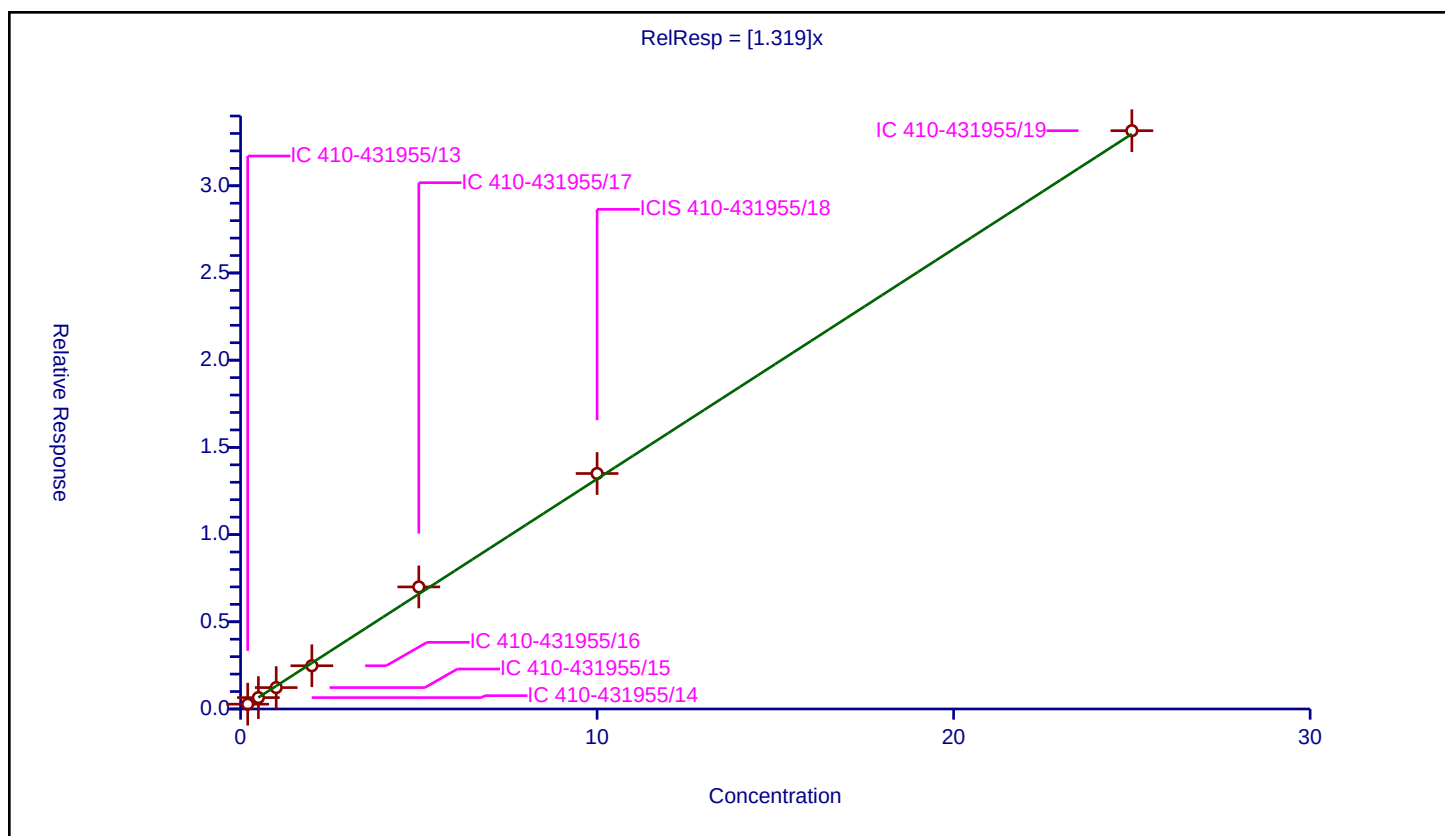
Curve Coefficients

Intercept: 0
Slope: 1.319

Error Coefficients

Standard Error: 1200000
Relative Standard Error: 5.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.276647	10.0	720593.0	1.383236	Y
2	IC 410-431955/14	0.5	0.652293	10.0	730485.0	1.304585	Y
3	IC 410-431955/15	1.0	1.227564	10.0	728345.0	1.227564	Y
4	IC 410-431955/16	2.0	2.479617	10.0	755516.0	1.239808	Y
5	IC 410-431955/17	5.0	6.998454	10.0	753615.0	1.399691	Y
6	ICIS 410-431955/18	10.0	13.502136	10.0	773685.0	1.350214	Y
7	IC 410-431955/19	25.0	33.158462	10.0	812275.0	1.326338	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

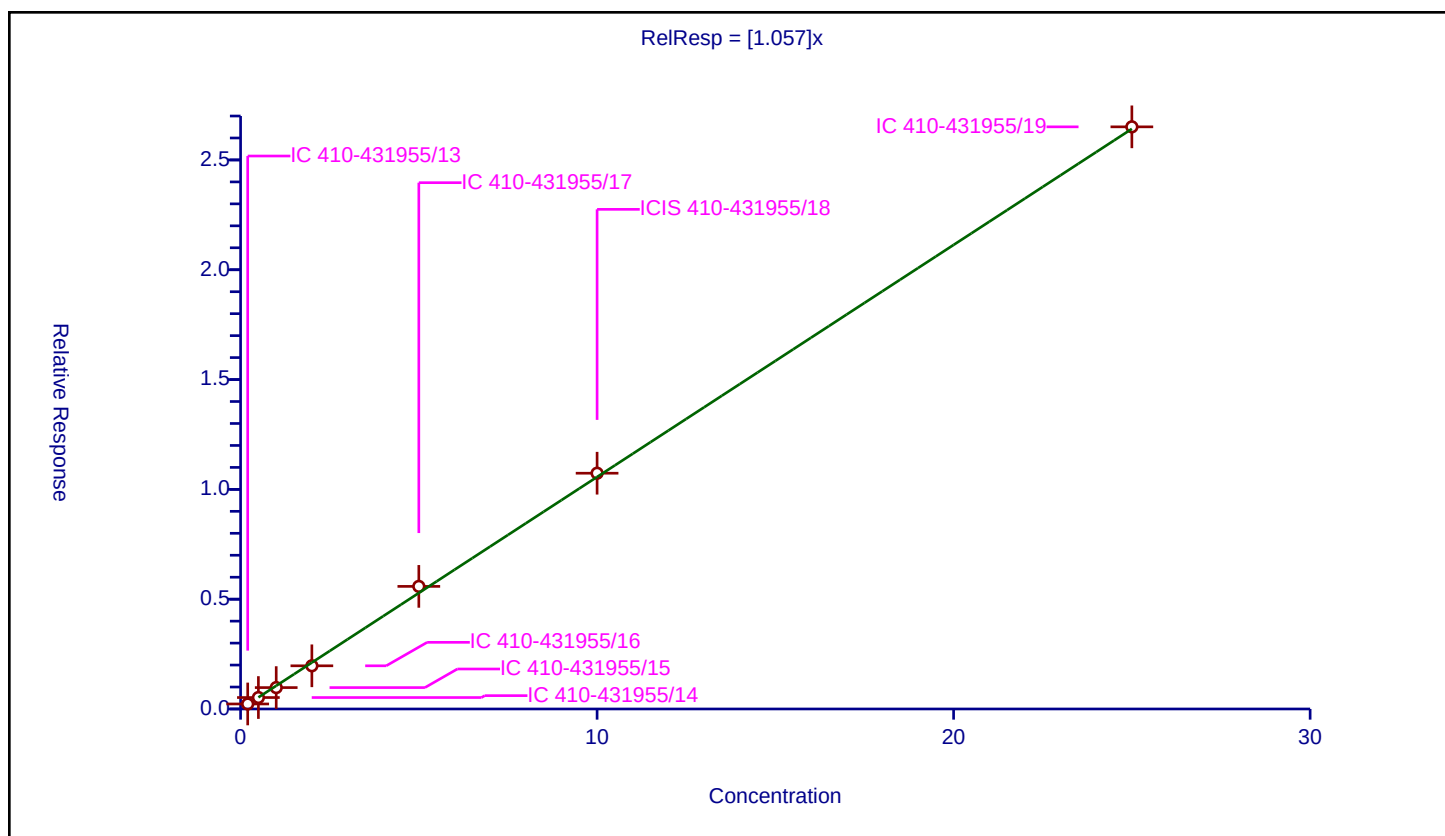
Curve Coefficients

Intercept: 0
Slope: 1.057

Error Coefficients

Standard Error: 960000
Relative Standard Error: 6.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.229242	10.0	720593.0	1.146209	Y
2	IC 410-431955/14	0.5	0.520914	10.0	730485.0	1.041828	Y
3	IC 410-431955/15	1.0	0.974332	10.0	728345.0	0.974332	Y
4	IC 410-431955/16	2.0	1.966603	10.0	755516.0	0.983301	Y
5	IC 410-431955/17	5.0	5.582837	10.0	753615.0	1.116567	Y
6	ICIS 410-431955/18	10.0	10.735984	10.0	773685.0	1.073598	Y
7	IC 410-431955/19	25.0	26.507144	10.0	812275.0	1.060286	Y



Calibration

/ Benzyl chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

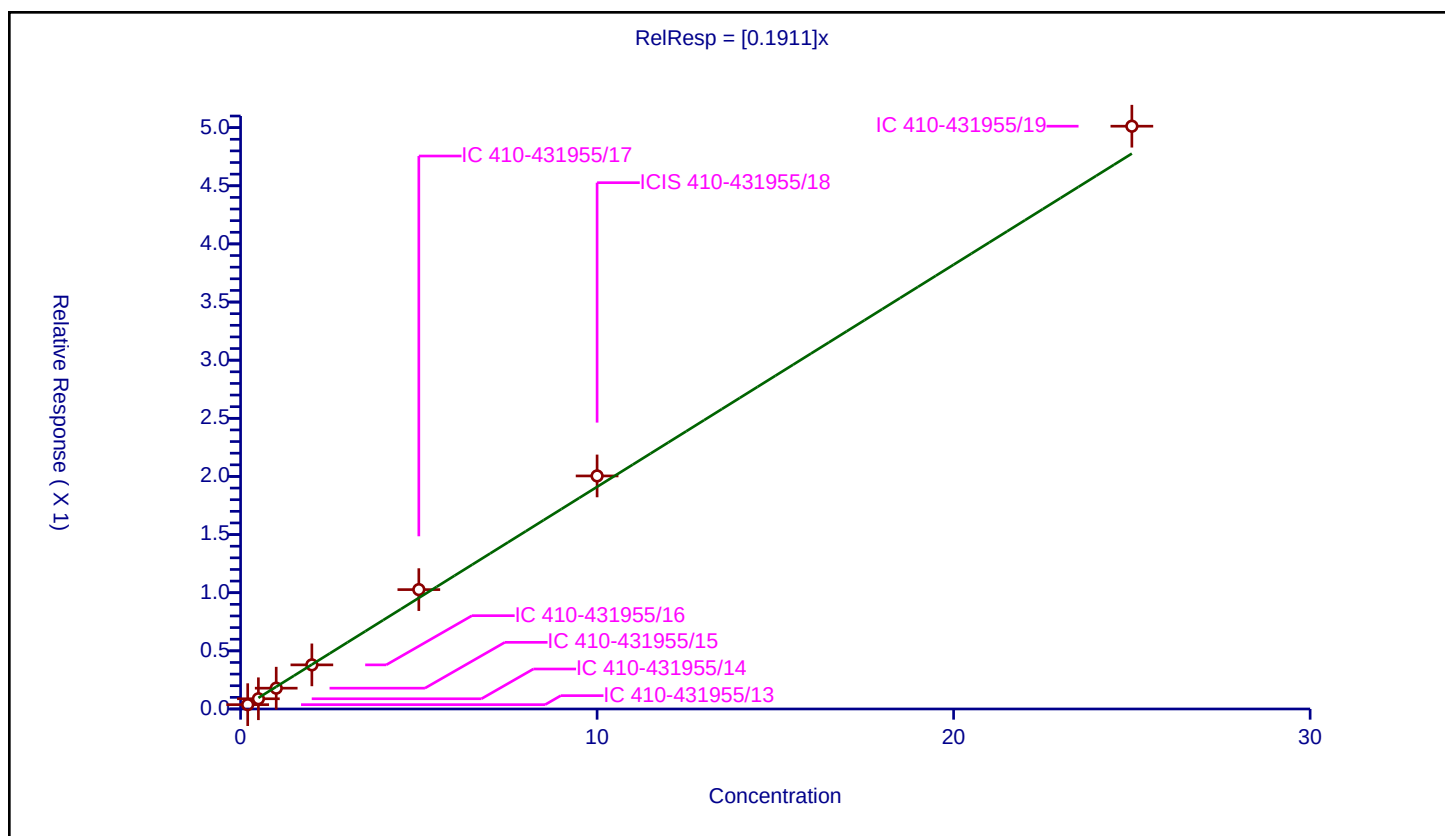
Curve Coefficients

Intercept: 0
 Slope: 0.1911

Error Coefficients

Standard Error: 181000
 Relative Standard Error: 6.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.037372	10.0	720593.0	0.18686	Y
2	IC 410-431955/14	0.5	0.087859	10.0	730485.0	0.175719	Y
3	IC 410-431955/15	1.0	0.178912	10.0	728345.0	0.178912	Y
4	IC 410-431955/16	2.0	0.379463	10.0	755516.0	0.189731	Y
5	IC 410-431955/17	5.0	1.026625	10.0	753615.0	0.205325	Y
6	ICIS 410-431955/18	10.0	2.004446	10.0	773685.0	0.200445	Y
7	IC 410-431955/19	25.0	5.01249	10.0	812275.0	0.2005	Y



Calibration

/ n-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

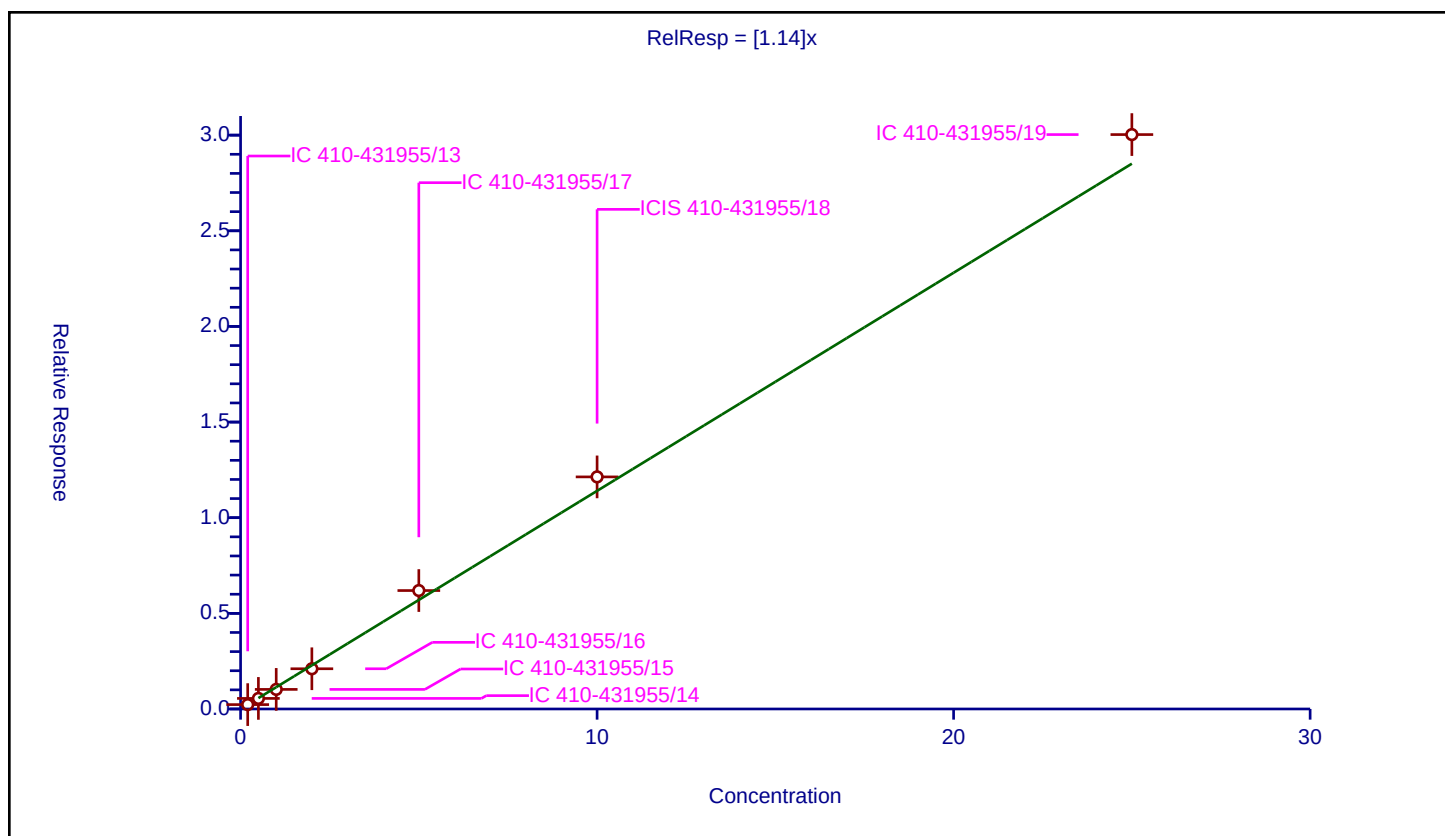
Curve Coefficients

Intercept: 0
Slope: 1.14

Error Coefficients

Standard Error: 1090000
Relative Standard Error: 7.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.229991	10.0	720593.0	1.149956	Y
2	IC 410-431955/14	0.5	0.552126	10.0	730485.0	1.104253	Y
3	IC 410-431955/15	1.0	1.023746	10.0	728345.0	1.023746	Y
4	IC 410-431955/16	2.0	2.102695	10.0	755516.0	1.051348	Y
5	IC 410-431955/17	5.0	6.191411	10.0	753615.0	1.238282	Y
6	ICIS 410-431955/18	10.0	12.133995	10.0	773685.0	1.2134	Y
7	IC 410-431955/19	25.0	30.029091	10.0	812275.0	1.201164	Y



Calibration

/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

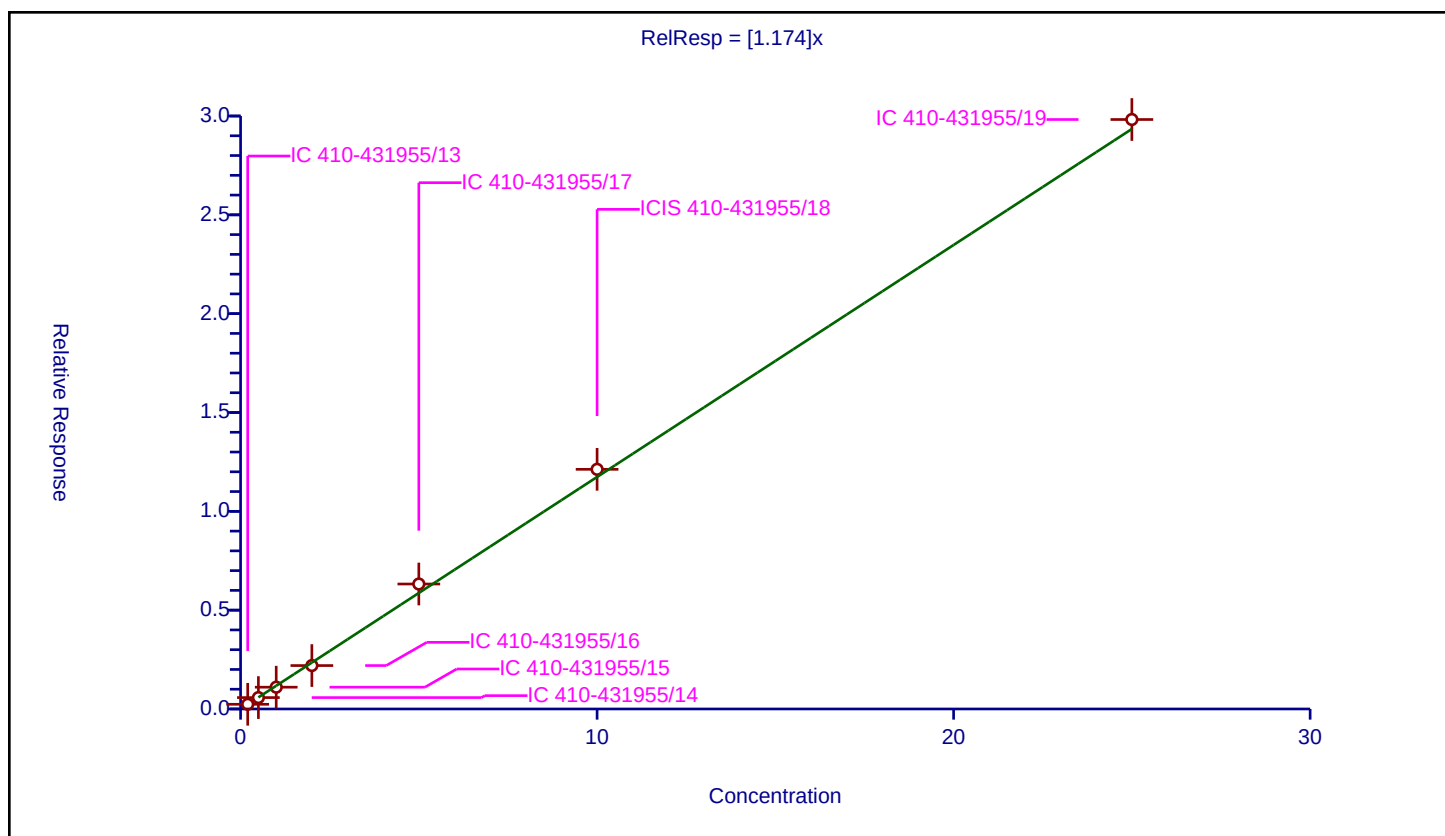
Curve Coefficients

Intercept: 0
Slope: 1.174

Error Coefficients

Standard Error: 1080000
Relative Standard Error: 5.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.238595	10.0	720593.0	1.192976	Y
2	IC 410-431955/14	0.5	0.576398	10.0	730485.0	1.152796	Y
3	IC 410-431955/15	1.0	1.102266	10.0	728345.0	1.102266	Y
4	IC 410-431955/16	2.0	2.197055	10.0	755516.0	1.098527	Y
5	IC 410-431955/17	5.0	6.32295	10.0	753615.0	1.26459	Y
6	ICIS 410-431955/18	10.0	12.125128	10.0	773685.0	1.212513	Y
7	IC 410-431955/19	25.0	29.823188	10.0	812275.0	1.192928	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

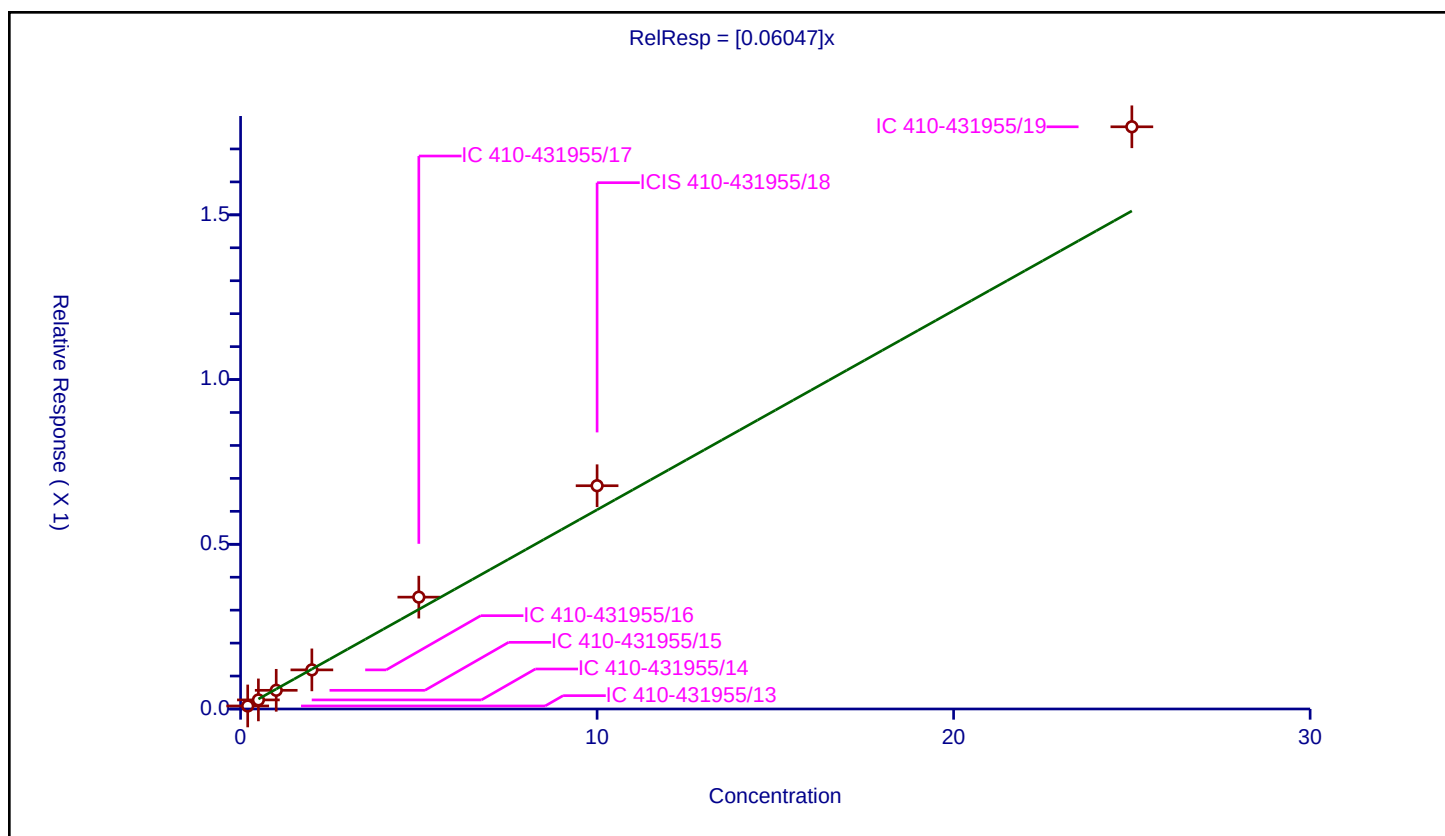
Curve Coefficients

Intercept: 0
Slope: 0.06047

Error Coefficients

Standard Error: 63400
Relative Standard Error: 14.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.009159	10.0	720593.0	0.045796	Y
2	IC 410-431955/14	0.5	0.027543	10.0	730485.0	0.055087	Y
3	IC 410-431955/15	1.0	0.056704	10.0	728345.0	0.056704	Y
4	IC 410-431955/16	2.0	0.1187	10.0	755516.0	0.05935	Y
5	IC 410-431955/17	5.0	0.339537	10.0	753615.0	0.067907	Y
6	ICIS 410-431955/18	10.0	0.677744	10.0	773685.0	0.067774	Y
7	IC 410-431955/19	25.0	1.767332	10.0	812275.0	0.070693	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

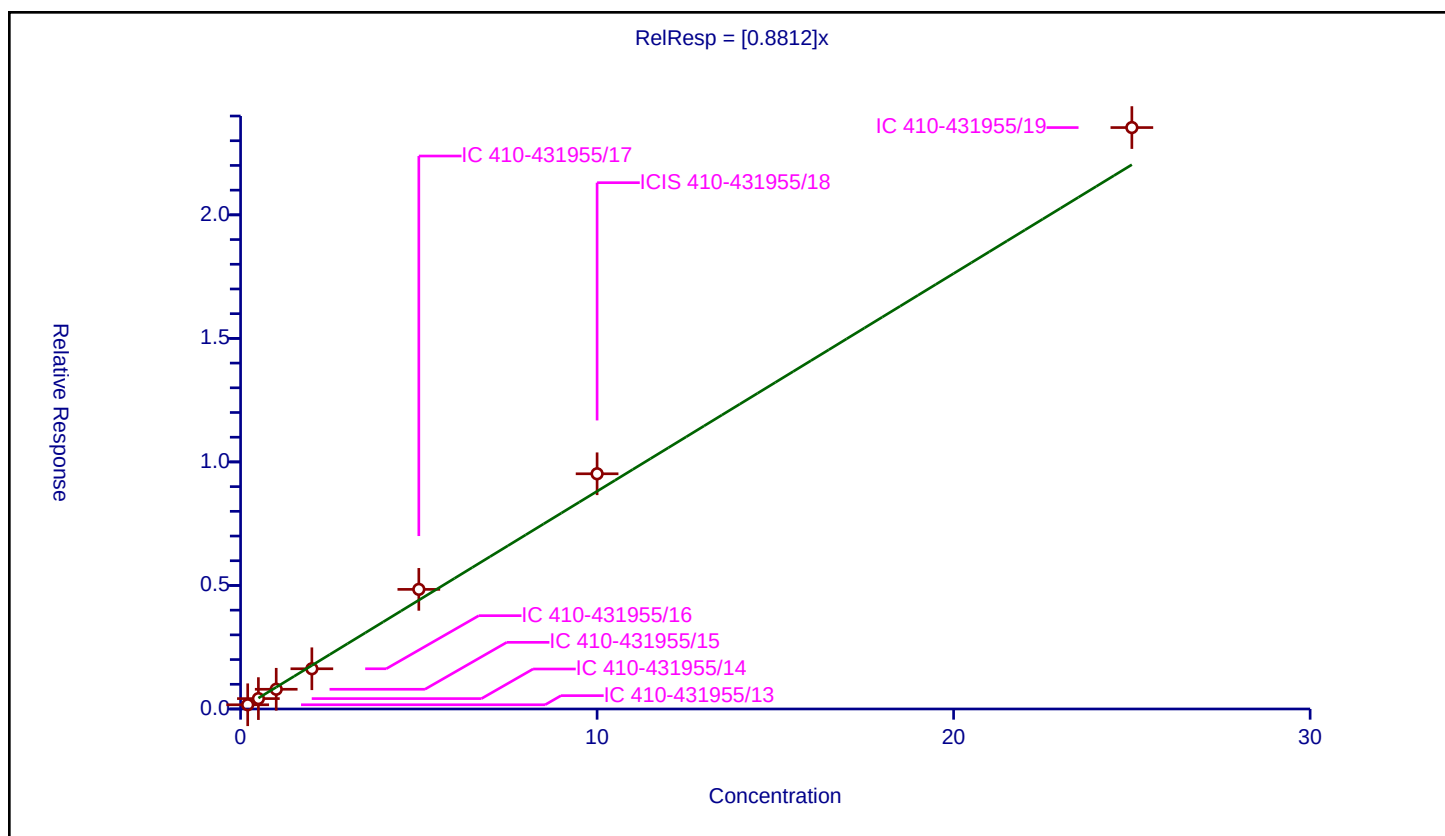
Curve Coefficients

Intercept: 0
Slope: 0.8812

Error Coefficients

Standard Error: 851000
Relative Standard Error: 8.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.170901	10.0	720593.0	0.854505	Y
2	IC 410-431955/14	0.5	0.420118	10.0	730485.0	0.840236	Y
3	IC 410-431955/15	1.0	0.798372	10.0	728345.0	0.798372	Y
4	IC 410-431955/16	2.0	1.627934	10.0	755516.0	0.813967	Y
5	IC 410-431955/17	5.0	4.840947	10.0	753615.0	0.968189	Y
6	ICIS 410-431955/18	10.0	9.520192	10.0	773685.0	0.952019	Y
7	IC 410-431955/19	25.0	23.532547	10.0	812275.0	0.941302	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

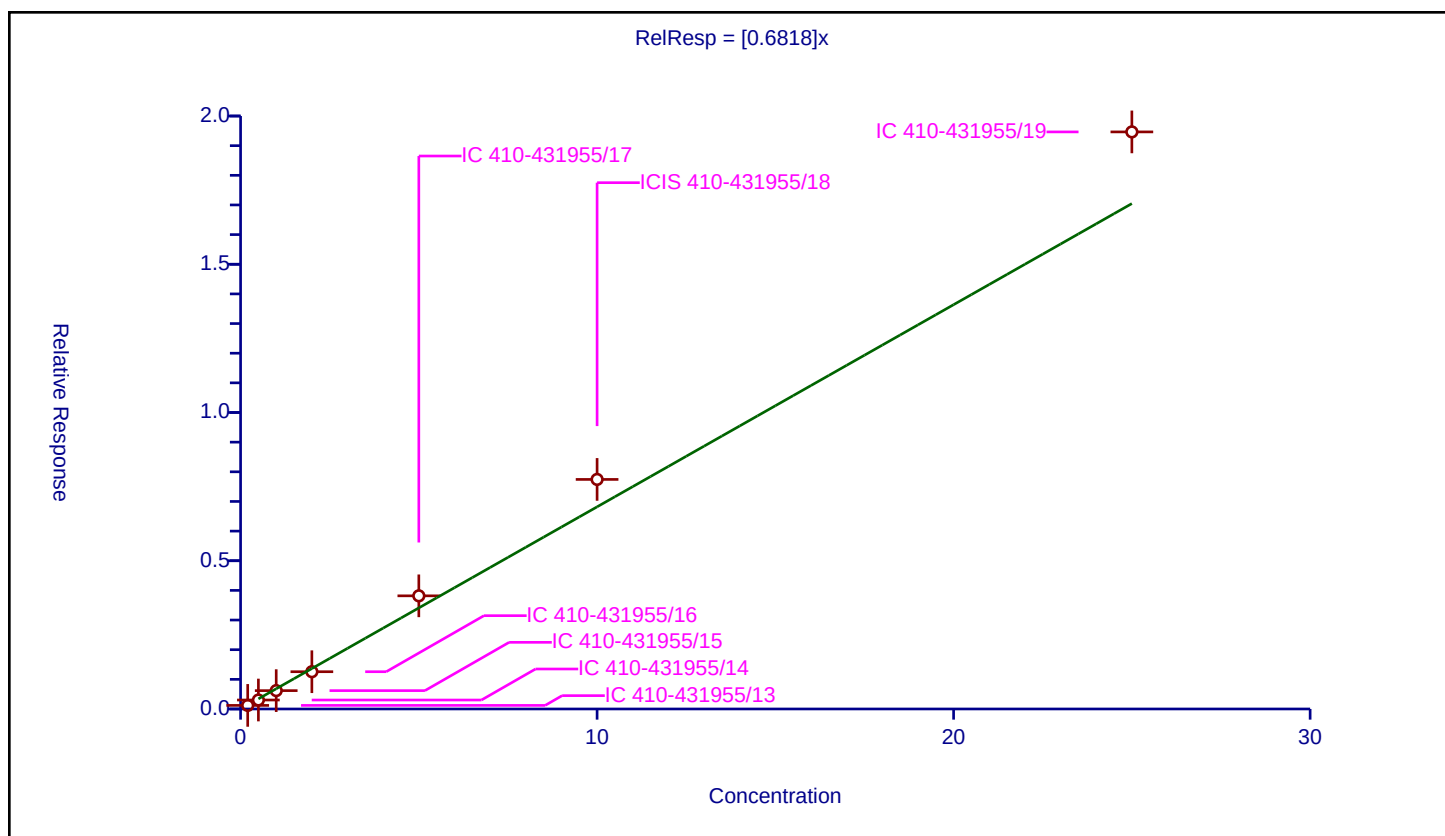
Curve Coefficients

Intercept: 0
Slope: 0.6818

Error Coefficients

Standard Error: 702000
Relative Standard Error: 12.5
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.12072	10.0	720593.0	0.6036	Y
2	IC 410-431955/14	0.5	0.302607	10.0	730485.0	0.605214	Y
3	IC 410-431955/15	1.0	0.619596	10.0	728345.0	0.619596	Y
4	IC 410-431955/16	2.0	1.256638	10.0	755516.0	0.628319	Y
5	IC 410-431955/17	5.0	3.816352	10.0	753615.0	0.76327	Y
6	ICIS 410-431955/18	10.0	7.74288	10.0	773685.0	0.774288	Y
7	IC 410-431955/19	25.0	19.464049	10.0	812275.0	0.778562	Y



Calibration

/ Hexachlorobutadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

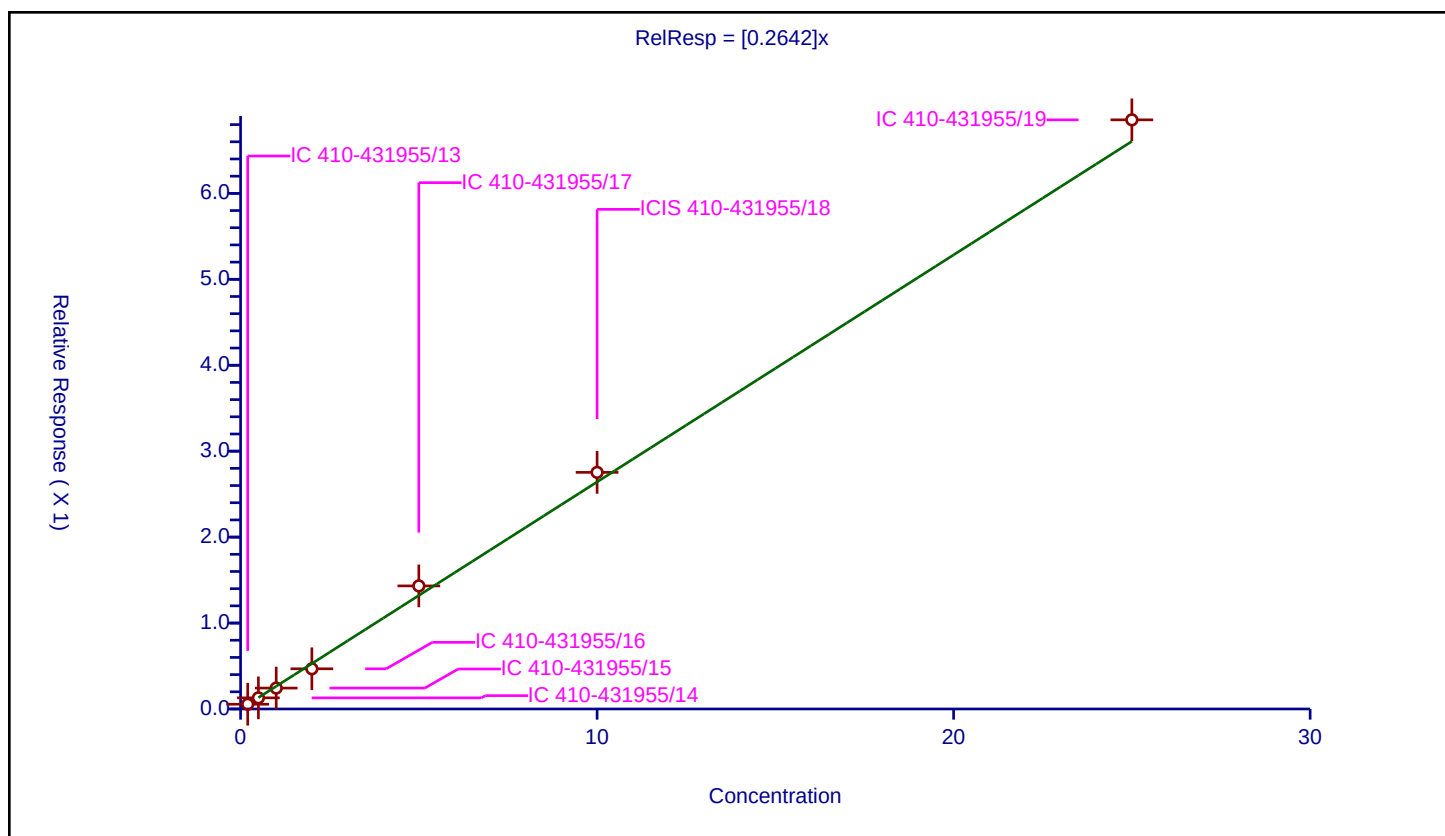
Curve Coefficients

Intercept: 0
Slope: 0.2642

Error Coefficients

Standard Error: 248000
Relative Standard Error: 7.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.055343	10.0	720593.0	0.276717	Y
2	IC 410-431955/14	0.5	0.129667	10.0	730485.0	0.259335	Y
3	IC 410-431955/15	1.0	0.243538	10.0	728345.0	0.243538	Y
4	IC 410-431955/16	2.0	0.467773	10.0	755516.0	0.233887	Y
5	IC 410-431955/17	5.0	1.432084	10.0	753615.0	0.286417	Y
6	ICIS 410-431955/18	10.0	2.753343	10.0	773685.0	0.275334	Y
7	IC 410-431955/19	25.0	6.855498	10.0	812275.0	0.27422	Y



Calibration

/ Naphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

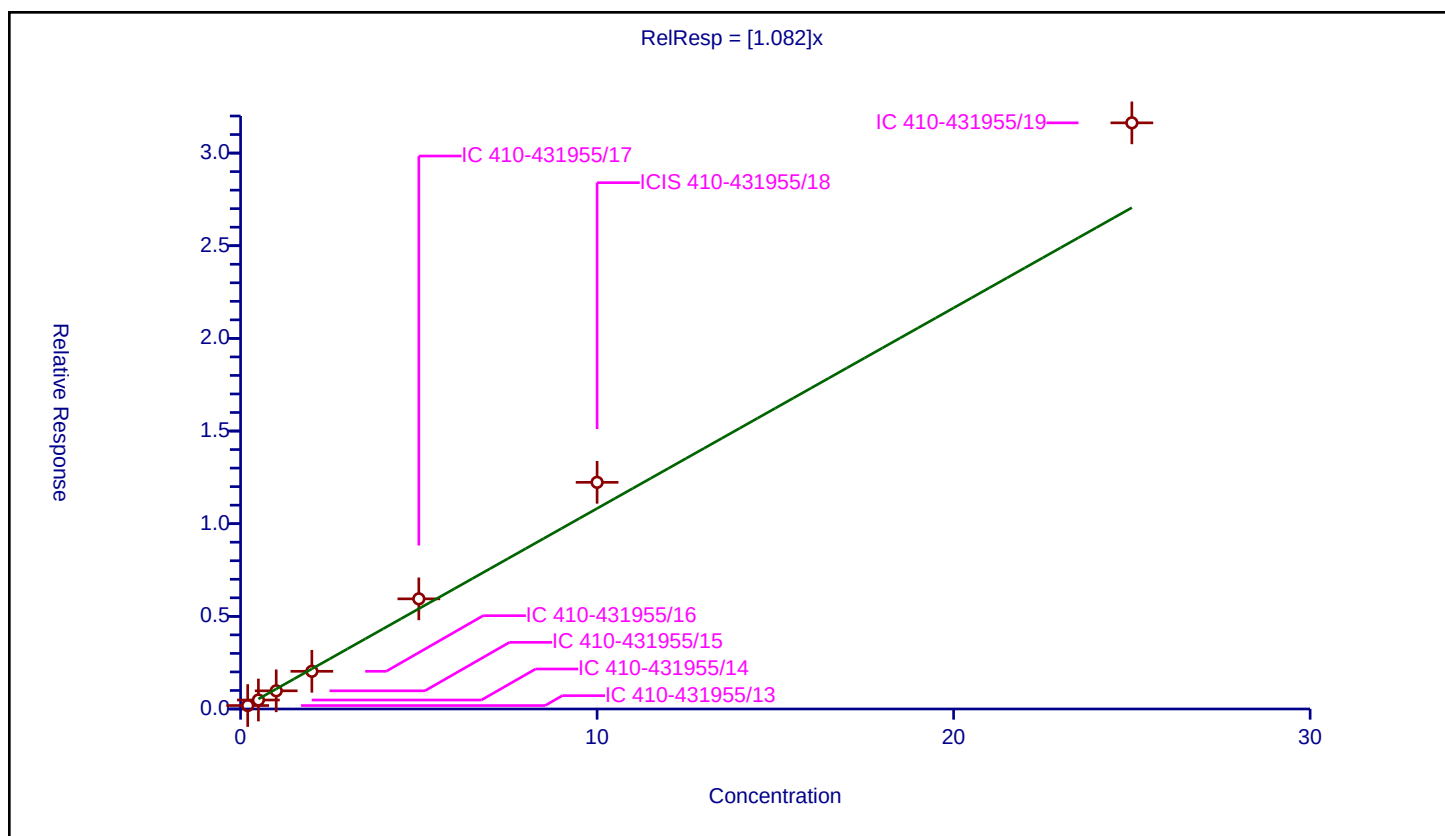
Curve Coefficients

Intercept: 0
Slope: 1.082

Error Coefficients

Standard Error: 1130000
Relative Standard Error: 12.8
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.186236	10.0	720593.0	0.931178	Y
2	IC 410-431955/14	0.5	0.484555	10.0	730485.0	0.96911	Y
3	IC 410-431955/15	1.0	0.980263	10.0	728345.0	0.980263	Y
4	IC 410-431955/16	2.0	2.034808	10.0	755516.0	1.017404	Y
5	IC 410-431955/17	5.0	5.943937	10.0	753615.0	1.188787	Y
6	ICIS 410-431955/18	10.0	12.230985	10.0	773685.0	1.223099	Y
7	IC 410-431955/19	25.0	31.632033	10.0	812275.0	1.265281	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

