



ANALYTICAL REPORT

PREPARED FOR

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

Generated 07/08/2024

JOB DESCRIPTION

fYNOP - TI Area 1 Quarterly Sampling

JOB NUMBER

410-177863-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

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

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

Authorization



Generated
07/08/2024

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

Table of Contents

Cover Page	1
Data Summaries	4
Definitions	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Default Detection Limits	14
Surrogate Summary	15
QC Sample Results	16
QC Association	18
Chronicle	19
Certification Summary	20
Method Summary	21
Sample Summary	22
Manual Integration Summary	23
Reagent Traceability	30
COAs	50
Organic Sample Data	157
GC/MS VOA	157
Method 8260D	157
Method 8260D QC Summary	158
Method 8260D Sample Data	167
Standards Data	232
Method 8260D ICAL Data	232
Method 8260D CCAL Data	485
Raw QC Data	505
Method 8260D Tune Data	505
Method 8260D Blank Data	515
Method 8260D LCS/LCSD Data	525
Method 8260D Run Logs	532
Method 8260D Prep Data	535
Shipping and Receiving Documents	542
Client Chain of Custody	543
Sample Receipt Checklist	544

Definitions/Glossary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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
410-177863-1

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 6/27/2024 2:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

Receipt Exceptions

A trip blank was received in the cooler/package, but not entered with this job. The Trip blank logged in and reported with job number 410-177855.

The Chain-of-Custody (COC) was incomplete as received. The COC is missing Sample State, Sample Collector Name and Sample Type (Grab or Composite). This does not meet regulatory requirements.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-525333 recovered above the upper control limit for Acetone. 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.

Laura Branch

From: Casey Littlefield <clittlefield@groundwatersciences.com>
Sent: Monday, July 1, 2024 2:14 PM
To: Laura Branch
Subject: RE: 410-177863 fYNOP - TI Area 1 Quarterly Sampling Sample Confirmation files from Eurofins Lancaster

You don't often get email from clittlefield@groundwatersciences.com. [Learn why this is important](#)

Unverified Sender: The sender of this email has not been verified. Review the content of the message carefully and verify the identity of the sender before acting on this email: replying, opening attachments or clicking links.

Laura,
Gotcha.
That would be Pennsylvania.
Thanks,
Casey

From: Laura Branch <Laura.Branch@et.eurofinsus.com>
Sent: Monday, July 1, 2024 2:11 PM
To: Casey Littlefield <clittlefield@groundwatersciences.com>
Subject: RE: 410-177863 fYNOP - TI Area 1 Quarterly Sampling Sample Confirmation files from Eurofins Lancaster

Hi Casey,

Thank you for your prompt response.

The sample state I am looking for is the state in which the sample was collected (ex: Pennsylvania)

Best,
Laura Branch
Associate Project Manager

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

Direct: (717) 556-7383

Laura.Branch@ET.Eurofinsus.com

From: Casey Littlefield <clittlefield@groundwatersciences.com>
Sent: Monday, July 1, 2024 1:52 PM
To: Laura Branch <Laura.Branch@et.eurofinsus.com>
Subject: RE: 410-177863 fYNOP - TI Area 1 Quarterly Sampling Sample Confirmation files from Eurofins Lancaster

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Unverified Sender: The sender of this email has not been verified. Review the content of the message carefully and verify the identity of the sender before acting on this email: replying, opening attachments or clicking links.

Laura,

For the comment "The Chain-of-Custody (COC) was incomplete as received." I have addressed below in red.

Thanks,

Casey

From: Laura Branch <TALS@reports.et.eurofinsus.com>

Sent: Monday, July 1, 2024 1:21 PM

To: Casey Littlefield <clittlefield@groundwatersciences.com>; Chris O'Neil <coneil@groundwatersciences.com>; Charles Rine <crine@groundwatersciences.com>

Subject: 410-177863 fYNOP - TI Area 1 Quarterly Sampling Sample Confirmation files from Eurofins Lancaster

Hello,

Attached, please find the Sample Confirmation files for job 410-177863; fYNOP - TI Area 1 Quarterly Sampling

The samples were received on 6/27/2024 2:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

Receipt Exceptions:

A trip blank was received in the cooler/package, but not entered with this job - Trip blank logged in and reported with job number 410-177855.

The Chain-of-Custody (COC) was incomplete as received. The COC is missing Sample State **Groundwater**, Sample Collector Name **Casey Littlefield / Lucas Grimm** and Sample Type **Grab** (Grab or Composite). This does not meet regulatory requirements.

Please review the attachments for accuracy and notify your Project Manager of any discrepancies as quickly as possible.

Any discrepancies not communicated in a timely fashion could result in missed holding times, TAT delays and may potentially incur additional charges.

Please feel free to contact me or your PM, Kelly Gallagher, if you have any questions.

Thank you.

Laura Branch

Project Manager Assistant

Eurofins Lancaster Laboratories Environment Testing, LLC

Phone: 717-556-7383

E-mail: laura.branch@et.eurofinsus.com
www.eurofinsus.com/env



Reference: [410-1060399]
Attachments: 2

> > PRIVILEGED AND CONFIDENTIAL < <

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Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

Client Sample ID: HD-QC1-0/1-4

Lab Sample ID: 410-177863-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.6	J ^c cn	20	0.70	ug/L	1		8260D	Total/NA
Toluene	0.46	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-QC1-0/1-3

Lab Sample ID: 410-177863-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.0	J ^c cn	20	0.70	ug/L	1		8260D	Total/NA
Toluene	0.43	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-88-0/1-0

Lab Sample ID: 410-177863-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.67	J	1.0	0.30	ug/L	1		8260D	Total/NA
Tetrachloroethene	10		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	1.2		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-101S-0/1-0

Lab Sample ID: 410-177863-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.46	J	1.0	0.30	ug/L	1		8260D	Total/NA
Tetrachloroethene	2.7		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	0.52	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-101D-0/1-0

Lab Sample ID: 410-177863-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.1		1.0	0.30	ug/L	1		8260D	Total/NA
Tetrachloroethene	4.1		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	3.9		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-6-0/1-0

Lab Sample ID: 410-177863-6

No Detections.

Client Sample ID: HD-MW-5-0/1-0

Lab Sample ID: 410-177863-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.5		1.0	0.30	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

Client Sample ID: HD-QC1-0/1-4

Lab Sample ID: 410-177863-1

Date Collected: 06/25/24 14:00

Matrix: Water

Date Received: 06/27/24 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/07/24 22:42	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/07/24 22:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/07/24 22:42	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/07/24 22:42	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/07/24 22:42	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/07/24 22:42	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			07/07/24 22:42	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/07/24 22:42	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/07/24 22:42	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/07/24 22:42	1
2-Hexanone	ND		10	0.85	ug/L			07/07/24 22:42	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/07/24 22:42	1
Acetone	2.6	J ^c cn	20	0.70	ug/L			07/07/24 22:42	1
Benzene	ND		1.0	0.30	ug/L			07/07/24 22:42	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/07/24 22:42	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/07/24 22:42	1
Bromoform	ND		4.0	1.0	ug/L			07/07/24 22:42	1
Bromomethane	ND		1.0	0.30	ug/L			07/07/24 22:42	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/07/24 22:42	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/07/24 22:42	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/07/24 22:42	1
Chloroethane	ND		1.0	0.30	ug/L			07/07/24 22:42	1
Chloroform	ND		1.0	0.30	ug/L			07/07/24 22:42	1
Chloromethane	ND		2.0	0.55	ug/L			07/07/24 22:42	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/07/24 22:42	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/07/24 22:42	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/07/24 22:42	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/07/24 22:42	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/07/24 22:42	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/07/24 22:42	1
Styrene	ND		5.0	0.30	ug/L			07/07/24 22:42	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/07/24 22:42	1
Toluene	0.46	J	1.0	0.30	ug/L			07/07/24 22:42	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/07/24 22:42	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/07/24 22:42	1
Trichloroethene	ND		1.0	0.30	ug/L			07/07/24 22:42	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/07/24 22:42	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/07/24 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		07/07/24 22:42	1
4-Bromofluorobenzene (Surr)	94		80 - 120		07/07/24 22:42	1
Dibromofluoromethane (Surr)	109		80 - 120		07/07/24 22:42	1
Toluene-d8 (Surr)	98		80 - 120		07/07/24 22:42	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

Client Sample ID: HD-QC1-0/1-3

Lab Sample ID: 410-177863-2

Date Collected: 06/25/24 14:05

Matrix: Water

Date Received: 06/27/24 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/07/24 23:04	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/07/24 23:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/07/24 23:04	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/07/24 23:04	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/07/24 23:04	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/07/24 23:04	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			07/07/24 23:04	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/07/24 23:04	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/07/24 23:04	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/07/24 23:04	1
2-Hexanone	ND		10	0.85	ug/L			07/07/24 23:04	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/07/24 23:04	1
Acetone	2.0	J ^c cn	20	0.70	ug/L			07/07/24 23:04	1
Benzene	ND		1.0	0.30	ug/L			07/07/24 23:04	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/07/24 23:04	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/07/24 23:04	1
Bromoform	ND		4.0	1.0	ug/L			07/07/24 23:04	1
Bromomethane	ND		1.0	0.30	ug/L			07/07/24 23:04	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/07/24 23:04	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/07/24 23:04	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/07/24 23:04	1
Chloroethane	ND		1.0	0.30	ug/L			07/07/24 23:04	1
Chloroform	ND		1.0	0.30	ug/L			07/07/24 23:04	1
Chloromethane	ND		2.0	0.55	ug/L			07/07/24 23:04	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/07/24 23:04	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/07/24 23:04	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/07/24 23:04	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/07/24 23:04	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/07/24 23:04	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/07/24 23:04	1
Styrene	ND		5.0	0.30	ug/L			07/07/24 23:04	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/07/24 23:04	1
Toluene	0.43	J	1.0	0.30	ug/L			07/07/24 23:04	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/07/24 23:04	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/07/24 23:04	1
Trichloroethene	ND		1.0	0.30	ug/L			07/07/24 23:04	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/07/24 23:04	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/07/24 23:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		80 - 120					07/07/24 23:04	1
4-Bromofluorobenzene (Surr)	102		80 - 120					07/07/24 23:04	1
Dibromofluoromethane (Surr)	113		80 - 120					07/07/24 23:04	1
Toluene-d8 (Surr)	101		80 - 120					07/07/24 23:04	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

Client Sample ID: HD-MW-88-0/1-0

Lab Sample ID: 410-177863-3

Date Collected: 06/25/24 13:35

Matrix: Water

Date Received: 06/27/24 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/08/24 00:31	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/08/24 00:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/08/24 00:31	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/08/24 00:31	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/08/24 00:31	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/08/24 00:31	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			07/08/24 00:31	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/08/24 00:31	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/08/24 00:31	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/08/24 00:31	1
2-Hexanone	ND		10	0.85	ug/L			07/08/24 00:31	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/08/24 00:31	1
Acetone	ND	^c cn	20	0.70	ug/L			07/08/24 00:31	1
Benzene	ND		1.0	0.30	ug/L			07/08/24 00:31	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/08/24 00:31	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/08/24 00:31	1
Bromoform	ND		4.0	1.0	ug/L			07/08/24 00:31	1
Bromomethane	ND		1.0	0.30	ug/L			07/08/24 00:31	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/08/24 00:31	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/08/24 00:31	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/08/24 00:31	1
Chloroethane	ND		1.0	0.30	ug/L			07/08/24 00:31	1
Chloroform	ND		1.0	0.30	ug/L			07/08/24 00:31	1
Chloromethane	ND		2.0	0.55	ug/L			07/08/24 00:31	1
cis-1,2-Dichloroethene	0.67	J	1.0	0.30	ug/L			07/08/24 00:31	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/08/24 00:31	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/08/24 00:31	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/08/24 00:31	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/08/24 00:31	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/08/24 00:31	1
Styrene	ND		5.0	0.30	ug/L			07/08/24 00:31	1
Tetrachloroethene	10		1.0	0.30	ug/L			07/08/24 00:31	1
Toluene	ND		1.0	0.30	ug/L			07/08/24 00:31	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/08/24 00:31	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/08/24 00:31	1
Trichloroethene	1.2		1.0	0.30	ug/L			07/08/24 00:31	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/08/24 00:31	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/08/24 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		80 - 120		07/08/24 00:31	1
4-Bromofluorobenzene (Surr)	95		80 - 120		07/08/24 00:31	1
Dibromofluoromethane (Surr)	114		80 - 120		07/08/24 00:31	1
Toluene-d8 (Surr)	97		80 - 120		07/08/24 00:31	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

Client Sample ID: HD-MW-101S-0/1-0

Lab Sample ID: 410-177863-4

Date Collected: 06/25/24 11:12

Matrix: Water

Date Received: 06/27/24 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/08/24 00:53	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/08/24 00:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/08/24 00:53	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/08/24 00:53	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/08/24 00:53	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/08/24 00:53	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			07/08/24 00:53	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/08/24 00:53	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/08/24 00:53	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/08/24 00:53	1
2-Hexanone	ND		10	0.85	ug/L			07/08/24 00:53	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/08/24 00:53	1
Acetone	ND	^c cn	20	0.70	ug/L			07/08/24 00:53	1
Benzene	ND		1.0	0.30	ug/L			07/08/24 00:53	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/08/24 00:53	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/08/24 00:53	1
Bromoform	ND		4.0	1.0	ug/L			07/08/24 00:53	1
Bromomethane	ND		1.0	0.30	ug/L			07/08/24 00:53	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/08/24 00:53	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/08/24 00:53	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/08/24 00:53	1
Chloroethane	ND		1.0	0.30	ug/L			07/08/24 00:53	1
Chloroform	ND		1.0	0.30	ug/L			07/08/24 00:53	1
Chloromethane	ND		2.0	0.55	ug/L			07/08/24 00:53	1
cis-1,2-Dichloroethene	0.46	J	1.0	0.30	ug/L			07/08/24 00:53	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/08/24 00:53	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/08/24 00:53	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/08/24 00:53	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/08/24 00:53	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/08/24 00:53	1
Styrene	ND		5.0	0.30	ug/L			07/08/24 00:53	1
Tetrachloroethene	2.7		1.0	0.30	ug/L			07/08/24 00:53	1
Toluene	ND		1.0	0.30	ug/L			07/08/24 00:53	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/08/24 00:53	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/08/24 00:53	1
Trichloroethene	0.52	J	1.0	0.30	ug/L			07/08/24 00:53	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/08/24 00:53	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/08/24 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		80 - 120		07/08/24 00:53	1
4-Bromofluorobenzene (Surr)	91		80 - 120		07/08/24 00:53	1
Dibromofluoromethane (Surr)	114		80 - 120		07/08/24 00:53	1
Toluene-d8 (Surr)	94		80 - 120		07/08/24 00:53	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

Client Sample ID: HD-MW-101D-0/1-0

Lab Sample ID: 410-177863-5

Date Collected: 06/25/24 09:50

Matrix: Water

Date Received: 06/27/24 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/08/24 01:15	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/08/24 01:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/08/24 01:15	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/08/24 01:15	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/08/24 01:15	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/08/24 01:15	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			07/08/24 01:15	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/08/24 01:15	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/08/24 01:15	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/08/24 01:15	1
2-Hexanone	ND		10	0.85	ug/L			07/08/24 01:15	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/08/24 01:15	1
Acetone	ND	^c cn	20	0.70	ug/L			07/08/24 01:15	1
Benzene	ND		1.0	0.30	ug/L			07/08/24 01:15	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/08/24 01:15	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/08/24 01:15	1
Bromoform	ND		4.0	1.0	ug/L			07/08/24 01:15	1
Bromomethane	ND		1.0	0.30	ug/L			07/08/24 01:15	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/08/24 01:15	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/08/24 01:15	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/08/24 01:15	1
Chloroethane	ND		1.0	0.30	ug/L			07/08/24 01:15	1
Chloroform	ND		1.0	0.30	ug/L			07/08/24 01:15	1
Chloromethane	ND		2.0	0.55	ug/L			07/08/24 01:15	1
cis-1,2-Dichloroethene	8.1		1.0	0.30	ug/L			07/08/24 01:15	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/08/24 01:15	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/08/24 01:15	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/08/24 01:15	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/08/24 01:15	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/08/24 01:15	1
Styrene	ND		5.0	0.30	ug/L			07/08/24 01:15	1
Tetrachloroethene	4.1		1.0	0.30	ug/L			07/08/24 01:15	1
Toluene	ND		1.0	0.30	ug/L			07/08/24 01:15	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/08/24 01:15	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/08/24 01:15	1
Trichloroethene	3.9		1.0	0.30	ug/L			07/08/24 01:15	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/08/24 01:15	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/08/24 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		07/08/24 01:15	1
4-Bromofluorobenzene (Surr)	101		80 - 120		07/08/24 01:15	1
Dibromofluoromethane (Surr)	113		80 - 120		07/08/24 01:15	1
Toluene-d8 (Surr)	100		80 - 120		07/08/24 01:15	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

Client Sample ID: HD-MW-6-0/1-0

Lab Sample ID: 410-177863-6

Date Collected: 06/25/24 13:00

Matrix: Water

Date Received: 06/27/24 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/08/24 01:37	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/08/24 01:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/08/24 01:37	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/08/24 01:37	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/08/24 01:37	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/08/24 01:37	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			07/08/24 01:37	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/08/24 01:37	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/08/24 01:37	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/08/24 01:37	1
2-Hexanone	ND		10	0.85	ug/L			07/08/24 01:37	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/08/24 01:37	1
Acetone	ND	^c cn	20	0.70	ug/L			07/08/24 01:37	1
Benzene	ND		1.0	0.30	ug/L			07/08/24 01:37	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/08/24 01:37	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/08/24 01:37	1
Bromoform	ND		4.0	1.0	ug/L			07/08/24 01:37	1
Bromomethane	ND		1.0	0.30	ug/L			07/08/24 01:37	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/08/24 01:37	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/08/24 01:37	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/08/24 01:37	1
Chloroethane	ND		1.0	0.30	ug/L			07/08/24 01:37	1
Chloroform	ND		1.0	0.30	ug/L			07/08/24 01:37	1
Chloromethane	ND		2.0	0.55	ug/L			07/08/24 01:37	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/08/24 01:37	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/08/24 01:37	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/08/24 01:37	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/08/24 01:37	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/08/24 01:37	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/08/24 01:37	1
Styrene	ND		5.0	0.30	ug/L			07/08/24 01:37	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/08/24 01:37	1
Toluene	ND		1.0	0.30	ug/L			07/08/24 01:37	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/08/24 01:37	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/08/24 01:37	1
Trichloroethene	ND		1.0	0.30	ug/L			07/08/24 01:37	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/08/24 01:37	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/08/24 01:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		07/08/24 01:37	1
4-Bromofluorobenzene (Surr)	99		80 - 120		07/08/24 01:37	1
Dibromofluoromethane (Surr)	105		80 - 120		07/08/24 01:37	1
Toluene-d8 (Surr)	100		80 - 120		07/08/24 01:37	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

Client Sample ID: HD-MW-5-0/1-0

Lab Sample ID: 410-177863-7

Date Collected: 06/25/24 13:58

Matrix: Water

Date Received: 06/27/24 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/08/24 01:59	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/08/24 01:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/08/24 01:59	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/08/24 01:59	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/08/24 01:59	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/08/24 01:59	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			07/08/24 01:59	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/08/24 01:59	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/08/24 01:59	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/08/24 01:59	1
2-Hexanone	ND		10	0.85	ug/L			07/08/24 01:59	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/08/24 01:59	1
Acetone	ND	^c cn	20	0.70	ug/L			07/08/24 01:59	1
Benzene	ND		1.0	0.30	ug/L			07/08/24 01:59	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/08/24 01:59	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/08/24 01:59	1
Bromoform	ND		4.0	1.0	ug/L			07/08/24 01:59	1
Bromomethane	ND		1.0	0.30	ug/L			07/08/24 01:59	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/08/24 01:59	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/08/24 01:59	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/08/24 01:59	1
Chloroethane	ND		1.0	0.30	ug/L			07/08/24 01:59	1
Chloroform	ND		1.0	0.30	ug/L			07/08/24 01:59	1
Chloromethane	ND		2.0	0.55	ug/L			07/08/24 01:59	1
cis-1,2-Dichloroethene	2.5		1.0	0.30	ug/L			07/08/24 01:59	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/08/24 01:59	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/08/24 01:59	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/08/24 01:59	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/08/24 01:59	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/08/24 01:59	1
Styrene	ND		5.0	0.30	ug/L			07/08/24 01:59	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/08/24 01:59	1
Toluene	ND		1.0	0.30	ug/L			07/08/24 01:59	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/08/24 01:59	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/08/24 01:59	1
Trichloroethene	ND		1.0	0.30	ug/L			07/08/24 01:59	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/08/24 01:59	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/08/24 01:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		80 - 120		07/08/24 01:59	1
4-Bromofluorobenzene (Surr)	94		80 - 120		07/08/24 01:59	1
Dibromofluoromethane (Surr)	115		80 - 120		07/08/24 01:59	1
Toluene-d8 (Surr)	93		80 - 120		07/08/24 01:59	1

Default Detection Limits

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

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

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

Surrogate Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

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)
410-177863-1	HD-QC1-0/1-4	105	94	109	98
410-177863-2	HD-QC1-0/1-3	110	102	113	101
410-177863-3	HD-MW-88-0/1-0	111	95	114	97
410-177863-4	HD-MW-101S-0/1-0	112	91	114	94
410-177863-5	HD-MW-101D-0/1-0	105	101	113	100
410-177863-6	HD-MW-6-0/1-0	102	99	105	100
410-177863-7	HD-MW-5-0/1-0	112	94	115	93
LCS 410-525333/4	Lab Control Sample	103	98	106	100
MB 410-525333/6	Method Blank	108	97	111	96

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 - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

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

Lab Sample ID: MB 410-525333/6

Matrix: Water

Analysis Batch: 525333

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/07/24 21:15	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/07/24 21:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/07/24 21:15	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/07/24 21:15	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/07/24 21:15	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/07/24 21:15	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			07/07/24 21:15	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/07/24 21:15	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/07/24 21:15	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/07/24 21:15	1
2-Hexanone	ND		10	0.85	ug/L			07/07/24 21:15	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/07/24 21:15	1
Acetone	ND		20	0.70	ug/L			07/07/24 21:15	1
Benzene	ND		1.0	0.30	ug/L			07/07/24 21:15	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/07/24 21:15	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/07/24 21:15	1
Bromoform	ND		4.0	1.0	ug/L			07/07/24 21:15	1
Bromomethane	ND		1.0	0.30	ug/L			07/07/24 21:15	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/07/24 21:15	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/07/24 21:15	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/07/24 21:15	1
Chloroethane	ND		1.0	0.30	ug/L			07/07/24 21:15	1
Chloroform	ND		1.0	0.30	ug/L			07/07/24 21:15	1
Chloromethane	ND		2.0	0.55	ug/L			07/07/24 21:15	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/07/24 21:15	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/07/24 21:15	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/07/24 21:15	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/07/24 21:15	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/07/24 21:15	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/07/24 21:15	1
Styrene	ND		5.0	0.30	ug/L			07/07/24 21:15	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/07/24 21:15	1
Toluene	ND		1.0	0.30	ug/L			07/07/24 21:15	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/07/24 21:15	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/07/24 21:15	1
Trichloroethene	ND		1.0	0.30	ug/L			07/07/24 21:15	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/07/24 21:15	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/07/24 21:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		07/07/24 21:15	1
4-Bromofluorobenzene (Surr)	97		80 - 120		07/07/24 21:15	1
Dibromofluoromethane (Surr)	111		80 - 120		07/07/24 21:15	1
Toluene-d8 (Surr)	96		80 - 120		07/07/24 21:15	1

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

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

Lab Sample ID: LCS 410-525333/4

Matrix: Water

Analysis Batch: 525333

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.0		ug/L		95	79 - 120
1,1,1-Trichloroethane	20.0	18.5		ug/L		93	73 - 120
1,1,2,2-Tetrachloroethane	20.0	19.3		ug/L		96	72 - 120
1,1,2-Trichloroethane	20.0	19.3		ug/L		96	80 - 120
1,1-Dichloroethane	20.0	19.5		ug/L		97	80 - 120
1,1-Dichloroethene	20.0	18.6		ug/L		93	80 - 131
1,2-Dibromoethane (EDB)	20.0	19.0		ug/L		95	77 - 120
1,2-Dichloroethane	20.0	18.9		ug/L		95	73 - 124
1,2-Dichloropropane	20.0	18.2		ug/L		91	80 - 120
2-Butanone (MEK)	250	225		ug/L		90	59 - 135
2-Hexanone	250	250		ug/L		100	56 - 135
4-Methyl-2-pentanone (MIBK)	250	255		ug/L		102	62 - 133
Acetone	250	319		ug/L		128	57 - 143
Benzene	20.0	18.7		ug/L		93	80 - 120
Bromochloromethane	20.0	20.6		ug/L		103	80 - 120
Bromodichloromethane	20.0	18.1		ug/L		91	71 - 120
Bromoform	20.0	18.5		ug/L		92	51 - 120
Bromomethane	20.0	15.8		ug/L		79	53 - 128
Carbon disulfide	20.0	16.6		ug/L		83	65 - 128
Carbon tetrachloride	20.0	17.9		ug/L		90	64 - 134
Chlorobenzene	20.0	18.8		ug/L		94	80 - 120
Chloroethane	20.0	17.8		ug/L		89	55 - 123
Chloroform	20.0	18.8		ug/L		94	80 - 120
Chloromethane	20.0	13.9		ug/L		69	39 - 134
cis-1,2-Dichloroethene	20.0	19.3		ug/L		96	80 - 125
cis-1,3-Dichloropropene	20.0	16.0		ug/L		80	75 - 120
Dibromochloromethane	20.0	19.1		ug/L		95	71 - 120
Ethylbenzene	20.0	17.7		ug/L		89	80 - 120
Methyl tert-butyl ether	20.0	17.0		ug/L		85	69 - 122
Methylene Chloride	20.0	18.8		ug/L		94	80 - 120
Styrene	20.0	17.3		ug/L		86	80 - 120
Tetrachloroethene	20.0	18.1		ug/L		90	80 - 120
Toluene	20.0	18.5		ug/L		93	80 - 120
trans-1,2-Dichloroethene	20.0	20.7		ug/L		104	80 - 126
trans-1,3-Dichloropropene	20.0	16.8		ug/L		84	67 - 120
Trichloroethene	20.0	17.6		ug/L		88	80 - 120
Vinyl chloride	20.0	13.5		ug/L		67	56 - 120
Xylenes, Total	60.0	53.1		ug/L		89	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	106		80 - 120
Toluene-d8 (Surr)	100		80 - 120

QC Association Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

GC/MS VOA

Analysis Batch: 525333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-177863-1	HD-QC1-0/1-4	Total/NA	Water	8260D	
410-177863-2	HD-QC1-0/1-3	Total/NA	Water	8260D	
410-177863-3	HD-MW-88-0/1-0	Total/NA	Water	8260D	
410-177863-4	HD-MW-101S-0/1-0	Total/NA	Water	8260D	
410-177863-5	HD-MW-101D-0/1-0	Total/NA	Water	8260D	
410-177863-6	HD-MW-6-0/1-0	Total/NA	Water	8260D	
410-177863-7	HD-MW-5-0/1-0	Total/NA	Water	8260D	
MB 410-525333/6	Method Blank	Total/NA	Water	8260D	
LCS 410-525333/4	Lab Control Sample	Total/NA	Water	8260D	

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

Client Sample ID: HD-QC1-0/1-4

Lab Sample ID: 410-177863-1

Date Collected: 06/25/24 14:00

Matrix: Water

Date Received: 06/27/24 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	525333	JS6E	ELLE	07/07/24 22:42

Client Sample ID: HD-QC1-0/1-3

Lab Sample ID: 410-177863-2

Date Collected: 06/25/24 14:05

Matrix: Water

Date Received: 06/27/24 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	525333	JS6E	ELLE	07/07/24 23:04

Client Sample ID: HD-MW-88-0/1-0

Lab Sample ID: 410-177863-3

Date Collected: 06/25/24 13:35

Matrix: Water

Date Received: 06/27/24 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	525333	JS6E	ELLE	07/08/24 00:31

Client Sample ID: HD-MW-101S-0/1-0

Lab Sample ID: 410-177863-4

Date Collected: 06/25/24 11:12

Matrix: Water

Date Received: 06/27/24 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	525333	JS6E	ELLE	07/08/24 00:53

Client Sample ID: HD-MW-101D-0/1-0

Lab Sample ID: 410-177863-5

Date Collected: 06/25/24 09:50

Matrix: Water

Date Received: 06/27/24 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	525333	JS6E	ELLE	07/08/24 01:15

Client Sample ID: HD-MW-6-0/1-0

Lab Sample ID: 410-177863-6

Date Collected: 06/25/24 13:00

Matrix: Water

Date Received: 06/27/24 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	525333	JS6E	ELLE	07/08/24 01:37

Client Sample ID: HD-MW-5-0/1-0

Lab Sample ID: 410-177863-7

Date Collected: 06/25/24 13:58

Matrix: Water

Date Received: 06/27/24 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	525333	JS6E	ELLE	07/08/24 01:59

Laboratory References:

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

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

Method Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

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 - TI Area 1 Quarterly Sampling

Job ID: 410-177863-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-177863-1	HD-QC1-0/1-4	Water	06/25/24 14:00	06/27/24 14:53
410-177863-2	HD-QC1-0/1-3	Water	06/25/24 14:05	06/27/24 14:53
410-177863-3	HD-MW-88-0/1-0	Water	06/25/24 13:35	06/27/24 14:53
410-177863-4	HD-MW-101S-0/1-0	Water	06/25/24 11:12	06/27/24 14:53
410-177863-5	HD-MW-101D-0/1-0	Water	06/25/24 09:50	06/27/24 14:53
410-177863-6	HD-MW-6-0/1-0	Water	06/25/24 13:00	06/27/24 14:53
410-177863-7	HD-MW-5-0/1-0	Water	06/25/24 13:58	06/27/24 14:53

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Instrument ID: 9137

Analysis Batch Number: 513039

Lab Sample ID: IC 410-513039/3

Client Sample ID:

Date Analyzed: 06/03/24 17:42

Lab File ID: WU03X02.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	4.18	Incomplete Integration	K4WN	06/03/24 20:23
cis-1,4-Dichloro-2-butene	12.25	Incomplete Integration	K4WN	06/03/24 20:22

Lab Sample ID: IC 410-513039/4

Client Sample ID:

Date Analyzed: 06/03/24 18:04

Lab File ID: WU03X03.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	4.18	Incomplete Integration	K4WN	06/03/24 20:23
t-Butyl alcohol-d10 (IS)	4.44	Incomplete Integration	K4WN	06/03/24 20:24
cis-1,4-Dichloro-2-butene	12.25	Incomplete Integration	K4WN	06/03/24 20:24

Lab Sample ID: IC 410-513039/5

Client Sample ID:

Date Analyzed: 06/03/24 18:26

Lab File ID: WU03X04.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	4.17	Incomplete Integration	K4WN	06/03/24 20:25
cis-1,4-Dichloro-2-butene	12.25	Incomplete Integration	K4WN	06/03/24 20:25

Lab Sample ID: IC 410-513039/6

Client Sample ID:

Date Analyzed: 06/03/24 18:48

Lab File ID: WU03X05.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	4.17	Incomplete Integration	K4WN	06/03/24 20:26
cis-1,4-Dichloro-2-butene	12.25	Incomplete Integration	K4WN	06/03/24 20:26

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Instrument ID: 9137

Analysis Batch Number: 513039

Lab Sample ID: IC 410-513039/7

Client Sample ID:

Date Analyzed: 06/03/24 19:10

Lab File ID: WU03X06.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	4.17	Incomplete Integration	K4WN	06/03/24 20:27
cis-1,4-Dichloro-2-butene	12.25	Incomplete Integration	K4WN	06/03/24 20:27

Lab Sample ID: IC 410-513039/8

Client Sample ID:

Date Analyzed: 06/03/24 19:32

Lab File ID: WU03X07.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	4.18	Incomplete Integration	K4WN	06/03/24 20:27
cis-1,4-Dichloro-2-butene	12.25	Incomplete Integration	K4WN	06/03/24 20:28

Lab Sample ID: IC 410-513039/12

Client Sample ID:

Date Analyzed: 06/03/24 21:00

Lab File ID: WU03X11.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.39	Incomplete Integration	K4WN	06/03/24 23:50
Bromomethane	2.73	Incomplete Integration	K4WN	06/04/24 00:08
n-Pentane	3.17	Incomplete Integration	K4WN	06/03/24 23:51
Ethanol	3.34	Invalid Compound ID	UKEK	06/04/24 13:23
Acrolein	3.58	Incomplete Integration	K4WN	06/04/24 00:23
Methyl acetate	4.19	Incomplete Integration	K4WN	06/03/24 23:51
t-Butyl alcohol	4.62	Incomplete Integration	K4WN	06/03/24 23:51
2-Butanone (MEK)	6.31	Incomplete Integration	K4WN	06/03/24 23:51
Bromochloromethane	6.68	Incomplete Integration	K4WN	06/03/24 23:52
Isobutyl alcohol	7.43	Incomplete Integration	K4WN	06/03/24 23:52
n-Heptane	7.95	Incomplete Integration	K4WN	06/03/24 23:52
1,4-Dioxane	8.88	Incomplete Integration	K4WN	06/03/24 23:52
2-Hexanone	10.66	Incomplete Integration	K4WN	06/03/24 23:53

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Instrument ID: 9137

Analysis Batch Number: 513039

Lab Sample ID: IC 410-513039/13

Client Sample ID:

Date Analyzed: 06/03/24 21:22

Lab File ID: WU03X12.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	3.26	Incomplete Integration	K4WN	06/03/24 23:53
Acrolein	3.56	Incomplete Integration	K4WN	06/04/24 00:24
Acetone	3.76	Incomplete Integration	K4WN	06/03/24 23:53
2-Propanol	3.98	Incomplete Integration	K4WN	06/03/24 23:54
Methyl acetate	4.19	Incomplete Integration	K4WN	06/03/24 23:54
t-Butyl alcohol	4.56	Incomplete Integration	K4WN	06/03/24 23:54
2-Butanone (MEK)	6.32	Incomplete Integration	K4WN	06/03/24 23:55
Isobutyl alcohol	7.44	Incomplete Integration	K4WN	06/03/24 23:55
n-Butanol	8.30	Incomplete Integration	K4WN	06/03/24 23:55

Lab Sample ID: IC 410-513039/14

Client Sample ID:

Date Analyzed: 06/03/24 21:44

Lab File ID: WU03X13.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein	3.57	Incomplete Integration	K4WN	06/04/24 00:24
Acetone	3.77	Incomplete Integration	K4WN	06/03/24 23:56
Methyl acetate	4.20	Incomplete Integration	K4WN	06/03/24 23:56
2-Butanone (MEK)	6.33	Incomplete Integration	K4WN	06/03/24 23:57
1,4-Dioxane	8.84	Incomplete Integration	K4WN	06/03/24 23:57

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Instrument ID: 9137

Analysis Batch Number: 513039

Lab Sample ID: IC 410-513039/15

Client Sample ID:

Date Analyzed: 06/03/24 22:06

Lab File ID: WU03X14.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein	3.57	Incomplete Integration	K4WN	06/04/24 00:25
Acetone	3.75	Incomplete Integration	K4WN	06/03/24 23:58
2-Propanol	3.97	Incomplete Integration	K4WN	06/04/24 00:09
t-Butyl alcohol	4.60	Incomplete Integration	K4WN	06/03/24 23:58
1,4-Dioxane	8.85	Incomplete Integration	K4WN	06/03/24 23:58

Lab Sample ID: IC 410-513039/17

Client Sample ID:

Date Analyzed: 06/03/24 22:49

Lab File ID: WU03X16.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethyl t-butyl ether	6.10	Split Peak	UKEK	06/04/24 12:50
1,4-Dioxane	8.85	Incomplete Integration	K4WN	06/04/24 00:00

Lab Sample ID: IC 410-513039/18

Client Sample ID:

Date Analyzed: 06/03/24 23:11

Lab File ID: WU03X17.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	3.26	Incomplete Integration	K4WN	06/04/24 00:02
Ethyl t-butyl ether	6.11	Split Peak	UKEK	06/04/24 12:50
t-Amyl methyl ether	7.72	Split Peak	UKEK	06/04/24 12:53

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Instrument ID: 9137

Analysis Batch Number: 525333

Lab Sample ID: CCVIS 410-525333/3

Client Sample ID:

Date Analyzed: 07/07/24 20:09

Lab File ID: WL07X02.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	4.21	Incomplete Integration	JS6E	07/07/24 20:40
t-Butyl alcohol	4.58	Incomplete Integration	JS6E	07/07/24 20:41

Lab Sample ID: MB 410-525333/6

Client Sample ID:

Date Analyzed: 07/07/24 21:15

Lab File ID: WL07X05.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)		Invalid Compound ID	FQ4L	07/08/24 15:50

Lab Sample ID: 410-177863-1

Client Sample ID: HD-QC1-0/1-4

Date Analyzed: 07/07/24 22:42

Lab File ID: WL07X09.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)		Invalid Compound ID	FQ4L	07/08/24 15:13

Lab Sample ID: 410-177863-2

Client Sample ID: HD-QC1-0/1-3

Date Analyzed: 07/07/24 23:04

Lab File ID: WL07X10.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)		Invalid Compound ID	FQ4L	07/08/24 15:48

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Instrument ID: 9137

Analysis Batch Number: 525333

Lab Sample ID: 410-177863-3

Client Sample ID: HD-MW-88-0/1-0

Date Analyzed: 07/08/24 00:31

Lab File ID: WL07X14.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane		Invalid Compound ID	FQ4L	07/08/24 15:45
2-Butanone (MEK)		Invalid Compound ID	FQ4L	07/08/24 15:45

Lab Sample ID: 410-177863-4

Client Sample ID: HD-MW-101S-0/1-0

Date Analyzed: 07/08/24 00:53

Lab File ID: WL07X15.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1-Trichloroethane		Invalid Compound ID	FQ4L	07/08/24 15:44
2-Butanone (MEK)		Invalid Compound ID	FQ4L	07/08/24 15:44

Lab Sample ID: 410-177863-5

Client Sample ID: HD-MW-101D-0/1-0

Date Analyzed: 07/08/24 01:15

Lab File ID: WL07X16.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane		Invalid Compound ID	FQ4L	07/08/24 15:44

Lab Sample ID: 410-177863-6

Client Sample ID: HD-MW-6-0/1-0

Date Analyzed: 07/08/24 01:37

Lab File ID: WL07X17.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)		Invalid Compound ID	FQ4L	07/08/24 15:43

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Instrument ID: 9137

Analysis Batch Number: 525333

Lab Sample ID: 410-177863-7

Client Sample ID: HD-MW-5-0/1-0

Date Analyzed: 07/08/24 01:59

Lab File ID: WL07X18.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)		Invalid Compound ID	FQ4L	07/08/24 15:43

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_4ppbEtOH_00651	06/10/24	06/03/24	DI Water, Lot DI 23226	1000 mL	MSV_CCV_2CEVE_00178	4 uL	2-Chloroethyl vinyl ether	4 ug/L
					MSV_CCV_CYC_00008	32 uL	Cyclohexanone	199.994 ug/L
					MSV_CCV_ETOH_00006	20 uL	Ethanol	250.01 ug/L
					MSV_CCV_GASES_00782	2 uL	1,2-Dichloro-1,1,2-trifluoroethane	4 ug/L
							Bromomethane	4 ug/L
							Butadiene	4 ug/L
							Chloroethane	4 ug/L
							Chloromethane	4 ug/L
							Dichlorodifluoromethane	4 ug/L
							Dichlorofluoromethane	4 ug/L
							Trichlorofluoromethane	4 ug/L
							Vinyl chloride	4 ug/L
					MSV_CCV_VOC#1_00186	4 uL	1,1,1,2-Tetrachloroethane	4 ug/L
							1,1,1-Trichloroethane	4 ug/L
							1,1,2,2-Tetrachloroethane	4 ug/L
							1,1,2-Trichloroethane	4 ug/L
							1,1-Dichloroethane	4 ug/L
							1,1-Dichloroethene	4 ug/L
							1,1-Dichloropropene	4 ug/L
							1,2,3-Trichlorobenzene	4 ug/L
							1,2,3-Trichloropropane	4 ug/L
							1,2,4-Trichlorobenzene	4 ug/L
							1,2,4-Trimethylbenzene	4 ug/L
							1,2-Dibromo-3-Chloropropane	4 ug/L
							1,2-Dibromoethane (EDB)	4 ug/L
							1,2-Dichlorobenzene	4 ug/L
							1,2-Dichloroethane	4 ug/L
							1,2-Dichloropropane	4 ug/L
							1,3,5-Trimethylbenzene	4 ug/L
							1,3-Dichlorobenzene	4 ug/L
							1,3-Dichloropropane	4 ug/L
							1,4-Dichlorobenzene	4 ug/L
							2,2-Dichloropropane	4 ug/L
							2-Chlorotoluene	4 ug/L
							4-Chlorotoluene	4 ug/L
							4-Isopropyltoluene	4 ug/L
							Benzene	4 ug/L
							Bromobenzene	4 ug/L
							Bromochloromethane	4 ug/L
							Bromodichloromethane	4 ug/L
							Bromoform	4 ug/L
							Carbon tetrachloride	4 ug/L
							Chlorobenzene	4 ug/L
							Chloroform	4 ug/L
							cis-1,2-Dichloroethene	4 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylcyclohexane	4 ug/L
							n-Butanol	50 ug/L
							n-Heptane	4 ug/L
							o-diethylbenzene	4 ug/L
							p-Diethylbenzene	4 ug/L
							Pentane	4 ug/L
							Propionitrile	20 ug/L
							Tert-amyl methyl ether	4 ug/L
							Tert-butyl ethyl ether	4 ug/L
							Tetrahydrofuran	20 ug/L
							trans-1,4-Dichloro-2-butene	10 ug/L
					MSV_CCV_VOC#3_00182	3.2 uL	Acrolein	40.088 ug/L
					MSV_V_Acr_Std_00005	0.8 uL	2-Butanone (MEK)	8 ug/L
							2-Hexanone	8 ug/L
							4-Methyl-2-pentanone (MIBK)	8 ug/L
							Acetone	8 ug/L
							2-Ethylhexyl acrylate	3.9988 ug/L
							n-Butyl acrylate	4.00185 ug/L
							Ethyl acrylate	3.99968 ug/L
							Methyl acrylate	4.00056 ug/L
.MSV_CCV_2CEVE_00178	07/02/24	06/02/24	Methanol, Lot EH471	5 mL	MSV_V_2CLEVE_00183	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00183	04/30/26		Restek, Lot A0197472		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_CCV_CYC_00008	07/15/24	01/15/24	50/50 MeOH/Water, Lot EH471	200 mL	MSV_VCYC_STK_00011	8.605 mL	Cyclohexanone	6249.81 ug/mL
..MSV_VCYC_STK_00011	07/15/24	01/15/24	50/50 MeOH/Water, Lot EH471	10 mL	MSV_CYC_00009	1.4526 g	Cyclohexanone	145260 ug/mL
...MSV_CYC_00009	06/30/27		Chem Service, Lot 14568900		(Purchased Reagent)		Cyclohexanone	1 g/g
.MSV_CCV_ETOH_00006	09/20/24	03/20/24	Methanol, Lot EH471	200 mL	MSV_VETOH_STK_00015	9.084 mL	Ethanol	12500.5 ug/mL
..MSV_VETOH_STK_00015	09/20/24	03/20/24	Methanol, Lot EH471	10 mL	MSV_EtOH_00048	2.7522 g	Ethanol	275220 ug/mL
...MSV_EtOH_00048	04/30/28		Chem Service, Lot 15032500		(Purchased Reagent)		Ethanol	1 g/g
.MSV_CCV_GASES_00782	06/10/24		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_CCV_VOC#1_00186	07/02/24	06/02/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00184	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_MegaMix#2_00179	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,3-Diethylbenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-ethoxy-2-methyl butane	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl alcohol	5000 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							o-diethylbenzene	1000 ug/mL
							p-Diethylbenzene	1000 ug/mL
							Pentane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00184	07/02/24	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00179	07/02/24		Restek, Lot A0197578		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,3-Diethylbenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-ethoxy-2-methyl butane	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Methylnaphthalene	5000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							o-diethylbenzene	5000 ug/mL
							p-Diethylbenzene	5000 ug/mL
							Pentane	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_CCV_VOC#3_00182	06/17/24	06/02/24	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00017	0.5 mL	Acrolein	12527.5 ug/mL
					MSV_V_Ketones_00166	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_CCV_ACR_00017	06/17/24	04/18/24	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00039	9.125 mL	Acrolein	125275 ug/mL
...MSV_VACR_STK_00039	06/17/24	04/18/24	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00033	1.4778 g	Acrolein	137288 ug/mL
....MSV_ACROLEIN_00033	01/31/25	Chem Service, Lot 15004000			(Purchased Reagent)		Acrolein	0.929 g/g
..MSV_V_Ketones_00166	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_V_Acr_Std_00005	07/14/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_MStk_2E6A_00003	0.769 mL	Acetone	12500 ug/mL
					MSV_MStk_BACr_00004	0.881 mL	2-Ethylhexyl acrylate	4998.5 ug/mL
					MSV_MStk_EtAc_00003	0.991 mL	n-Butyl acrylate	5002.32 ug/mL
					MSV_MStk_MACr_00003	0.79 mL	Ethyl acrylate	4999.6 ug/mL
..MSV_MStk_2E6A_00003	07/21/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_2Eth6Acry_00001	0.65 g	Methyl acrylate	5000.7 ug/mL
...MSV_2Eth6Acry_00001	02/28/28		Sigma Aldrich, Lot MKCN1302		(Purchased Reagent)		2-Ethylhexyl acrylate	65000 ug/mL
..MSV_MStk_BACr_00004	07/14/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_nButylAcr_00005	0.5678 g	2-Ethylhexyl acrylate	1 g/g
...MSV_nButylAcr_00005	01/31/26		Chem Service, Lot 14061100		(Purchased Reagent)		n-Butyl acrylate	56780 ug/mL
..MSV_MStk_EtAc_00003	07/14/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_EthylAcry_00003	0.5045 g	n-Butyl acrylate	1 g/g
...MSV_EthylAcry_00003	03/31/26		Chem Service, Lot 14239800		(Purchased Reagent)		Ethyl acrylate	50450 ug/mL
..MSV_MStk_MACr_00003	07/14/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_MethylAcr_00003	0.633 g	Ethyl acrylate	1 g/g
...MSV_MethylAcr_00003	01/31/26		Chem Service, Lot 14104500		(Purchased Reagent)		Methyl acrylate	63300 ug/mL
MSV_CCV_2CEVE_00178	07/02/24	06/02/24	Methanol, Lot EH471	5 mL	MSV_V_2CLEVE_00183	1 mL	Methyl acrylate	1 g/g
.MSV_V_2CLEVE_00183	04/30/26		Restek, Lot A0197472		(Purchased Reagent)		2-Chloroethyl vinyl ether	1000 ug/mL
MSV_CCV_CYC_00008	07/15/24	01/15/24	50/50 MeOH/Water, Lot EH471	200 mL	MSV_VCYC_STK_00011	8.605 mL	2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_VCYC_STK_00011	07/15/24	01/15/24	50/50 MeOH/Water, Lot EH471	10 mL	MSV_CYC_00009	1.4526 g	Cyclohexanone	6249.81 ug/mL
..MSV_CYC_00009	06/30/27		Chem Service, Lot 14568900		(Purchased Reagent)		Cyclohexanone	145260 ug/mL
MSV_CCV_EE_00007	11/07/24	05/07/24	Methanol, Lot EH471	50 mL	MSV_EE_MISCSK_00014	0.917 mL	Cyclohexanone	1 g/g
.MSV_EE_MISCSK_00014	11/07/24	05/07/24	Methanol, Lot EH471	10 mL	MSV_EE_Neat_00011	0.5452 g	Ethyl ether	999.897 ug/mL
..MSV_EE_Neat_00011	06/30/27		Chem Service, Lot 14084700		(Purchased Reagent)		Ethyl ether	54520 ug/mL
MSV_CCV_ETOH_00006	09/20/24	03/20/24	Methanol, Lot EH471	200 mL	MSV_VETOH_STK_00015	9.084 mL	Ethyl ether	1 g/g
.MSV_VETOH_STK_00015	09/20/24	03/20/24	Methanol, Lot EH471	10 mL	MSV_EtOH_00048	2.7522 g	Ethanol	12500.5 ug/mL
..MSV_EtOH_00048	04/30/28		Chem Service, Lot 15032500		(Purchased Reagent)		Ethanol	275220 ug/mL
MSV_CCV_GASES_00782	06/10/24		Restek, Lot A0197586		(Purchased Reagent)		Ethanol	1 g/g
							1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_CCV_GASES_00815	07/10/24		Restek, Lot A0212054		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_CCV_LKB_00009	06/19/24	12/21/23	Methanol, Lot EG095	50 mL	MSV_V34D1B_SK_00012	0.541 mL	3,4-Dichloro-1-butene	1000.53 ug/mL
.MSV_V34D1B_SK_00012	06/19/24	12/21/23	Methanol, Lot EG095	10 mL	MSV_Vcl4d_STK_00010	0.81 mL	cis-1,4-Dichloro-2-butene	1000.35 ug/mL
..MSV_3,4DC1Be_00003	08/22/27		TCI, Lot W3RMJ		MSV_3,4DC1Be_00003	0.9247 g	3,4-Dichloro-1-butene	92470 ug/mL
					(Purchased Reagent)		3,4-Dichloro-1-butene	1 g/g

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_Vc14d_STK_00010	06/19/24	12/19/23	Methanol, Lot EG095	10 mL	MSV_c14dcb_Nt_00004	0.65 g	cis-1,4-Dichloro-2-butene	61750 ug/mL
..MSV_c14dcb_Nt_00004	08/16/27	Aldrich, Lot SHBH4584V			(Purchased Reagent)		cis-1,4-Dichloro-2-butene	0.95 g/g
MSV_CCV_OH_Sp_00010	07/14/24	05/20/24	Methanol, Lot EH822	10 mL	MSV_V_Acr_Std_00006	2 mL	2-Ethylhexyl acrylate	999.7 ug/mL
							n-Butyl acrylate	1000.46 ug/mL
							Ethyl acrylate	999.919 ug/mL
							Methyl acrylate	1000.14 ug/mL
.MSV_V_Acr_Std_00006	07/14/24	04/23/24	Methanol, Lot EH471	10 mL	MSV_MStk_2E6A_00003	0.769 mL	2-Ethylhexyl acrylate	4998.5 ug/mL
					MSV_MStk_BACr_00004	0.881 mL	n-Butyl acrylate	5002.32 ug/mL
					MSV_MStk_EtAc_00003	0.991 mL	Ethyl acrylate	4999.6 ug/mL
					MSV_MStk_MACr_00003	0.79 mL	Methyl acrylate	5000.7 ug/mL
..MSV_MStk_2E6A_00003	07/21/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_2Eth6Acry_00001	0.65 g	2-Ethylhexyl acrylate	65000 ug/mL
...MSV_2Eth6Acry_00001	02/28/28	Sigma Aldrich, Lot MKCN1302			(Purchased Reagent)		2-Ethylhexyl acrylate	1 g/g
..MSV_MStk_BACr_00004	07/14/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_nButylAcr_00005	0.5678 g	n-Butyl acrylate	56780 ug/mL
...MSV_nButylAcr_00005	01/31/26	Chem Service, Lot 14061100			(Purchased Reagent)		n-Butyl acrylate	1 g/g
..MSV_MStk_EtAc_00003	07/14/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_EthylAcr_00003	0.5045 g	Ethyl acrylate	50450 ug/mL
...MSV_EthylAcr_00003	03/31/26	Chem Service, Lot 14239800			(Purchased Reagent)		Ethyl acrylate	1 g/g
..MSV_MStk_MACr_00003	07/14/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_MethylAcr_00003	0.633 g	Methyl acrylate	63300 ug/mL
...MSV_MethylAcr_00003	01/31/26	Chem Service, Lot 14104500			(Purchased Reagent)		Methyl acrylate	1 g/g
MSV_CCV_Penta_00050	06/27/24	05/28/24	Methanol, Lot EH822	1 mL	MSV_V_PentaCL_00048	200 uL	Pentachloroethane	1000 ug/mL
..MSV_V_PentaCL_00048	06/27/24	Restek, Lot A0184174			(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_CCV_V5ACE_00036	06/10/24	05/10/24	Methanol, Lot EH822	10 mL	MSV_AcetatesV_00068	1 mL	Acetonitrile	5000 ug/mL
							Ethyl acetate	1000 ug/mL
							Isopropyl acetate	1000 ug/mL
							n-Butyl acetate	1000 ug/mL
							n-Propyl acetate	1000 ug/mL
							Vinyl acetate	1000 ug/mL
.MSV_AcetatesV_00068	11/10/24	Restek, Lot A0197847			(Purchased Reagent)		Acetonitrile	50000 ug/mL
							Ethyl acetate	10000 ug/mL
							Isopropyl acetate	10000 ug/mL
							n-Butyl acetate	10000 ug/mL
							n-Propyl acetate	10000 ug/mL
							Vinyl acetate	10000 ug/mL
MSV_CCV_VOC#1_00186	07/02/24	06/02/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00184	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00179	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,3-Diethylbenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

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	1000 ug/mL
							2-ethoxy-2-methyl butane	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl alcohol	5000 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							o-diethylbenzene	1000 ug/mL
							p-Diethylbenzene	1000 ug/mL
							Pentane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
.MSV_MegaMIX#1_00184	07/02/24		Restek, Lot A0197556			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00179	07/02/24		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
							1,3-Diethylbenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-ethoxy-2-methyl butane	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	25000 ug/mL
							2-Methylnaphthalene	5000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							o-diethylbenzene	5000 ug/mL
							p-Diethylbenzene	5000 ug/mL
							Pentane	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_ccv_voc#1_00191	08/06/24	07/07/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00186	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00181	1 mL	Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_MegaMIX#1_00186	08/06/24		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
							1,2-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
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
.MSV_MegaMix#2_00181	08/06/24		Restek, Lot A0197578		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
MSV_ccv_voc#3_00182	06/17/24	06/02/24	Methanol, Lot EH471	5 mL	MSV_CCv_ACR_00017	0.5 mL	Acrolein	12527.5 ug/mL
					MSV_V_Ketones_00166	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_CCV_ACR_00017	06/17/24	04/18/24	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00039	9.125 mL	Acrolein	125275 ug/mL
..MSV_VACR_STK_00039	06/17/24	04/18/24	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00033	1.4778 g	Acrolein	137288 ug/mL
...MSV_ACROLEIN_00033	01/31/25	Chem Service, Lot 15004000			(Purchased Reagent)		Acrolein	0.929 g/g
.MSV_V_Ketones_00166	01/31/26	Restek, Lot A0193494			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_CCV_VOC#3_00187	08/06/24	07/07/24	Methanol, Lot EH471	5 mL	MSV_V_Ketones_00171	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_00171	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_Cent_ISO_00005	11/03/24	06/03/24	Methanol, Lot EH822-US	50 mL	MSV_Cus826_IS_00781	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_00781	11/03/24	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_Cent_ISSS_00026	07/22/24	02/22/24	Methanol, Lot EG095	50 mL	MSV_8260_SS_01137	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					MSV_Cus826_IS_00665	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_8260_SS_01137	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_Cus826_IS_00665	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_Cent_ISSS_00029	12/11/24	06/11/24	Methanol, Lot EH822-US	50 mL	MSV_Cus826_IS_00788	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_00788	12/11/24	Restek, Lot A0197488			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_Cent_ISSS_00029	12/11/24	06/11/24	Methanol, Lot EH822-US	50 mL	MSV_8260_SS_01214	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_01214	12/11/24		Restek, Lot A0206374		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MSV_LCS_Gases_00201	06/09/24	06/02/24	Methanol, Lot EH471	25 mL	MSV_QC_2K_GAS_00218	0.5 mL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00218	06/09/24		Restek, Lot A0184924		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LCS_Gases_00206	07/14/24	07/07/24	Methanol, Lot EH471	25 mL	MSV_QC_2K_GAS_00223	0.5 mL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00223	07/14/24		Restek, Lot A0184924		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LCS_VOC#1_00169	07/09/24	06/02/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00206	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration							
					Reagent ID	Volume Added									
							Ethylbenzene	40 ug/mL							
							Methylene Chloride	40 ug/mL							
							Styrene	40 ug/mL							
							Tetrachloroethene	40 ug/mL							
							Toluene	40 ug/mL							
							trans-1,2-Dichloroethene	40 ug/mL							
							trans-1,3-Dichloropropene	40 ug/mL							
					MSV_M_MIX2SEC_00205	1 mL	Trichloroethene	40 ug/mL							
							Carbon disulfide	40 ug/mL							
					MSV_Q_Ketones_00187	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_00206	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_00205	04/30/26	Restek, Lot A0197573			(Purchased Reagent)		Carbon disulfide	1000 ug/mL
														Methyl tert-butyl ether	1000 ug/mL
							.MSV_Q_Ketones_00187	02/28/26	Restek, Lot A0194631			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
														2-Hexanone	12500 ug/mL
														4-Methyl-2-pentanone (MIBK)	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00175	08/06/24	07/07/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00207	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_00211	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00191	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_00207	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	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00211	04/30/26		Restek, Lot A0197573		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00191	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_V_BFB_00016							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							divinyl benzene	
							Tentatively Identified Compound	
							Total BTEX	
							Total Diethylbenzene	
							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_BFB_00017							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							divinyl benzene	
							Tentatively Identified Compound	
							Total BTEX	
							Total Diethylbenzene	
							Xylenes, Total	
					MSV_VBFB_STK_00012	0.09 mL	BFB	501120 ug/mL
.MSV_VBFB_STK_00012	12/02/24	06/02/24	Methanol, Lot EH471	10 mL	MSV_4BFB_NEAT_00011	13920 g	BFB	1392000000 ug/mL
..MSV_4BFB_NEAT_00011	05/31/25		Chem Service, Lot 15267000		(Purchased Reagent)		BFB	1 g/g
MSV_V_SMFreon_00039	06/19/24		Restek, Lot A0184508		(Purchased Reagent)		2-Chloro-1,1,1-Trifluoroethane	2000 ug/mL
							Chlorodifluoromethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177863-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorotrifluoroethene	2000 ug/mL

Reagent

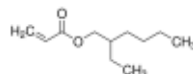
MSV_2Eth6Acry_00001

Certificate of Analysis

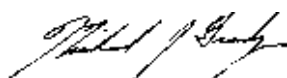
Product Name:

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

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



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



Michael Grady, Manager
Quality Control
Milwaukee, WI US

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



Reagent

MSV_3,4DC1Be_00003



Certificate of Analysis

08/23/2022(JST)

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

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

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

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

Customer Service:

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

Takuya Nishioka
Quality Assurance Department Manager

Reagent

MSV_AcetatesV_00068



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom Acetates Standard

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

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

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

Ship: On Ice

CERTIFIED VALUES

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

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

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

Tech Tips:

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

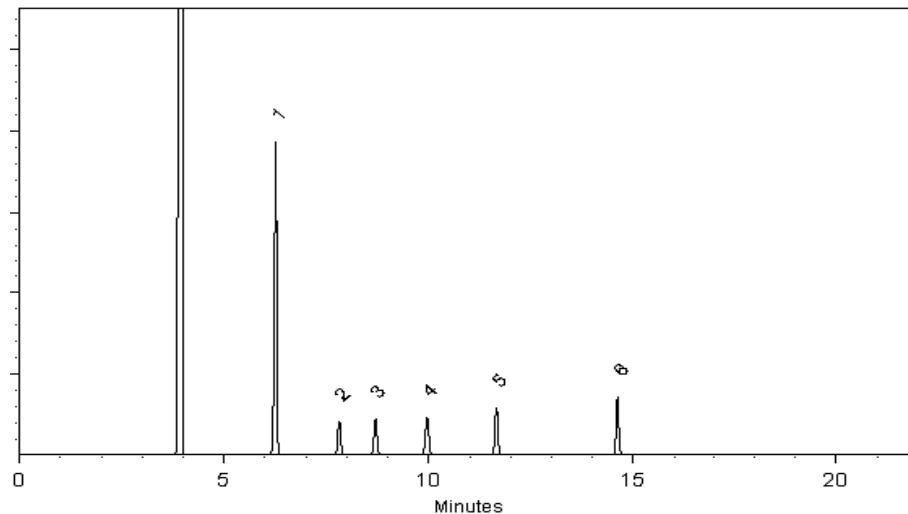
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



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

Brittany Federinko - Operations Tech I

Date Mixed: 09-May-2023

Balance Serial # B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_c14dcb_Nt_00004

3050 Spruce Street, Saint Louis, MO 63103, USA

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

Certificate of Analysis

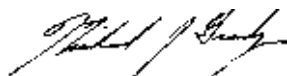
Product Name:

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

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



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



Michael Grady, Manager
Quality Control
Sheboygan Falls, WI US

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

Reagent

MSV_CCV_GASES_00782



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

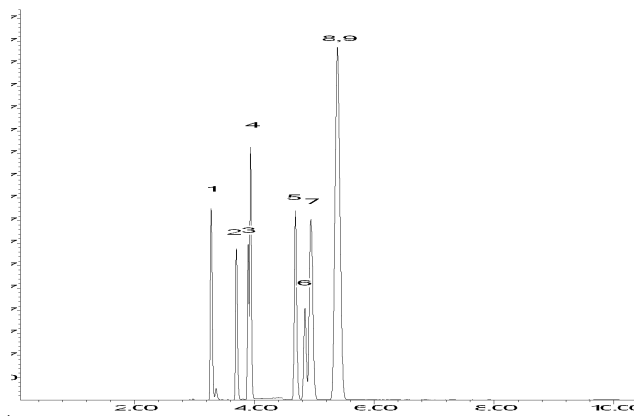
MSD

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_Cus826_IS_00781



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

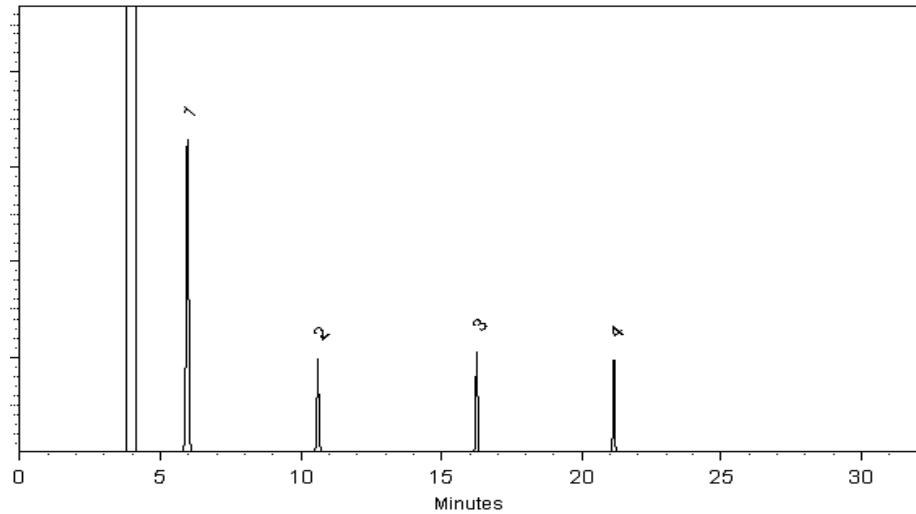
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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


Daniel Wasson - Operations Tech I

Date Mixed: 26-Apr-2023

Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_Cus826_IS_00788



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

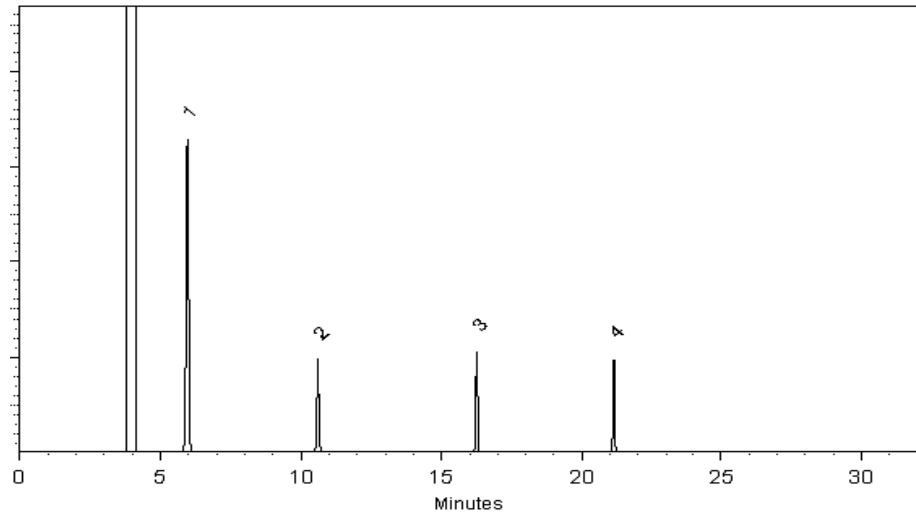
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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


Daniel Wasson - Operations Tech I

Date Mixed: 26-Apr-2023

Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_EthylAcry_00003

CERTIFICATE OF ANALYSIS

Ethyl acrylate

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

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

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

Certified By:



Kristin R Jones

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



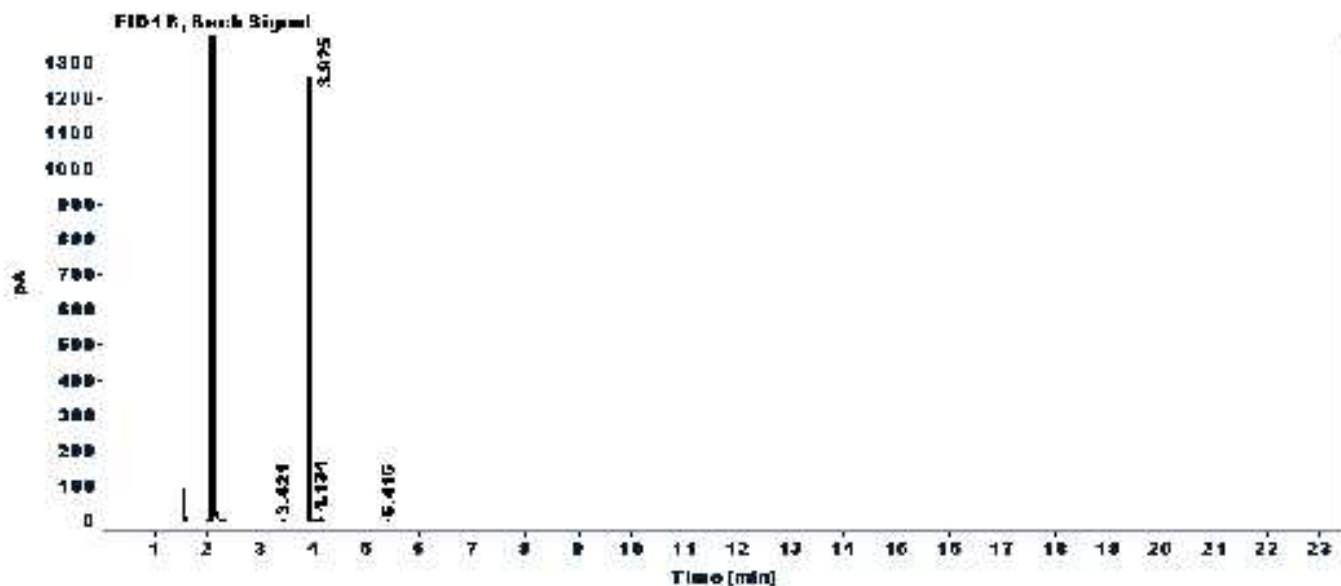
COA Form
Revision 3 (3/2015)

Print Date: 03/27/23

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

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



Signal: FID1 B, Back Signal

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

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



Reagent

MSV_M_MIX1SEC_00206



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,1-Dichloroethene	75-35-4.SEC	13896500	99%	1,004.5 µg/mL	+/- 57.0049
2	Methylene chloride (dichloromethane)	75-09-2.SEC	FGM02	99%	1,004.4 µg/mL	+/- 56.9992
3	trans-1,2-Dichloroethene	156-60-5.SEC	L5QOH	99%	1,003.9 µg/mL	+/- 56.9751
4	1,1-Dichloroethane	75-34-3.SEC	1026.30-3	98%	1,006.0 µg/mL	+/- 57.0953
5	2,2-Dichloropropane	594-20-7.SEC	I7E8E	99%	1,005.2 µg/mL	+/- 57.0474
6	cis-1,2-Dichloroethene	156-59-2.SEC	YZO5O	99%	1,004.3 µg/mL	+/- 56.9952
7	Chloroform	67-66-3.SEC	1297547	99%	1,003.9 µg/mL	+/- 56.9736
8	Bromochloromethane	74-97-5.SEC	13547000	99%	1,004.4 µg/mL	+/- 57.0043
9	1,1,1-Trichloroethane	71-55-6.SEC	14183000	99%	1,005.0 µg/mL	+/- 57.0375
10	1,1-Dichloropropene	563-58-6.SEC	556500	99%	1,003.8 µg/mL	+/- 56.9691
11	Carbon tetrachloride	56-23-5.SEC	11466	99%	1,003.9 µg/mL	+/- 56.9751
12	1,2-Dichloroethane	107-06-2.SEC	00016165	99%	1,003.1 µg/mL	+/- 56.9268
13	Benzene	71-43-2.SEC	B28Y008	99%	1,005.0 µg/mL	+/- 57.0361
14	Trichloroethene	79-01-6.SEC	H04X050	99%	1,003.3 µg/mL	+/- 56.9410
15	1,2-Dichloropropane	78-87-5.SEC	ERRBI-RH	99%	1,003.7 µg/mL	+/- 56.9609
16	Bromodichloromethane	75-27-4.SEC	28128	99%	1,004.8 µg/mL	+/- 57.0261

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

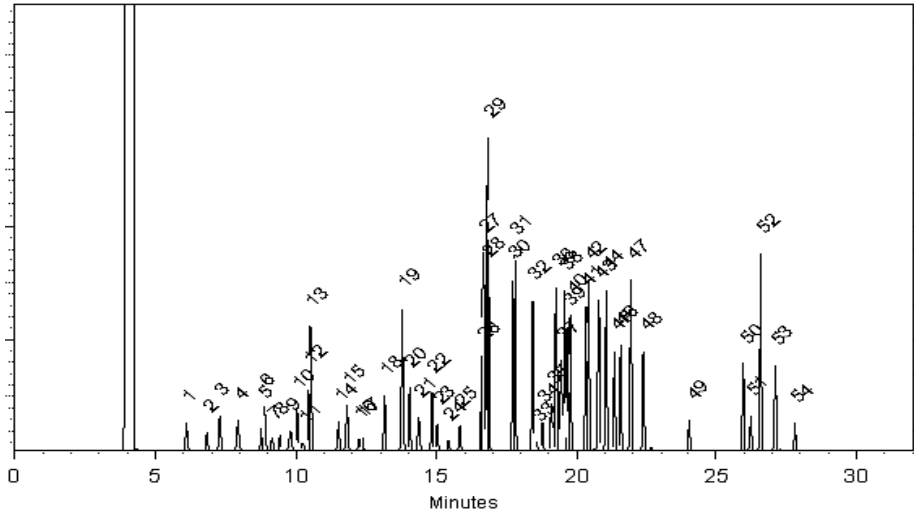
53	Naphthalene	91-20-3.SEC	AM5NG	99%	1,002.7	µg/mL	+/- 56.9055
54	1,2,3-Trichlorobenzene	87-61-6.SEC	A0043055	99%	1,004.6	µg/mL	+/- 57.0156

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

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

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)
Carrier Gas:
hydrogen-constant pressure 11.0 psi.
Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)
Inj. Temp:
200°C
Det. Temp:
250°C
Det. Type:
FID
Split Vent:
40 ml/min
Inj. Vol
1µl



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


Jess Hoy - Operations Tech I

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


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Jun-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX1SEC_00207



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,1-Dichloroethene	75-35-4.SEC	13896500	99%	1,004.5 µg/mL	+/- 57.0049
2	Methylene chloride (dichloromethane)	75-09-2.SEC	FGM02	99%	1,004.4 µg/mL	+/- 56.9992
3	trans-1,2-Dichloroethene	156-60-5.SEC	L5QOH	99%	1,003.9 µg/mL	+/- 56.9751
4	1,1-Dichloroethane	75-34-3.SEC	1026.30-3	98%	1,006.0 µg/mL	+/- 57.0953
5	2,2-Dichloropropane	594-20-7.SEC	I7E8E	99%	1,005.2 µg/mL	+/- 57.0474
6	cis-1,2-Dichloroethene	156-59-2.SEC	YZO5O	99%	1,004.3 µg/mL	+/- 56.9952
7	Chloroform	67-66-3.SEC	1297547	99%	1,003.9 µg/mL	+/- 56.9736
8	Bromochloromethane	74-97-5.SEC	13547000	99%	1,004.4 µg/mL	+/- 57.0043
9	1,1,1-Trichloroethane	71-55-6.SEC	14183000	99%	1,005.0 µg/mL	+/- 57.0375
10	1,1-Dichloropropene	563-58-6.SEC	556500	99%	1,003.8 µg/mL	+/- 56.9691
11	Carbon tetrachloride	56-23-5.SEC	11466	99%	1,003.9 µg/mL	+/- 56.9751
12	1,2-Dichloroethane	107-06-2.SEC	00016165	99%	1,003.1 µg/mL	+/- 56.9268
13	Benzene	71-43-2.SEC	B28Y008	99%	1,005.0 µg/mL	+/- 57.0361
14	Trichloroethene	79-01-6.SEC	H04X050	99%	1,003.3 µg/mL	+/- 56.9410
15	1,2-Dichloropropane	78-87-5.SEC	ERRBI-RH	99%	1,003.7 µg/mL	+/- 56.9609
16	Bromodichloromethane	75-27-4.SEC	28128	99%	1,004.8 µg/mL	+/- 57.0261

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

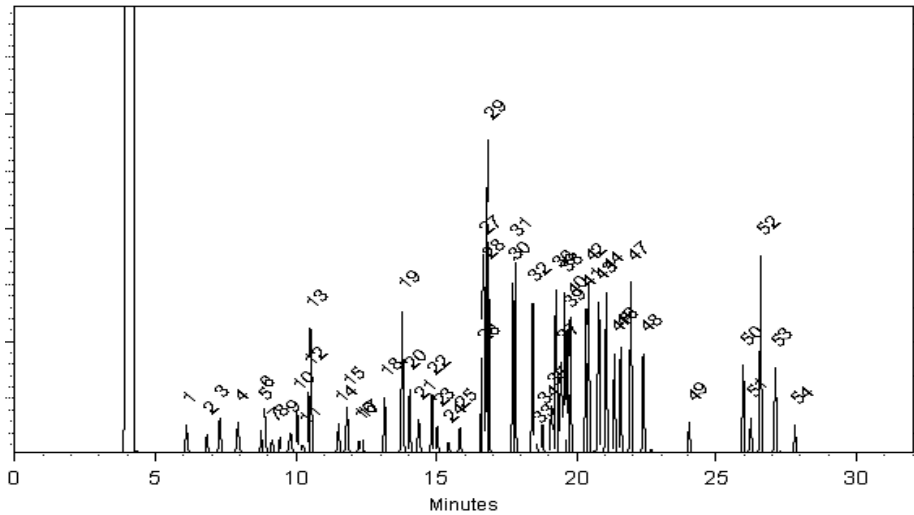
53	Naphthalene	91-20-3.SEC	AM5NG	99%	1,002.7	µg/mL	+/- 56.9055
54	1,2,3-Trichlorobenzene	87-61-6.SEC	A0043055	99%	1,004.6	µg/mL	+/- 57.0156

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

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

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)
Carrier Gas:
hydrogen-constant pressure 11.0 psi.
Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)
Inj. Temp:
200°C
Det. Temp:
250°C
Det. Type:
FID
Split Vent:
40 ml/min
Inj. Vol
1µl



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


Jess Hoy - Operations Tech I

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


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Jun-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_00205



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Pentane (C5)	109-66-0.SEC FGH02		99%	1,006.7 µg/mL	+/- 16.4916
2	2-Propanol (isopropanol)	67-63-0.SEC 7B8ZE		99%	7,533.3 µg/mL	+/- 123.1844
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1.SEC 18342		99%	1,004.0 µg/mL	+/- 16.4479
4	tert-Butanol (TBA)	75-65-0.SEC DI34O		99%	10,066.7 µg/mL	+/- 164.6093
5	Methyl acetate	79-20-9.SEC LV27M		99%	1,006.0 µg/mL	+/- 16.4807
6	Iodomethane (methyl iodide)	74-88-4.SEC Y25A027		99%	1,003.3 µg/mL	+/- 16.4370
7	Allyl chloride (3-chloropropene)	107-05-1.SEC RD210329		99%	1,006.0 µg/mL	+/- 16.4807
8	Carbon disulfide	75-15-0.SEC MKBL1376V		99%	1,002.7 µg/mL	+/- 16.4260
9	Acrylonitrile	107-13-1.SEC V54AD		99%	5,030.0 µg/mL	+/- 82.2742
10	Methyl-tert-butyl ether (MTBE)	1634-04-4.SECDCQG		99%	1,007.3 µg/mL	+/- 16.5025
11	n-Hexane (C6)	110-54-3.SEC 10188491		99%	1,009.3 µg/mL	+/- 16.5353
12	Diisopropyl ether (DIPE)	108-20-3.SEC LL7TN-SH		99%	1,005.3 µg/mL	+/- 16.4697
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8 S230420RSR		99%	1,005.3 µg/mL	+/- 16.4697
14	Ethyl-tert-butyl ether (ETBE)	637-92-3.SEC UCI5B		98%	1,006.8 µg/mL	+/- 16.4935
15	Propionitrile	107-12-0.SEC B4ZPC		99%	7,542.0 µg/mL	+/- 123.3262
16	Methacrylonitrile	126-98-7 1012014		99%	7,562.0 µg/mL	+/- 123.6532

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

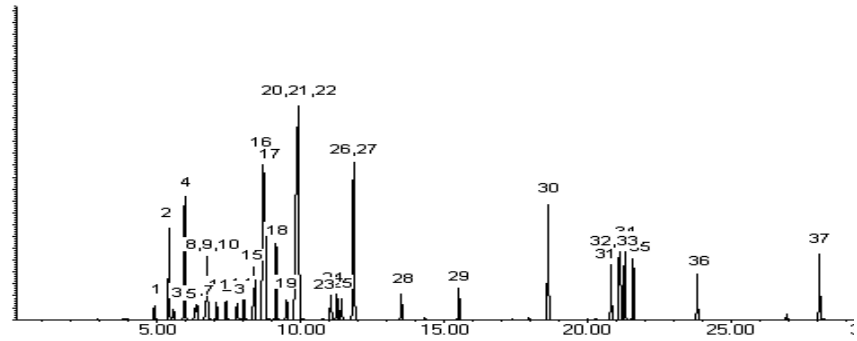
MSD

Split Vent:

25.0 ml/min.

Inj. Vol

1µl



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


Bryan Snyder - Operations Tech I

Date Mixed: 30-Apr-2023

Balance Serial # 1128342314


Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 19-Jun-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_00211



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Pentane (C5)	109-66-0.SEC FGH02		99%	1,006.7 µg/mL	+/- 16.4916
2	2-Propanol (isopropanol)	67-63-0.SEC 7B8ZE		99%	7,533.3 µg/mL	+/- 123.1844
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1.SEC 18342		99%	1,004.0 µg/mL	+/- 16.4479
4	tert-Butanol (TBA)	75-65-0.SEC DI34O		99%	10,066.7 µg/mL	+/- 164.6093
5	Methyl acetate	79-20-9.SEC LV27M		99%	1,006.0 µg/mL	+/- 16.4807
6	Iodomethane (methyl iodide)	74-88-4.SEC Y25A027		99%	1,003.3 µg/mL	+/- 16.4370
7	Allyl chloride (3-chloropropene)	107-05-1.SEC RD210329		99%	1,006.0 µg/mL	+/- 16.4807
8	Carbon disulfide	75-15-0.SEC MKBL1376V		99%	1,002.7 µg/mL	+/- 16.4260
9	Acrylonitrile	107-13-1.SEC V54AD		99%	5,030.0 µg/mL	+/- 82.2742
10	Methyl-tert-butyl ether (MTBE)	1634-04-4.SECDCQG		99%	1,007.3 µg/mL	+/- 16.5025
11	n-Hexane (C6)	110-54-3.SEC 10188491		99%	1,009.3 µg/mL	+/- 16.5353
12	Diisopropyl ether (DIPE)	108-20-3.SEC LL7TN-SH		99%	1,005.3 µg/mL	+/- 16.4697
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8 S230420RSR		99%	1,005.3 µg/mL	+/- 16.4697
14	Ethyl-tert-butyl ether (ETBE)	637-92-3.SEC UCI5B		98%	1,006.8 µg/mL	+/- 16.4935
15	Propionitrile	107-12-0.SEC B4ZPC		99%	7,542.0 µg/mL	+/- 123.3262
16	Methacrylonitrile	126-98-7 1012014		99%	7,562.0 µg/mL	+/- 123.6532

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

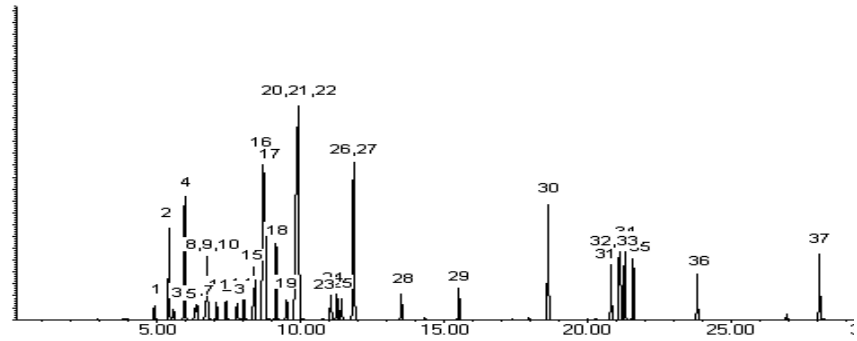
MSD

Split Vent:

25.0 ml/min.

Inj. Vol

1µl



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


Bryan Snyder - Operations Tech I

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


Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 19-Jun-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00184



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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

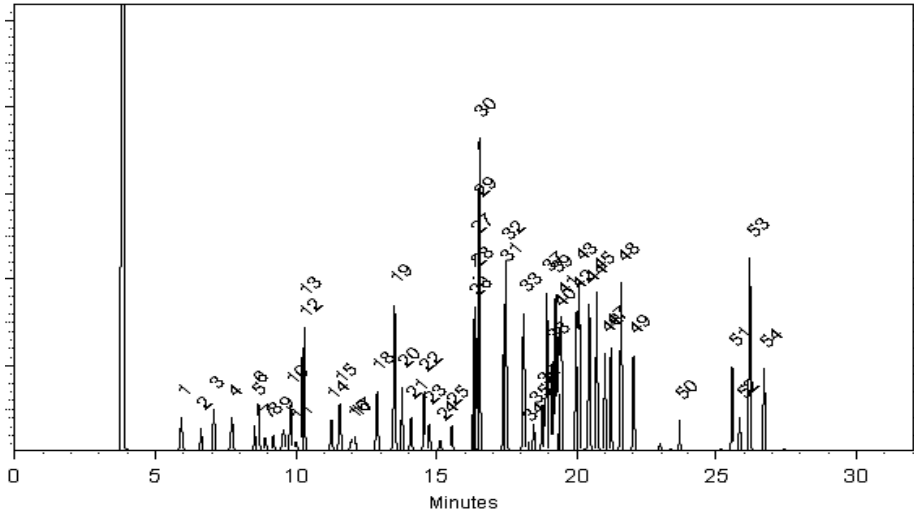
53	Naphthalene	91-20-3	MKCH0219	99%	5,029.9	µg/mL	+/- 283.3234
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,045.3	µg/mL	+/- 284.1908

* 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_00186



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

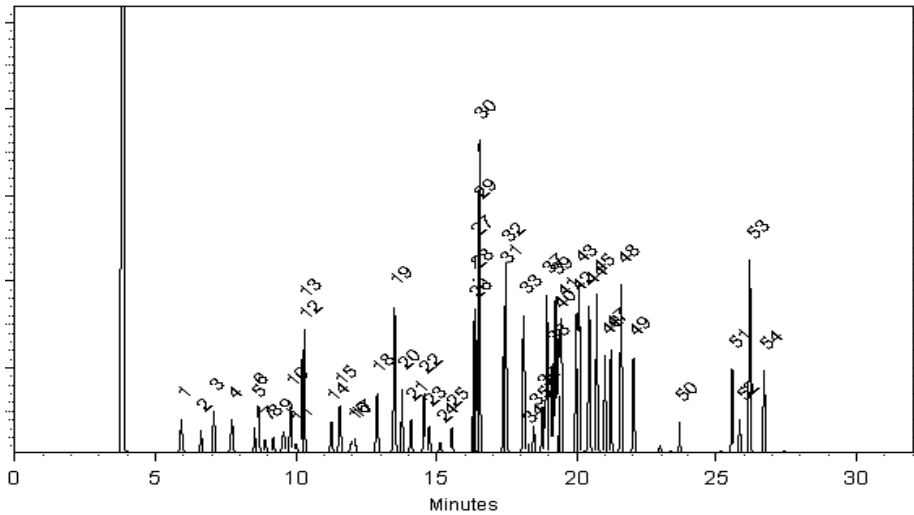
53	Naphthalene	91-20-3	MKCH0219	99%	5,029.9	µg/mL	+/- 283.3234
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,045.3	µg/mL	+/- 284.1908

* 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_00179



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:

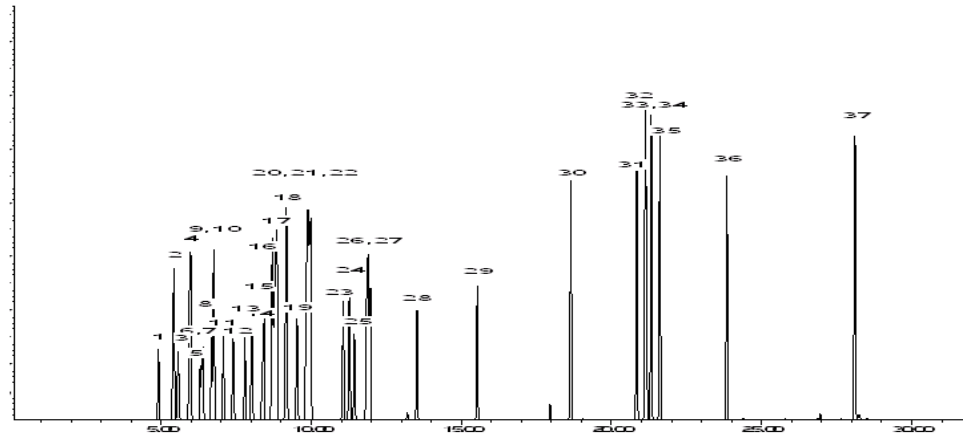
MSD

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_00181



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix® #2 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

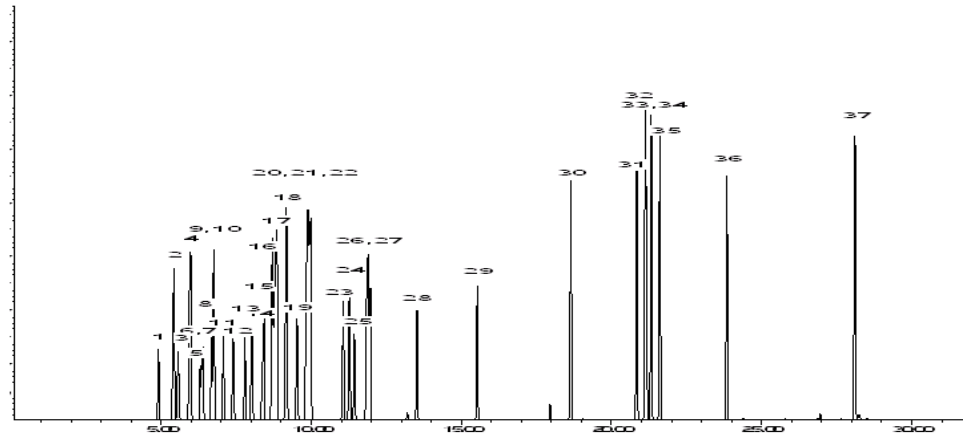
MSD

Split Vent:

25.0 ml/min.