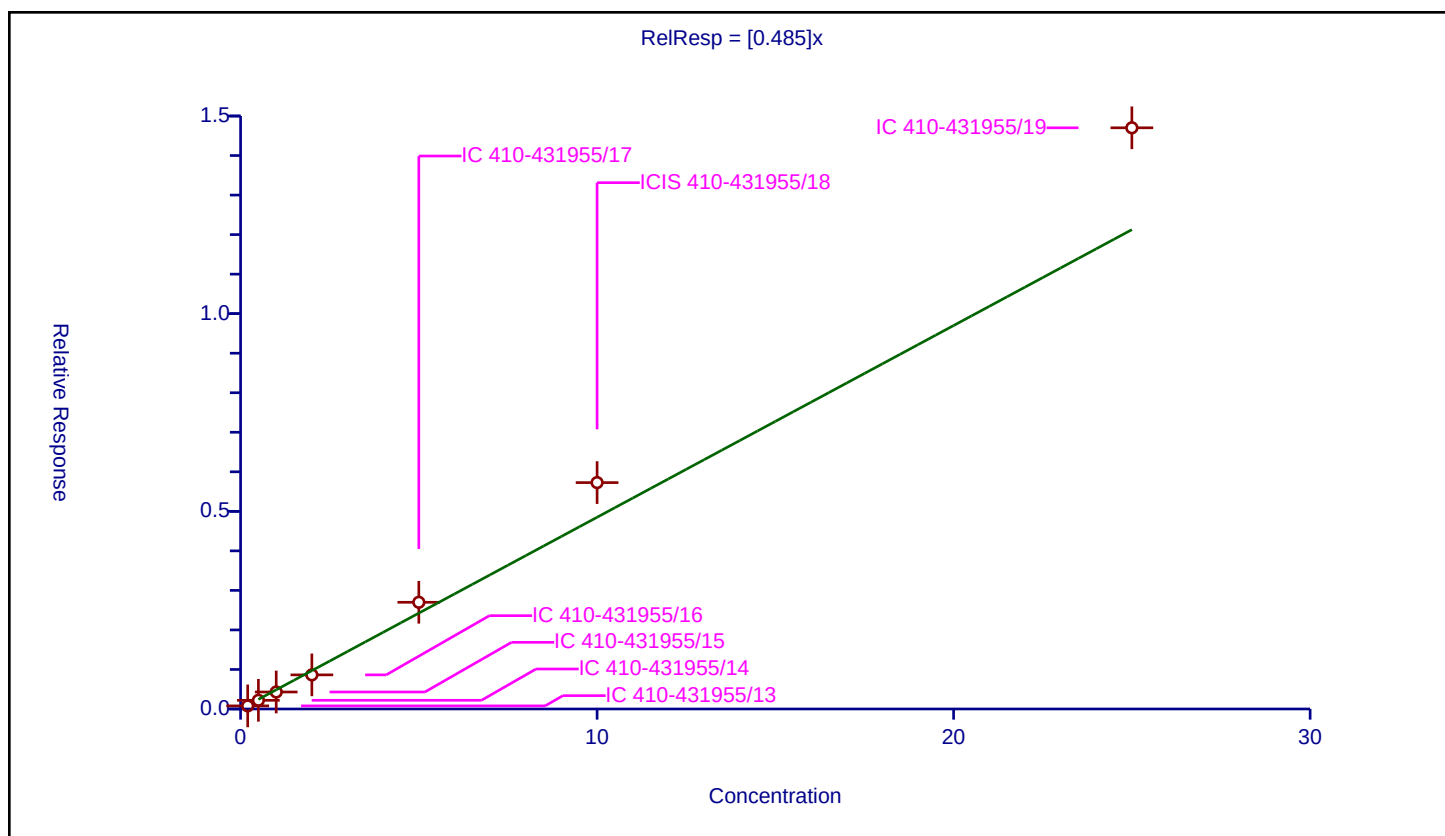
Curve Coefficients

Intercept: 0
Slope: 0.485

Error Coefficients

Standard Error: 527000
Relative Standard Error: 16.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-431955/13	0.2	0.078685	10.0	720593.0	0.393426	Y
2	IC 410-431955/14	0.5	0.219635	10.0	730485.0	0.43927	Y
3	IC 410-431955/15	1.0	0.430222	10.0	728345.0	0.430222	Y
4	IC 410-431955/16	2.0	0.863105	10.0	755516.0	0.431553	Y
5	IC 410-431955/17	5.0	2.699216	10.0	753615.0	0.539843	Y
6	ICIS 410-431955/18	10.0	5.726969	10.0	773685.0	0.572697	Y
7	IC 410-431955/19	25.0	14.701696	10.0	812275.0	0.588068	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Lab Sample ID: ICV 410-452392/21

Calibration Date: 12/12/2023 00:25

Instrument ID: 10193

Calib Start Date: 12/11/2023 21:27

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

Calib End Date: 12/11/2023 23:41

Lab File ID: CD11X20.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	0.3182	0.3166	0.1000	4.98	5.00	-0.5	30.0
Chloromethane	Ave	0.3985	0.3737	0.1000	4.69	5.00	-6.2	30.0
Vinyl chloride	Ave	0.3631	0.3630	0.1000	5.00	5.00	-0.0	30.0
1,3-Butadiene	Ave	0.3661	0.3339		4.56	5.00	-8.8	30.0
Bromomethane	Ave	0.2506	0.2476	0.1000	4.94	5.00	-1.2	30.0
Chloroethane	Ave	0.2013	0.2056	0.1000	5.11	5.00	2.1	30.0
Dichlorofluoromethane	Ave	0.5484	0.5017		4.57	5.00	-8.5	30.0
Trichlorofluoromethane	Ave	0.3950	0.4095	0.1000	5.18	5.00	3.7	30.0
Ethyl ether	Ave	0.2151	0.2252		5.22	4.99	4.7	30.0
Freon 123a	Ave	0.3125	0.3085		4.94	5.00	-1.3	30.0
Acrolein	Ave	2.241	2.430		40.7	37.5	8.5	30.0
1,1-Dichloroethene	Ave	0.2231	0.2360	0.1000	5.29	5.00	5.8	30.0
Acetone	Ave	2.617	2.692	0.1000	64.3	62.5	2.9	30.0
Freon 113	Ave	0.2347	0.2211	0.1000	4.71	5.00	-5.8	30.0
Methyl iodide	Ave	0.4675	0.4487		4.80	5.00	-4.0	30.0
Ethyl bromide	Ave	0.2093	0.2064		4.83	4.89	-1.4	30.0
Carbon disulfide	Ave	0.7774	0.7490	0.1000	4.82	5.00	-3.7	30.0
Methyl acetate	Ave	8.866	8.047	0.1000	4.54	5.00	-9.2	30.0
Allyl chloride	Ave	0.4181	0.3972		4.75	5.00	-5.0	30.0
Methylene Chloride	Ave	0.2621	0.2627	0.1000	5.01	5.00	0.2	30.0
t-Butyl alcohol	Ave	1.133	1.088		48.0	50.0	-3.9	30.0
Acrylonitrile	Ave	4.115	4.111		25.0	25.0	-0.0	30.0
Methyl tert-butyl ether	Ave	0.7272	0.6933	0.1000	4.77	5.00	-4.7	30.0
trans-1,2-Dichloroethene	Ave	0.2657	0.2729	0.1000	5.13	5.00	2.7	30.0
n-Hexane	Ave	0.3597	0.3671		5.10	5.00	2.1	30.0
1,1-Dichloroethane	Ave	0.4873	0.5022	0.2000	5.15	5.00	3.1	30.0
di-Isopropyl ether	Ave	0.9088	0.8827		4.86	5.00	-2.9	30.0
2-Chloro-1,3-butadiene	Ave	0.4013	0.4100		5.11	5.00	2.2	30.0
Ethyl t-butyl ether	Ave	0.8652	0.8625		4.98	5.00	-0.3	30.0
2-Butanone (MEK)	Ave	5.575	5.554	0.1000	62.3	62.5	-0.4	30.0
cis-1,2-Dichloroethene	Ave	0.2996	0.3081	0.1000	5.14	5.00	2.8	30.0
2,2-Dichloropropane	Ave	0.4045	0.4022		4.97	5.00	-0.6	30.0
Propionitrile	Ave	1.403	1.369		36.6	37.5	-2.4	30.0
Methacrylonitrile	Ave	5.314	5.769		40.7	37.5	8.6	30.0
Bromochloromethane	Ave	0.1343	0.1420		5.28	5.00	5.7	30.0
Tetrahydrofuran	Ave	1.604	1.604		25.0	25.0	0.0	30.0
Chloroform	Ave	0.4954	0.4853	0.2000	4.90	5.00	-2.0	30.0
1,1,1-Trichloroethane	Ave	0.4118	0.4398	0.1000	5.34	5.00	6.8	30.0
Cyclohexane	Ave	0.4535	0.4623	0.1000	5.10	5.00	1.9	30.0
Carbon tetrachloride	Ave	0.3625	0.3908	0.1000	5.39	5.00	7.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Lab Sample ID: ICV 410-452392/21

Calibration Date: 12/12/2023 00:25

Instrument ID: 10193

Calib Start Date: 12/11/2023 21:27

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

Calib End Date: 12/11/2023 23:41

Lab File ID: CD11X20.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	0.3693	0.3845		5.21	5.00	4.1	30.0
Isobutyl alcohol	Ave	0.4074	0.3899		120	125	-4.3	30.0
Benzene	Ave	1.135	1.149	0.5000	5.06	5.00	1.3	30.0
1,2-Dichloroethane	Ave	0.3053	0.3024	0.1000	4.95	5.00	-0.9	30.0
t-Amyl methyl ether	Ave	0.7865	0.7731		4.91	5.00	-1.7	30.0
n-Heptane	Ave	0.3839	0.4039		5.26	5.00	5.2	30.0
n-Butanol	Ave	0.3450	0.3527		256	250	2.2	30.0
Trichloroethene	Ave	0.2934	0.3008	0.2000	5.13	5.00	2.5	30.0
Methylcyclohexane	Ave	0.4759	0.4999	0.1000	5.25	5.00	5.0	30.0
1,2-Dichloropropane	Ave	0.2950	0.2999	0.1000	5.08	5.00	1.7	30.0
1,4-Dioxane	Ave	0.0701	0.0743	0.0050	132	125	6.0	30.0
Dibromomethane	Ave	0.1436	0.1448		5.04	5.00	0.8	30.0
Methyl methacrylate	Ave	10.75	10.92		5.08	5.00	1.6	30.0
Bromodichloromethane	Ave	0.3426	0.3547	0.2000	5.18	5.00	3.5	30.0
2-Nitropropane	Ave	3.031	2.913		4.80	5.00	-3.9	30.0
1-Bromo-2-chloroethane	Ave	0.3023	0.3105		5.14	5.00	2.7	30.0
cis-1,3-Dichloropropene	Ave	0.4478	0.4401	0.2000	4.91	5.00	-1.7	30.0
4-Methyl-2-pentanone (MIBK)	Ave	13.91	14.44	0.1000	64.9	62.5	3.8	30.0
Toluene	Ave	0.9615	0.9833	0.4000	5.11	5.00	2.3	30.0
trans-1,3-Dichloropropene	Ave	0.4941	0.5037	0.1000	5.10	5.00	2.0	30.0
Ethyl methacrylate	Ave	0.4116	0.4122		5.01	5.00	0.1	30.0
1,1,2-Trichloroethane	Ave	0.2731	0.2740	0.1000	5.02	5.00	0.3	30.0
Tetrachloroethene	Ave	0.4436	0.4733	0.2000	5.33	5.00	6.7	30.0
1,3-Dichloropropane	Ave	0.4691	0.4758		5.07	5.00	1.4	30.0
2-Hexanone	Ave	10.24	10.76	0.1000	65.7	62.5	5.1	30.0
Dibromochloromethane	Ave	0.3331	0.3531		5.30	5.00	6.0	30.0
1,2-Dibromoethane (EDB)	Ave	0.2651	0.2687	0.1000	5.07	5.00	1.3	30.0
1-Chlorohexane	Ave	0.5356	0.5185		4.84	5.00	-3.2	30.0
Chlorobenzene	Ave	1.123	1.156	0.5000	5.15	5.00	3.0	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3881	0.4067		5.24	5.00	4.8	30.0
Ethylbenzene	Ave	1.877	1.947	0.1000	5.19	5.00	3.7	30.0
m&p-Xylene	Ave	0.7548	0.7763	0.1000	10.3	10.0	2.8	30.0
o-Xylene	Ave	0.7520	0.7723	0.3000	5.14	5.00	2.7	30.0
Styrene	Ave	1.233	1.293	0.3000	5.25	5.00	4.9	30.0
Bromoform	Ave	0.2084	0.2163	0.1000	5.19	5.00	3.8	30.0
Isopropylbenzene	Ave	1.790	2.035	0.1000	5.68	5.00	13.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5797	0.5763	0.3000	4.97	5.00	-0.6	30.0
Bromobenzene	Ave	0.8566	0.8654		5.05	5.00	1.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1566	0.1580		25.2	25.0	0.9	30.0
1,2,3-Trichloropropane	Ave	0.1578	0.1589		5.03	5.00	0.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Lab Sample ID: ICV 410-452392/21

Calibration Date: 12/12/2023 00:25

Instrument ID: 10193

Calib Start Date: 12/11/2023 21:27

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

Calib End Date: 12/11/2023 23:41

Lab File ID: CD11X20.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	3.786	3.953		5.22	5.00	4.4	30.0
2-Chlorotoluene	Ave	0.8239	0.8336		5.06	5.00	1.2	30.0
1,3,5-Trimethylbenzene	Ave	2.821	2.905		5.15	5.00	3.0	30.0
4-Chlorotoluene	Ave	0.8634	0.8645		5.01	5.00	0.1	30.0
tert-Butylbenzene	Ave	0.6521	0.6724		5.16	5.00	3.1	30.0
Pentachloroethane	Ave	0.5010	0.5359		5.35	5.00	7.0	30.0
1,2,4-Trimethylbenzene	Ave	2.903	2.982		5.14	5.00	2.7	30.0
sec-Butylbenzene	Ave	3.556	3.756		5.28	5.00	5.6	30.0
1,3-Dichlorobenzene	Ave	1.705	1.739	0.6000	5.10	5.00	2.0	30.0
p-Isopropyltoluene	Ave	3.210	3.282		5.11	5.00	2.2	30.0
1,4-Dichlorobenzene	Ave	1.730	1.761	0.5000	5.09	5.00	1.8	30.0
1,2,3-Trimethylbenzene	Ave	1.334	1.275		4.78	5.00	-4.4	30.0
Benzyl chloride	Ave	0.2318	0.2293		4.95	5.00	-1.1	30.0
n-Butylbenzene	Ave	1.553	1.600		5.15	5.00	3.0	30.0
1,2-Dichlorobenzene	Ave	1.556	1.578	0.4000	5.07	5.00	1.4	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0817	0.0776	0.0500	4.75	5.00	-5.0	30.0
1,3,5-Trichlorobenzene	Ave	1.262	1.282		5.08	5.00	1.5	30.0
1,2,4-Trichlorobenzene	Ave	0.9748	1.017	0.2000	5.22	5.00	4.3	30.0
Hexachlorobutadiene	Ave	0.5229	0.5629		5.38	5.00	7.6	30.0
Naphthalene	Ave	1.444	1.506		5.22	5.00	4.3	30.0
1,2,3-Trichlorobenzene	Ave	0.7129	0.7309		5.13	5.00	2.5	30.0
Dibromofluoromethane (Surr)	Ave	0.2230	0.2248		10.1	10.0	0.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0451	0.0456		10.1	10.0	1.1	30.0
Toluene-d8 (Surr)	Ave	1.264	1.267		10.0	10.0	0.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5076	0.5153		10.2	10.0	1.5	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X20.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 12-Dec-2023 00:25:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0101546-021
 Misc. Info.: ICV
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist:
 Method: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 14-Dec-2023 10:50:38 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1690

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.830	1.817	0.013	99	327015	5.00	4.98	
5 Chloromethane	50	2.006	2.000	0.006	99	386012	5.00	4.69	
6 Vinyl chloride	62	2.116	2.110	0.006	98	374911	5.00	5.00	
7 Butadiene	39	2.122	2.110	0.012	94	344919	5.00	4.56	
9 Bromomethane	94	2.421	2.409	0.012	90	255734	5.00	4.94	
10 Chloroethane	64	2.482	2.470	0.012	100	212337	5.00	5.11	
11 Dichlorofluoromethane	67	2.714	2.701	0.013	97	518191	5.00	4.57	
12 Trichlorofluoromethane	101	2.775	2.762	0.012	98	422929	5.00	5.18	
13 Pentane	43	2.775	2.762	0.012	96	423122	5.00	4.90	
14 Ethyl ether	59	2.964	2.957	0.007	92	232093	4.99	5.22	
16 1,2-Dichloro-1,1,2-trifluoroethane	67	3.061	3.055	0.006	92	318648	5.00	4.94	
17 Acrolein	56	3.122	3.110	0.012	100	246340	37.5	40.7	
18 1,1-Dichloroethene	96	3.244	3.232	0.012	98	243802	5.00	5.29	
20 Acetone	43	3.274	3.268	0.006	100	454755	62.5	64.3	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.293	3.287	0.006	90	228382	5.00	4.71	
22 Iodomethane	142	3.415	3.409	0.007	98	463484	5.00	4.80	
24 Isopropyl alcohol	45	3.433	3.421	0.012	33	54658	37.5	34.6	
23 Ethyl bromide	108	3.445	3.433	0.012	98	208590	4.89	4.83	
25 Carbon disulfide	76	3.506	3.500	0.006	99	773565	5.00	4.82	
26 Methyl acetate	43	3.652	3.646	0.006	97	108741	5.00	4.54	
29 3-Chloro-1-propene	41	3.671	3.665	0.006	92	410271	5.00	4.75	
30 Methylene Chloride	84	3.841	3.829	0.012	93	271318	5.00	5.01	
* 31 t-Butyl alcohol-d10 (IS)	65	3.860	3.841	0.019	96	135137	50.0	50.0	M
32 2-Methyl-2-propanol	59	3.969	3.969	0.000	100	147067	50.0	48.0	
33 Acrylonitrile	53	4.164	4.152	0.012	99	277762	25.0	25.0	
35 trans-1,2-Dichloroethene	96	4.213	4.201	0.012	98	281813	5.00	5.13	
34 Methyl tert-butyl ether	73	4.213	4.207	0.006	90	716070	5.00	4.77	
36 Hexane	57	4.640	4.628	0.012	93	379199	5.00	5.10	
37 1,1-Dichloroethane	63	4.878	4.872	0.006	96	518738	5.00	5.15	
39 Isopropyl ether	45	4.945	4.933	0.012	94	911728	5.00	4.86	
40 2-Chloro-1,3-butadiene	53	4.987	4.975	0.012	91	423472	5.00	5.11	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Tert-butyl ethyl ether	59	5.481	5.481	0.000	98	890822	5.00	4.98	
42 2-Butanone (MEK)	43	5.695	5.682	0.013	100	938256	62.5	62.3	
43 cis-1,2-Dichloroethene	96	5.719	5.719	0.000	82	318271	5.00	5.14	
44 2,2-Dichloropropane	77	5.737	5.731	0.006	87	415417	5.00	4.97	
45 Propionitrile	54	5.798	5.780	0.018	98	138768	37.5	36.6	
47 Methacrylonitrile	67	5.999	5.999	0.000	93	584692	37.5	40.7	
48 Chlorobromomethane	128	6.054	6.048	0.006	93	146626	5.00	5.28	
49 Tetrahydrofuran	71	6.054	6.054	0.000	90	108407	25.0	25.0	
50 Chloroform	83	6.213	6.213	0.000	94	501291	5.00	4.90	
\$ 54 Dibromofluoromethane (Surr)	113	6.432	6.426	0.006	94	464441	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.438	6.432	0.006	97	454235	5.00	5.34	
55 Cyclohexane	56	6.530	6.530	0.000	92	477456	5.00	5.10	
56 Carbon tetrachloride	117	6.646	6.640	0.006	97	403647	5.00	5.39	
57 1,1-Dichloropropene	75	6.652	6.646	0.006	96	397114	5.00	5.21	
58 Isobutyl alcohol	41	6.841	6.841	0.000	92	131715	125.0	119.6	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.890	6.890	0.000	99	94274	10.0	10.1	
60 Benzene	78	6.920	6.914	0.006	97	1187045	5.00	5.06	
61 1,2-Dichloroethane	62	6.993	6.987	0.006	97	312347	5.00	4.95	
64 Tert-amyl methyl ether	73	7.127	7.121	0.006	98	798471	5.00	4.91	
* 65 Fluorobenzene (IS)	96	7.335	7.328	0.007	99	2065699	10.0	10.0	
66 n-Heptane	43	7.353	7.347	0.006	95	417124	5.00	5.26	
67 n-Butanol	56	7.749	7.743	0.006	89	238338	250.0	255.6	
68 Trichloroethene	95	7.816	7.816	0.000	97	310656	5.00	5.13	
69 Methylcyclohexane	83	8.127	8.127	0.000	91	516364	5.00	5.25	
70 1,2-Dichloropropane	63	8.164	8.158	0.006	97	309770	5.00	5.08	
71 2-ethoxy-2-methyl butane	87	8.188	8.182	0.006	93	457977	5.00	4.71	
74 1,4-Dioxane	88	8.261	8.261	0.000	29	25087	125.0	132.5	M
73 Methyl methacrylate	69	8.267	8.261	0.006	93	147544	5.00	5.08	
72 Dibromomethane	93	8.267	8.267	0.000	94	149564	5.00	5.04	
76 Dichlorobromomethane	83	8.517	8.517	0.000	99	366329	5.00	5.18	
77 2-Nitropropane	41	8.810	8.810	0.000	99	39362	5.00	4.80	
78 1-Bromo-2-chloroethane	63	8.914	8.914	0.000	99	320675	5.00	5.14	
80 cis-1,3-Dichloropropene	75	9.090	9.090	0.000	95	454570	5.00	4.91	
82 4-Methyl-2-pentanone (MIBK)	43	9.292	9.292	0.000	97	2439643	62.5	64.9	
\$ 83 Toluene-d8 (Surr)	98	9.420	9.413	0.007	93	2019953	10.0	10.0	
84 Toluene	92	9.499	9.499	0.000	98	783876	5.00	5.11	
85 trans-1,3-Dichloropropene	75	9.779	9.779	0.000	93	401582	5.00	5.10	
86 Ethyl methacrylate	69	9.858	9.858	0.000	90	328610	5.00	5.01	
87 1,1,2-Trichloroethane	97	9.993	9.993	0.000	90	218438	5.00	5.02	
88 Tetrachloroethene	166	10.072	10.072	0.000	98	377315	5.00	5.33	
89 1,3-Dichloropropane	76	10.163	10.163	0.000	91	379342	5.00	5.07	
106 2-Hexanone	43	10.230	10.230	0.000	97	1818333	62.5	65.7	
108 Chlorodibromomethane	129	10.383	10.383	0.000	90	281537	5.00	5.30	
110 Ethylene Dibromide	107	10.493	10.492	0.001	99	214192	5.00	5.07	
* 111 Chlorobenzene-d5 (IS)	117	10.950	10.944	0.006	85	1594445	10.0	10.0	
112 1-Chlorohexane	91	10.968	10.968	0.000	98	413323	5.00	4.84	
113 Chlorobenzene	112	10.974	10.974	0.000	96	921880	5.00	5.15	
115 Ethylbenzene	91	11.072	11.066	0.006	98	1552425	5.00	5.19	
114 1,1,1,2-Tetrachloroethane	131	11.066	11.066	0.000	96	324257	5.00	5.24	
116 m-Xylene & p-Xylene	106	11.188	11.187	0.001	97	1237693	10.0	10.3	
118 o-Xylene	106	11.529	11.529	0.000	96	615716	5.00	5.14	
119 Styrene	104	11.547	11.541	0.006	95	1031195	5.00	5.25	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 Bromoform	173	11.700	11.700	0.000	97	172413	5.00	5.19	
121 Isopropylbenzene	105	11.840	11.840	0.000	95	1622667	5.00	5.68	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.986	11.980	0.006	94	821671	10.0	10.2	
126 1,1,2,2-Tetrachloroethane	83	12.096	12.096	0.000	86	275430	5.00	4.97	
125 Bromobenzene	156	12.102	12.102	0.000	89	413630	5.00	5.05	
127 trans-1,4-Dichloro-2-butene	53	12.126	12.120	0.006	92	377694	25.0	25.2	
128 1,2,3-Trichloropropane	110	12.139	12.139	0.001	81	75939	5.00	5.03	
129 N-Propylbenzene	91	12.175	12.175	0.000	99	1889620	5.00	5.22	
130 2-Chlorotoluene	126	12.248	12.248	0.000	97	398448	5.00	5.06	
131 1,3,5-Trimethylbenzene	105	12.321	12.321	0.000	94	1388685	5.00	5.15	
132 4-Chlorotoluene	126	12.346	12.346	0.000	97	413190	5.00	5.01	
133 tert-Butylbenzene	134	12.565	12.565	0.000	93	321398	5.00	5.16	
134 Pentachloroethane	167	12.596	12.596	0.000	91	256134	5.00	5.35	
135 1,2,4-Trimethylbenzene	105	12.608	12.608	0.000	97	1425395	5.00	5.14	
136 sec-Butylbenzene	105	12.730	12.730	0.000	94	1795277	5.00	5.28	
137 1,3-Dichlorobenzene	146	12.827	12.827	0.000	98	831288	5.00	5.10	
138 4-Isopropyltoluene	119	12.846	12.846	0.000	97	1568776	5.00	5.11	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.882	0.000	94	955934	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.901	12.901	0.000	96	841841	5.00	5.09	
141 1,2,3-Trimethylbenzene	120	12.919	12.919	0.000	97	609305	5.00	4.78	
142 Benzyl chloride	126	12.986	12.986	0.000	98	109612	5.00	4.95	
145 p-Diethylbenzene	119	13.120	13.120	0.000	93	982269	5.00	5.18	
143 n-Butylbenzene	92	13.138	13.138	0.000	96	764829	5.00	5.15	
144 1,2-Dichlorobenzene	146	13.169	13.169	0.000	99	754044	5.00	5.07	
148 1,2-Dibromo-3-Chloropropane	155	13.724	13.717	0.007	89	37101	5.00	4.75	
149 1,3,5-Trichlorobenzene	180	13.846	13.845	0.001	98	612549	5.00	5.08	
150 1,2,4-Trichlorobenzene	180	14.272	14.272	0.000	94	486131	5.00	5.22	
151 Hexachlorobutadiene	225	14.364	14.364	0.000	96	269051	5.00	5.38	
152 Naphthalene	128	14.455	14.455	0.000	97	719867	5.00	5.22	
153 1,2,3-Trichlorobenzene	180	14.601	14.601	0.000	96	349365	5.00	5.13	
154 2-Methylnaphthalene	142	15.217	15.217	0.000	92	211520	5.00	5.70	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00143

Amount Added: 12.50

Units: uL

MSV_QC_Gas826_00173

Amount Added: 12.50

Units: uL

MSV_LCS_EE_00008

Amount Added: 12.50

Units: uL

LCS_ETBR_00007

Amount Added: 12.50

Units: uL

MSV_LCS_ACROL_00144

Amount Added: 12.50

Units: uL

MSV_LCS_Penta_00036

Amount Added: 12.50

Units: uL

MSV_29_826ISS_00052

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 16-Jan-2024 13:23:19

Chrom Revision: 2.3 30-Nov-2023 17:25:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X20.D

Injection Date: 12-Dec-2023 00:25:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: ICV

Worklist Smp#: 21

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

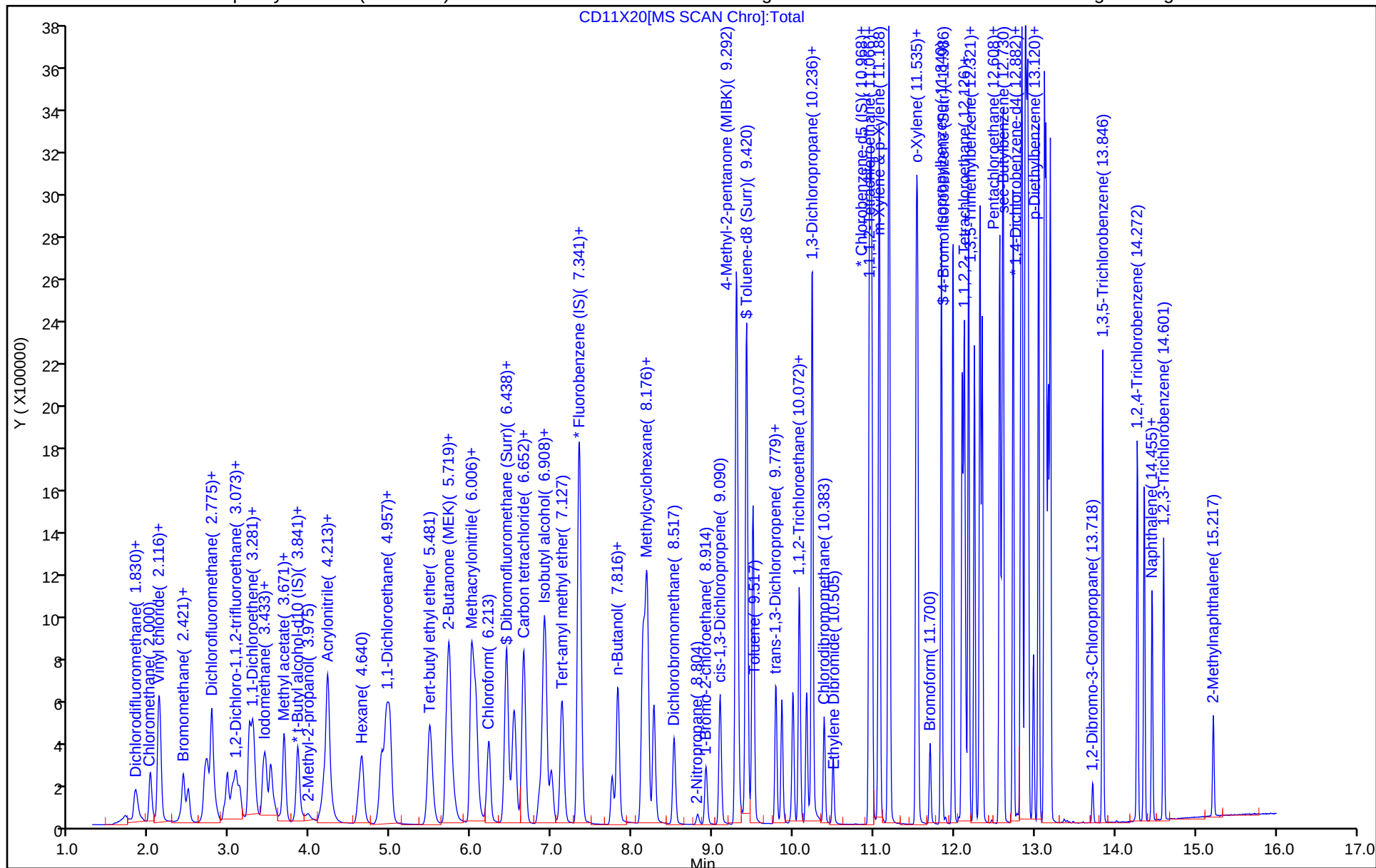
ALS Bottle#: 20

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

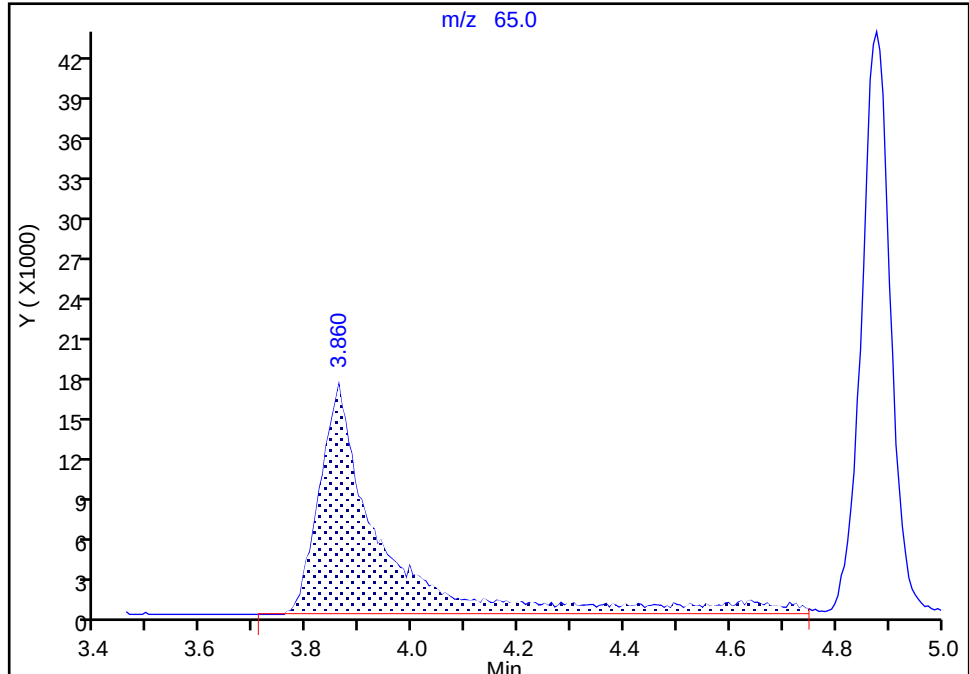
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Injection Date: 12-Dec-2023 00:25:30 Instrument ID: 10193
Lims ID: ICV
Client ID:
Operator ID: gaw91131 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 31 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

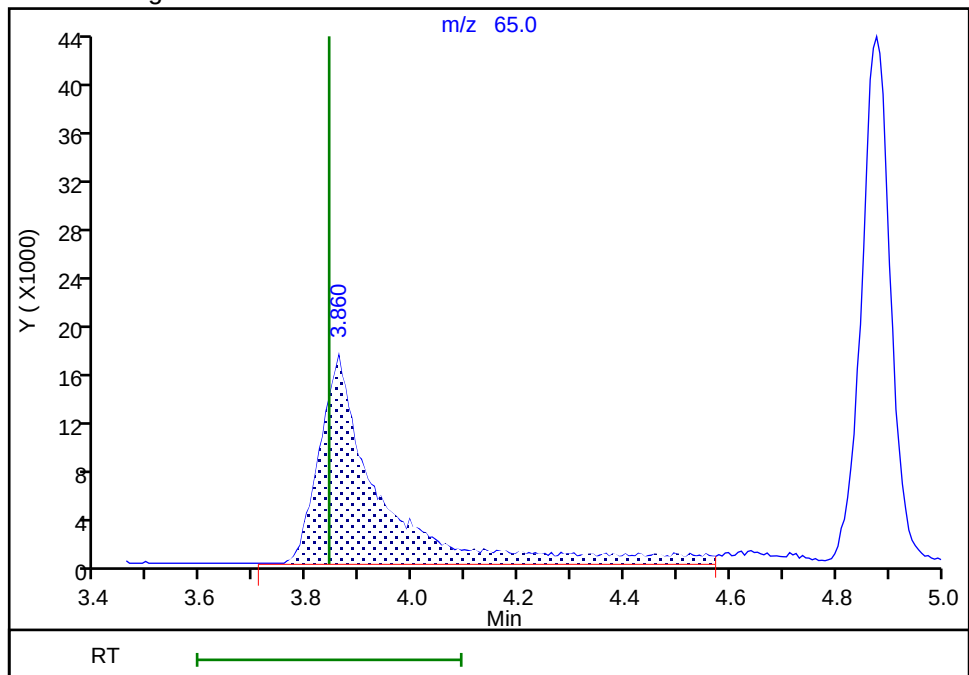
RT: 3.86
Area: 142733
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.86
Area: 135137
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 14-Dec-2023 10:38:13 -05:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC

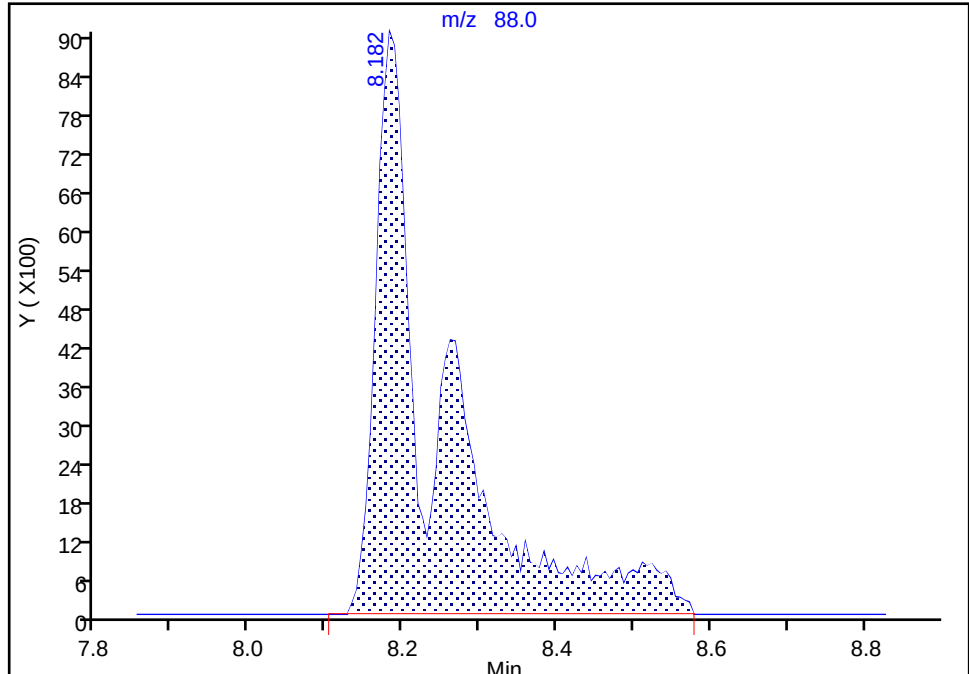
Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X20.D
Injection Date: 12-Dec-2023 00:25:30 Instrument ID: 10193
Lims ID: ICV
Client ID:
Operator ID: gaw91131 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

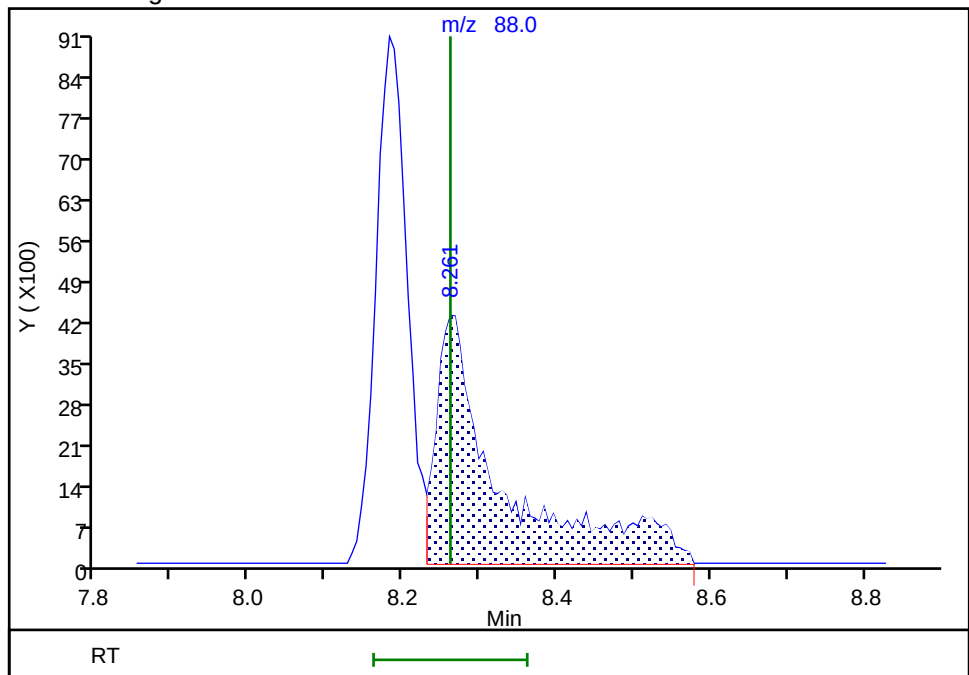
RT: 8.18
Area: 50225
Amount: 268.3509
Amount Units: ug/l

Processing Integration Results



RT: 8.26
Area: 25087
Amount: 132.4521
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 12-Dec-2023 11:12:17 -05:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Lab Sample ID: CCVIS 410-478337/3

Calibration Date: 02/29/2024 12:51

Instrument ID: 10193

Calib Start Date: 12/11/2023 21:27

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

Calib End Date: 12/11/2023 23:41

Lab File ID: CF29X02.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	0.3182	0.3168	0.1000	9.96	10.0	-0.4	20.0
Chloromethane	Ave	0.3985	0.3832	0.1000	9.62	10.0	-3.8	20.0
Vinyl chloride	Ave	0.3631	0.3519	0.1000	9.69	10.0	-3.1	20.0
1,3-Butadiene	Ave	0.3661	0.4212		11.5	10.0	15.1	20.0
Bromomethane	Ave	0.2506	0.2437	0.1000	9.73	10.0	-2.7	20.0
Chloroethane	Ave	0.2013	0.1923	0.1000	9.55	10.0	-4.5	20.0
Dichlorofluoromethane	Ave	0.5484	0.5155		9.40	10.0	-6.0	20.0
Trichlorofluoromethane	Ave	0.3950	0.4156	0.1000	10.5	10.0	5.2	20.0
Freon 123a	Ave	0.3125	0.2927		9.37	10.0	-6.3	20.0
Acrolein	Ave	2.241	2.139		477	500	-4.5	20.0
1,1-Dichloroethene	Ave	0.2231	0.2251	0.1000	10.1	10.0	0.9	20.0
Acetone	Ave	2.617	2.820	0.1000	108	100	7.7	20.0
Freon 113	Ave	0.2347	0.2438	0.1000	10.4	10.0	3.9	20.0
Methyl iodide	Ave	0.4675	0.4706		10.1	10.0	0.7	20.0
Carbon disulfide	Ave	0.7774	0.7945	0.1000	10.2	10.0	2.2	20.0
Methyl acetate	Ave	8.866	8.448	0.1000	9.53	10.0	-4.7	20.0
Allyl chloride	Ave	0.4181	0.4066		9.72	10.0	-2.8	20.0
Methylene Chloride	Ave	0.2621	0.2596	0.1000	9.91	10.0	-0.9	20.0
t-Butyl alcohol	Ave	1.133	1.005		177	200	-11.3	20.0
Acrylonitrile	Ave	4.115	4.131		25.1	25.0	0.4	20.0
Methyl tert-butyl ether	Ave	0.7272	0.6883	0.1000	9.47	10.0	-5.3	20.0
trans-1,2-Dichloroethene	Ave	0.2657	0.2696	0.1000	10.1	10.0	1.5	20.0
n-Hexane	Ave	0.3597	0.3861		10.7	10.0	7.3	20.0
1,1-Dichloroethane	Ave	0.4873	0.4786	0.2000	9.82	10.0	-1.8	20.0
di-Isopropyl ether	Ave	0.9088	0.8882		9.77	10.0	-2.3	20.0
2-Chloro-1,3-butadiene	Ave	0.4013	0.3910		9.74	10.0	-2.6	20.0
Ethyl t-butyl ether	Ave	0.8652	0.7952		9.19	10.0	-8.1	20.0
2-Butanone (MEK)	Ave	5.575	5.440	0.1000	97.6	100	-2.4	20.0
cis-1,2-Dichloroethene	Ave	0.2996	0.3017	0.1000	10.1	10.0	0.7	20.0
2,2-Dichloropropane	Ave	0.4045	0.3824		9.45	10.0	-5.5	20.0
Propionitrile	Ave	1.403	1.470		209	200	4.7	20.0
Methacrylonitrile	Ave	5.314	5.621		106	100	5.8	20.0
Bromochloromethane	Ave	0.1343	0.1384		10.3	10.0	3.0	20.0
Tetrahydrofuran	Ave	1.604	1.580		49.3	50.0	-1.5	20.0
Chloroform	Ave	0.4954	0.4716	0.2000	9.52	10.0	-4.8	20.0
1,1,1-Trichloroethane	Ave	0.4118	0.4028	0.1000	9.78	10.0	-2.2	20.0
Cyclohexane	Ave	0.4535	0.4678	0.1000	10.3	10.0	3.2	20.0
Carbon tetrachloride	Ave	0.3625	0.3697	0.1000	10.2	10.0	2.0	20.0
1,1-Dichloropropene	Ave	0.3693	0.3734		10.1	10.0	1.1	20.0
Isobutyl alcohol	Ave	0.4074	0.3748		460	500	-8.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Lab Sample ID: CCVIS 410-478337/3

Calibration Date: 02/29/2024 12:51

Instrument ID: 10193

Calib Start Date: 12/11/2023 21:27

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

Calib End Date: 12/11/2023 23:41

Lab File ID: CF29X02.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
Benzene	Ave	1.135	1.137	0.5000	10.0	10.0	0.2	20.0
1,2-Dichloroethane	Ave	0.3053	0.2921	0.1000	9.57	10.0	-4.3	20.0
t-Amyl methyl ether	Ave	0.7865	0.7431		9.45	10.0	-5.5	20.0
n-Heptane	Ave	0.3839	0.4173		10.9	10.0	8.7	20.0
n-Butanol	Ave	0.3450	0.3465		879	875	0.4	20.0
Trichloroethene	Ave	0.2934	0.2970	0.2000	10.1	10.0	1.2	20.0
Methylcyclohexane	Ave	0.4759	0.5143	0.1000	10.8	10.0	8.1	20.0
1,2-Dichloropropane	Ave	0.2950	0.2986	0.1000	10.1	10.0	1.2	20.0
1,4-Dioxane	Ave	0.0701	0.0829	0.0050	591	500	18.3	20.0
Methyl methacrylate	Ave	10.75	10.88		10.1	10.0	1.2	20.0
Dibromomethane	Ave	0.1436	0.1415		9.85	10.0	-1.5	20.0
Bromodichloromethane	Ave	0.3426	0.3414	0.2000	9.97	10.0	-0.3	20.0
2-Nitropropane	Ave	3.031	2.738		45.2	50.0	-9.7	20.0
cis-1,3-Dichloropropene	Ave	0.4478	0.4550	0.2000	10.2	10.0	1.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	13.91	14.63	0.1000	105	100	5.2	20.0
Toluene	Ave	0.9615	0.9764	0.4000	10.2	10.0	1.6	20.0
trans-1,3-Dichloropropene	Ave	0.4941	0.4985	0.1000	10.1	10.0	0.9	20.0
Ethyl methacrylate	Ave	0.4116	0.4038		9.81	10.0	-1.9	20.0
1,1,2-Trichloroethane	Ave	0.2731	0.2688	0.1000	9.84	10.0	-1.6	20.0
Tetrachloroethene	Ave	0.4436	0.4690	0.2000	10.6	10.0	5.7	20.0
1,3-Dichloropropane	Ave	0.4691	0.4667		9.95	10.0	-0.5	20.0
2-Hexanone	Ave	10.24	10.82	0.1000	106	100	5.7	20.0
Dibromochloromethane	Ave	0.3331	0.3551		10.7	10.0	6.6	20.0
1,2-Dibromoethane (EDB)	Ave	0.2651	0.2668	0.1000	10.1	10.0	0.6	20.0
1-Chlorohexane	Ave	0.5356	0.5333		9.96	10.0	-0.4	20.0
Chlorobenzene	Ave	1.123	1.157	0.5000	10.3	10.0	3.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3881	0.4029		10.4	10.0	3.8	20.0
Ethylbenzene	Ave	1.877	1.900	0.1000	10.1	10.0	1.2	20.0
m&p-Xylene	Ave	0.7548	0.7785	0.1000	20.6	20.0	3.1	20.0
o-Xylene	Ave	0.7520	0.7677	0.3000	10.2	10.0	2.1	20.0
Styrene	Ave	1.233	1.283	0.3000	10.4	10.0	4.1	20.0
Bromoform	Ave	0.2084	0.2222	0.1000	10.7	10.0	6.6	20.0
Isopropylbenzene	Ave	1.790	1.842	0.1000	10.3	10.0	2.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5797	0.5739	0.3000	9.90	10.0	-1.0	20.0
Bromobenzene	Ave	0.8566	0.8627		10.1	10.0	0.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1566	0.1312		83.7	100	-16.3	20.0
1,2,3-Trichloropropane	Ave	0.1578	0.1530		9.70	10.0	-3.0	20.0
N-Propylbenzene	Ave	3.786	3.799		10.0	10.0	0.3	20.0
2-Chlorotoluene	Ave	0.8239	0.8241		10.0	10.0	0.0	20.0
1,3,5-Trimethylbenzene	Ave	2.821	2.821		10.0	10.0	-0.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Lab Sample ID: CCVIS 410-478337/3

Calibration Date: 02/29/2024 12:51

Instrument ID: 10193

Calib Start Date: 12/11/2023 21:27

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

Calib End Date: 12/11/2023 23:41

Lab File ID: CF29X02.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
4-Chlorotoluene	Ave	0.8634	0.8681		10.1	10.0	0.5	20.0
tert-Butylbenzene	Ave	0.6521	0.6686		10.3	10.0	2.5	20.0
Pentachloroethane	Ave	0.5010	0.5359		10.7	10.0	7.0	20.0
1,2,4-Trimethylbenzene	Ave	2.903	2.927		10.1	10.0	0.8	20.0
sec-Butylbenzene	Ave	3.556	3.658		10.3	10.0	2.9	20.0
1,3-Dichlorobenzene	Ave	1.705	1.715	0.6000	10.1	10.0	0.6	20.0
p-Isopropyltoluene	Ave	3.210	3.309		10.3	10.0	3.1	20.0
1,4-Dichlorobenzene	Ave	1.730	1.737	0.5000	10.0	10.0	0.4	20.0
1,2,3-Trimethylbenzene	Ave	1.334	1.353		10.1	10.0	1.4	20.0
Benzyl chloride	Ave	0.2318	0.2739		11.8	10.0	18.2	20.0
n-Butylbenzene	Ave	1.553	1.613		10.4	10.0	3.8	20.0
1,2-Dichlorobenzene	Ave	1.556	1.577	0.4000	10.1	10.0	1.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0817	0.0864	0.0500	10.6	10.0	5.8	20.0
1,3,5-Trichlorobenzene	Ave	1.262	1.317		10.4	10.0	4.3	20.0
1,2,4-Trichlorobenzene	Ave	0.9748	1.048	0.2000	10.8	10.0	7.5	20.0
Hexachlorobutadiene	Ave	0.5229	0.5485		10.5	10.0	4.9	20.0
Naphthalene	Ave	1.444	1.574		10.9	10.0	9.0	20.0
1,2,3-Trichlorobenzene	Ave	0.7129	0.7660		10.7	10.0	7.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2230	0.2332		10.5	10.0	4.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0451	0.0486		10.8	10.0	7.8	20.0
Toluene-d8 (Surr)	Ave	1.264	1.316		10.4	10.0	4.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5076	0.4771		9.40	10.0	-6.0	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X02.D
 Lims ID: CCVIS VSTD10
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 29-Feb-2024 12:51:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107545-003
 Misc. Info.: CCVIS
 Operator ID: knk41612 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub54
 Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 29-Feb-2024 14:54:22 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1632

First Level Reviewer: DVW2

Date: 29-Feb-2024 13:36:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.823	1.823	0.000	99	731126	10.0	9.96	
5 Chloromethane	50	2.006	2.006	0.000	99	884493	10.0	9.62	
6 Vinyl chloride	62	2.110	2.110	0.000	98	812101	10.0	9.69	
7 Butadiene	39	2.116	2.116	0.000	92	972115	10.0	11.5	
9 Bromomethane	94	2.408	2.408	0.000	90	562462	10.0	9.73	
10 Chloroethane	64	2.476	2.476	0.000	100	443928	10.0	9.55	
11 Dichlorofluoromethane	67	2.701	2.701	0.000	97	1189732	10.0	9.40	
12 Trichlorofluoromethane	101	2.762	2.762	0.000	98	959143	10.0	10.5	
13 Pentane	43	2.774	2.774	0.000	96	987853	10.0	10.2	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.061	3.061	0.000	91	675482	10.0	9.37	
17 Acrolein	56	3.122	3.122	0.000	100	3129498	500.0	477.3	
18 1,1-Dichloroethene	96	3.238	3.238	0.000	98	519433	10.0	10.1	
20 Acetone	43	3.268	3.268	0.000	100	825063	100.0	107.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.286	3.286	0.000	89	562716	10.0	10.4	
22 Iodomethane	142	3.414	3.414	0.000	97	1086139	10.0	10.1	
24 Isopropyl alcohol	45	3.420	3.420	0.000	96	346564	200.0	202.7	
25 Carbon disulfide	76	3.506	3.506	0.000	99	1833716	10.0	10.2	
26 Methyl acetate	43	3.652	3.652	0.000	97	247218	10.0	9.53	M
29 3-Chloro-1-propene	41	3.670	3.670	0.000	94	938431	10.0	9.72	
30 Methylene Chloride	84	3.841	3.841	0.000	92	599221	10.0	9.91	
* 31 t-Butyl alcohol-d10 (IS)	65	3.847	3.847	0.000	42	146313	50.0	50.0	M
32 2-Methyl-2-propanol	59	3.963	3.963	0.000	100	588204	200.0	177.5	
33 Acrylonitrile	53	4.152	4.152	0.000	99	302193	25.0	25.1	
34 Methyl tert-butyl ether	73	4.201	4.201	0.000	94	1588671	10.0	9.47	
35 trans-1,2-Dichloroethene	96	4.213	4.213	0.000	100	622242	10.0	10.1	
36 Hexane	57	4.634	4.634	0.000	92	891108	10.0	10.7	
37 1,1-Dichloroethane	63	4.871	4.871	0.000	96	1104676	10.0	9.82	
39 Isopropyl ether	45	4.932	4.932	0.000	94	2049973	10.0	9.77	
40 2-Chloro-1,3-butadiene	53	4.981	4.981	0.000	89	902516	10.0	9.74	
41 Tert-butyl ethyl ether	59	5.475	5.475	0.000	97	1835225	10.0	9.19	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 2-Butanone (MEK)	43	5.688	5.688	0.000	99	1591898	100.0	97.6	
43 cis-1,2-Dichloroethene	96	5.719	5.719	0.000	81	696416	10.0	10.1	
44 2,2-Dichloropropane	77	5.731	5.731	0.000	87	882572	10.0	9.45	
45 Propionitrile	54	5.780	5.780	0.000	99	860113	200.0	209.4	
47 Methacrylonitrile	67	6.011	6.011	0.000	92	1644814	100.0	105.8	
48 Chlorobromomethane	128	6.048	6.048	0.000	92	319396	10.0	10.3	
49 Tetrahydrofuran	71	6.060	6.060	0.000	88	231217	50.0	49.3	
50 Chloroform	83	6.213	6.213	0.000	93	1088393	10.0	9.52	
\$ 54 Dibromofluoromethane (Surr)	113	6.432	6.432	0.000	94	538102	10.0	10.5	
53 1,1,1-Trichloroethane	97	6.432	6.432	0.000	98	929745	10.0	9.78	
55 Cyclohexane	56	6.530	6.530	0.000	90	1079675	10.0	10.3	
56 Carbon tetrachloride	117	6.639	6.639	0.000	95	853326	10.0	10.2	
57 1,1-Dichloropropene	75	6.652	6.652	0.000	97	861865	10.0	10.1	
58 Isobutyl alcohol	41	6.834	6.834	0.000	95	548389	500.0	460.0	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.889	6.889	0.000	99	112268	10.0	10.8	
60 Benzene	78	6.920	6.920	0.000	96	2624991	10.0	10.0	
61 1,2-Dichloroethane	62	6.999	6.999	0.000	97	674155	10.0	9.57	
64 Tert-amyl methyl ether	73	7.121	7.121	0.000	99	1715137	10.0	9.45	
* 65 Fluorobenzene (IS)	96	7.334	7.334	0.000	99	2307944	10.0	10.0	
66 n-Heptane	43	7.353	7.353	0.000	91	963036	10.0	10.9	
67 n-Butanol	56	7.737	7.737	0.000	88	887309	875.0	878.9	
68 Trichloroethene	95	7.822	7.822	0.000	96	685471	10.0	10.1	
69 Methylcyclohexane	83	8.127	8.127	0.000	90	1186871	10.0	10.8	
70 1,2-Dichloropropane	63	8.157	8.157	0.000	98	689134	10.0	10.1	
71 2-ethoxy-2-methyl butane	87	8.182	8.182	0.000	94	1069312	10.0	9.84	
74 1,4-Dioxane	88	8.255	8.255	0.000	36	121278	500.0	591.4	
73 Methyl methacrylate	69	8.261	8.261	0.000	92	318334	10.0	10.1	
72 Dibromomethane	93	8.267	8.267	0.000	93	326519	10.0	9.85	
76 Dichlorobromomethane	83	8.517	8.517	0.000	99	788013	10.0	9.97	
77 2-Nitropropane	41	8.804	8.804	0.000	97	400653	50.0	45.2	
80 cis-1,3-Dichloropropene	75	9.090	9.090	0.000	97	1050157	10.0	10.2	
82 4-Methyl-2-pentanone (MIBK)	43	9.291	9.291	0.000	96	4279925	100.0	105.2	
\$ 83 Toluene-d8 (Surr)	98	9.419	9.419	0.000	93	2352091	10.0	10.4	
84 Toluene	92	9.499	9.499	0.000	98	1745475	10.0	10.2	
85 trans-1,3-Dichloropropene	75	9.779	9.779	0.000	91	891227	10.0	10.1	
86 Ethyl methacrylate	69	9.852	9.852	0.000	90	721795	10.0	9.81	
87 1,1,2-Trichloroethane	97	9.992	9.992	0.000	90	480590	10.0	9.84	
88 Tetrachloroethene	166	10.072	10.072	0.000	97	838499	10.0	10.6	
89 1,3-Dichloropropane	76	10.163	10.163	0.000	90	834320	10.0	9.95	
106 2-Hexanone	43	10.230	10.230	0.000	96	3165997	100.0	105.7	
108 Chlorodibromomethane	129	10.383	10.383	0.000	90	634806	10.0	10.7	
110 Ethylene Dibromide	107	10.492	10.492	0.000	97	476997	10.0	10.1	
* 111 Chlorobenzene-d5 (IS)	117	10.943	10.943	0.000	84	1787724	10.0	10.0	
112 1-Chlorohexane	91	10.962	10.962	0.000	98	953373	10.0	9.96	
113 Chlorobenzene	112	10.974	10.974	0.000	97	2067564	10.0	10.3	
114 1,1,1,2-Tetrachloroethane	131	11.059	11.059	0.000	96	720279	10.0	10.4	
115 Ethylbenzene	91	11.065	11.065	0.000	98	3396533	10.0	10.1	
116 m-Xylene & p-Xylene	106	11.187	11.187	0.000	97	2783567	20.0	20.6	
118 o-Xylene	106	11.523	11.523	0.000	96	1372494	10.0	10.2	
119 Styrene	104	11.541	11.541	0.000	95	2293500	10.0	10.4	
120 Bromoform	173	11.693	11.693	0.000	98	397175	10.0	10.7	
121 Isopropylbenzene	105	11.833	11.833	0.000	95	3293692	10.0	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	95	852844	10.0	9.40	
126 1,1,2,2-Tetrachloroethane	83	12.090	12.090	0.000	74	616932	10.0	9.90	
125 Bromobenzene	156	12.096	12.096	0.000	88	927366	10.0	10.1	
127 trans-1,4-Dichloro-2-butene	53	12.120	12.120	0.000	92	1409899	100.0	83.7	
128 1,2,3-Trichloropropane	110	12.138	12.138	0.000	80	164500	10.0	9.70	
129 N-Propylbenzene	91	12.175	12.175	0.000	98	4083430	10.0	10.0	
130 2-Chlorotoluene	126	12.248	12.248	0.000	98	885915	10.0	10.0	
131 1,3,5-Trimethylbenzene	105	12.315	12.315	0.000	94	3032217	10.0	10.0	
132 4-Chlorotoluene	126	12.339	12.339	0.000	97	933193	10.0	10.1	
133 tert-Butylbenzene	134	12.559	12.559	0.000	92	718701	10.0	10.3	
134 Pentachloroethane	167	12.589	12.589	0.000	93	576068	10.0	10.7	
135 1,2,4-Trimethylbenzene	105	12.602	12.602	0.000	96	3146055	10.0	10.1	
136 sec-Butylbenzene	105	12.730	12.730	0.000	93	3932026	10.0	10.3	
137 1,3-Dichlorobenzene	146	12.821	12.821	0.000	98	1843650	10.0	10.1	
138 4-Isopropyltoluene	119	12.839	12.839	0.000	97	3556994	10.0	10.3	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.882	0.000	92	1075002	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.900	12.900	0.000	95	1866747	10.0	10.0	
141 1,2,3-Trimethylbenzene	120	12.913	12.913	0.000	98	1454189	10.0	10.1	
142 Benzyl chloride	126	12.980	12.980	0.000	98	294490	10.0	11.8	
145 p-Diethylbenzene	119	13.114	13.114	0.000	94	2199552	10.0	10.3	
143 n-Butylbenzene	92	13.138	13.138	0.000	97	1734155	10.0	10.4	
144 1,2-Dichlorobenzene	146	13.162	13.162	0.000	99	1695673	10.0	10.1	
148 1,2-Dibromo-3-Chloropropane	155	13.717	13.717	0.000	90	92884	10.0	10.6	
149 1,3,5-Trichlorobenzene	180	13.839	13.839	0.000	98	1415591	10.0	10.4	
150 1,2,4-Trichlorobenzene	180	14.272	14.272	0.000	94	1126814	10.0	10.8	
151 Hexachlorobutadiene	225	14.357	14.357	0.000	96	589670	10.0	10.5	
152 Naphthalene	128	14.455	14.455	0.000	96	1691916	10.0	10.9	
153 1,2,3-Trichlorobenzene	180	14.601	14.601	0.000	96	823400	10.0	10.7	
154 2-Methylnaphthalene	142	15.217	15.217	0.000	92	427812	10.0	10.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00118

Amount Added: 20.00

Units: uL

MSV_LL_#2_524_00077

Amount Added: 20.00

Units: uL

MSV_LL_GAS826_00195

Amount Added: 20.00

Units: uL

MSV_HP25_ISSS_00084

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 29-Feb-2024 14:54:24

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X02.D

Injection Date: 29-Feb-2024 12:51:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: CCVIS VSTD10

Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

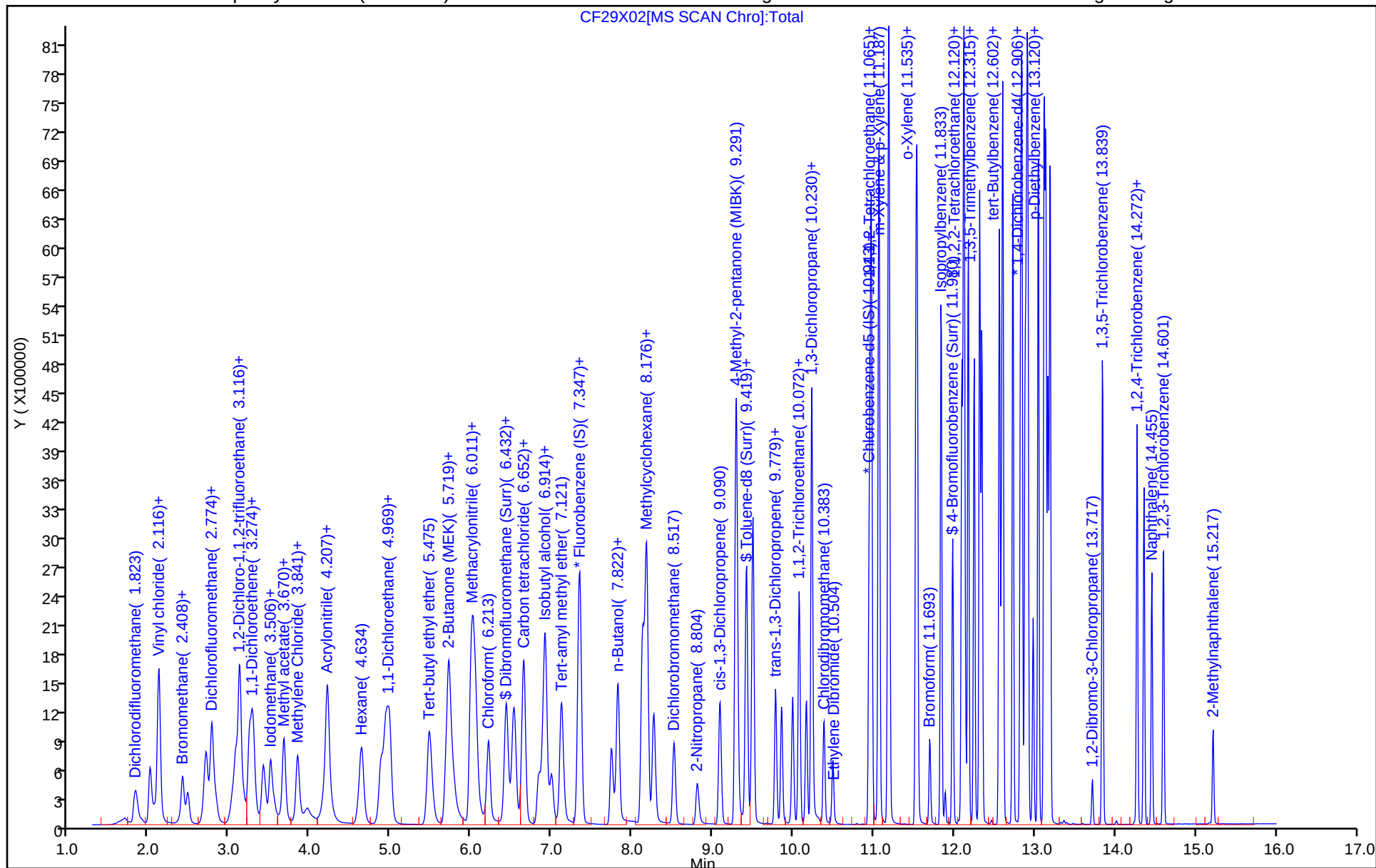
ALS Bottle#: 2

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

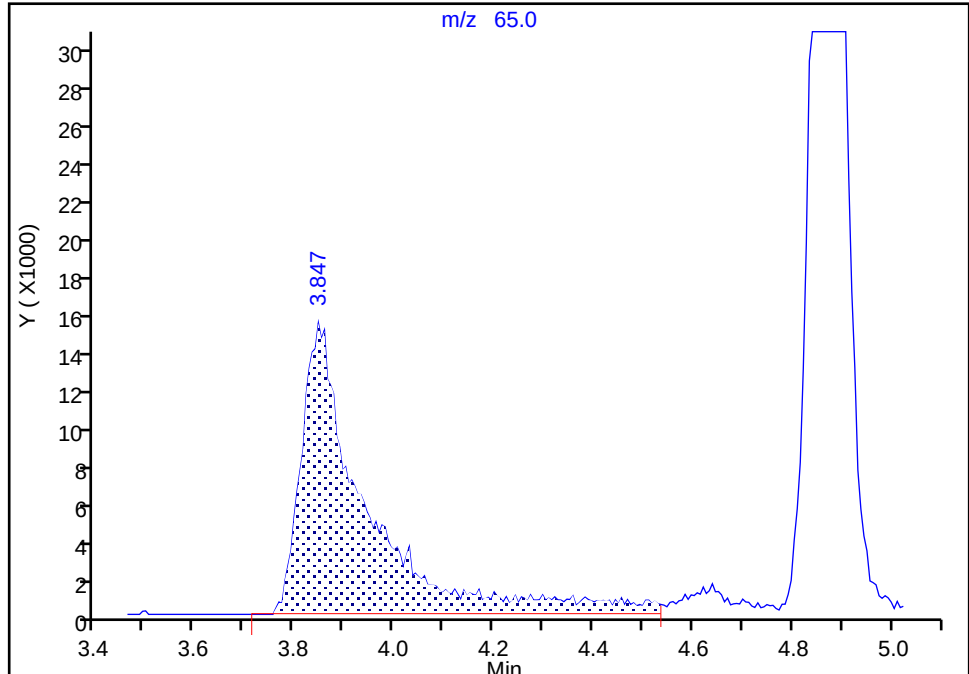
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Injection Date: 29-Feb-2024 12:51:30 Instrument ID: 10193
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 31 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

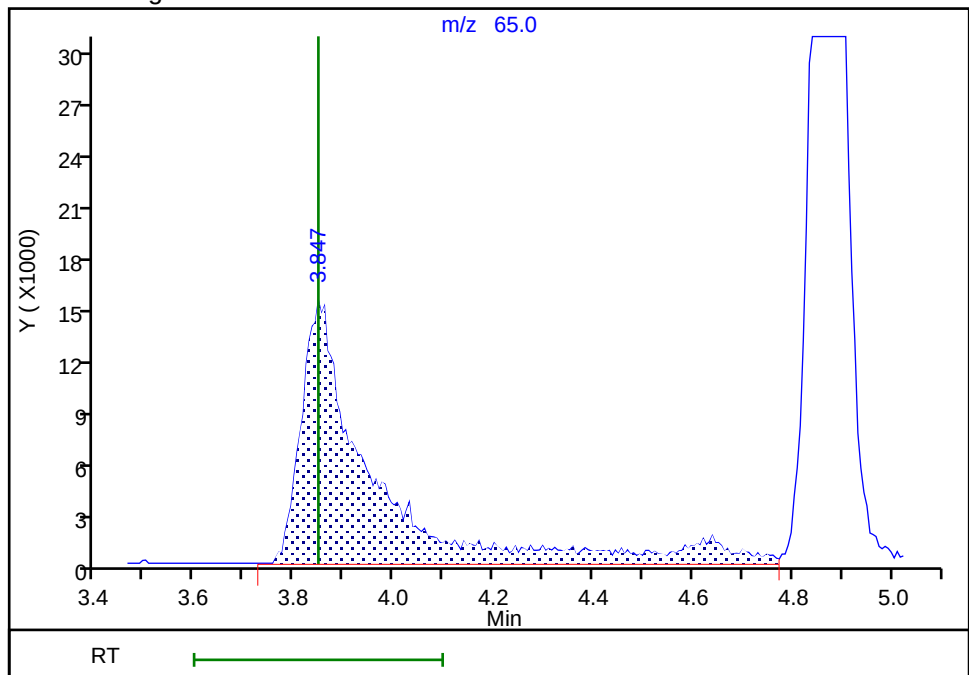
RT: 3.85
Area: 135923
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.85
Area: 146313
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 29-Feb-2024 13:15:11 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

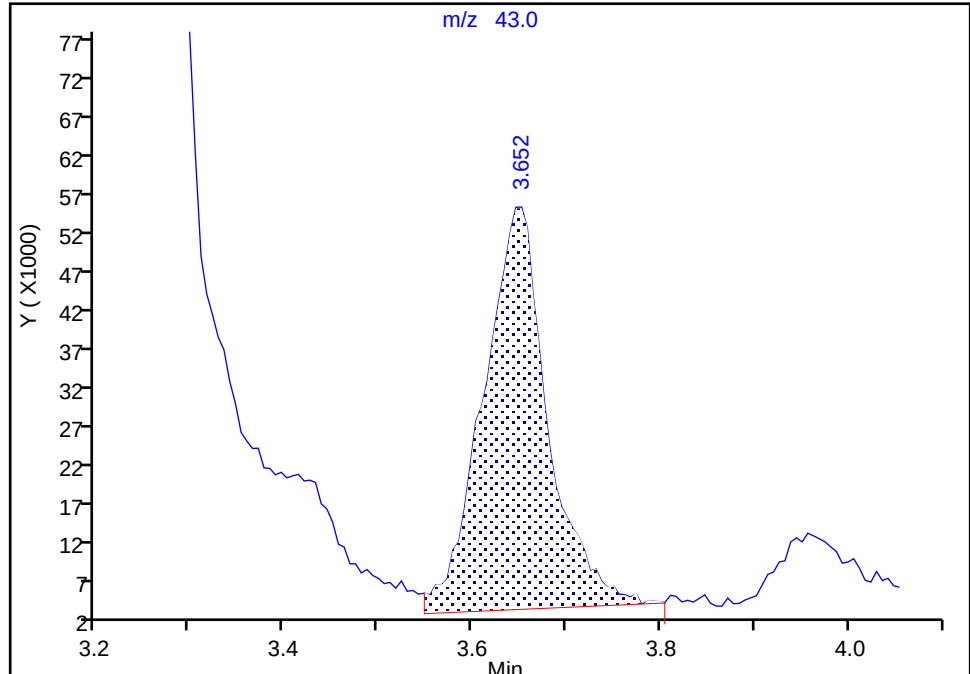
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Injection Date: 29-Feb-2024 12:51:30 Instrument ID: 10193
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

26 Methyl acetate, CAS: 79-20-9

Signal: 1

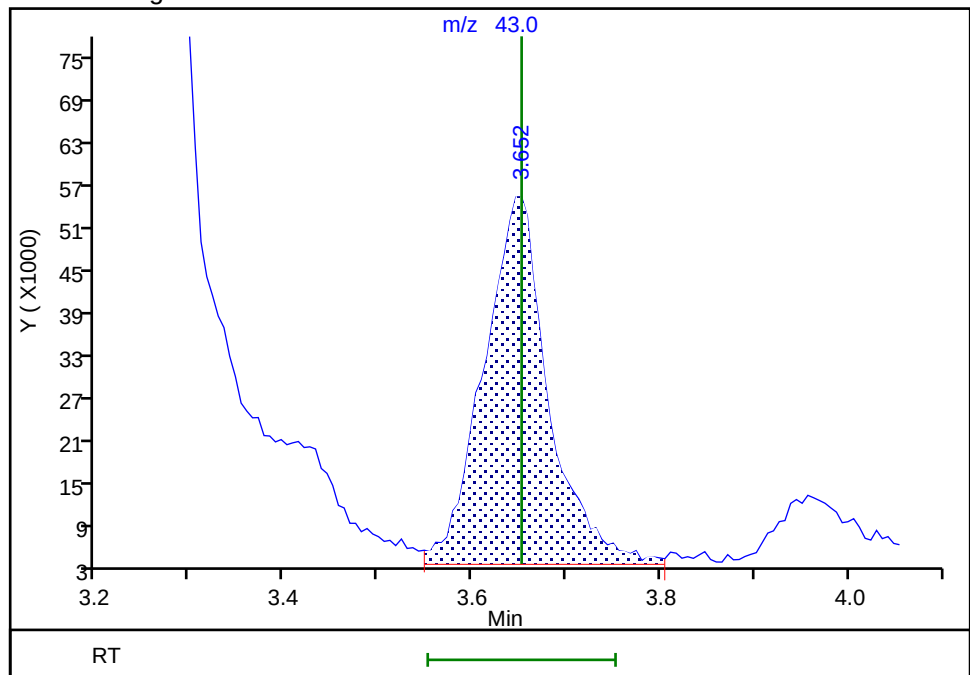
RT: 3.65
Area: 249357
Amount: 10.345798
Amount Units: ug/l

Processing Integration Results



RT: 3.65
Area: 247218
Amount: 9.528676
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 29-Feb-2024 13:14:54 -05:00:00 (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.: 410-161790-1

SDG No.:

Lab Sample ID: ICV 410-431955/21

Calibration Date: 10/17/2023 10:24

Instrument ID: 19094

Calib Start Date: 10/17/2023 07:43

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

Calib End Date: 10/17/2023 09:43

Lab File ID: HO16X20.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	0.2955	0.3108	0.1000	5.26	5.00	5.2	30.0
Chloromethane	Ave	0.3245	0.3193	0.1000	4.92	5.00	-1.6	30.0
Vinyl chloride	Ave	0.3113	0.3147	0.1000	5.06	5.00	1.1	30.0
1,3-Butadiene	Ave	0.3376	0.2805		4.15	5.00	-16.9	30.0
Bromomethane	Ave	0.2216	0.2261	0.1000	5.10	5.00	2.0	30.0
Chloroethane	Ave	0.1797	0.1894	0.1000	5.27	5.00	5.4	30.0
Dichlorofluoromethane	Ave	0.4969	0.4666		4.70	5.00	-6.1	30.0
Trichlorofluoromethane	Ave	0.3725	0.3874	0.1000	5.20	5.00	4.0	30.0
Ethyl ether	Ave	0.1719	0.1508		4.39	5.01	-12.2	30.0
Freon 123a	Ave	0.2673	0.2806		5.25	5.00	5.0	30.0
Acrolein	Ave	2.449	2.355		36.1	37.5	-3.9	30.0
1,1-Dichloroethene	Ave	0.2090	0.2143	0.1000	5.13	5.00	2.5	30.0
Acetone	Ave	3.026	2.943	0.1000	60.8	62.5	-2.7	30.0
Freon 113	Ave	0.1923	0.1888	0.1000	4.91	5.00	-1.8	30.0
Methyl iodide	Ave	0.4129	0.4141		5.01	5.00	0.3	30.0
Ethyl bromide	Ave	0.1871	0.1916		5.18	5.06	2.4	30.0
Carbon disulfide	Ave	0.5820	0.5723	0.1000	4.92	5.00	-1.7	30.0
Methyl acetate	Ave	8.821	7.330	0.1000	4.15	5.00	-16.9	30.0
Allyl chloride	Ave	0.3497	0.3339		4.77	5.00	-4.5	30.0
Methylene Chloride	Ave	0.2218	0.2238	0.1000	5.04	5.00	0.9	30.0
t-Butyl alcohol	Ave	0.8959	0.8349		46.6	50.0	-6.8	30.0
Acrylonitrile	Ave	3.950	4.109		26.0	25.0	4.0	30.0
Methyl tert-butyl ether	Ave	0.5270	0.5167	0.1000	4.90	5.00	-2.0	30.0
trans-1,2-Dichloroethene	Ave	0.2375	0.2434	0.1000	5.12	5.00	2.5	30.0
n-Hexane	Ave	0.2577	0.2671		5.18	5.00	3.6	30.0
1,1-Dichloroethane	Ave	0.4229	0.4599	0.2000	5.44	5.00	8.7	30.0
di-Isopropyl ether	Ave	0.6967	0.6952		4.99	5.00	-0.2	30.0
2-Chloro-1,3-butadiene	Ave	0.3824	0.3935		5.15	5.00	2.9	30.0
Ethyl t-butyl ether	Ave	0.6856	0.6875		5.01	5.00	0.3	30.0
2-Butanone (MEK)	Ave	4.948	5.346	0.1000	67.5	62.5	8.1	30.0
cis-1,2-Dichloroethene	Ave	0.2665	0.2728	0.1000	5.12	5.00	2.4	30.0
2,2-Dichloropropane	Ave	0.3921	0.4153		5.30	5.00	5.9	30.0
Propionitrile	Ave	1.378	1.122		30.5	37.5	-18.5	30.0
Methacrylonitrile	Ave	5.500	5.707		38.9	37.5	3.7	30.0
Bromochloromethane	Ave	0.1065	0.1157		5.43	5.00	8.7	30.0
Tetrahydrofuran	Ave	1.587	1.429		22.5	25.0	-10.0	30.0
Chloroform	Ave	0.4355	0.4581	0.2000	5.26	5.00	5.2	30.0
1,1,1-Trichloroethane	Ave	0.4085	0.4327	0.1000	5.30	5.00	5.9	30.0
Cyclohexane	Ave	0.3708	0.3650	0.1000	4.92	5.00	-1.6	30.0
Carbon tetrachloride	Ave	0.3419	0.3806	0.1000	5.57	5.00	11.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Lab Sample ID: ICV 410-431955/21

Calibration Date: 10/17/2023 10:24

Instrument ID: 19094

Calib Start Date: 10/17/2023 07:43

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

Calib End Date: 10/17/2023 09:43

Lab File ID: HO16X20.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	0.3288	0.3556		5.41	5.00	8.2	30.0
Isobutyl alcohol	Ave	0.2834	0.2954		130	125	4.2	30.0
Benzene	Ave	0.9541	1.009	0.5000	5.29	5.00	5.7	30.0
1,2-Dichloroethane	Ave	0.2779	0.2864	0.1000	5.15	5.00	3.1	30.0
t-Amyl methyl ether	Ave	0.5813	0.5845		5.03	5.00	0.6	30.0
n-Heptane	Ave	0.2544	0.2715		5.34	5.00	6.7	30.0
n-Butanol	Ave	0.2257	0.2236		248	250	-0.9	30.0
Trichloroethene	Ave	0.2692	0.2784	0.2000	5.17	5.00	3.4	30.0
Methylcyclohexane	Ave	0.3647	0.3844	0.1000	5.27	5.00	5.4	30.0
1,2-Dichloropropane	Ave	0.2347	0.2514	0.1000	5.36	5.00	7.1	30.0
Methyl methacrylate	Ave	11.30	11.40		5.05	5.00	0.9	30.0
1,4-Dioxane	Lin2		0.0696	0.0050	243	125	94.4*	30.0
Dibromomethane	Ave	0.1137	0.1206		5.31	5.00	6.1	30.0
Bromodichloromethane	Ave	0.3129	0.3305	0.2000	5.28	5.00	5.6	30.0
2-Nitropropane	Ave	3.830	3.969		5.18	5.00	3.6	30.0
1-Bromo-2-chloroethane	Ave	0.2305	0.2292		4.97	5.00	-0.6	30.0
cis-1,3-Dichloropropene	Ave	0.3641	0.3685	0.2000	5.06	5.00	1.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	13.94	14.20	0.1000	63.7	62.5	1.9	30.0
Toluene	Ave	0.8259	0.8779	0.4000	5.31	5.00	6.3	30.0
trans-1,3-Dichloropropene	Ave	0.3969	0.4134	0.1000	5.21	5.00	4.2	30.0
Ethyl methacrylate	Ave	0.2946	0.2979		5.06	5.00	1.1	30.0
1,1,2-Trichloroethane	Ave	0.2079	0.2159	0.1000	5.19	5.00	3.8	30.0
Tetrachloroethene	Ave	0.3946	0.4282	0.2000	5.43	5.00	8.5	30.0
1,3-Dichloropropane	Ave	0.3562	0.3711		5.21	5.00	4.2	30.0
2-Hexanone	Ave	9.279	9.657	0.1000	65.0	62.5	4.1	30.0
Dibromochloromethane	Ave	0.2773	0.2964		5.34	5.00	6.9	30.0
1,2-Dibromoethane (EDB)	Ave	0.2005	0.2087	0.1000	5.20	5.00	4.1	30.0
1-Chlorohexane	Ave	0.4716	0.4671		4.95	5.00	-1.0	30.0
Chlorobenzene	Ave	0.9001	0.9628	0.5000	5.35	5.00	7.0	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3281	0.3532		5.38	5.00	7.7	30.0
Ethylbenzene	Ave	1.609	1.728	0.1000	5.37	5.00	7.4	30.0
m&p-Xylene	Ave	0.6214	0.6698	0.1000	10.8	10.0	7.8	30.0
o-Xylene	Ave	0.6094	0.6474	0.3000	5.31	5.00	6.2	30.0
Styrene	Ave	0.9854	1.059	0.3000	5.38	5.00	7.5	30.0
Bromoform	Ave	0.1748	0.1778	0.1000	5.09	5.00	1.7	30.0
Isopropylbenzene	Ave	1.495	1.740	0.1000	5.82	5.00	16.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4576	0.4494	0.3000	4.91	5.00	-1.8	30.0
Bromobenzene	Ave	0.6819	0.7173		5.26	5.00	5.2	30.0
trans-1,4-Dichloro-2-butene	Ave	5.692	5.872		25.8	25.0	3.2	30.0
1,2,3-Trichloropropane	Ave	0.1223	0.1223		5.00	5.00	0.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Lab Sample ID: ICV 410-431955/21

Calibration Date: 10/17/2023 10:24

Instrument ID: 19094

Calib Start Date: 10/17/2023 07:43

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

Calib End Date: 10/17/2023 09:43

Lab File ID: HO16X20.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	3.233	3.589		5.55	5.00	11.0	30.0
2-Chlorotoluene	Ave	0.6769	0.7271		5.37	5.00	7.4	30.0
1,3,5-Trimethylbenzene	Ave	2.342	2.527		5.39	5.00	7.9	30.0
4-Chlorotoluene	Ave	0.6915	0.7363		5.32	5.00	6.5	30.0
tert-Butylbenzene	Ave	0.5347	0.5660		5.29	5.00	5.9	30.0
Pentachloroethane	Ave	0.4360	0.4490		5.15	5.00	3.0	30.0
1,2,4-Trimethylbenzene	Ave	2.368	2.507		5.29	5.00	5.8	30.0
sec-Butylbenzene	Ave	2.853	3.129		5.48	5.00	9.7	30.0
1,3-Dichlorobenzene	Ave	1.307	1.383	0.6000	5.29	5.00	5.8	30.0
p-Isopropyltoluene	Ave	2.513	2.689		5.35	5.00	7.0	30.0
1,4-Dichlorobenzene	Ave	1.319	1.380	0.5000	5.23	5.00	4.7	30.0
1,2,3-Trimethylbenzene	Ave	1.057	1.052		4.98	5.00	-0.4	30.0
Benzyl chloride	Ave	0.1911	0.1856		4.86	5.00	-2.9	30.0
n-Butylbenzene	Ave	1.140	1.243		5.45	5.00	9.0	30.0
1,2-Dichlorobenzene	Ave	1.174	1.241	0.4000	5.28	5.00	5.7	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0605	0.0598	0.0500	4.94	5.00	-1.2	30.0
1,3,5-Trichlorobenzene	Ave	0.8812	0.9410		5.34	5.00	6.8	30.0
1,2,4-Trichlorobenzene	Ave	0.6818	0.7369	0.2000	5.40	5.00	8.1	30.0
Hexachlorobutadiene	Ave	0.2642	0.3058		5.79	5.00	15.7	30.0
Naphthalene	Ave	1.082	1.126		5.20	5.00	4.1	30.0
1,2,3-Trichlorobenzene	Ave	0.4850	0.5067		5.22	5.00	4.5	30.0
Dibromofluoromethane (Surr)	Ave	0.2534	0.2532		9.99	10.0	-0.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0478	0.0476		9.96	10.0	-0.4	30.0
Toluene-d8 (Surr)	Ave	1.322	1.324		10.0	10.0	0.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4949	0.4927		9.96	10.0	-0.4	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X20.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 17-Oct-2023 10:24:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0096799-021
 Operator ID: GAW91131 Instrument ID: 19094
 Sublist:
 Method: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 20-Oct-2023 13:29:23 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: DVW2

Date: 17-Oct-2023 12:28:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.867	1.873	-0.006	99	281793	5.00	5.26	M
5 Chloromethane	50	2.056	2.056	0.000	99	289532	5.00	4.92	
6 Vinyl chloride	62	2.166	2.172	-0.006	97	285332	5.00	5.06	
7 Butadiene	39	2.172	2.178	-0.006	92	254346	5.00	4.15	
9 Bromomethane	94	2.483	2.483	0.000	91	205011	5.00	5.10	
10 Chloroethane	64	2.562	2.562	0.000	100	171704	5.00	5.27	
11 Dichlorofluoromethane	67	2.788	2.788	0.000	97	423069	5.00	4.70	
12 Trichlorofluoromethane	101	2.855	2.855	0.000	98	351283	5.00	5.20	
14 Ethyl ether	59	3.074	3.080	-0.006	93	136894	5.01	4.39	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.153	3.160	-0.007	93	254396	5.00	5.25	
16 Acrolein	56	3.239	3.239	0.000	98	144122	37.5	36.1	
17 1,1-Dichloroethene	96	3.367	3.373	-0.006	97	194308	5.00	5.13	
19 Acetone	43	3.385	3.391	-0.006	99	300221	62.5	60.8	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.422	3.416	0.006	91	171154	5.00	4.91	
21 Iodomethane	142	3.556	3.556	0.000	99	375410	5.00	5.01	
22 Ethyl bromide	108	3.580	3.580	0.000	99	175823	5.06	5.18	
23 Carbon disulfide	76	3.659	3.666	-0.007	100	518885	5.00	4.92	
24 Methyl acetate	43	3.794	3.800	-0.006	99	59810	5.00	4.15	
26 3-Chloro-1-propene	41	3.818	3.818	0.000	88	302743	5.00	4.77	
* 28 t-Butyl alcohol-d10 (IS)	65	3.989	3.995	-0.006	98	81596	50.0	50.0	a
27 Methylene Chloride	84	3.989	3.995	-0.006	92	202913	5.00	5.04	
29 2-Methyl-2-propanol	59	4.117	4.111	0.006	99	68126	50.0	46.6	
31 Acrylonitrile	53	4.318	4.312	0.006	99	167645	25.0	26.0	
32 Methyl tert-butyl ether	73	4.385	4.391	-0.006	96	468434	5.00	4.90	
33 trans-1,2-Dichloroethene	96	4.397	4.397	0.000	99	220687	5.00	5.12	
34 Hexane	57	4.830	4.824	0.006	94	242160	5.00	5.18	
36 1,1-Dichloroethane	63	5.056	5.056	0.000	96	416928	5.00	5.44	
37 Isopropyl ether	45	5.116	5.123	-0.007	93	630294	5.00	4.99	
38 2-Chloro-1,3-butadiene	53	5.171	5.172	-0.001	93	356789	5.00	5.15	
40 Tert-butyl ethyl ether	59	5.659	5.665	-0.006	98	623325	5.00	5.01	
41 2-Butanone (MEK)	43	5.866	5.873	-0.007	100	545300	62.5	67.5	

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	5.897	5.897	0.000	83	247321	5.00	5.12	
43 2,2-Dichloropropane	77	5.909	5.909	0.000	87	376518	5.00	5.30	
44 Propionitrile	54	5.952	5.952	0.000	97	68685	37.5	30.5	
47 Methacrylonitrile	67	6.165	6.171	-0.006	92	349222	37.5	38.9	
48 Chlorobromomethane	128	6.232	6.232	0.000	92	104886	5.00	5.43	
49 Tetrahydrofuran	71	6.250	6.257	-0.007	84	58309	25.0	22.5	
50 Chloroform	83	6.385	6.385	0.000	94	415363	5.00	5.26	
\$ 52 Dibromofluoromethane (Surr)	113	6.604	6.604	0.000	94	459067	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.610	6.616	-0.006	98	392294	5.00	5.30	
54 Cyclohexane	56	6.720	6.720	0.000	91	330916	5.00	4.92	
56 Carbon tetrachloride	117	6.830	6.830	0.000	95	345094	5.00	5.57	
55 1,1-Dichloropropene	75	6.836	6.836	0.000	95	322451	5.00	5.41	
57 Isobutyl alcohol	41	6.988	6.988	0.000	94	60251	125.0	130.3	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.061	7.061	0.000	95	86278	10.0	9.96	
59 Benzene	78	7.098	7.098	0.000	97	914723	5.00	5.29	
60 1,2-Dichloroethane	62	7.171	7.171	0.000	98	259673	5.00	5.15	
63 Tert-amyl methyl ether	73	7.299	7.299	0.000	97	529971	5.00	5.03	
* 64 Fluorobenzene (IS)	96	7.506	7.513	-0.007	98	1813311	10.0	10.0	
65 n-Heptane	43	7.525	7.525	0.000	91	246126	5.00	5.34	
67 n-Butanol	56	7.896	7.891	0.006	91	91217	250.0	247.7	
68 Trichloroethene	95	7.994	8.000	-0.006	97	252455	5.00	5.17	
69 Methylcyclohexane	83	8.305	8.305	0.000	90	348543	5.00	5.27	
70 1,2-Dichloropropane	63	8.329	8.329	0.000	92	227919	5.00	5.36	
71 2-ethoxy-2-methyl butane	87	8.341	8.342	-0.001	92	327090	5.00	4.81	
72 Methyl methacrylate	69	8.421	8.421	0.000	89	93041	5.00	5.05	
73 1,4-Dioxane	88	8.427	8.433	-0.006	30	14196	125.0	243.0	M
74 Dibromomethane	93	8.439	8.439	0.000	95	109358	5.00	5.31	
76 Dichlorobromomethane	83	8.677	8.677	0.000	99	299666	5.00	5.28	
77 2-Nitropropane	41	8.939	8.939	0.000	98	32388	5.00	5.18	
79 1-Bromo-2-chloroethane	63	9.079	9.073	0.006	99	207804	5.00	4.97	
80 cis-1,3-Dichloropropene	75	9.238	9.238	0.000	94	334115	5.00	5.06	
82 4-Methyl-2-pentanone (MIBK)	43	9.421	9.421	0.000	97	1447997	62.5	63.7	
\$ 83 Toluene-d8 (Surr)	98	9.561	9.561	0.000	94	1824041	10.0	10.0	
84 Toluene	92	9.634	9.640	-0.006	98	604875	5.00	5.31	
85 trans-1,3-Dichloropropene	75	9.902	9.902	0.000	96	284830	5.00	5.21	
104 Ethyl methacrylate	69	9.975	9.975	0.000	88	205230	5.00	5.06	
106 1,1,2-Trichloroethane	97	10.109	10.116	-0.007	92	148735	5.00	5.19	
107 Tetrachloroethene	166	10.201	10.201	0.000	97	294991	5.00	5.43	
108 1,3-Dichloropropane	76	10.280	10.280	0.000	92	255678	5.00	5.21	
109 2-Hexanone	43	10.335	10.335	0.000	97	984964	62.5	65.0	
111 Chlorodibromomethane	129	10.500	10.500	0.000	90	204186	5.00	5.34	
112 Ethylene Dibromide	107	10.609	10.609	0.000	98	143769	5.00	5.20	
* 113 Chlorobenzene-d5 (IS)	117	11.048	11.048	0.000	86	1377945	10.0	10.0	
114 1-Chlorohexane	91	11.060	11.061	-0.001	98	321787	5.00	4.95	
115 Chlorobenzene	112	11.073	11.073	0.000	94	663350	5.00	5.35	
116 1,1,1,2-Tetrachloroethane	131	11.158	11.158	0.000	96	243342	5.00	5.38	
117 Ethylbenzene	91	11.164	11.164	0.000	99	1190220	5.00	5.37	
119 m-Xylene & p-Xylene	106	11.280	11.280	0.000	100	922941	10.0	10.8	
120 o-Xylene	106	11.609	11.609	0.000	97	446021	5.00	5.31	
121 Styrene	104	11.627	11.628	-0.001	95	729846	5.00	5.38	
122 Bromoform	173	11.786	11.786	0.000	97	122468	5.00	5.09	
123 Isopropylbenzene	105	11.914	11.914	0.000	96	1198581	5.00	5.82	

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	12.060	12.060	0.000	92	678943	10.0	9.96	
127 1,1,2,2-Tetrachloroethane	83	12.164	12.164	0.000	94	174955	5.00	4.91	
128 Bromobenzene	156	12.176	12.176	0.000	95	279242	5.00	5.26	
129 trans-1,4-Dichloro-2-butene	53	12.188	12.188	0.000	94	239576	25.0	25.8	
130 1,2,3-Trichloropropane	110	12.207	12.207	0.000	84	47611	5.00	5.00	
131 N-Propylbenzene	91	12.249	12.249	0.000	99	1397416	5.00	5.55	
132 2-Chlorotoluene	126	12.322	12.323	-0.001	96	283058	5.00	5.37	
133 1,3,5-Trimethylbenzene	105	12.383	12.384	-0.001	95	983656	5.00	5.39	
134 4-Chlorotoluene	126	12.414	12.414	0.000	98	286675	5.00	5.32	
135 tert-Butylbenzene	134	12.627	12.627	0.000	93	220344	5.00	5.29	
136 Pentachloroethane	167	12.658	12.658	0.000	93	174811	5.00	5.15	
137 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	975862	5.00	5.29	
138 sec-Butylbenzene	105	12.792	12.792	0.000	94	1218095	5.00	5.48	
139 1,3-Dichlorobenzene	146	12.889	12.890	-0.001	98	538458	5.00	5.29	
140 4-Isopropyltoluene	119	12.902	12.902	0.000	97	1046826	5.00	5.35	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	778640	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	94	537394	5.00	5.23	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	99	409517	5.00	4.98	
144 Benzyl chloride	126	13.042	13.042	0.000	99	72265	5.00	4.86	
145 p-Diethylbenzene	119	13.170	13.170	0.000	96	617989	5.00	5.44	
146 n-Butylbenzene	92	13.194	13.194	0.000	98	483817	5.00	5.45	
147 1,2-Dichlorobenzene	146	13.225	13.225	0.000	98	482970	5.00	5.28	
149 1,2-Dibromo-3-Chloropropane	155	13.767	13.767	0.000	86	23267	5.00	4.94	
150 1,3,5-Trichlorobenzene	180	13.895	13.895	0.000	98	366369	5.00	5.34	
151 1,2,4-Trichlorobenzene	180	14.316	14.316	0.000	94	286873	5.00	5.40	
152 Hexachlorobutadiene	225	14.401	14.401	0.000	95	119044	5.00	5.79	
153 Naphthalene	128	14.499	14.493	0.006	97	438410	5.00	5.20	
154 1,2,3-Trichlorobenzene	180	14.639	14.639	0.000	95	197249	5.00	5.22	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LCS_VOC#1_00134	Amount Added: 12.50	Units: uL	
MSV_LCS_Penta_00033	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00164	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00007	Amount Added: 12.50	Units: uL	
LCS_ETBR_00006	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00135	Amount Added: 12.50	Units: uL	
MSV_LLcentISS_00009	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 20-Oct-2023 13:29:48