Inj. Vol

1µl



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Apr-2023

Balance Serial # B251644995

Marlina Cowan
Marlina Cowan - Operations Tech II ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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Handling Notes:

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

Reagent

MSV_MethylAcr_00003

CERTIFICATE OF ANALYSIS

Methyl acrylate

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

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

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

Certified By:



Kristin R Jones

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



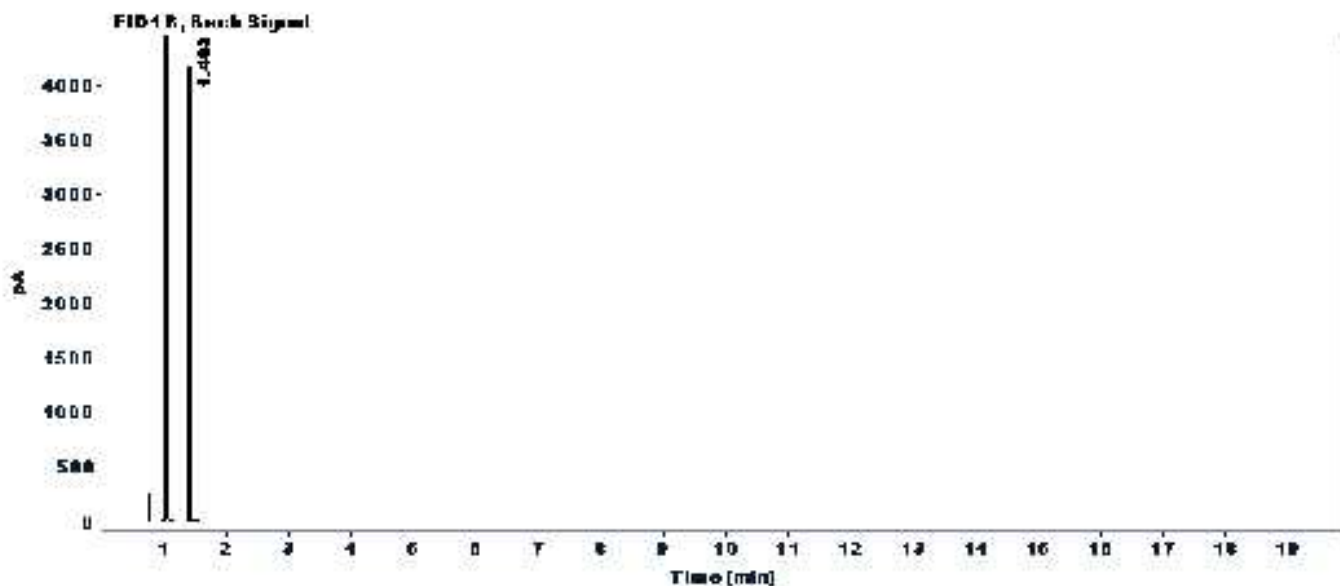
COA Form
Revision 3 (3/2015)

Print Date: 02/08/23

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

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



Signal: FID1 B, Back Signal

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

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



Reagent

MSV_nButylAcr_00005

CERTIFICATE OF ANALYSIS

n-Butyl acrylate

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

Analytical Test	Value
% PURITY (GC/FID)	99.5

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

Certified By:



Kristin R Jones

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



COA Form
Revision 3 (3/2015)

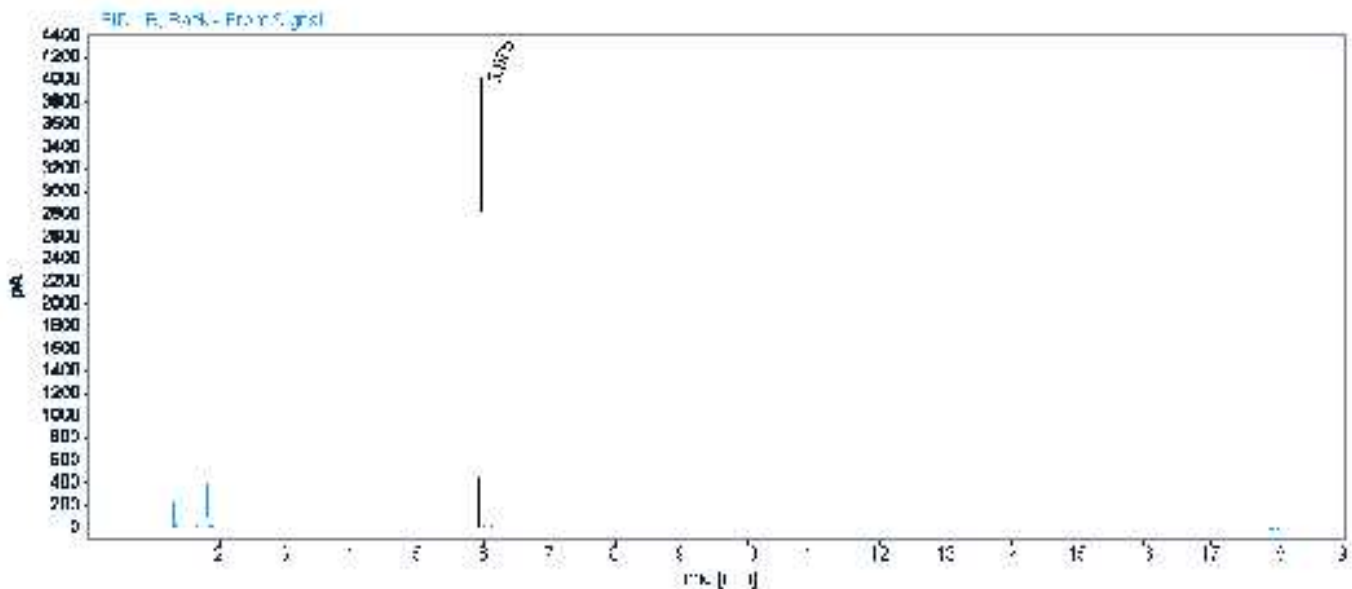
Print Date: 01/26/23

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

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

Location: 204
Injection Vol: 1.000
Of Injections: 1



Signal: FID1 B, Back - Front Signal

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

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



Reagent

MSV_Q_Ketones_00187



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

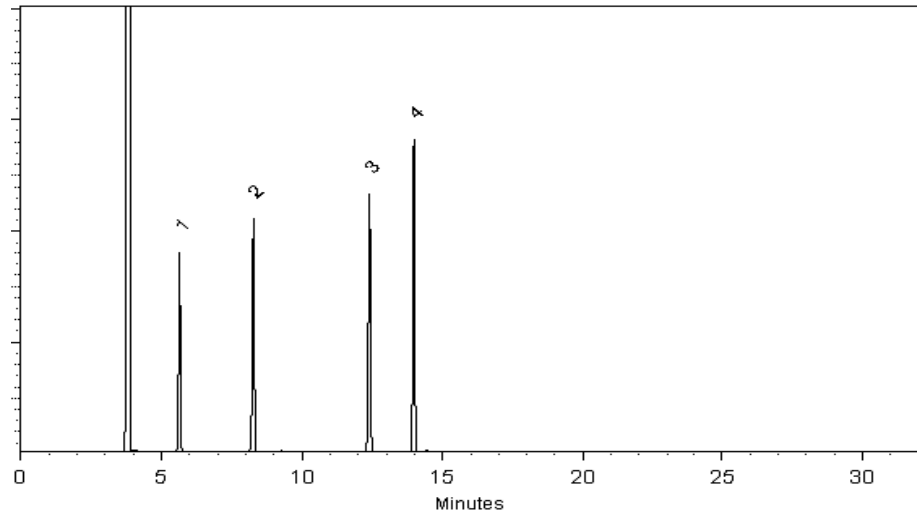
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



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


Bryan Snyder - Operations Tech I

Date Mixed: 14-Feb-2023

Balance Serial # 1128342314


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Feb-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_Q_Ketones_00191



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

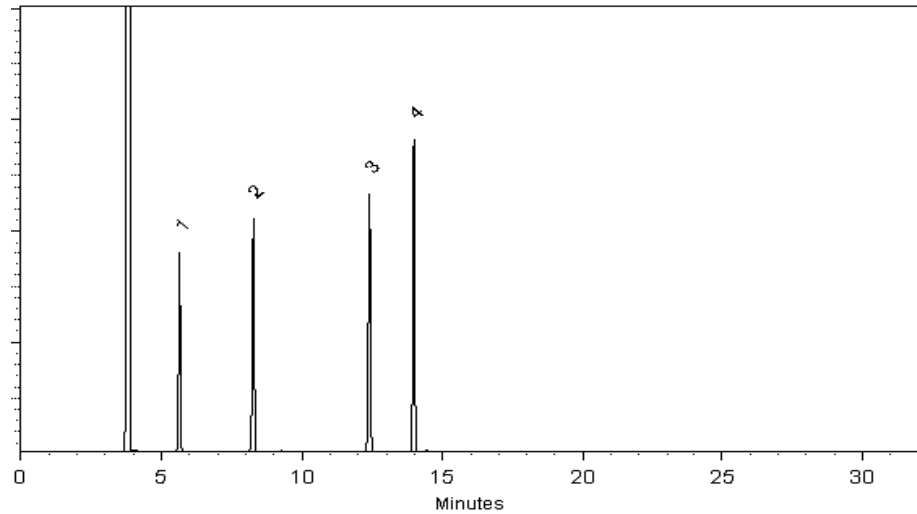
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



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

Bryan Snyder - Operations Tech I

Date Mixed: 14-Feb-2023

Balance Serial # 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Feb-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_QC_2K_GAS_00218



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:

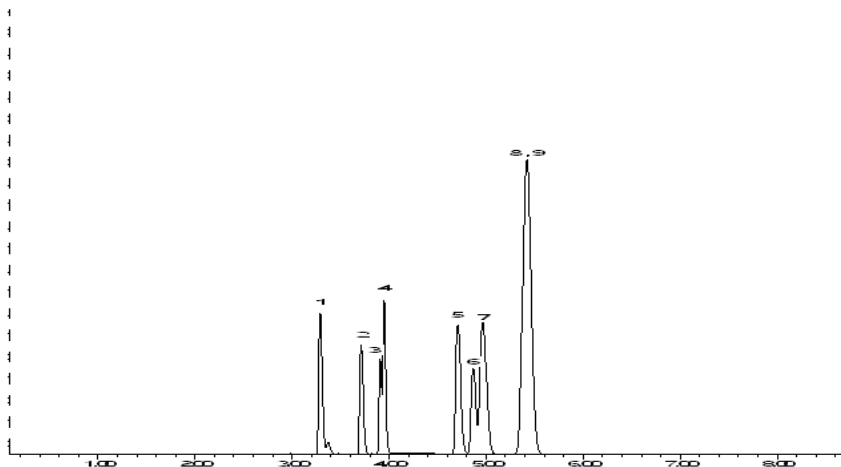
200°C

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_00223



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:

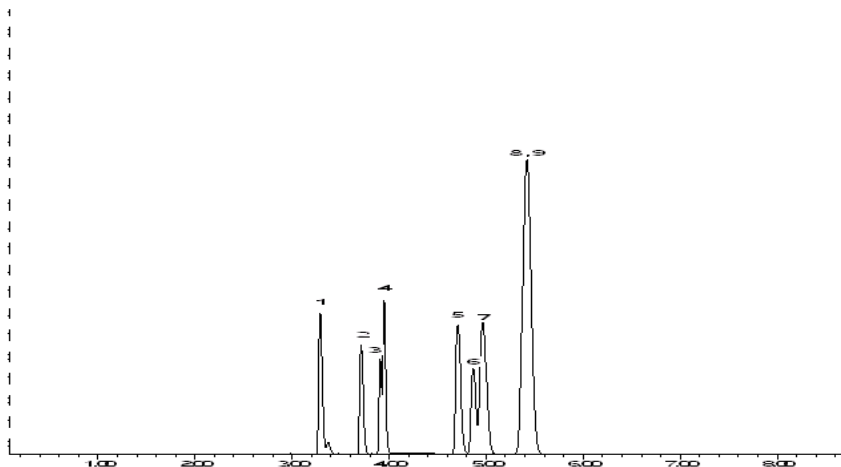
200°C

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:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_2CLEVE_00183



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Tech Tips:

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

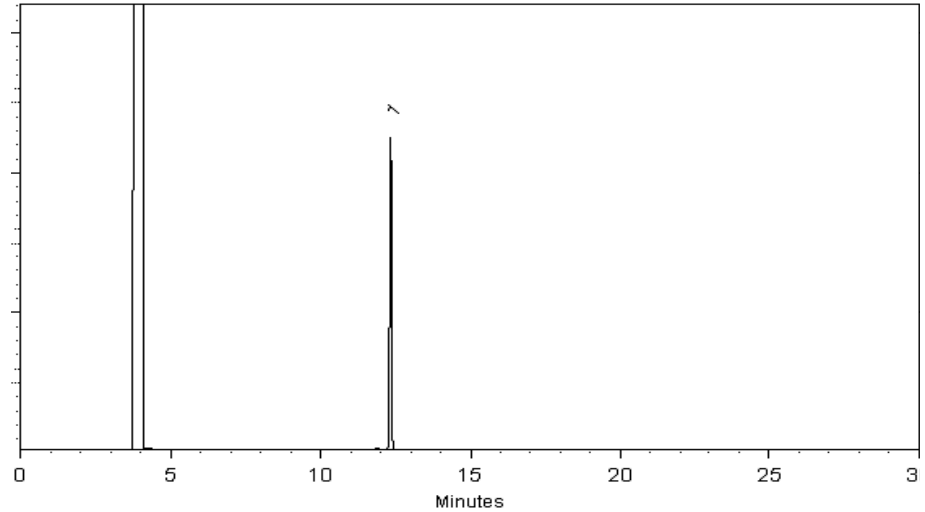
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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

Russ Bookhamer - Operations Technician I

Date Mixed: 26-Apr-2023

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_Ketones_00166



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

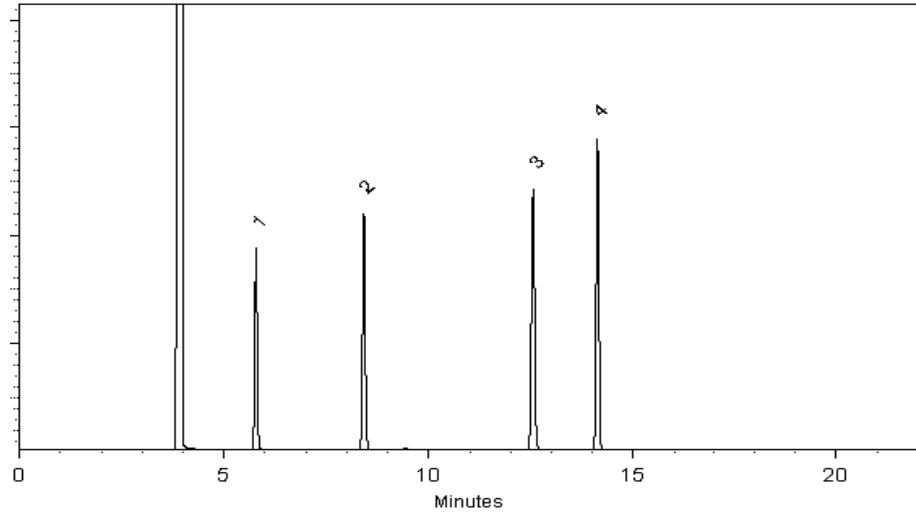
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



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Bethany Lowery

Bethany Lowery - Operations Tech I

Date Mixed: 12-Jan-2023

Balance Serial # B251644995

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_Ketones_00171



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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

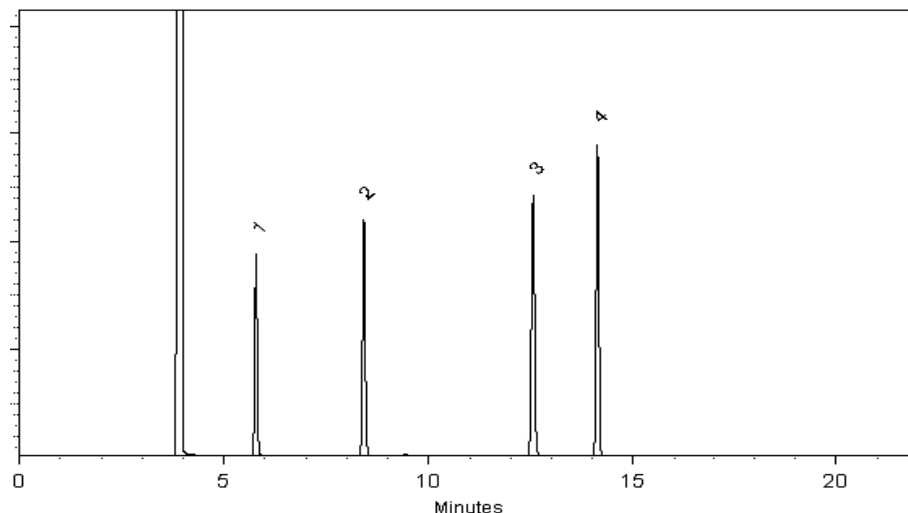
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



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

Bethany Lowery

Bethany Lowery - Operations Tech I

Date Mixed: 12-Jan-2023

Balance Serial # B251644995

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_PentaCL_00048



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom Pentachloroethane Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

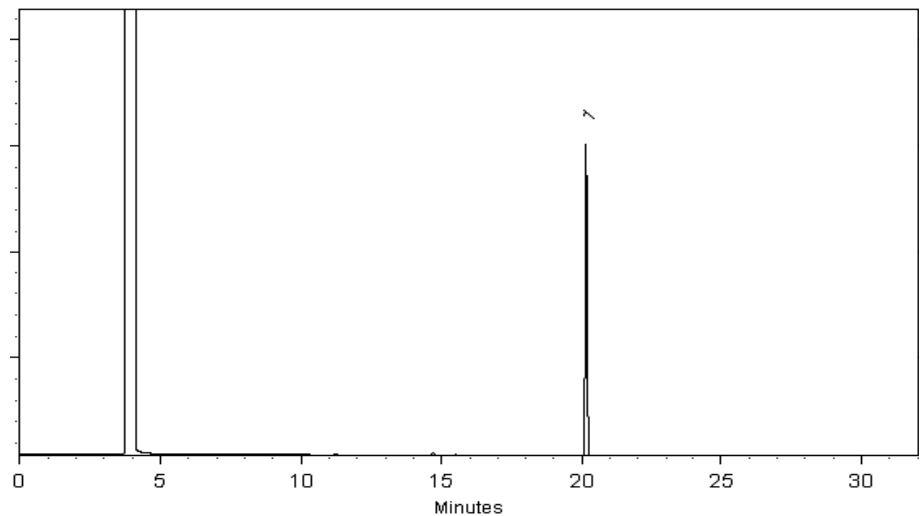
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Nick Yaw
Nick Yaw - Operations Tech I

Christie Mills
Christie Mills - Operations Technician II

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

Date Passed: 20-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_SMFreon_00039



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)

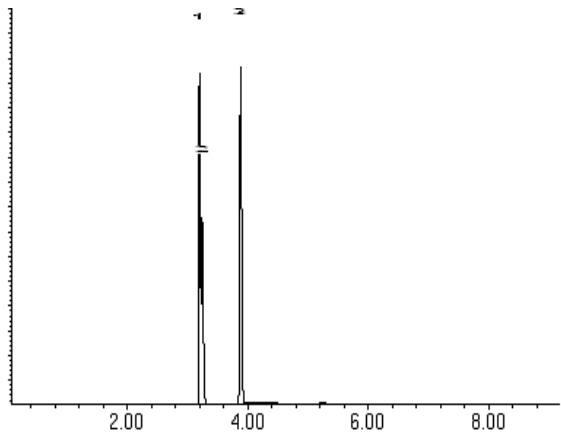
Carrier Gas:
helium-constant flow 2.0 mL/min.

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 - Mix Technician

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


Christie Mills - Operations Technician II

Date Passed: 02-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Method 8260D

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Matrix: Water

Level: Low

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

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
HD-QC1-0/1-4	410-177863-1	109	105	98	94
HD-QC1-0/1-3	410-177863-2	113	110	101	102
HD-MW-88-0/1-0	410-177863-3	114	111	97	95
HD-MW-101S-0/1-0	410-177863-4	114	112	94	91
HD-MW-101D-0/1-0	410-177863-5	113	105	100	101
HD-MW-6-0/1-0	410-177863-6	105	102	100	99
HD-MW-5-0/1-0	410-177863-7	115	112	93	94
	MB 410-525333/6	111	108	96	97
	LCS 410-525333/4	106	103	100	98

	<u>QC LIMITS</u>
DBFM = Dibromofluoromethane (Surr)	80-120
DCA = 1,2-Dichloroethane-d4 (Surr)	80-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	80-120

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: WL07X03.D

Lab ID: LCS 410-525333/4

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	19.0	95	79-120	
1,1,1-Trichloroethane	20.0	18.5	93	73-120	
1,1,2,2-Tetrachloroethane	20.0	19.3	96	72-120	
1,1,2-Trichloroethane	20.0	19.3	96	80-120	
1,1-Dichloroethane	20.0	19.5	97	80-120	
1,1-Dichloroethene	20.0	18.6	93	80-131	
1,2-Dibromoethane (EDB)	20.0	19.0	95	77-120	
1,2-Dichloroethane	20.0	18.9	95	73-124	
1,2-Dichloropropane	20.0	18.2	91	80-120	
2-Butanone (MEK)	250	225	90	59-135	
2-Hexanone	250	250	100	56-135	
4-Methyl-2-pentanone (MIBK)	250	255	102	62-133	
Acetone	250	319	128	57-143	
Benzene	20.0	18.7	93	80-120	
Bromochloromethane	20.0	20.6	103	80-120	
Bromodichloromethane	20.0	18.1	91	71-120	
Bromoform	20.0	18.5	92	51-120	
Bromomethane	20.0	15.8	79	53-128	
Carbon disulfide	20.0	16.6	83	65-128	
Carbon tetrachloride	20.0	17.9	90	64-134	
Chlorobenzene	20.0	18.8	94	80-120	
Chloroethane	20.0	17.8	89	55-123	
Chloroform	20.0	18.8	94	80-120	
Chloromethane	20.0	13.9	69	39-134	
cis-1,2-Dichloroethene	20.0	19.3	96	80-125	
cis-1,3-Dichloropropene	20.0	16.0	80	75-120	
Dibromochloromethane	20.0	19.1	95	71-120	
Ethylbenzene	20.0	17.7	89	80-120	
Methyl tert-butyl ether	20.0	17.0	85	69-122	
Methylene Chloride	20.0	18.8	94	80-120	
Styrene	20.0	17.3	86	80-120	
Tetrachloroethene	20.0	18.1	90	80-120	
Toluene	20.0	18.5	93	80-120	
trans-1,2-Dichloroethene	20.0	20.7	104	80-126	
trans-1,3-Dichloropropene	20.0	16.8	84	67-120	
Trichloroethene	20.0	17.6	88	80-120	
Vinyl chloride	20.0	13.5	67	56-120	
Xylenes, Total	60.0	53.1	89	80-120	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Lab File ID: WL07X05.D

Lab Sample ID: MB 410-525333/6

Matrix: Water

Heated Purge: (Y/N) N

Instrument ID: 9137

Date Analyzed: 07/07/2024 21:15

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 410-525333/4	WL07X03.D	07/07/2024 20:31
HD-QC1-0/1-4	410-177863-1	WL07X09.D	07/07/2024 22:42
HD-QC1-0/1-3	410-177863-2	WL07X10.D	07/07/2024 23:04
HD-MW-88-0/1-0	410-177863-3	WL07X14.D	07/08/2024 00:31
HD-MW-101S-0/1-0	410-177863-4	WL07X15.D	07/08/2024 00:53
HD-MW-101D-0/1-0	410-177863-5	WL07X16.D	07/08/2024 01:15
HD-MW-6-0/1-0	410-177863-6	WL07X17.D	07/08/2024 01:37
HD-MW-5-0/1-0	410-177863-7	WL07X18.D	07/08/2024 01:59

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

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Lab File ID: WU13T01.D

BFB Injection Date: 06/03/2024

Instrument ID: 9137

BFB Injection Time: 17:08

Analysis Batch No.: 513039

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	48.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.9
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	91.3
175	5.0 - 9.0 % of mass 174	6.5 (7.2) 1
176	95.0 - 101.0 % of mass 174	88.8 (97.2) 1
177	5.0 - 9.0 % of mass 176	5.9 (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 410-513039/3	WU03X02.D	06/03/2024	17:42
	IC 410-513039/4	WU03X03.D	06/03/2024	18:04
	IC 410-513039/5	WU03X04.D	06/03/2024	18:26
	IC 410-513039/6	WU03X05.D	06/03/2024	18:48
	IC 410-513039/7	WU03X06.D	06/03/2024	19:10
	IC 410-513039/8	WU03X07.D	06/03/2024	19:32
	IC 410-513039/12	WU03X11.D	06/03/2024	21:00
	IC 410-513039/13	WU03X12.D	06/03/2024	21:22
	IC 410-513039/14	WU03X13.D	06/03/2024	21:44
	IC 410-513039/15	WU03X14.D	06/03/2024	22:06
	ICIS 410-513039/16	WU03X15.D	06/03/2024	22:27
	IC 410-513039/17	WU03X16.D	06/03/2024	22:49
	IC 410-513039/18	WU03X17.D	06/03/2024	23:11
	ICV 410-513039/26	WU03X25.D	06/04/2024	2:07

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

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Lab File ID: WL07T01.D

BFB Injection Date: 07/07/2024

Instrument ID: 9137

BFB Injection Time: 19:32

Analysis Batch No.: 525333

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.2
75	30.0 - 60.0 % of mass 95	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	0.0 (0.0) 1
174	Greater than 50% of mass 95	85.7
175	5.0 - 9.0 % of mass 174	6.3 (7.3) 1
176	95.0 - 101.0 % of mass 174	82.9 (96.6) 1
177	5.0 - 9.0 % of mass 176	5.4 (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 410-525333/3	WL07X02.D	07/07/2024	20:09
	LCS 410-525333/4	WL07X03.D	07/07/2024	20:31
	MB 410-525333/6	WL07X05.D	07/07/2024	21:15
HD-QC1-0/1-4	410-177863-1	WL07X09.D	07/07/2024	22:42
HD-QC1-0/1-3	410-177863-2	WL07X10.D	07/07/2024	23:04
HD-MW-88-0/1-0	410-177863-3	WL07X14.D	07/08/2024	0:31
HD-MW-101S-0/1-0	410-177863-4	WL07X15.D	07/08/2024	0:53
HD-MW-101D-0/1-0	410-177863-5	WL07X16.D	07/08/2024	1:15
HD-MW-6-0/1-0	410-177863-6	WL07X17.D	07/08/2024	1:37
HD-MW-5-0/1-0	410-177863-7	WL07X18.D	07/08/2024	1:59

FORM VIII

Job No.: 410-177863-1

Sample No.: ICIS 410-513039/16

Date Analyzed: 06/03/2024 22:27

Instrument ID: 9137

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

Lab File ID (Standard): WU03X15.D

Heated Purge: (Y/N) N

Calibration ID: 62399

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		293746	4.45	1028435	7.94	766952	11.35
UPPER LIMIT		587492	4.95	2056870	8.44	1533904	11.85
LOWER LIMIT		146873	3.95	514218	7.44	383476	10.85
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-513039/26		306095	4.52	946690	7.93	708039	11.35
CCVIS 410-525333/3		294201	4.45	1004794	7.94	742948	11.36

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.: 410-177863-1

Sample No.: ICIS 410-513039/16

Date Analyzed: 06/03/2024 22:27

GC Column: R-624SilMS 30m

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration ID: 62399

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		455968	13.22				
UPPER LIMIT		911936	13.72				
LOWER LIMIT		227984	12.72				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-513039/26		427433	13.22				
CCVIS 410-525333/3		444656	13.23				

DCBd4 = 1,4-Dichlorobenzene-d4

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

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

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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1
 Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-525333/3 Date Analyzed: 07/07/2024 20:09

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): WL07X02.D Heated Purge: (Y/N) N

Calibration ID: 62399

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		294201	4.45	1004794	7.94	742948	11.36
UPPER LIMIT		588402	4.95	2009588	8.44	1485896	11.86
LOWER LIMIT		147101	3.95	502397	7.44	371474	10.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-525333/4		298572	4.48	948005	7.93	694987	11.36
MB 410-525333/6		288080	4.44	844118	7.94	615822	11.36
410-177863-1	HD-QC1-0/1-4	283372	4.47	785370	7.93	548116	11.36
410-177863-2	HD-QC1-0/1-3	269887	4.47	789442	7.93	550528	11.36
410-177863-3	HD-MW-88-0/1-0	244593	4.46	735030	7.93	535650	11.36
410-177863-4	HD-MW-101S-0/1-0	238154	4.43	727537	7.94	510641	11.36
410-177863-5	HD-MW-101D-0/1-0	235091	4.45	741800	7.94	517720	11.36
410-177863-6	HD-MW-6-0/1-0	243406	4.49	764674	7.94	528329	11.36
410-177863-7	HD-MW-5-0/1-0	245061	4.45	705437	7.93	566098	11.36

TBA_d10 = t-Butyl alcohol-d₁₀ (IS)

FB = Fluorobenzene (IS)

CBZ_d5 = Chlorobenzene-d₅ (IS)

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

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1
 Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-525333/3 Date Analyzed: 07/07/2024 20:09

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): WL07X02.D Heated Purge: (Y/N) N

Calibration ID: 62399

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		444656	13.23				
UPPER LIMIT		889312	13.73				
LOWER LIMIT		222328	12.73				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-525333/4		430990	13.23				
MB 410-525333/6		371396	13.23				
410-177863-1	HD-QC1-0/1-4	364546	13.23				
410-177863-2	HD-QC1-0/1-3	375475	13.23				
410-177863-3	HD-MW-88-0/1-0	342989	13.23				
410-177863-4	HD-MW-101S-0/1-0	315968	13.23				
410-177863-5	HD-MW-101D-0/1-0	342090	13.23				
410-177863-6	HD-MW-6-0/1-0	353202	13.23				
410-177863-7	HD-MW-5-0/1-0	330079	13.23				

DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Client Sample ID: HD-QC1-0/1-4

Lab Sample ID: 410-177863-1

Matrix: Water

Lab File ID: WL07X09.D

Analysis Method: 8260D

Date Collected: 06/25/2024 14:00

Sample wt/vol: 5(mL)

Date Analyzed: 07/07/2024 22:42

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 525333

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	2.6	J ^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30
108-88-3	Toluene	0.46	J	1.0	0.30

FORM I

GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No. :

Client Sample ID: HD-QC1-0/1-4

Lab Sample ID: 410-177863-1

Matrix: Water

Lab File ID: WL07X09.D

Analysis Method: 8260D

Date Collected: 06/25/2024 14:00

Sample wt/vol: 5 (mL)

Date Analyzed: 07/07/2024 22:42

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 525333

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X09.D
 Lims ID: 410-177863-A-1
 Client ID: HD-QC1-0/1-4
 Sample Type: Client
 Inject. Date: 07-Jul-2024 22:42:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0118658-010
 Misc. Info.: 410-177863-A-1
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Jul-2024 15:13:57 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1632

First Level Reviewer: FQ4L

Date: 08-Jul-2024 15:13:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.242				ND	7
8 Vinyl chloride	62		2.364				ND	
11 Bromomethane	94		2.733				ND	
12 Chloroethane	64		2.823				ND	
21 1,1-Dichloroethene	96		3.750				ND	
20 Acetone	58	3.821	3.782	0.039	68	2411	2.64	
26 Carbon disulfide	76		4.090				ND	7
* 32 t-Butyl alcohol-d10 (IS)	65	4.469	4.453	0.016	1	283372	250.0	
30 Methylene Chloride	84		4.456				ND	
36 Methyl tert-butyl ether	73		4.848				ND	
35 trans-1,2-Dichloroethene	96		4.854				ND	
38 1,1-Dichloroethane	63		5.528				ND	
44 2-Butanone (MEK)	43		6.324				ND	U
43 cis-1,2-Dichloroethene	96		6.353				ND	
50 Chlorobromomethane	128		6.683				ND	
52 Chloroform	83		6.834				ND	
\$ 54 Dibromofluoromethane (Surr)	113	7.043	7.046	-0.003	92	212384	54.3	
55 1,1,1-Trichloroethane	97		7.062				ND	
58 Carbon tetrachloride	117		7.270				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.498	7.502	-0.004	69	51275	52.3	
61 Benzene	78		7.537				ND	7
62 1,2-Dichloroethane	62		7.611				ND	
* 65 Fluorobenzene (IS)	96	7.928	7.944	-0.016	99	785370	50.0	
68 Trichloroethene	95		8.413				ND	
71 1,2-Dichloropropane	63		8.756				ND	
77 Dichlorobromomethane	83		9.090				ND	
81 cis-1,3-Dichloropropene	75		9.623				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.802				ND	
\$ 84 Toluene-d8 (Surr)	98	9.921	9.921	0.000	93	734977	49.0	
85 Toluene	92	9.998	9.998	0.000	96	4948	0.4648	
86 trans-1,3-Dichloropropene	75		10.252				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 1,1,2-Trichloroethane	97		10.451				ND	
90 Tetrachloroethene	166		10.531				ND	
94 2-Hexanone	43		10.666				ND	
96 Chlorodibromomethane	129		10.820				ND	
98 Ethylene Dibromide	107		10.929				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.355	11.355	0.000	85	548116	50.0	
102 Chlorobenzene	112		11.381				ND	
104 1,1,1,2-Tetrachloroethane	131		11.465				ND	
105 Ethylbenzene	91		11.465				ND	7
106 m-Xylene & p-Xylene	106		11.580				ND	7
108 o-Xylene	106		11.907				ND	7
109 Styrene	104		11.923				ND	
110 Bromoform	173		12.081				ND	7
\$ 114 4-Bromofluorobenzene (Surr)	95	12.347	12.347	0.000	91	255504	46.9	
116 1,1,2,2-Tetrachloroethane	83		12.450				ND	
* 133 1,4-Dichlorobenzene-d4	152	13.226	13.226	0.000	95	364546	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00029

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X09.D

Injection Date: 07-Jul-2024 22:42:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: 410-177863-A-1

Lab Sample ID: 410-177863-1

Worklist Smp#: 10

Client ID: HD-QC1-0/1-4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

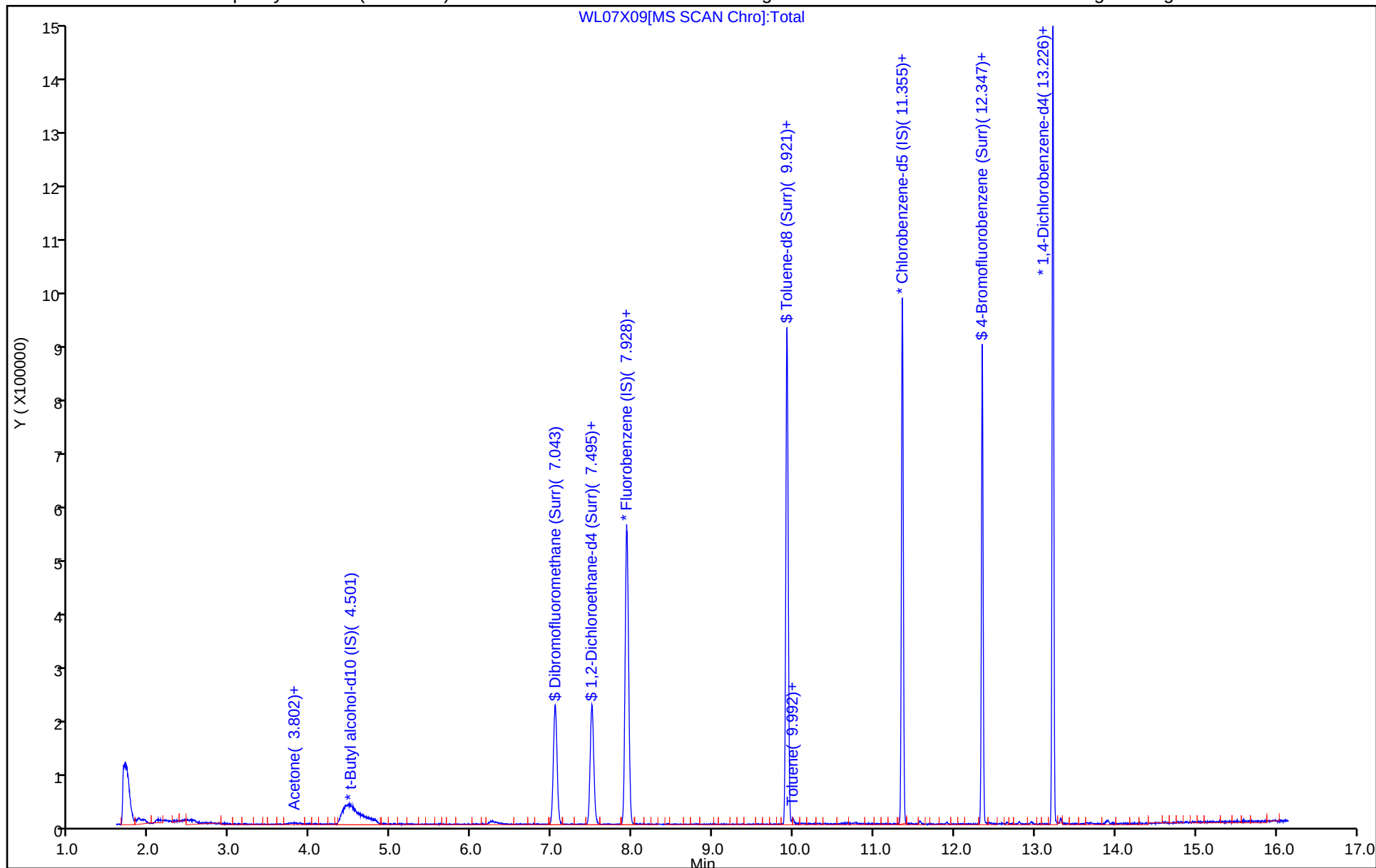
ALS Bottle#: 9

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X09.D
Lims ID: 410-177863-A-1
Client ID: HD-QC1-0/1-4
Sample Type: Client
Inject. Date: 07-Jul-2024 22:42:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118658-010
Misc. Info.: 410-177863-A-1
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2024 15:13:57 Calib Date: 03-Jun-2024 23:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: FQ4L

Date: 08-Jul-2024 15:13:57

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	54.3	108.57
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	52.3	104.59
\$ 84 Toluene-d8 (Surr)	50.0	49.0	97.96
\$ 114 4-Bromofluorobenzene (Surr)	50.0	46.9	93.78

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X09.D

Injection Date: 07-Jul-2024 22:42:30

Instrument ID: 9137

Lims ID: 410-177863-A-1

Lab Sample ID: 410-177863-1

Client ID: HD-QC1-0/1-4

Operator ID: gaw91131

ALS Bottle#: 9

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

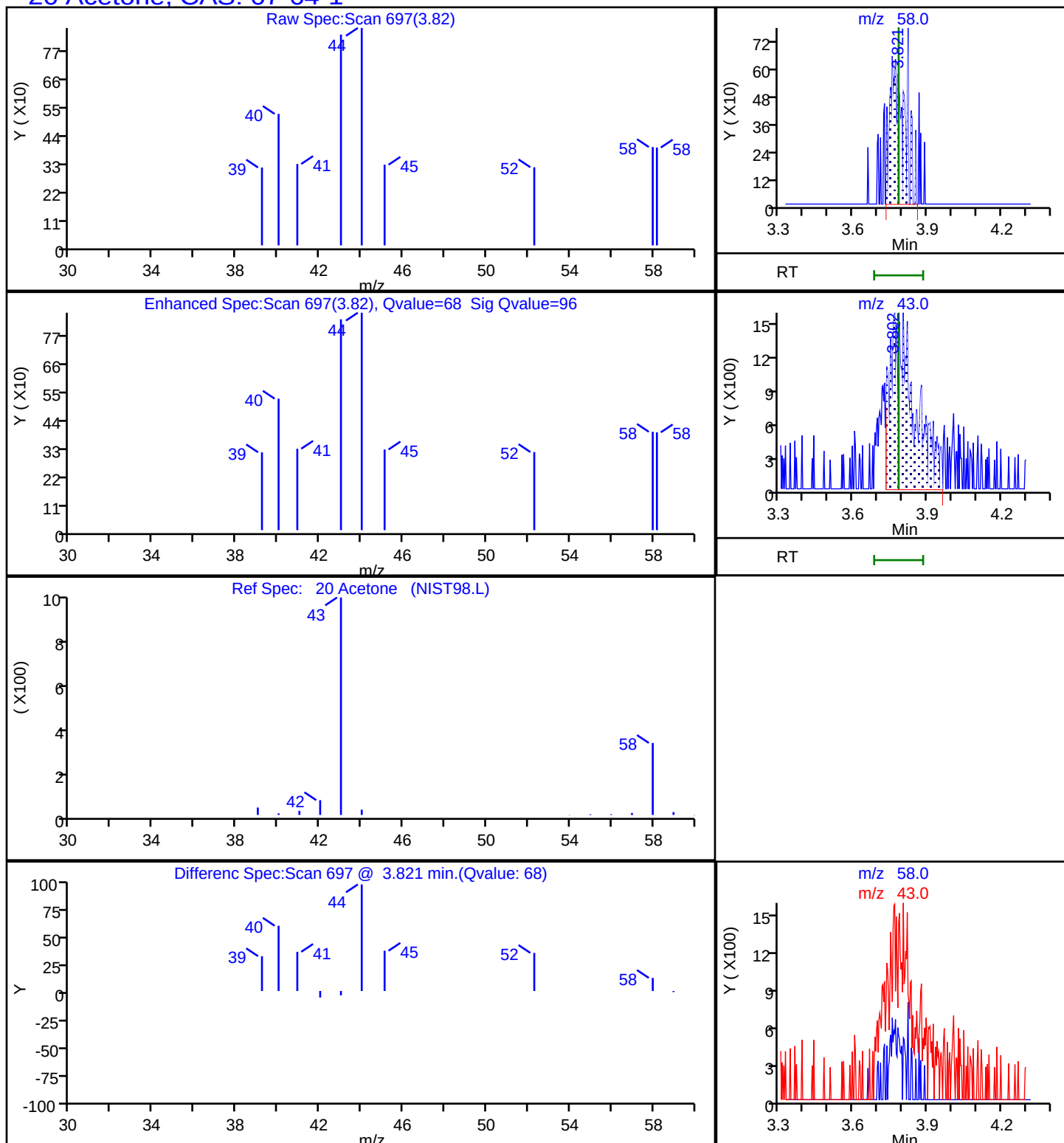
Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X09.D

Injection Date: 07-Jul-2024 22:42:30

Instrument ID: 9137

Lims ID: 410-177863-A-1

Lab Sample ID: 410-177863-1

Client ID: HD-QC1-0/1-4

Operator ID: gaw91131

ALS Bottle#: 9

Worklist Smp#: 10

Purge Vol: 5.000 mL

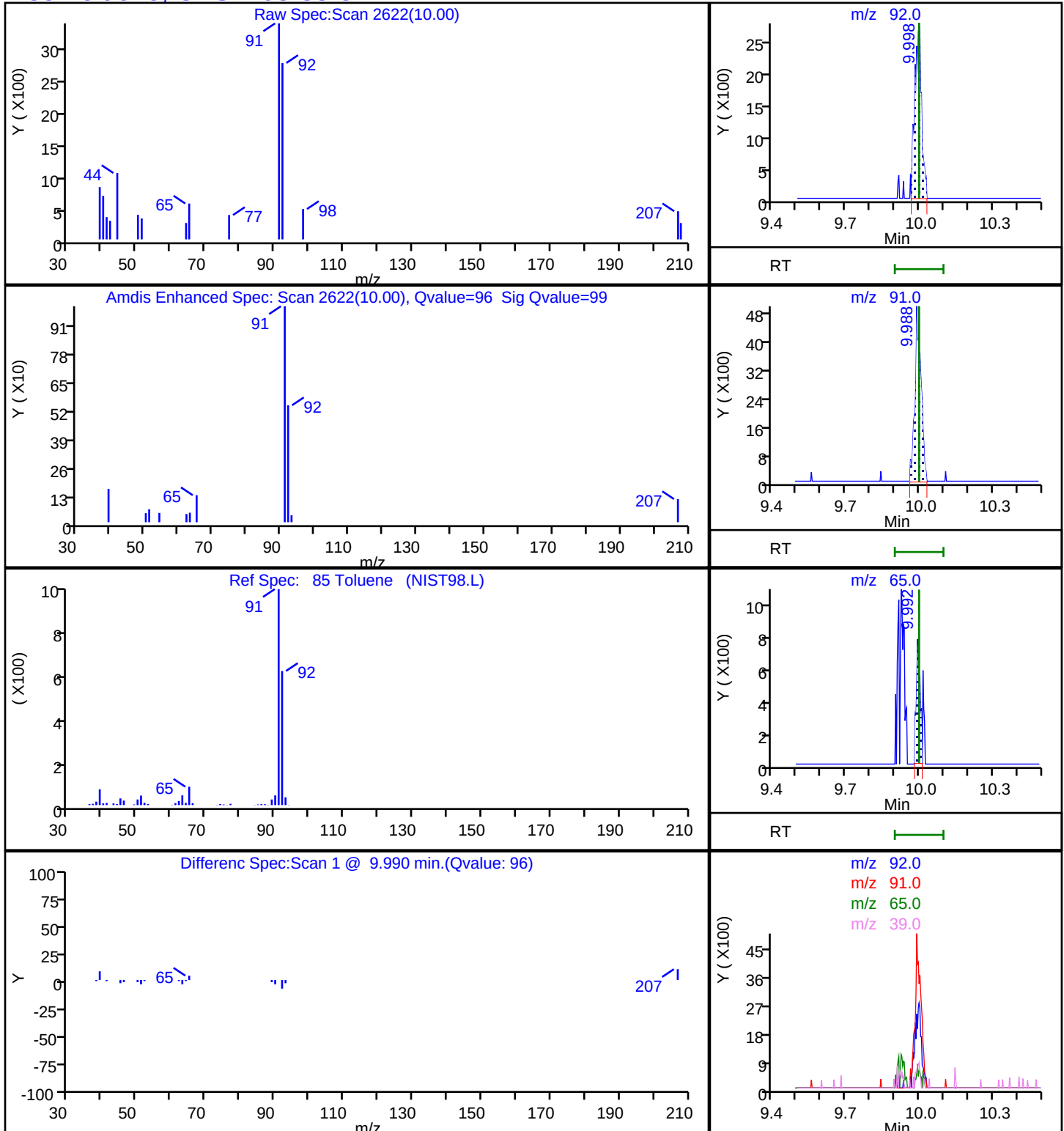
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

MS Quad

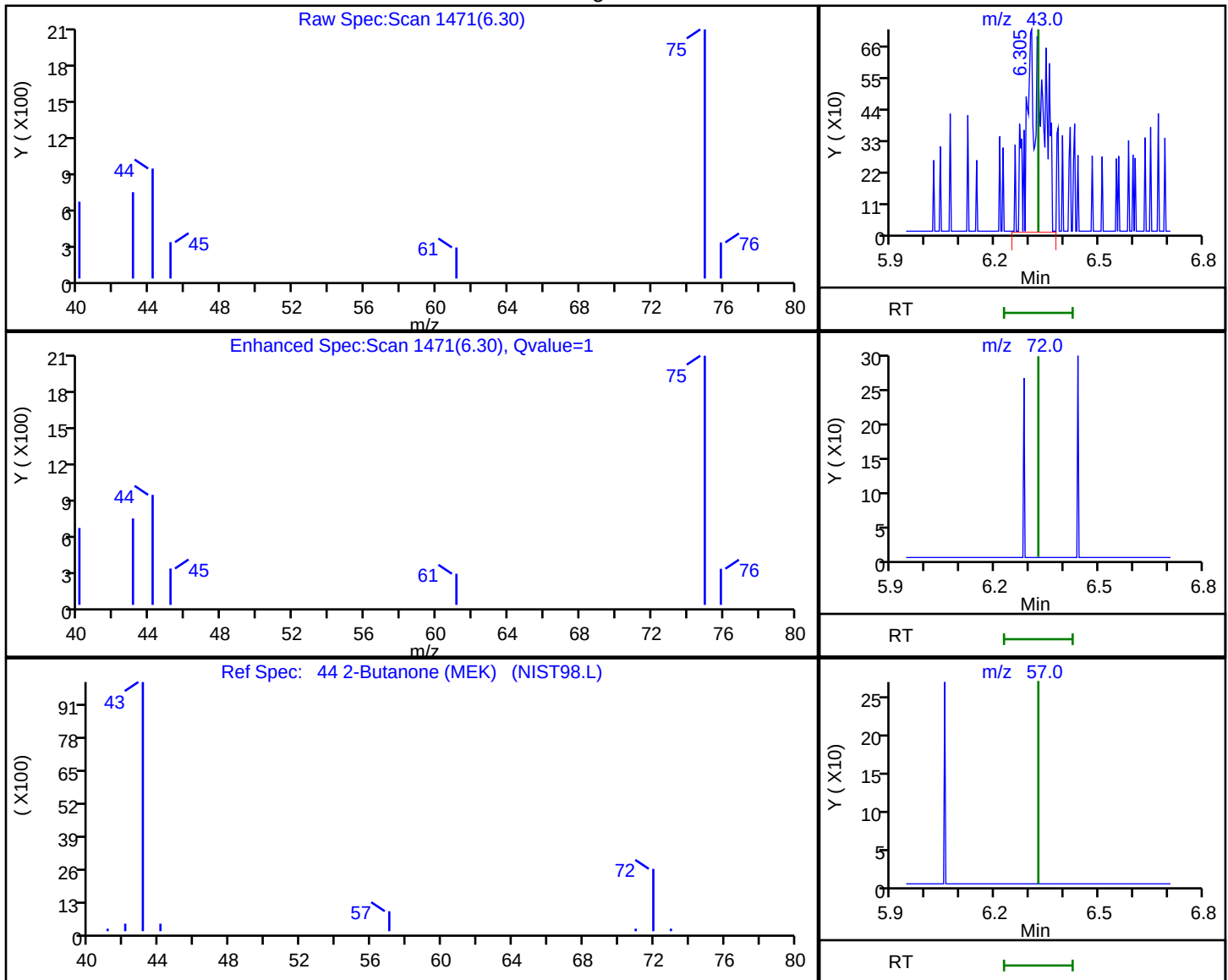
85 Toluene, CAS: 108-88-3

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X09.D
Injection Date: 07-Jul-2024 22:42:30 Instrument ID: 9137
Lims ID: 410-177863-A-1 Lab Sample ID: 410-177863-1
Client ID: HD-QC1-0/1-4
Operator ID: gaw91131 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.30	43.00	2460	0.628096
6.32	72.00	0	
6.32	57.00	0	

Reviewer: FQ4L, 08-Jul-2024 15:13:42 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Client Sample ID: HD-QC1-0/1-3

Lab Sample ID: 410-177863-2

Matrix: Water

Lab File ID: WL07X10.D

Analysis Method: 8260D

Date Collected: 06/25/2024 14:05

Sample wt/vol: 5 (mL)

Date Analyzed: 07/07/2024 23:04

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 525333

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	2.0	J ^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30
108-88-3	Toluene	0.43	J	1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Client Sample ID: HD-QC1-0/1-3

Lab Sample ID: 410-177863-2

Matrix: Water

Lab File ID: WL07X10.D

Analysis Method: 8260D

Date Collected: 06/25/2024 14:05

Sample wt/vol: 5 (mL)

Date Analyzed: 07/07/2024 23:04

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 525333

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	113		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\9137\20240707-118658.b\WL07X10.D
 Lims ID: 410-177863-A-2
 Client ID: HD-QC1-0/1-3
 Sample Type: Client
 Inject. Date: 07-Jul-2024 23:04:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0118658-011
 Misc. Info.: 410-177863-A-2
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Jul-2024 15:49:10 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1632

First Level Reviewer: FQ4L

Date: 08-Jul-2024 15:49:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.242				ND	7
8 Vinyl chloride	62		2.364				ND	
11 Bromomethane	94		2.733				ND	
12 Chloroethane	64		2.823				ND	
21 1,1-Dichloroethene	96		3.750				ND	
20 Acetone	58	3.757	3.782	-0.025	46	1776	2.05	
26 Carbon disulfide	76		4.090				ND	7
* 32 t-Butyl alcohol-d10 (IS)	65	4.469	4.453	0.016	12	269887	250.0	
30 Methylene Chloride	84		4.456				ND	
36 Methyl tert-butyl ether	73		4.848				ND	
35 trans-1,2-Dichloroethene	96		4.854				ND	
38 1,1-Dichloroethane	63		5.528				ND	
44 2-Butanone (MEK)	43		6.324				ND	U
43 cis-1,2-Dichloroethene	96		6.353				ND	
50 Chlorobromomethane	128		6.683				ND	
52 Chloroform	83		6.834				ND	
\$ 54 Dibromofluoromethane (Surr)	113	7.046	7.046	0.000	93	221292	56.3	
55 1,1,1-Trichloroethane	97		7.062				ND	
58 Carbon tetrachloride	117		7.270				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.495	7.502	-0.007	69	54233	55.0	
61 Benzene	78		7.537				ND	7
62 1,2-Dichloroethane	62		7.611				ND	
* 65 Fluorobenzene (IS)	96	7.931	7.944	-0.013	99	789442	50.0	
68 Trichloroethene	95		8.413				ND	
71 1,2-Dichloropropane	63		8.756				ND	
77 Dichlorobromomethane	83		9.090				ND	
81 cis-1,3-Dichloropropene	75		9.623				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.802				ND	
\$ 84 Toluene-d8 (Surr)	98	9.921	9.921	0.000	95	762547	50.6	
85 Toluene	92	9.995	9.998	-0.003	98	4622	0.4322	
86 trans-1,3-Dichloropropene	75		10.252				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 1,1,2-Trichloroethane	97		10.451				ND	
90 Tetrachloroethene	166		10.531				ND	
94 2-Hexanone	43		10.666				ND	
96 Chlorodibromomethane	129		10.820				ND	
98 Ethylene Dibromide	107		10.929				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.355	11.355	0.000	85	550528	50.0	
102 Chlorobenzene	112		11.381				ND	
104 1,1,1,2-Tetrachloroethane	131		11.465				ND	
105 Ethylbenzene	91		11.465				ND	7
106 m-Xylene & p-Xylene	106		11.580				ND	7
108 o-Xylene	106		11.907				ND	7
109 Styrene	104		11.923				ND	
110 Bromoform	173		12.081				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.347	12.347	0.000	91	278988	51.0	
116 1,1,2,2-Tetrachloroethane	83		12.450				ND	
* 133 1,4-Dichlorobenzene-d4	152	13.226	13.226	0.000	94	375475	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00029

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-Jul-2024 15:49:11

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X10.D

Injection Date: 07-Jul-2024 23:04:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: 410-177863-A-2

Lab Sample ID: 410-177863-2

Worklist Smp#: 11

Client ID: HD-QC1-0/1-3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

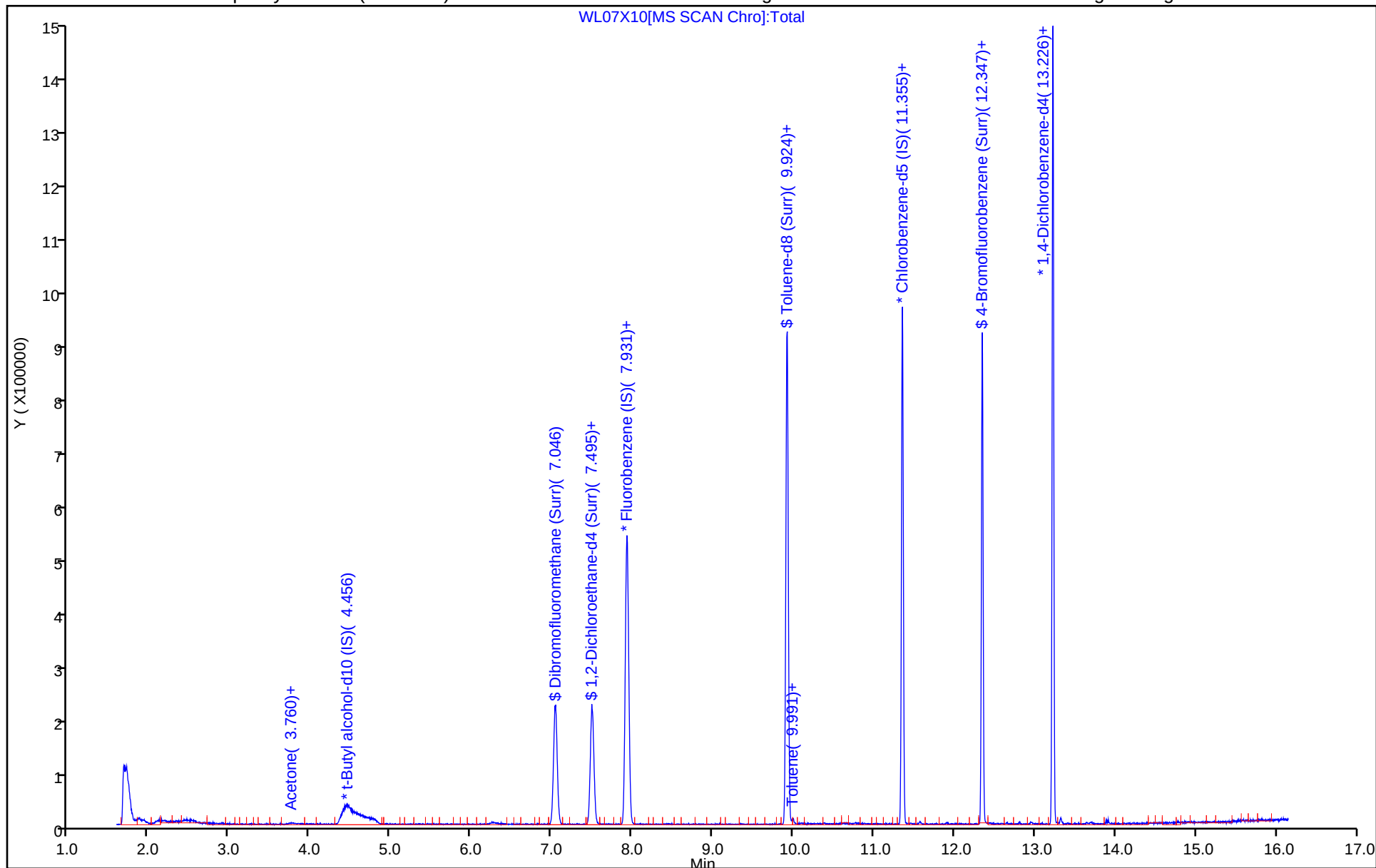
ALS Bottle#: 10

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X10.D
Lims ID: 410-177863-A-2
Client ID: HD-QC1-0/1-3
Sample Type: Client
Inject. Date: 07-Jul-2024 23:04:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118658-011
Misc. Info.: 410-177863-A-2
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2024 15:49:10 Calib Date: 03-Jun-2024 23:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: FQ4L

Date: 08-Jul-2024 15:49:10

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	56.3	112.54
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	55.0	110.05
\$ 84 Toluene-d8 (Surr)	50.0	50.6	101.18
\$ 114 4-Bromofluorobenzene (Surr)	50.0	51.0	101.95

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X10.D

Injection Date: 07-Jul-2024 23:04:30

Instrument ID: 9137

Lims ID: 410-177863-A-2

Lab Sample ID: 410-177863-2

Client ID: HD-QC1-0/1-3

Operator ID: gaw91131

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 5.000 mL

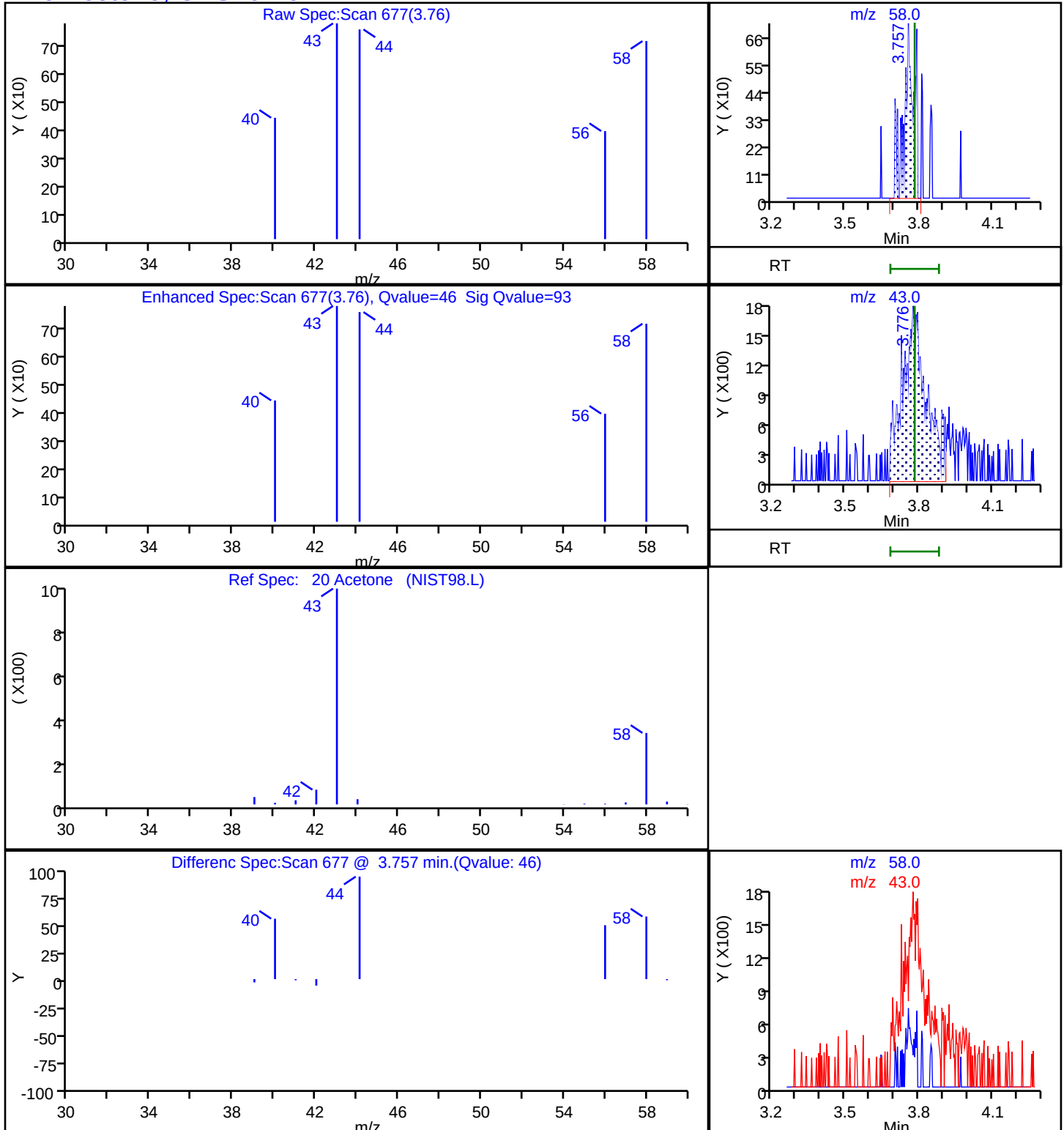
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X10.D

Injection Date: 07-Jul-2024 23:04:30

Instrument ID: 9137

Lims ID: 410-177863-A-2

Lab Sample ID: 410-177863-2

Client ID: HD-QC1-0/1-3

Operator ID: gaw91131

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 5.000 mL

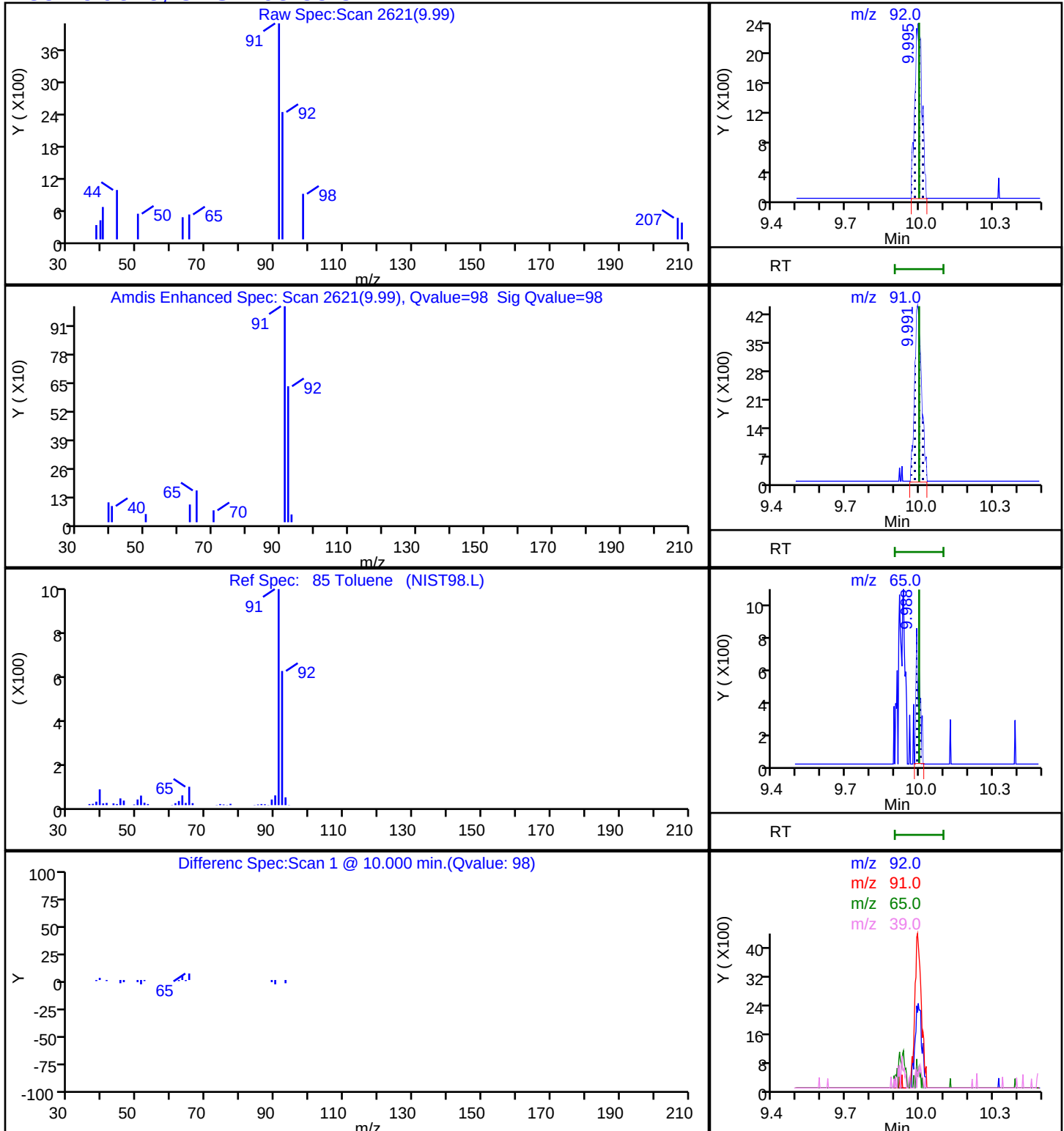
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

MS Quad

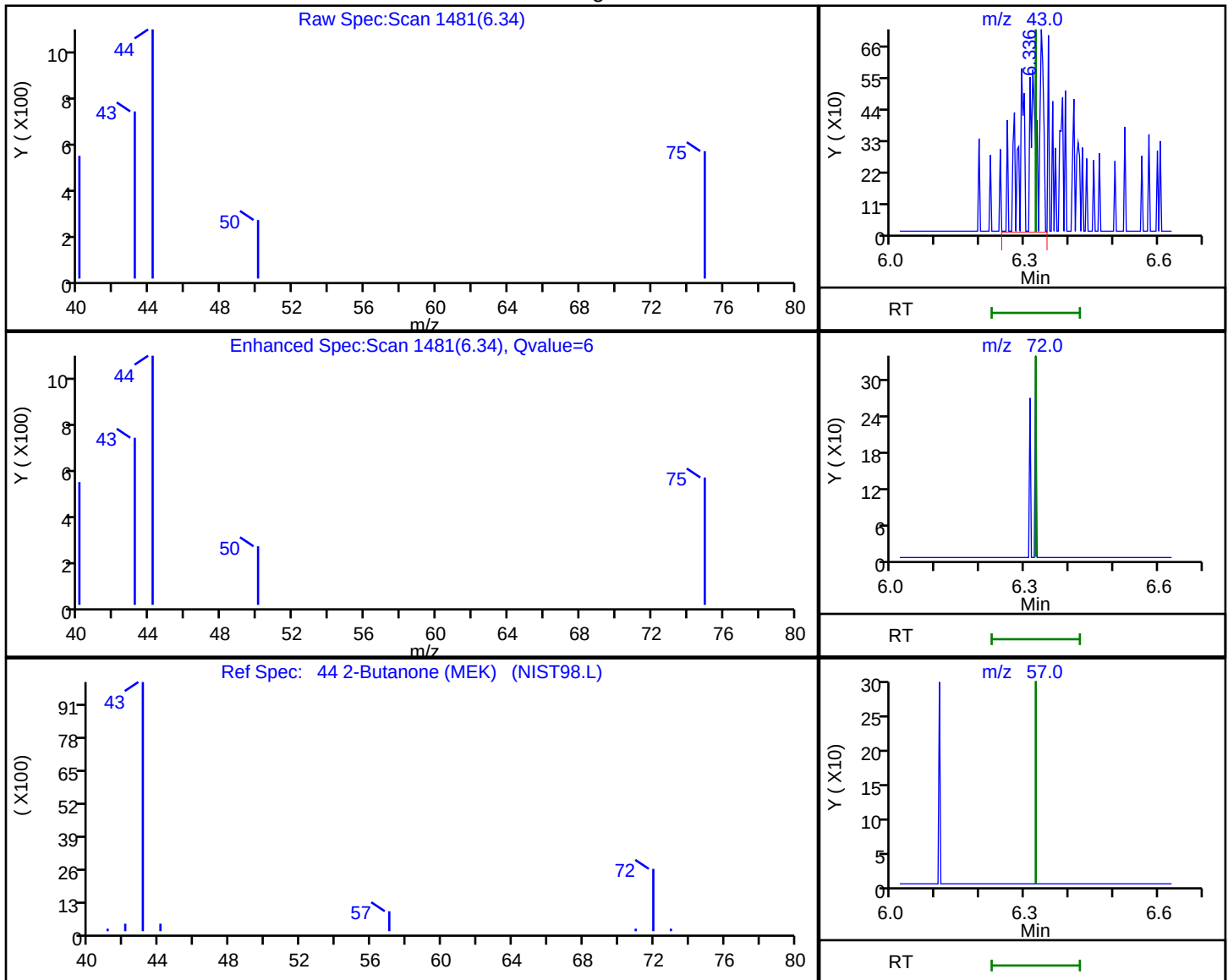
85 Toluene, CAS: 108-88-3

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X10.D
Injection Date: 07-Jul-2024 23:04:30 Instrument ID: 9137
Lims ID: 410-177863-A-2 Lab Sample ID: 410-177863-2
Client ID: HD-QC1-0/1-3
Operator ID: gaw91131 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.34	43.00	1508	0.383042
6.32	72.00	0	
6.32	57.00	0	

Reviewer: FQ4L, 08-Jul-2024 15:48:57 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.: 410-177863-1

SDG No.:

Client Sample ID: HD-MW-88-0/1-0

Lab Sample ID: 410-177863-3

Matrix: Water

Lab File ID: WL07X14.D

Analysis Method: 8260D

Date Collected: 06/25/2024 13:35

Sample wt/vol: 5(mL)

Date Analyzed: 07/08/2024 00:31

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 525333

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	0.67	J	1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	10		1.0	0.30
108-88-3	Toluene	ND		1.0	0.30

FORM I

GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No. :

Client Sample ID: HD-MW-88-0/1-0

Lab Sample ID: 410-177863-3

Matrix: Water

Lab File ID: WL07X14.D

Analysis Method: 8260D

Date Collected: 06/25/2024 13:35

Sample wt/vol: 5 (mL)

Date Analyzed: 07/08/2024 00:31

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 525333

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	1.2		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	114		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\9137\20240707-118658.b\WL07X14.D
 Lims ID: 410-177863-A-3
 Client ID: HD-MW-88-0/1-0
 Sample Type: Client
 Inject. Date: 08-Jul-2024 00:31:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0118658-015
 Misc. Info.: 410-177863-A-3
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Jul-2024 15:45:25 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1632

First Level Reviewer: FQ4L

Date: 08-Jul-2024 15:45:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.242				ND	
8 Vinyl chloride	62		2.364				ND	
11 Bromomethane	94		2.733				ND	
12 Chloroethane	64		2.823				ND	
21 1,1-Dichloroethene	96		3.750				ND	7
20 Acetone	58		3.782				ND	
26 Carbon disulfide	76		4.090				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.456	4.453	0.003	7	244593	250.0	
30 Methylene Chloride	84		4.456				ND	
36 Methyl tert-butyl ether	73		4.848				ND	
35 trans-1,2-Dichloroethene	96		4.854				ND	
38 1,1-Dichloroethane	63		5.528				ND	U
44 2-Butanone (MEK)	43		6.324				ND	U
43 cis-1,2-Dichloroethene	96	6.343	6.353	-0.010	9	3033	0.6673	
50 Chlorobromomethane	128		6.683				ND	
52 Chloroform	83		6.834				ND	7
\$ 54 Dibromofluoromethane (Surr)	113	7.036	7.046	-0.010	93	208101	56.8	
55 1,1,1-Trichloroethane	97		7.062				ND	
58 Carbon tetrachloride	117		7.270				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.498	7.502	-0.004	69	51080	55.7	
61 Benzene	78		7.537				ND	
62 1,2-Dichloroethane	62		7.611				ND	
* 65 Fluorobenzene (IS)	96	7.931	7.944	-0.013	99	735030	50.0	
68 Trichloroethene	95	8.413	8.413	0.000	92	5339	1.18	
71 1,2-Dichloropropane	63		8.756				ND	
77 Dichlorobromomethane	83		9.090				ND	
81 cis-1,3-Dichloropropene	75		9.623				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.802				ND	
\$ 84 Toluene-d8 (Surr)	98	9.924	9.921	0.003	93	708279	48.3	
85 Toluene	92		9.998				ND	
86 trans-1,3-Dichloropropene	75		10.252				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 1,1,2-Trichloroethane	97		10.451				ND	
90 Tetrachloroethene	166	10.531	10.531	0.000	96	47029	10.3	
94 2-Hexanone	43		10.666				ND	
96 Chlorodibromomethane	129		10.820				ND	
98 Ethylene Dibromide	107		10.929				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.355	11.355	0.000	85	535650	50.0	
102 Chlorobenzene	112		11.381				ND	
104 1,1,1,2-Tetrachloroethane	131		11.465				ND	
105 Ethylbenzene	91		11.465				ND	7
106 m-Xylene & p-Xylene	106		11.580				ND	
108 o-Xylene	106		11.907				ND	
109 Styrene	104		11.923				ND	
110 Bromoform	173		12.081				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.347	12.347	0.000	91	253242	47.6	
116 1,1,2,2-Tetrachloroethane	83		12.450				ND	
* 133 1,4-Dichlorobenzene-d4	152	13.226	13.226	0.000	94	342989	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00029

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-Jul-2024 15:45:26

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X14.D

Injection Date: 08-Jul-2024 00:31:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: 410-177863-A-3

Lab Sample ID: 410-177863-3

Worklist Smp#: 15

Client ID: HD-MW-88-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

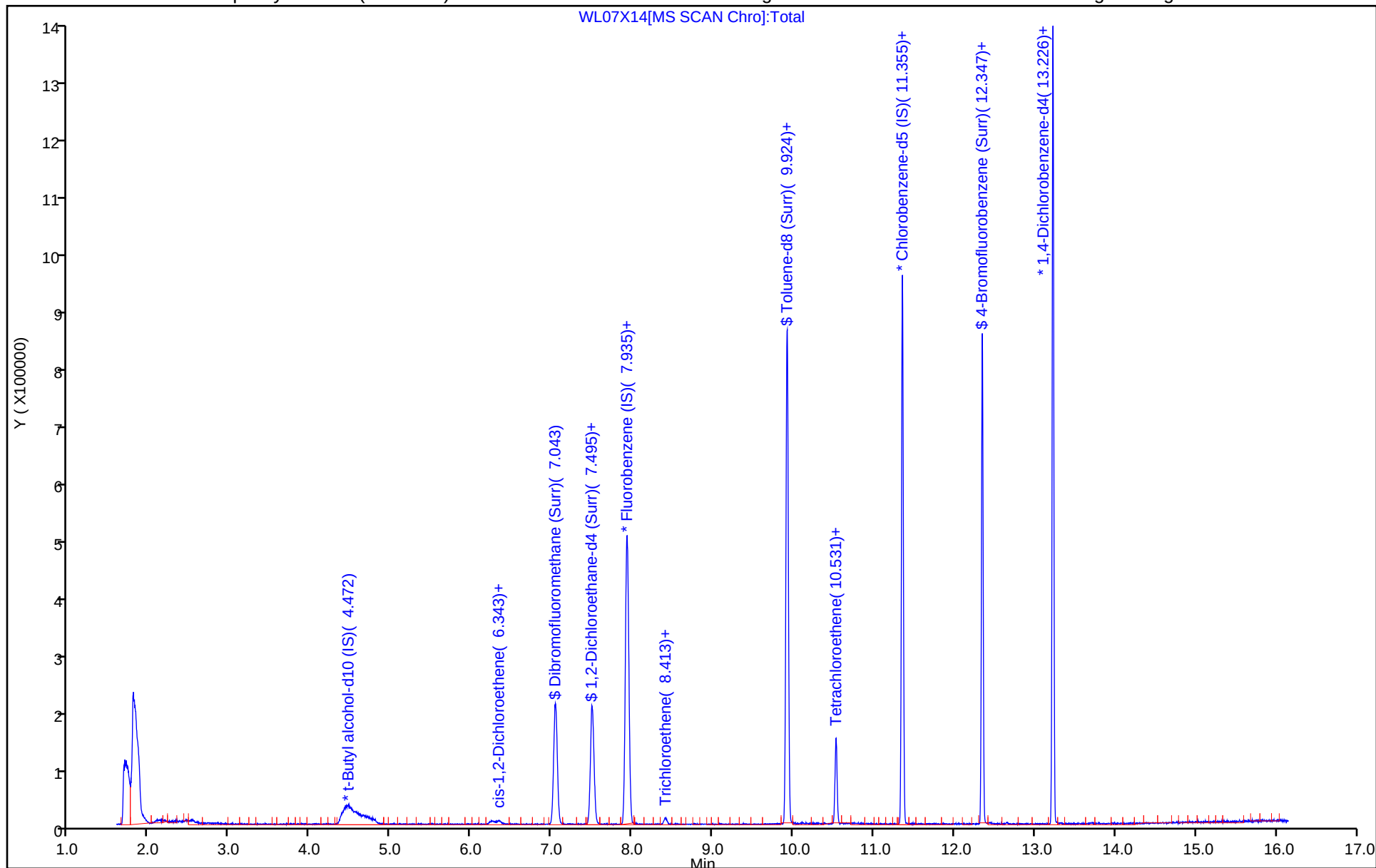
ALS Bottle#: 14

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X14.D
Lims ID: 410-177863-A-3
Client ID: HD-MW-88-0/1-0
Sample Type: Client
Inject. Date: 08-Jul-2024 00:31:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118658-015
Misc. Info.: 410-177863-A-3
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2024 15:45:25 Calib Date: 03-Jun-2024 23:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: FQ4L

Date: 08-Jul-2024 15:45:25

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	56.8	113.66
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	55.7	111.32
\$ 84 Toluene-d8 (Surr)	50.0	48.3	96.59
\$ 114 4-Bromofluorobenzene (Surr)	50.0	47.6	95.11

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X14.D

Injection Date: 08-Jul-2024 00:31:30

Instrument ID: 9137

Lims ID: 410-177863-A-3

Lab Sample ID: 410-177863-3

Client ID: HD-MW-88-0/1-0

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

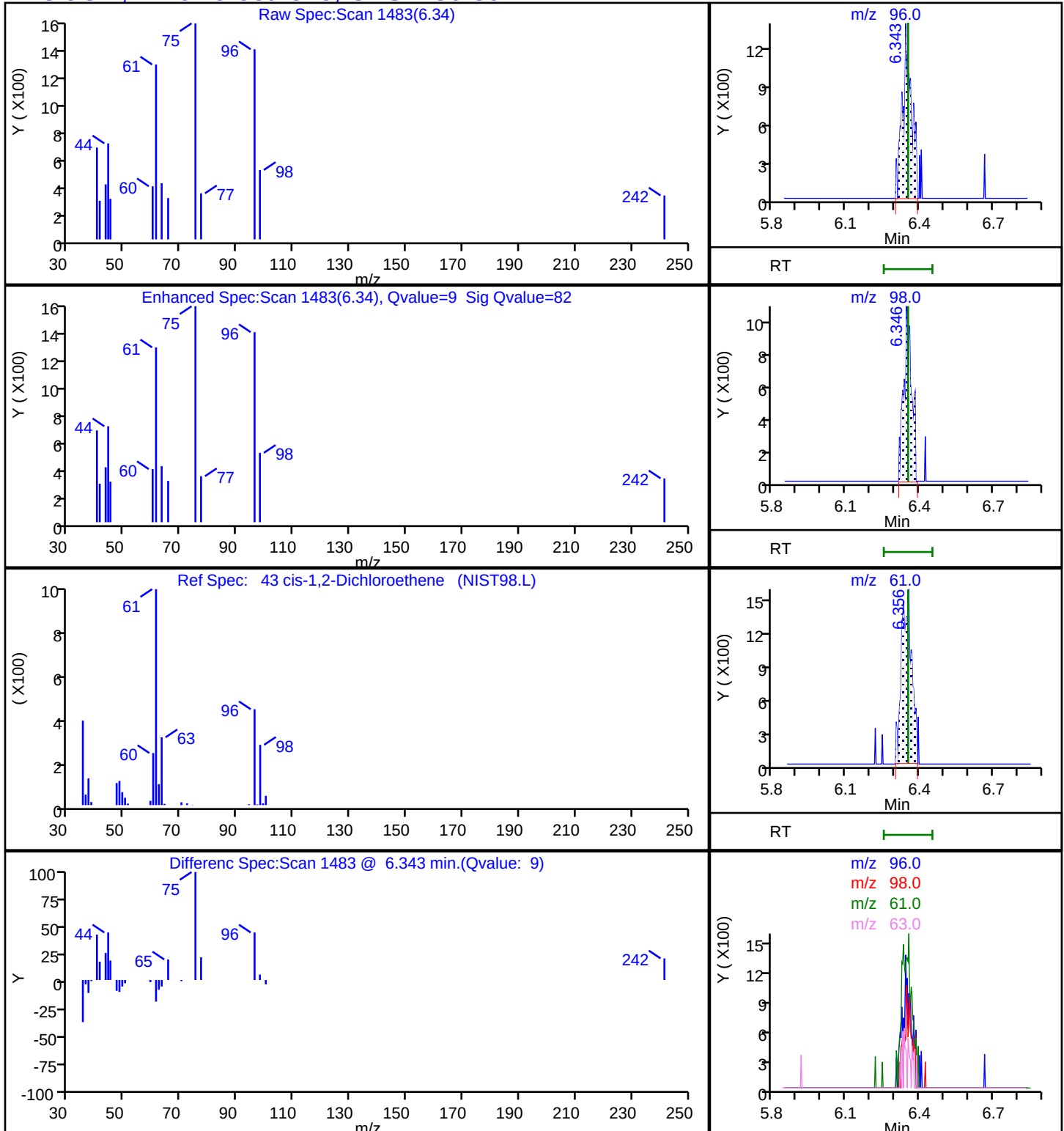
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

MS Quad

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X14.D

Injection Date: 08-Jul-2024 00:31:30

Instrument ID: 9137

Lims ID: 410-177863-A-3

Lab Sample ID: 410-177863-3

Client ID: HD-MW-88-0/1-0

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

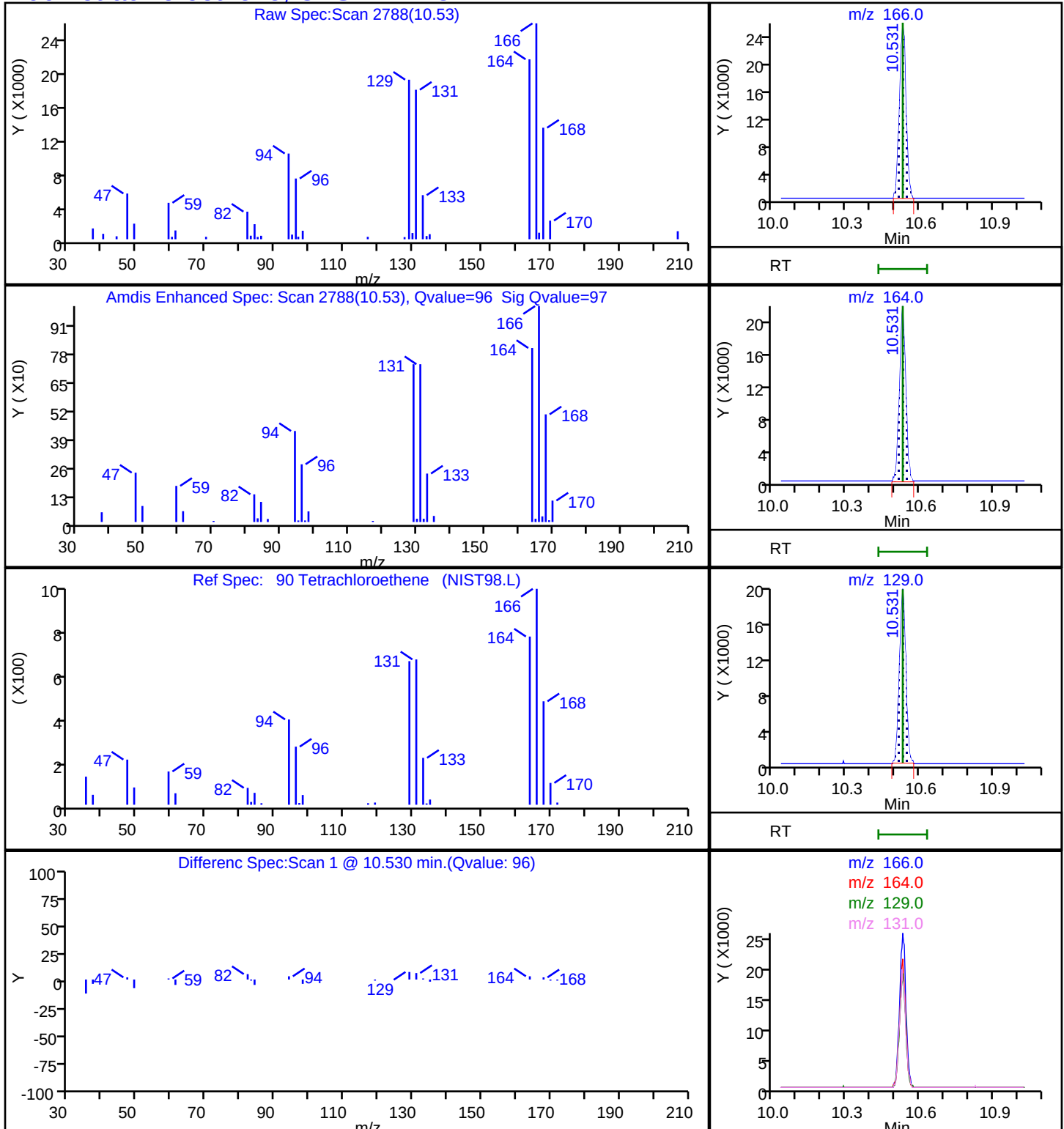
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

MS Quad

90 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X14.D

Injection Date: 08-Jul-2024 00:31:30

Instrument ID: 9137

Lims ID: 410-177863-A-3

Lab Sample ID: 410-177863-3

Client ID: HD-MW-88-0/1-0

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

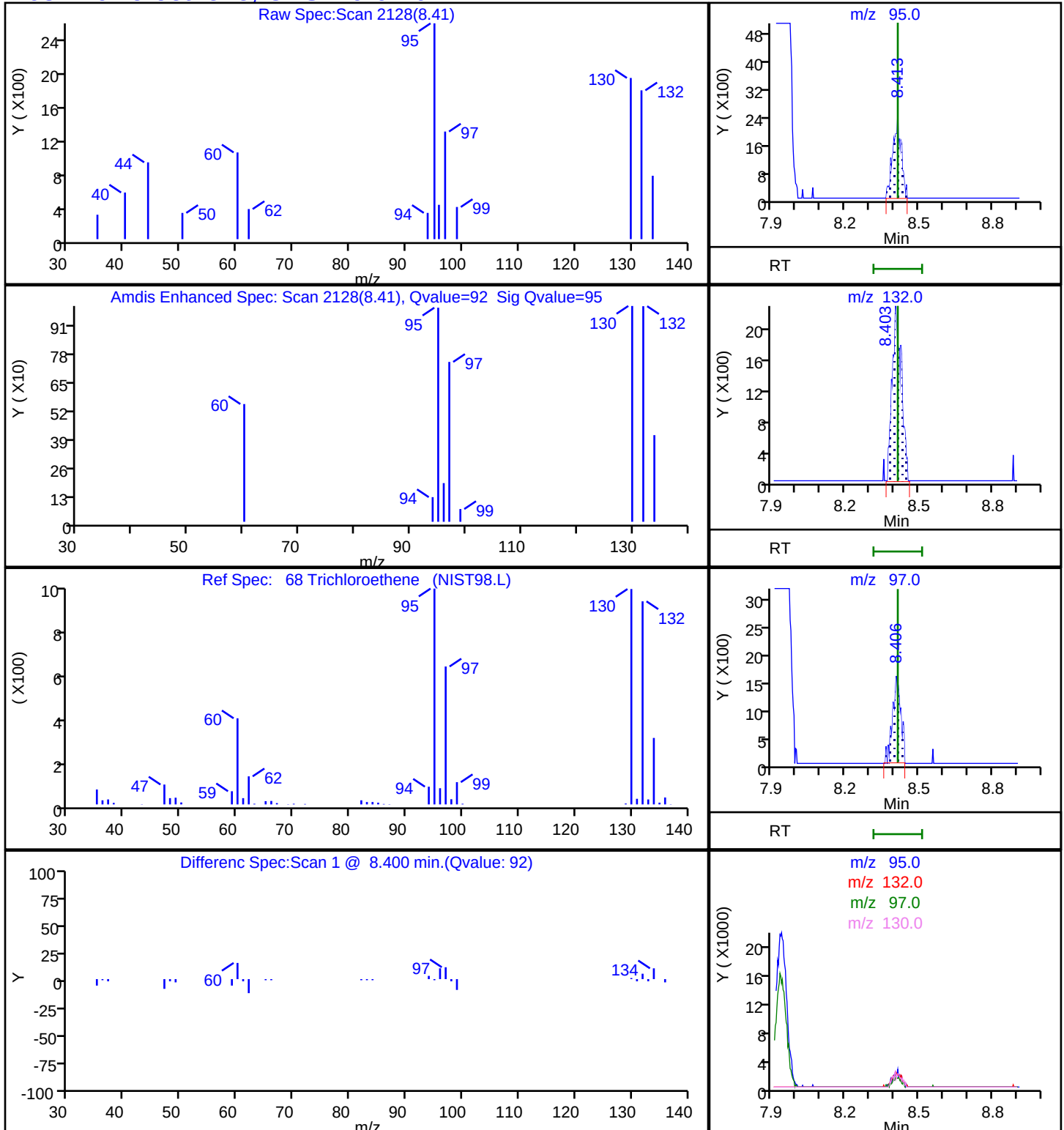
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X14.D

Injection Date: 08-Jul-2024 00:31:30

Instrument ID: 9137

Lims ID: 410-177863-A-3

Lab Sample ID: 410-177863-3

Client ID: HD-MW-88-0/1-0

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: MSVoa_9137

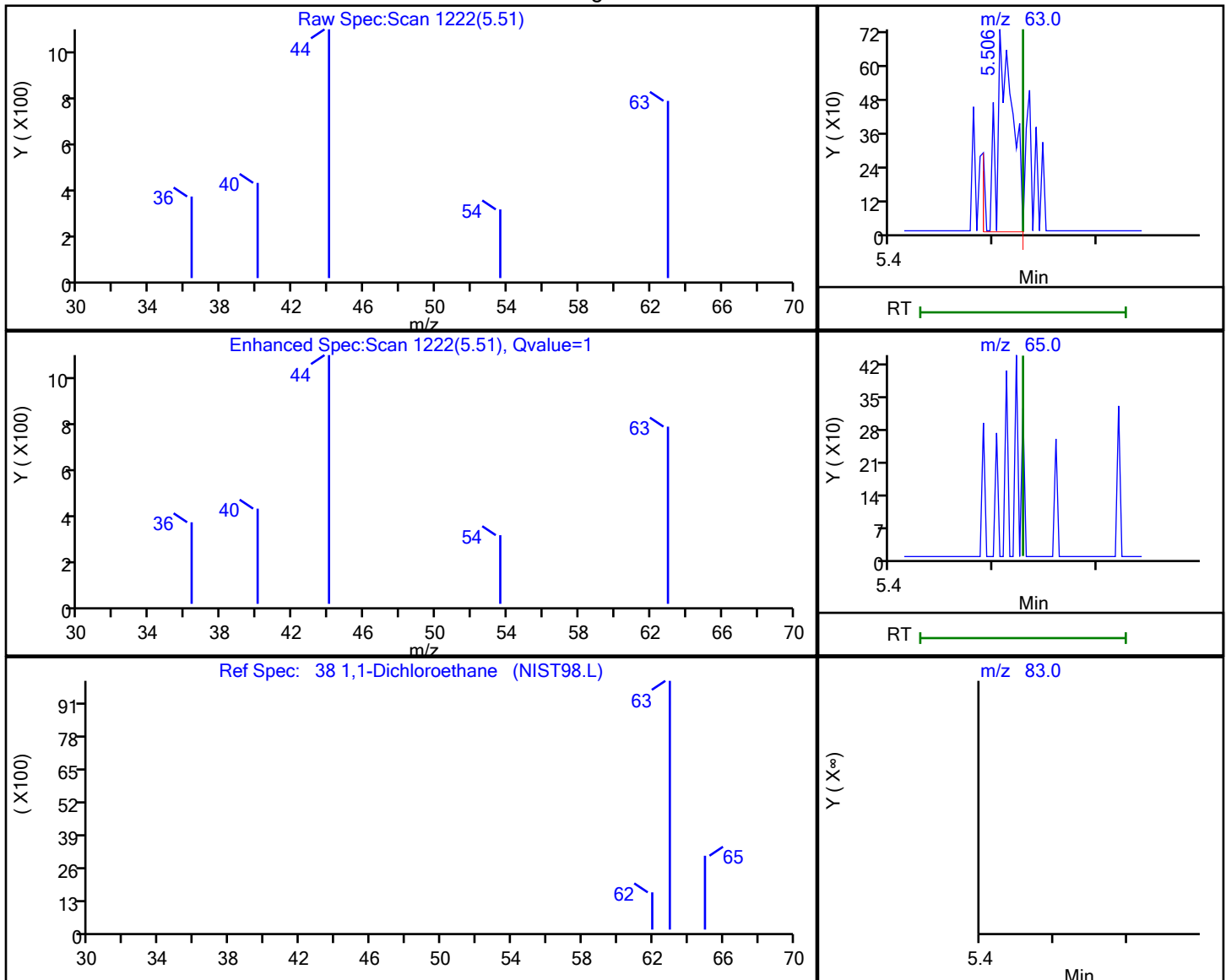
Limit Group: MSV - 8260C_D

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

MS Quad

38 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



RT	Mass	Response	Amount
5.51	63.00	808	0.115776
5.53	65.00	0	
5.53	83.00	0	

Reviewer: FQ4L, 08-Jul-2024 15:45:08 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

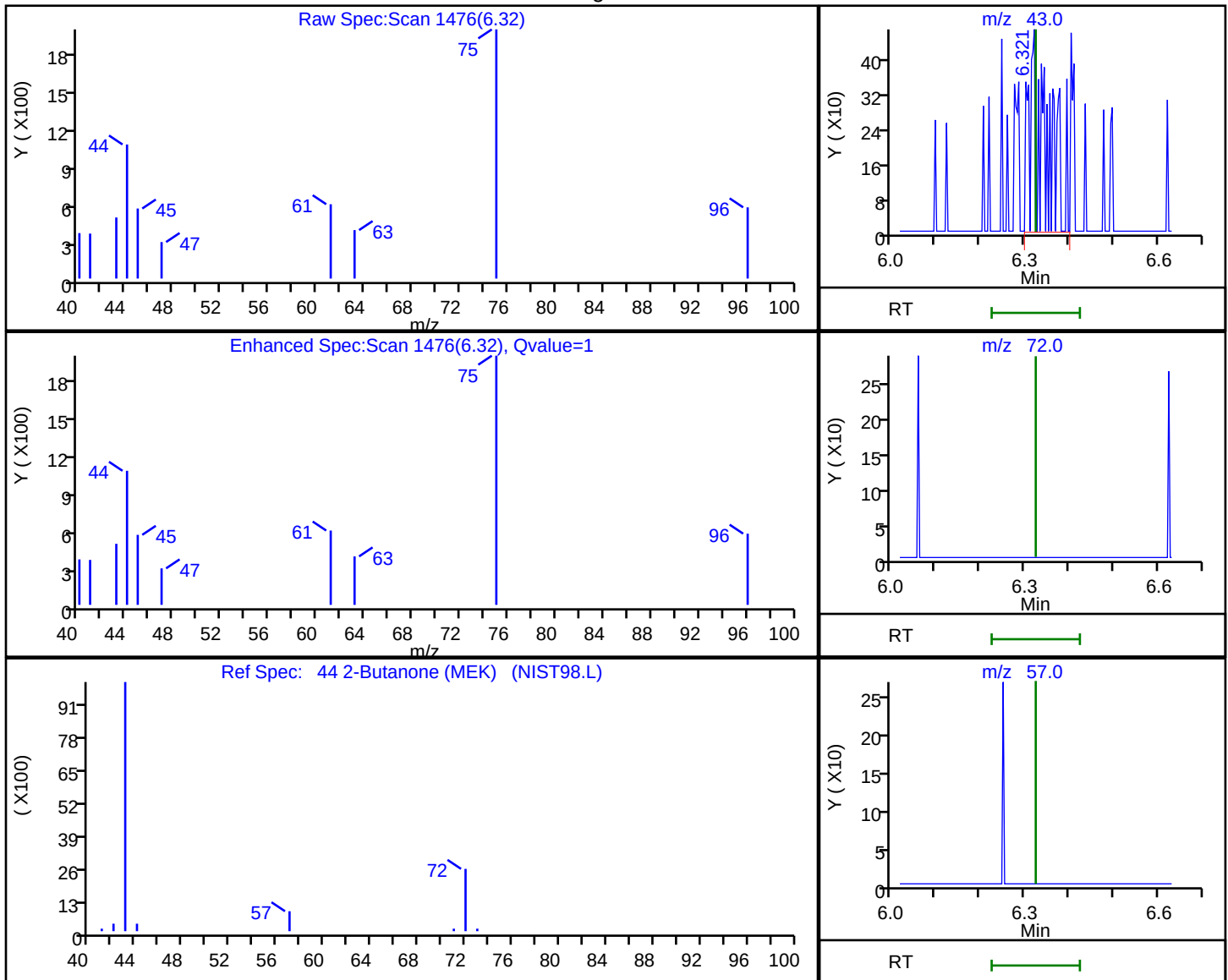
Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X14.D
Injection Date: 08-Jul-2024 00:31:30 Instrument ID: 9137
Lims ID: 410-177863-A-3 Lab Sample ID: 410-177863-3
Client ID: HD-MW-88-0/1-0
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.32	43.00	1191	0.324917
6.32	72.00	0	
6.32	57.00	0	

Reviewer: FQ4L, 08-Jul-2024 15:45:10 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.: 410-177863-1

SDG No.:

Client Sample ID: HD-MW-101S-0/1-0

Lab Sample ID: 410-177863-4

Matrix: Water

Lab File ID: WL07X15.D

Analysis Method: 8260D

Date Collected: 06/25/2024 11:12

Sample wt/vol: 5(mL)