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X20.D

Injection Date: 17-Oct-2023 10:24:30

Instrument ID: 19094

Operator ID: GAW91131

Lims ID: ICV

Worklist Smp#: 21

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

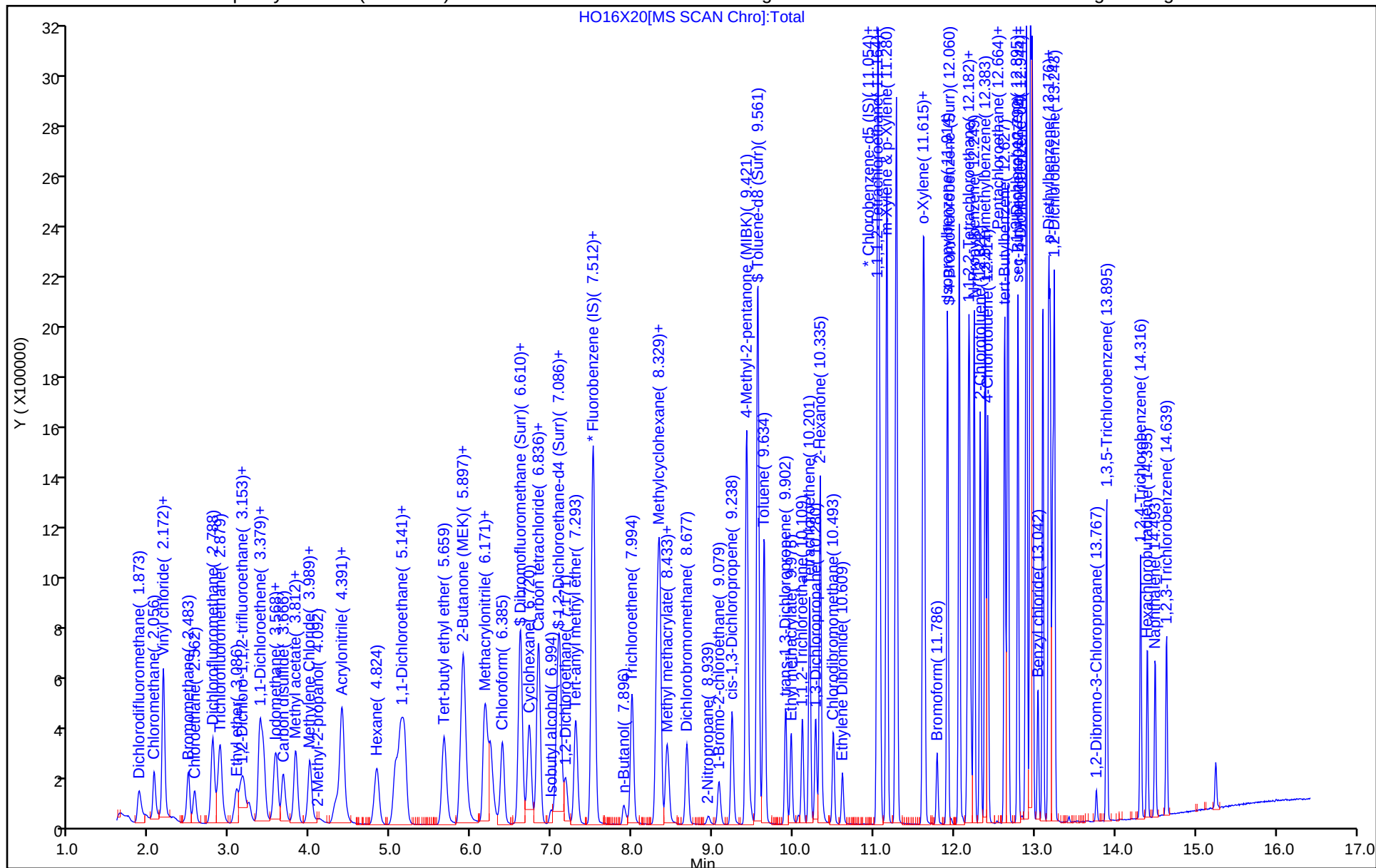
ALS Bottle#: 20

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



Eurofins Lancaster Laboratories Environment Testing, LLC

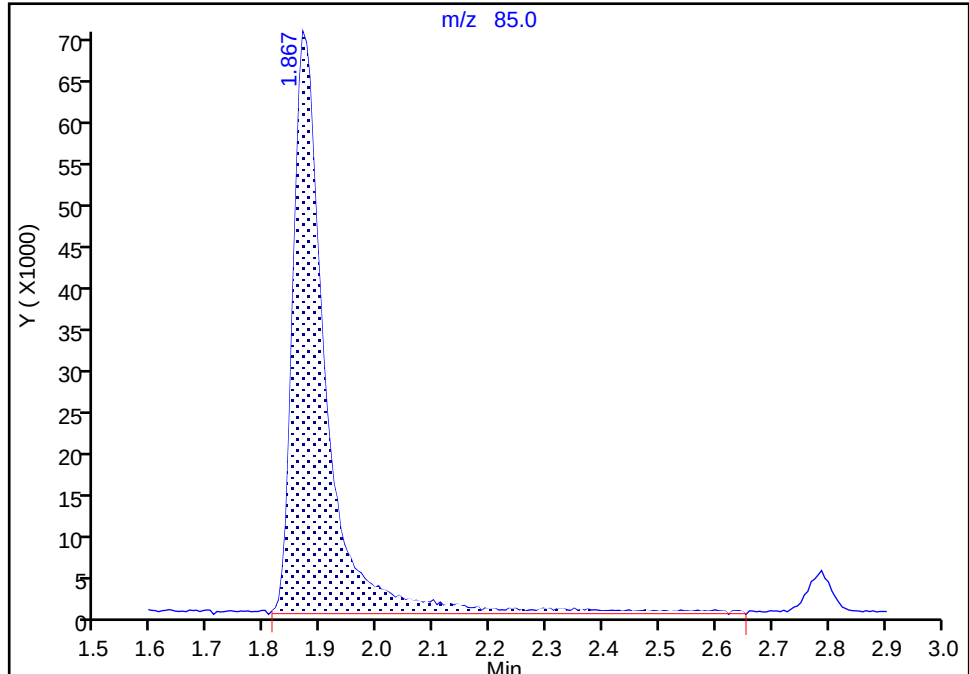
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X20.D
Injection Date: 17-Oct-2023 10:24:30 Instrument ID: 19094
Lims ID: ICV
Client ID:
Operator ID: GAW91131 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

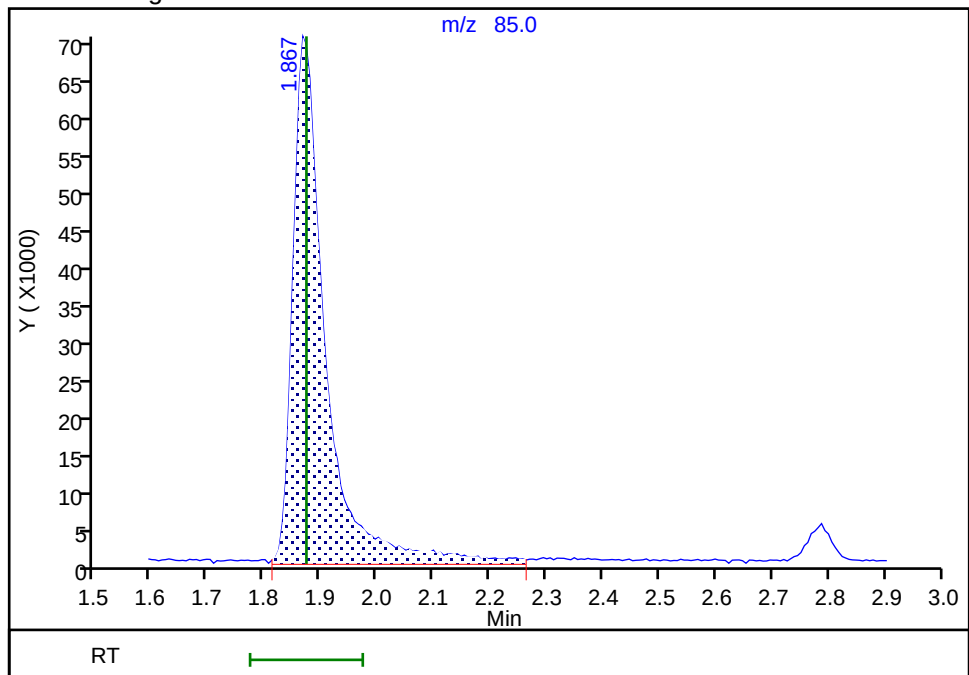
RT: 1.87
Area: 292653
Amount: 5.484982
Amount Units: ug/l

Processing Integration Results



RT: 1.87
Area: 281793
Amount: 5.258267
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:41:37 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

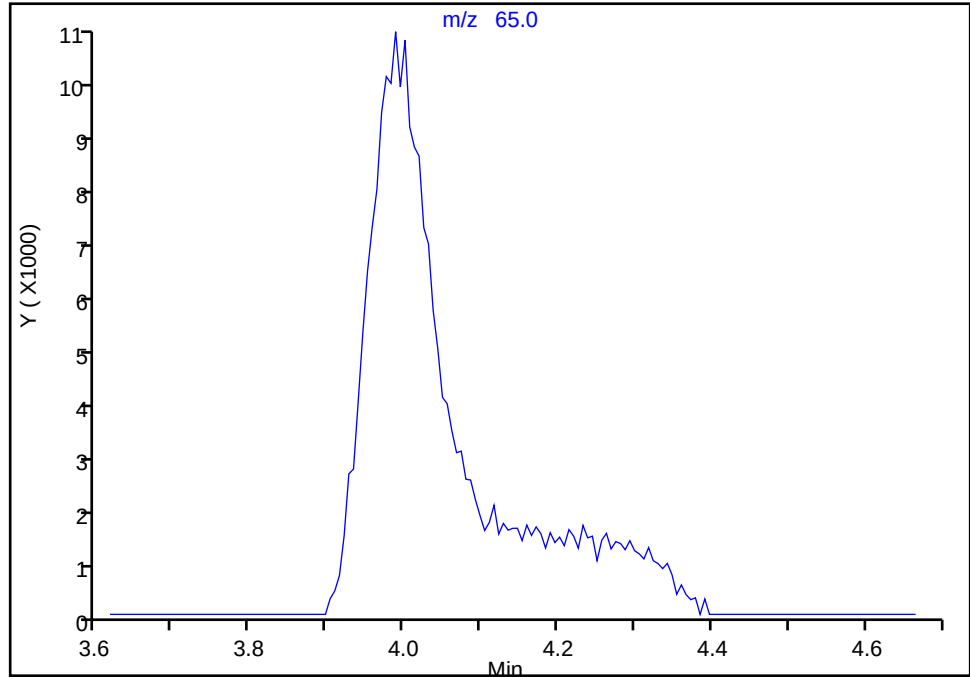
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X20.D
Injection Date: 17-Oct-2023 10:24:30 Instrument ID: 19094
Lims ID: ICV
Client ID:
Operator ID: GAW91131 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 28 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

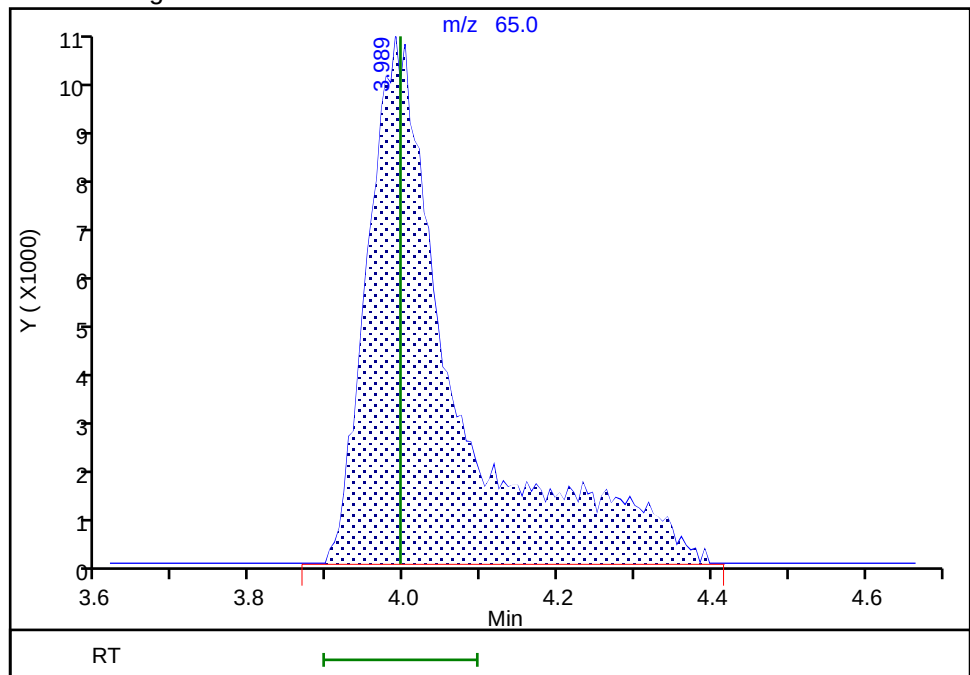
Signal: 1

Not Detected
Expected RT: 3.99

Processing Integration Results



Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:41:28 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

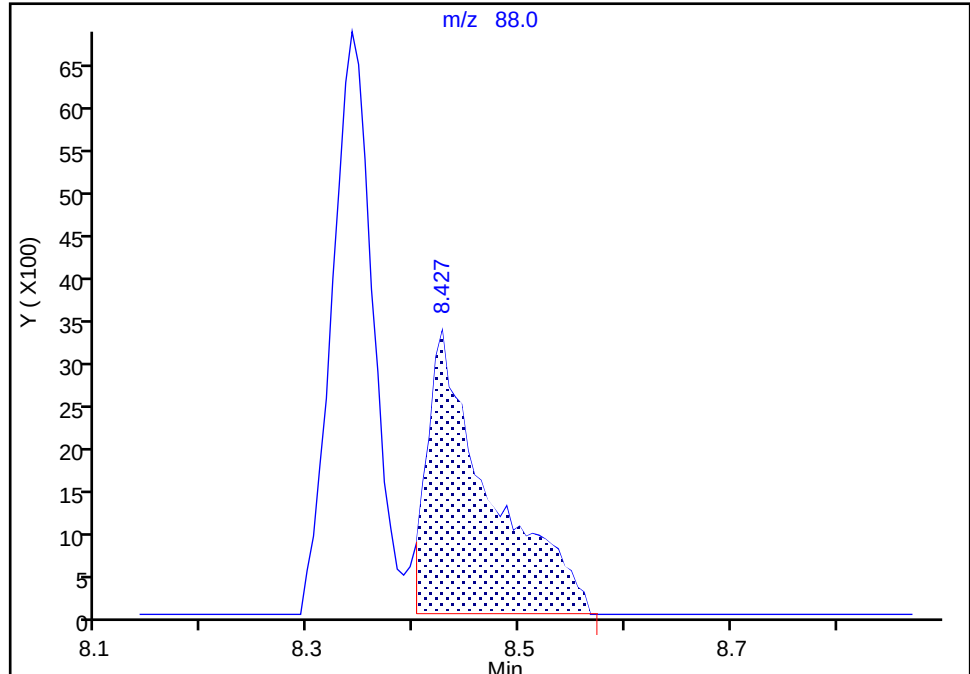
Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X20.D
Injection Date: 17-Oct-2023 10:24:30 Instrument ID: 19094
Lims ID: ICV
Client ID:
Operator ID: GAW91131 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

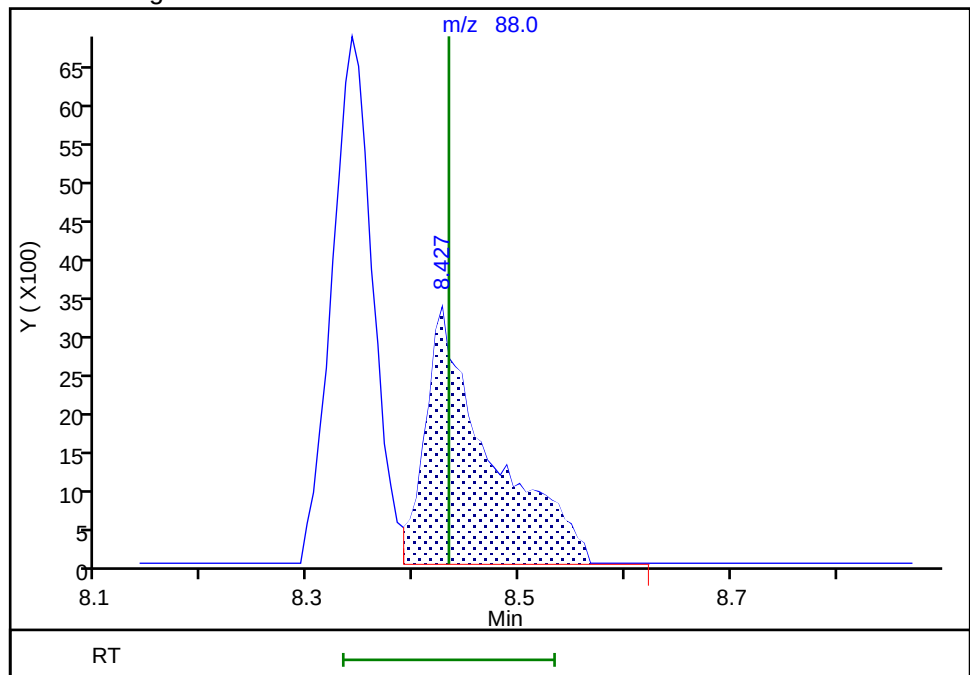
RT: 8.43
Area: 13820
Amount: 238.3408
Amount Units: ug/l

Processing Integration Results



RT: 8.43
Area: 14196
Amount: 242.9875
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Oct-2023 08:42:35 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Lab Sample ID: CCVIS 410-478015/3

Calibration Date: 02/28/2024 18:25

Instrument ID: 19094

Calib Start Date: 10/17/2023 07:43

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

Calib End Date: 10/17/2023 09:43

Lab File ID: HF28X02.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	0.2955	0.3038	0.1000	10.3	10.0	2.8	20.0
Chloromethane	Ave	0.3245	0.3578	0.1000	11.0	10.0	10.3	20.0
Vinyl chloride	Ave	0.3113	0.3412	0.1000	11.0	10.0	9.6	20.0
1,3-Butadiene	Ave	0.3376	0.2964		8.78	10.0	-12.2	20.0
Bromomethane	Ave	0.2216	0.2443	0.1000	11.0	10.0	10.2	20.0
Chloroethane	Ave	0.1797	0.2110	0.1000	11.7	10.0	17.4	20.0
Dichlorofluoromethane	Ave	0.4969	0.5330		10.7	10.0	7.3	20.0
Trichlorofluoromethane	Ave	0.3725	0.4030	0.1000	10.8	10.0	8.2	20.0
Ethyl ether	Ave	0.1719	0.1679		9.77	10.0	-2.3	20.0
Freon 123a	Ave	0.2673	0.3075		11.5	10.0	15.0	20.0
Acrolein	Ave	2.449	0.7486		153	500	-69.4*	20.0
1,1-Dichloroethene	Ave	0.2090	0.2167	0.1000	10.4	10.0	3.7	20.0
Acetone	Ave	3.026	3.095	0.1000	102	100	2.3	20.0
Freon 113	Ave	0.1923	0.2282	0.1000	11.9	10.0	18.7	20.0
Methyl iodide	Ave	0.4129	0.4200		10.2	10.0	1.7	20.0
Ethyl bromide	Ave	0.1871	0.1931		10.3	10.0	3.2	20.0
Carbon disulfide	Ave	0.5820	0.6687	0.1000	11.5	10.0	14.9	20.0
Methyl acetate	Ave	8.821	8.472	0.1000	9.60	10.0	-4.0	20.0
Allyl chloride	Ave	0.3497	0.3796		10.9	10.0	8.5	20.0
Methylene Chloride	Ave	0.2218	0.2452	0.1000	11.1	10.0	10.5	20.0
t-Butyl alcohol	Ave	0.8959	0.8295		185	200	-7.4	20.0
Acrylonitrile	Ave	3.950	4.656		29.5	25.0	17.9	20.0
Methyl tert-butyl ether	Ave	0.5270	0.5649	0.1000	10.7	10.0	7.2	20.0
trans-1,2-Dichloroethene	Ave	0.2375	0.2502	0.1000	10.5	10.0	5.3	20.0
n-Hexane	Ave	0.2577	0.3254		12.6	10.0	26.3*	20.0
1,1-Dichloroethane	Ave	0.4229	0.4782	0.2000	11.3	10.0	13.1	20.0
di-Isopropyl ether	Ave	0.6967	0.8017		11.5	10.0	15.1	20.0
2-Chloro-1,3-butadiene	Ave	0.3824	0.3901		10.2	10.0	2.0	20.0
Ethyl t-butyl ether	Ave	0.6856	0.7148		10.4	10.0	4.3	20.0
2-Butanone (MEK)	Ave	4.948	6.125	0.1000	124	100	23.8*	20.0
cis-1,2-Dichloroethene	Ave	0.2665	0.2829	0.1000	10.6	10.0	6.1	20.0
2,2-Dichloropropane	Ave	0.3921	0.4047		10.3	10.0	3.2	20.0
Propionitrile	Ave	1.378	1.691		246	200	22.8*	20.0
Methacrylonitrile	Ave	5.500	6.364		116	100	15.7	20.0
Bromochloromethane	Ave	0.1065	0.1188		11.2	10.0	11.6	20.0
Tetrahydrofuran	Ave	1.587	1.759		55.4	50.0	10.8	20.0
Chloroform	Ave	0.4355	0.4664	0.2000	10.7	10.0	7.1	20.0
1,1,1-Trichloroethane	Ave	0.4085	0.3990	0.1000	9.77	10.0	-2.3	20.0
Cyclohexane	Ave	0.3708	0.4263	0.1000	11.5	10.0	15.0	20.0
1,1-Dichloropropene	Ave	0.3288	0.3724		11.3	10.0	13.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Lab Sample ID: CCVIS 410-478015/3

Calibration Date: 02/28/2024 18:25

Instrument ID: 19094

Calib Start Date: 10/17/2023 07:43

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

Calib End Date: 10/17/2023 09:43

Lab File ID: HF28X02.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	0.3419	0.3622	0.1000	10.6	10.0	5.9	20.0
Isobutyl alcohol	Ave	0.2834	0.3412		602	500	20.4*	20.0
Benzene	Ave	0.9541	1.096	0.5000	11.5	10.0	14.8	20.0
1,2-Dichloroethane	Ave	0.2779	0.2764	0.1000	9.95	10.0	-0.5	20.0
t-Amyl methyl ether	Ave	0.5813	0.6337		10.9	10.0	9.0	20.0
n-Heptane	Ave	0.2544	0.3141		12.3	10.0	23.5*	20.0
n-Butanol	Ave	0.2257	0.2884		1120	875	27.8*	20.0
Trichloroethene	Ave	0.2692	0.2865	0.2000	10.6	10.0	6.4	20.0
Methylcyclohexane	Ave	0.3647	0.4347	0.1000	11.9	10.0	19.2	20.0
1,2-Dichloropropane	Ave	0.2347	0.2894	0.1000	12.3	10.0	23.3*	20.0
1,4-Dioxane	Lin2		0.0509	0.0050	670	500	34.1*	20.0
Methyl methacrylate	Ave	11.30	12.38		11.0	10.0	9.6	20.0
Dibromomethane	Ave	0.1137	0.1279		11.3	10.0	12.5	20.0
Bromodichloromethane	Ave	0.3129	0.3328	0.2000	10.6	10.0	6.4	20.0
2-Nitropropane	Ave	3.830	3.398		44.4	50.0	-11.3	20.0
1-Bromo-2-chloroethane	Ave	0.2305	0.2684		11.6	10.0	16.5	20.0
cis-1,3-Dichloropropene	Ave	0.3641	0.4223	0.2000	11.6	10.0	16.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	13.94	15.87	0.1000	114	100	13.8	20.0
Toluene	Ave	0.8259	0.8355	0.4000	10.1	10.0	1.2	20.0
trans-1,3-Dichloropropene	Ave	0.3969	0.4035	0.1000	10.2	10.0	1.6	20.0
Ethyl methacrylate	Ave	0.2946	0.3018		10.2	10.0	2.5	20.0
1,1,2-Trichloroethane	Ave	0.2079	0.2105	0.1000	10.1	10.0	1.3	20.0
Tetrachloroethene	Ave	0.3946	0.3940	0.2000	9.98	10.0	-0.2	20.0
1,3-Dichloropropane	Ave	0.3562	0.3832		10.8	10.0	7.6	20.0
2-Hexanone	Ave	9.279	10.97	0.1000	118	100	18.3	20.0
Dibromochloromethane	Ave	0.2773	0.2738		9.87	10.0	-1.3	20.0
1,2-Dibromoethane (EDB)	Ave	0.2005	0.2051	0.1000	10.2	10.0	2.3	20.0
1-Chlorohexane	Ave	0.4716	0.4718		10.0	10.0	0.0	20.0
Chlorobenzene	Ave	0.9001	0.9284	0.5000	10.3	10.0	3.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3281	0.3239		9.87	10.0	-1.3	20.0
Ethylbenzene	Ave	1.609	1.626	0.1000	10.1	10.0	1.1	20.0
m&p-Xylene	Ave	0.6214	0.6433	0.1000	20.7	20.0	3.5	20.0
o-Xylene	Ave	0.6094	0.6207	0.3000	10.2	10.0	1.9	20.0
Styrene	Ave	0.9854	1.005	0.3000	10.2	10.0	2.0	20.0
Bromoform	Ave	0.1748	0.1671	0.1000	9.56	10.0	-4.4	20.0
Isopropylbenzene	Ave	1.495	1.494	0.1000	9.99	10.0	-0.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.4576	0.4375	0.3000	9.56	10.0	-4.4	20.0
Bromobenzene	Ave	0.6819	0.6439		9.44	10.0	-5.6	20.0
trans-1,4-Dichloro-2-butene	Ave	5.692	6.237		110	100	9.6	20.0
1,2,3-Trichloropropane	Ave	0.1223	0.1193		9.75	10.0	-2.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Lab Sample ID: CCVIS 410-478015/3

Calibration Date: 02/28/2024 18:25

Instrument ID: 19094

Calib Start Date: 10/17/2023 07:43

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

Calib End Date: 10/17/2023 09:43

Lab File ID: HF28X02.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	3.233	3.151		9.75	10.0	-2.5	20.0
2-Chlorotoluene	Ave	0.6769	0.6475		9.57	10.0	-4.3	20.0
1,3,5-Trimethylbenzene	Ave	2.342	2.257		9.64	10.0	-3.6	20.0
4-Chlorotoluene	Ave	0.6915	0.6677		9.66	10.0	-3.4	20.0
tert-Butylbenzene	Ave	0.5347	0.5148		9.63	10.0	-3.7	20.0
Pentachloroethane	Ave	0.4360	0.4025		9.23	10.0	-7.7	20.0
1,2,4-Trimethylbenzene	Ave	2.368	2.308		9.74	10.0	-2.6	20.0
sec-Butylbenzene	Ave	2.853	2.814		9.86	10.0	-1.4	20.0
1,3-Dichlorobenzene	Ave	1.307	1.290	0.6000	9.87	10.0	-1.3	20.0
p-Isopropyltoluene	Ave	2.513	2.457		9.78	10.0	-2.2	20.0
1,4-Dichlorobenzene	Ave	1.319	1.288	0.5000	9.76	10.0	-2.4	20.0
1,2,3-Trimethylbenzene	Ave	1.057	1.017		9.63	10.0	-3.7	20.0
Benzyl chloride	Ave	0.1911	0.1971		10.3	10.0	3.1	20.0
n-Butylbenzene	Ave	1.140	1.162		10.2	10.0	1.9	20.0
1,2-Dichlorobenzene	Ave	1.174	1.156	0.4000	9.85	10.0	-1.5	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0605	0.0615	0.0500	10.2	10.0	1.7	20.0
1,3,5-Trichlorobenzene	Ave	0.8812	0.8584		9.74	10.0	-2.6	20.0
1,2,4-Trichlorobenzene	Ave	0.6818	0.6846	0.2000	10.0	10.0	0.4	20.0
Hexachlorobutadiene	Ave	0.2642	0.2488		9.42	10.0	-5.8	20.0
Naphthalene	Ave	1.082	1.132		10.5	10.0	4.6	20.0
1,2,3-Trichlorobenzene	Ave	0.4850	0.5244		10.8	10.0	8.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2534	0.2428		9.58	10.0	-4.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0478	0.0503		10.5	10.0	5.4	20.0
Toluene-d8 (Surr)	Ave	1.322	1.245		9.42	10.0	-5.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4949	0.4978		10.1	10.0	0.6	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X02.D
 Lims ID: CCVIS VSTD10
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 28-Feb-2024 18:25:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107468-003
 Misc. Info.: CCVIS
 Operator ID: gaw91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Feb-2024 20:34:03 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1673

First Level Reviewer: JS6E

Date: 28-Feb-2024 19:14:27

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	1.867	0.000	99	537133	10.0	10.3	
5 Chloromethane	50	2.056	2.056	0.000	99	632695	10.0	11.0	
6 Vinyl chloride	62	2.172	2.172	0.000	97	603333	10.0	11.0	
7 Butadiene	39	2.178	2.178	0.000	92	524039	10.0	8.78	
9 Bromomethane	94	2.489	2.489	0.000	90	431904	10.0	11.0	
10 Chloroethane	64	2.562	2.562	0.000	100	373080	10.0	11.7	
11 Dichlorofluoromethane	67	2.788	2.788	0.000	97	942389	10.0	10.7	
12 Trichlorofluoromethane	101	2.867	2.867	0.000	98	712607	10.0	10.8	
14 Ethyl ether	59	3.093	3.093	0.000	92	296814	10.0	9.77	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.172	3.172	0.000	93	543703	10.0	11.5	
16 Acrolein	56	3.263	3.263	0.000	100	641272	500.0	152.8	
17 1,1-Dichloroethene	96	3.385	3.385	0.000	98	383224	10.0	10.4	
19 Acetone	43	3.410	3.410	0.000	99	530242	100.0	102.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.422	3.422	0.000	92	403481	10.0	11.9	
21 Iodomethane	142	3.568	3.568	0.000	98	742594	10.0	10.2	
22 Ethyl bromide	108	3.599	3.599	0.000	98	341569	10.0	10.3	
23 Carbon disulfide	76	3.672	3.672	0.000	99	1182332	10.0	11.5	
24 Methyl acetate	43	3.830	3.830	0.000	24	145157	10.0	9.60	M
26 3-Chloro-1-propene	41	3.837	3.837	0.000	93	671137	10.0	10.9	
27 Methylene Chloride	84	4.013	4.013	0.000	92	433593	10.0	11.1	
* 28 t-Butyl alcohol-d10 (IS)	65	4.038	4.038	0.000	97	85672	50.0	50.0	
29 2-Methyl-2-propanol	59	4.178	4.178	0.000	100	284274	200.0	185.2	
31 Acrylonitrile	53	4.343	4.343	0.000	99	199462	25.0	29.5	
32 Methyl tert-butyl ether	73	4.410	4.410	0.000	95	998856	10.0	10.7	
33 trans-1,2-Dichloroethene	96	4.422	4.422	0.000	99	442413	10.0	10.5	
34 Hexane	57	4.849	4.849	0.000	91	575329	10.0	12.6	
36 1,1-Dichloroethane	63	5.080	5.080	0.000	96	845534	10.0	11.3	
37 Isopropyl ether	45	5.141	5.141	0.000	95	1417454	10.0	11.5	
38 2-Chloro-1,3-butadiene	53	5.190	5.190	0.000	90	689780	10.0	10.2	
40 Tert-butyl ethyl ether	59	5.678	5.678	0.000	98	1263880	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	5.873	5.873	0.000	100	1049456	100.0	123.8	
42 cis-1,2-Dichloroethene	96	5.909	5.909	0.000	82	500124	10.0	10.6	
43 2,2-Dichloropropane	77	5.921	5.921	0.000	87	715600	10.0	10.3	
44 Propionitrile	54	5.958	5.958	0.000	99	579655	200.0	245.5	
47 Methacrylonitrile	67	6.171	6.171	0.000	91	1090398	100.0	115.7	
48 Chlorobromomethane	128	6.238	6.238	0.000	92	210126	10.0	11.2	
49 Tetrahydrofuran	71	6.257	6.257	0.000	79	150691	50.0	55.4	
50 Chloroform	83	6.391	6.391	0.000	93	824673	10.0	10.7	
\$ 52 Dibromofluoromethane (Surr)	113	6.604	6.604	0.000	94	429209	10.0	9.58	
53 1,1,1-Trichloroethane	97	6.623	6.623	0.000	99	705401	10.0	9.77	
54 Cyclohexane	56	6.726	6.726	0.000	90	753643	10.0	11.5	
56 Carbon tetrachloride	117	6.836	6.836	0.000	84	640373	10.0	10.6	
55 1,1-Dichloropropene	75	6.836	6.836	0.000	97	658380	10.0	11.3	
57 Isobutyl alcohol	41	6.988	6.988	0.000	93	292322	500.0	601.9	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.061	7.061	0.000	84	89021	10.0	10.5	
59 Benzene	78	7.098	7.098	0.000	96	1937216	10.0	11.5	
60 1,2-Dichloroethane	62	7.165	7.165	0.000	97	488768	10.0	9.95	
63 Tert-amyl methyl ether	73	7.293	7.293	0.000	99	1120509	10.0	10.9	
* 64 Fluorobenzene (IS)	96	7.500	7.500	0.000	98	1768073	10.0	10.0	
65 n-Heptane	43	7.519	7.519	0.000	89	555401	10.0	12.3	
67 n-Butanol	56	7.878	7.878	0.000	88	432392	875.0	1118.2	
68 Trichloroethene	95	7.982	7.982	0.000	98	506568	10.0	10.6	
69 Methylcyclohexane	83	8.293	8.293	0.000	93	768666	10.0	11.9	
70 1,2-Dichloropropane	63	8.311	8.311	0.000	97	511687	10.0	12.3	
71 2-ethoxy-2-methyl butane	87	8.330	8.330	0.000	93	747147	10.0	11.3	
72 Methyl methacrylate	69	8.409	8.409	0.000	88	212108	10.0	11.0	
73 1,4-Dioxane	88	8.409	8.409	0.000	34	43647	500.0	670.5	
74 Dibromomethane	93	8.427	8.427	0.000	96	226200	10.0	11.3	
76 Dichlorobromomethane	83	8.659	8.659	0.000	99	588435	10.0	10.6	
77 2-Nitropropane	41	8.921	8.921	0.000	97	291114	50.0	44.4	
79 1-Bromo-2-chloroethane	63	9.055	9.055	0.000	98	474625	10.0	11.6	
80 cis-1,3-Dichloropropene	75	9.214	9.214	0.000	97	746614	10.0	11.6	
82 4-Methyl-2-pentanone (MIBK)	43	9.396	9.396	0.000	96	2718524	100.0	113.8	
\$ 83 Toluene-d8 (Surr)	98	9.531	9.531	0.000	93	1883262	10.0	9.42	
84 Toluene	92	9.610	9.610	0.000	98	1263698	10.0	10.1	
85 trans-1,3-Dichloropropene	75	9.872	9.872	0.000	92	610211	10.0	10.2	
104 Ethyl methacrylate	69	9.945	9.945	0.000	88	456497	10.0	10.2	
106 1,1,2-Trichloroethane	97	10.079	10.079	0.000	90	318438	10.0	10.1	
107 Tetrachloroethene	166	10.171	10.171	0.000	98	595849	10.0	9.98	
108 1,3-Dichloropropane	76	10.244	10.244	0.000	89	579584	10.0	10.8	
109 2-Hexanone	43	10.299	10.299	0.000	96	1880470	100.0	118.3	
111 Chlorodibromomethane	129	10.463	10.463	0.000	90	414095	10.0	9.87	
112 Ethylene Dibromide	107	10.573	10.573	0.000	98	310227	10.0	10.2	
* 113 Chlorobenzene-d5 (IS)	117	11.012	11.012	0.000	87	1512425	10.0	10.0	
114 1-Chlorohexane	91	11.024	11.024	0.000	97	713614	10.0	10.0	
115 Chlorobenzene	112	11.036	11.036	0.000	95	1404166	10.0	10.3	
116 1,1,1,2-Tetrachloroethane	131	11.122	11.122	0.000	97	489887	10.0	9.87	
117 Ethylbenzene	91	11.122	11.122	0.000	98	2459864	10.0	10.1	
119 m-Xylene & p-Xylene	106	11.244	11.244	0.000	99	1945933	20.0	20.7	
120 o-Xylene	106	11.573	11.573	0.000	96	938807	10.0	10.2	
121 Styrene	104	11.585	11.585	0.000	94	1520022	10.0	10.2	
122 Bromoform	173	11.744	11.744	0.000	97	252786	10.0	9.56	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 Isopropylbenzene	105	11.872	11.872	0.000	96	2259249	10.0	9.99	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.018	12.018	0.000	93	752945	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.115	12.115	0.000	91	393386	10.0	9.56	
128 Bromobenzene	156	12.134	12.134	0.000	97	578981	10.0	9.44	
129 trans-1,4-Dichloro-2-butene	53	12.140	12.140	0.000	92	1068675	100.0	109.6	
130 1,2,3-Trichloropropane	110	12.164	12.164	0.000	82	107237	10.0	9.75	
131 N-Propylbenzene	91	12.201	12.201	0.000	99	2833529	10.0	9.75	
132 2-Chlorotoluene	126	12.274	12.274	0.000	97	582197	10.0	9.57	
133 1,3,5-Trimethylbenzene	105	12.335	12.335	0.000	94	2029809	10.0	9.64	
134 4-Chlorotoluene	126	12.371	12.371	0.000	97	600375	10.0	9.66	
135 tert-Butylbenzene	134	12.579	12.579	0.000	93	462867	10.0	9.63	
136 Pentachloroethane	167	12.609	12.609	0.000	94	361906	10.0	9.23	
137 1,2,4-Trimethylbenzene	105	12.621	12.621	0.000	97	2075182	10.0	9.74	
138 sec-Butylbenzene	105	12.743	12.743	0.000	94	2529862	10.0	9.86	
139 1,3-Dichlorobenzene	146	12.841	12.841	0.000	98	1159796	10.0	9.87	
140 4-Isopropyltoluene	119	12.847	12.847	0.000	97	2209490	10.0	9.78	
* 141 1,4-Dichlorobenzene-d4	152	12.896	12.896	0.000	93	899141	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.914	12.914	0.000	94	1157670	10.0	9.76	
143 1,2,3-Trimethylbenzene	120	12.920	12.920	0.000	98	914549	10.0	9.63	
144 Benzyl chloride	126	12.987	12.987	0.000	98	177179	10.0	10.3	
145 p-Diethylbenzene	119	13.121	13.121	0.000	94	1308591	10.0	9.98	
146 n-Butylbenzene	92	13.140	13.140	0.000	98	1044795	10.0	10.2	
147 1,2-Dichlorobenzene	146	13.170	13.170	0.000	99	1039262	10.0	9.85	
149 1,2-Dibromo-3-Chloropropane	155	13.713	13.713	0.000	86	55288	10.0	10.2	
150 1,3,5-Trichlorobenzene	180	13.841	13.841	0.000	98	771844	10.0	9.74	
151 1,2,4-Trichlorobenzene	180	14.261	14.261	0.000	94	615530	10.0	10.0	
152 Hexachlorobutadiene	225	14.341	14.341	0.000	95	223723	10.0	9.42	
153 Naphthalene	128	14.438	14.438	0.000	97	1018161	10.0	10.5	
154 1,2,3-Trichlorobenzene	180	14.578	14.578	0.000	96	471473	10.0	10.8	
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_00118	Amount Added: 20.00	Units: uL	
MSV_LL_#2_826_00127	Amount Added: 20.00	Units: uL	
MSV_LL_GAS826_00195	Amount Added: 20.00	Units: uL	
MSV_LLcentISS_00012	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 28-Feb-2024 20:34:04

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X02.D

Injection Date: 28-Feb-2024 18:25:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: CCVIS VSTD10

Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

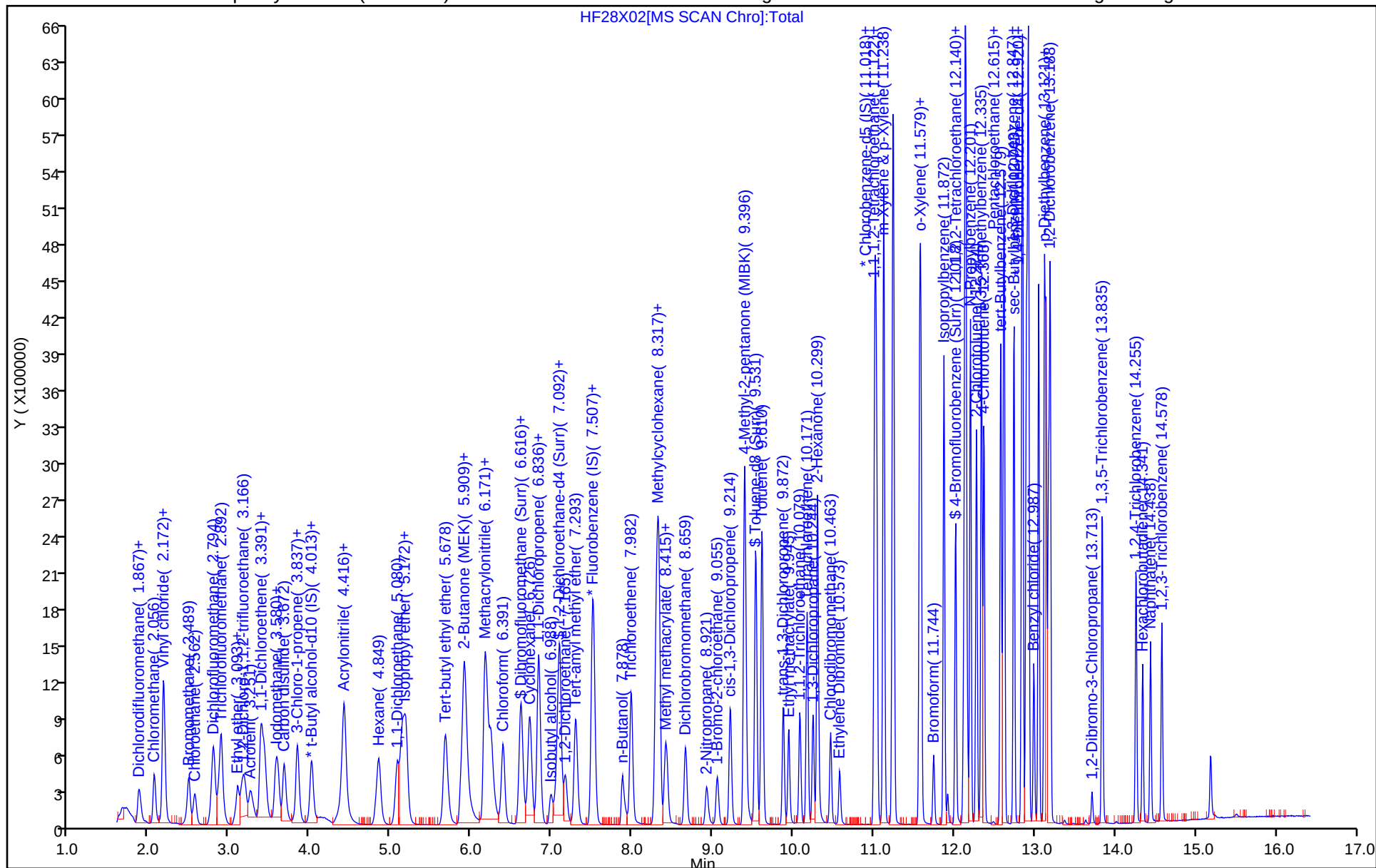
ALS Bottle#: 2

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



Eurofins Lancaster Laboratories Environment Testing, LLC

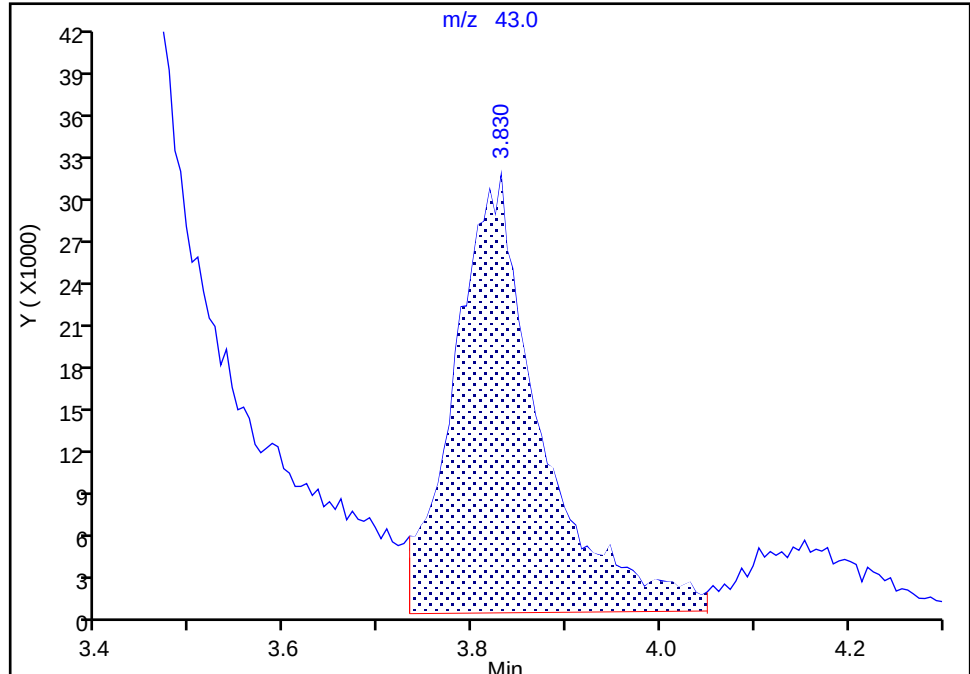
Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X02.D
Injection Date: 28-Feb-2024 18:25:30 Instrument ID: 19094
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

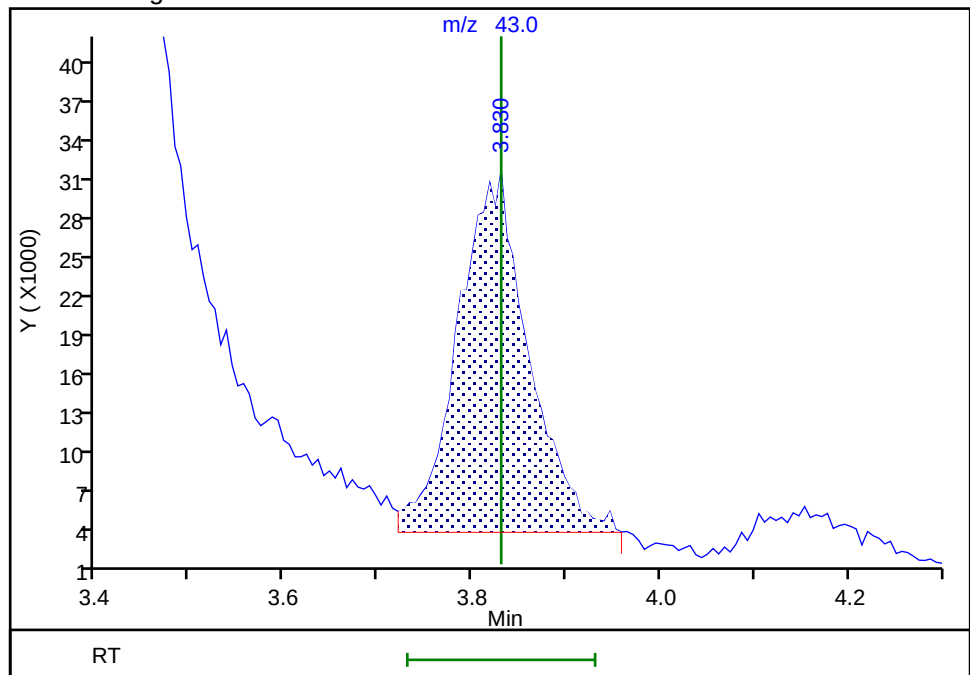
RT: 3.83
Area: 201315
Amount: 13.319809
Amount Units: ug/l

Processing Integration Results



RT: 3.83
Area: 145157
Amount: 9.604170
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 28-Feb-2024 18:51:23 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11T01.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 11-Dec-2023 17:07:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0101546-001
Misc. Info.: BFB
Operator ID: gaw91131 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 12-Dec-2023 15:03:55 Calib Date: 11-Dec-2023 23:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1684

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 168 BFB	95	5.056	5.056	0.000	92	769630	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MSV_V_BFB_00013

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11T01.D

Injection Date: 11-Dec-2023 17:07:30

Instrument ID: 10193

Lims ID: BFB

Client ID:

Operator ID: gaw91131

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

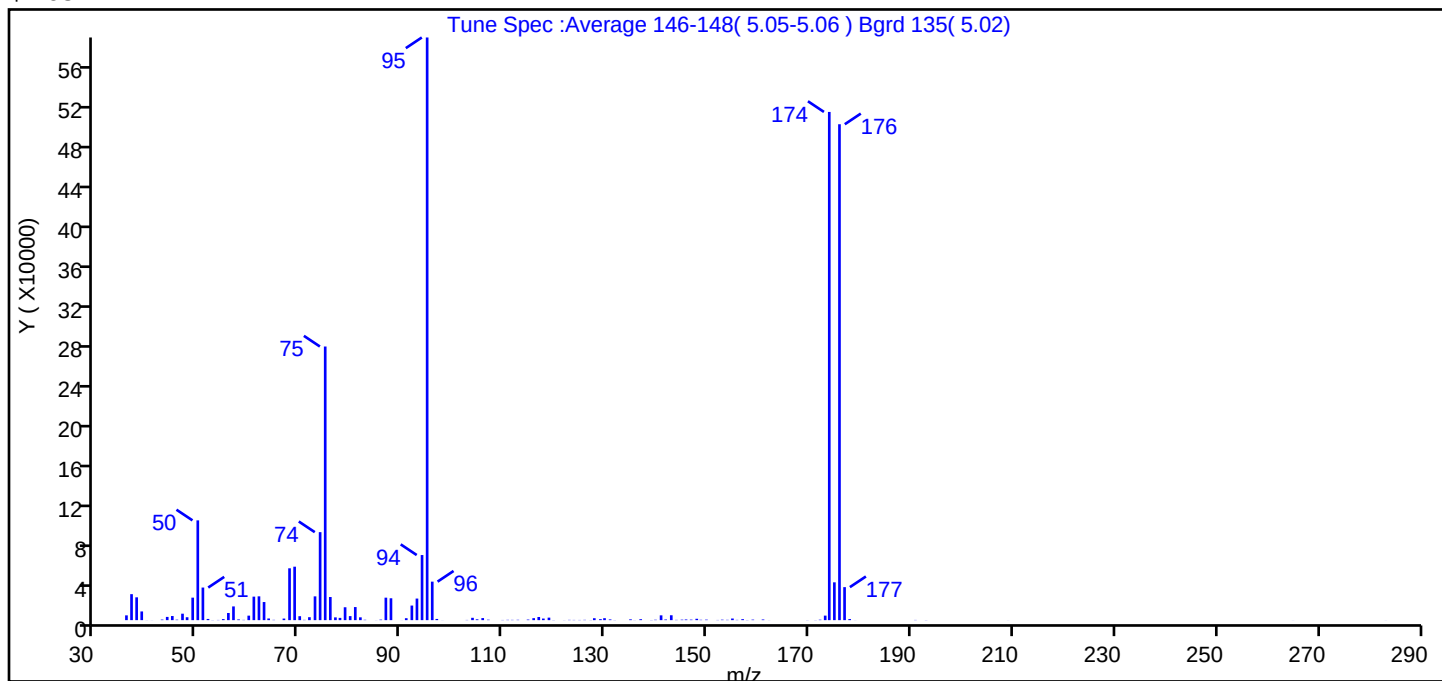
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

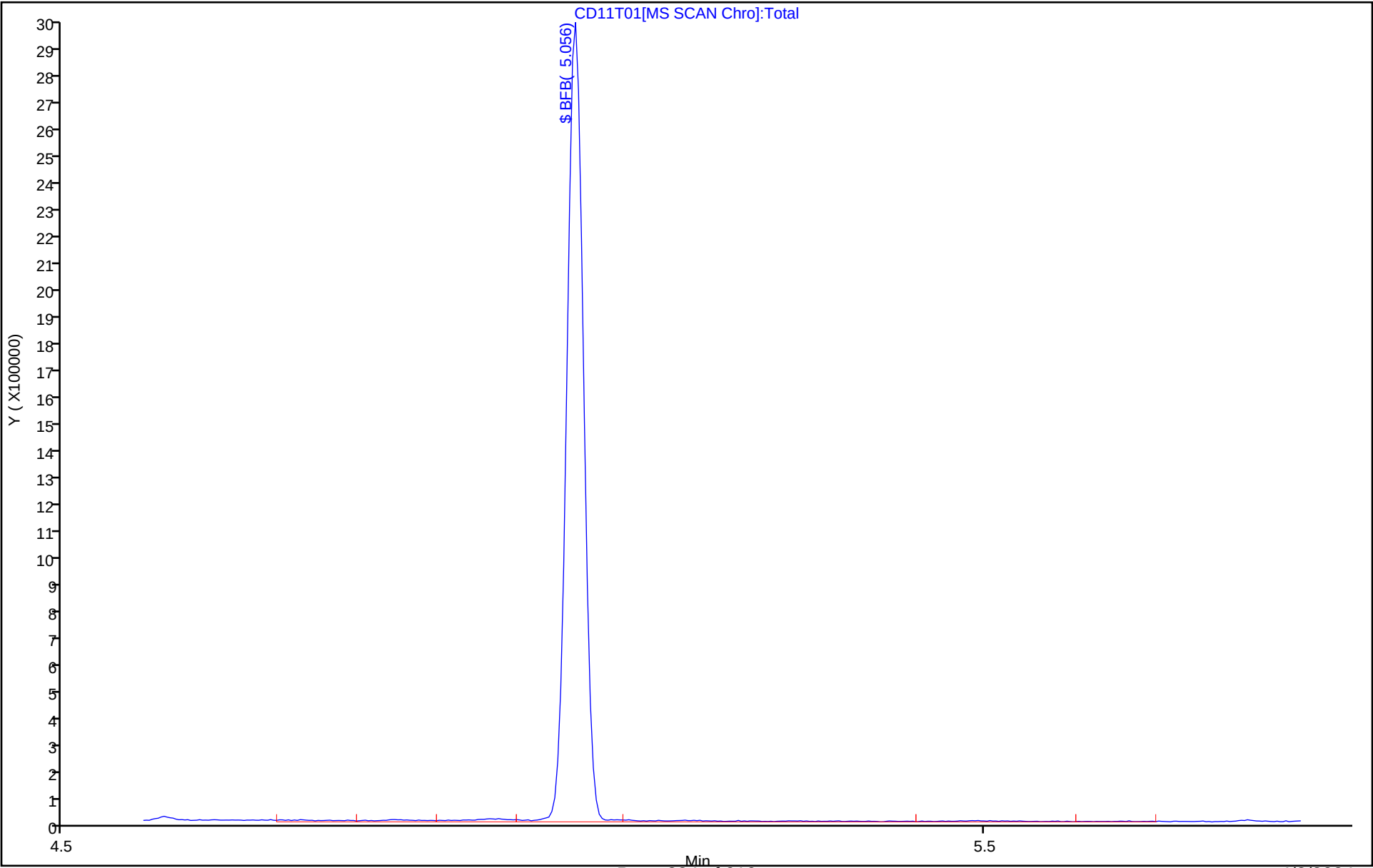
\$ 168 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.1
75	30 to 60% of m/z 95	47.0
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.8 (0.9)
174	50 to 120% of m/z 95	87.2
175	5 to 9% of m/z 174	6.5 (7.4)
176	Greater than 95% but less than 101% of m/z 174	85.1 (97.6)
177	5 to 9% of m/z 176	5.7 (6.7)

Data File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11T01.D\MSV_10193_25mL.rsl\spectra.d
Injection Date: 11-Dec-2023 17:07:30
Spectrum: Tune Spec :Average 146-148(5.05-5.06) Bgrd 135(5.02)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 125

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4802	70.00	3973	110.00	185	147.00	525
37.00	26072	71.00	291	111.00	312	148.00	1366
38.00	22888	72.00	2953	112.00	275	149.00	351
39.00	8733	73.00	23856	113.00	357	150.00	512
40.00	72	74.00	88264	115.00	584	152.00	196
41.00	61	75.00	274496	116.00	1982	153.00	472
43.00	573	76.00	23200	117.00	3161	154.00	312
44.00	3243	77.00	2771	118.00	1592	155.00	1630
45.00	4124	78.00	2277	119.00	2512	156.00	265
46.00	471	79.00	12927	120.00	133	157.00	974
47.00	6476	80.00	4053	122.00	90	158.00	154
48.00	2918	81.00	13114	123.00	276	159.00	527
49.00	22560	82.00	2825	124.00	219	161.00	659
50.00	100096	83.00	364	125.00	200	162.00	62
51.00	32696	85.00	73	126.00	301	170.00	113
52.00	1196	86.00	525	127.00	113	171.00	121
53.00	125	87.00	22544	128.00	1928	172.00	465
54.00	206	88.00	21944	129.00	991	173.00	4539
55.00	1038	90.00	51	130.00	1965	174.00	509824
56.00	7177	91.00	1944	131.00	727	175.00	37936
57.00	13772	92.00	14631	132.00	114	176.00	497472
58.00	728	93.00	21648	135.00	795	177.00	33112
59.00	269	94.00	65304	136.00	81	178.00	1071
60.00	4510	95.00	584512	137.00	936	179.00	58
61.00	23584	96.00	38624	139.00	147	191.00	216
62.00	23880	97.00	1196	140.00	398	193.00	125
63.00	18168	98.00	60	141.00	4812	209.00	54
64.00	1657	103.00	209	142.00	649	265.00	50
65.00	291	104.00	2347	143.00	4904	283.00	54
67.00	1586	105.00	828	144.00	275		
68.00	52016	106.00	2067	145.00	482		
69.00	53624	107.00	447	146.00	677		



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29T02.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 29-Feb-2024 12:18:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0107545-001
Misc. Info.: BFB
Operator ID: knk41612 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Feb-2024 14:54:18 Calib Date: 11-Dec-2023 23:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 168 BFB	95	5.053	5.053	0.000	94	537700	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MSV_V_BFB_00016

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29T02.D

Injection Date: 29-Feb-2024 12:18:30

Instrument ID: 10193

Lims ID: BFB

Client ID:

Operator ID: knk41612

ALS Bottle#: 1

Worklist Smp#: 1

Injection Vol: 1.0 uL

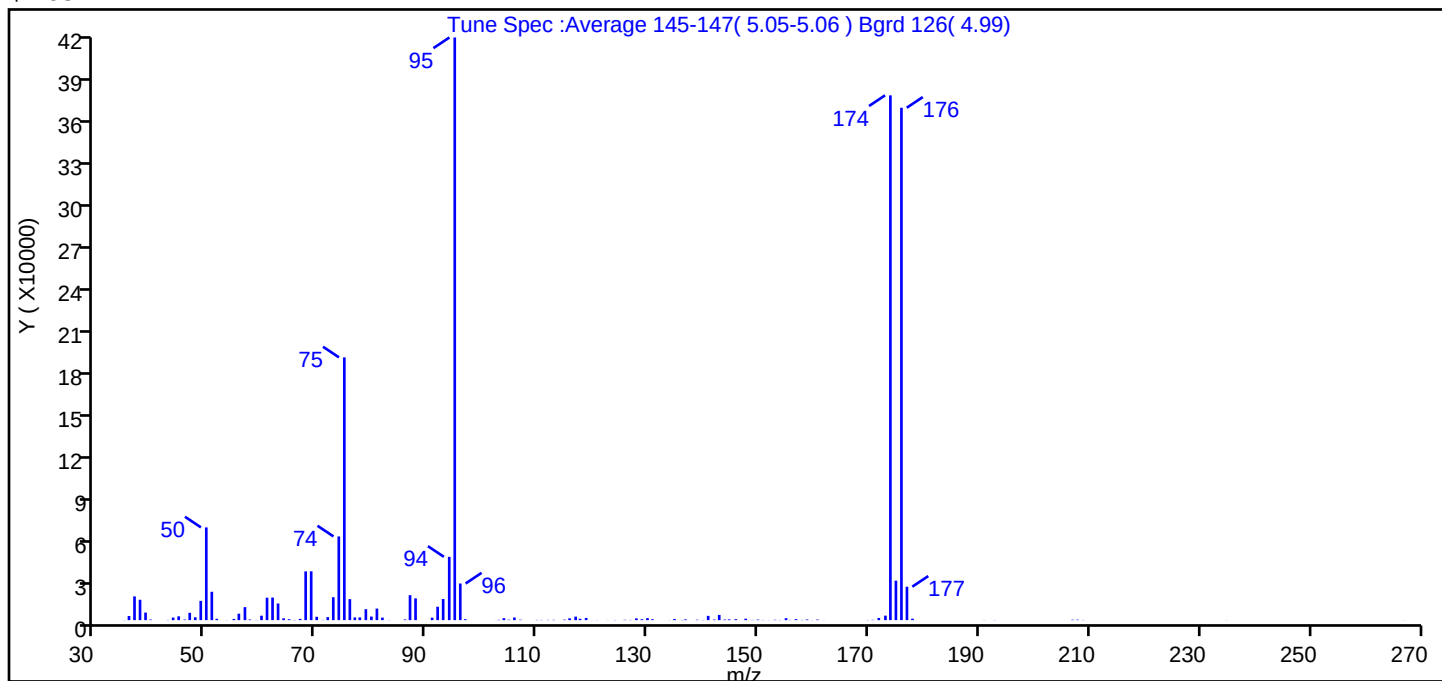
Dil. Factor: 1.0000

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

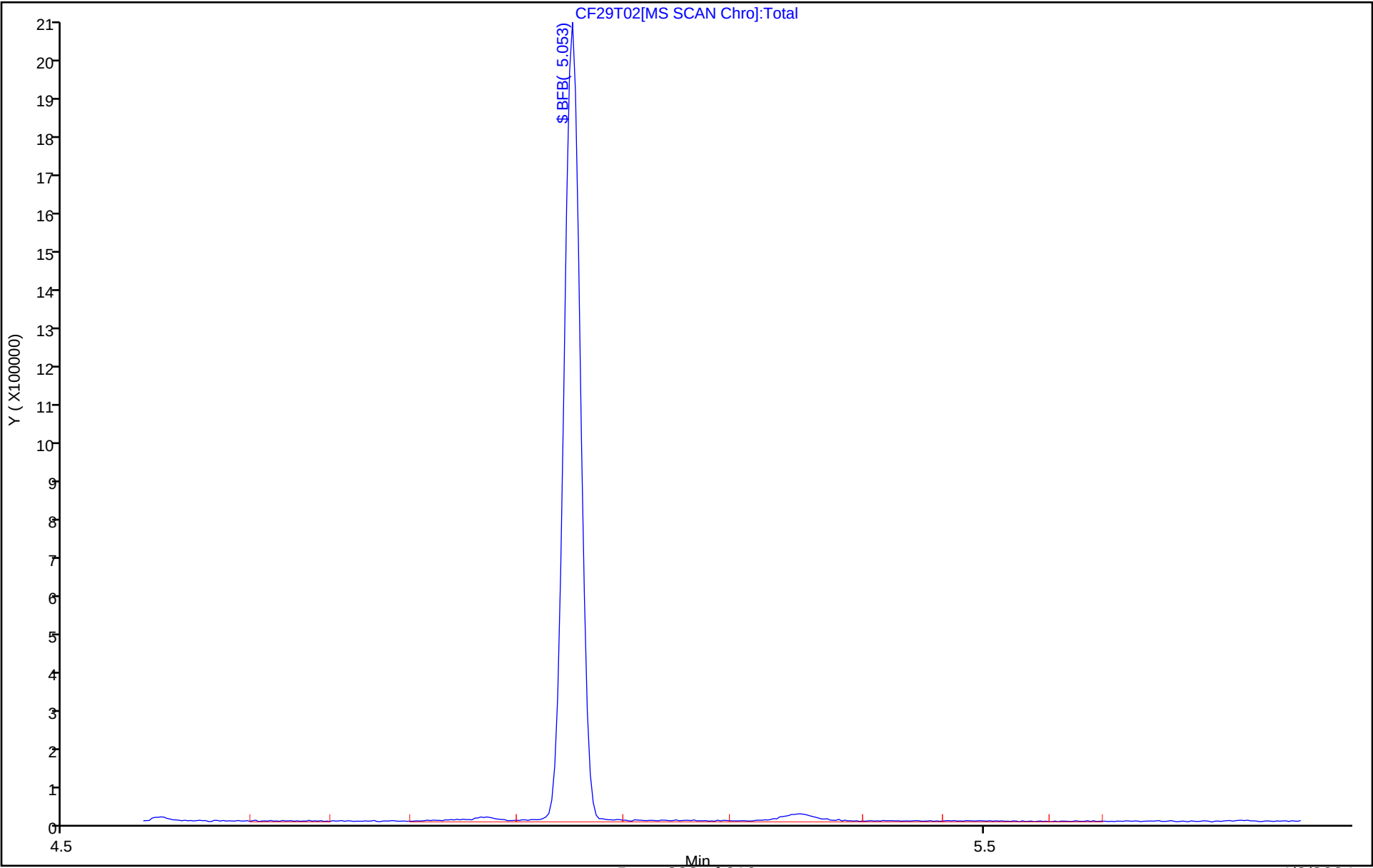
\$ 168 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.9
75	30 to 60% of m/z 95	45.1
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.8 (0.9)
174	50 to 120% of m/z 95	90.1
175	5 to 9% of m/z 174	6.8 (7.5)
176	Greater than 95% but less than 101% of m/z 174	87.9 (97.6)
177	5 to 9% of m/z 176	5.7 (6.5)

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29T02.D\MSV_10193_25mL.rslt\spectra.d
Injection Date: 29-Feb-2024 12:18:30
Spectrum: Tune Spec :Average 145-147(5.05-5.06) Bgrd 126(4.99)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 125

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	89	70.00	2402	112.00	159	150.00	403
36.00	2938	71.00	144	113.00	223	151.00	131
37.00	16904	72.00	2147	115.00	359	152.00	88
38.00	14528	73.00	16325	116.00	1325	153.00	256
39.00	5367	74.00	59624	117.00	2505	154.00	123
40.00	413	75.00	187136	118.00	975	155.00	1369
43.00	134	76.00	14974	119.00	1588	156.00	160
44.00	1849	77.00	1940	120.00	58	157.00	700
45.00	2714	78.00	1957	121.00	70	158.00	164
46.00	416	79.00	7801	123.00	59	159.00	472
47.00	5232	80.00	2558	124.00	119	160.00	71
48.00	2044	81.00	8230	126.00	246	161.00	402
49.00	13734	82.00	1814	127.00	152	162.00	56
50.00	66048	83.00	92	128.00	1267	170.00	125
51.00	20192	86.00	487	129.00	653	171.00	221
52.00	952	87.00	17776	130.00	1426	172.00	1549
54.00	88	88.00	15491	131.00	617	173.00	3197
55.00	838	91.00	1735	133.00	8	174.00	373760
56.00	4589	92.00	9546	134.00	74	175.00	28120
57.00	9268	93.00	15073	135.00	826	176.00	364928
58.00	461	94.00	45088	136.00	158	177.00	23808
59.00	137	95.00	414976	137.00	543	178.00	1045
60.00	3156	96.00	26096	139.00	308	191.00	78
61.00	15982	97.00	665	140.00	137	193.00	95
62.00	16092	102.00	54	141.00	3041	207.00	332
63.00	11837	103.00	237	142.00	416	208.00	344
64.00	1300	104.00	1396	143.00	3715	209.00	131
65.00	647	105.00	303	144.00	418	235.00	51
66.00	152	106.00	1866	145.00	570	267.00	61
67.00	883	107.00	302	146.00	681		
68.00	34704	110.00	179	148.00	1022		
69.00	34776	111.00	155	149.00	154		



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 17-Oct-2023 03:41:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0096799-001
Misc. Info.: BFB
Operator ID: GAW91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 20-Oct-2023 12:53:17 Calib Date: 17-Oct-2023 09:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

First Level Reviewer: JS6E

Date: 17-Oct-2023 04:00:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 166 BFB	95	5.081	5.081	0.000	91	322712	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MSV_V_BFB_00012

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16T01.D

Injection Date: 17-Oct-2023 03:41:30

Instrument ID: 19094

Lims ID: bfb

Client ID:

Operator ID: GAW91131

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

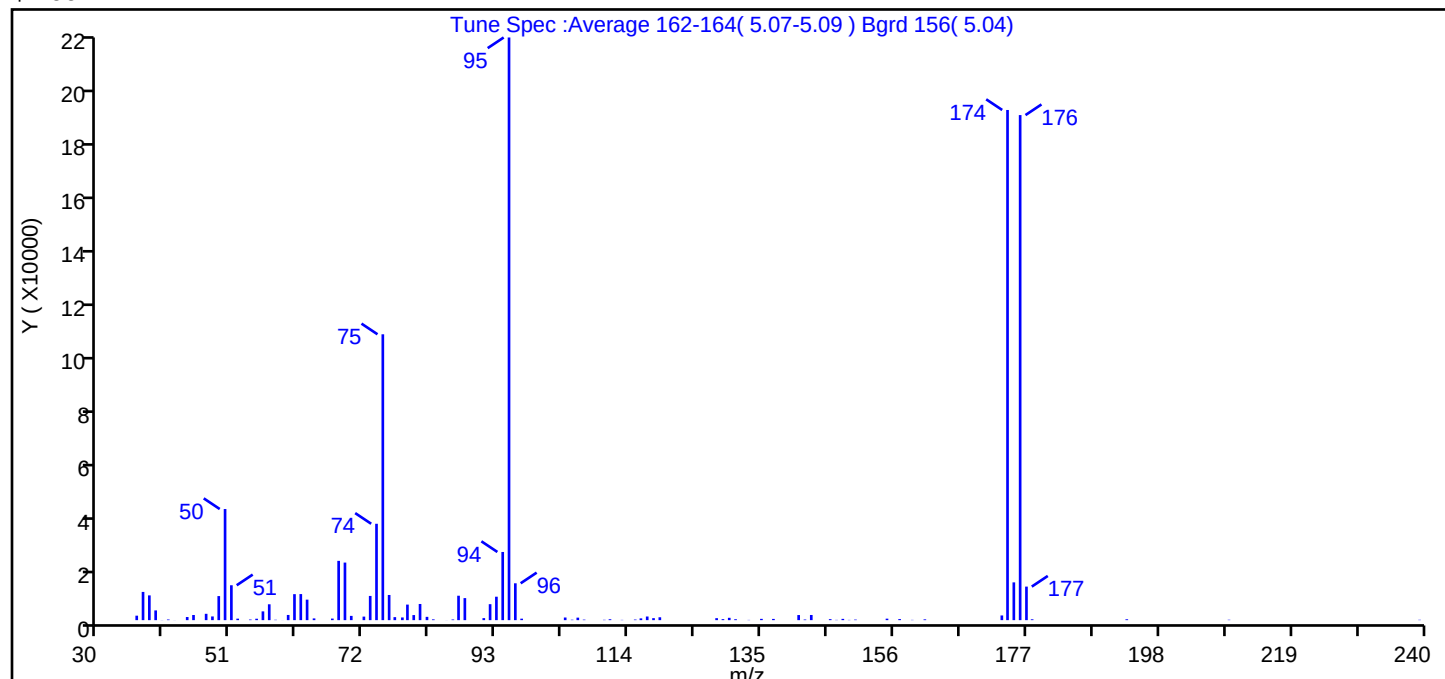
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

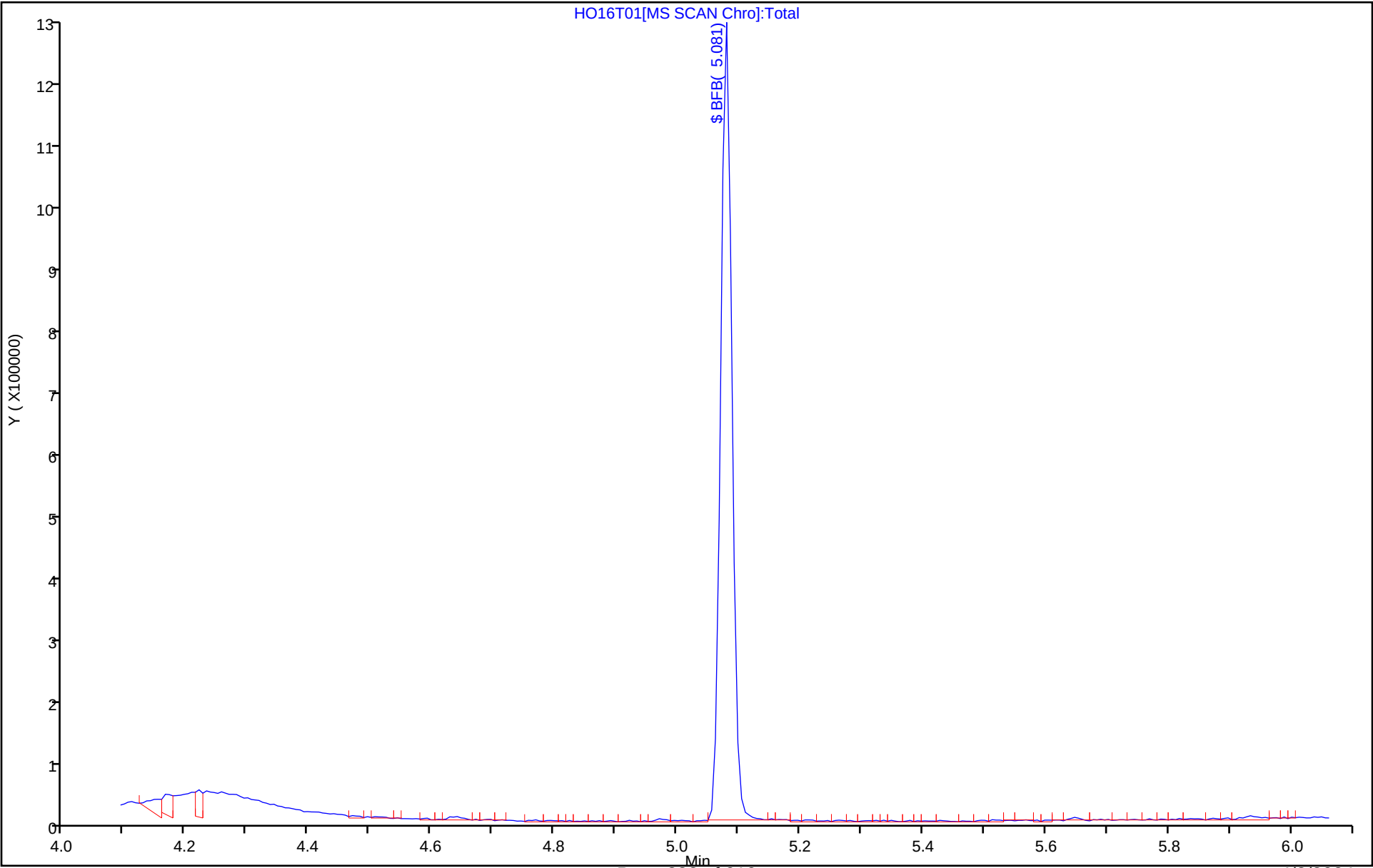
\$ 166 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.1
75	30 to 60% of m/z 95	49.1
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.8 (0.9)
174	50 to 120% of m/z 95	87.6
175	5 to 9% of m/z 174	6.5 (7.4)
176	Greater than 95% but less than 101% of m/z 174	86.7 (99.0)
177	5 to 9% of m/z 176	5.8 (6.6)

Data File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16T01.D\MSV_19094_25mL.rsl\spectra.d
Injection Date: 17-Oct-2023 03:41:30
Spectrum: Tune Spec :Average 162-164(5.07-5.09) Bgrd 156(5.04)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1625	63.00	7457	93.00	8523	141.00	1854
37.00	10264	64.00	630	94.00	24792	142.00	229
38.00	9004	67.00	572	95.00	211904	143.00	1875
39.00	3541	68.00	21560	96.00	13401	146.00	358
40.00	33	69.00	20936	97.00	538	147.00	94
41.00	235	70.00	1548	104.00	958	148.00	464
42.00	24	72.00	1287	105.00	154	149.00	88
44.00	1135	73.00	8804	106.00	908	150.00	201
45.00	1869	74.00	35048	107.00	188	155.00	537
47.00	2305	75.00	103960	110.00	122	157.00	385
48.00	1344	76.00	9154	111.00	326	159.00	96
49.00	8751	77.00	1094	113.00	93	161.00	286
50.00	40408	78.00	977	115.00	216	173.00	1704
51.00	12688	79.00	5655	116.00	641	174.00	185536
52.00	538	80.00	1844	117.00	1322	175.00	13737
54.00	223	81.00	5876	118.00	724	176.00	183680
55.00	513	82.00	1198	119.00	1046	177.00	12197
56.00	3189	83.00	282	128.00	718	178.00	304
57.00	5767	85.00	21	129.00	364	193.00	314
58.00	135	86.00	241	130.00	849	209.00	143
59.00	16	87.00	8881	131.00	331	239.00	127
60.00	1887	88.00	8015	133.00	86		
61.00	9449	91.00	735	135.00	470		
62.00	9480	92.00	5806	137.00	447		



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28T01.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 28-Feb-2024 17:52:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0107468-001
Misc. Info.: BFB
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Feb-2024 20:34:52 Calib Date: 17-Oct-2023 09:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1673

First Level Reviewer: JS6E

Date: 28-Feb-2024 18:50:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 166 BFB	95	5.038	5.038	0.000	90	208849	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MSV_V_BFB_00016

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28T01.D

Injection Date: 28-Feb-2024 17:52:30

Instrument ID: 19094

Lims ID: BFB

Client ID:

Operator ID: gaw91131

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

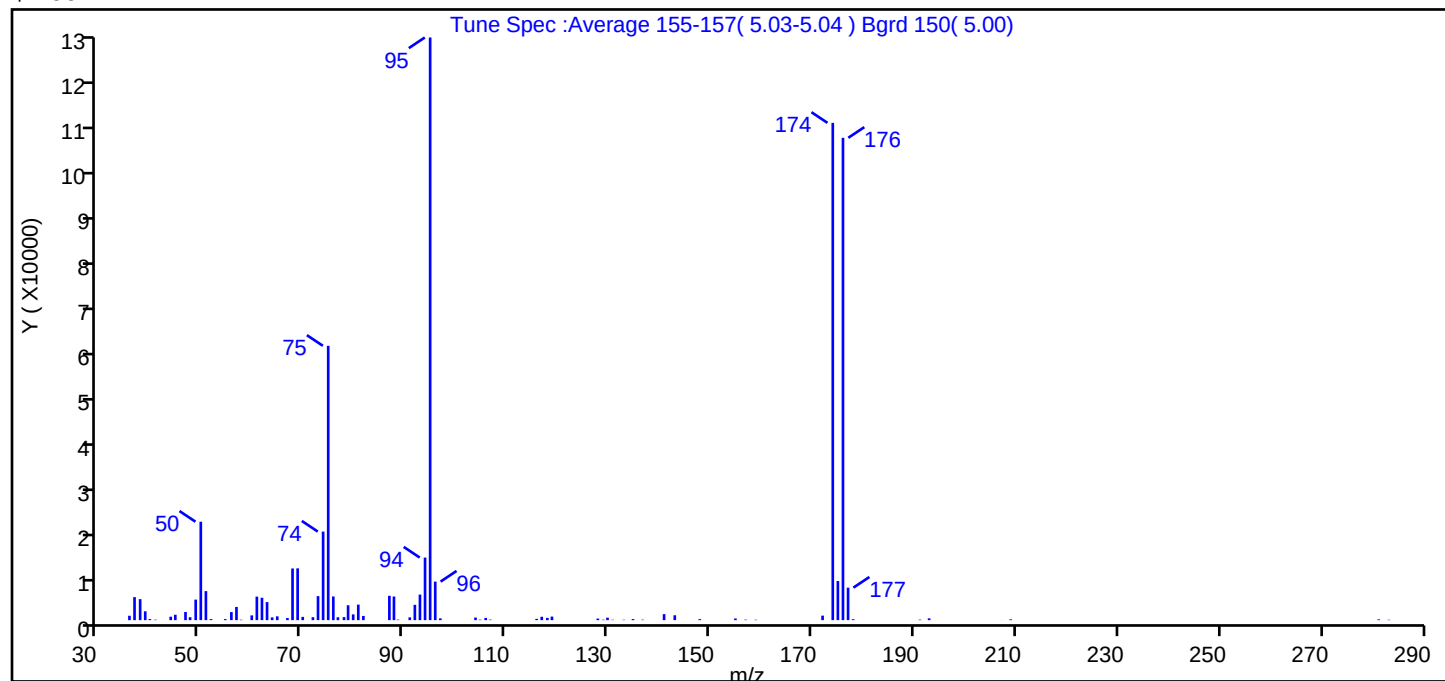
Dil. Factor: 1.0000

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	16.9
75	30 to 60% of m/z 95	47.1
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	85.3
175	5 to 9% of m/z 174	6.7 (7.9)
176	Greater than 95% but less than 101% of m/z 174	82.8 (97.0)
177	5 to 9% of m/z 176	5.6 (6.7)

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28T01.D\MSV_19094_25mL.rslt\spectra.d
Injection Date: 28-Feb-2024 17:52:30
Spectrum: Tune Spec :Average 155-157(5.03-5.04) Bgrd 150(5.00)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 82

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	953	63.00	3904	91.00	605	137.00	100
37.00	4983	64.00	592	92.00	3315	141.00	1301
38.00	4543	65.00	821	93.00	5525	143.00	1055
39.00	1913	67.00	453	94.00	13532	148.00	221
40.00	233	68.00	11176	95.00	126008	155.00	368
41.00	100	69.00	11201	96.00	8334	157.00	105
44.00	743	70.00	706	97.00	388	159.00	92
45.00	1162	72.00	640	104.00	561	172.00	976
47.00	1758	73.00	5197	105.00	104	174.00	107544
48.00	628	74.00	19152	106.00	486	175.00	8461
49.00	4441	75.00	59328	107.00	114	176.00	104312
50.00	21288	76.00	5118	116.00	273	177.00	7026
51.00	6279	77.00	618	117.00	731	178.00	202
52.00	228	78.00	656	118.00	487	191.00	116
55.00	235	79.00	3219	119.00	771	193.00	387
56.00	1743	80.00	1245	128.00	343	207.00	12
57.00	2859	81.00	3354	129.00	101	209.00	177
58.00	96	82.00	911	130.00	540	281.00	165
60.00	1027	87.00	5263	131.00	86	283.00	90
61.00	5094	88.00	5110	133.00	85		
62.00	4842	89.00	109	135.00	239		

Report Date: 28-Feb-2024 20:34:53

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28T01.D

Injection Date: 28-Feb-2024 17:52:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

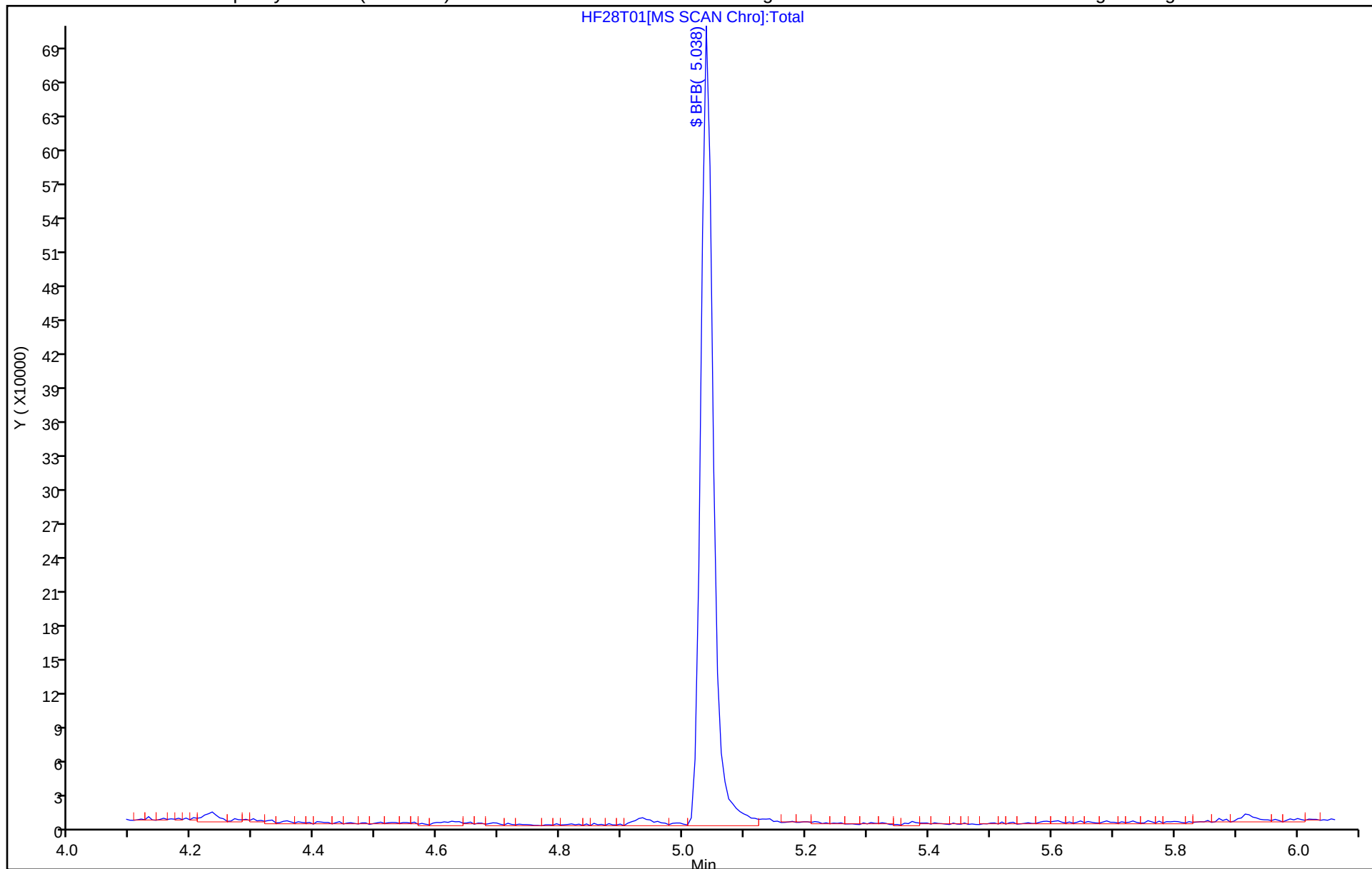
ALS Bottle#: 1

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.: 410-161790-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-478015/7

Matrix: Water

Lab File ID: HF28X06.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 02/28/2024 19:47

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.: 478015

Units: ug/L

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	1.0
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
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-478015/7

Matrix: Water

Lab File ID: HF28X06.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 02/28/2024 19:47

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.: 478015

Units: ug/L

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

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

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X06.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 28-Feb-2024 19:47:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107468-007
 Misc. Info.: MB
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 29-Feb-2024 13:58:30 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1617

First Level Reviewer: JS6E

Date: 28-Feb-2024 20:33:41

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					ND	
2 Dichlorodifluoromethane	85		1.867					ND	
3 Chlorodifluoromethane	51		1.879					ND	
4 Dimethyl ether	45		1.946					ND	
5 Chloromethane	50		2.056					ND	
6 Vinyl chloride	62		2.172					ND	
7 Butadiene	39		2.178					ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.239					ND	
9 Bromomethane	94		2.489					ND	
10 Chloroethane	64		2.562					ND	
11 Dichlorofluoromethane	67		2.788					ND	
12 Trichlorofluoromethane	101		2.867					ND	
14 Ethyl ether	59		3.093					ND	
13 Ethanol	45		3.111					ND	
15 1,2-Dichloro-1,1,2-trifluoroetha	67		3.172					ND	
16 Acrolein	56		3.263					ND	
17 1,1-Dichloroethene	96		3.385					ND	
19 Acetone	43		3.410					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.422					ND	
21 Iodomethane	142		3.568					ND	
22 Ethyl bromide	108		3.599					ND	
23 Carbon disulfide	76		3.672					ND	7
25 Acetonitrile	41		3.794					ND	
24 Methyl acetate	43		3.830					ND	
26 3-Chloro-1-propene	41		3.837					ND	
27 Methylene Chloride	84		4.013					ND	
* 28 t-Butyl alcohol-d10 (IS)	65	4.025	4.038	-0.013	26	72068	50.0	50.0	
29 2-Methyl-2-propanol	59		4.178					ND	7
31 Acrylonitrile	53		4.343					ND	
32 Methyl tert-butyl ether	73		4.410					ND	
33 trans-1,2-Dichloroethene	96		4.422					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		4.849					ND	
35 Vinyl acetate	43		5.056					ND	
36 1,1-Dichloroethane	63		5.080					ND	
37 Isopropyl ether	45		5.141					ND	
38 2-Chloro-1,3-butadiene	53		5.190					ND	
40 Tert-butyl ethyl ether	59		5.678					ND	
41 2-Butanone (MEK)	43		5.873					ND	
42 cis-1,2-Dichloroethene	96		5.909					ND	
43 2,2-Dichloropropane	77		5.921					ND	
45 Ethyl acetate	43		5.946					ND	
44 Propionitrile	54		5.958					ND	
S 46 1,2-Dichloroethene, Total	100		6.155					ND	7
47 Methacrylonitrile	67		6.171					ND	
48 Chlorobromomethane	128		6.238					ND	
49 Tetrahydrofuran	71		6.257					ND	
50 Chloroform	83		6.391					ND	
51 Methyl acrylate	55		6.482					ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.616	6.604	0.012	94	429215	10.0	9.39	
53 1,1,1-Trichloroethane	97		6.623					ND	
54 Cyclohexane	56		6.726					ND	
56 Carbon tetrachloride	117		6.836					ND	
55 1,1-Dichloropropene	75		6.836					ND	
57 Isobutyl alcohol	41		6.988					ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.067	7.061	0.006	47	89149	10.0	10.3	
59 Benzene	78		7.098					ND	
60 1,2-Dichloroethane	62		7.165					ND	
61 Isopropyl acetate	43		7.189					ND	
62 1-Chlorobutane	56	7.500	7.250	0.250	35	9374		NC	
63 Tert-amyl methyl ether	73		7.293					ND	
* 64 Fluorobenzene (IS)	96	7.506	7.500	0.006	99	1804134	10.0	10.0	
65 n-Heptane	43		7.519					ND	7
66 t-Amyl alcohol	73		7.842					ND	
67 n-Butanol	56		7.878					ND	
68 Trichloroethene	95		7.982					ND	
69 Methylcyclohexane	83		8.293					ND	
70 1,2-Dichloropropane	63		8.311					ND	
71 2-ethoxy-2-methyl butane	87		8.330					ND	
72 Methyl methacrylate	69		8.409					ND	
73 1,4-Dioxane	88		8.409					ND	
74 Dibromomethane	93		8.427					ND	
75 n-Propyl acetate	61		8.506					ND	
76 Dichlorobromomethane	83		8.659					ND	
77 2-Nitropropane	41		8.921					ND	
78 2-Chloroethyl vinyl ether	63		9.049					ND	
79 1-Bromo-2-chloroethane	63		9.055					ND	
80 cis-1,3-Dichloropropene	75		9.214					ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.396					ND	
81 Chloroacetonitrile	75		9.427					ND	
\$ 83 Toluene-d8 (Surr)	98	9.536	9.531	0.005	93	1861806	10.0	9.44	
84 Toluene	92		9.610					ND	
85 trans-1,3-Dichloropropene	75		9.872					ND	
104 Ethyl methacrylate	69		9.945					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		10.244					ND	
109 2-Hexanone	43		10.299					ND	
110 n-Butyl acetate	43		10.463					ND	
111 Chlorodibromomethane	129		10.463					ND	
112 Ethylene Dibromide	107		10.573					ND	
* 113 Chlorobenzene-d5 (IS)	117	11.012	11.012	0.000	85	1492327	10.0	10.0	
114 1-Chlorohexane	91		11.024					ND	7
115 Chlorobenzene	112		11.036					ND	
116 1,1,1,2-Tetrachloroethane	131		11.122					ND	
117 Ethylbenzene	91		11.122					ND	
119 m-Xylene & p-Xylene	106		11.244					ND	
S 118 Xylenes, Total	106		11.245					ND	7
120 o-Xylene	106		11.573					ND	
121 Styrene	104		11.585					ND	
122 Bromoform	173		11.744					ND	
123 Isopropylbenzene	105		11.872					ND	
124 cis-1,4-Dichloro-2-butene	88		11.963					ND	U
125 Cyclohexanone	55		11.999					ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.018	12.018	0.000	93	695228	10.0	9.41	
127 1,1,2,2-Tetrachloroethane	83		12.115					ND	
128 Bromobenzene	156		12.134					ND	
129 trans-1,4-Dichloro-2-butene	53		12.140					ND	
130 1,2,3-Trichloropropane	110		12.164					ND	
131 N-Propylbenzene	91		12.201					ND	
132 2-Chlorotoluene	126		12.274					ND	
133 1,3,5-Trimethylbenzene	105		12.335					ND	
134 4-Chlorotoluene	126		12.371					ND	
135 tert-Butylbenzene	134		12.579					ND	
136 Pentachloroethane	167		12.609					ND	
137 1,2,4-Trimethylbenzene	105		12.621					ND	7
138 sec-Butylbenzene	105		12.743					ND	7
139 1,3-Dichlorobenzene	146		12.841					ND	7
140 4-Isopropyltoluene	119		12.847					ND	7
* 141 1,4-Dichlorobenzene-d4	152	12.896	12.896	0.000	94	800786	10.0	10.0	
142 1,4-Dichlorobenzene	146		12.914					ND	7
143 1,2,3-Trimethylbenzene	120		12.920					ND	7
144 Benzyl chloride	126		12.987					ND	
145 p-Diethylbenzene	119		13.121					ND	U
146 n-Butylbenzene	92		13.140					ND	7
147 1,2-Dichlorobenzene	146		13.170					ND	
148 Hexachloroethane	201		13.682					ND	
149 1,2-Dibromo-3-Chloropropane	155		13.713					ND	
150 1,3,5-Trichlorobenzene	180		13.841					ND	7
151 1,2,4-Trichlorobenzene	180		14.261					ND	7
152 Hexachlorobutadiene	225		14.341					ND	U
153 Naphthalene	128		14.438					ND	7
154 1,2,3-Trichlorobenzene	180	14.603	14.578	0.025	86	2014		0.0519	
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