Date Analyzed: 07/08/2024 00:53

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 525333

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	0.46	J	1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	2.7		1.0	0.30
108-88-3	Toluene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-MW-101S-0/1-0 Lab Sample ID: 410-177863-4

Matrix: Water Lab File ID: WL07X15.D

Analysis Method: 8260D Date Collected: 06/25/2024 11:12

Sample wt/vol: 5 (mL) Date Analyzed: 07/08/2024 00:53

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 525333 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	0.52	J	1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	114		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\9137\20240707-118658.b\WL07X15.D
 Lims ID: 410-177863-A-4
 Client ID: HD-MW-101S-0/1-0
 Sample Type: Client
 Inject. Date: 08-Jul-2024 00:53:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0118658-016
 Misc. Info.: 410-177863-A-4
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Jul-2024 15:44:54 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1632

First Level Reviewer: FQ4L

Date: 08-Jul-2024 15:44:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.242				ND	
8 Vinyl chloride	62		2.364				ND	
11 Bromomethane	94		2.733				ND	
12 Chloroethane	64		2.823				ND	
21 1,1-Dichloroethene	96		3.750				ND	
20 Acetone	58		3.782				ND	
26 Carbon disulfide	76		4.090				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.434	4.453	-0.019	5	238154	250.0	
30 Methylene Chloride	84		4.456				ND	
36 Methyl tert-butyl ether	73		4.848				ND	
35 trans-1,2-Dichloroethene	96		4.854				ND	
38 1,1-Dichloroethane	63		5.528				ND	
44 2-Butanone (MEK)	43		6.324				ND	U
43 cis-1,2-Dichloroethene	96	6.356	6.353	0.003	1	2075	0.4612	
50 Chlorobromomethane	128		6.683				ND	
52 Chloroform	83		6.834				ND	7
\$ 54 Dibromofluoromethane (Surr)	113	7.039	7.046	-0.007	92	206650	57.0	
55 1,1,1-Trichloroethane	97		7.062				ND	U
58 Carbon tetrachloride	117		7.270				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.495	7.502	-0.007	69	51078	56.2	
61 Benzene	78		7.537				ND	
62 1,2-Dichloroethane	62		7.611				ND	
* 65 Fluorobenzene (IS)	96	7.938	7.944	-0.006	99	727537	50.0	
68 Trichloroethene	95	8.413	8.413	0.000	39	2300	0.5155	
71 1,2-Dichloropropane	63		8.756				ND	
77 Dichlorobromomethane	83		9.090				ND	
81 cis-1,3-Dichloropropene	75		9.623				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.802				ND	7
\$ 84 Toluene-d8 (Surr)	98	9.921	9.921	0.000	94	655424	46.9	
85 Toluene	92		9.998				ND	
86 trans-1,3-Dichloropropene	75		10.252				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 1,1,2-Trichloroethane	97		10.451				ND	
90 Tetrachloroethene	166	10.530	10.531	-0.001	96	11914	2.73	
94 2-Hexanone	43		10.666				ND	7
96 Chlorodibromomethane	129		10.820				ND	
98 Ethylene Dibromide	107		10.929				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.355	11.355	0.000	85	510641	50.0	
102 Chlorobenzene	112		11.381				ND	
104 1,1,1,2-Tetrachloroethane	131		11.465				ND	
105 Ethylbenzene	91		11.465				ND	7
106 m-Xylene & p-Xylene	106		11.580				ND	
108 o-Xylene	106		11.907				ND	
109 Styrene	104		11.923				ND	
110 Bromoform	173		12.081				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.347	12.347	0.000	91	231320	45.6	
116 1,1,2,2-Tetrachloroethane	83		12.450				ND	
* 133 1,4-Dichlorobenzene-d4	152	13.226	13.226	0.000	94	315968	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00029

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X15.D

Injection Date: 08-Jul-2024 00:53:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: 410-177863-A-4

Lab Sample ID: 410-177863-4

Worklist Smp#: 16

Client ID: HD-MW-101S-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

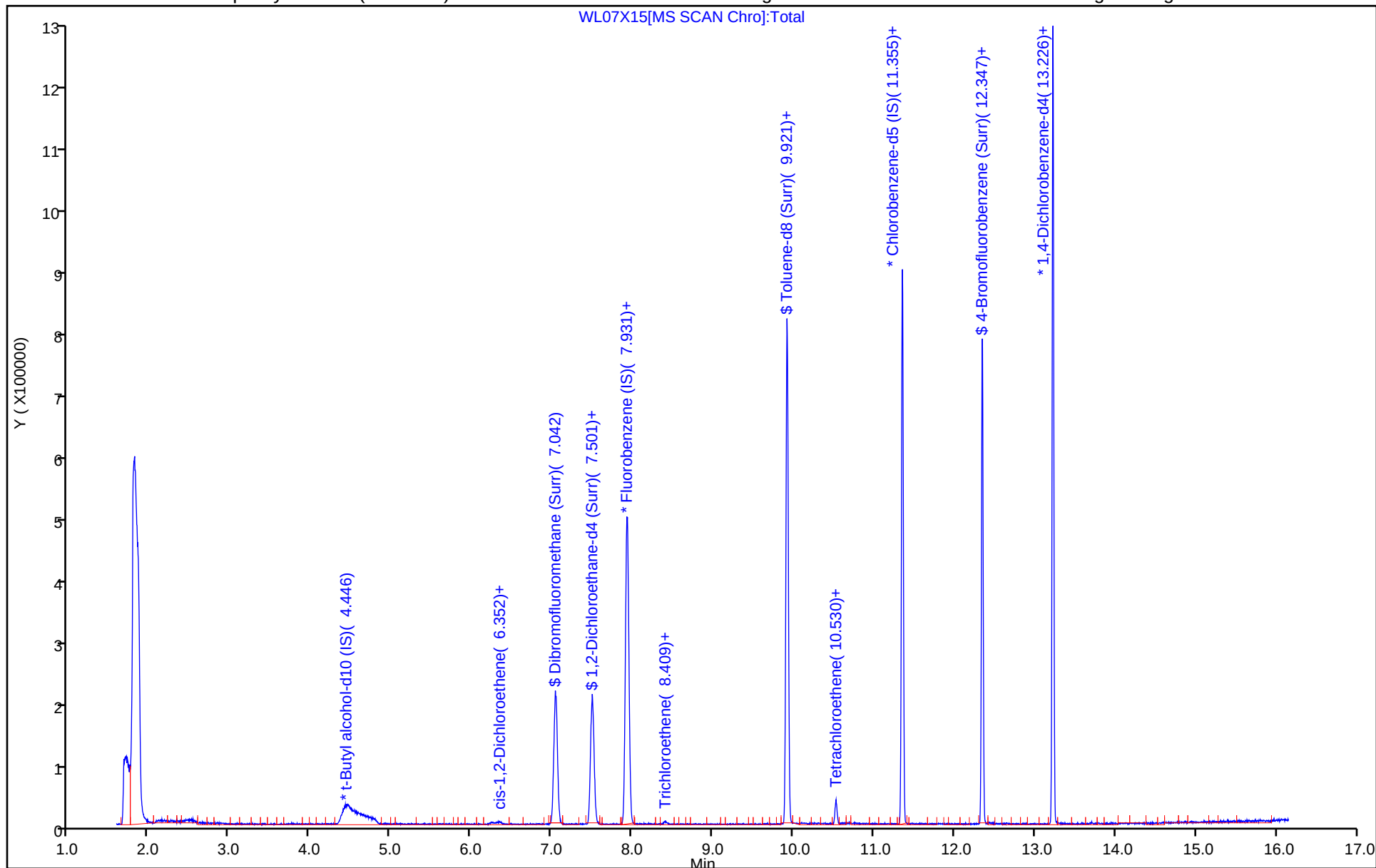
ALS Bottle#: 15

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X15.D
Lims ID: 410-177863-A-4
Client ID: HD-MW-101S-0/1-0
Sample Type: Client
Inject. Date: 08-Jul-2024 00:53:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118658-016
Misc. Info.: 410-177863-A-4
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2024 15:44:54 Calib Date: 03-Jun-2024 23:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: FQ4L

Date: 08-Jul-2024 15:44:54

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	57.0	114.03
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	56.2	112.47
\$ 84 Toluene-d8 (Surr)	50.0	46.9	93.76
\$ 114 4-Bromofluorobenzene (Surr)	50.0	45.6	91.13

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X15.D

Instrument ID: 9137

Lab Sample ID: 410-177863-4

Operator ID: qaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Dil. Factor: 1.0000

Limit Group: MSV - 8260C D

MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-55-2

Raw Spec: Scan 1487(6.36)

Enhanced Spec: Scan 1487(6.36), Qvalue=1 Sig Qvalue=78

Ref Spec: 43 cis-1,2-Dichloroethene (NIST98.L)

Differenc Spec: Scan 1487 @ 6.356 min.(Qvalue: 1)

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X15.D

Injection Date: 08-Jul-2024 00:53:30

Instrument ID: 9137

Lims ID: 410-177863-A-4

Lab Sample ID: 410-177863-4

Client ID: HD-MW-101S-0/1-0

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 5.000 mL

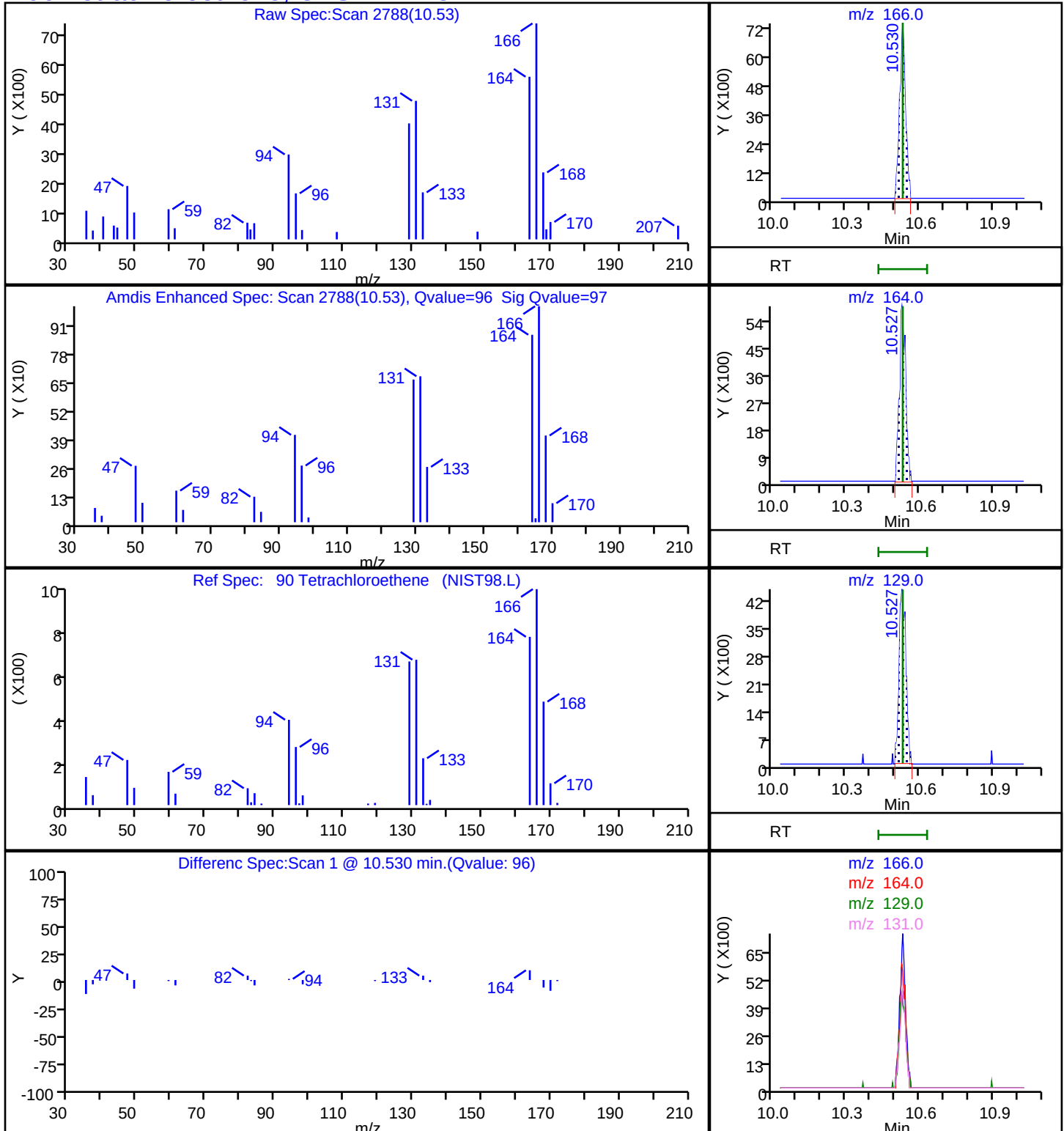
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

MS Quad

90 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X15.D

Injection Date: 08-Jul-2024 00:53:30

Instrument ID: 9137

Lims ID: 410-177863-A-4

Lab Sample ID: 410-177863-4

Client ID: HD-MW-101S-0/1-0

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 5.000 mL

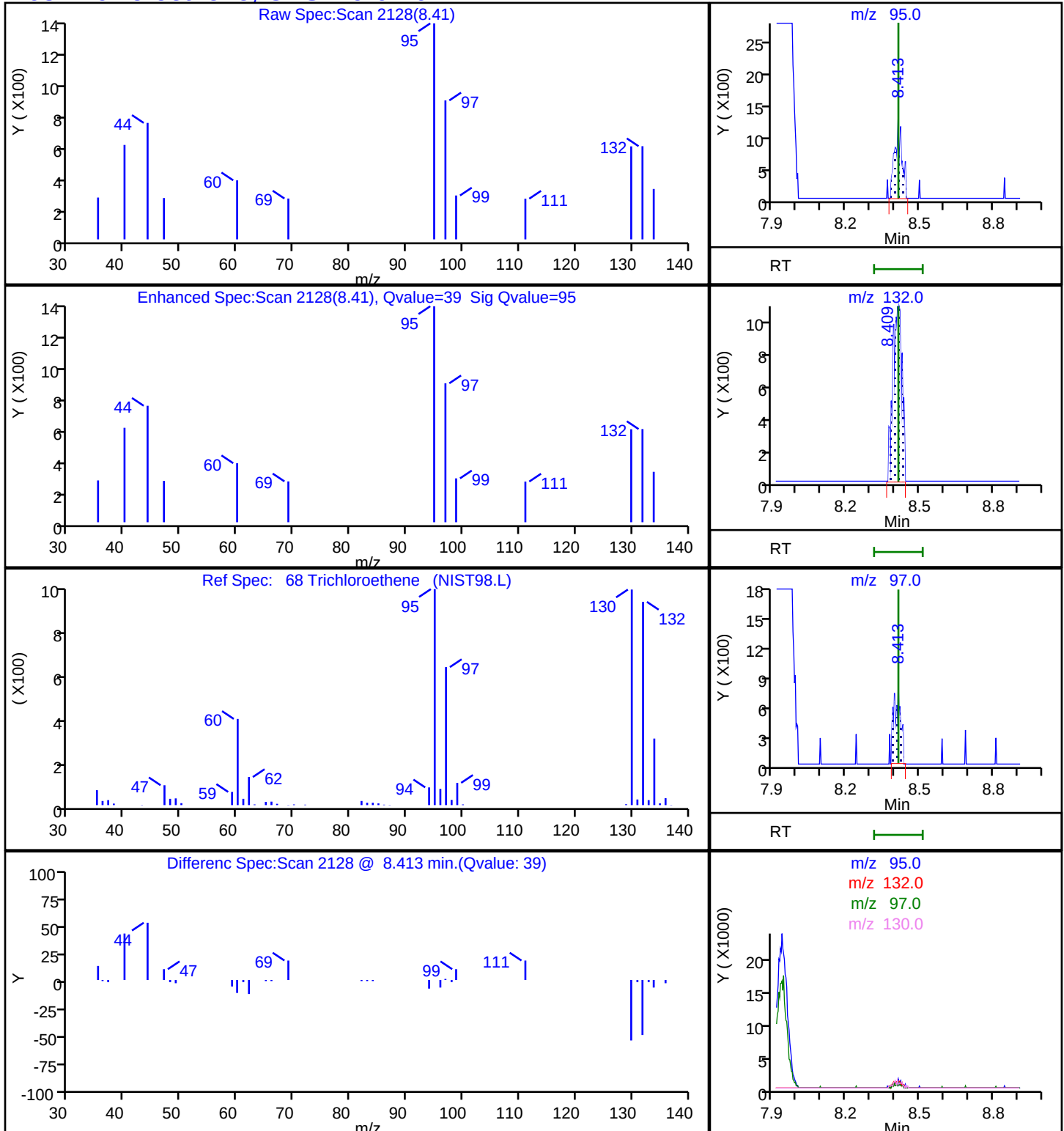
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

MS Quad

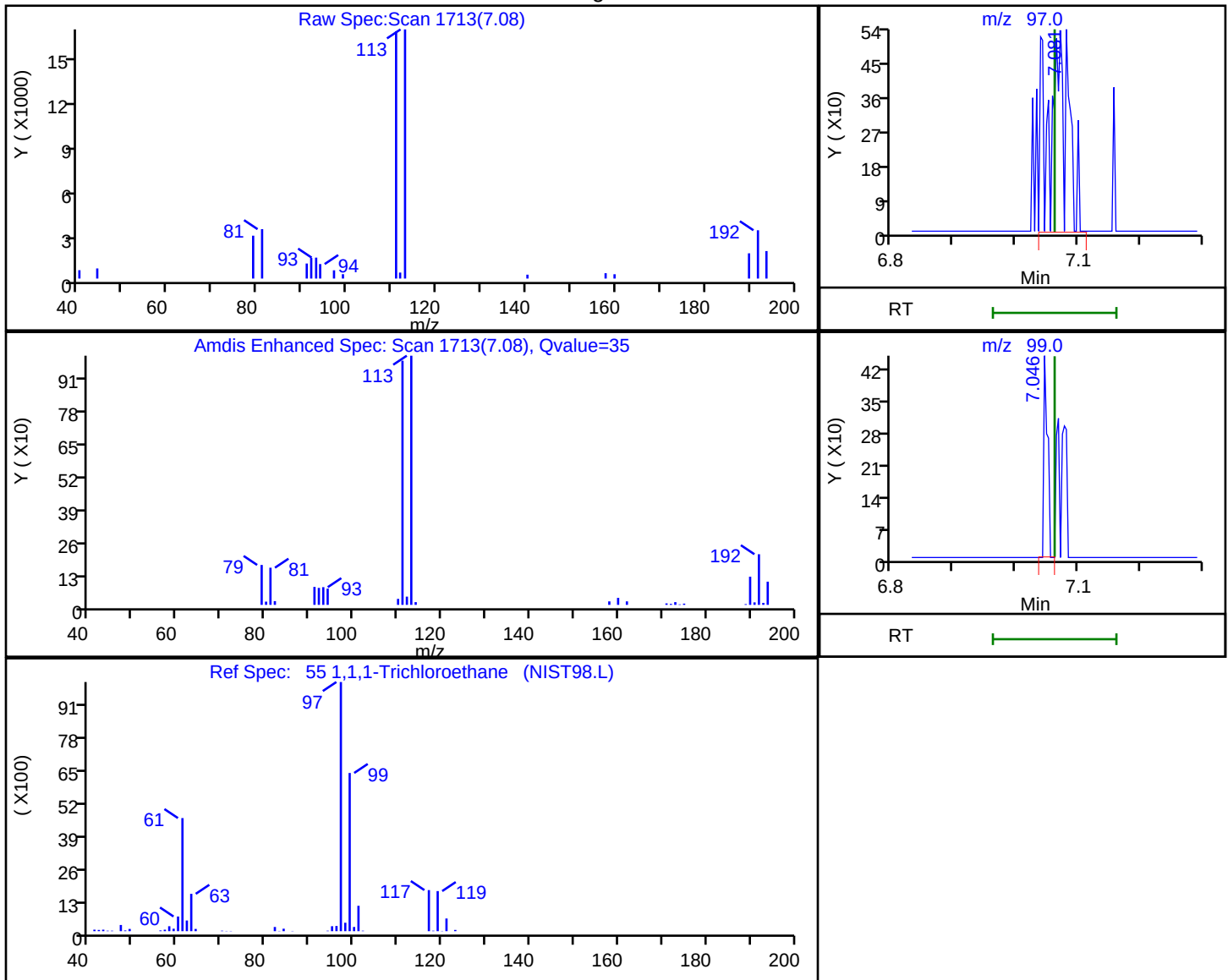
68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X15.D
Injection Date: 08-Jul-2024 00:53:30 Instrument ID: 9137
Lims ID: 410-177863-A-4 Lab Sample ID: 410-177863-4
Client ID: HD-MW-101S-0/1-0
Operator ID: gaw91131 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

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

Processing Results



RT	Mass	Response	Amount
7.08	97.00	1149	0.151216
7.05	99.00	190	

Reviewer: FQ4L, 08-Jul-2024 15:44:40 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

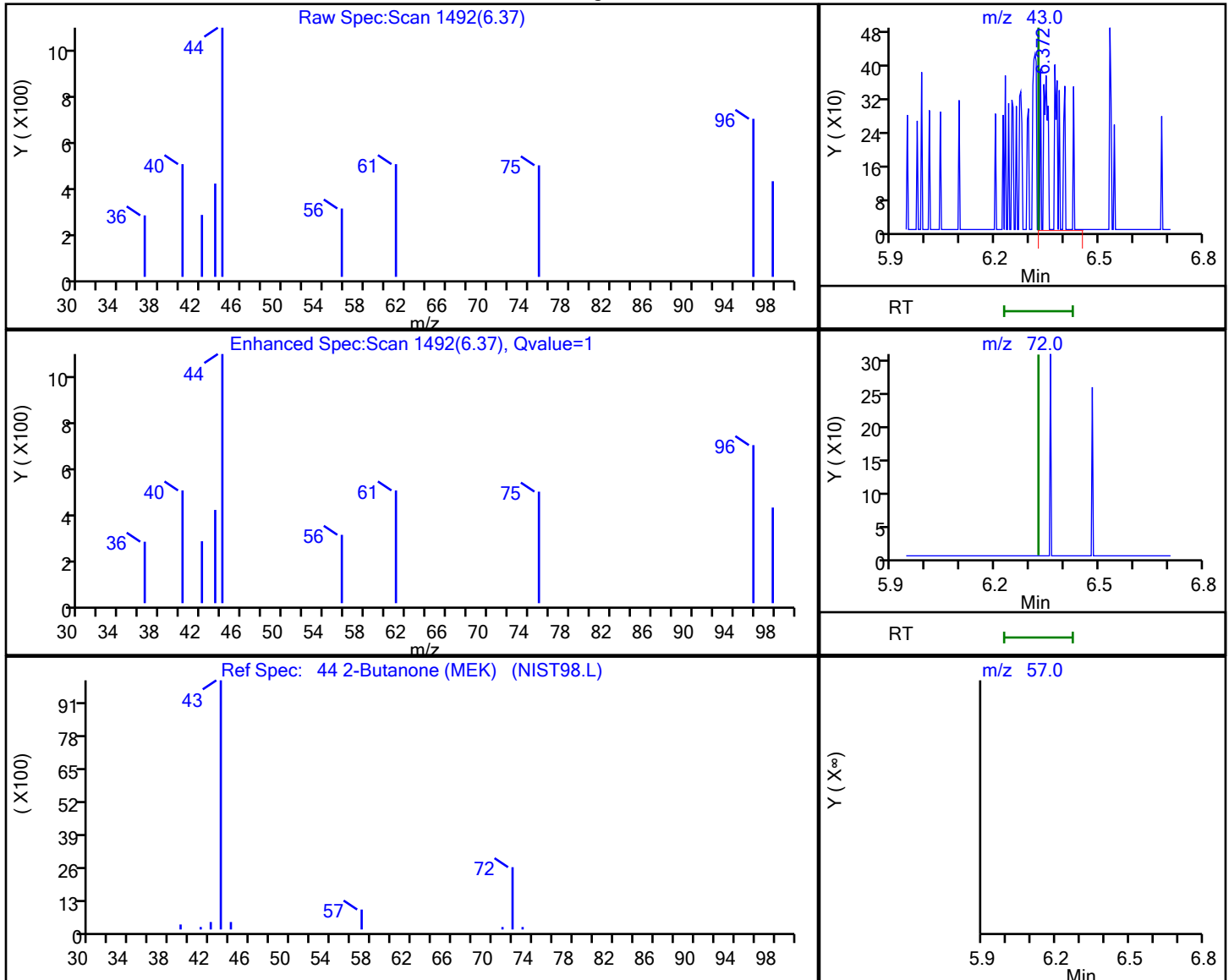
Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X15.D
Injection Date: 08-Jul-2024 00:53:30 Instrument ID: 9137
Lims ID: 410-177863-A-4 Lab Sample ID: 410-177863-4
Client ID: HD-MW-101S-0/1-0
Operator ID: gaw91131 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.37	43.00	809	0.222976
6.32	72.00	0	
6.32	57.00	0	

Reviewer: FQ4L, 08-Jul-2024 15:44:35 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.: 410-177863-1

SDG No.:

Client Sample ID: HD-MW-101D-0/1-0

Lab Sample ID: 410-177863-5

Matrix: Water

Lab File ID: WL07X16.D

Analysis Method: 8260D

Date Collected: 06/25/2024 09:50

Sample wt/vol: 5(mL)

Date Analyzed: 07/08/2024 01:15

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 525333

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	8.1		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	4.1		1.0	0.30
108-88-3	Toluene	ND		1.0	0.30

FORM I

GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No. :

Client Sample ID: HD-MW-101D-0/1-0

Lab Sample ID: 410-177863-5

Matrix: Water

Lab File ID: WL07X16.D

Analysis Method: 8260D

Date Collected: 06/25/2024 09:50

Sample wt/vol: 5 (mL)

Date Analyzed: 07/08/2024 01:15

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 525333

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	3.9		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	113		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\9137\20240707-118658.b\WL07X16.D
 Lims ID: 410-177863-A-5
 Client ID: HD-MW-101D-0/1-0
 Sample Type: Client
 Inject. Date: 08-Jul-2024 01:15:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0118658-017
 Misc. Info.: 410-177863-A-5
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Jul-2024 15:44:18 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1632

First Level Reviewer: FQ4L

Date: 08-Jul-2024 15:44:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.242				ND	
8 Vinyl chloride	62		2.364				ND	
11 Bromomethane	94		2.733				ND	
12 Chloroethane	64		2.823				ND	
21 1,1-Dichloroethene	96		3.750				ND	
20 Acetone	58		3.782				ND	
26 Carbon disulfide	76		4.090				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.450	4.453	-0.003	1	235091	250.0	
30 Methylene Chloride	84		4.456				ND	
36 Methyl tert-butyl ether	73		4.848				ND	
35 trans-1,2-Dichloroethene	96		4.854				ND	
38 1,1-Dichloroethane	63		5.528				ND	U
44 2-Butanone (MEK)	43		6.324				ND	7
43 cis-1,2-Dichloroethene	96	6.353	6.353	0.000	76	36977	8.06	
50 Chlorobromomethane	128		6.683				ND	
52 Chloroform	83		6.834				ND	7
\$ 54 Dibromofluoromethane (Surr)	113	7.039	7.046	-0.007	93	208477	56.4	
55 1,1,1-Trichloroethane	97		7.062				ND	
58 Carbon tetrachloride	117		7.270				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.498	7.502	-0.004	69	48650	52.5	
61 Benzene	78		7.537				ND	
62 1,2-Dichloroethane	62		7.611				ND	
* 65 Fluorobenzene (IS)	96	7.935	7.944	-0.009	99	741800	50.0	
68 Trichloroethene	95	8.413	8.413	0.000	96	17532	3.85	
71 1,2-Dichloropropane	63		8.756				ND	
77 Dichlorobromomethane	83		9.090				ND	
81 cis-1,3-Dichloropropene	75		9.623				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.802				ND	7
\$ 84 Toluene-d8 (Surr)	98	9.921	9.921	0.000	94	707205	49.9	
85 Toluene	92		9.998				ND	
86 trans-1,3-Dichloropropene	75		10.252				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 1,1,2-Trichloroethane	97		10.451				ND	
90 Tetrachloroethene	166	10.531	10.531	0.000	94	17952	4.05	
94 2-Hexanone	43		10.666				ND	
96 Chlorodibromomethane	129		10.820				ND	
98 Ethylene Dibromide	107		10.929				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.355	11.355	0.000	85	517720	50.0	
102 Chlorobenzene	112		11.381				ND	
104 1,1,1,2-Tetrachloroethane	131		11.465				ND	
105 Ethylbenzene	91		11.465				ND	
106 m-Xylene & p-Xylene	106		11.580				ND	
108 o-Xylene	106		11.907				ND	
109 Styrene	104		11.923				ND	
110 Bromoform	173		12.081				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.347	12.347	0.000	91	260384	50.6	
116 1,1,2,2-Tetrachloroethane	83		12.450				ND	
* 133 1,4-Dichlorobenzene-d4	152	13.226	13.226	0.000	94	342090	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

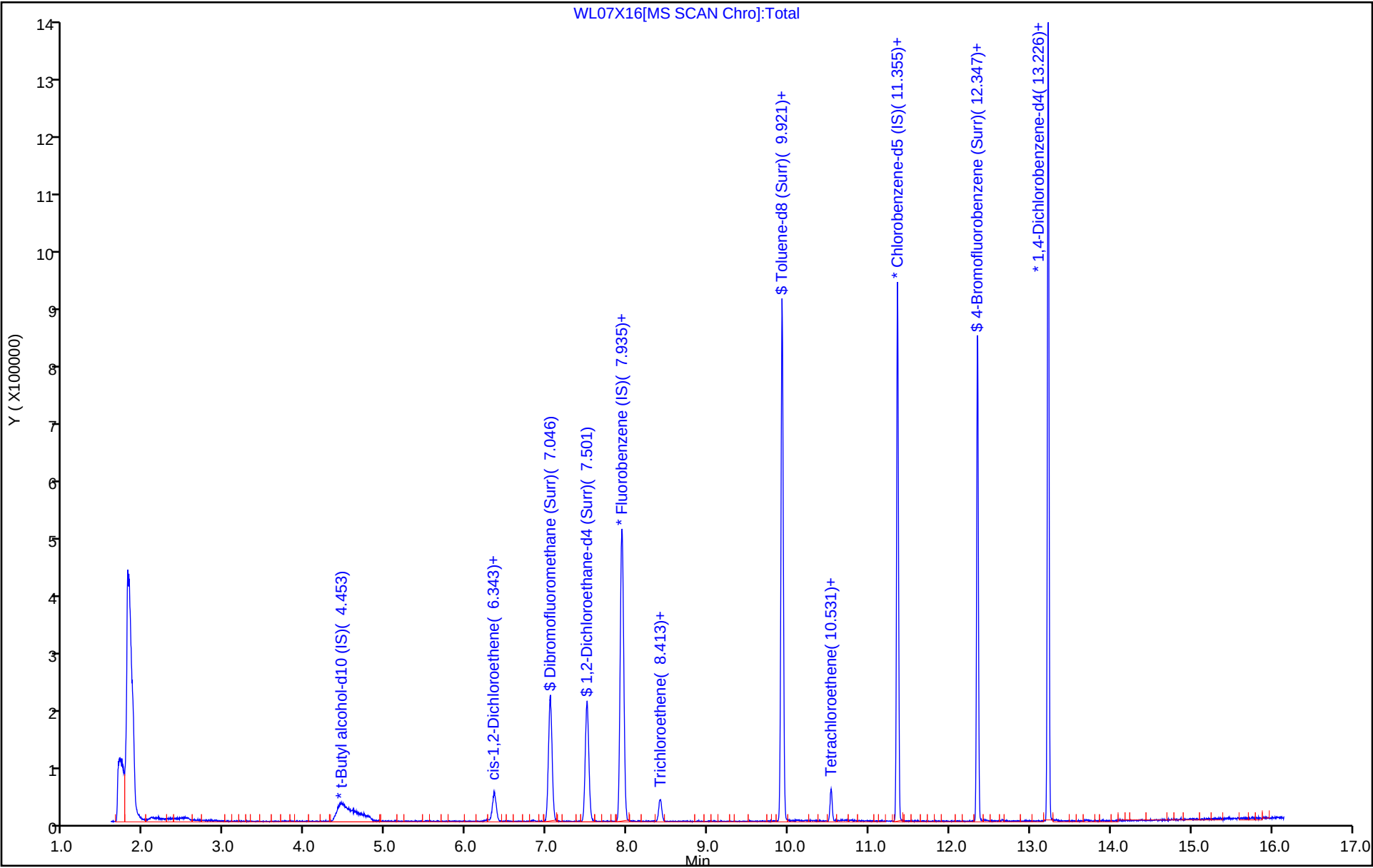
Reagents:

MSV_Cent_ISSS_00029

Amount Added: 5.00

Units: uL

Run Reagent



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X16.D
Lims ID: 410-177863-A-5
Client ID: HD-MW-101D-0/1-0
Sample Type: Client
Inject. Date: 08-Jul-2024 01:15:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118658-017
Misc. Info.: 410-177863-A-5
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2024 15:44:18 Calib Date: 03-Jun-2024 23:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: FQ4L

Date: 08-Jul-2024 15:44:18

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	56.4	112.83
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	52.5	105.06
\$ 84 Toluene-d8 (Surr)	50.0	49.9	99.79
\$ 114 4-Bromofluorobenzene (Surr)	50.0	50.6	101.18

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X16.D

Injection Date: 08-Jul-2024 01:15:30

Instrument ID: 9137

Lims ID: 410-177863-A-5

Lab Sample ID: 410-177863-5

Client ID: HD-MW-101D-0/1-0

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 5.000 mL

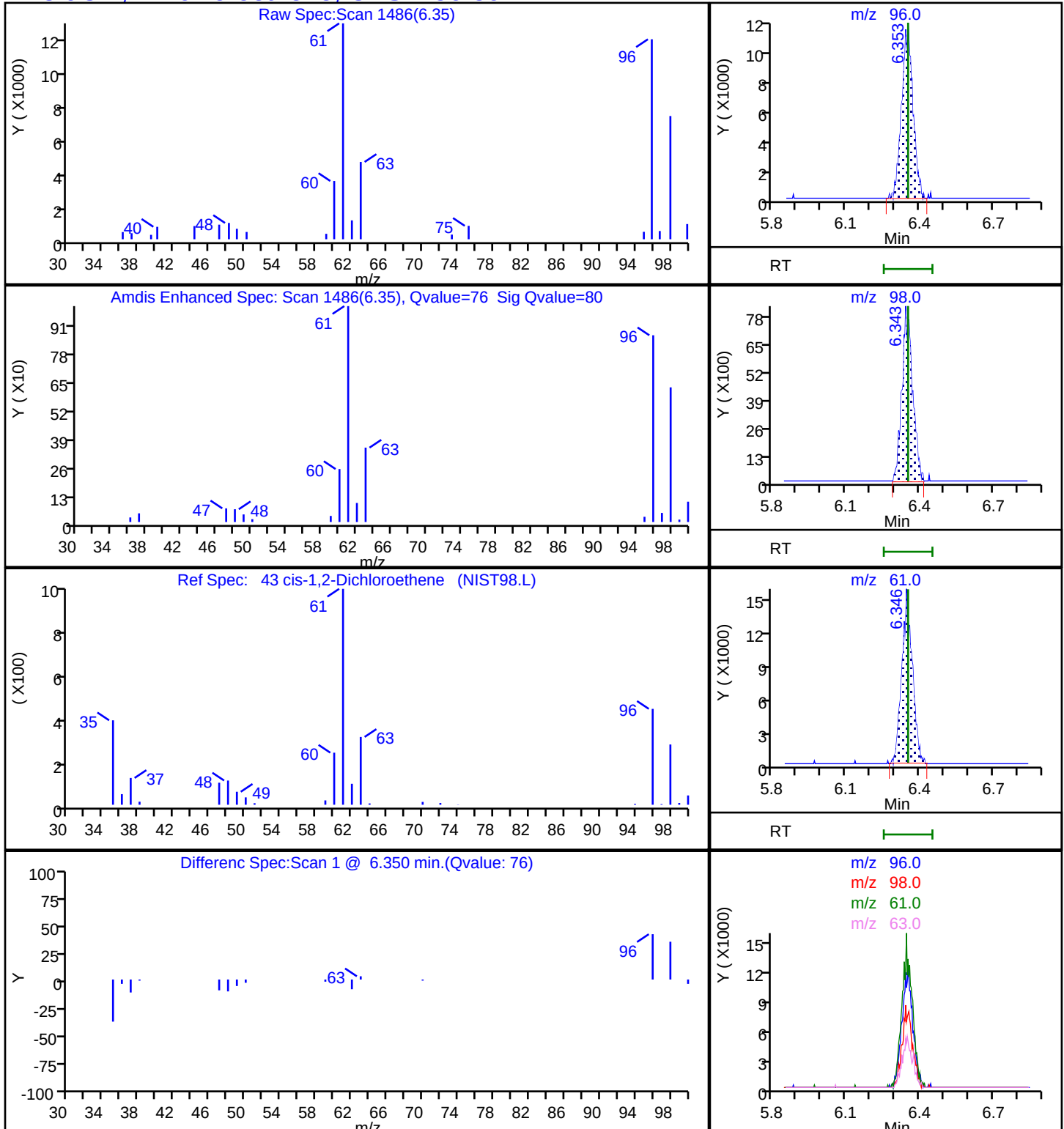
Dil. Factor: 1.0000

Method: MSVoa_9137

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\9137\20240707-118658.b\WL07X16.D

Injection Date: 08-Jul-2024 01:15:30

Instrument ID: 9137

Lims ID: 410-177863-A-5

Lab Sample ID: 410-177863-5

Client ID: HD-MW-101D-0/1-0

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 5.000 mL

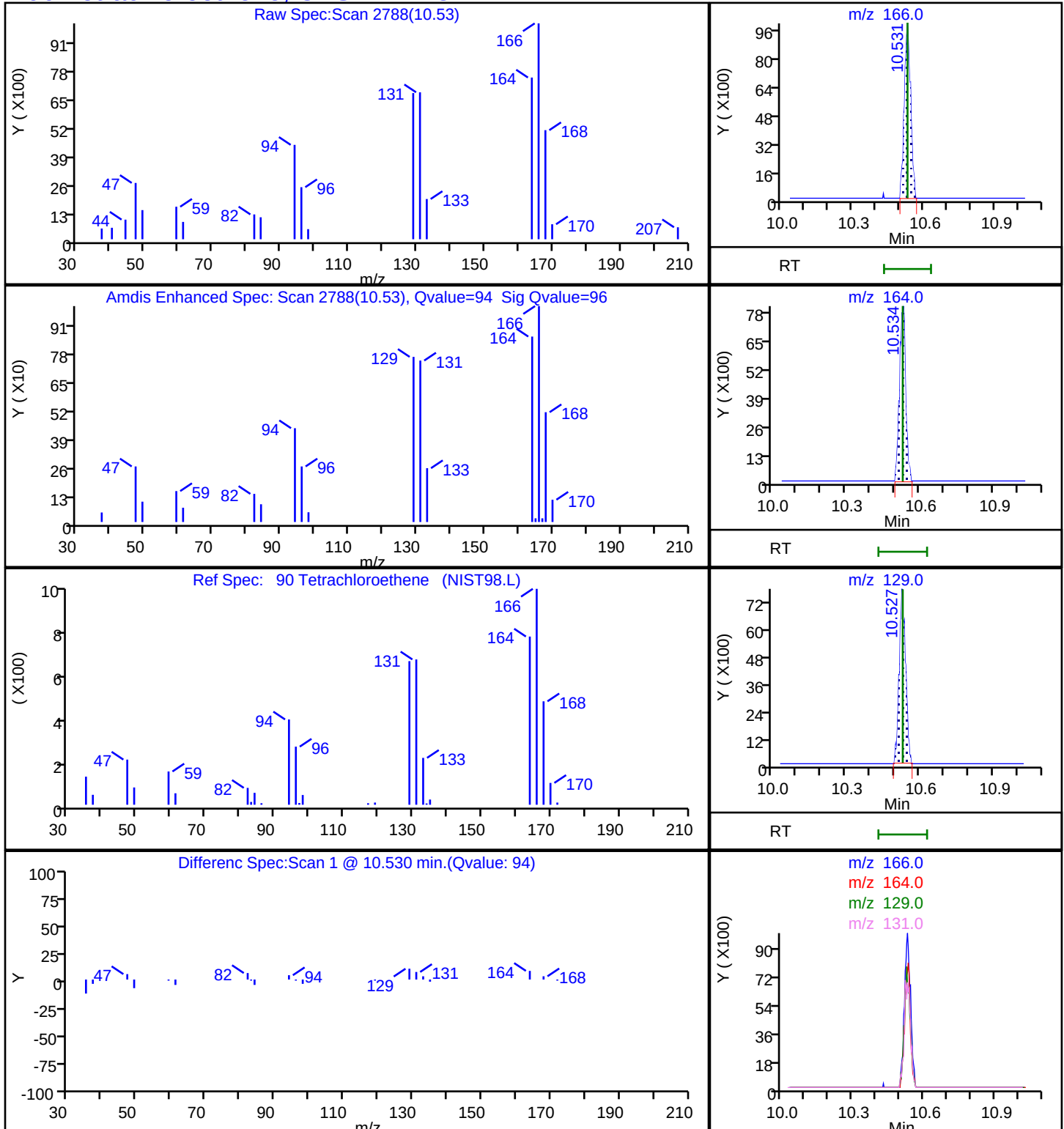
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

MS Quad

90 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X16.D

Injection Date: 08-Jul-2024 01:15:30

Instrument ID: 9137

Lims ID: 410-177863-A-5

Lab Sample ID: 410-177863-5

Client ID: HD-MW-101D-0/1-0

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 5.000 mL

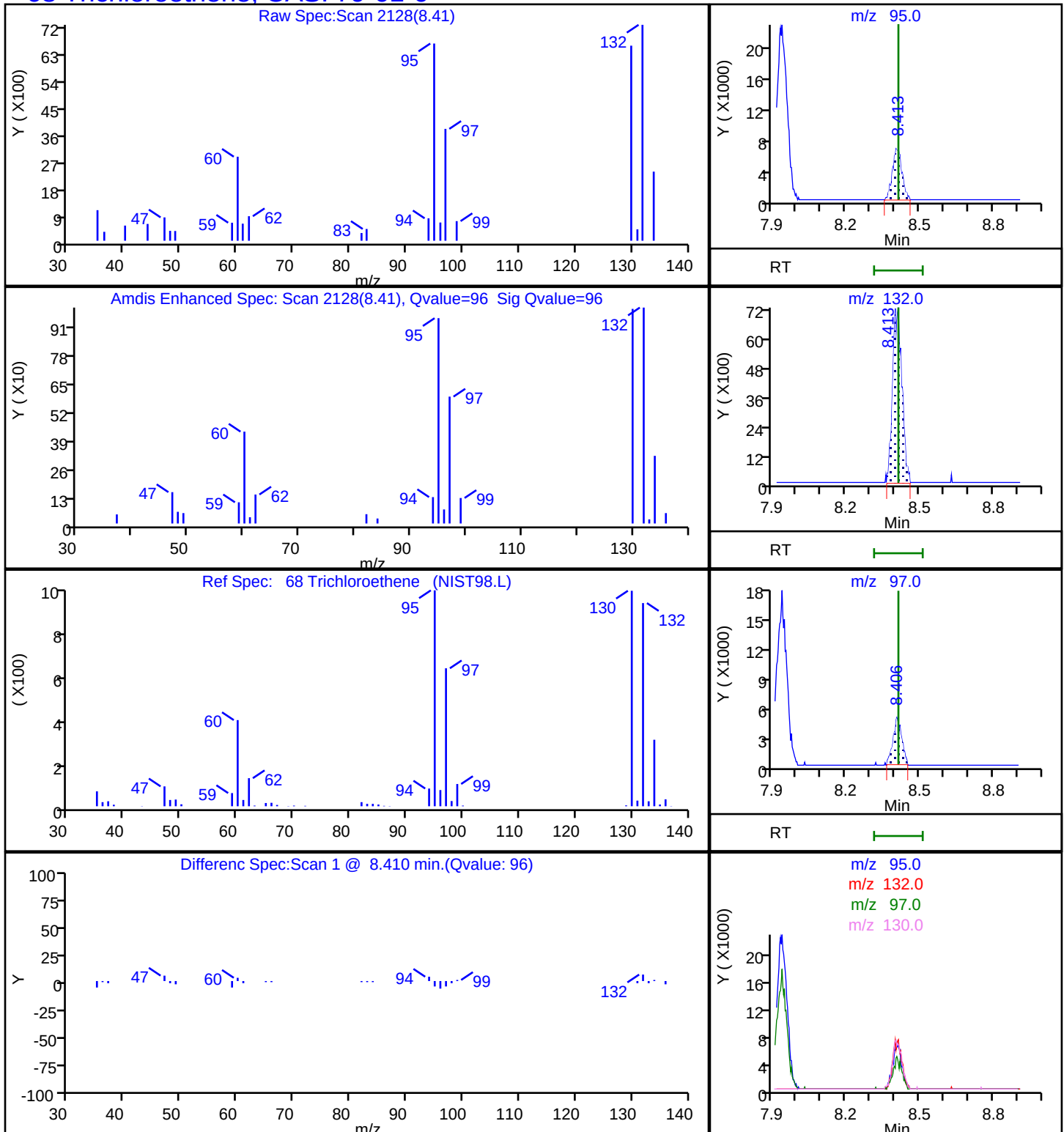
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X16.D