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 29-Feb-2024 13:58:31

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X06.D

Injection Date: 28-Feb-2024 19:47:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

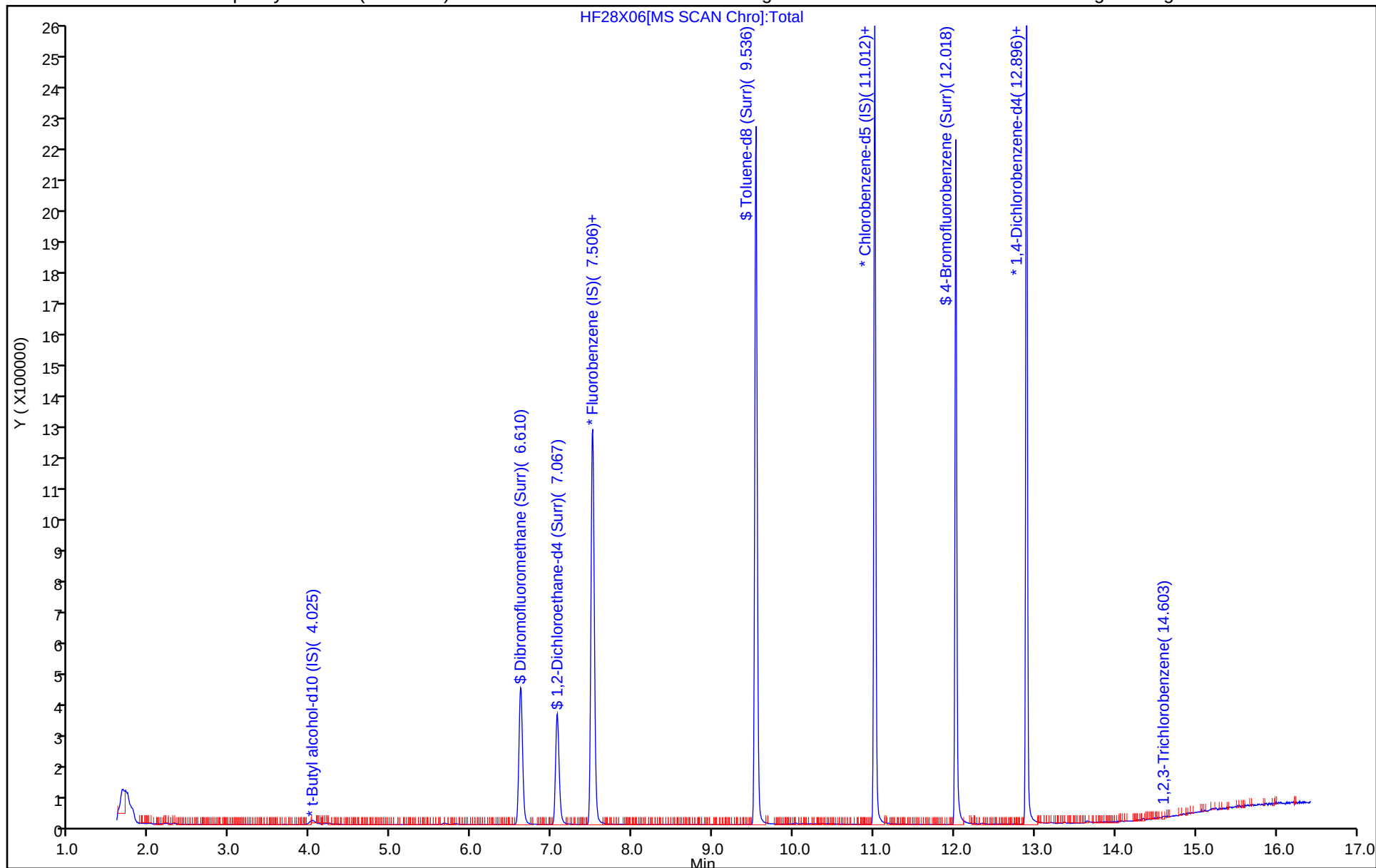
ALS Bottle#: 6

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
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X06.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 28-Feb-2024 19:47:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107468-007
Misc. Info.: MB
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Feb-2024 13:58:30 Calib Date: 17-Oct-2023 09:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: JS6E

Date: 28-Feb-2024 20:33:41

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.39	93.90
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.45
\$ 83 Toluene-d8 (Surr)	10.0	9.44	94.39
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.41	94.13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-478337/7

Matrix: Water

Lab File ID: CF29X06.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 14:20

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.: 478337

Units: ug/L

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	1.0
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
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-478337/7

Matrix: Water

Lab File ID: CF29X06.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 14:20

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.: 478337

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	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)	109		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X06.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 29-Feb-2024 14:20:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107545-007
 Operator ID: knk41612 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 29-Feb-2024 14:52:14 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1632

First Level Reviewer: DVW2

Date: 29-Feb-2024 14:51:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.787					ND	
2 Dichlorodifluoromethane	85		1.823					ND	
3 Chlorodifluoromethane	51		1.836					ND	U
4 Dimethyl ether	45		1.884					ND	7
5 Chloromethane	50		2.006					ND	
6 Vinyl chloride	62		2.110					ND	
7 Butadiene	39		2.116					ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.183					ND	
9 Bromomethane	94		2.408					ND	
10 Chloroethane	64		2.476					ND	
11 Dichlorofluoromethane	67		2.701					ND	
12 Trichlorofluoromethane	101		2.762					ND	
13 Pentane	43		2.774					ND	U
14 Ethyl ether	59		2.963					ND	
16 1,2-Dichloro-1,1,2-trifluoroetha	67		3.061					ND	
17 Acrolein	56		3.122					ND	7
18 1,1-Dichloroethene	96		3.238					ND	
20 Acetone	43		3.268					ND	7
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.286					ND	
22 Iodomethane	142		3.414					ND	
24 Isopropyl alcohol	45		3.420					ND	
23 Ethyl bromide	108		3.445					ND	
25 Carbon disulfide	76		3.506					ND	MU
27 Acetonitrile	41		3.616					ND	
26 Methyl acetate	43		3.652					ND	7
29 3-Chloro-1-propene	41		3.670					ND	
30 Methylene Chloride	84		3.841					ND	
* 31 t-Butyl alcohol-d10 (IS)	65	3.847	3.847	0.000	97	170836	50.0	50.0	
32 2-Methyl-2-propanol	59		3.963					ND	U
33 Acrylonitrile	53		4.152					ND	
34 Methyl tert-butyl ether	73		4.201					ND	
35 trans-1,2-Dichloroethene	96		4.213					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Hexane	57		4.634					ND	7
38 Vinyl acetate	43		4.859					ND	
37 1,1-Dichloroethane	63		4.871					ND	
39 Isopropyl ether	45		4.932					ND	
40 2-Chloro-1,3-butadiene	53		4.981					ND	
41 Tert-butyl ethyl ether	59		5.475					ND	7
42 2-Butanone (MEK)	43		5.688					ND	7
43 cis-1,2-Dichloroethene	96		5.719					ND	
44 2,2-Dichloropropane	77		5.731					ND	7
46 Ethyl acetate	43		5.762					ND	7
45 Propionitrile	54		5.780					ND	
47 Methacrylonitrile	67		6.011					ND	
51 Methyl acrylate	55		6.013					ND	
48 Chlorobromomethane	128		6.048					ND	
49 Tetrahydrofuran	71		6.060					ND	
S 52 1,2-Dichloroethene, Total	100		6.155					ND	7
50 Chloroform	83		6.213					ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.426	6.432	-0.006	94	531481	10.0	10.5	
53 1,1,1-Trichloroethane	97		6.432					ND	
55 Cyclohexane	56		6.530					ND	
56 Carbon tetrachloride	117		6.639					ND	
57 1,1-Dichloropropene	75		6.652					ND	
62 1-Chlorobutane	56		6.781					ND	
58 Isobutyl alcohol	41		6.834					ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.896	6.889	0.007	99	111831	10.0	10.9	
60 Benzene	78		6.920					ND	
61 1,2-Dichloroethane	62		6.999					ND	
63 Isopropyl acetate	43		7.024					ND	
64 Tert-amyl methyl ether	73		7.121					ND	
* 65 Fluorobenzene (IS)	96	7.334	7.334	0.000	99	2262943	10.0	10.0	
66 n-Heptane	43		7.353					ND	7
67 n-Butanol	56		7.737					ND	
68 Trichloroethene	95		7.822					ND	
69 Methylcyclohexane	83		8.127					ND	
70 1,2-Dichloropropane	63		8.157					ND	
71 2-ethoxy-2-methyl butane	87		8.182					ND	
74 1,4-Dioxane	88		8.255					ND	
73 Methyl methacrylate	69		8.261					ND	
72 Dibromomethane	93		8.267					ND	
75 n-Propyl acetate	61		8.353					ND	
76 Dichlorobromomethane	83		8.517					ND	
77 2-Nitropropane	41		8.804					ND	
79 2-Chloroethyl vinyl ether	63		8.901					ND	
78 1-Bromo-2-chloroethane	63		8.913					ND	
81 Chloroacetonitrile	75		9.067					ND	
80 cis-1,3-Dichloropropene	75		9.090					ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.291					ND	7
\$ 83 Toluene-d8 (Surr)	98	9.413	9.419	-0.006	93	2302610	10.0	10.1	
84 Toluene	92		9.499					ND	7
85 trans-1,3-Dichloropropene	75		9.779					ND	7
86 Ethyl methacrylate	69		9.852					ND	
87 1,1,2-Trichloroethane	97		9.992					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 107 1,3-Dichloropropene, Total	100		10.060					ND	7
88 Tetrachloroethene	166		10.072					ND	
89 1,3-Dichloropropane	76		10.163					ND	
106 2-Hexanone	43		10.230					ND	7
109 n-Butyl acetate	43		10.358					ND	U
108 Chlorodibromomethane	129		10.383					ND	
110 Ethylene Dibromide	107		10.492					ND	
* 111 Chlorobenzene-d5 (IS)	117	10.944	10.943	0.001	84	1795683	10.0	10.0	
112 1-Chlorohexane	91		10.962					ND	7
113 Chlorobenzene	112		10.974					ND	7
114 1,1,1,2-Tetrachloroethane	131		11.059					ND	
115 Ethylbenzene	91		11.065					ND	
116 m-Xylene & p-Xylene	106		11.187					ND	7
S 117 Xylenes, Total	106		11.245					ND	7
118 o-Xylene	106		11.523					ND	
119 Styrene	104		11.541					ND	7
120 Bromoform	173		11.693					ND	7
121 Isopropylbenzene	105		11.833					ND	
122 cis-1,4-Dichloro-2-butene	88		11.895					ND	
123 Cyclohexanone	55		11.919					ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	95	826560	10.0	9.07	
126 1,1,2,2-Tetrachloroethane	83		12.090					ND	
125 Bromobenzene	156		12.096					ND	7
127 trans-1,4-Dichloro-2-butene	53		12.120					ND	
128 1,2,3-Trichloropropane	110		12.138					ND	
129 N-Propylbenzene	91		12.175					ND	
130 2-Chlorotoluene	126		12.248					ND	7
131 1,3,5-Trimethylbenzene	105		12.315					ND	7
132 4-Chlorotoluene	126		12.339					ND	7
133 tert-Butylbenzene	134		12.559					ND	
134 Pentachloroethane	167		12.589					ND	
135 1,2,4-Trimethylbenzene	105		12.602					ND	7
136 sec-Butylbenzene	105		12.730					ND	
137 1,3-Dichlorobenzene	146		12.821					ND	7
138 4-Isopropyltoluene	119		12.839					ND	7
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.882	0.000	93	1021728	10.0	10.0	
140 1,4-Dichlorobenzene	146		12.900					ND	7
141 1,2,3-Trimethylbenzene	120		12.913					ND	7
142 Benzyl chloride	126		12.980					ND	7
145 p-Diethylbenzene	119		13.114					ND	U
143 n-Butylbenzene	92		13.138					ND	7
144 1,2-Dichlorobenzene	146		13.162					ND	7
147 Hexachloroethane	117		13.444					ND	
148 1,2-Dibromo-3-Chloropropane	155		13.717					ND	
149 1,3,5-Trichlorobenzene	180		13.839					ND	7
150 1,2,4-Trichlorobenzene	180		14.272					ND	7
151 Hexachlorobutadiene	225		14.357					ND	7
152 Naphthalene	128	14.455	14.455	0.000	94	4428		0.0300	
153 1,2,3-Trichlorobenzene	180	14.601	14.601	0.000	92	2363		0.0324	
154 2-Methylnaphthalene	142	15.211	15.217	-0.006	86	2032		0.0513	
155 Dodecane	57		0.000					ND	
156 1,1-Dichloro-1-fluoroethane	1		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 tert-Butyl Formate	1		0.000					ND	
158 2-Bromo-1-chloropropane	1		0.000					ND	
159 1-Chloropropane	1		0.000					ND	
160 1,1-Dichloroacetone	1		0.000					ND	
161 Methylal	1		0.000					ND	
162 Propene oxide	1		0.000					ND	
163 t-Amyl alcohol	1		0.000					ND	
164 Ethanol	45		0.000					ND	
165 n-Decane	57		0.000					ND	
166 1-Bromo-3-Chloropropane	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

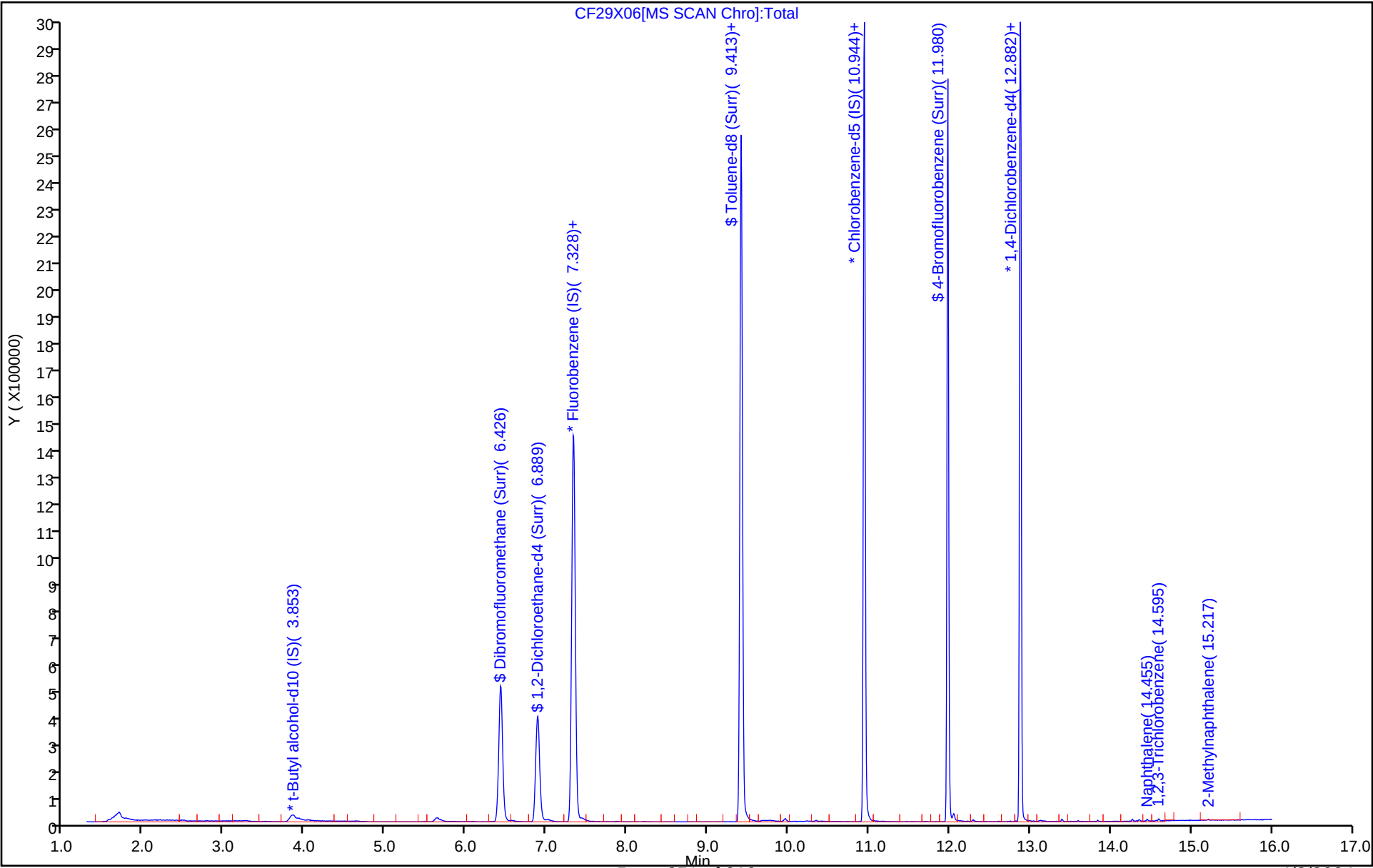
Reagents:

MSV_HP25_ISSS_00084

Amount Added: 1.00

Units: uL

Run Reagent



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X06.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 29-Feb-2024 14:20:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107545-007
Operator ID: knk41612 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Feb-2024 14:52:14 Calib Date: 11-Dec-2023 23:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: DVW2

Date: 29-Feb-2024 14:51:49

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.5	105.30
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.9	109.48
\$ 83 Toluene-d8 (Surr)	10.0	10.1	101.44
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.07	90.68

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X06.D

Injection Date: 29-Feb-2024 14:20:30

Instrument ID: 10193

Lims ID: MB

Client ID:

Operator ID: knk41612

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_10193_25mL

Limit Group:

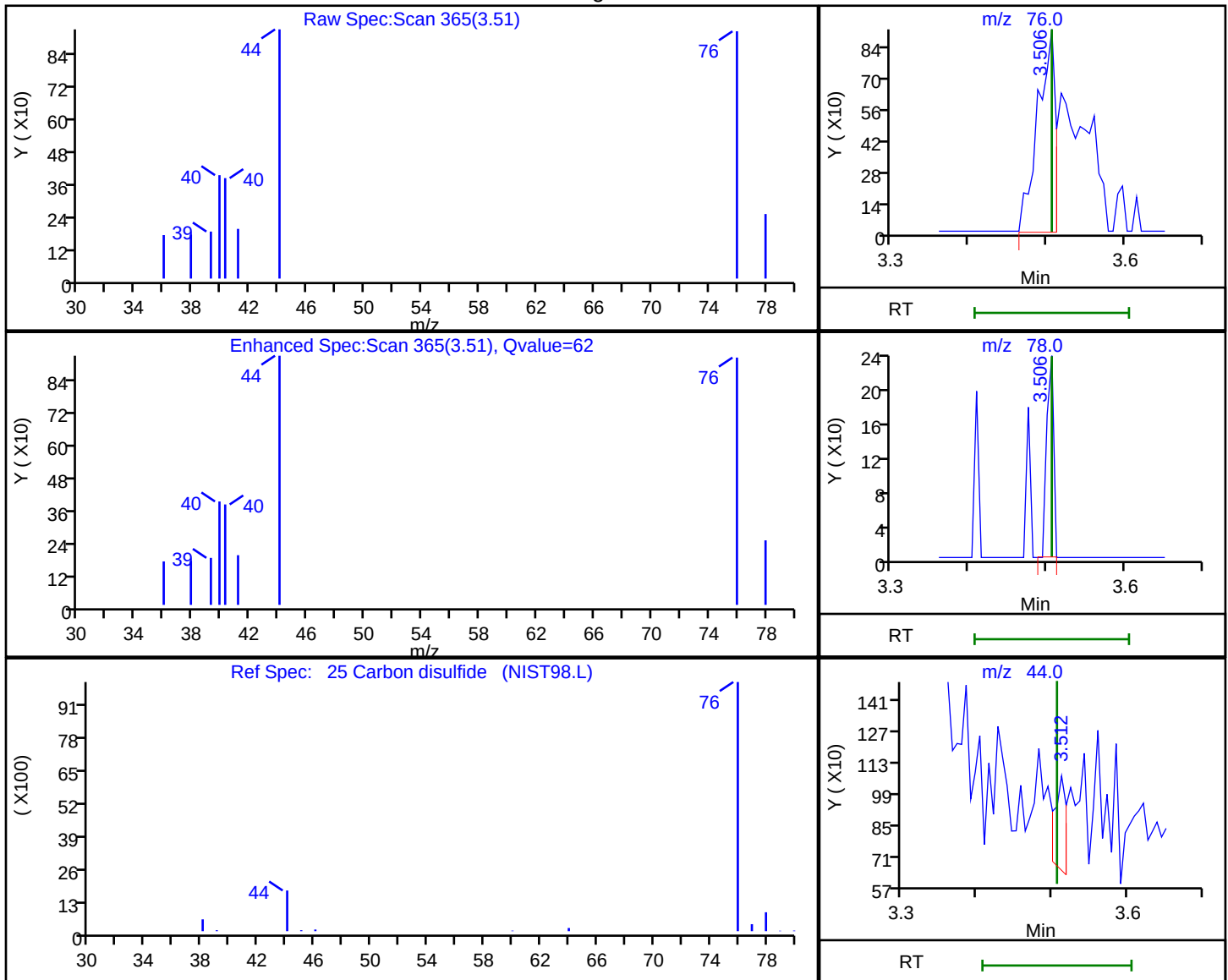
MSV - 8260C_D

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

MS Quad

25 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.51	76.00	1448	0.008231
3.51	78.00	149	
3.51	44.00	451	

Reviewer: DVW2, 29-Feb-2024 14:50:44 -05:00:00 (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.: 410-161790-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-478015/4

Matrix: Water

Lab File ID: HF28X03.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 02/28/2024 18:46

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.: 478015

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.95		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.95		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.86		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.24		0.50	0.080
75-34-3	1,1-Dichloroethane	5.80		0.50	0.10
75-35-4	1,1-Dichloroethene	5.04		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.02		0.50	0.080
107-06-2	1,2-Dichloroethane	5.00		0.50	0.070
78-87-5	1,2-Dichloropropane	6.14		0.50	0.10
78-93-3	2-Butanone (MEK)	83.7		5.0	1.0
591-78-6	2-Hexanone	78.0		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	75.7		5.0	1.0
67-64-1	Acetone	62.3		5.0	1.0
71-43-2	Benzene	5.84		0.50	0.10
74-97-5	Bromochloromethane	5.78		0.50	0.080
75-27-4	Bromodichloromethane	5.34		0.50	0.080
75-25-2	Bromoform	4.63		1.0	0.30
74-83-9	Bromomethane	5.16		0.50	0.10
75-15-0	Carbon disulfide	5.27		1.0	0.10
56-23-5	Carbon tetrachloride	5.30		0.50	0.10
108-90-7	Chlorobenzene	5.24		0.50	0.070
75-00-3	Chloroethane	5.72		0.50	0.10
67-66-3	Chloroform	5.43		0.50	0.090
74-87-3	Chloromethane	4.78		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.40		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.37		0.50	0.10
124-48-1	Dibromochloromethane	4.97		0.50	0.080
100-41-4	Ethylbenzene	5.09		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.16		0.50	0.080
75-09-2	Methylene Chloride	5.58		0.50	0.20
100-42-5	Styrene	5.03		0.50	0.070
127-18-4	Tetrachloroethene	4.88		0.50	0.20
108-88-3	Toluene	5.07		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-478015/4

Matrix: Water

Lab File ID: HF28X03.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 02/28/2024 18:46

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.: 478015

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.32		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.00		0.50	0.080
79-01-6	Trichloroethene	5.42		0.50	0.080
75-01-4	Vinyl chloride	4.89		0.50	0.10
1330-20-7	Xylenes, Total	15.3		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X03.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 28-Feb-2024 18:46:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107468-004
 Misc. Info.: LCS
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Feb-2024 20:34:03 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1673

First Level Reviewer: JS6E

Date: 28-Feb-2024 19:23:03

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	1.867	0.000	99	205881	5.00	3.77	
5 Chloromethane	50	2.056	2.056	0.000	99	286511	5.00	4.78	
6 Vinyl chloride	62	2.172	2.172	0.000	97	280906	5.00	4.89	
7 Butadiene	39	2.178	2.178	0.000	94	223296	5.00	3.58	
9 Bromomethane	94	2.489	2.489	0.000	91	210930	5.00	5.16	
10 Chloroethane	64	2.562	2.562	0.000	100	189534	5.00	5.72	
11 Dichlorofluoromethane	67	2.794	2.788	0.006	97	439803	5.00	4.80	
12 Trichlorofluoromethane	101	2.861	2.867	-0.006	97	326877	5.00	4.76	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.166	3.172	-0.006	93	278450	5.00	5.64	
17 1,1-Dichloroethene	96	3.385	3.385	0.000	98	194626	5.00	5.04	
19 Acetone	43	3.416	3.410	0.006	99	305288	62.5	62.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.428	3.422	0.006	92	163575	5.00	4.61	
21 Iodomethane	142	3.568	3.568	0.000	99	366812	5.00	4.81	
22 Ethyl bromide	108	3.599	3.599	0.000	99	177658	4.89	5.15	
23 Carbon disulfide	76	3.678	3.672	0.006	99	565522	5.00	5.27	
24 Methyl acetate	43	3.818	3.830	-0.012	98	68255	5.00	4.77	M
26 3-Chloro-1-propene	41	3.842	3.837	0.006	93	324163	5.00	5.02	
27 Methylene Chloride	84	4.019	4.013	0.006	93	228455	5.00	5.58	
* 28 t-Butyl alcohol-d10 (IS)	65	3.995	4.038	-0.043	98	81030	50.0	50.0	
29 2-Methyl-2-propanol	59	4.129	4.178	-0.049	98	65816	50.0	45.3	
31 Acrylonitrile	53	4.348	4.343	0.006	100	206829	25.0	32.3	
32 Methyl tert-butyl ether	73	4.403	4.410	-0.007	96	502033	5.00	5.16	
33 trans-1,2-Dichloroethene	96	4.422	4.422	0.000	99	233387	5.00	5.32	
34 Hexane	57	4.854	4.849	0.006	92	248102	5.00	5.22	
36 1,1-Dichloroethane	63	5.080	5.080	0.000	96	452312	5.00	5.80	
37 Isopropyl ether	45	5.147	5.141	0.006	95	713052	5.00	5.55	
38 2-Chloro-1,3-butadiene	53	5.184	5.190	-0.006	90	348435	5.00	4.94	
40 Tert-butyl ethyl ether	59	5.678	5.678	0.000	98	659866	5.00	5.22	
41 2-Butanone (MEK)	43	5.879	5.873	0.006	100	671166	62.5	83.7	
42 cis-1,2-Dichloroethene	96	5.909	5.909	0.000	82	265439	5.00	5.40	
43 2,2-Dichloropropane	77	5.921	5.921	0.000	86	375579	5.00	5.19	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Propionitrile	54	5.964	5.958	0.006	98	105475	37.5	47.2	
47 Methacrylonitrile	67	6.177	6.171	0.006	92	425506	37.5	47.7	
48 Chlorobromomethane	128	6.251	6.238	0.013	95	113487	5.00	5.78	
49 Tetrahydrofuran	71	6.269	6.257	0.012	79	75421	25.0	29.3	
50 Chloroform	83	6.397	6.391	0.006	93	436765	5.00	5.43	
\$ 52 Dibromofluoromethane (Surr)	113	6.610	6.604	0.006	94	447863	10.0	9.58	
53 1,1,1-Trichloroethane	97	6.622	6.623	-0.001	97	373324	5.00	4.95	
54 Cyclohexane	56	6.726	6.726	0.000	91	334276	5.00	4.89	
56 Carbon tetrachloride	117	6.836	6.836	0.000	88	334315	5.00	5.30	
55 1,1-Dichloropropene	75	6.842	6.836	0.006	96	339572	5.00	5.60	
57 Isobutyl alcohol	41	6.988	6.988	0.000	96	75438	125.0	164.2	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.061	7.061	0.000	95	90667	10.0	10.3	
59 Benzene	78	7.098	7.098	0.000	97	1028856	5.00	5.84	
60 1,2-Dichloroethane	62	7.165	7.165	0.000	97	256236	5.00	5.00	
63 Tert-amyl methyl ether	73	7.299	7.293	0.006	99	572895	5.00	5.34	
* 64 Fluorobenzene (IS)	96	7.506	7.500	0.006	98	1845551	10.0	10.0	
65 n-Heptane	43	7.525	7.519	0.006	92	267385	5.00	5.70	
67 n-Butanol	56	7.890	7.878	0.012	88	128291	250.0	350.8	
68 Trichloroethene	95	7.988	7.982	0.006	98	269294	5.00	5.42	
69 Methylcyclohexane	83	8.293	8.293	0.000	93	342411	5.00	5.09	
70 1,2-Dichloropropane	63	8.317	8.311	0.006	98	265942	5.00	6.14	
71 2-ethoxy-2-methyl butane	87	8.336	8.330	0.006	93	358681	5.00	5.18	
72 Methyl methacrylate	69	8.409	8.409	0.000	89	105252	5.00	5.75	
73 1,4-Dioxane	88	8.409	8.409	0.000	31	16944	125.0	287.7	
74 Dibromomethane	93	8.427	8.427	0.000	95	117487	5.00	5.60	
76 Dichlorobromomethane	83	8.659	8.659	0.000	99	308299	5.00	5.34	
77 2-Nitropropane	41	8.927	8.921	0.006	98	29304	5.00	4.72	
79 1-Bromo-2-chloroethane	63	9.055	9.055	0.000	98	251750	5.00	5.92	
80 cis-1,3-Dichloropropene	75	9.219	9.214	0.005	96	361012	5.00	5.37	
82 4-Methyl-2-pentanone (MIBK)	43	9.396	9.396	0.000	96	1710548	62.5	75.7	
\$ 83 Toluene-d8 (Surr)	98	9.537	9.531	0.005	93	1943464	10.0	9.41	
84 Toluene	92	9.610	9.610	0.000	98	654896	5.00	5.07	
85 trans-1,3-Dichloropropene	75	9.878	9.872	0.006	93	310261	5.00	5.00	
104 Ethyl methacrylate	69	9.945	9.945	0.000	89	220222	5.00	4.78	
106 1,1,2-Trichloroethane	97	10.085	10.079	0.006	90	170202	5.00	5.24	
107 Tetrachloroethene	166	10.177	10.171	0.006	98	301189	5.00	4.88	
108 1,3-Dichloropropane	76	10.250	10.244	0.006	89	299379	5.00	5.38	
109 2-Hexanone	43	10.305	10.299	0.006	97	1173206	62.5	78.0	
111 Chlorodibromomethane	129	10.463	10.463	0.000	90	215275	5.00	4.97	
112 Ethylene Dibromide	107	10.579	10.573	0.006	100	157291	5.00	5.02	
* 113 Chlorobenzene-d5 (IS)	117	11.012	11.012	0.000	85	1562691	10.0	10.0	
114 1-Chlorohexane	91	11.024	11.024	0.000	97	342060	5.00	4.64	
115 Chlorobenzene	112	11.036	11.036	0.000	95	736891	5.00	5.24	
116 1,1,1,2-Tetrachloroethane	131	11.122	11.122	0.000	96	253814	5.00	4.95	
117 Ethylbenzene	91	11.128	11.122	0.006	98	1279199	5.00	5.09	
119 m-Xylene & p-Xylene	106	11.243	11.244	-0.001	99	1002397	10.0	10.3	
120 o-Xylene	106	11.573	11.573	0.000	96	474890	5.00	4.99	
121 Styrene	104	11.585	11.585	0.000	95	774348	5.00	5.03	
122 Bromoform	173	11.743	11.744	-0.001	97	126333	5.00	4.63	
123 Isopropylbenzene	105	11.871	11.872	-0.001	96	1254772	5.00	5.37	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.018	12.018	0.000	92	770380	10.0	9.96	
127 1,1,2,2-Tetrachloroethane	83	12.115	12.115	0.000	93	200480	5.00	4.86	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
128 Bromobenzene	156	12.134	12.134	0.000	96	295024	5.00	4.80	
129 trans-1,4-Dichloro-2-butene	53	12.140	12.140	0.000	90	263327	25.0	28.5	
130 1,2,3-Trichloropropane	110	12.164	12.164	0.000	81	54153	5.00	4.92	
131 N-Propylbenzene	91	12.201	12.201	0.000	99	1480349	5.00	5.08	
132 2-Chlorotoluene	126	12.274	12.274	0.000	97	297185	5.00	4.87	
133 1,3,5-Trimethylbenzene	105	12.341	12.335	0.006	94	1029581	5.00	4.88	
134 4-Chlorotoluene	126	12.371	12.371	0.000	97	305562	5.00	4.91	
135 tert-Butylbenzene	134	12.579	12.579	0.000	92	218926	5.00	4.55	
137 1,2,4-Trimethylbenzene	105	12.621	12.621	0.000	97	1039051	5.00	4.87	
138 sec-Butylbenzene	105	12.743	12.743	0.000	94	1277783	5.00	4.97	
139 1,3-Dichlorobenzene	146	12.841	12.841	0.000	98	585813	5.00	4.98	
140 4-Isopropyltoluene	119	12.853	12.847	0.006	97	1112434	5.00	4.92	
* 141 1,4-Dichlorobenzene-d4	152	12.896	12.896	0.000	94	900559	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.914	12.914	0.000	95	602434	5.00	5.07	
143 1,2,3-Trimethylbenzene	120	12.926	12.920	0.006	98	455474	5.00	4.79	
144 Benzyl chloride	126	12.993	12.987	0.006	99	83713	5.00	4.87	
145 p-Diethylbenzene	119	13.121	13.121	0.000	95	662683	5.00	5.04	
146 n-Butylbenzene	92	13.139	13.140	-0.001	97	514589	5.00	5.01	
147 1,2-Dichlorobenzene	146	13.170	13.170	0.000	99	528942	5.00	5.00	
149 1,2-Dibromo-3-Chloropropane	155	13.719	13.713	0.006	88	25449	5.00	4.67	
150 1,3,5-Trichlorobenzene	180	13.841	13.841	0.000	97	392428	5.00	4.94	
151 1,2,4-Trichlorobenzene	180	14.261	14.261	0.000	94	315804	5.00	5.14	
152 Hexachlorobutadiene	225	14.340	14.341	-0.001	95	115514	5.00	4.85	
153 Naphthalene	128	14.438	14.438	0.000	97	511832	5.00	5.25	
154 1,2,3-Trichlorobenzene	180	14.578	14.578	0.000	95	246606	5.00	5.65	
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_00155

Amount Added: 12.50

Units: uL

MSV_QC_Gas826_00185

Amount Added: 12.50

Units: uL

LCS_ETBR_00007

Amount Added: 12.50

Units: uL

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Feb-2024 20:34:08

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X03.D

Injection Date: 28-Feb-2024 18:46:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

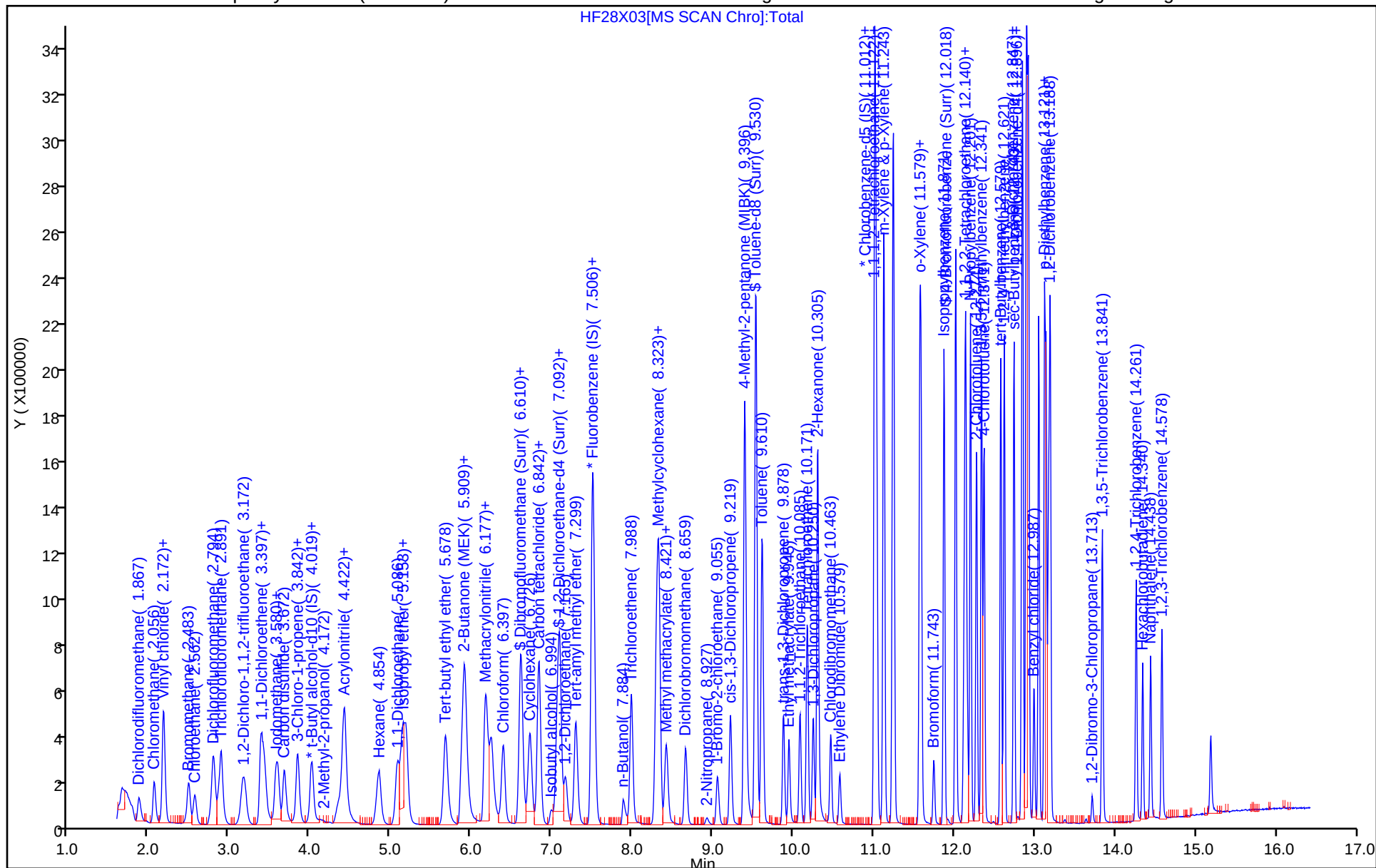
ALS Bottle#: 3

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\20240228-107468.b\HF28X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 28-Feb-2024 18:46:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107468-004
Misc. Info.: LCS
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Feb-2024 20:34:03 Calib Date: 17-Oct-2023 09:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1673

First Level Reviewer: JS6E

Date: 28-Feb-2024 19:23:03

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.58	95.78
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.85
\$ 83 Toluene-d8 (Surr)	10.0	9.41	94.10
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.96	99.61

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-478337/5

Matrix: Water

Lab File ID: CF29X04.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 13:35

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.: 478337

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.48		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.17		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.45		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.38		0.50	0.080
75-34-3	1,1-Dichloroethane	5.16		0.50	0.10
75-35-4	1,1-Dichloroethene	5.37		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.32		0.50	0.080
107-06-2	1,2-Dichloroethane	4.95		0.50	0.070
78-87-5	1,2-Dichloropropane	5.43		0.50	0.10
78-93-3	2-Butanone (MEK)	50.0		5.0	1.0
591-78-6	2-Hexanone	63.0		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	65.7		5.0	1.0
67-64-1	Acetone	50.3		5.0	1.0
71-43-2	Benzene	5.25		0.50	0.10
74-97-5	Bromochloromethane	5.48		0.50	0.080
75-27-4	Bromodichloromethane	5.52		0.50	0.080
75-25-2	Bromoform	5.51		1.0	0.30
74-83-9	Bromomethane	4.88		0.50	0.10
75-15-0	Carbon disulfide	4.93		1.0	0.10
56-23-5	Carbon tetrachloride	5.35		0.50	0.10
108-90-7	Chlorobenzene	5.37		0.50	0.070
75-00-3	Chloroethane	5.03		0.50	0.10
67-66-3	Chloroform	5.06		0.50	0.090
74-87-3	Chloromethane	4.80		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.33		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.05		0.50	0.10
124-48-1	Dibromochloromethane	5.61		0.50	0.080
100-41-4	Ethylbenzene	5.21		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.61		0.50	0.080
75-09-2	Methylene Chloride	5.13		0.50	0.20
100-42-5	Styrene	5.35		0.50	0.070
127-18-4	Tetrachloroethene	5.29		0.50	0.20
108-88-3	Toluene	5.19		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-478337/5

Matrix: Water

Lab File ID: CF29X04.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 13:35

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.: 478337

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.20		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.16		0.50	0.080
79-01-6	Trichloroethene	5.30		0.50	0.080
75-01-4	Vinyl chloride	4.83		0.50	0.10
1330-20-7	Xylenes, Total	15.8		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X04.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 29-Feb-2024 13:35:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107545-005
 Operator ID: knk41612 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 29-Feb-2024 14:52:14 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1632

First Level Reviewer: DVW2

Date: 29-Feb-2024 14:12:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.823	1.823	0.000	99	366857	5.00	5.12	
5 Chloromethane	50	2.000	2.006	-0.006	99	431098	5.00	4.80	
6 Vinyl chloride	62	2.104	2.110	-0.006	98	394877	5.00	4.83	
7 Butadiene	39	2.110	2.116	-0.006	92	406965	5.00	4.94	
9 Bromomethane	94	2.408	2.408	0.000	89	275207	5.00	4.88	
10 Chloroethane	64	2.469	2.476	-0.007	100	228311	5.00	5.03	
11 Dichlorofluoromethane	67	2.701	2.701	0.000	97	545517	5.00	4.42	
12 Trichlorofluoromethane	101	2.756	2.762	-0.006	97	469628	5.00	5.28	
13 Pentane	43	2.768	2.774	-0.006	97	455858	5.00	4.84	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.055	3.061	-0.006	94	344031	5.00	4.89	
18 1,1-Dichloroethene	96	3.238	3.238	0.000	98	269895	5.00	5.37	
20 Acetone	43	3.268	3.268	0.000	100	454966	62.5	50.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.280	3.286	-0.006	90	251470	5.00	4.76	
22 Iodomethane	142	3.408	3.414	-0.006	97	519085	5.00	4.93	
24 Isopropyl alcohol	45	3.420	3.420	0.000	32	59058	37.5	29.3	
23 Ethyl bromide	108	3.439	3.445	-0.006	98	234779	4.89	4.98	
25 Carbon disulfide	76	3.500	3.506	-0.006	99	863071	5.00	4.93	
26 Methyl acetate	43	3.640	3.652	-0.012	97	149313	5.00	4.88	M
29 3-Chloro-1-propene	41	3.658	3.670	-0.012	94	444750	5.00	4.72	
30 Methylene Chloride	84	3.835	3.841	-0.006	91	302834	5.00	5.13	
* 31 t-Butyl alcohol-d10 (IS)	65	3.835	3.847	-0.012	39	172674	50.0	50.0	
32 2-Methyl-2-propanol	59	3.957	3.963	-0.006	99	152588	50.0	39.0	
33 Acrylonitrile	53	4.152	4.152	0.000	99	294145	25.0	20.7	
34 Methyl tert-butyl ether	73	4.195	4.201	-0.006	95	755238	5.00	4.61	
35 trans-1,2-Dichloroethene	96	4.207	4.213	-0.006	99	311389	5.00	5.20	
36 Hexane	57	4.628	4.634	-0.006	92	418054	5.00	5.16	
37 1,1-Dichloroethane	63	4.871	4.871	0.000	96	566493	5.00	5.16	
39 Isopropyl ether	45	4.932	4.932	0.000	94	999558	5.00	4.88	
40 2-Chloro-1,3-butadiene	53	4.981	4.981	0.000	89	442275	5.00	4.89	
41 Tert-butyl ethyl ether	59	5.469	5.475	-0.006	97	935724	5.00	4.80	
42 2-Butanone (MEK)	43	5.682	5.688	-0.006	99	961981	62.5	50.0	
43 cis-1,2-Dichloroethene	96	5.707	5.719	-0.012	81	359538	5.00	5.33	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2,2-Dichloropropane	77	5.731	5.731	0.000	86	443445	5.00	4.87	
45 Propionitrile	54	5.786	5.780	0.006	99	138173	37.5	28.5	
47 Methacrylonitrile	67	5.999	6.011	-0.012	92	622822	37.5	33.9	
48 Chlorobromomethane	128	6.048	6.048	0.000	93	165838	5.00	5.48	
49 Tetrahydrofuran	71	6.054	6.060	-0.006	80	111507	25.0	20.1	
50 Chloroform	83	6.206	6.213	-0.007	93	564572	5.00	5.06	
\$ 54 Dibromofluoromethane (Surr)	113	6.426	6.432	-0.006	94	530940	10.0	10.6	
53 1,1,1-Trichloroethane	97	6.432	6.432	0.000	98	479633	5.00	5.17	
55 Cyclohexane	56	6.523	6.530	-0.007	90	508617	5.00	4.98	
56 Carbon tetrachloride	117	6.639	6.639	0.000	97	436565	5.00	5.35	
57 1,1-Dichloropropene	75	6.645	6.652	-0.007	98	436456	5.00	5.25	
58 Isobutyl alcohol	41	6.834	6.834	0.000	95	152944	125.0	108.7	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.889	6.889	0.000	99	109148	10.0	10.7	
60 Benzene	78	6.914	6.920	-0.006	97	1342858	5.00	5.25	
61 1,2-Dichloroethane	62	6.993	6.999	-0.006	97	340515	5.00	4.95	
64 Tert-amyl methyl ether	73	7.115	7.121	-0.006	99	863133	5.00	4.87	
* 65 Fluorobenzene (IS)	96	7.334	7.334	0.000	98	2252738	10.0	10.0	
66 n-Heptane	43	7.346	7.353	-0.007	92	470552	5.00	5.44	
67 n-Butanol	56	7.737	7.737	0.000	88	287087	250.0	240.9	
68 Trichloroethene	95	7.816	7.822	-0.006	96	350242	5.00	5.30	
69 Methylcyclohexane	83	8.121	8.127	-0.006	89	557973	5.00	5.20	
70 1,2-Dichloropropane	63	8.157	8.157	0.000	97	360783	5.00	5.43	
71 2-ethoxy-2-methyl butane	87	8.176	8.182	-0.006	93	504067	5.00	4.75	
74 1,4-Dioxane	88	8.249	8.255	-0.006	33	30579	125.0	126.4	
73 Methyl methacrylate	69	8.261	8.261	0.000	93	154195	5.00	4.15	
72 Dibromomethane	93	8.267	8.267	0.000	93	167680	5.00	5.18	
76 Dichlorobromomethane	83	8.517	8.517	0.000	99	425915	5.00	5.52	
77 2-Nitropropane	41	8.797	8.804	-0.007	99	38366	5.00	3.67	
80 cis-1,3-Dichloropropene	75	9.084	9.090	-0.006	97	509777	5.00	5.05	
82 4-Methyl-2-pentanone (MIBK)	43	9.285	9.291	-0.006	96	3157227	62.5	65.7	
\$ 83 Toluene-d8 (Surr)	98	9.413	9.419	-0.006	93	2382174	10.0	10.4	
84 Toluene	92	9.492	9.499	-0.007	98	899581	5.00	5.19	
85 trans-1,3-Dichloropropene	75	9.779	9.779	0.000	92	459816	5.00	5.16	
86 Ethyl methacrylate	69	9.852	9.852	0.000	90	377151	5.00	5.08	
87 1,1,2-Trichloroethane	97	9.992	9.992	0.000	89	265239	5.00	5.38	
88 Tetrachloroethene	166	10.072	10.072	0.000	97	423476	5.00	5.29	
89 1,3-Dichloropropane	76	10.157	10.163	-0.006	90	443539	5.00	5.24	
106 2-Hexanone	43	10.224	10.230	-0.006	96	2226123	62.5	63.0	
108 Chlorodibromomethane	129	10.376	10.383	-0.007	89	337356	5.00	5.61	
110 Ethylene Dibromide	107	10.486	10.492	-0.006	98	254639	5.00	5.32	
* 111 Chlorobenzene-d5 (IS)	117	10.943	10.943	0.000	84	1804331	10.0	10.0	
112 1-Chlorohexane	91	10.962	10.962	0.000	98	473164	5.00	4.90	
113 Chlorobenzene	112	10.968	10.974	-0.006	97	1089099	5.00	5.37	
114 1,1,1,2-Tetrachloroethane	131	11.059	11.059	0.000	97	384059	5.00	5.48	
115 Ethylbenzene	91	11.065	11.065	0.000	98	1764969	5.00	5.21	
116 m-Xylene & p-Xylene	106	11.187	11.187	0.000	97	1443192	10.0	10.6	
118 o-Xylene	106	11.523	11.523	-0.001	96	705661	5.00	5.20	
119 Styrene	104	11.541	11.541	0.000	95	1190430	5.00	5.35	
120 Bromoform	173	11.693	11.693	0.000	98	207335	5.00	5.51	
121 Isopropylbenzene	105	11.833	11.833	0.000	95	1819436	5.00	5.63	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	96	855669	10.0	9.34	
126 1,1,2,2-Tetrachloroethane	83	12.089	12.090	-0.001	92	341149	5.00	5.45	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
125 Bromobenzene	156	12.096	12.096	0.000	89	485834	5.00	5.25	
127 trans-1,4-Dichloro-2-butene	53	12.120	12.120	0.000	90	355275	25.0	21.0	
128 1,2,3-Trichloropropane	110	12.138	12.138	0.000	82	92653	5.00	5.44	
129 N-Propylbenzene	91	12.175	12.175	0.000	98	2123038	5.00	5.19	
130 2-Chlorotoluene	126	12.248	12.248	0.000	98	457841	5.00	5.15	
131 1,3,5-Trimethylbenzene	105	12.315	12.315	0.000	94	1563894	5.00	5.13	
132 4-Chlorotoluene	126	12.339	12.339	0.000	96	483723	5.00	5.19	
133 tert-Butylbenzene	134	12.559	12.559	0.000	94	333592	5.00	4.74	
135 1,2,4-Trimethylbenzene	105	12.602	12.602	0.000	97	1602468	5.00	5.11	
136 sec-Butylbenzene	105	12.730	12.730	0.000	93	1995184	5.00	5.20	
137 1,3-Dichlorobenzene	146	12.821	12.821	0.000	98	968019	5.00	5.26	
138 4-Isopropyltoluene	119	12.839	12.839	0.000	97	1773581	5.00	5.12	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.882	0.000	93	1080028	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.900	12.900	0.000	96	980213	5.00	5.25	
141 1,2,3-Trimethylbenzene	120	12.912	12.913	-0.001	98	719045	5.00	4.99	
142 Benzyl chloride	126	12.980	12.980	0.000	98	145568	5.00	5.81	
145 p-Diethylbenzene	119	13.114	13.114	0.000	95	1125075	5.00	5.25	
143 n-Butylbenzene	92	13.138	13.138	0.000	97	863891	5.00	5.15	
144 1,2-Dichlorobenzene	146	13.162	13.162	0.000	99	891686	5.00	5.30	
148 1,2-Dibromo-3-Chloropropane	155	13.717	13.717	0.000	91	51189	5.00	5.80	
149 1,3,5-Trichlorobenzene	180	13.839	13.839	0.000	97	734121	5.00	5.38	
150 1,2,4-Trichlorobenzene	180	14.272	14.272	0.000	94	585450	5.00	5.56	
151 Hexachlorobutadiene	225	14.357	14.357	0.000	95	309425	5.00	5.48	
152 Naphthalene	128	14.455	14.455	0.000	96	909542	5.00	5.83	
153 1,2,3-Trichlorobenzene	180	14.601	14.601	0.000	95	426956	5.00	5.55	
154 2-Methylnaphthalene	142	15.217	15.217	0.000	92	206097	5.00	4.92	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00155

Amount Added: 12.50

Units: uL

LCS_ETBR_00007

Amount Added: 12.50

Units: uL

MSV_QC_GAS524_00154

Amount Added: 12.50

Units: uL

MSV_HP25_ISSS_00084

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 29-Feb-2024 14:53:21

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X04.D

Injection Date: 29-Feb-2024 13:35:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

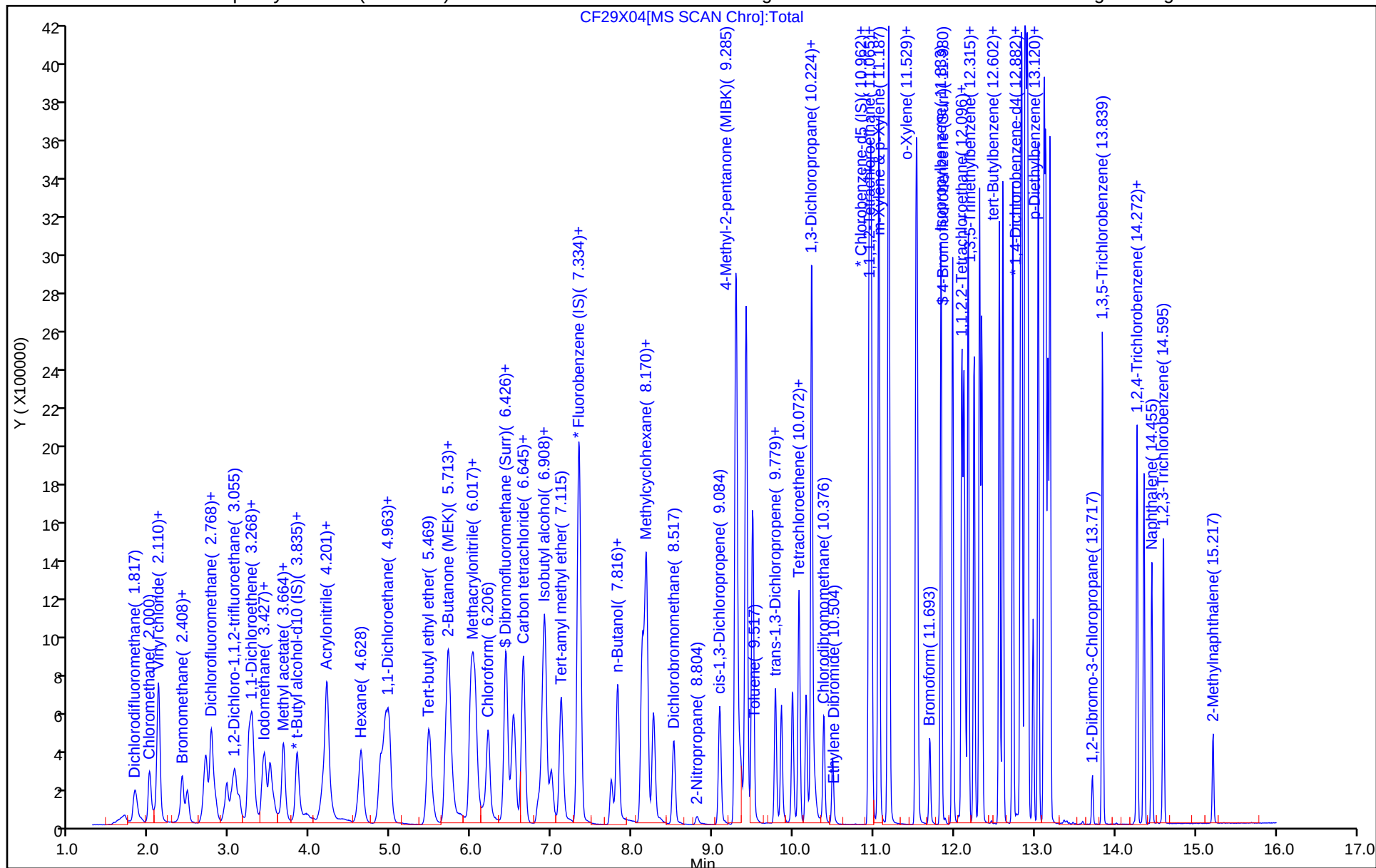
ALS Bottle#: 4

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X04.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 29-Feb-2024 13:35:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107545-005
Operator ID: knk41612 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Feb-2024 14:52:14 Calib Date: 11-Dec-2023 23:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: DVW2

Date: 29-Feb-2024 14:12:33

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.6	105.67
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	107.34
\$ 83 Toluene-d8 (Surr)	10.0	10.4	104.44
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.34	93.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCSD 410-478015/5

Matrix: Water

Lab File ID: HF28X04.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 02/28/2024 19:06

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 478015

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.90		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.84		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.87		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.17		0.50	0.080
75-34-3	1,1-Dichloroethane	5.57		0.50	0.10
75-35-4	1,1-Dichloroethene	4.76		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.92		0.50	0.080
107-06-2	1,2-Dichloroethane	4.84		0.50	0.070
78-87-5	1,2-Dichloropropane	5.99		0.50	0.10
78-93-3	2-Butanone (MEK)	83.5		5.0	1.0
591-78-6	2-Hexanone	78.9		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	75.9		5.0	1.0
67-64-1	Acetone	66.5		5.0	1.0
71-43-2	Benzene	5.55		0.50	0.10
74-97-5	Bromochloromethane	5.65		0.50	0.080
75-27-4	Bromodichloromethane	5.15		0.50	0.080
75-25-2	Bromoform	4.52		1.0	0.30
74-83-9	Bromomethane	5.01		0.50	0.10
75-15-0	Carbon disulfide	5.00		1.0	0.10
56-23-5	Carbon tetrachloride	5.07		0.50	0.10
108-90-7	Chlorobenzene	5.17		0.50	0.070
75-00-3	Chloroethane	5.52		0.50	0.10
67-66-3	Chloroform	5.24		0.50	0.090
74-87-3	Chloromethane	4.45		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.27		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.25		0.50	0.10
124-48-1	Dibromochloromethane	4.93		0.50	0.080
100-41-4	Ethylbenzene	5.06		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.93		0.50	0.080
75-09-2	Methylene Chloride	5.31		0.50	0.20
100-42-5	Styrene	5.00		0.50	0.070
127-18-4	Tetrachloroethene	4.84		0.50	0.20
108-88-3	Toluene	5.07		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCSD 410-478015/5

Matrix: Water

Lab File ID: HF28X04.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 02/28/2024 19:06

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 478015

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.03		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.01		0.50	0.080
79-01-6	Trichloroethene	5.15		0.50	0.080
75-01-4	Vinyl chloride	4.65		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)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X04.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 28-Feb-2024 19:06:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107468-005
 Misc. Info.: LCSD
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Feb-2024 20:34:03 Calib Date: 17-Oct-2023 09:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1673

First Level Reviewer: JS6E

Date: 28-Feb-2024 20:13:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.880	1.867	0.013	99	202529	5.00	3.64	
5 Chloromethane	50	2.069	2.056	0.013	99	271850	5.00	4.45	
6 Vinyl chloride	62	2.178	2.172	0.006	97	272728	5.00	4.65	
7 Butadiene	39	2.184	2.178	0.006	92	216494	5.00	3.40	
9 Bromomethane	94	2.495	2.489	0.006	90	209240	5.00	5.01	
10 Chloroethane	64	2.575	2.562	0.013	100	186723	5.00	5.52	
11 Dichlorofluoromethane	67	2.800	2.788	0.012	97	432827	5.00	4.62	
12 Trichlorofluoromethane	101	2.873	2.867	0.006	98	325000	5.00	4.63	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.172	3.172	0.000	93	268347	5.00	5.33	
17 1,1-Dichloroethene	96	3.391	3.385	0.006	98	187400	5.00	4.76	
19 Acetone	43	3.428	3.410	0.018	99	320919	62.5	66.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.434	3.422	0.012	91	161747	5.00	4.47	
21 Iodomethane	142	3.580	3.568	0.012	98	354274	5.00	4.55	
22 Ethyl bromide	108	3.605	3.599	0.006	98	173051	4.89	4.91	
23 Carbon disulfide	76	3.684	3.672	0.012	99	547880	5.00	5.00	
24 Methyl acetate	43	3.830	3.830	0.000	25	61752	5.00	4.39	M
26 3-Chloro-1-propene	41	3.843	3.837	0.007	94	326220	5.00	4.95	
27 Methylene Chloride	84	4.025	4.013	0.012	92	222043	5.00	5.31	
* 28 t-Butyl alcohol-d10 (IS)	65	4.019	4.038	-0.019	98	79735	50.0	50.0	
29 2-Methyl-2-propanol	59	4.160	4.178	-0.018	99	72100	50.0	50.5	
31 Acrylonitrile	53	4.349	4.343	0.007	100	202520	25.0	32.2	
32 Methyl tert-butyl ether	73	4.410	4.410	0.000	96	489049	5.00	4.93	
33 trans-1,2-Dichloroethene	96	4.428	4.422	0.006	99	225264	5.00	5.03	
34 Hexane	57	4.855	4.849	0.007	91	248223	5.00	5.11	
36 1,1-Dichloroethane	63	5.080	5.080	0.000	96	443559	5.00	5.57	
37 Isopropyl ether	45	5.153	5.141	0.012	95	705564	5.00	5.38	
38 2-Chloro-1,3-butadiene	53	5.196	5.190	0.006	90	339915	5.00	4.72	
40 Tert-butyl ethyl ether	59	5.684	5.678	0.006	98	658943	5.00	5.10	
41 2-Butanone (MEK)	43	5.879	5.873	0.006	100	658794	62.5	83.5	
42 cis-1,2-Dichloroethene	96	5.915	5.909	0.006	82	264648	5.00	5.27	
43 2,2-Dichloropropane	77	5.928	5.921	0.007	86	370525	5.00	5.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Propionitrile	54	5.982	5.958	0.024	99	107807	37.5	49.1	
47 Methacrylonitrile	67	6.184	6.171	0.013	91	423245	37.5	48.3	
48 Chlorobromomethane	128	6.245	6.238	0.007	94	113262	5.00	5.65	
49 Tetrahydrofuran	71	6.263	6.257	0.006	79	72492	25.0	28.6	
50 Chloroform	83	6.403	6.391	0.012	93	429934	5.00	5.24	
\$ 52 Dibromofluoromethane (Surr)	113	6.610	6.604	0.006	94	455182	10.0	9.54	
53 1,1,1-Trichloroethane	97	6.629	6.623	0.006	98	372081	5.00	4.84	
54 Cyclohexane	56	6.726	6.726	0.000	89	327774	5.00	4.69	
56 Carbon tetrachloride	117	6.842	6.836	0.006	86	326616	5.00	5.07	
55 1,1-Dichloropropene	75	6.842	6.836	0.006	96	331301	5.00	5.35	
57 Isobutyl alcohol	41	7.001	6.988	0.012	93	69471	125.0	153.7	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.068	7.061	0.007	97	90947	10.0	10.1	
59 Benzene	78	7.104	7.098	0.006	97	998313	5.00	5.55	
60 1,2-Dichloroethane	62	7.171	7.165	0.006	97	253465	5.00	4.84	
63 Tert-amyl methyl ether	73	7.299	7.293	0.006	99	569392	5.00	5.20	
* 64 Fluorobenzene (IS)	96	7.507	7.500	0.006	98	1883713	10.0	10.0	
65 n-Heptane	43	7.525	7.519	0.006	91	255895	5.00	5.34	
67 n-Butanol	56	7.891	7.878	0.013	88	117387	250.0	326.2	
68 Trichloroethene	95	7.994	7.982	0.012	98	261252	5.00	5.15	
69 Methylcyclohexane	83	8.299	8.293	0.006	92	338360	5.00	4.93	
70 1,2-Dichloropropane	63	8.317	8.311	0.006	96	264734	5.00	5.99	
71 2-ethoxy-2-methyl butane	87	8.336	8.330	0.006	94	358679	5.00	5.08	
72 Methyl methacrylate	69	8.409	8.409	0.000	90	101840	5.00	5.65	
73 1,4-Dioxane	88	8.421	8.409	0.012	30	11892	125.0	211.3	
74 Dibromomethane	93	8.427	8.427	0.000	95	118425	5.00	5.53	
76 Dichlorobromomethane	83	8.665	8.659	0.006	99	303284	5.00	5.15	
77 2-Nitropropane	41	8.933	8.921	0.012	97	30168	5.00	4.94	
79 1-Bromo-2-chloroethane	63	9.061	9.055	0.006	99	252383	5.00	5.81	
80 cis-1,3-Dichloropropene	75	9.220	9.214	0.006	97	359917	5.00	5.25	
82 4-Methyl-2-pentanone (MIBK)	43	9.396	9.396	0.000	96	1687512	62.5	75.9	
\$ 83 Toluene-d8 (Surr)	98	9.537	9.531	0.006	93	1976197	10.0	9.58	
84 Toluene	92	9.616	9.610	0.006	99	654440	5.00	5.07	
85 trans-1,3-Dichloropropene	75	9.878	9.872	0.006	92	310715	5.00	5.01	
104 Ethyl methacrylate	69	9.945	9.945	0.000	88	217856	5.00	4.74	
106 1,1,2-Trichloroethane	97	10.085	10.079	0.006	90	167773	5.00	5.17	
107 Tetrachloroethene	166	10.177	10.171	0.006	98	298059	5.00	4.84	
108 1,3-Dichloropropane	76	10.250	10.244	0.006	89	295867	5.00	5.32	
109 2-Hexanone	43	10.305	10.299	0.006	96	1167308	62.5	78.9	
111 Chlorodibromomethane	129	10.463	10.463	0.000	90	213475	5.00	4.93	
112 Ethylene Dibromide	107	10.579	10.573	0.006	100	154120	5.00	4.92	
* 113 Chlorobenzene-d5 (IS)	117	11.012	11.012	0.000	85	1561481	10.0	10.0	
114 1-Chlorohexane	91	11.024	11.024	0.000	96	341499	5.00	4.64	
115 Chlorobenzene	112	11.036	11.036	0.000	95	725963	5.00	5.17	
116 1,1,1,2-Tetrachloroethane	131	11.122	11.122	0.000	96	250934	5.00	4.90	
117 Ethylbenzene	91	11.128	11.122	0.006	98	1270576	5.00	5.06	
119 m-Xylene & p-Xylene	106	11.244	11.244	0.000	99	989503	10.0	10.2	
120 o-Xylene	106	11.573	11.573	0.000	96	465136	5.00	4.89	
121 Styrene	104	11.591	11.585	0.006	95	769599	5.00	5.00	
122 Bromoform	173	11.743	11.744	-0.001	97	123445	5.00	4.52	
123 Isopropylbenzene	105	11.872	11.872	0.000	96	1233926	5.00	5.28	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.018	12.018	0.000	92	782312	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.115	12.115	0.000	92	200088	5.00	4.87	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
128 Bromobenzene	156	12.134	12.134	0.000	97	289772	5.00	4.74	
129 trans-1,4-Dichloro-2-butene	53	12.140	12.140	0.000	91	260185	25.0	28.7	
130 1,2,3-Trichloropropane	110	12.164	12.164	0.000	82	53659	5.00	4.89	
131 N-Propylbenzene	91	12.201	12.201	0.000	99	1465014	5.00	5.05	
132 2-Chlorotoluene	126	12.280	12.274	0.006	97	293467	5.00	4.83	
133 1,3,5-Trimethylbenzene	105	12.341	12.335	0.006	94	1017821	5.00	4.84	
134 4-Chlorotoluene	126	12.371	12.371	0.000	97	301141	5.00	4.85	
135 tert-Butylbenzene	134	12.579	12.579	0.000	93	214731	5.00	4.48	
137 1,2,4-Trimethylbenzene	105	12.621	12.621	0.000	97	1037494	5.00	4.88	
138 sec-Butylbenzene	105	12.743	12.743	0.000	94	1249014	5.00	4.88	
139 1,3-Dichlorobenzene	146	12.841	12.841	0.000	98	574399	5.00	4.90	
140 4-Isopropyltoluene	119	12.853	12.847	0.006	97	1083406	5.00	4.80	
* 141 1,4-Dichlorobenzene-d4	152	12.896	12.896	0.000	94	897237	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.914	12.914	0.000	95	582578	5.00	4.92	
143 1,2,3-Trimethylbenzene	120	12.926	12.920	0.006	98	454253	5.00	4.79	
144 Benzyl chloride	126	12.993	12.987	0.006	98	82595	5.00	4.82	
145 p-Diethylbenzene	119	13.121	13.121	0.000	94	645226	5.00	4.93	
146 n-Butylbenzene	92	13.140	13.140	0.000	97	512152	5.00	5.01	
147 1,2-Dichlorobenzene	146	13.170	13.170	0.000	99	523017	5.00	4.97	
149 1,2-Dibromo-3-Chloropropane	155	13.713	13.713	0.000	87	24283	5.00	4.48	
150 1,3,5-Trichlorobenzene	180	13.841	13.841	0.000	97	378154	5.00	4.78	
151 1,2,4-Trichlorobenzene	180	14.261	14.261	0.000	94	299481	5.00	4.90	
152 Hexachlorobutadiene	225	14.341	14.341	0.000	95	114500	5.00	4.83	
153 Naphthalene	128	14.438	14.438	0.000	97	476203	5.00	4.90	
154 1,2,3-Trichlorobenzene	180	14.578	14.578	0.000	96	223965	5.00	5.15	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

LCS_ETBR_00007	Amount Added: 12.50	Units: uL	
MSV_LCS_VOC#1_00155	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00185	Amount Added: 12.50	Units: uL	
MSV_LLcentISS_00012	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 28-Feb-2024 20:34:25

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X04.D

Injection Date: 28-Feb-2024 19:06:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: LCSD

Worklist Smp#: 5

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

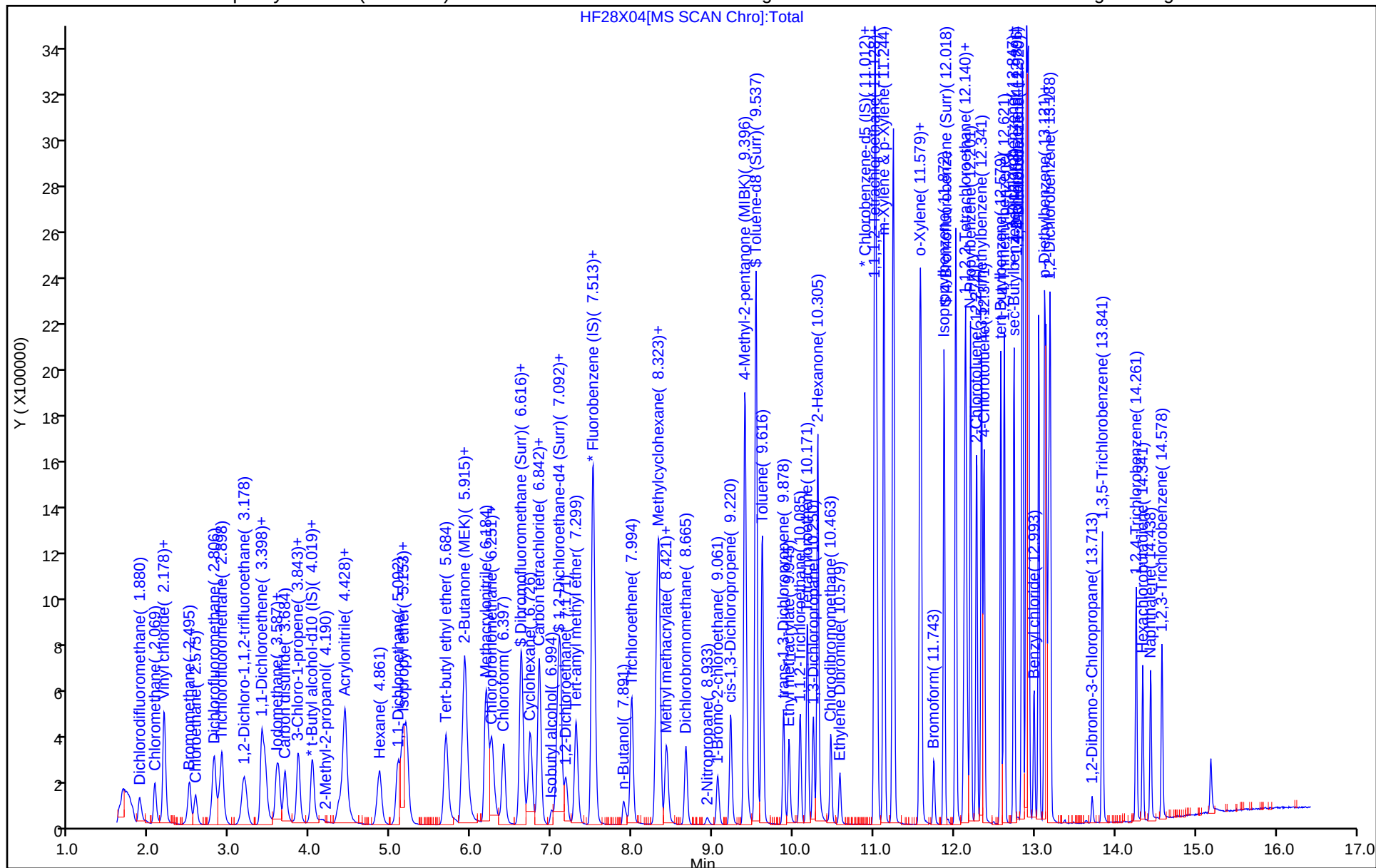
ALS Bottle#: 4

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\HF28X04.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 28-Feb-2024 19:06:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107468-005
Misc. Info.: LCSD
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240228-107468.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Feb-2024 20:34:03 Calib Date: 17-Oct-2023 09:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20231016-96799.b\HO16X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1673

First Level Reviewer: JS6E

Date: 28-Feb-2024 20:13:09

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.54	95.37
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.08
\$ 83 Toluene-d8 (Surr)	10.0	9.58	95.76
\$ 126 4-Bromofluorobenzene (Surr)	10.0	10.1	101.23

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-6 MS

Matrix: Water

Lab File ID: CF29X15.D

Analysis Method: 8260D

Date Collected: 02/23/2024 11:59

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 17:40

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 478337

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.27		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.69		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.89		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.05		0.50	0.080
75-34-3	1,1-Dichloroethane	5.44		0.50	0.10
75-35-4	1,1-Dichloroethene	5.85		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.97		0.50	0.080
107-06-2	1,2-Dichloroethane	4.84		0.50	0.070
78-87-5	1,2-Dichloropropane	5.26		0.50	0.10
78-93-3	2-Butanone (MEK)	65.2		5.0	1.0
591-78-6	2-Hexanone	72.3		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	71.6		5.0	1.0
67-64-1	Acetone	68.5		5.0	1.0
71-43-2	Benzene	5.32		0.50	0.10
74-97-5	Bromochloromethane	5.52		0.50	0.080
75-27-4	Bromodichloromethane	5.22		0.50	0.080
75-25-2	Bromoform	5.05		1.0	0.30
74-83-9	Bromomethane	5.09		0.50	0.10
75-15-0	Carbon disulfide	5.29		1.0	0.10
56-23-5	Carbon tetrachloride	5.61		0.50	0.10
108-90-7	Chlorobenzene	5.41		0.50	0.070
75-00-3	Chloroethane	5.39		0.50	0.10
67-66-3	Chloroform	5.25		0.50	0.090
74-87-3	Chloromethane	4.97		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	7.06		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.72		0.50	0.10
124-48-1	Dibromochloromethane	5.27		0.50	0.080
100-41-4	Ethylbenzene	5.31		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.54		0.50	0.080
75-09-2	Methylene Chloride	5.29		0.50	0.20
100-42-5	Styrene	5.27		0.50	0.070
127-18-4	Tetrachloroethene	12.0		0.50	0.20
108-88-3	Toluene	5.29		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-161790-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS Lab Sample ID: 410-161790-6 MS

Matrix: Water Lab File ID: CF29X15.D

Analysis Method: 8260D Date Collected: 02/23/2024 11:59

Sample wt/vol: 25 (mL) Date Analyzed: 02/29/2024 17:40

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

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

Analysis Batch No.: 478337 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.40		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	4.73		0.50	0.080
79-01-6	Trichloroethene	6.95		0.50	0.080
75-01-4	Vinyl chloride	5.23		0.50	0.10
1330-20-7	Xylenes, Total	15.9		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X15.D
 Lims ID: 410-161790-A-6 MS
 Client ID: HD-COD-SW-15-0/1-0 MS
 Sample Type: MS
 Inject. Date: 29-Feb-2024 17:40:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107545-016
 Operator ID: knk41612 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 03-Mar-2024 22:58:27 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 22:58:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.823	1.823	0.000	99	417250	5.00	5.94	
5 Chloromethane	50	2.000	2.000	0.000	99	437186	5.00	4.97	
6 Vinyl chloride	62	2.110	2.104	0.006	98	418792	5.00	5.23	
7 Butadiene	39	2.110	2.110	0.000	92	464317	5.00	5.75	
9 Bromomethane	94	2.408	2.402	0.006	90	281213	5.00	5.09	
10 Chloroethane	64	2.469	2.469	0.000	100	239622	5.00	5.39	
11 Dichlorofluoromethane	67	2.701	2.701	0.000	97	570606	5.00	4.72	
12 Trichlorofluoromethane	101	2.756	2.762	-0.006	98	520196	5.00	5.97	
13 Pentane	43	2.768	2.768	0.000	97	485966	5.00	5.26	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.055	3.055	0.000	93	364133	5.00	5.28	
18 1,1-Dichloroethene	96	3.238	3.238	0.000	98	287905	5.00	5.85	
20 Acetone	43	3.262	3.262	0.000	100	451378	62.6	68.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.280	3.280	0.000	90	269970	5.00	5.21	
22 Iodomethane	142	3.408	3.408	0.000	97	528386	5.00	5.12	
24 Isopropyl alcohol	45	3.420	3.414	0.006	30	58421	37.5	39.7	
25 Carbon disulfide	76	3.500	3.500	0.000	99	906981	5.00	5.29	
26 Methyl acetate	43	3.646	3.640	0.006	96	107356	5.00	4.81	
29 3-Chloro-1-propene	41	3.664	3.664	0.000	93	443284	5.00	4.80	
30 Methylene Chloride	84	3.829	3.835	-0.006	92	305800	5.00	5.29	
* 31 t-Butyl alcohol-d10 (IS)	65	3.841	3.841	0.000	39	125958	50.0	50.0	
32 2-Methyl-2-propanol	59	3.963	3.957	0.006	99	132644	50.0	46.5	
33 Acrylonitrile	53	4.146	4.146	0.000	99	270968	25.0	26.1	
34 Methyl tert-butyl ether	73	4.201	4.195	0.006	89	728043	5.00	4.54	
35 trans-1,2-Dichloroethene	96	4.207	4.207	0.000	99	316535	5.00	5.40	
36 Hexane	57	4.628	4.628	0.000	93	441478	5.00	5.56	
37 1,1-Dichloroethane	63	4.865	4.865	0.000	96	584718	5.00	5.44	
39 Isopropyl ether	45	4.932	4.932	0.000	94	959942	5.00	4.79	
40 2-Chloro-1,3-butadiene	53	4.975	4.975	0.000	89	461557	5.00	5.21	
41 Tert-butyl ethyl ether	59	5.475	5.469	0.006	98	875304	5.00	4.58	
42 2-Butanone (MEK)	43	5.682	5.682	0.000	99	916171	62.6	65.2	
43 cis-1,2-Dichloroethene	96	5.713	5.713	0.000	80	466651	5.00	7.06	
44 2,2-Dichloropropane	77	5.731	5.731	0.000	86	447013	5.00	5.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
45 Propionitrile	54	5.780	5.780	0.000	97	144788	37.5	41.0	
47 Methacrylonitrile	67	5.999	5.999	0.000	92	593544	37.5	44.3	
48 Chlorobromomethane	128	6.042	6.048	-0.006	90	163594	5.00	5.52	
49 Tetrahydrofuran	71	6.054	6.054	0.000	75	106675	25.0	26.4	
50 Chloroform	83	6.207	6.207	-0.001	93	574111	5.00	5.25	
\$ 54 Dibromofluoromethane (Surr)	113	6.426	6.426	0.000	94	519717	10.0	10.6	
53 1,1,1-Trichloroethane	97	6.426	6.432	-0.006	98	516777	5.00	5.69	
55 Cyclohexane	56	6.524	6.530	-0.006	90	540690	5.00	5.40	
56 Carbon tetrachloride	117	6.633	6.639	-0.006	97	448791	5.00	5.61	
57 1,1-Dichloropropene	75	6.652	6.645	0.007	98	450274	5.00	5.53	
58 Isobutyl alcohol	41	6.828	6.834	-0.006	92	127551	125.1	124.3	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.883	6.883	0.000	99	108234	10.0	10.9	
60 Benzene	78	6.914	6.914	0.000	97	1331747	5.00	5.32	
61 1,2-Dichloroethane	62	6.987	6.987	0.000	97	325971	5.00	4.84	
64 Tert-amyl methyl ether	73	7.115	7.115	0.000	99	796696	5.00	4.59	
* 65 Fluorobenzene (IS)	96	7.328	7.328	0.000	98	2206676	10.0	10.0	
66 n-Heptane	43	7.347	7.347	0.000	93	515096	5.00	6.08	
67 n-Butanol	56	7.743	7.737	0.006	90	229349	250.2	263.9	
68 Trichloroethene	95	7.816	7.816	0.000	96	450052	5.00	6.95	
69 Methylcyclohexane	83	8.121	8.121	0.000	90	595487	5.00	5.67	
70 1,2-Dichloropropane	63	8.157	8.157	0.000	97	342605	5.00	5.26	
71 2-ethoxy-2-methyl butane	87	8.176	8.176	0.000	93	470775	5.00	4.53	
74 1,4-Dioxane	88	8.249	8.255	-0.006	31	30923	125.1	175.2	M
73 Methyl methacrylate	69	8.255	8.255	0.000	93	145991	5.00	5.39	
72 Dibromomethane	93	8.267	8.261	0.006	93	160379	5.00	5.06	
76 Dichlorobromomethane	83	8.511	8.511	0.000	99	394587	5.00	5.22	
77 2-Nitropropane	41	8.810	8.804	0.006	97	34365	5.00	4.50	
80 cis-1,3-Dichloropropene	75	9.084	9.084	0.000	97	466361	5.00	4.72	
82 4-Methyl-2-pentanone (MIBK)	43	9.285	9.285	0.000	96	2509218	62.6	71.6	
\$ 83 Toluene-d8 (Surr)	98	9.413	9.413	0.000	93	2276162	10.0	10.3	
84 Toluene	92	9.492	9.492	0.000	98	885611	5.00	5.29	
85 trans-1,3-Dichloropropene	75	9.779	9.779	0.000	92	406718	5.00	4.73	
86 Ethyl methacrylate	69	9.852	9.852	0.000	90	320392	5.00	4.47	
87 1,1,2-Trichloroethane	97	9.986	9.986	0.000	90	240177	5.00	5.05	
88 Tetrachloroethene	166	10.072	10.072	0.000	97	926121	5.00	12.0	
89 1,3-Dichloropropane	76	10.157	10.157	0.000	90	405606	5.00	4.97	
106 2-Hexanone	43	10.224	10.224	0.000	97	1864202	62.6	72.3	
108 Chlorodibromomethane	129	10.376	10.376	0.000	89	305315	5.00	5.27	
110 Ethylene Dibromide	107	10.486	10.486	0.000	100	229338	5.00	4.97	
* 111 Chlorobenzene-d5 (IS)	117	10.943	10.943	0.000	83	1740883	10.0	10.0	
112 1-Chlorohexane	91	10.962	10.962	0.000	98	465108	5.00	4.99	
113 Chlorobenzene	112	10.968	10.968	0.000	97	1057608	5.00	5.41	
114 1,1,1,2-Tetrachloroethane	131	11.059	11.059	0.000	97	356213	5.00	5.27	
115 Ethylbenzene	91	11.065	11.065	0.000	98	1736018	5.00	5.31	
116 m-Xylene & p-Xylene	106	11.187	11.181	0.006	97	1410268	10.0	10.7	
118 o-Xylene	106	11.523	11.523	0.000	96	677415	5.00	5.17	
119 Styrene	104	11.541	11.541	0.000	95	1131620	5.00	5.27	
120 Bromoform	173	11.693	11.693	0.000	99	183164	5.00	5.05	
121 Isopropylbenzene	105	11.833	11.833	0.000	95	1781842	5.00	5.72	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	96	817316	10.0	9.25	
126 1,1,2,2-Tetrachloroethane	83	12.090	12.090	0.000	69	291112	5.00	4.89	
125 Bromobenzene	156	12.096	12.096	0.000	86	462530	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
127 trans-1,4-Dichloro-2-butene	53	12.120	12.114	0.006	90	307049	25.0	19.1	
128 1,2,3-Trichloropropane	110	12.132	12.132	0.000	80	78139	5.00	4.82	
129 N-Propylbenzene	91	12.175	12.169	0.006	98	2104818	5.00	5.41	
130 2-Chlorotoluene	126	12.248	12.248	0.000	98	441689	5.00	5.22	
131 1,3,5-Trimethylbenzene	105	12.315	12.315	0.000	94	1517847	5.00	5.24	
132 4-Chlorotoluene	126	12.339	12.339	0.000	97	468642	5.00	5.28	
133 tert-Butylbenzene	134	12.559	12.559	0.000	92	329745	5.00	4.92	
135 1,2,4-Trimethylbenzene	105	12.602	12.602	0.000	97	1531771	5.00	5.14	
136 sec-Butylbenzene	105	12.730	12.730	0.000	93	1998693	5.00	5.47	
137 1,3-Dichlorobenzene	146	12.821	12.821	0.000	98	928256	5.00	5.30	
138 4-Isopropyltoluene	119	12.839	12.839	0.000	97	1736817	5.00	5.27	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.876	0.006	93	1027420	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.900	12.894	0.006	96	939413	5.00	5.29	
141 1,2,3-Trimethylbenzene	120	12.913	12.913	-0.001	98	679406	5.00	4.96	
142 Benzyl chloride	126	12.980	12.980	0.000	98	121531	5.00	5.10	
145 p-Diethylbenzene	119	13.114	13.114	0.000	95	1114222	5.00	5.47	
143 n-Butylbenzene	92	13.132	13.132	0.000	97	861936	5.00	5.40	
144 1,2-Dichlorobenzene	146	13.162	13.162	0.000	99	836340	5.00	5.23	
148 1,2-Dibromo-3-Chloropropane	155	13.717	13.717	0.000	91	38462	5.00	4.58	
149 1,3,5-Trichlorobenzene	180	13.839	13.839	0.000	98	684768	5.00	5.28	
150 1,2,4-Trichlorobenzene	180	14.272	14.272	0.000	94	513022	5.00	5.12	
151 Hexachlorobutadiene	225	14.357	14.357	0.000	95	316022	5.00	5.88	
152 Naphthalene	128	14.455	14.455	0.000	96	714330	5.00	4.82	
153 1,2,3-Trichlorobenzene	180	14.595	14.595	0.000	96	368974	5.00	5.04	
154 2-Methylnaphthalene	142	15.217	15.211	0.006	91	131375	5.00	3.30	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_QC_GAS524_00154

Amount Added: 5.38

Units: uL

MSV_LCS_VOC#1_00155

Amount Added: 5.38

Units: uL

MSV_HP25_ISSS_00084

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 03-Mar-2024 22:58:27

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X15.D

Injection Date: 29-Feb-2024 17:40:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: 410-161790-A-6 MS

Worklist Smp#: 16

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

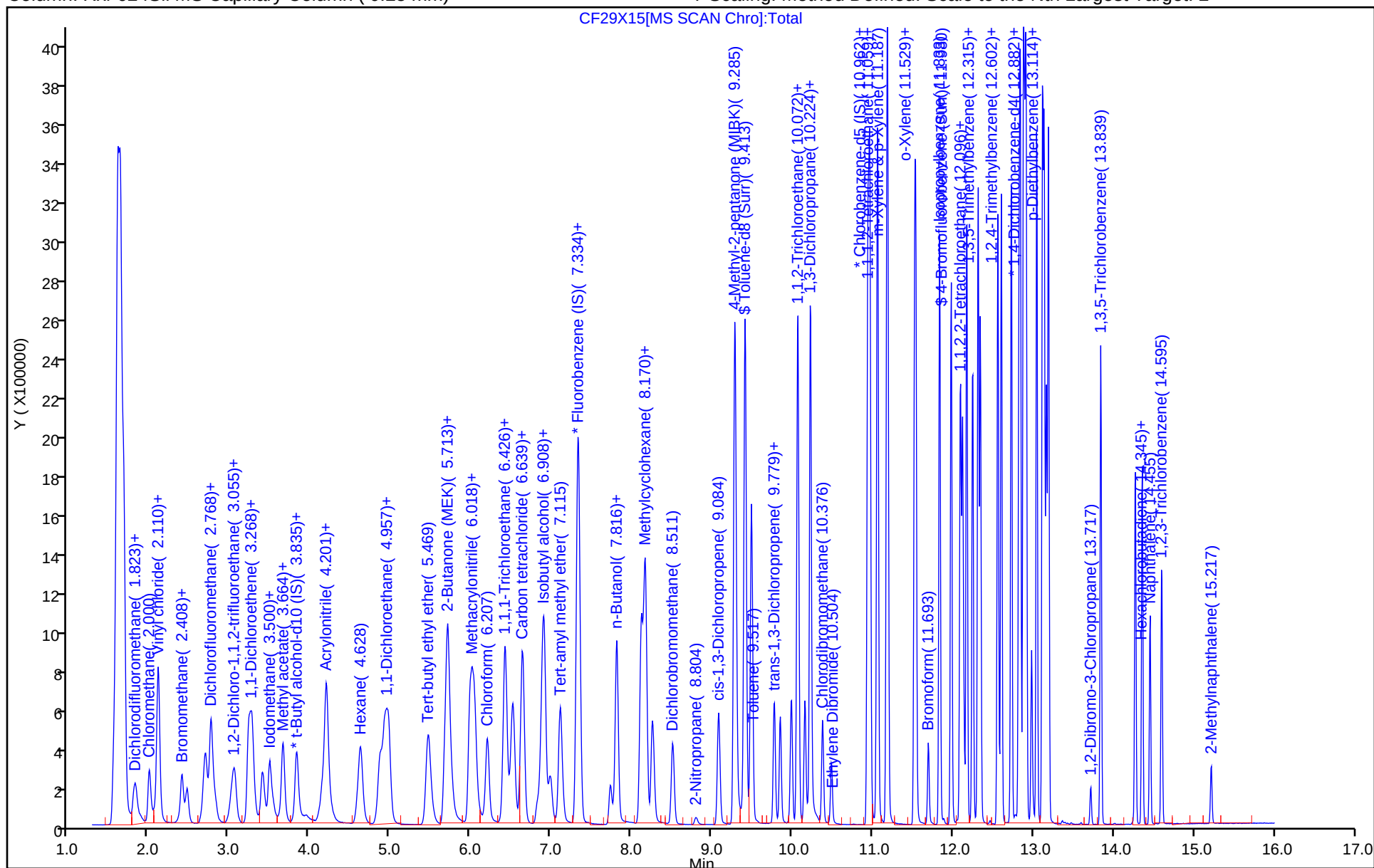
ALS Bottle#: 15

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X15.D
Lims ID: 410-161790-A-6 MS
Client ID: HD-COD-SW-15-0/1-0 MS
Sample Type: MS
Inject. Date: 29-Feb-2024 17:40:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107545-016
Operator ID: knk41612 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2024 22:58:27 Calib Date: 11-Dec-2023 23:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 22:58:27

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.6	105.60
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.9	108.66
\$ 83 Toluene-d8 (Surr)	10.0	10.3	103.43
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.25	92.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-6 MSD