Injection Date: 08-Jul-2024 01:15:30

Instrument ID: 9137

Lims ID: 410-177863-A-5

Lab Sample ID: 410-177863-5

Client ID: HD-MW-101D-0/1-0

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: MSVoa_9137

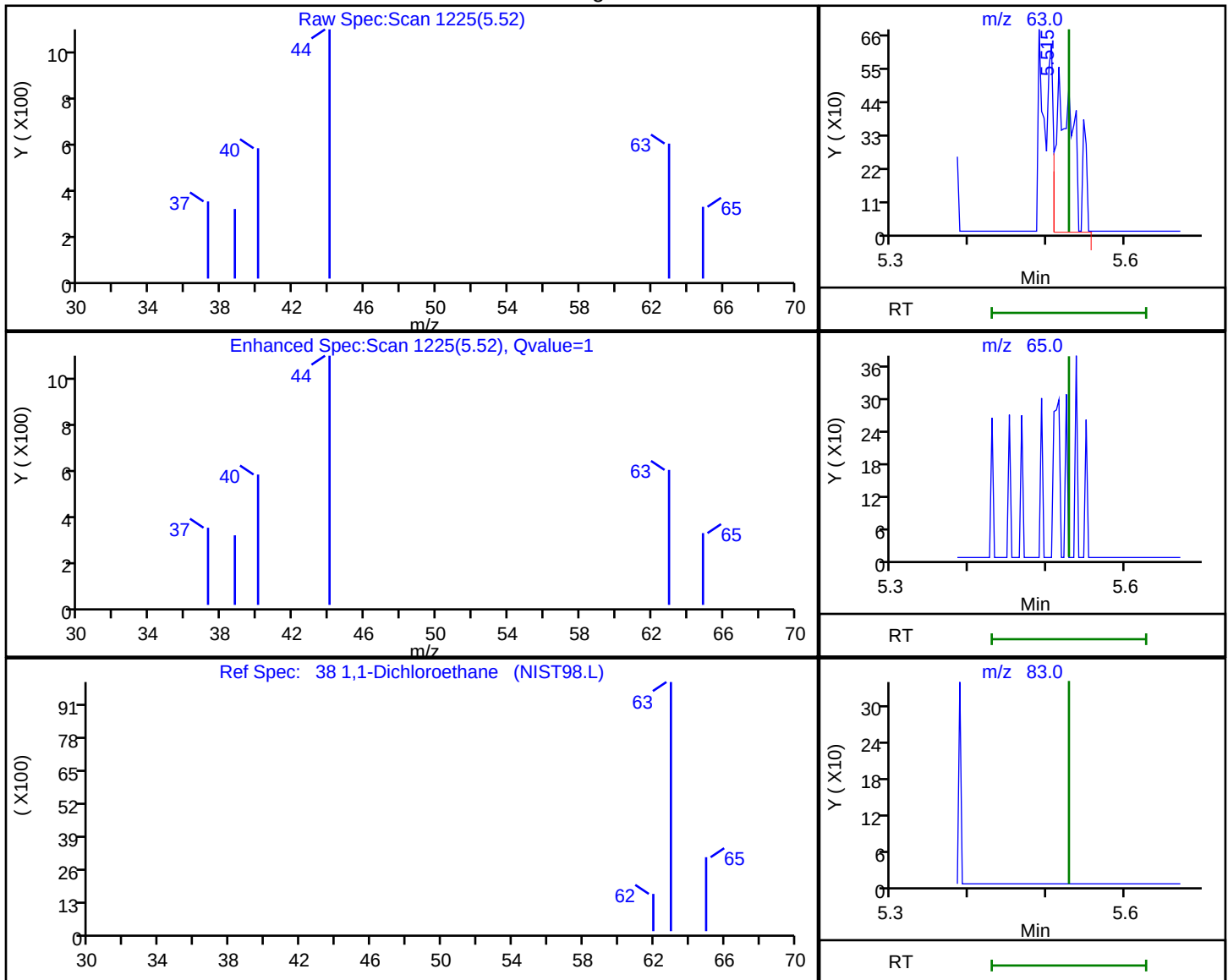
Limit Group: MSV - 8260C_D

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

MS Quad

38 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



RT	Mass	Response	Amount
5.52	63.00	843	0.119689
5.53	65.00	0	
5.53	83.00	0	

Reviewer: FQ4L, 08-Jul-2024 15:44:03 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.: 410-177863-1

SDG No.:

Client Sample ID: HD-MW-6-0/1-0

Lab Sample ID: 410-177863-6

Matrix: Water

Lab File ID: WL07X17.D

Analysis Method: 8260D

Date Collected: 06/25/2024 13:00

Sample wt/vol: 5(mL)

Date Analyzed: 07/08/2024 01:37

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 525333

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30
108-88-3	Toluene	ND		1.0	0.30

FORM I

GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No. :

Client Sample ID: HD-MW-6-0/1-0

Lab Sample ID: 410-177863-6

Matrix: Water

Lab File ID: WL07X17.D

Analysis Method: 8260D

Date Collected: 06/25/2024 13:00

Sample wt/vol: 5 (mL)

Date Analyzed: 07/08/2024 01:37

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 525333

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		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\9137\20240707-118658.b\WL07X17.D
 Lims ID: 410-177863-A-6
 Client ID: HD-MW-6-0/1-0
 Sample Type: Client
 Inject. Date: 08-Jul-2024 01:37:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0118658-018
 Misc. Info.: 410-177863-A-6
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Jul-2024 15:43:45 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1632

First Level Reviewer: FQ4L

Date: 08-Jul-2024 15:43:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.242				ND	
8 Vinyl chloride	62		2.364				ND	
11 Bromomethane	94		2.733				ND	
12 Chloroethane	64		2.823				ND	
21 1,1-Dichloroethene	96		3.750				ND	
20 Acetone	58		3.782				ND	
26 Carbon disulfide	76		4.090				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.485	4.453	0.032	1	243406	250.0	
30 Methylene Chloride	84		4.456				ND	
36 Methyl tert-butyl ether	73		4.848				ND	
35 trans-1,2-Dichloroethene	96		4.854				ND	
38 1,1-Dichloroethane	63		5.528				ND	
44 2-Butanone (MEK)	43		6.324				ND	U
43 cis-1,2-Dichloroethene	96		6.353				ND	
50 Chlorobromomethane	128		6.683				ND	
52 Chloroform	83		6.834				ND	
\$ 54 Dibromofluoromethane (Surr)	113	7.039	7.046	-0.007	91	200373	52.6	
55 1,1,1-Trichloroethane	97		7.062				ND	
58 Carbon tetrachloride	117		7.270				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.505	7.502	0.003	69	48668	51.0	
61 Benzene	78		7.537				ND	
62 1,2-Dichloroethane	62		7.611				ND	
* 65 Fluorobenzene (IS)	96	7.935	7.944	-0.009	99	764674	50.0	
68 Trichloroethene	95		8.413				ND	
71 1,2-Dichloropropane	63		8.756				ND	
77 Dichlorobromomethane	83		9.090				ND	
81 cis-1,3-Dichloropropene	75		9.623				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.802				ND	
\$ 84 Toluene-d8 (Surr)	98	9.921	9.921	0.000	94	726419	50.2	
85 Toluene	92		9.998				ND	
86 trans-1,3-Dichloropropene	75		10.252				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 1,1,2-Trichloroethane	97		10.451				ND	
90 Tetrachloroethene	166		10.531				ND	
94 2-Hexanone	43		10.666				ND	
96 Chlorodibromomethane	129		10.820				ND	
98 Ethylene Dibromide	107		10.929				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.355	11.355	0.000	85	528329	50.0	
102 Chlorobenzene	112		11.381				ND	
104 1,1,1,2-Tetrachloroethane	131		11.465				ND	
105 Ethylbenzene	91		11.465				ND	7
106 m-Xylene & p-Xylene	106		11.580				ND	
108 o-Xylene	106		11.907				ND	
109 Styrene	104		11.923				ND	
110 Bromoform	173		12.081				ND	7
\$ 114 4-Bromofluorobenzene (Surr)	95	12.347	12.347	0.000	91	260777	49.6	
116 1,1,2,2-Tetrachloroethane	83		12.450				ND	
* 133 1,4-Dichlorobenzene-d4	152	13.226	13.226	0.000	94	353202	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00029

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X17.D

Injection Date: 08-Jul-2024 01:37:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: 410-177863-A-6

Lab Sample ID: 410-177863-6

Worklist Smp#: 18

Client ID: HD-MW-6-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

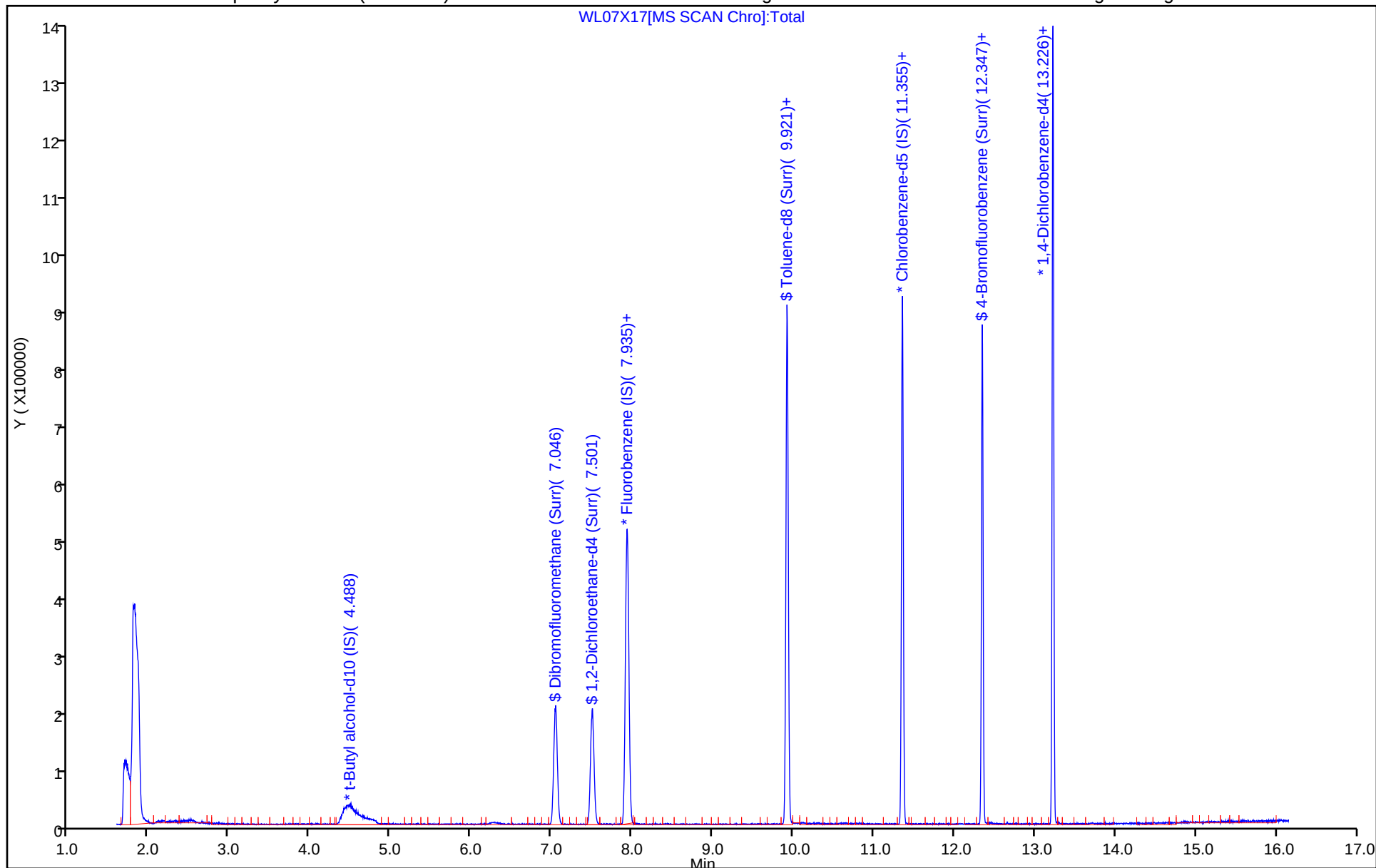
ALS Bottle#: 17

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X17.D
Lims ID: 410-177863-A-6
Client ID: HD-MW-6-0/1-0
Sample Type: Client
Inject. Date: 08-Jul-2024 01:37:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118658-018
Misc. Info.: 410-177863-A-6
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2024 15:43:45 Calib Date: 03-Jun-2024 23:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: FQ4L

Date: 08-Jul-2024 15:43:45

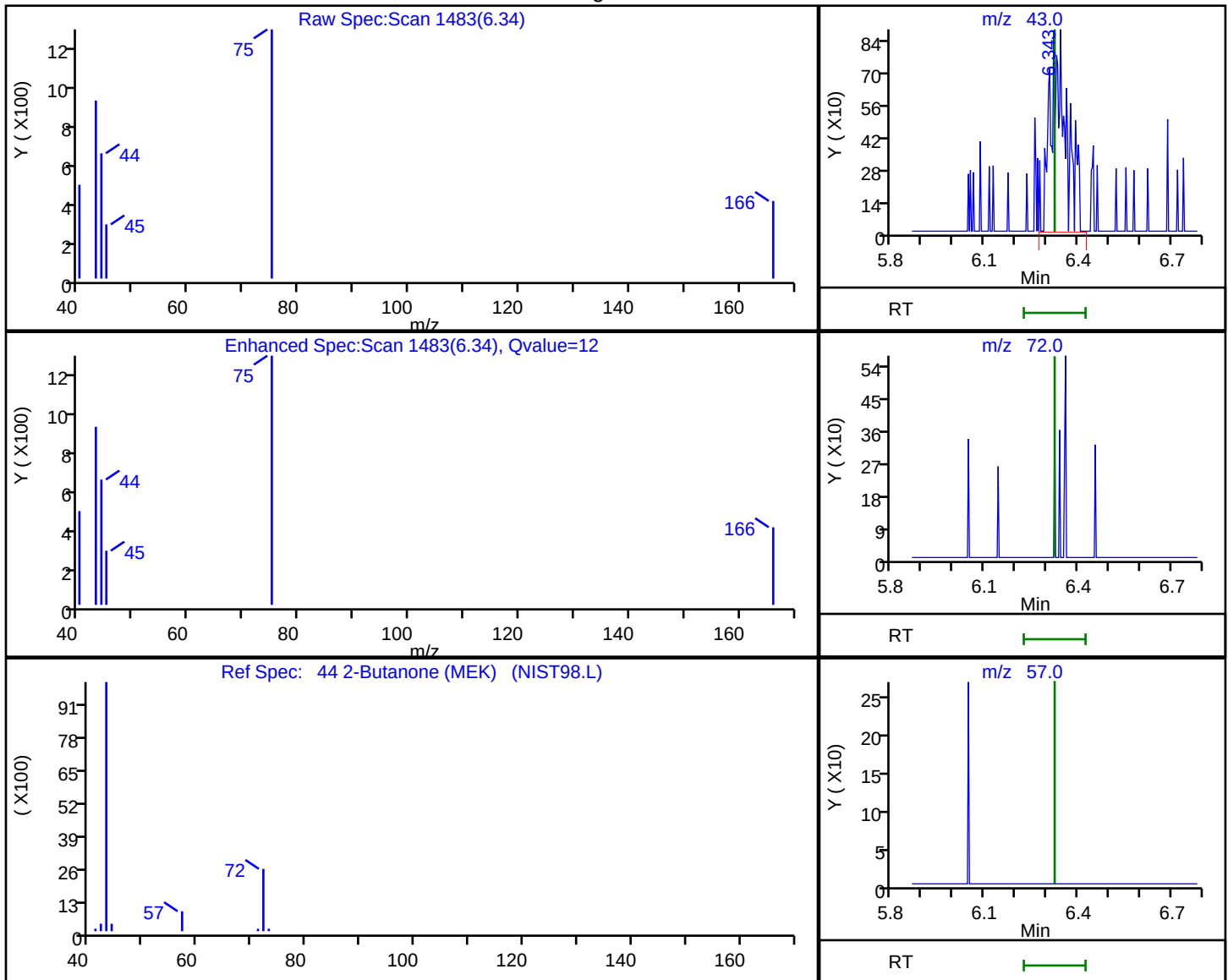
Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	52.6	105.20
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	51.0	101.95
\$ 84 Toluene-d8 (Surr)	50.0	50.2	100.44
\$ 114 4-Bromofluorobenzene (Surr)	50.0	49.6	99.30

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X17.D
Injection Date: 08-Jul-2024 01:37:30 Instrument ID: 9137
Lims ID: 410-177863-A-6 Lab Sample ID: 410-177863-6
Client ID: HD-MW-6-0/1-0
Operator ID: gaw91131 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.34	43.00	3114	0.816597
6.32	72.00	0	
6.32	57.00	0	

Reviewer: FQ4L, 08-Jul-2024 15:43:34 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.: 410-177863-1

SDG No.:

Client Sample ID: HD-MW-5-0/1-0

Lab Sample ID: 410-177863-7

Matrix: Water

Lab File ID: WL07X18.D

Analysis Method: 8260D

Date Collected: 06/25/2024 13:58

Sample wt/vol: 5(mL)

Date Analyzed: 07/08/2024 01:59

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 525333

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	2.5		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30
108-88-3	Toluene	ND		1.0	0.30

FORM I

GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No. :

Client Sample ID: HD-MW-5-0/1-0

Lab Sample ID: 410-177863-7

Matrix: Water

Lab File ID: WL07X18.D

Analysis Method: 8260D

Date Collected: 06/25/2024 13:58

Sample wt/vol: 5 (mL)

Date Analyzed: 07/08/2024 01:59

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 525333

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	115		80-120
2037-26-5	Toluene-d8 (Surr)	93		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X18.D
 Lims ID: 410-177863-A-7
 Client ID: HD-MW-5-0/1-0
 Sample Type: Client
 Inject. Date: 08-Jul-2024 01:59:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0118658-019
 Misc. Info.: 410-177863-A-7
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Jul-2024 15:43:17 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1632

First Level Reviewer: FQ4L

Date: 08-Jul-2024 15:43:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.242				ND	
8 Vinyl chloride	62		2.364				ND	
11 Bromomethane	94		2.733				ND	
12 Chloroethane	64		2.823				ND	
21 1,1-Dichloroethene	96		3.750				ND	
20 Acetone	58		3.782				ND	
26 Carbon disulfide	76		4.090				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.453	4.453	0.000	1	245061	250.0	
30 Methylene Chloride	84		4.456				ND	
36 Methyl tert-butyl ether	73		4.848				ND	
35 trans-1,2-Dichloroethene	96		4.854				ND	
38 1,1-Dichloroethane	63		5.528				ND	7
44 2-Butanone (MEK)	43		6.324				ND	U
43 cis-1,2-Dichloroethene	96	6.353	6.353	0.000	76	10968	2.51	
50 Chlorobromomethane	128		6.683				ND	
52 Chloroform	83		6.834				ND	
\$ 54 Dibromofluoromethane (Surr)	113	7.043	7.046	-0.003	92	202638	57.7	
55 1,1,1-Trichloroethane	97		7.062				ND	
58 Carbon tetrachloride	117		7.270				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.501	7.502	-0.001	69	49334	56.0	
61 Benzene	78		7.537				ND	
62 1,2-Dichloroethane	62		7.611				ND	
* 65 Fluorobenzene (IS)	96	7.931	7.944	-0.013	99	705437	50.0	
68 Trichloroethene	95		8.413				ND	7
71 1,2-Dichloropropane	63		8.756				ND	
77 Dichlorobromomethane	83		9.090				ND	
81 cis-1,3-Dichloropropene	75		9.623				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.802				ND	7
\$ 84 Toluene-d8 (Surr)	98	9.921	9.921	0.000	94	723408	46.7	
85 Toluene	92		9.998				ND	
86 trans-1,3-Dichloropropene	75		10.252				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 1,1,2-Trichloroethane	97		10.451				ND	
90 Tetrachloroethene	166		10.531				ND	
94 2-Hexanone	43		10.666				ND	
96 Chlorodibromomethane	129		10.820				ND	
98 Ethylene Dibromide	107		10.929				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.355	11.355	0.000	85	566098	50.0	
102 Chlorobenzene	112		11.381				ND	
104 1,1,1,2-Tetrachloroethane	131		11.465				ND	
105 Ethylbenzene	91		11.465				ND	
106 m-Xylene & p-Xylene	106		11.580				ND	
108 o-Xylene	106		11.907				ND	
109 Styrene	104		11.923				ND	
110 Bromoform	173		12.081				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.347	12.347	0.000	91	263633	46.8	
116 1,1,2,2-Tetrachloroethane	83		12.450				ND	
* 133 1,4-Dichlorobenzene-d4	152	13.226	13.226	0.000	94	330079	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00029

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-Jul-2024 15:43:17

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X18.D

Injection Date: 08-Jul-2024 01:59:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: 410-177863-A-7

Lab Sample ID: 410-177863-7

Worklist Smp#: 19

Client ID: HD-MW-5-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

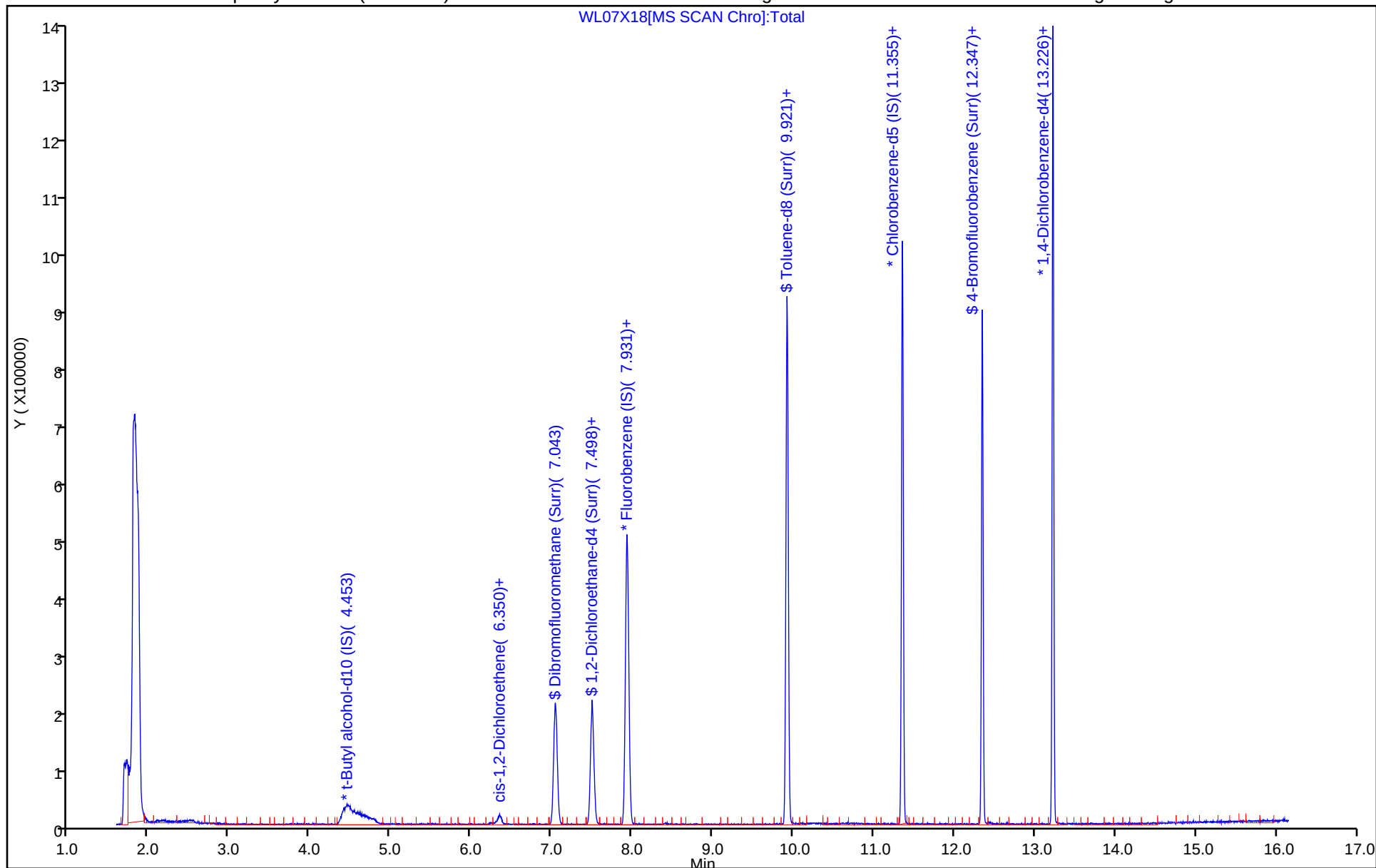
ALS Bottle#: 18

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X18.D
Lims ID: 410-177863-A-7
Client ID: HD-MW-5-0/1-0
Sample Type: Client
Inject. Date: 08-Jul-2024 01:59:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118658-019
Misc. Info.: 410-177863-A-7
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2024 15:43:17 Calib Date: 03-Jun-2024 23:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: FQ4L

Date: 08-Jul-2024 15:43:17

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	57.7	115.32
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	56.0	112.03
\$ 84 Toluene-d8 (Surr)	50.0	46.7	93.35
\$ 114 4-Bromofluorobenzene (Surr)	50.0	46.8	93.69

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X18.D

Injection Date: 08-Jul-2024 01:59:30

Instrument ID: 9137

Lims ID: 410-177863-A-7

Lab Sample ID: 410-177863-7

Client ID: HD-MW-5-0/1-0

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 5.000 mL

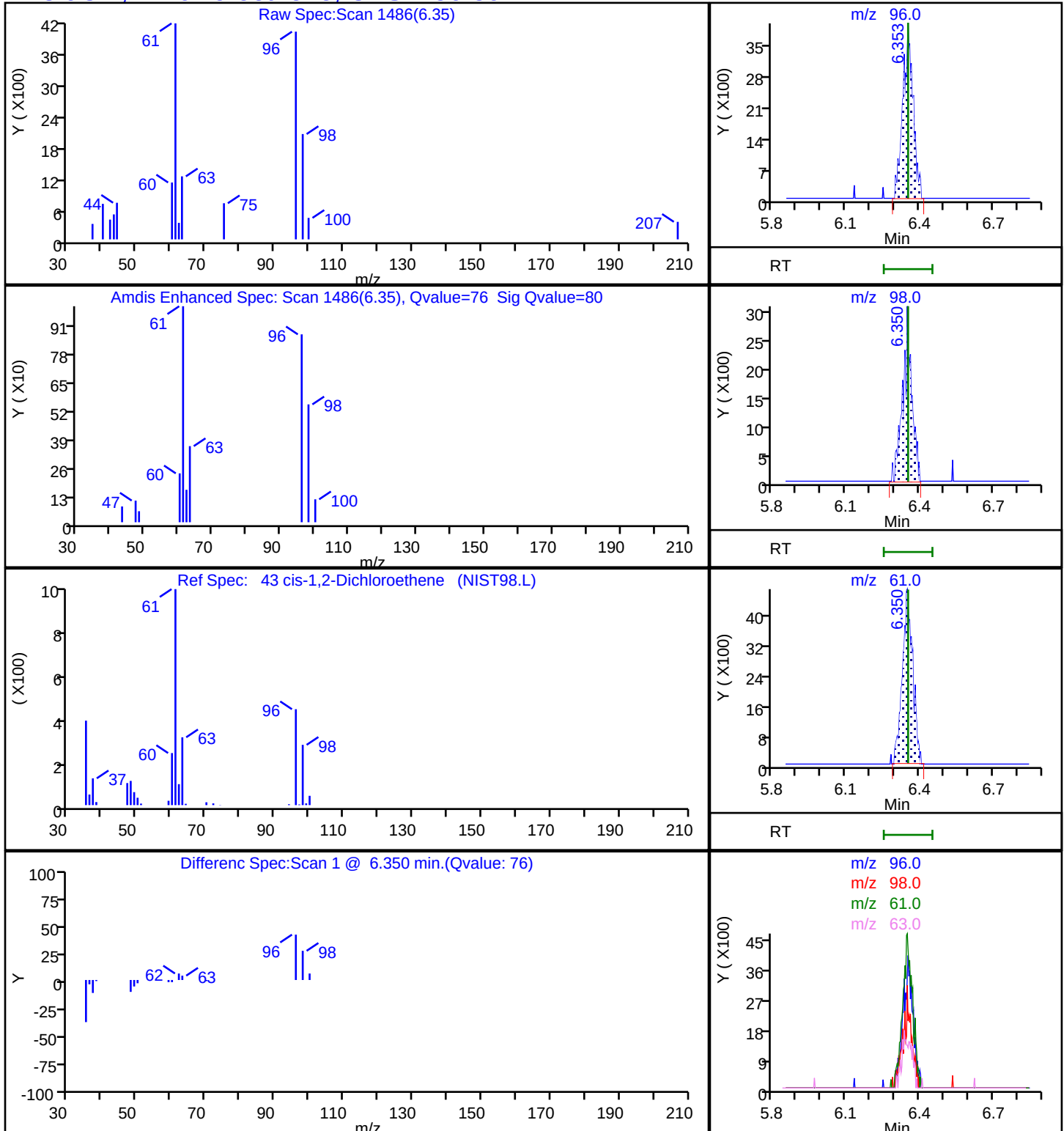
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

MS Quad

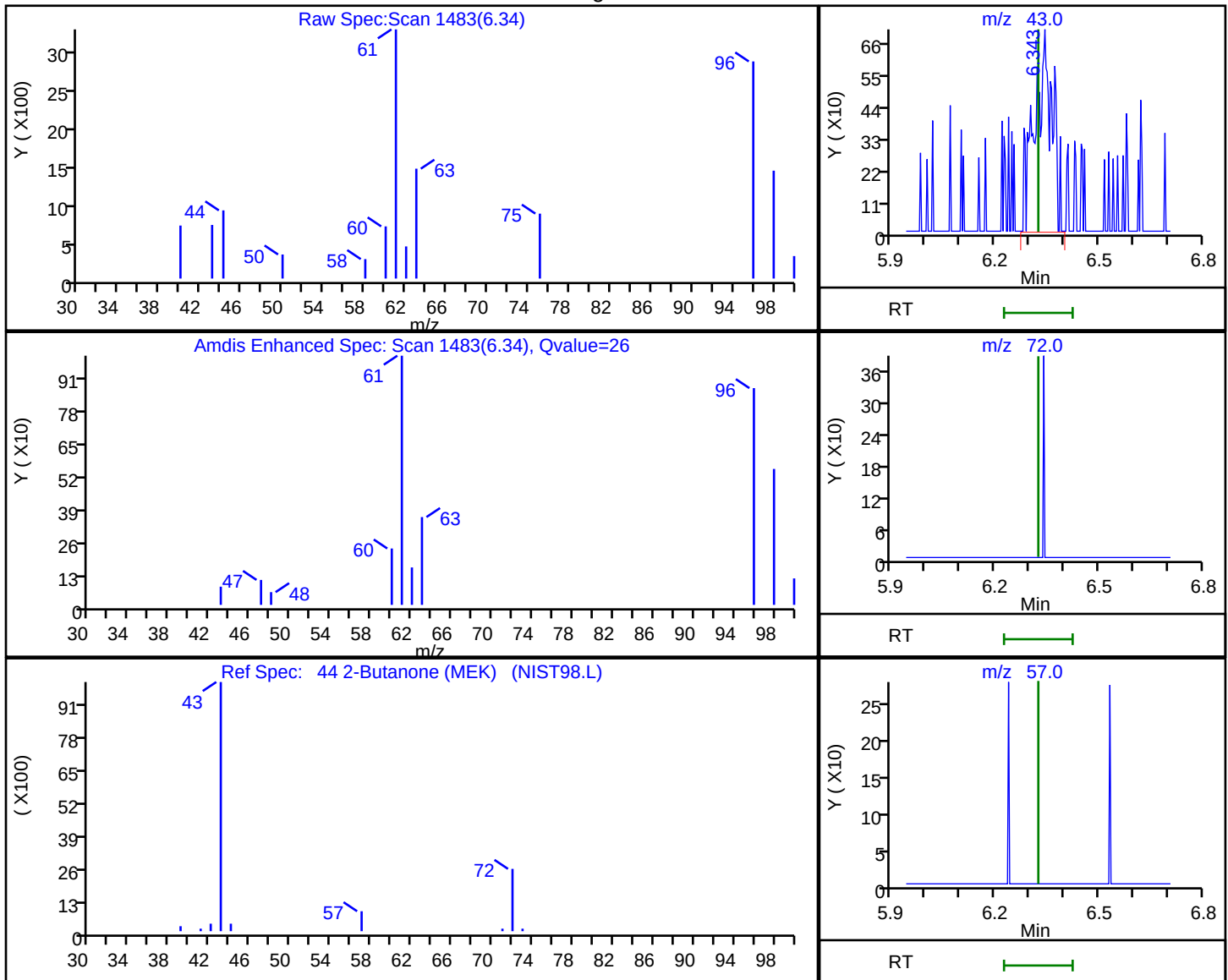
43 cis-1,2-Dichloroethene, CAS: 156-59-2

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X18.D
Injection Date: 08-Jul-2024 01:59:30 Instrument ID: 9137
Lims ID: 410-177863-A-7 Lab Sample ID: 410-177863-7
Client ID: HD-MW-5-0/1-0
Operator ID: gaw91131 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.34	43.00	2512	0.714047
6.32	72.00	0	
6.32	57.00	0	

Reviewer: FQ4L, 08-Jul-2024 15:43:00 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.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 17:42 Calibration End Date: 06/03/2024 19:32 Calibration ID: 62397

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-513039/3	WU03X02.D
Level 2	IC 410-513039/4	WU03X03.D
Level 3	IC 410-513039/5	WU03X04.D
Level 4	IC 410-513039/6	WU03X05.D
Level 5	IC 410-513039/7	WU03X06.D
Level 6	IC 410-513039/8	WU03X07.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	0.2593 0.2445	0.2822	0.2533	0.2522	0.2445	Ave		0.256 0				5.5		20.0			
Chlorodifluoromethane	8.2847 7.4823	8.8954	8.1400	8.0242	7.4980	Ave		8.054 1				6.6		20.0			
Freon 133a	0.5358 0.4862	0.5957	0.5078	0.5058	0.5000	Ave		0.521 9				7.6		20.0			
Ethyl ether	0.2260 0.2260	0.2332	0.2247	0.2211	0.2231	Ave		0.225 7				1.8		20.0			
Acetonitrile	1.3846 1.0282	1.1695	1.1316	1.0257	1.0052	Ave		1.124 1				12.8		20.0			
Vinyl acetate	0.6045 0.6522	0.6385	0.6119	0.6246	0.6266	Ave		0.626 4				2.8		20.0			
Ethyl acetate	0.3765 0.3984	0.3970	0.3870	0.3872	0.3895	Ave		0.389 3				2.0		20.0			
Isopropyl acetate	0.7123 0.7453	0.7252	0.7120	0.7145	0.7261	Ave		0.722 6				1.8		20.0			
n-Propyl acetate	0.1495 0.1608	0.1527	0.1513	0.1496	0.1551	Ave		0.153 2				2.8		20.0			
3,4-Dichloro-1-butene	0.3980 0.4351	0.4137	0.3955	0.4049	0.4155	Ave		0.410 4				3.5		20.0			
Butyl acetate	0.7845 0.7892	0.8048	0.7893	0.7831	0.7955	Ave		0.791 1				1.0		20.0			
cis-1,4-Dichloro-2-butene	0.2050 0.2490	0.2234	0.2133	0.2237	0.2411	Ave		0.225 9				7.3		20.0			
Pentachloroethane	0.3927 0.5323	0.4294	0.4044	0.4563	0.4852	Ave		0.450 1				11.7		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 17:42 Calibration End Date: 06/03/2024 19:32 Calibration ID: 62397

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-513039/3	WU03X02.D
Level 2	IC 410-513039/4	WU03X03.D
Level 3	IC 410-513039/5	WU03X04.D
Level 4	IC 410-513039/6	WU03X05.D
Level 5	IC 410-513039/7	WU03X06.D
Level 6	IC 410-513039/8	WU03X07.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	21662 1489240	56941	101910	254659	488122	4.00 300	10.0	20.0	50.0	100
Chlorodifluoromethane	TBA d1 0	Ave	46890 2986307	122859	211926	525058	1024136	4.00 300	10.0	20.0	50.0	100
Freon 133a	FB	Ave	44760 2961176	120199	204321	510788	998187	4.00 300	10.0	20.0	50.0	100
Ethyl ether	FB	Ave	18880 1376536	47039	90418	223292	445328	4.00 300	10.00	20.0	50.0	100.0
Acetonitrile	TBA d1 0	Ave	39184 2051894	80766	147306	335568	686462	20.0 1500	50.0	100	250	500
Vinyl acetate	FB	Ave	50505 3972458	128828	246210	630836	1250998	4.00 300	10.0	20.0	50.0	100
Ethyl acetate	FB	Ave	31455 2426666	80108	155719	391006	777598	4.00 300	10.0	20.0	50.0	100
Isopropyl acetate	FB	Ave	59506 4539117	146322	286498	721594	1449487	4.00 300	10.0	20.0	50.0	100
n-Propyl acetate	FB	Ave	12487 979533	30803	60880	151074	309564	4.00 300	10.0	20.0	50.0	100
3,4-Dichloro-1-butene	CBZ d5	Ave	24021 1998780	60487	115680	299971	606617	4.00 300	10.0	20.0	50.0	100
Butyl acetate	CBZ d5	Ave	47319 3623595	117613	230749	579876	1160754	4.00 300	10.0	20.0	50.0	100
cis-1,4-Dichloro-2-butene	CBZ d5	Ave	12367 1143810	32661	62382	165696	351947	4.00 300	10.0	20.0	50.0	100
Pentachloroethane	DCB d4	Ave	14795 1483076	39287	72348	207014	435901	4.00 300	10.0	20.0	50.0	100

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.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 17:42 Calibration End Date: 06/03/2024 19:32 Calibration ID: 62397

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-513039/3	WU03X02.D
Level 2	IC 410-513039/4	WU03X03.D
Level 3	IC 410-513039/5	WU03X04.D
Level 4	IC 410-513039/6	WU03X05.D
Level 5	IC 410-513039/7	WU03X06.D
Level 6	IC 410-513039/8	WU03X07.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Chlorotrifluoroethene	1.3	10.2	-1.1	-1.5	-4.5	-4.5	50	30	30	30	30	30
Chlorodifluoromethane	2.9	10.4	1.1	-0.4	-6.9	-7.1	50	30	30	30	30	30
Freon 133a	2.7	14.1	-2.7	-3.1	-4.2	-6.8	50	30	30	30	30	30
Ethyl ether	0.1	3.3	-0.4	-2.0	-1.2	0.2	50	30	30	30	30	30
Acetonitrile	23.2	4.0	0.7	-8.8	-10.6	-8.5	50	30	30	30	30	30
Vinyl acetate	-3.5	1.9	-2.3	-0.3	0.0	4.1	50	30	30	30	30	30
Ethyl acetate	-3.3	2.0	-0.6	-0.5	0.1	2.4	50	30	30	30	30	30
Isopropyl acetate	-1.4	0.4	-1.5	-1.1	0.5	3.1	50	30	30	30	30	30
n-Propyl acetate	-2.4	-0.3	-1.2	-2.3	1.2	5.0	50	30	30	30	30	30
3,4-Dichloro-1-butene	-3.0	0.8	-3.6	-1.3	1.2	6.0	50	30	30	30	30	30
Butyl acetate	-0.8	1.7	-0.2	-1.0	0.6	-0.2	50	30	30	30	30	30
cis-1,4-Dichloro-2-butene	-9.3	-1.1	-5.6	-1.0	6.7	10.2	50	30	30	30	30	30
Pentachloroethane	-12.7	-4.6	-10.1	1.4	7.8	18.3	50	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X02.D
 Lims ID: IC sm v4
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 03-Jun-2024 17:42:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105635-003
 Misc. Info.: SM 4
 Operator ID: mec29284 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub42
 Method: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-Jun-2024 13:25:16 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1676

First Level Reviewer: K4WN

Date: 03-Jun-2024 20:23:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Chlorotrifluoroethene	116	1.989	1.995	-0.006	87	21662	4.00	4.05	
5 Chlorodifluoromethane	51	2.040	2.043	-0.003	97	46890	4.00	4.11	
10 2-Chloro-1,1,1-Trifluoroethane	118	2.460	2.467	-0.007	34	44760	4.00	4.11	
16 Ethyl ether	59	3.391	3.388	0.003	92	18880	4.00	4.01	
29 Acetonitrile	41	4.184	4.174	0.010	79	39184	20.0	24.6	M
* 32 t-Butyl alcohol-d10 (IS)	65	4.440	4.453	-0.013	27	353741	250.0	250.0	
39 Vinyl acetate	43	5.518	5.515	0.003	93	50505	4.00	3.86	
46 Ethyl acetate	43	6.385	6.385	0.000	98	31455	4.00	3.87	
63 Isopropyl acetate	43	7.611	7.620	-0.009	97	59506	4.00	3.94	
* 65 Fluorobenzene (IS)	96	7.935	7.935	0.000	99	1044279	50.0	50.0	
76 n-Propyl acetate	61	8.904	8.910	-0.006	97	12487	4.00	3.90	
93 3,4-Dichloro-1-butene	75	10.643	10.646	-0.003	89	24021	4.00	3.88	
97 n-Butyl acetate	43	10.771	10.771	0.000	98	47319	4.00	3.97	
* 101 Chlorobenzene-d5 (IS)	117	11.352	11.352	0.000	85	753944	50.0	50.0	
112 cis-1,4-Dichloro-2-butene	88	12.248	12.251	-0.003	25	12367	4.00	3.63	a
126 Pentachloroethane	167	12.937	12.941	-0.004	86	14795	4.00	3.49	
* 133 1,4-Dichlorobenzene-d4	152	13.220	13.220	0.000	95	470886	50.0	50.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_Penta_00050	Amount Added: 4.00	Units: uL
MSV_CCV_EE_00007	Amount Added: 4.00	Units: uL
MSV_CCV_V5ACE_00036	Amount Added: 4.00	Units: uL
MSV_Cent_ISO_00005	Amount Added: 5.00	Units: uL
MSV_CCV_LKB_00009	Amount Added: 4.00	Units: uL
MSV_V_SMFreon_00039	Amount Added: 2.00	Units: uL

Report Date: 04-Jun-2024 13:25:16

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X02.D

Injection Date: 03-Jun-2024 17:42:30

Instrument ID: 9137

Operator ID: mec29284

Lims ID: IC sm v4

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

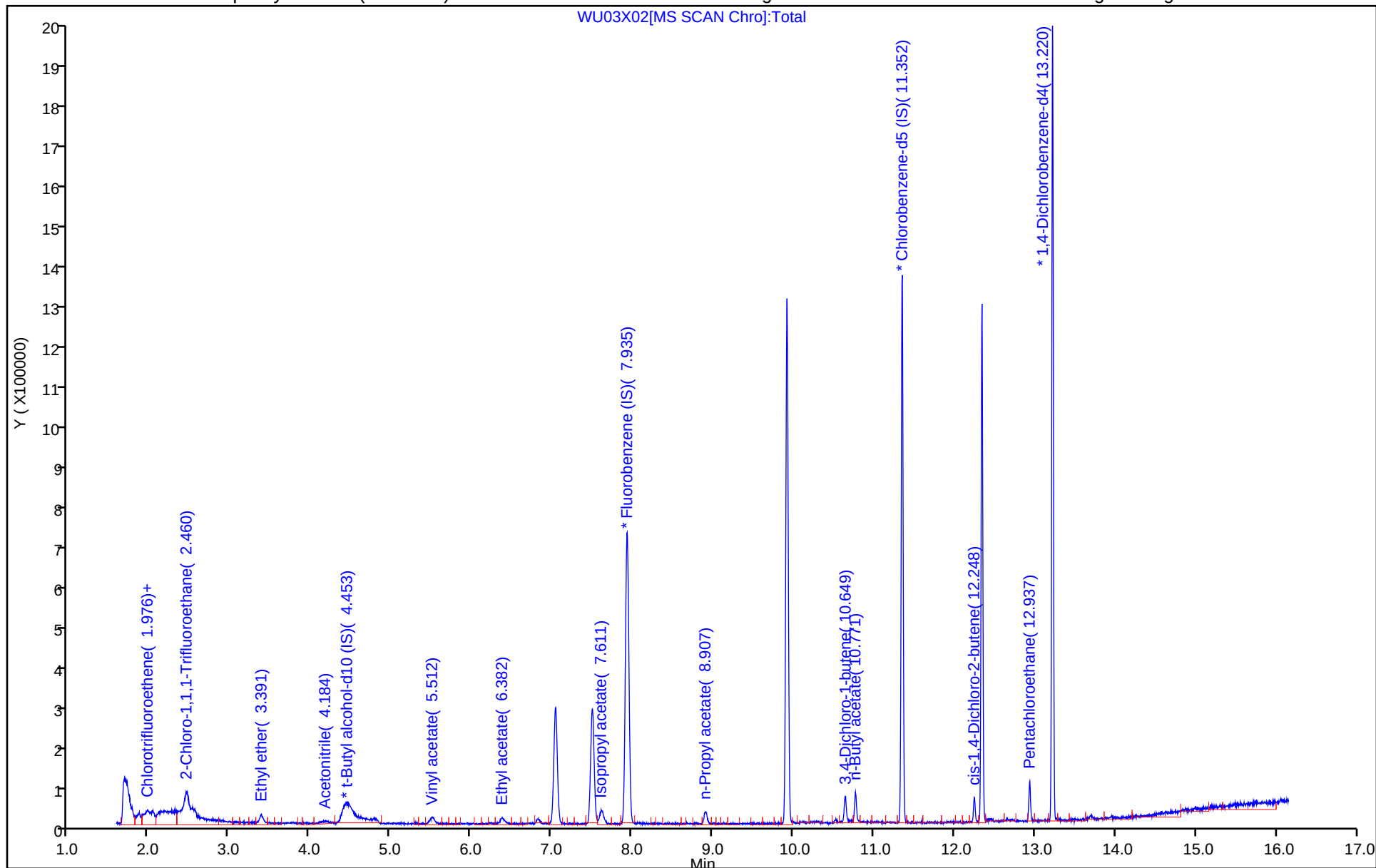
ALS Bottle#: 2

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

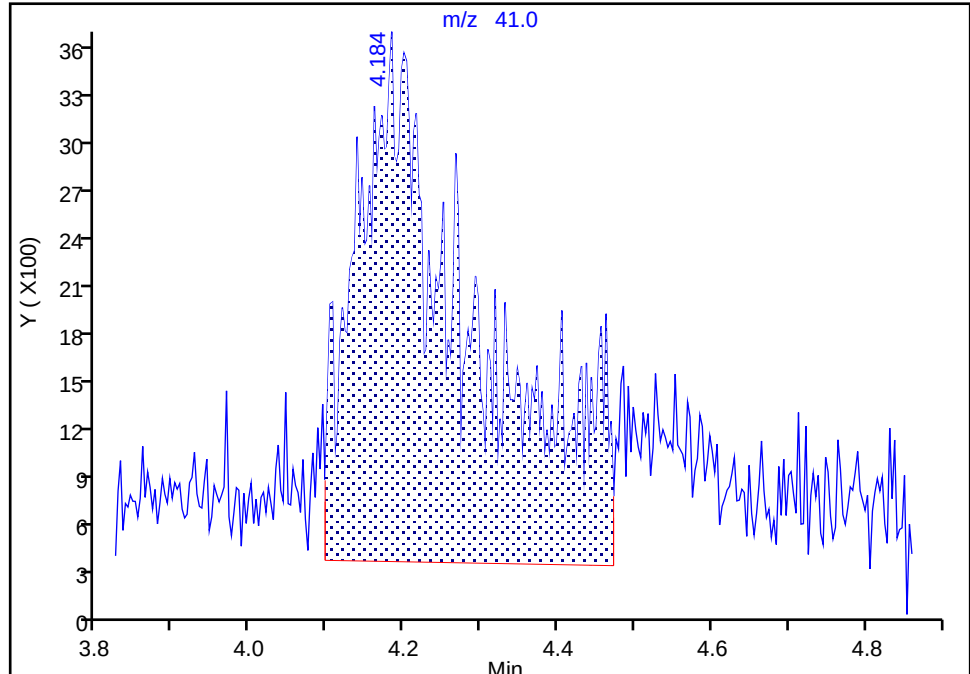
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X02.D
Injection Date: 03-Jun-2024 17:42:30 Instrument ID: 9137
Lims ID: IC sm v4
Client ID:
Operator ID: mec29284 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