Matrix: Water

Lab File ID: CF29X16.D

Analysis Method: 8260D

Date Collected: 02/23/2024 11:59

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 18:02

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.: 478337

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.70		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	5.21		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.39		0.50	0.080
75-34-3	1,1-Dichloroethane	5.82		0.50	0.10
75-35-4	1,1-Dichloroethene	6.13		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.22		0.50	0.080
107-06-2	1,2-Dichloroethane	5.20		0.50	0.070
78-87-5	1,2-Dichloropropane	5.55		0.50	0.10
78-93-3	2-Butanone (MEK)	66.0		5.0	1.0
591-78-6	2-Hexanone	72.6		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	71.1		5.0	1.0
67-64-1	Acetone	70.8		5.0	1.0
71-43-2	Benzene	5.61		0.50	0.10
74-97-5	Bromochloromethane	5.81		0.50	0.080
75-27-4	Bromodichloromethane	5.49		0.50	0.080
75-25-2	Bromoform	5.35		1.0	0.30
74-83-9	Bromomethane	5.61		0.50	0.10
75-15-0	Carbon disulfide	5.57		1.0	0.10
56-23-5	Carbon tetrachloride	5.94		0.50	0.10
108-90-7	Chlorobenzene	5.72		0.50	0.070
75-00-3	Chloroethane	5.83		0.50	0.10
67-66-3	Chloroform	5.52		0.50	0.090
74-87-3	Chloromethane	5.27		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	7.38		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.07		0.50	0.10
124-48-1	Dibromochloromethane	5.71		0.50	0.080
100-41-4	Ethylbenzene	5.71		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.80		0.50	0.080
75-09-2	Methylene Chloride	5.58		0.50	0.20
100-42-5	Styrene	5.58		0.50	0.070
127-18-4	Tetrachloroethene	12.6		0.50	0.20
108-88-3	Toluene	5.69		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-161790-1

SDG No.:

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

Lab Sample ID: 410-161790-6 MSD

Matrix: Water

Lab File ID: CF29X16.D

Analysis Method: 8260D

Date Collected: 02/23/2024 11:59

Sample wt/vol: 25 (mL)

Date Analyzed: 02/29/2024 18:02

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.: 478337

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.73		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.10		0.50	0.080
79-01-6	Trichloroethene	7.31		0.50	0.080
75-01-4	Vinyl chloride	5.82		0.50	0.10
1330-20-7	Xylenes, Total	17.0		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X16.D
 Lims ID: 410-161790-A-6 MSD
 Client ID: HD-COD-SW-15-0/1-0 MSD
 Sample Type: MSD
 Inject. Date: 29-Feb-2024 18:02:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0107545-017
 Operator ID: knk41612 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 03-Mar-2024 22:59:24 Calib Date: 11-Dec-2023 23:41:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 22:59:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.817	1.823	-0.006	99	440928	5.00	6.39	
5 Chloromethane	50	1.994	2.000	-0.006	99	455126	5.00	5.27	
6 Vinyl chloride	62	2.104	2.104	0.000	98	458620	5.00	5.82	
7 Butadiene	39	2.110	2.110	0.000	92	493459	5.00	6.22	
9 Bromomethane	94	2.402	2.402	0.000	90	304665	5.00	5.61	
10 Chloroethane	64	2.463	2.469	-0.006	100	254507	5.00	5.83	
11 Dichlorofluoromethane	67	2.695	2.701	-0.006	97	606639	5.00	5.10	
12 Trichlorofluoromethane	101	2.762	2.762	0.000	98	548033	5.00	6.40	
13 Pentane	43	2.768	2.768	0.000	97	492140	5.00	5.42	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.049	3.055	-0.006	93	386406	5.00	5.70	
18 1,1-Dichloroethene	96	3.231	3.238	-0.007	98	296757	5.00	6.13	
20 Acetone	43	3.262	3.262	0.000	100	477743	62.6	70.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.274	3.280	-0.006	89	275713	5.00	5.42	
22 Iodomethane	142	3.408	3.408	0.000	97	548147	5.00	5.41	
24 Isopropyl alcohol	45	3.396	3.414	-0.018	96	93738	37.5	62.3	
25 Carbon disulfide	76	3.494	3.500	-0.006	99	938681	5.00	5.57	
26 Methyl acetate	43	3.640	3.640	0.000	97	113586	5.00	4.97	
29 3-Chloro-1-propene	41	3.658	3.664	-0.006	94	463230	5.00	5.11	
30 Methylene Chloride	84	3.829	3.835	-0.006	94	317257	5.00	5.58	
* 31 t-Butyl alcohol-d10 (IS)	65	3.841	3.841	0.000	90	128835	50.0	50.0	
32 2-Methyl-2-propanol	59	3.951	3.957	-0.006	99	136917	50.0	46.9	
33 Acrylonitrile	53	4.146	4.146	0.000	99	298260	25.0	28.1	
34 Methyl tert-butyl ether	73	4.195	4.195	0.000	89	756182	5.00	4.80	
35 trans-1,2-Dichloroethene	96	4.201	4.207	-0.006	99	330176	5.00	5.73	
36 Hexane	57	4.621	4.628	-0.007	92	453798	5.00	5.82	
37 1,1-Dichloroethane	63	4.859	4.865	-0.006	96	615061	5.00	5.82	
39 Isopropyl ether	45	4.920	4.932	-0.012	94	1008579	5.00	5.12	
40 2-Chloro-1,3-butadiene	53	4.975	4.975	0.000	89	479177	5.00	5.51	
41 Tert-butyl ethyl ether	59	5.463	5.469	-0.006	98	918895	5.00	4.90	
42 2-Butanone (MEK)	43	5.682	5.682	0.000	99	947631	62.6	66.0	
43 cis-1,2-Dichloroethene	96	5.713	5.713	0.000	80	479632	5.00	7.38	
44 2,2-Dichloropropane	77	5.725	5.731	-0.006	86	463490	5.00	5.28	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
45 Propionitrile	54	5.774	5.780	-0.006	98	139958	37.5	38.7	
47 Methacrylonitrile	67	5.993	5.999	-0.006	92	620610	37.5	45.3	
48 Chlorobromomethane	128	6.048	6.048	0.000	92	169085	5.00	5.81	
49 Tetrahydrofuran	71	6.048	6.054	-0.006	83	112591	25.0	27.2	
50 Chloroform	83	6.200	6.207	-0.007	93	592767	5.00	5.52	
\$ 54 Dibromofluoromethane (Surr)	113	6.426	6.426	0.000	94	508872	10.0	10.5	
53 1,1,1-Trichloroethane	97	6.432	6.432	0.000	98	540522	5.00	6.05	
55 Cyclohexane	56	6.523	6.530	-0.007	90	557181	5.00	5.67	
56 Carbon tetrachloride	117	6.639	6.639	0.000	94	466547	5.00	5.94	
57 1,1-Dichloropropene	75	6.645	6.645	0.000	97	466465	5.00	5.82	
58 Isobutyl alcohol	41	6.828	6.834	-0.006	90	125529	125.1	119.6	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.883	6.883	0.000	99	105110	10.0	10.7	
60 Benzene	78	6.914	6.914	0.000	97	1380272	5.00	5.61	
61 1,2-Dichloroethane	62	6.993	6.987	0.006	97	343909	5.00	5.20	
64 Tert-amyl methyl ether	73	7.109	7.115	-0.006	99	838151	5.00	4.91	
* 65 Fluorobenzene (IS)	96	7.328	7.328	0.000	99	2168389	10.0	10.0	
66 n-Heptane	43	7.347	7.347	-0.001	93	522089	5.00	6.27	
67 n-Butanol	56	7.737	7.737	0.000	89	225748	250.2	253.9	
68 Trichloroethene	95	7.816	7.816	0.000	96	465316	5.00	7.31	
69 Methylcyclohexane	83	8.121	8.121	0.000	90	616098	5.00	5.97	
70 1,2-Dichloropropane	63	8.157	8.157	0.000	97	355024	5.00	5.55	
71 2-ethoxy-2-methyl butane	87	8.176	8.176	0.000	93	493281	5.00	4.83	
74 1,4-Dioxane	88	8.255	8.255	0.000	31	28824	125.1	159.6	M
73 Methyl methacrylate	69	8.261	8.255	0.006	91	149741	5.00	5.41	
72 Dibromomethane	93	8.267	8.261	0.006	93	163833	5.00	5.26	
76 Dichlorobromomethane	83	8.511	8.511	0.000	99	407464	5.00	5.49	
77 2-Nitropropane	41	8.804	8.804	0.000	99	34589	5.00	4.43	
80 cis-1,3-Dichloropropene	75	9.084	9.084	0.000	97	491926	5.00	5.07	
82 4-Methyl-2-pentanone (MIBK)	43	9.285	9.285	0.000	96	2546651	62.6	71.1	
\$ 83 Toluene-d8 (Surr)	98	9.413	9.413	0.000	93	2219966	10.0	10.4	
84 Toluene	92	9.492	9.492	0.000	98	925080	5.00	5.69	
85 trans-1,3-Dichloropropene	75	9.773	9.779	-0.006	91	426218	5.00	5.10	
86 Ethyl methacrylate	69	9.852	9.852	0.000	90	339046	5.00	4.87	
87 1,1,2-Trichloroethane	97	9.986	9.986	0.000	90	248813	5.00	5.39	
88 Tetrachloroethene	166	10.072	10.072	0.000	97	942163	5.00	12.6	
89 1,3-Dichloropropane	76	10.157	10.157	0.000	90	421078	5.00	5.31	
106 2-Hexanone	43	10.224	10.224	0.000	97	1914374	62.6	72.6	
108 Chlorodibromomethane	129	10.376	10.376	0.000	89	321437	5.00	5.71	
110 Ethylene Dibromide	107	10.486	10.486	0.000	99	233708	5.00	5.22	
* 111 Chlorobenzene-d5 (IS)	117	10.943	10.943	0.000	84	1689962	10.0	10.0	
112 1-Chlorohexane	91	10.962	10.962	0.000	98	489314	5.00	5.41	
113 Chlorobenzene	112	10.968	10.968	0.000	97	1085111	5.00	5.72	
114 1,1,1,2-Tetrachloroethane	131	11.059	11.059	0.000	96	373944	5.00	5.70	
115 Ethylbenzene	91	11.065	11.065	0.000	98	1810070	5.00	5.71	
116 m-Xylene & p-Xylene	106	11.181	11.181	0.000	97	1464049	10.0	11.5	
118 o-Xylene	106	11.523	11.523	0.000	96	704412	5.00	5.54	
119 Styrene	104	11.541	11.541	0.000	95	1162087	5.00	5.58	
120 Bromoform	173	11.693	11.693	0.000	98	188527	5.00	5.35	
121 Isopropylbenzene	105	11.833	11.833	0.000	95	1839292	5.00	6.08	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.980	11.980	0.000	96	802042	10.0	9.35	
126 1,1,2,2-Tetrachloroethane	83	12.089	12.090	-0.001	68	302809	5.00	5.21	
125 Bromobenzene	156	12.096	12.096	0.000	86	479939	5.00	5.58	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
127 trans-1,4-Dichloro-2-butene	53	12.120	12.114	0.006	90	314471	25.0	20.0	
128 1,2,3-Trichloropropane	110	12.132	12.132	0.000	80	78026	5.00	4.93	
129 N-Propylbenzene	91	12.175	12.169	0.006	98	2166590	5.00	5.70	
130 2-Chlorotoluene	126	12.248	12.248	0.000	98	458391	5.00	5.55	
131 1,3,5-Trimethylbenzene	105	12.315	12.315	0.000	95	1583388	5.00	5.59	
132 4-Chlorotoluene	126	12.339	12.339	0.000	97	479749	5.00	5.54	
133 tert-Butylbenzene	134	12.559	12.559	0.000	92	341703	5.00	5.22	
135 1,2,4-Trimethylbenzene	105	12.602	12.602	0.000	97	1600474	5.00	5.49	
136 sec-Butylbenzene	105	12.730	12.730	0.000	93	2046395	5.00	5.74	
137 1,3-Dichlorobenzene	146	12.821	12.821	0.000	98	967657	5.00	5.66	
138 4-Isopropyltoluene	119	12.839	12.839	0.000	97	1801399	5.00	5.59	
* 139 1,4-Dichlorobenzene-d4	152	12.882	12.876	0.006	92	1003224	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.894	12.894	0.000	96	967926	5.00	5.58	
141 1,2,3-Trimethylbenzene	120	12.912	12.913	-0.001	98	707986	5.00	5.29	
142 Benzyl chloride	126	12.980	12.980	0.000	98	127796	5.00	5.49	
145 p-Diethylbenzene	119	13.114	13.114	0.000	95	1146656	5.00	5.76	
143 n-Butylbenzene	92	13.132	13.132	0.000	97	885227	5.00	5.68	
144 1,2-Dichlorobenzene	146	13.162	13.162	0.000	99	869311	5.00	5.57	
148 1,2-Dibromo-3-Chloropropane	155	13.717	13.717	0.000	90	40212	5.00	4.91	
149 1,3,5-Trichlorobenzene	180	13.839	13.839	0.000	97	717734	5.00	5.67	
150 1,2,4-Trichlorobenzene	180	14.272	14.272	0.000	94	540496	5.00	5.53	
151 Hexachlorobutadiene	225	14.357	14.357	0.000	95	324658	5.00	6.19	
152 Naphthalene	128	14.455	14.455	0.000	96	768218	5.00	5.30	
153 1,2,3-Trichlorobenzene	180	14.595	14.595	0.000	96	391674	5.00	5.48	
154 2-Methylnaphthalene	142	15.217	15.211	0.006	92	162132	5.00	4.17	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_QC_GAS524_00154

Amount Added: 5.38

Units: uL

MSV_LCS_VOC#1_00155

Amount Added: 5.38

Units: uL

MSV_HP25_ISSS_00084

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 03-Mar-2024 22:59:54

Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X16.D

Injection Date: 29-Feb-2024 18:02:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: 410-161790-A-6 MSD

Worklist Smp#: 17

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

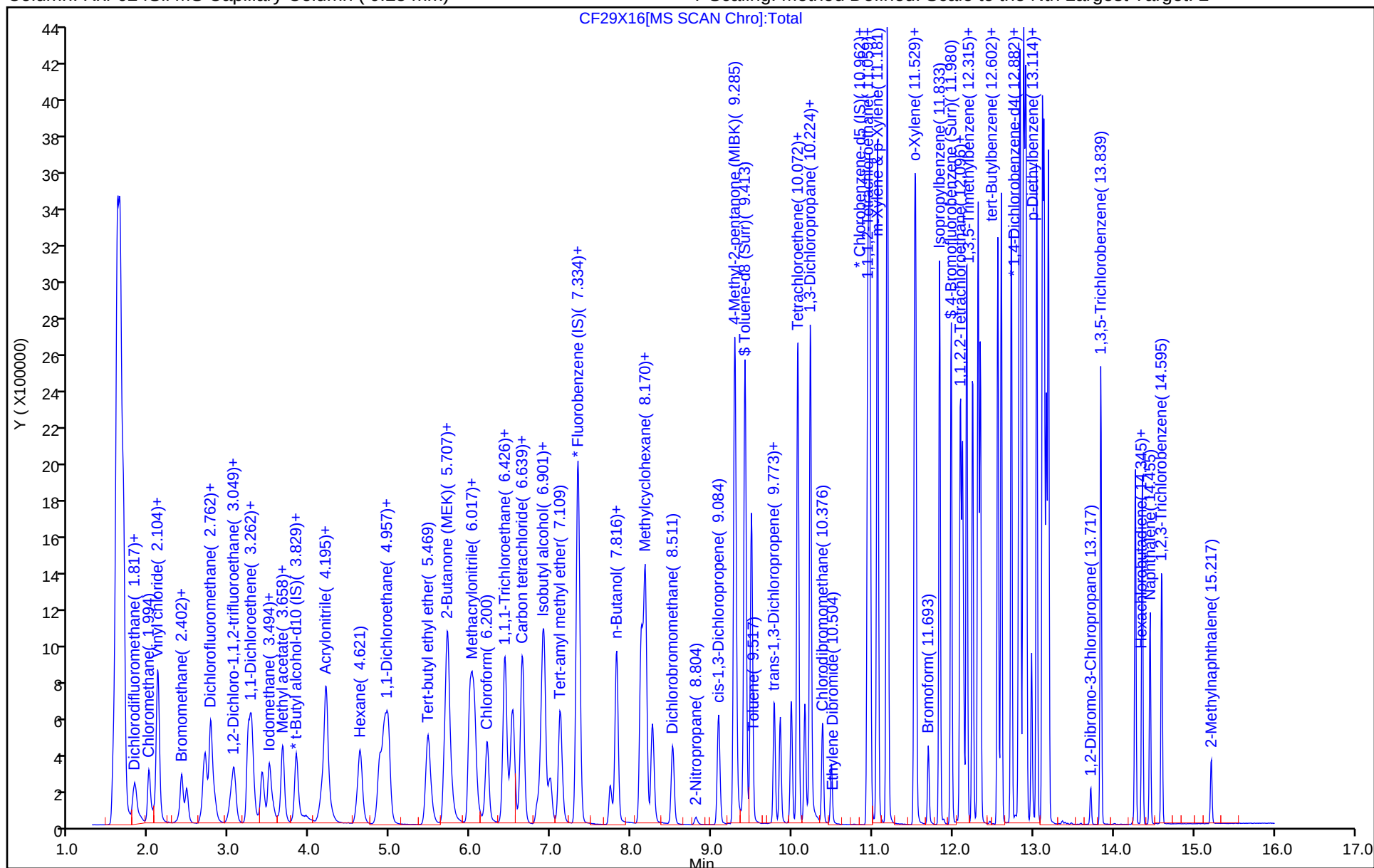
ALS Bottle#: 16

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\CF29X16.D
Lims ID: 410-161790-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0 MSD
Sample Type: MSD
Inject. Date: 29-Feb-2024 18:02:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0107545-017
Operator ID: knk41612 Instrument ID: 10193
Method: \\chromfs\Lancaster\ChromData\10193\20240229-107545.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2024 22:59:24 Calib Date: 11-Dec-2023 23:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20231211-101546.b\CD11X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: N9NA

Date: 03-Mar-2024 22:59:24

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	10.5	105.22
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	107.39
\$ 83 Toluene-d8 (Surr)	10.0	10.4	103.92
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.35	93.49

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-161790-1

SDG No.:

Instrument ID: 19094

Start Date: 10/17/2023 03:41

Analysis Batch Number: 431955

End Date: 10/17/2023 10:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-431955/1		10/17/2023 03:41	1	HO16T01.D	R-624SilMS 30m 0.25 (mm)
IC 410-431955/3		10/17/2023 04:22	1	HO16X02.D	R-624SilMS 30m 0.25 (mm)
IC 410-431955/4		10/17/2023 04:42	1	HO16X03.D	R-624SilMS 30m 0.25 (mm)
IC 410-431955/5		10/17/2023 05:02	1	HO16X04.D	R-624SilMS 30m 0.25 (mm)
IC 410-431955/6		10/17/2023 05:22	1	HO16X05.D	R-624SilMS 30m 0.25 (mm)
IC 410-431955/7		10/17/2023 05:42	1	HO16X06.D	R-624SilMS 30m 0.25 (mm)
IC 410-431955/8		10/17/2023 06:02	1	HO16X07.D	R-624SilMS 30m 0.25 (mm)
CCV 410-431955/1008		10/17/2023 06:02	1		R-624SilMS 30m 0.25 (mm)
IC 410-431955/9		10/17/2023 06:22	1	HO16X08.D	R-624SilMS 30m 0.25 (mm)
ICV 410-431955/11		10/17/2023 07:03	1		R-624SilMS 30m 0.25 (mm)
IC 410-431955/13		10/17/2023 07:43	1	HO16X12.D	R-624SilMS 30m 0.25 (mm)
IC 410-431955/14		10/17/2023 08:03	1	HO16X13.D	R-624SilMS 30m 0.25 (mm)
IC 410-431955/15		10/17/2023 08:23	1	HO16X14.D	R-624SilMS 30m 0.25 (mm)
IC 410-431955/16		10/17/2023 08:43	1	HO16X15.D	R-624SilMS 30m 0.25 (mm)
IC 410-431955/17		10/17/2023 09:03	1	HO16X16.D	R-624SilMS 30m 0.25 (mm)
ICIS 410-431955/18		10/17/2023 09:23	1	HO16X17.D	R-624SilMS 30m 0.25 (mm)
CCVIS 410-431955/1018		10/17/2023 09:23	1		R-624SilMS 30m 0.25 (mm)
IC 410-431955/19		10/17/2023 09:43	1	HO16X18.D	R-624SilMS 30m 0.25 (mm)
ICV 410-431955/21		10/17/2023 10:24	1	HO16X20.D	R-624SilMS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-161790-1

SDG No.:

Instrument ID: 10193

Start Date: 12/11/2023 17:07

Analysis Batch Number: 452392

End Date: 12/12/2023 00:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-452392/1		12/11/2023 17:07	1	CD11T01.D	R-624SilMS 30m 0.25 (mm)
IC 410-452392/3		12/11/2023 17:46	1	copy_CD11X02.D	R-624SilMS 30m 0.25 (mm)
IC 410-452392/4		12/11/2023 18:08	1	CD11X03.D	R-624SilMS 30m 0.25 (mm)
IC 410-452392/5		12/11/2023 18:30	1	CD11X04.D	R-624SilMS 30m 0.25 (mm)
IC 410-452392/6		12/11/2023 18:52	1	CD11X05.D	R-624SilMS 30m 0.25 (mm)
IC 410-452392/7		12/11/2023 19:14	1	CD11X06.D	R-624SilMS 30m 0.25 (mm)
IC 410-452392/8		12/11/2023 19:37	1	CD11X07.D	R-624SilMS 30m 0.25 (mm)
IC 410-452392/9		12/11/2023 19:59	1	CD11X08.D	R-624SilMS 30m 0.25 (mm)
ICV 410-452392/11		12/11/2023 20:43	1		R-624SilMS 30m 0.25 (mm)
IC 410-452392/13		12/11/2023 21:27	1	CD11X12.D	R-624SilMS 30m 0.25 (mm)
IC 410-452392/14		12/11/2023 21:50	1	CD11X13.D	R-624SilMS 30m 0.25 (mm)
IC 410-452392/15		12/11/2023 22:12	1	CD11X14.D	R-624SilMS 30m 0.25 (mm)
IC 410-452392/16		12/11/2023 22:34	1	CD11X15.D	R-624SilMS 30m 0.25 (mm)
IC 410-452392/17		12/11/2023 22:57	1	CD11X16.D	R-624SilMS 30m 0.25 (mm)
ICIS 410-452392/18		12/11/2023 23:19	1	CD11X17.D	R-624SilMS 30m 0.25 (mm)
IC 410-452392/19		12/11/2023 23:41	1	CD11X18.D	R-624SilMS 30m 0.25 (mm)
ICV 410-452392/21		12/12/2023 00:25	1	CD11X20.D	R-624SilMS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-161790-1

SDG No.:

Instrument ID: 19094

Start Date: 02/28/2024 17:52

Analysis Batch Number: 478015

End Date: 02/29/2024 03:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-478015/1		02/28/2024 17:52	1	HF28T01.D	R-624SilMS 30m 0.25 (mm)
CCVIS 410-478015/3		02/28/2024 18:25	1	HF28X02.D	R-624SilMS 30m 0.25 (mm)
LCS 410-478015/4		02/28/2024 18:46	1	HF28X03.D	R-624SilMS 30m 0.25 (mm)
LCSD 410-478015/5		02/28/2024 19:06	1	HF28X04.D	R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/28/2024 19:26	1		R-624SilMS 30m 0.25 (mm)
MB 410-478015/7		02/28/2024 19:47	1	HF28X06.D	R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/28/2024 20:07	1		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/28/2024 20:27	1		R-624SilMS 30m 0.25 (mm)
410-161790-14	HD-QC1-0/1-2	02/28/2024 20:48	1	HF28X09.D	R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/28/2024 21:08	1		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/28/2024 21:28	1		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/28/2024 21:49	5		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/28/2024 22:09	5		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/28/2024 22:29	5		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/28/2024 22:49	5		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/28/2024 23:10	10		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/28/2024 23:30	10		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/28/2024 23:50	10		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/29/2024 00:11	5000		R-624SilMS 30m 0.25 (mm)
410-161790-9	HD-COD-SW-26-0/1-0	02/29/2024 00:31	1	HF28X20.D	R-624SilMS 30m 0.25 (mm)
410-161790-10	HD-COD-SW-27-0/1-0	02/29/2024 00:51	1	HF28X21.D	R-624SilMS 30m 0.25 (mm)
410-161790-11	HD-COD-SW-28-0/1-0	02/29/2024 01:12	1	HF28X22.D	R-624SilMS 30m 0.25 (mm)
410-161790-12	HD-COD-SW-29-0/1-0	02/29/2024 01:32	1	HF28X23.D	R-624SilMS 30m 0.25 (mm)
410-161790-8	HD-COD-SW-17-0/1-0	02/29/2024 01:52	1	HF28X24.D	R-624SilMS 30m 0.25 (mm)
410-161790-8 DL	HD-COD-SW-17-0/1-0 DL	02/29/2024 02:12	10	HF28X25.D	R-624SilMS 30m 0.25 (mm)
410-161790-13	HD-QC1-0/1-1	02/29/2024 02:33	1	HF28X26.D	R-624SilMS 30m 0.25 (mm)
410-161790-13 DL	HD-QC1-0/1-1 DL	02/29/2024 02:53	10	HF28X27.D	R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/29/2024 03:13	200		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/29/2024 03:34	2000		R-624SilMS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-161790-1

SDG No.:

Instrument ID: 10193

Start Date: 02/29/2024 12:18

Analysis Batch Number: 478337

End Date: 02/29/2024 22:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-478337/1		02/29/2024 12:18	1	CF29T02.D	R-624SilMS 30m 0.25 (mm)
CCVIS 410-478337/3		02/29/2024 12:51	1	CF29X02.D	R-624SilMS 30m 0.25 (mm)
LCS 410-478337/5		02/29/2024 13:35	1	CF29X04.D	R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/29/2024 13:58	1		R-624SilMS 30m 0.25 (mm)
MB 410-478337/7		02/29/2024 14:20	1	CF29X06.D	R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/29/2024 14:42	1		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/29/2024 15:04	1		R-624SilMS 30m 0.25 (mm)
410-161790-1	HD-COD-SW-6-0/1-0	02/29/2024 15:27	1	CF29X09.D	R-624SilMS 30m 0.25 (mm)
410-161790-2	HD-COD-SW-7-0/1-0	02/29/2024 15:49	1	CF29X10.D	R-624SilMS 30m 0.25 (mm)
410-161790-3	HD-COD-SW-8-0/1-0	02/29/2024 16:11	1	CF29X11.D	R-624SilMS 30m 0.25 (mm)
410-161790-4	HD-COD-SW-9-0/1-0	02/29/2024 16:33	1	CF29X12.D	R-624SilMS 30m 0.25 (mm)
410-161790-5	HD-COD-SW-13-0/1-0	02/29/2024 16:55	1	CF29X13.D	R-624SilMS 30m 0.25 (mm)
410-161790-6	HD-COD-SW-15-0/1-0	02/29/2024 17:17	1	CF29X14.D	R-624SilMS 30m 0.25 (mm)
410-161790-6 MS	HD-COD-SW-15-0/1-0 MS MS	02/29/2024 17:40	1	CF29X15.D	R-624SilMS 30m 0.25 (mm)
410-161790-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	02/29/2024 18:02	1	CF29X16.D	R-624SilMS 30m 0.25 (mm)
410-161790-7	HD-COD-SW-16-0/1-0	02/29/2024 18:24	1	CF29X17.D	R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/29/2024 18:46	1		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/29/2024 19:09	1		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/29/2024 21:00	10		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/29/2024 21:22	100		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/29/2024 21:44	10		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/29/2024 22:06	100		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/29/2024 22:29	20		R-624SilMS 30m 0.25 (mm)
ZZZZZ		02/29/2024 22:51	200		R-624SilMS 30m 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-161790-1

SDG No.: _____

Batch Number: 431955 Batch Start Date: 10/17/23 03:41 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00006	MSV_CCV_CYC 00007	MSV_CCV_V5ACE 00029
BFB 410-431955/1		8260D			1 uL	1 uL				
IC 410-431955/3		8260D			25 mL	25 mL	2711		1.6 uL	0.2 uL
IC 410-431955/4		8260D			25 mL	25 mL	2711		4 uL	0.5 uL
IC 410-431955/5		8260D			25 mL	25 mL	2711		8 uL	1 uL
IC 410-431955/6		8260D			25 mL	25 mL	2711		8 uL	1 uL
IC 410-431955/7		8260D			25 mL	25 mL	2711		8 uL	1 uL
IC 410-431955/8		8260D			25 mL	25 mL	2711		8 uL	1 uL
IC 410-431955/9		8260D			25 mL	25 mL	2711		20 uL	2.5 uL
IC 410-431955/13		8260D			25 mL	25 mL	2711			
IC 410-431955/14		8260D			25 mL	25 mL	2711			
IC 410-431955/15		8260D			25 mL	25 mL	2711			
IC 410-431955/16		8260D			25 mL	25 mL	2711			
IC 410-431955/17		8260D			25 mL	25 mL	2711			
ICIS 410-431955/18		8260D			25 mL	25 mL	2711			
IC 410-431955/19		8260D			25 mL	25 mL	2711			
ICV 410-431955/21		8260D			25 mL	25 mL	2711	12.5 uL		

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_DME 00049	MSV_LCS_ACROL 00135	MSV_LCS_EE 00007	MSV_LCS_Penta 00033	MSV_LCS_VOC#1 00134	MSV_LL #1_826 00099
BFB 410-431955/1		8260D								
IC 410-431955/3		8260D			0.2 uL					
IC 410-431955/4		8260D			0.5 uL					
IC 410-431955/5		8260D			1 uL					
IC 410-431955/6		8260D			1 uL					
IC 410-431955/7		8260D			1 uL					
IC 410-431955/8		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.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-161790-1

SDG No.: _____

Batch Number: 431955 Batch Start Date: 10/17/23 03:41 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_DME_00049	MSV_LCS_ACROL_00135	MSV_LCS_EE_00007	MSV_LCS_Penta_00033	MSV_LCS_VOC#1_00134	MSV_LL_#1_826_00099
IC 410-431955/9		8260D			2.5 uL					
IC 410-431955/13		8260D								2 uL
IC 410-431955/14		8260D								2 uL
IC 410-431955/15		8260D								2 uL
IC 410-431955/16		8260D								2 uL
IC 410-431955/17		8260D								5 uL
ICIS 410-431955/18		8260D								10 uL
IC 410-431955/19		8260D								25 uL
ICV 410-431955/21		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_00108	MSV_LL_GAS826_00174	MSV_LLcentISS_00009	MSV_LLcentISS_00010	MSV_QC_Gas826_00164	MSV_V_BFB_00012
BFB 410-431955/1		8260D								1 uL
IC 410-431955/3		8260D						5 uL		
IC 410-431955/4		8260D						5 uL		
IC 410-431955/5		8260D						5 uL		
IC 410-431955/6		8260D						5 uL		
IC 410-431955/7		8260D						5 uL		
IC 410-431955/8		8260D						5 uL		
IC 410-431955/9		8260D						5 uL		
IC 410-431955/13		8260D			2 uL	2 uL	5 uL			
IC 410-431955/14		8260D			2 uL	2 uL	5 uL			
IC 410-431955/15		8260D			2 uL	2 uL	5 uL			
IC 410-431955/16		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.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-161790-1

SDG No.: _____

Batch Number: 431955 Batch Start Date: 10/17/23 03:41 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LL_#2_826 00108	MSV_LL_GAS826 00174	MSV_LLcentISS 00009	MSV_LLcentISS 00010	MSV_QC_Gas826 00164	MSV_V_BFB 00012
IC 410-431955/17		8260D			5 uL	5 uL	5 uL			
ICIS 410-431955/18		8260D			10 uL	10 uL	5 uL			
IC 410-431955/19		8260D			25 uL	25 uL	5 uL			
ICV 410-431955/21		8260D					5 uL		12.5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_SMRV4 00063					
BFB 410-431955/1		8260D								
IC 410-431955/3		8260D			1 uL					
IC 410-431955/4		8260D			2.5 uL					
IC 410-431955/5		8260D			5 uL					
IC 410-431955/6		8260D			5 uL					
IC 410-431955/7		8260D			5 uL					
IC 410-431955/8		8260D			5 uL					
IC 410-431955/9		8260D			12.5 uL					
IC 410-431955/13		8260D								
IC 410-431955/14		8260D								
IC 410-431955/15		8260D								
IC 410-431955/16		8260D								
IC 410-431955/17		8260D								
ICIS 410-431955/18		8260D								
IC 410-431955/19		8260D								
ICV 410-431955/21		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.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-161790-1

SDG No.: _____

Batch Number: 431955 Batch Start Date: 10/17/23 03:41 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-161790-1

SDG No.: _____

Batch Number: 452392 Batch Start Date: 12/11/23 17:07 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00007	MSV_29_826ISS 00052	MSV_CCV_CYC 00007
BFB 410-452392/1		8260D			1 uL	1 uL				
IC 410-452392/3		8260D			25 mL	25 mL	2711			1.6 uL
IC 410-452392/4		8260D			25 mL	25 mL	2711			4 uL
IC 410-452392/5		8260D			25 mL	25 mL	2711			8 uL
IC 410-452392/6		8260D			25 mL	25 mL	2711			8 uL
IC 410-452392/7		8260D			25 mL	25 mL	2711			8 uL
IC 410-452392/8		8260D			25 mL	25 mL	2711			8 uL
IC 410-452392/9		8260D			25 mL	25 mL	2711			20 uL
IC 410-452392/13		8260D			25 mL	25 mL	2711		1 uL	
IC 410-452392/14		8260D			25 mL	25 mL	2711		1 uL	
IC 410-452392/15		8260D			25 mL	25 mL	2711		1 uL	
IC 410-452392/16		8260D			25 mL	25 mL	2711		1 uL	
IC 410-452392/17		8260D			25 mL	25 mL	2711		1 uL	
ICIS 410-452392/18		8260D			25 mL	25 mL	2711		1 uL	
IC 410-452392/19		8260D			25 mL	25 mL	2711		1 uL	
ICV 410-452392/21		8260D			25 mL	25 mL		12.5 uL	1 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_V5ACE 00031	MSV_DME 00050	MSV_HP29_ISO 00004	MSV_LCS_ACROL 00144	MSV_LCS_EE 00008	MSV_LCS_Penta 00036
BFB 410-452392/1		8260D								
IC 410-452392/3		8260D			0.2 uL	0.2 uL	1 uL			
IC 410-452392/4		8260D			0.5 uL	0.5 uL	1 uL			
IC 410-452392/5		8260D			1 uL	1 uL	1 uL			
IC 410-452392/6		8260D			1 uL	1 uL	1 uL			
IC 410-452392/7		8260D			1 uL	1 uL	1 uL			
IC 410-452392/8		8260D			1 uL	1 uL	1 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-161790-1

SDG No.: _____

Batch Number: 452392 Batch Start Date: 12/11/23 17:07 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_V5ACE 00031	MSV_DME 00050	MSV_HP29_ISO 00004	MSV_LCS_ACROL 00144	MSV_LCS_EE 00008	MSV_LCS_Penta 00036
IC 410-452392/9		8260D			2.5 uL	2.5 uL	1 uL			
IC 410-452392/13		8260D								
IC 410-452392/14		8260D								
IC 410-452392/15		8260D								
IC 410-452392/16		8260D								
IC 410-452392/17		8260D								
ICIS 410-452392/18		8260D								
IC 410-452392/19		8260D								
ICV 410-452392/21		8260D						12.5 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_VOC#1 00143	MSV_LL_#1_826 00107	MSV_LL_#2_826 00117	MSV_LL_GAS826 00182	MSV_QC_Gas826 00173	MSV_V_BFB 00013
BFB 410-452392/1		8260D								1 uL
IC 410-452392/3		8260D								
IC 410-452392/4		8260D								
IC 410-452392/5		8260D								
IC 410-452392/6		8260D								
IC 410-452392/7		8260D								
IC 410-452392/8		8260D								
IC 410-452392/9		8260D								
IC 410-452392/13		8260D				2 uL	2 uL	2 uL		
IC 410-452392/14		8260D				2 uL	2 uL	2 uL		
IC 410-452392/15		8260D				2 uL	2 uL	2 uL		
IC 410-452392/16		8260D				2 uL	2 uL	2 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-161790-1

SDG No.: _____

Batch Number: 452392 Batch Start Date: 12/11/23 17:07 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_VOC#1 00143	MSV_LL #1_826 00107	MSV_LL #2_826 00117	MSV_LL_GAS826 00182	MSV_QC_Gas826 00173	MSV_V_BFB 00013
IC 410-452392/17		8260D				5 uL	5 uL	5 uL		
ICIS 410-452392/18		8260D				10 uL	10 uL	10 uL		
IC 410-452392/19		8260D				25 uL	25 uL	25 uL		
ICV 410-452392/21		8260D			12.5 uL				12.5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_SMRV4 00065					
BFB 410-452392/1		8260D								
IC 410-452392/3		8260D			1 uL					
IC 410-452392/4		8260D			2.5 uL					
IC 410-452392/5		8260D			5 uL					
IC 410-452392/6		8260D			5 uL					
IC 410-452392/7		8260D			5 uL					
IC 410-452392/8		8260D			5 uL					
IC 410-452392/9		8260D			12.5 uL					
IC 410-452392/13		8260D								
IC 410-452392/14		8260D								
IC 410-452392/15		8260D								
IC 410-452392/16		8260D								
IC 410-452392/17		8260D								
ICIS 410-452392/18		8260D								
IC 410-452392/19		8260D								
ICV 410-452392/21		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.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-161790-1

SDG No.: _____

Batch Number: 452392 Batch Start Date: 12/11/23 17:07 Batch Analyst: Kephart, KaylaBatch 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.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-161790-1

SDG No.: _____

Batch Number: 478015 Batch Start Date: 02/28/24 17:52 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCh eck	Headspace	Lot#Vial
BFB 410-478015/1		8260D			1 uL	1 uL				
CCVIS 410-478015/3		8260D			25 mL	25 mL				2731
LCS 410-478015/4		8260D			25 mL	25 mL				2731
LCSD 410-478015/5		8260D			25 mL	25 mL				2731
MB 410-478015/7		8260D			25 mL	25 mL				2731
410-161790-A-14	HD-QC1-0/1-2	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-161790-A-9	HD-COD-SW-26-0/ 1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-161790-A-10	HD-COD-SW-27-0/ 1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-161790-A-11	HD-COD-SW-28-0/ 1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-161790-A-12	HD-COD-SW-29-0/ 1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-161790-A-8	HD-COD-SW-17-0/ 1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-161790-B-8	HD-COD-SW-17-0/ 1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	2731
410-161790-A-13	HD-QC1-0/1-1	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-161790-B-13	HD-QC1-0/1-1	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	2731

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	LCS_ETBR 00007	MSV_LCS VOC#1 00155	MSV_LL #1_826 00118	MSV_LL #2_826 00127	MSV_LL GAS826 00195	MSV_LLcentISS 00012
BFB 410-478015/1		8260D								
CCVIS 410-478015/3		8260D					20 uL	20 uL	20 uL	5 uL
LCS 410-478015/4		8260D			12.5 uL	12.5 uL				5 uL
LCSD 410-478015/5		8260D			12.5 uL	12.5 uL				5 uL
MB 410-478015/7		8260D								5 uL
410-161790-A-14	HD-QC1-0/1-2	8260D	Water	T						5 uL
410-161790-A-9	HD-COD-SW-26-0/ 1-0	8260D	Water	T						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.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-161790-1

SDG No.: _____

Batch Number: 478015Batch Start Date: 02/28/24 17:52Batch Analyst: Walmer, GavinBatch Method: 8260D

Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	LCS_ETBR 00007	MSV_LCS_VOC#1 00155	MSV_LL_#1_826 00118	MSV_LL_#2_826 00127	MSV_LL_GAS826 00195	MSV_LLcentISS 00012
410-161790-A-10	HD-COD-SW-27-0/ 1-0	8260D	Water	T						5 uL
410-161790-A-11	HD-COD-SW-28-0/ 1-0	8260D	Water	T						5 uL
410-161790-A-12	HD-COD-SW-29-0/ 1-0	8260D	Water	T						5 uL
410-161790-A-8	HD-COD-SW-17-0/ 1-0	8260D	Water	T						5 uL
410-161790-B-8	HD-COD-SW-17-0/ 1-0	8260D	Water	T						5 uL
410-161790-A-13	HD-QC1-0/1-1	8260D	Water	T						5 uL
410-161790-B-13	HD-QC1-0/1-1	8260D	Water	T						5 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_QC_Gas826 00185	MSV_V_BFB 00016				
BFB 410-478015/1		8260D				1 uL				
CCVIS 410-478015/3		8260D								
LCS 410-478015/4		8260D			12.5 uL					
LCSD 410-478015/5		8260D			12.5 uL					
MB 410-478015/7		8260D								
410-161790-A-14	HD-QC1-0/1-2	8260D	Water	T						
410-161790-A-9	HD-COD-SW-26-0/ 1-0	8260D	Water	T						
410-161790-A-10	HD-COD-SW-27-0/ 1-0	8260D	Water	T						
410-161790-A-11	HD-COD-SW-28-0/ 1-0	8260D	Water	T						
410-161790-A-12	HD-COD-SW-29-0/ 1-0	8260D	Water	T						
410-161790-A-8	HD-COD-SW-17-0/ 1-0	8260D	Water	T						
410-161790-B-8	HD-COD-SW-17-0/ 1-0	8260D	Water	T						
410-161790-A-13	HD-QC1-0/1-1	8260D	Water	T						
410-161790-B-13	HD-QC1-0/1-1	8260D	Water	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 2 of 3

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-161790-1

SDG No.: _____

Batch Number: 478015 Batch Start Date: 02/28/24 17:52 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-161790-1

SDG No.: _____

Batch Number: 478337 Batch Start Date: 02/29/24 12:18 Batch Analyst: Mellinger, Corie MBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCh eck	Headspace	Lot#Vial
BFB 410-478337/1		8260D			1 uL	1 uL				
CCVIS 410-478337/3		8260D			25 mL	25 mL				2731
LCS 410-478337/5		8260D			25 mL	25 mL				2731
MB 410-478337/7		8260D			25 mL	25 mL				2731
410-161790-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-161790-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-161790-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-161790-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-161790-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-161790-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-161790-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-161790-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-161790-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	LCS_ETBR 00007	MSV_HP25_ISSS 00084	MSV_LCS_VOC#1 00155	MSV_LL_#1_826 00118	MSV_LL_#2_524 00077	MSV_LL_GAS826 00195
BFB 410-478337/1		8260D								
CCVIS 410-478337/3		8260D				1 uL		20 uL	20 uL	20 uL
LCS 410-478337/5		8260D			12.5 uL	1 uL	12.5 uL			
MB 410-478337/7		8260D				1 uL				
410-161790-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T		1 uL				
410-161790-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T		1 uL				
410-161790-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T		1 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 3

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-161790-1

SDG No.: _____

Batch Number: 478337 Batch Start Date: 02/29/24 12:18 Batch Analyst: Mellinger, Corie MBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	LCS_ETBR 00007	MSV_HP25_ISSS 00084	MSV_LCS_VOC#1 00155	MSV_LL #1_826 00118	MSV_LL #2_524 00077	MSV_LL GAS826 00195
410-161790-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T		1 uL				
410-161790-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T		1 uL				
410-161790-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T		1 uL				
410-161790-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T		1 uL	5.38 uL			
410-161790-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T		1 uL	5.38 uL			
410-161790-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T		1 uL				

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_QC_GAS524 00154	MSV_V_BFB 00016				
BFB 410-478337/1		8260D				1 uL				
CCVIS 410-478337/3		8260D								
LCS 410-478337/5		8260D			12.5 uL					
MB 410-478337/7		8260D								
410-161790-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T						
410-161790-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T						
410-161790-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T						
410-161790-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T						
410-161790-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T						
410-161790-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T						
410-161790-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T	5.38 uL					
410-161790-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T	5.38 uL					
410-161790-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 2 of 3

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-161790-1

SDG No.: _____

Batch Number: 478337 Batch Start Date: 02/29/24 12:18 Batch Analyst: Mellinger, Corie MBatch 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.

8260D

Page 3 of 3

Shipping and Receiving Documents



Sample # _____

Client: Groundwater Sciences Corporation				Matrix			Analyses Requested										For Lab Use Only								
Project Name/#: FYNOP Monthly Surface Water				Site ID #: FYNOP, York PA				Preservation Codes										SF #: _____							
Project Manager: Chris O'Neil				P.O. #: 10012.52														SCR #: _____							
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		Grab	Composite	☐ Soil ☐ Sediment ☐ Tissue	☐ Potable ☐ Ground ☐ Surface	☐ Water ☐ NPDES	Other:	Total # of Containers	Aqueous VOCs via 8260D (low level - 25 ml purge)											Preservation Codes			
		Date	Time																			H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other			
HD-COD-SW-6-0/1-0		2/23/24	1103	X							3	X												All samples preserved on ice	
HD-COD-SW-7-0/1-0			1140	X							3	X													
HD-COD-SW-8-0/1-0			0959	X							3	X													
HD-COD-SW-9-0/1-0			1255	X							3	X													
HD-COD-SW-13-0/1-0			1015	X							3	X													
HD-COD-SW-15-0/1-0			1159	X							3	X													
HD-COD-SW-15-0/1-0 MS			1159	X							3	X													
HD-COD-SW-15-0/1-0 MSD			1159	X							3	X													
HD-COD-SW-16-0/1-0			1037	X							3	X													
HD-COD-SW-17-0/1-0			1045	X							3	X													
Turnaround Time Requested (TAT) (please check): Standard ☒ Rush ☐ (Rush TAT is subject to laboratory approval and surcharges.)				Relinquished by: <i>[Signature]</i>				Date: 2/23/2024		Time: 1350		Received by: <i>[Signature]</i>				Date: 2/23/24		Time: 1350							
Date results are needed: STANDARD				Relinquished by: <i>[Signature]</i>				Date: 2/23/24		Time: 1600		Received by: <i>[Signature]</i>				Date:		Time:							
Rush results requested by (please check): E-Mail ☒ Phone ☐				Relinquished by: <i>[Signature]</i>				Date:		Time:		Received by: <i>[Signature]</i>				Date:		Time:							
E-mail Address: ON-FILE				Relinquished by: <i>[Signature]</i>				Date:		Time:		Received by: <i>[Signature]</i>				Date:		Time:							
Phone:				Relinquished by: <i>[Signature]</i>				Date:		Time:		Received by: <i>[Signature]</i>				Date:		Time:							
Data Package Options (please check if required)				Relinquished by: <i>[Signature]</i>				Date:		Time:		Received by: <i>[Signature]</i>				Date:		Time:							
Type I (Validation/non-CLP) ☐ MA MCP ☐				Relinquished by: <i>[Signature]</i>				Date:		Time:		Received by: <i>[Signature]</i>				Date:		Time:							
Type III (Reduced non-CLP) ☐ CT RCP ☐				Relinquished by: <i>[Signature]</i>				Date:		Time:		Received by: <i>[Signature]</i>				Date:		Time:							
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐				Relinquished by: <i>[Signature]</i>				Date:		Time:		Received by: <i>[Signature]</i>				Date:		Time:							
NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B				Relinquished by: <i>[Signature]</i>				Date:		Time:		Received by: <i>[Signature]</i>				Date:		Time:							
EDD Required? Yes ☒ No ☐ If yes, format: _____				CLP Like Deliverables, Project Specific Analyte List				Relinquished by Commercial Carrier: _____				Temperature upon receipt _____ °C													
UPS _____ FedEx ☒ Other _____																									

370472

Environmental Analysis Request/Chain of Custody



HARRISBURG PA

**Lancaster Laboratories
Environmental**

Acct. # _____ Group # _____ Sample # _____

[illegible]

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-161790-1

Login Number: 161790

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Santiago, Nathaniel

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.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	