29 Acetonitrile, CAS: 75-05-8

Signal: 1

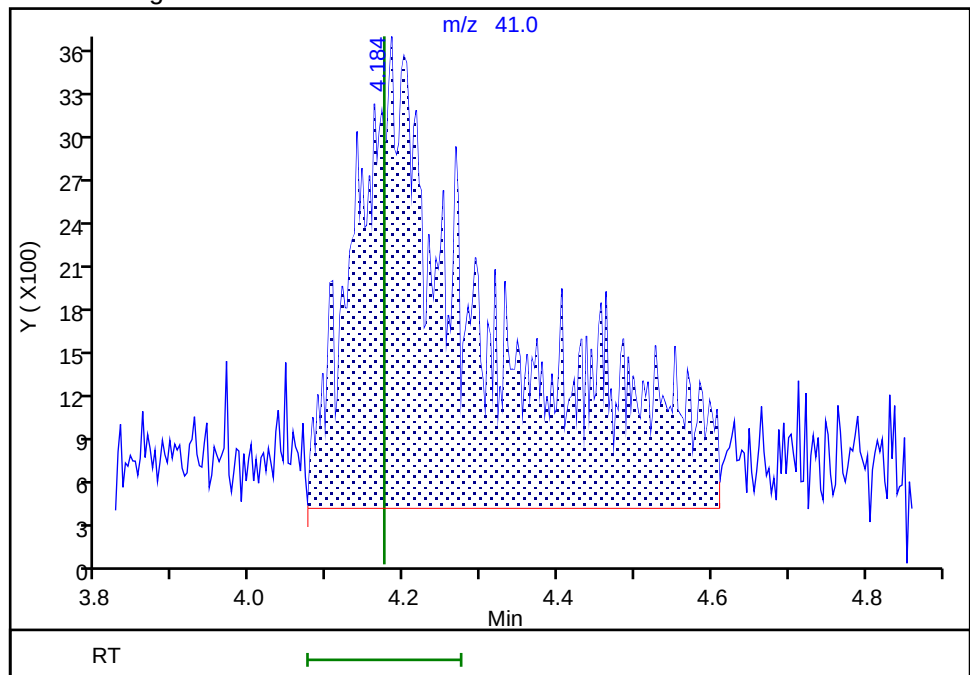
RT: 4.18
Area: 33850
Amount: 24.811047
Amount Units: ug/l

Processing Integration Results



RT: 4.18
Area: 39184
Amount: 24.634612
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 20:23:09 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

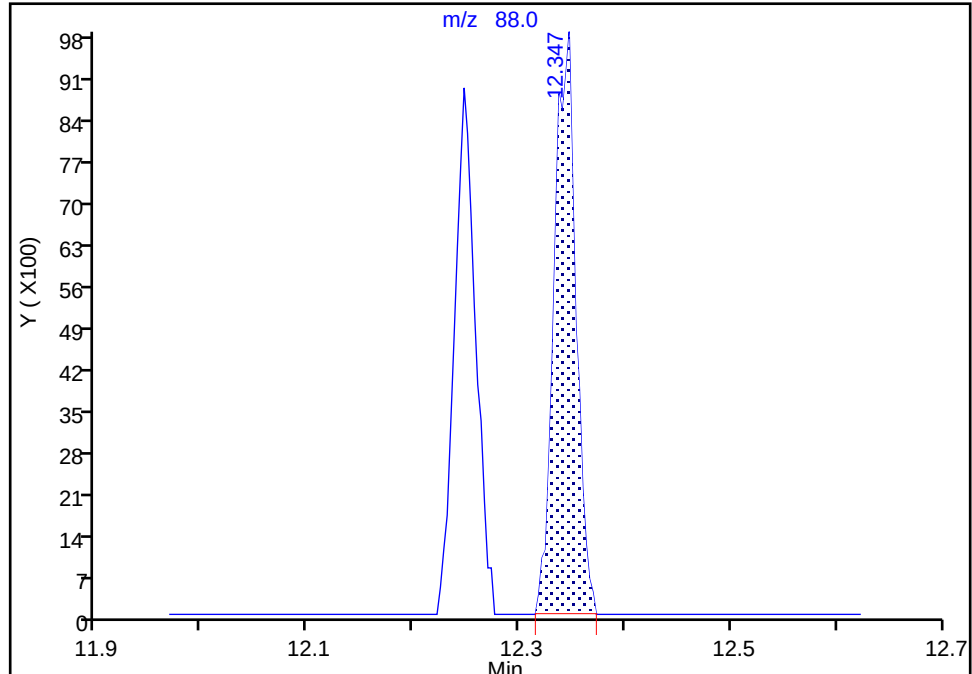
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X02.D
Injection Date: 03-Jun-2024 17:42:30 Instrument ID: 9137
Lims ID: IC sm v4
Client ID:
Operator ID: mec29284 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

112 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

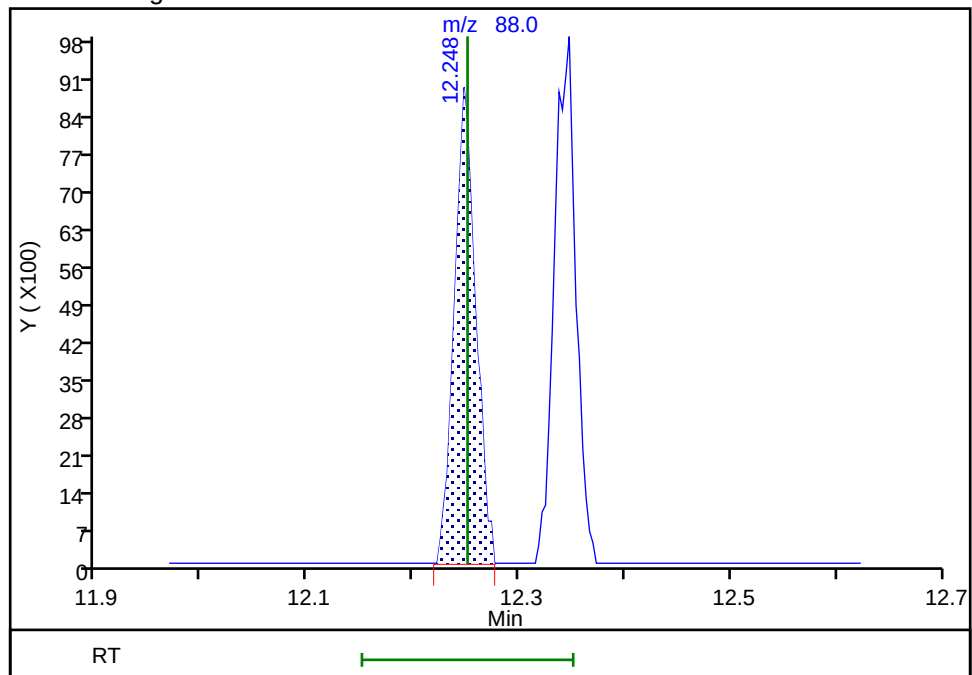
RT: 12.35
Area: 13910
Amount: 12.185638
Amount Units: ug/l

Processing Integration Results



RT: 12.25
Area: 12367
Amount: 3.630328
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 20:22:48 -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\9137\20240603-115635.b\WU03X03.D
 Lims ID: IC sm v10
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 03-Jun-2024 18:04:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105635-004
 Misc. Info.: SM 10
 Operator ID: mec29284 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub42
 Method: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-Jun-2024 13:25:18 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1676

First Level Reviewer: K4WN

Date: 03-Jun-2024 20:24:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Chlorotrifluoroethene	116	1.979	1.995	-0.016	91	56941	10.0	11.0	
5 Chlorodifluoromethane	51	2.037	2.043	-0.006	97	122859	10.0	11.0	
10 2-Chloro-1,1,1-Trifluoroethane	118	2.460	2.467	-0.007	74	120199	10.0	11.4	
16 Ethyl ether	59	3.391	3.388	0.003	87	47039	10.0	10.3	
29 Acetonitrile	41	4.177	4.174	0.003	96	80766	50.0	52.0	M
* 32 t-Butyl alcohol-d10 (IS)	65	4.440	4.453	-0.013	33	345289	250.0	250.0	M
39 Vinyl acetate	43	5.515	5.515	0.000	97	128828	10.0	10.2	
46 Ethyl acetate	43	6.372	6.385	-0.013	98	80108	10.0	10.2	
63 Isopropyl acetate	43	7.610	7.620	-0.010	98	146322	10.0	10.0	
* 65 Fluorobenzene (IS)	96	7.935	7.935	0.000	99	1008857	50.0	50.0	
76 n-Propyl acetate	61	8.907	8.910	-0.003	99	30803	10.0	9.97	
93 3,4-Dichloro-1-butene	75	10.640	10.646	-0.006	89	60487	10.0	10.1	
97 n-Butyl acetate	43	10.774	10.771	0.003	98	117613	10.0	10.2	
* 101 Chlorobenzene-d5 (IS)	117	11.352	11.352	0.000	85	730705	50.0	50.0	
112 cis-1,4-Dichloro-2-butene	88	12.247	12.251	-0.004	26	32661	10.0	9.89	a
126 Pentachloroethane	167	12.937	12.941	-0.004	87	39287	10.0	9.54	
* 133 1,4-Dichlorobenzene-d4	152	13.220	13.220	0.000	95	457474	50.0	50.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_Penta_00050	Amount Added: 2.00	Units: uL
MSV_CCV_EE_00007	Amount Added: 2.00	Units: uL
MSV_CCV_V5ACE_00036	Amount Added: 2.00	Units: uL
MSV_Cent_ISO_00005	Amount Added: 5.00	Units: uL
MSV_CCV_LKB_00009	Amount Added: 2.00	Units: uL
MSV_V_SMFreon_00039	Amount Added: 1.00	Units: uL

Report Date: 04-Jun-2024 13:25:18

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X03.D

Injection Date: 03-Jun-2024 18:04:30

Instrument ID: 9137

Operator ID: mec29284

Lims ID: IC sm v10

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

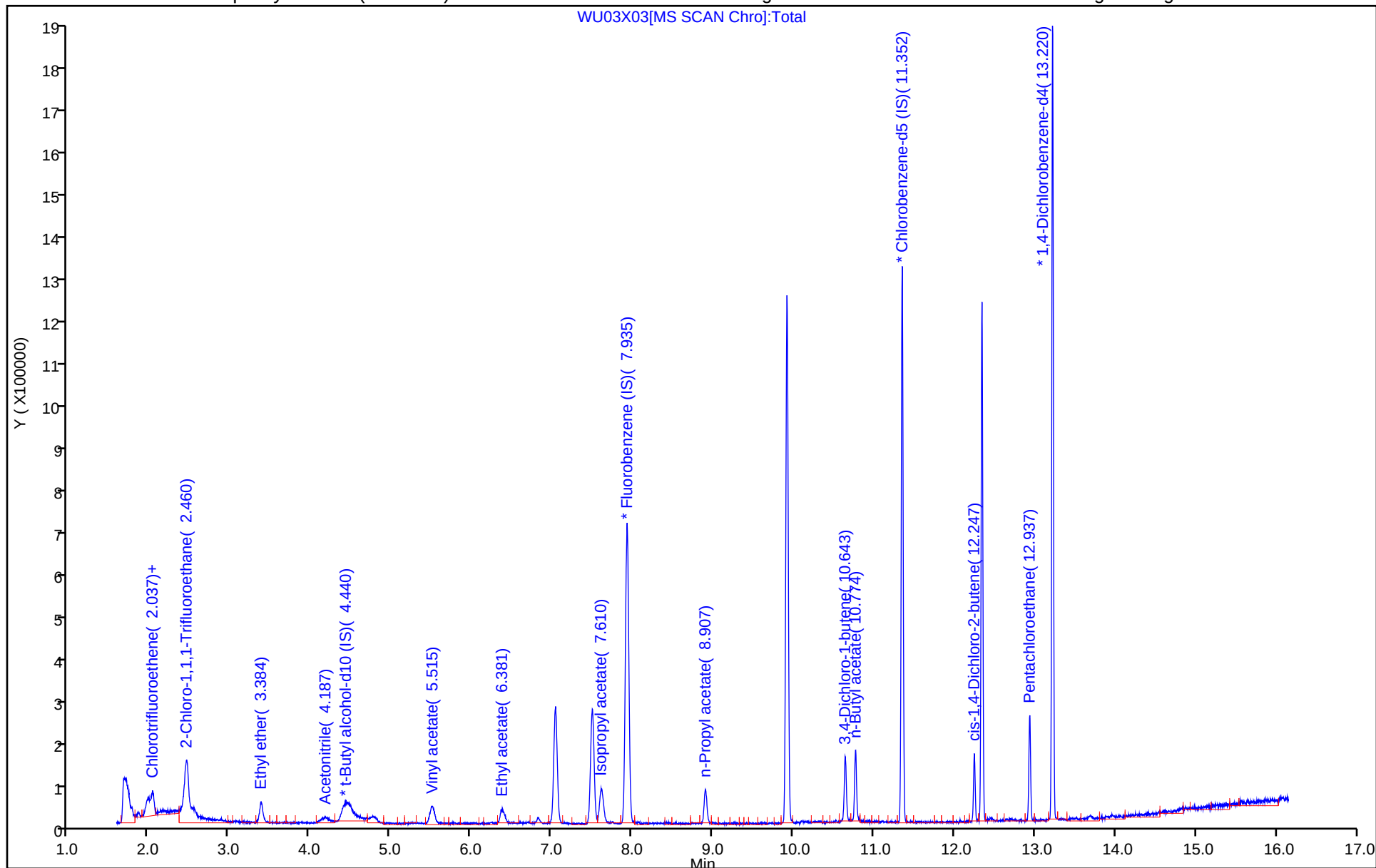
ALS Bottle#: 3

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

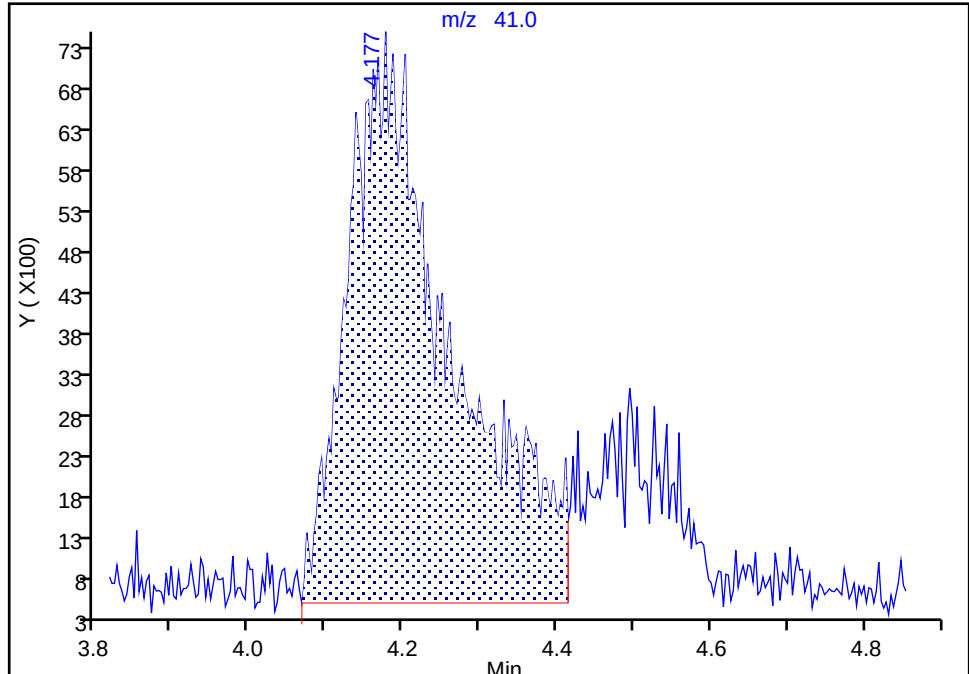
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X03.D
Injection Date: 03-Jun-2024 18:04:30 Instrument ID: 9137
Lims ID: IC sm v10
Client ID:
Operator ID: mec29284 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

29 Acetonitrile, CAS: 75-05-8

Signal: 1

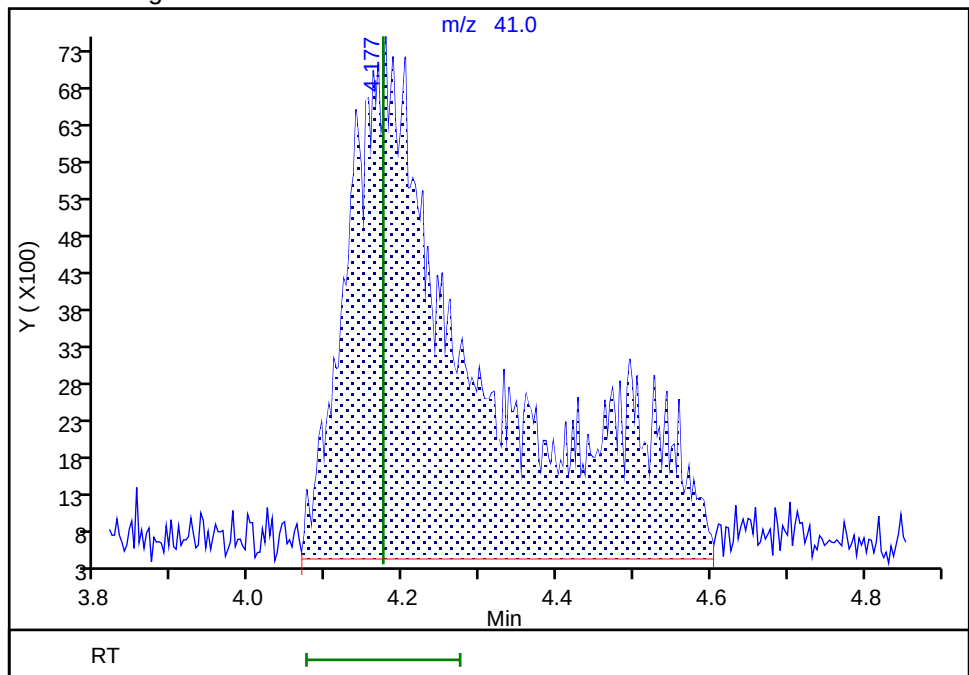
RT: 4.18
Area: 62896
Amount: 53.561423
Amount Units: ug/l

Processing Integration Results



RT: 4.18
Area: 80766
Amount: 52.019741
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 20:23:52 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

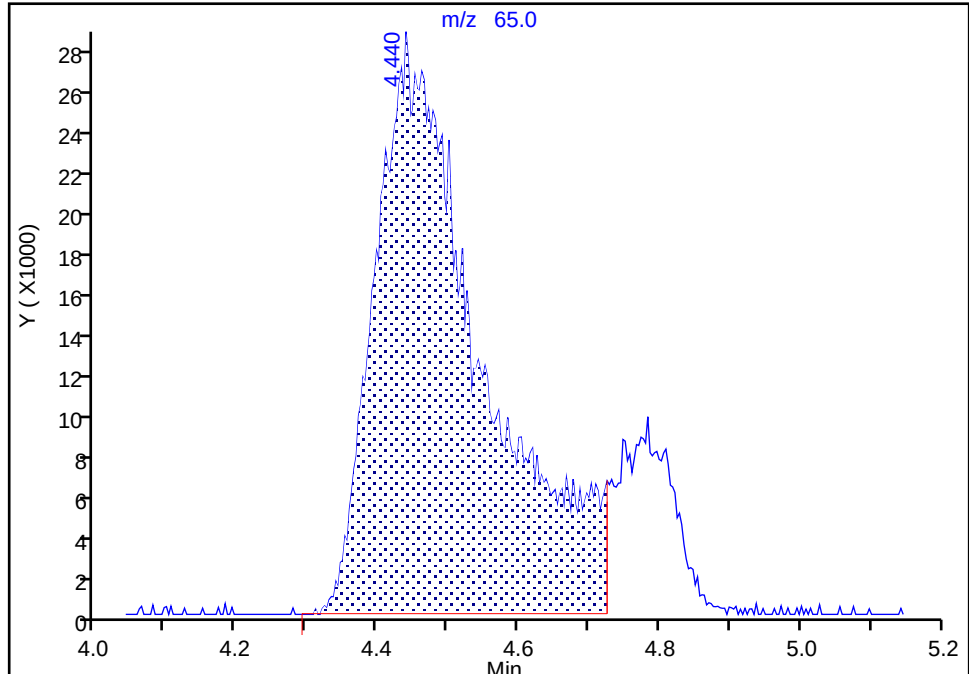
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X03.D
Injection Date: 03-Jun-2024 18:04:30 Instrument ID: 9137
Lims ID: IC sm v10
Client ID:
Operator ID: mec29284 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 32 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

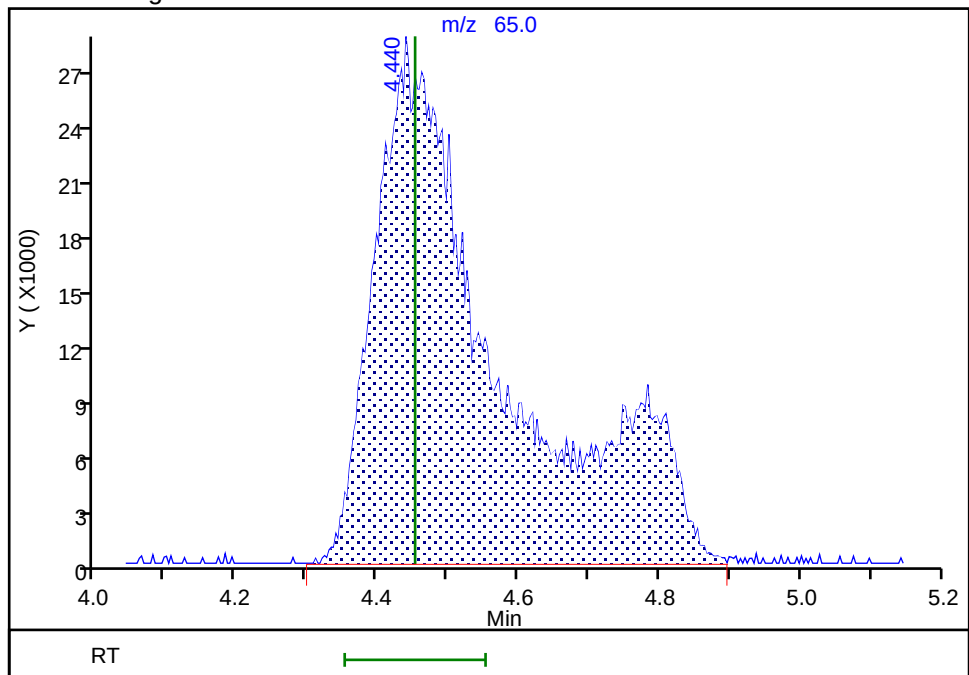
RT: 4.44
Area: 294862
Amount: 250.0000
Amount Units: ug/l

Processing Integration Results



RT: 4.44
Area: 345289
Amount: 250.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 20:24:03 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

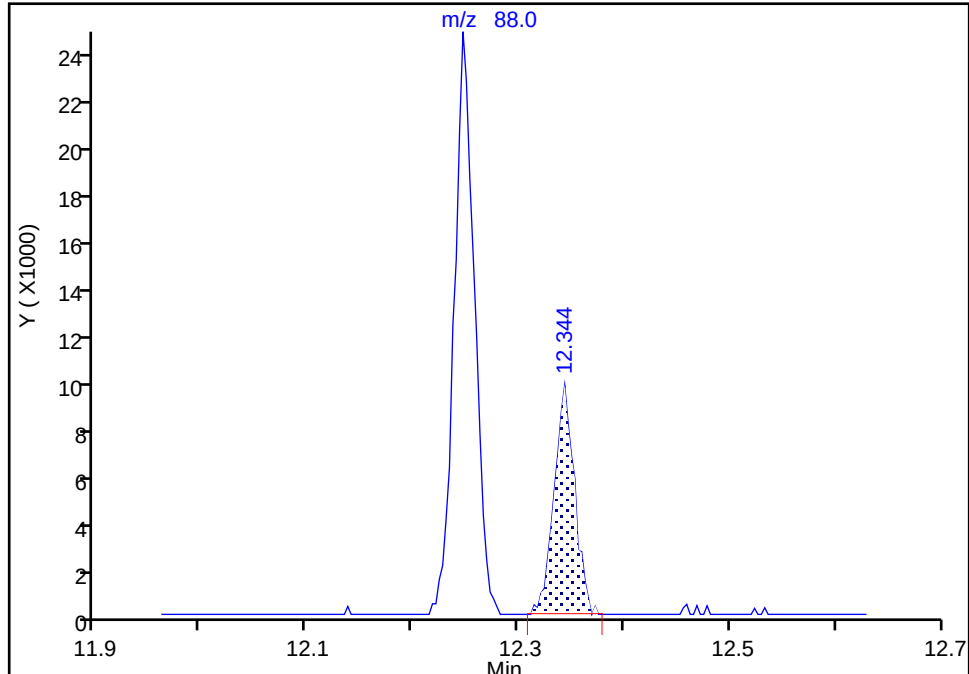
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X03.D
Injection Date: 03-Jun-2024 18:04:30 Instrument ID: 9137
Lims ID: IC sm v10
Client ID:
Operator ID: mec29284 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

112 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

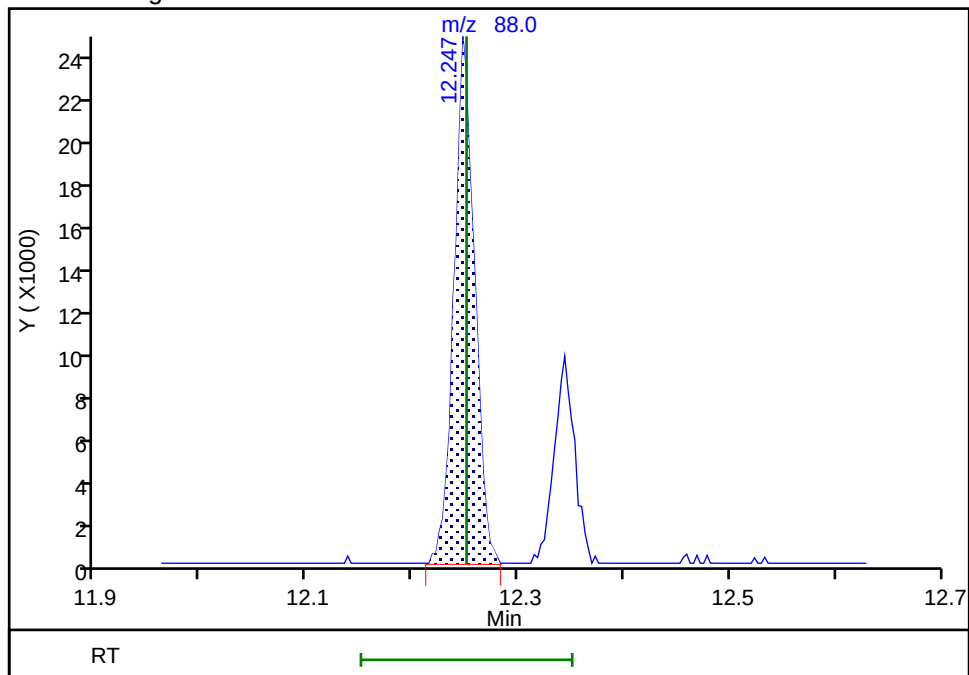
RT: 12.34
Area: 12905
Amount: 12.509973
Amount Units: ug/l

Processing Integration Results



RT: 12.25
Area: 32661
Amount: 9.892544
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 20:24:22 -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\9137\20240603-115635.b\WU03X04.D
 Lims ID: IC sm v20
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 03-Jun-2024 18:26:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105635-005
 Misc. Info.: SM 20
 Operator ID: mec29284 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub42
 Method: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-Jun-2024 13:25:20 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1676

First Level Reviewer: K4WN

Date: 03-Jun-2024 20:21:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Chlorotrifluoroethene	116	1.976	1.995	-0.019	93	101910	20.0	19.8	
5 Chlorodifluoromethane	51	2.046	2.043	0.003	96	211926	20.0	20.2	
10 2-Chloro-1,1,1-Trifluoroethane	118	2.460	2.467	-0.007	47	204321	20.0	19.5	
16 Ethyl ether	59	3.387	3.388	-0.001	90	90418	20.0	19.9	
29 Acetonitrile	41	4.174	4.174	0.000	99	147306	100.0	100.7	M
* 32 t-Butyl alcohol-d10 (IS)	65	4.446	4.453	-0.007	42	325439	250.0	250.0	
39 Vinyl acetate	43	5.505	5.515	-0.010	98	246210	20.0	19.5	
46 Ethyl acetate	43	6.378	6.385	-0.007	98	155719	20.0	19.9	
63 Isopropyl acetate	43	7.620	7.620	0.000	98	286498	20.0	19.7	
* 65 Fluorobenzene (IS)	96	7.934	7.935	-0.001	99	1005918	50.0	50.0	
76 n-Propyl acetate	61	8.910	8.910	0.000	98	60880	20.0	19.8	
93 3,4-Dichloro-1-butene	75	10.643	10.646	-0.003	90	115680	20.0	19.3	
97 n-Butyl acetate	43	10.771	10.771	0.000	98	230749	20.0	20.0	
* 101 Chlorobenzene-d5 (IS)	117	11.352	11.352	0.000	85	730880	50.0	50.0	
112 cis-1,4-Dichloro-2-butene	88	12.250	12.251	-0.001	26	62382	20.0	18.9	a
126 Pentachloroethane	167	12.937	12.941	-0.004	88	72348	20.0	18.0	
* 133 1,4-Dichlorobenzene-d4	152	13.223	13.220	0.003	95	447215	50.0	50.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_Penta_00050	Amount Added: 4.00	Units: uL
MSV_CCV_EE_00007	Amount Added: 4.00	Units: uL
MSV_CCV_V5ACE_00036	Amount Added: 4.00	Units: uL
MSV_Cent_ISO_00005	Amount Added: 5.00	Units: uL
MSV_CCV_LKB_00009	Amount Added: 4.00	Units: uL
MSV_V_SMFreon_00039	Amount Added: 2.00	Units: uL

Report Date: 04-Jun-2024 13:25:20

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X04.D

Injection Date: 03-Jun-2024 18:26:30

Instrument ID: 9137

Operator ID: mec29284

Lims ID: IC sm v20

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

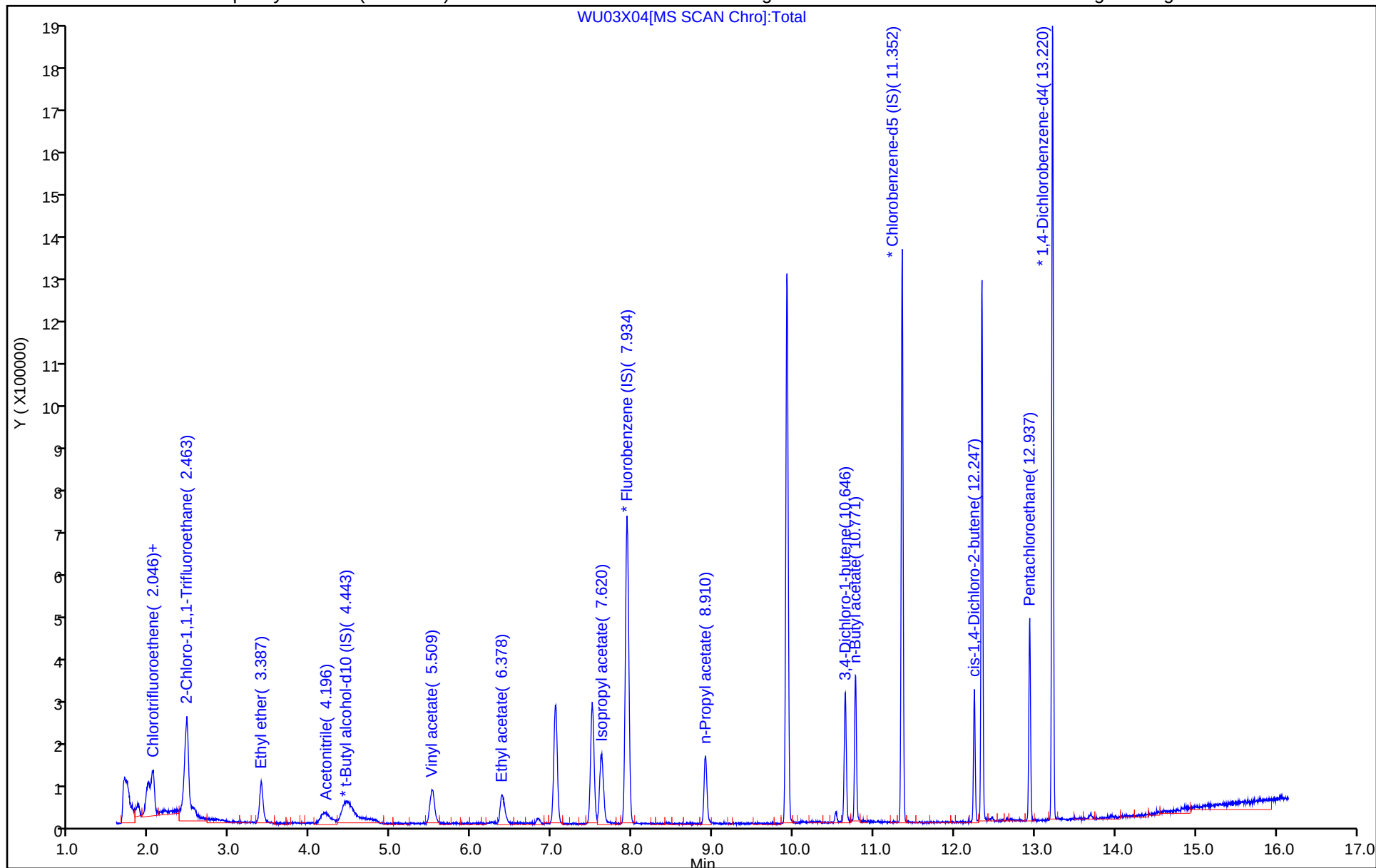
ALS Bottle#: 4

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

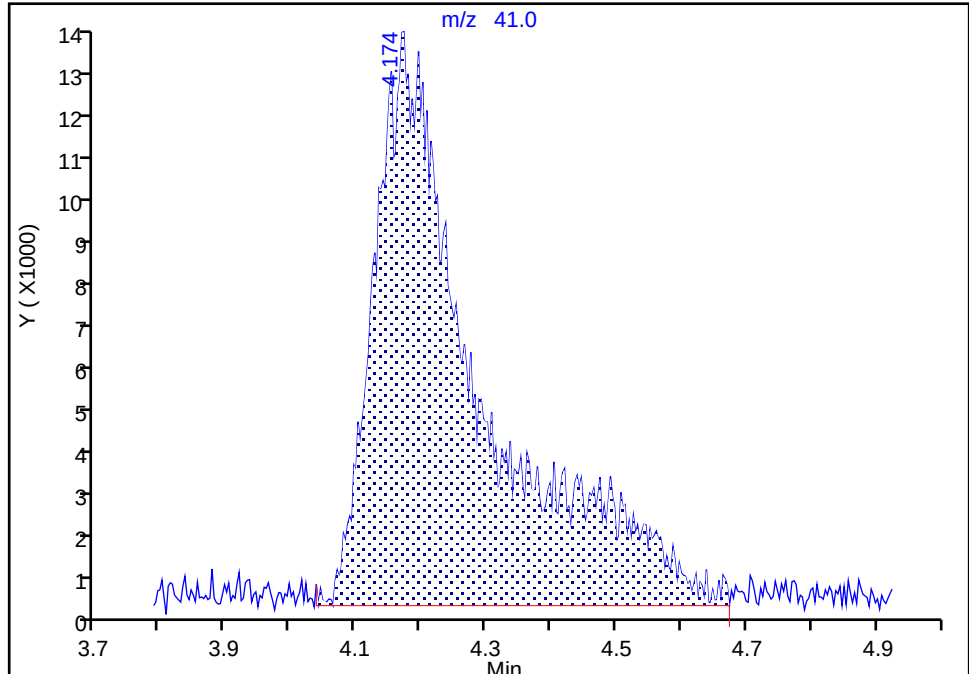
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X04.D
Injection Date: 03-Jun-2024 18:26:30 Instrument ID: 9137
Lims ID: IC sm v20
Client ID:
Operator ID: mec29284 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

29 Acetonitrile, CAS: 75-05-8

Signal: 1

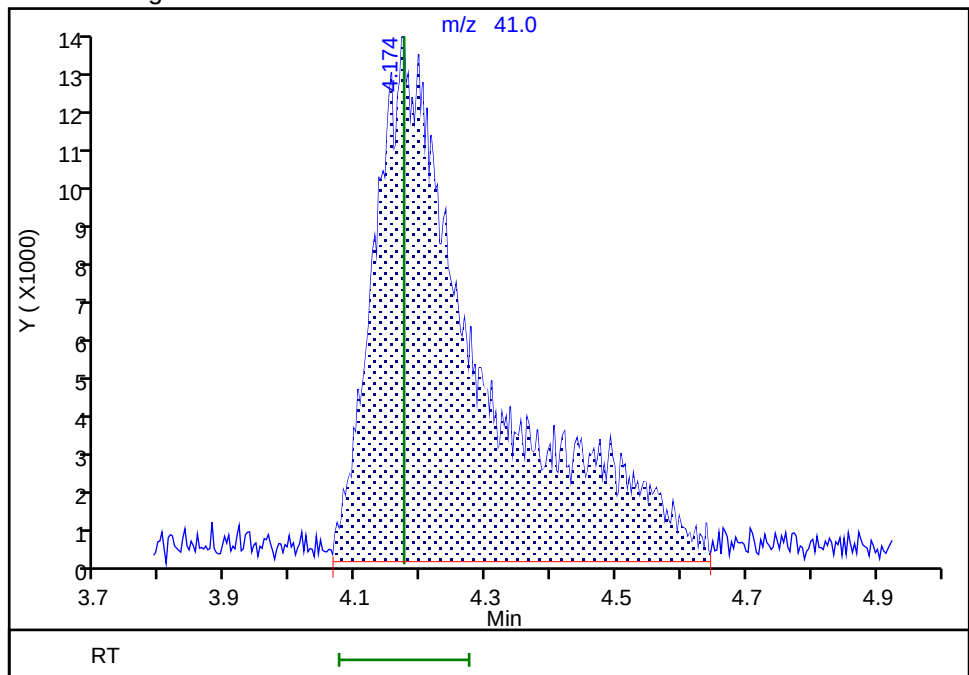
RT: 4.17
Area: 143442
Amount: 108.8002
Amount Units: ug/l

Processing Integration Results



RT: 4.17
Area: 147306
Amount: 100.6638
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 20:25:47 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

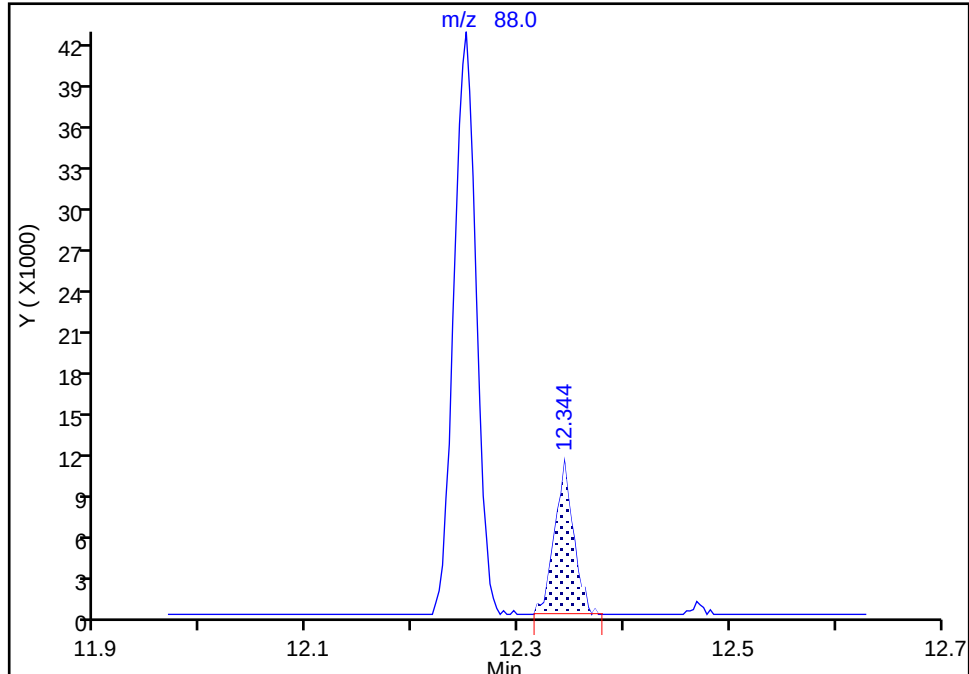
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X04.D
Injection Date: 03-Jun-2024 18:26:30 Instrument ID: 9137
Lims ID: IC sm v20
Client ID:
Operator ID: mec29284 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

112 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

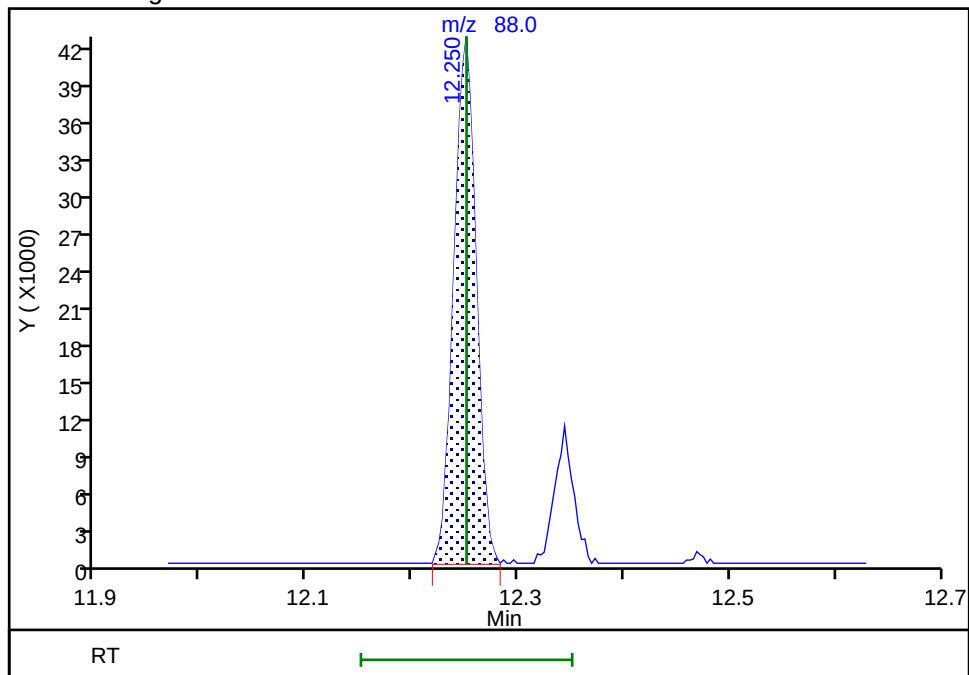
RT: 12.34
Area: 13836
Amount: 9.696543
Amount Units: ug/l

Processing Integration Results



RT: 12.25
Area: 62382
Amount: 18.890081
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 20:25:53 -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\9137\20240603-115635.b\WU03X05.D
 Lims ID: IC sm v50
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 03-Jun-2024 18:48:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105635-006
 Misc. Info.: SM 50
 Operator ID: mec29284 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub42
 Method: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-Jun-2024 13:25:21 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1676

First Level Reviewer: K4WN

Date: 03-Jun-2024 19:24:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Chlorotrifluoroethene	116	1.995	1.995	0.000	93	254659	50.0	49.3	
5 Chlorodifluoromethane	51	2.043	2.043	0.000	97	525058	50.0	49.8	
10 2-Chloro-1,1,1-Trifluoroethane	118	2.467	2.467	0.000	41	510788	50.0	48.5	
16 Ethyl ether	59	3.388	3.388	0.000	90	223292	50.0	49.0	
29 Acetonitrile	41	4.174	4.174	0.000	99	335568	250.0	228.1	M
* 32 t-Butyl alcohol-d10 (IS)	65	4.485	4.485	0.000	27	327171	250.0	250.0	
39 Vinyl acetate	43	5.515	5.515	0.000	98	630836	50.0	49.9	
46 Ethyl acetate	43	6.385	6.385	0.000	99	391006	50.0	49.7	
63 Isopropyl acetate	43	7.620	7.620	0.000	98	721594	50.0	49.4	
* 65 Fluorobenzene (IS)	96	7.935	7.935	0.000	99	1009925	50.0	50.0	
76 n-Propyl acetate	61	8.910	8.910	0.000	98	151074	50.0	48.8	
93 3,4-Dichloro-1-butene	75	10.646	10.646	0.000	92	299971	50.0	49.4	
97 n-Butyl acetate	43	10.771	10.771	0.000	98	579876	50.0	49.5	
* 101 Chlorobenzene-d5 (IS)	117	11.352	11.352	0.000	86	740447	50.0	50.0	
112 cis-1,4-Dichloro-2-butene	88	12.251	12.251	0.000	25	165696	50.0	49.5	a
126 Pentachloroethane	167	12.941	12.941	0.000	90	207014	50.0	50.7	
* 133 1,4-Dichlorobenzene-d4	152	13.220	13.220	0.000	95	453636	50.0	50.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_Penta_00050	Amount Added: 5.00	Units: uL
MSV_CCV_EE_00007	Amount Added: 5.00	Units: uL
MSV_CCV_V5ACE_00036	Amount Added: 5.00	Units: uL
MSV_Cent_ISO_00005	Amount Added: 5.00	Units: uL
MSV_CCV_LKB_00009	Amount Added: 5.00	Units: uL
MSV_V_SMFreon_00039	Amount Added: 2.50	Units: uL

Report Date: 04-Jun-2024 13:25:22

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X05.D

Injection Date: 03-Jun-2024 18:48:30

Instrument ID: 9137

Operator ID: mec29284

Lims ID: IC sm v50

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

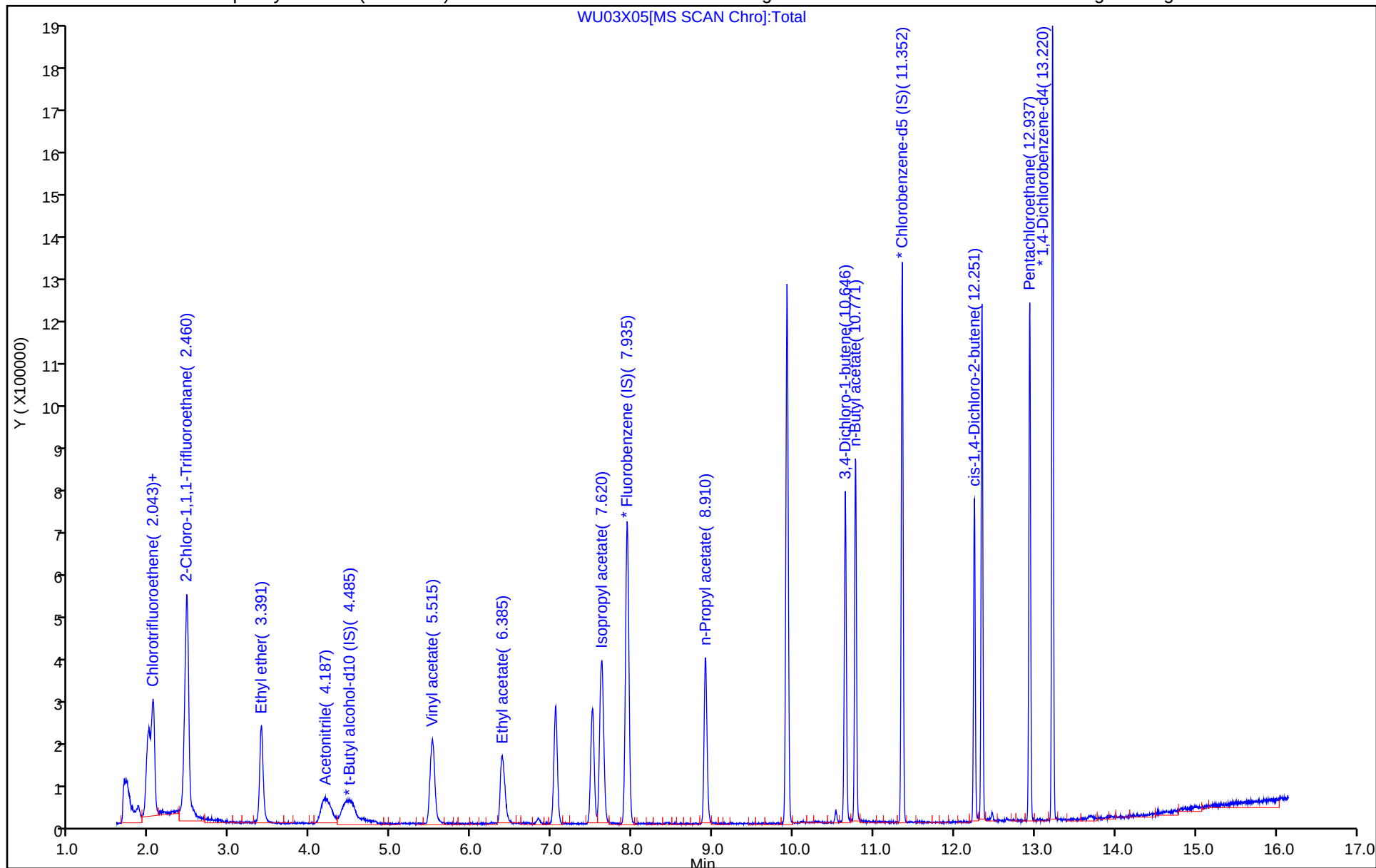
ALS Bottle#: 5

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

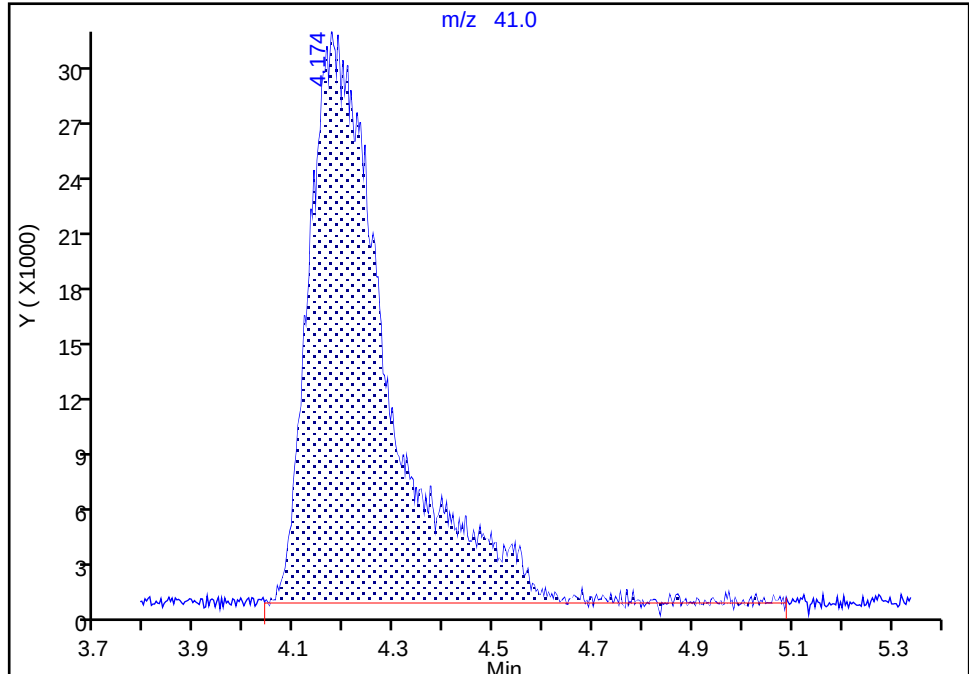
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X05.D
Injection Date: 03-Jun-2024 18:48:30 Instrument ID: 9137
Lims ID: IC sm v50
Client ID:
Operator ID: mec29284 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

29 Acetonitrile, CAS: 75-05-8

Signal: 1

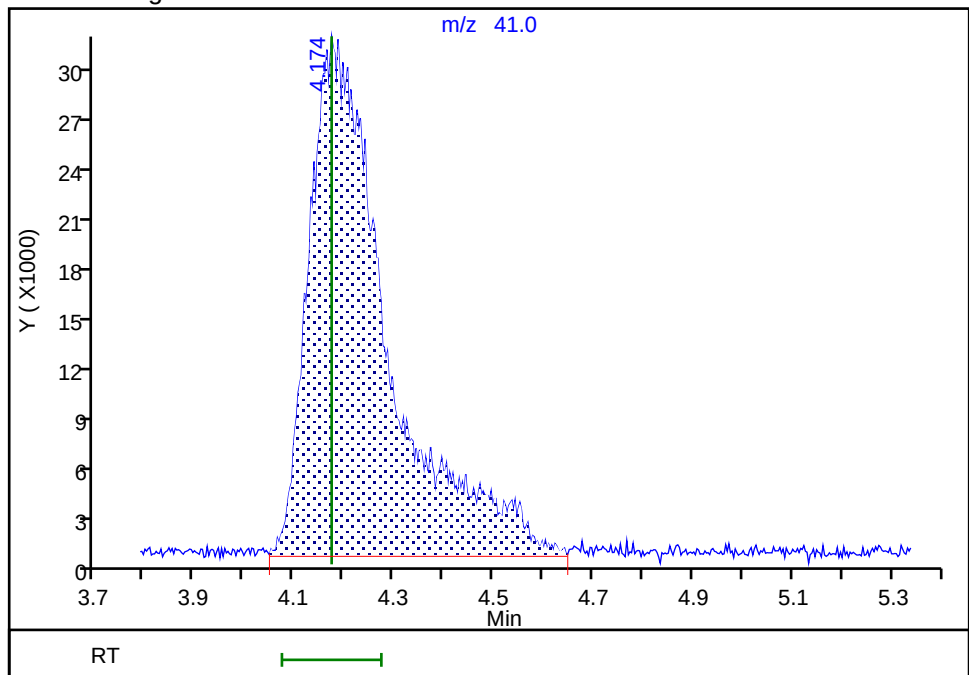
RT: 4.17
Area: 329754
Amount: 224.1135
Amount Units: ug/l

Processing Integration Results



RT: 4.17
Area: 335568
Amount: 228.1015
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 20:26:34 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

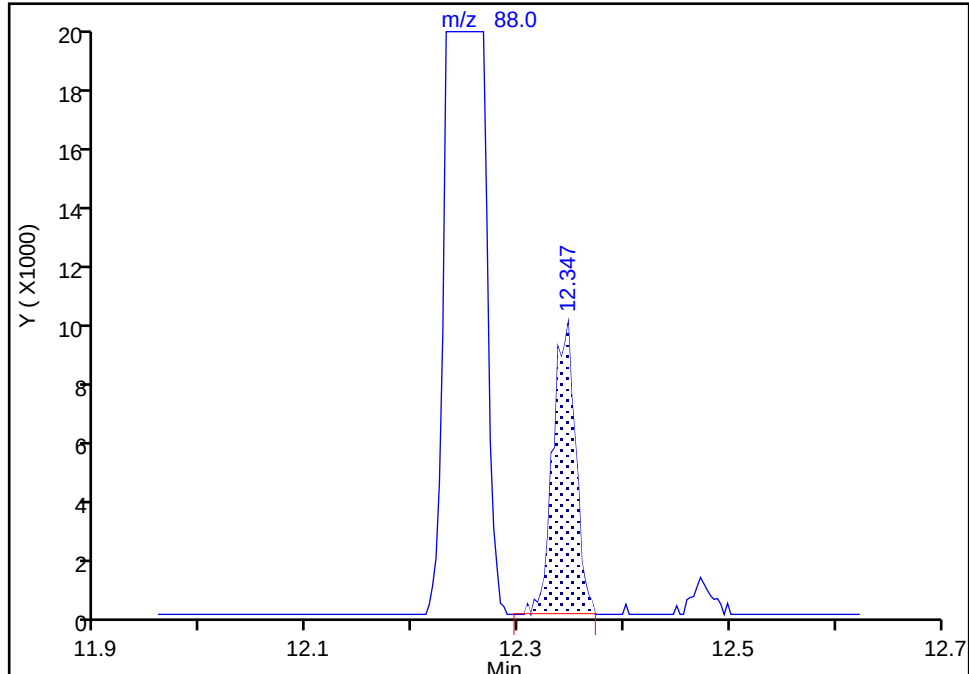
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X05.D
Injection Date: 03-Jun-2024 18:48:30 Instrument ID: 9137
Lims ID: IC sm v50
Client ID:
Operator ID: mec29284 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

112 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

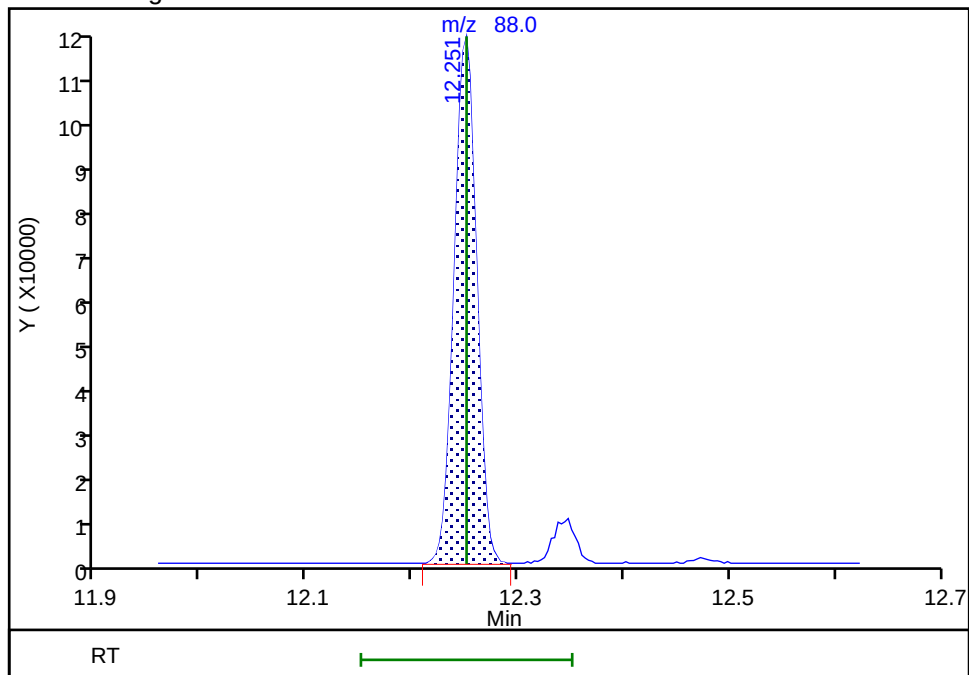
RT: 12.35
Area: 14100
Amount: 8.487156
Amount Units: ug/l

Processing Integration Results



RT: 12.25
Area: 165696
Amount: 49.526616
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 20:26:46 -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\9137\20240603-115635.b\WU03X06.D
 Lims ID: IC sm v100
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 03-Jun-2024 19:10:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105635-007
 Misc. Info.: SM 100
 Operator ID: mec29284 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub42
 Method: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-Jun-2024 13:25:25 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1676

First Level Reviewer: K4WN

Date: 03-Jun-2024 20:27:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Chlorotrifluoroethene	116	1.992	1.995	-0.003	91	488122	100.0	95.5	
5 Chlorodifluoromethane	51	2.046	2.043	0.003	97	1024136	100.0	93.1	
10 2-Chloro-1,1,1-Trifluoroethane	118	2.467	2.467	0.000	35	998187	100.0	95.8	
16 Ethyl ether	59	3.394	3.388	0.006	91	445328	100.0	98.8	
29 Acetonitrile	41	4.174	4.174	0.000	98	686462	500.0	447.1	M
* 32 t-Butyl alcohol-d10 (IS)	65	4.450	4.485	-0.035	30	341472	250.0	250.0	
39 Vinyl acetate	43	5.515	5.515	0.000	97	1250998	100.0	100.0	
46 Ethyl acetate	43	6.378	6.385	-0.007	99	777598	100.0	100.1	
63 Isopropyl acetate	43	7.617	7.620	-0.003	98	1449487	100.0	100.5	
* 65 Fluorobenzene (IS)	96	7.938	7.935	0.003	99	998164	50.0	50.0	
76 n-Propyl acetate	61	8.910	8.910	0.000	98	309564	100.0	101.2	
93 3,4-Dichloro-1-butene	75	10.646	10.646	0.000	92	606617	100.1	101.3	
97 n-Butyl acetate	43	10.771	10.771	0.000	98	1160754	100.0	100.6	
* 101 Chlorobenzene-d5 (IS)	117	11.352	11.352	0.000	86	729601	50.0	50.0	
112 cis-1,4-Dichloro-2-butene	88	12.251	12.251	0.000	26	351947	100.0	106.8	a
126 Pentachloroethane	167	12.937	12.941	-0.004	91	435901	100.0	107.8	
* 133 1,4-Dichlorobenzene-d4	152	13.220	13.220	0.000	95	449176	50.0	50.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_Penta_00050	Amount Added: 5.00	Units: uL
MSV_CCV_EE_00007	Amount Added: 5.00	Units: uL
MSV_CCV_V5ACE_00036	Amount Added: 5.00	Units: uL
MSV_Cent_ISO_00005	Amount Added: 5.00	Units: uL
MSV_CCV_LKB_00009	Amount Added: 5.00	Units: uL
MSV_V_SMFreon_00039	Amount Added: 2.50	Units: uL

Report Date: 04-Jun-2024 13:25:25

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X06.D

Injection Date: 03-Jun-2024 19:10:30

Instrument ID: 9137

Operator ID: mec29284

Lims ID: IC sm v100

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

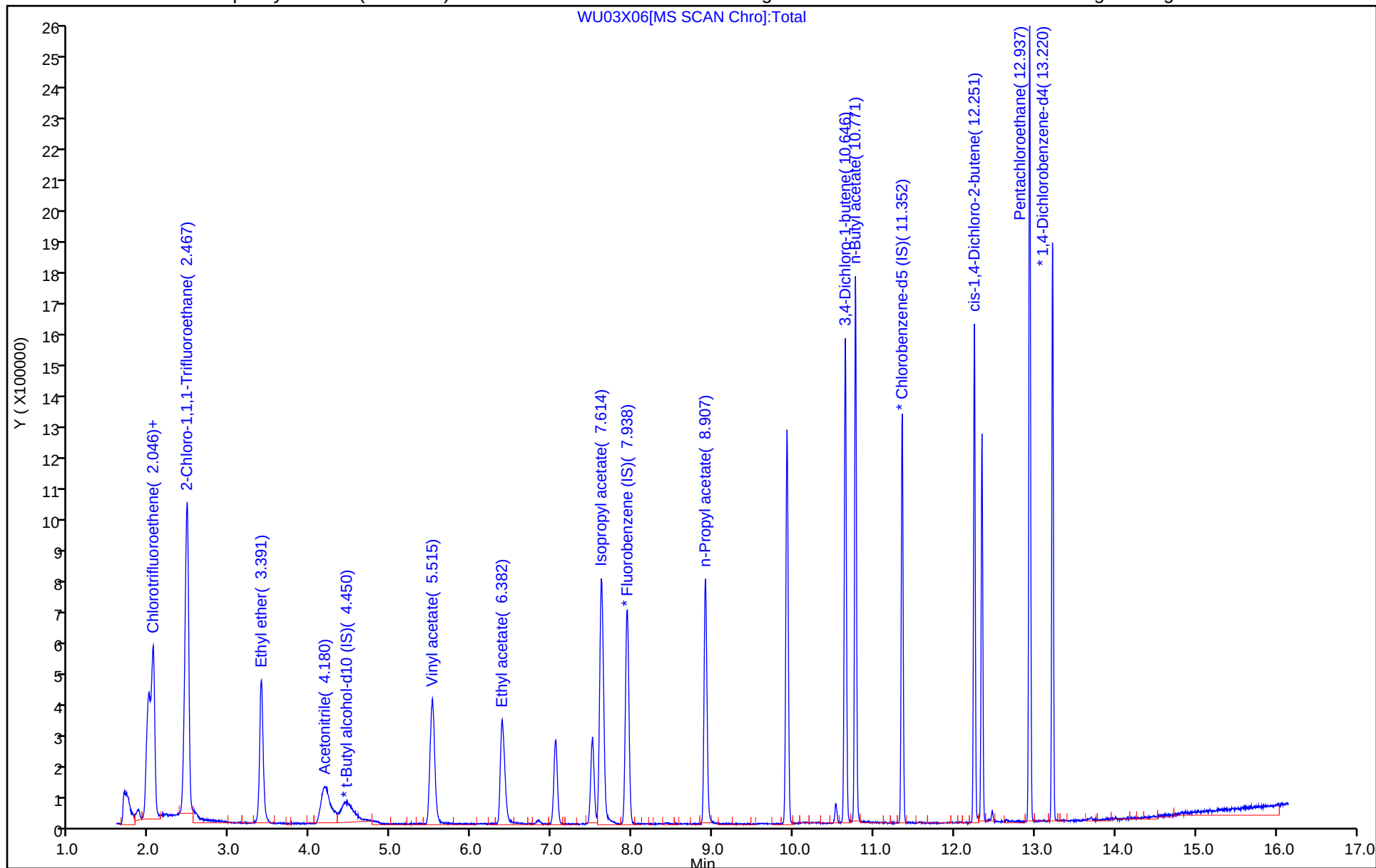
ALS Bottle#: 6

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

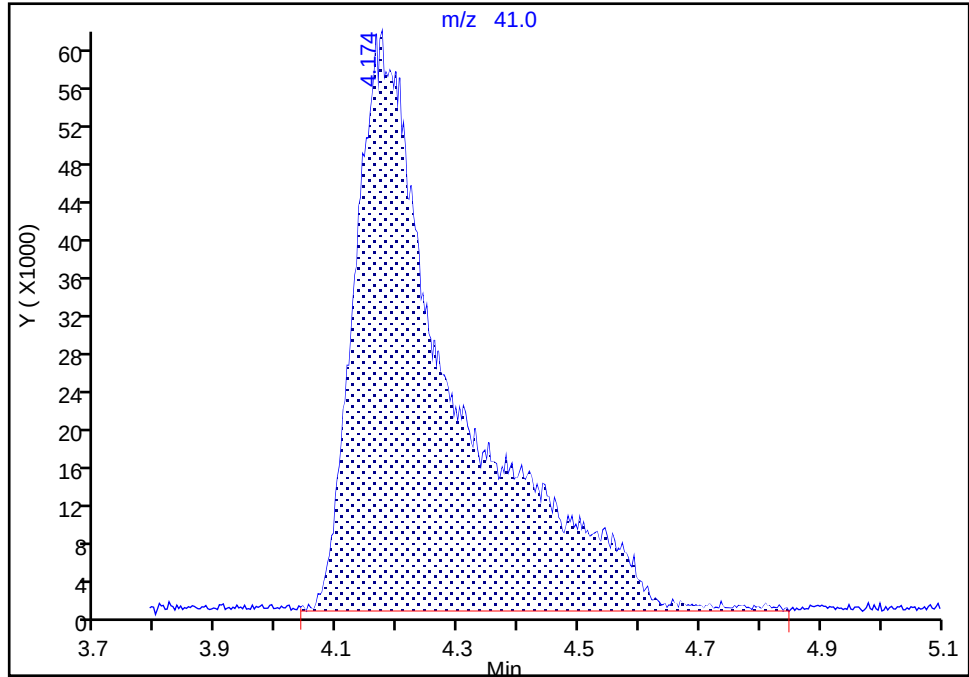
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X06.D
Injection Date: 03-Jun-2024 19:10:30 Instrument ID: 9137
Lims ID: IC sm v100
Client ID:
Operator ID: mec29284 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

29 Acetonitrile, CAS: 75-05-8

Signal: 1

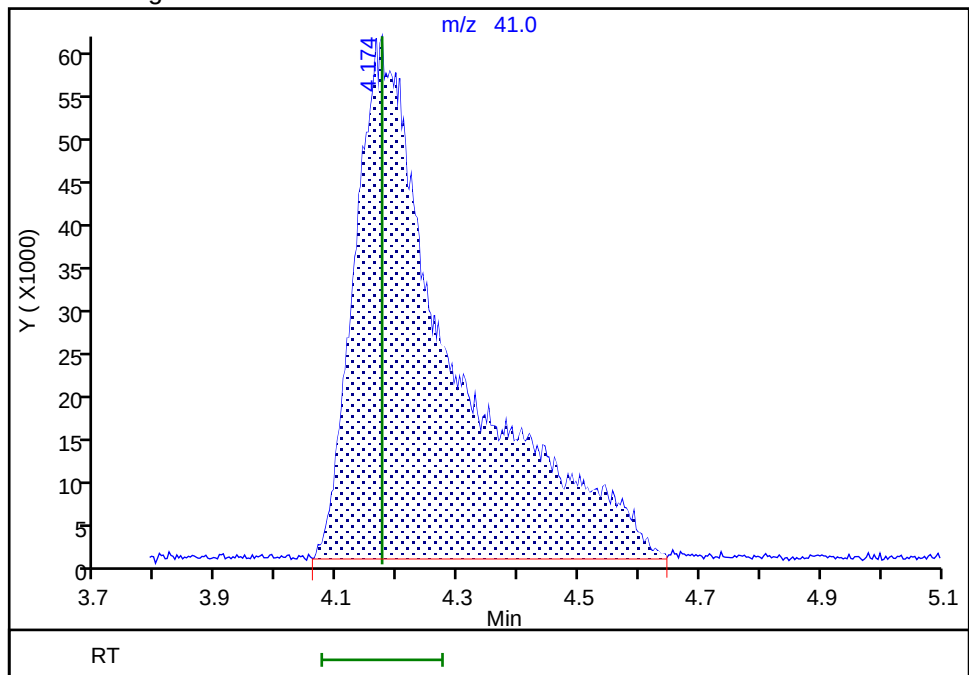
RT: 4.17
Area: 698163
Amount: 453.4318
Amount Units: ug/l

Processing Integration Results



RT: 4.17
Area: 686462
Amount: 447.0785
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 20:27:12 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

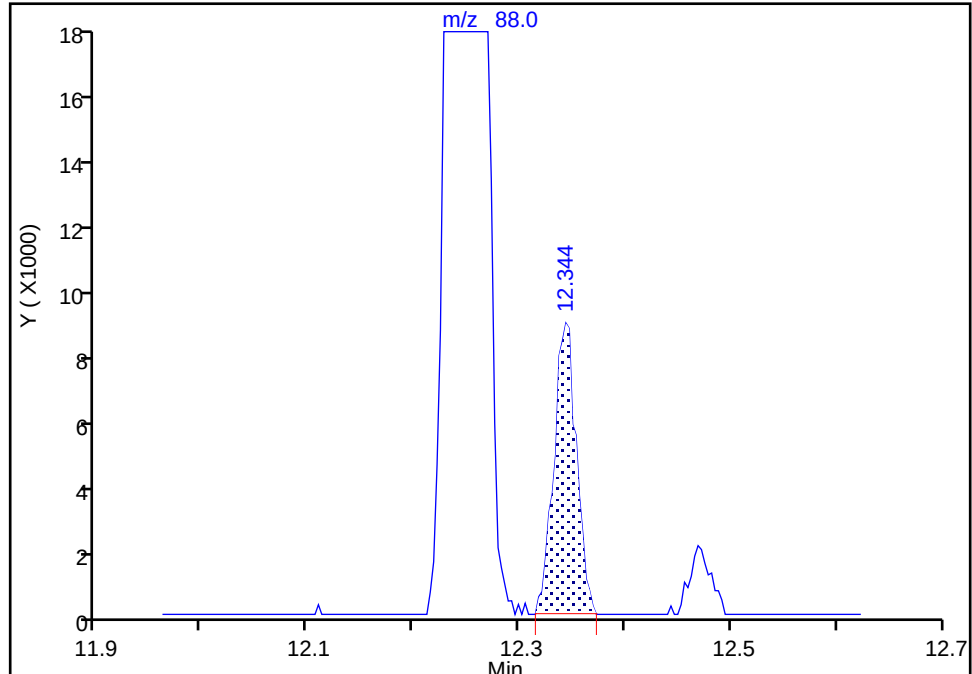
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X06.D
Injection Date: 03-Jun-2024 19:10:30 Instrument ID: 9137
Lims ID: IC sm v100
Client ID:
Operator ID: mec29284 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

112 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

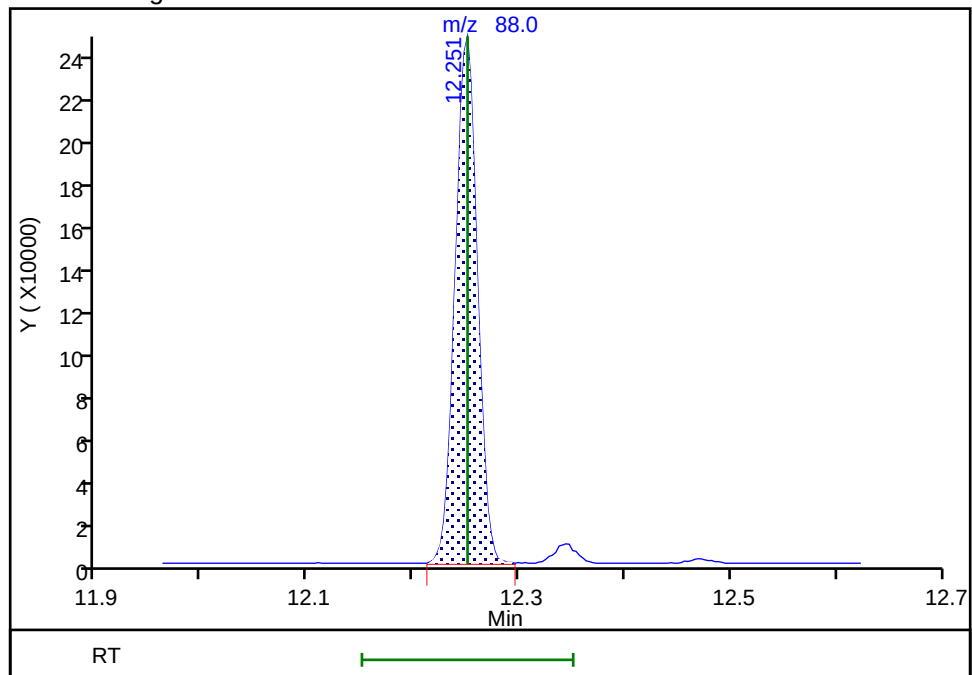
RT: 12.34
Area: 13129
Amount: 6.150155
Amount Units: ug/l

Processing Integration Results



RT: 12.25
Area: 351947
Amount: 106.7610
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 20:27:19 -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\9137\20240603-115635.b\WU03X07.D
 Lims ID: IC sm v300
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 03-Jun-2024 19:32:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0115635-008
 Misc. Info.: SM 300
 Operator ID: mec29284 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub42
 Method: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-Jun-2024 13:25:26 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1676

First Level Reviewer: K4WN

Date: 03-Jun-2024 20:28:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Chlorotrifluoroethene	116	1.992	1.995	-0.003	94	1489240	300.0	286.5	
5 Chlorodifluoromethane	51	2.050	2.043	0.007	97	2986307	300.0	278.7	
10 2-Chloro-1,1,1-Trifluoroethane	118	2.463	2.467	-0.004	60	2961176	300.0	279.5	
16 Ethyl ether	59	3.388	3.388	0.000	90	1376536	300.0	300.4	
29 Acetonitrile	41	4.183	4.174	0.009	99	2051894	1500.0	1372.0	M
* 32 t-Butyl alcohol-d10 (IS)	65	4.437	4.485	-0.048	25	332598	250.0	250.0	
39 Vinyl acetate	43	5.522	5.515	0.007	97	3972458	300.0	312.4	
46 Ethyl acetate	43	6.385	6.385	0.000	99	2426666	300.0	307.1	
63 Isopropyl acetate	43	7.620	7.620	0.000	98	4539117	300.0	309.4	
* 65 Fluorobenzene (IS)	96	7.938	7.935	0.003	99	1015101	50.0	50.0	
76 n-Propyl acetate	61	8.910	8.910	0.000	98	979533	300.0	315.0	
93 3,4-Dichloro-1-butene	75	10.646	10.646	0.000	92	1998780	300.2	318.2	
97 n-Butyl acetate	43	10.771	10.771	0.000	98	3623595	300.0	299.3	
* 101 Chlorobenzene-d5 (IS)	117	11.352	11.352	0.000	86	765294	50.0	50.0	
112 cis-1,4-Dichloro-2-butene	88	12.251	12.251	0.000	26	1143810	300.1	330.8	a
126 Pentachloroethane	167	12.937	12.941	-0.004	92	1483076	300.0	354.8	
* 133 1,4-Dichlorobenzene-d4	152	13.223	13.220	0.003	95	464346	50.0	50.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_Penta_00050	Amount Added: 15.00	Units: uL
MSV_CCV_EE_00007	Amount Added: 15.00	Units: uL
MSV_CCV_V5ACE_00036	Amount Added: 15.00	Units: uL
MSV_Cent_ISO_00005	Amount Added: 5.00	Units: uL
MSV_V_SMFreon_00039	Amount Added: 7.50	Units: uL
MSV_CCV_LKB_00009	Amount Added: 15.00	Units: uL

Report Date: 04-Jun-2024 13:25:27

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X07.D

Injection Date: 03-Jun-2024 19:32:30

Instrument ID: 9137

Operator ID: mec29284

Lims ID: IC sm v300

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

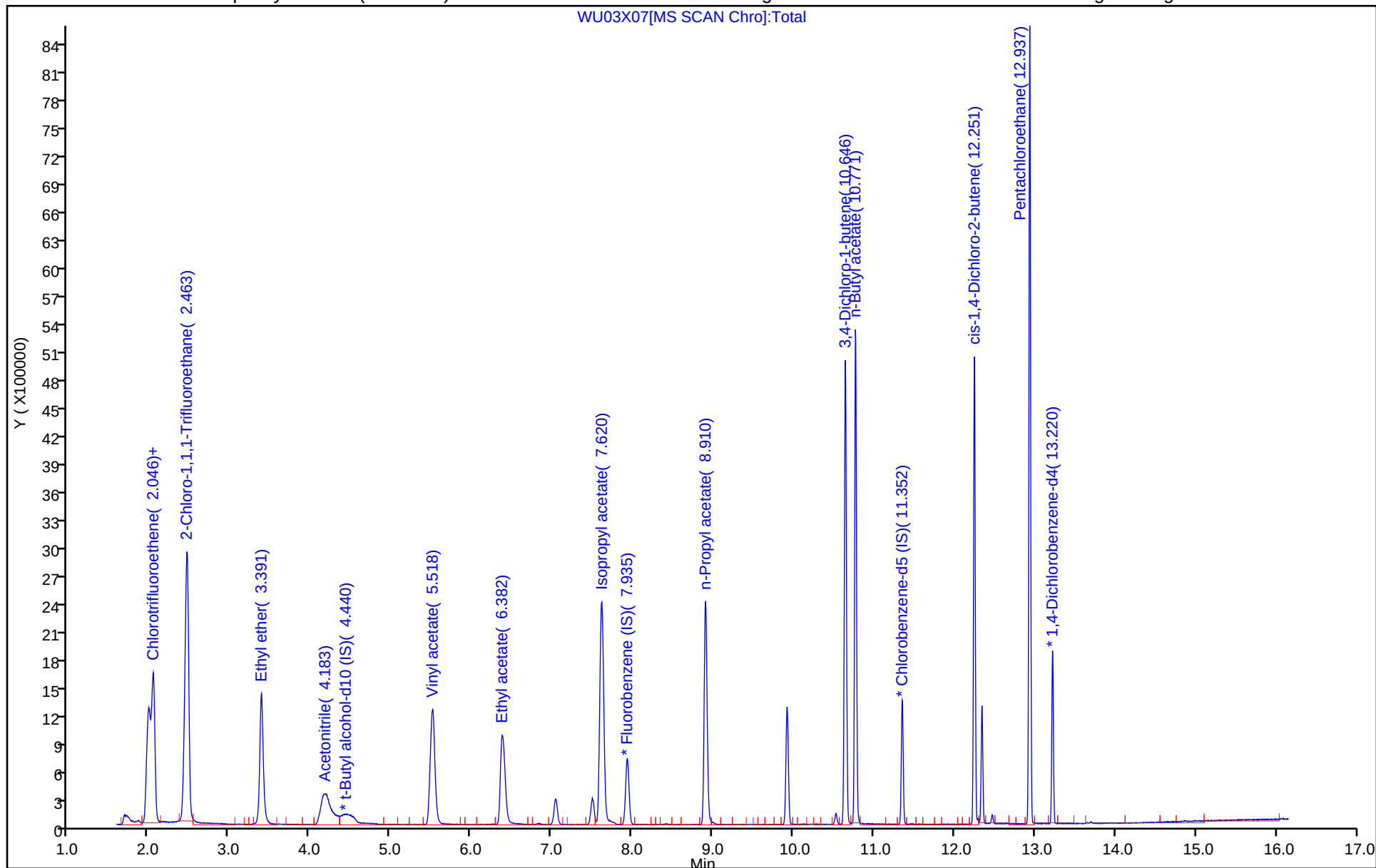
ALS Bottle#: 7

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

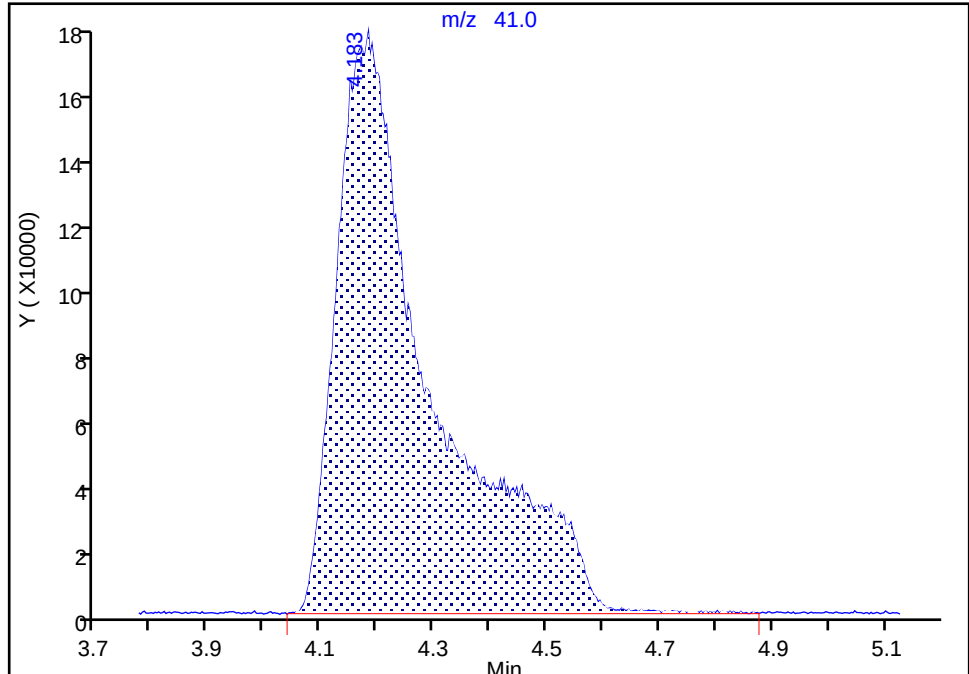
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X07.D
Injection Date: 03-Jun-2024 19:32:30 Instrument ID: 9137
Lims ID: IC sm v300
Client ID:
Operator ID: mec29284 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

29 Acetonitrile, CAS: 75-05-8

Signal: 1

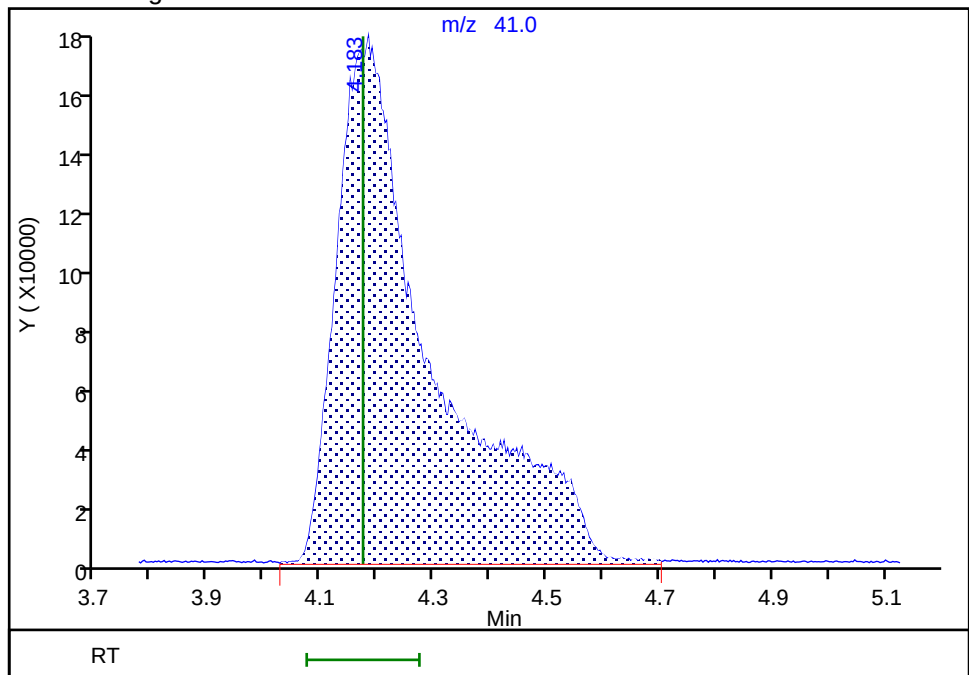
RT: 4.18
Area: 2055322
Amount: 1373.9534
Amount Units: ug/l

Processing Integration Results



RT: 4.18
Area: 2051894
Amount: 1372.0111
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 20:27:56 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

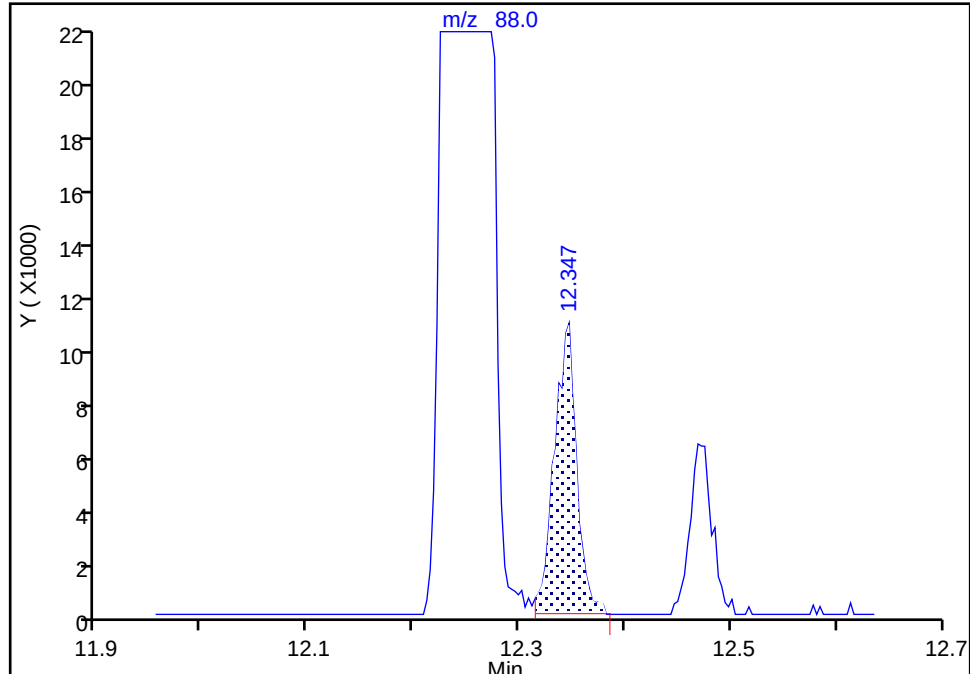
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X07.D
Injection Date: 03-Jun-2024 19:32:30 Instrument ID: 9137
Lims ID: IC sm v300
Client ID:
Operator ID: mec29284 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

112 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

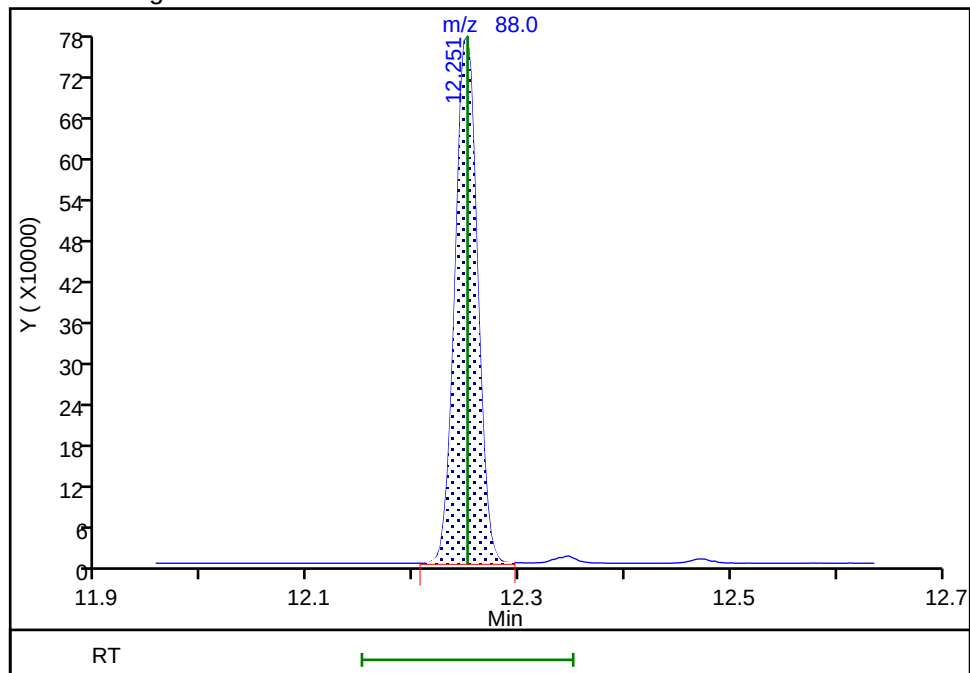
RT: 12.35
Area: 15589
Amount: 5.505966
Amount Units: ug/l

Processing Integration Results



RT: 12.25
Area: 1143810
Amount: 330.7853
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 20:28:05 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Calibration

/ Chlorotrifluoroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

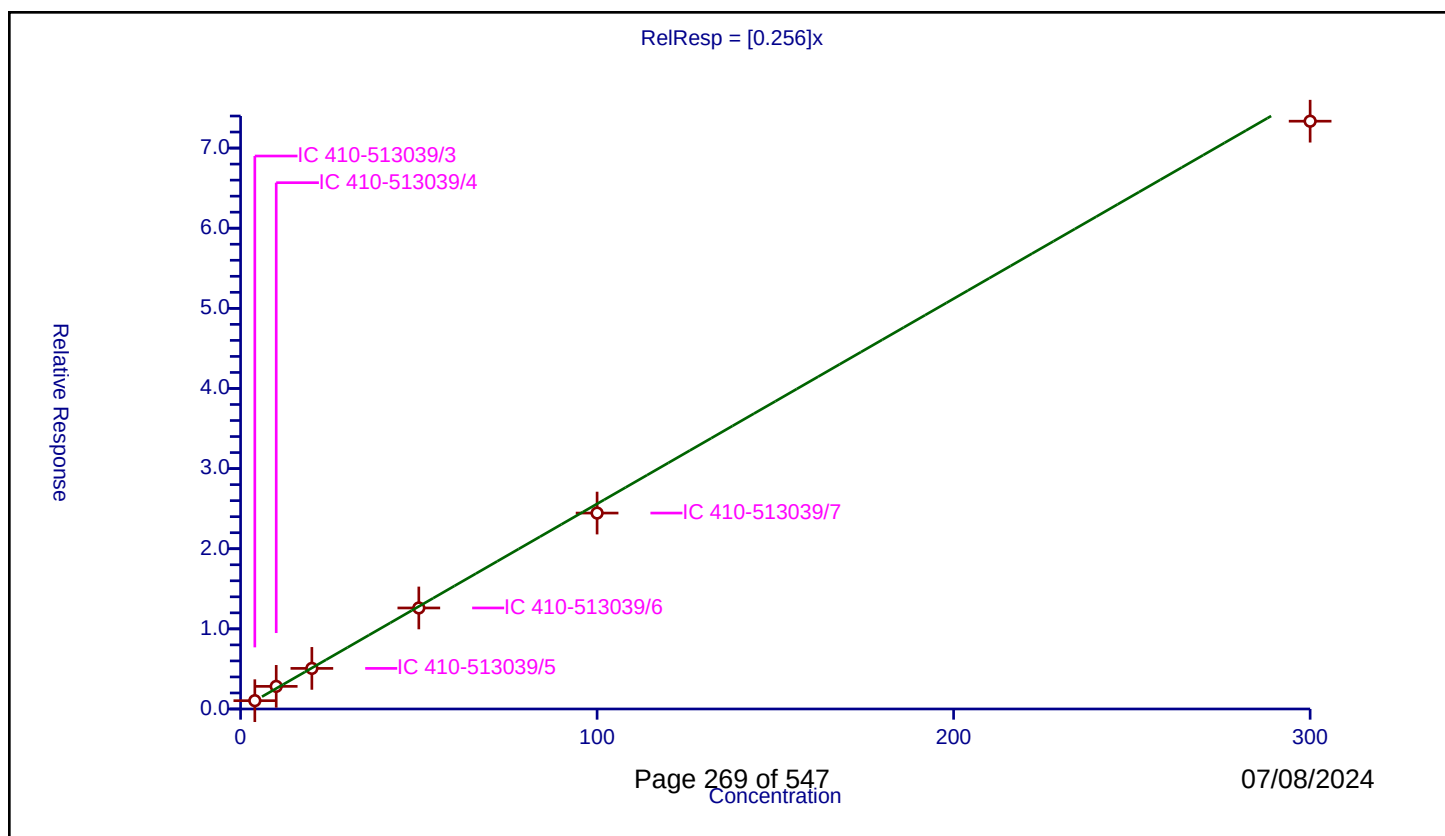
Curve Coefficients

Intercept: 0
Slope: 0.256

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/3	4.0	1.037175	50.0	1044279.0	0.259294	Y
2	IC 410-513039/4	10.0	2.822055	50.0	1008857.0	0.282206	Y
3	IC 410-513039/5	20.0	5.065522	50.0	1005918.0	0.253276	Y
4	IC 410-513039/6	50.0	12.607817	50.0	1009925.0	0.252156	Y
5	IC 410-513039/7	100.0	24.450992	50.0	998164.0	0.24451	Y
6	IC 410-513039/8	300.0	73.354277	50.0	1015101.0	0.244514	Y



Calibration

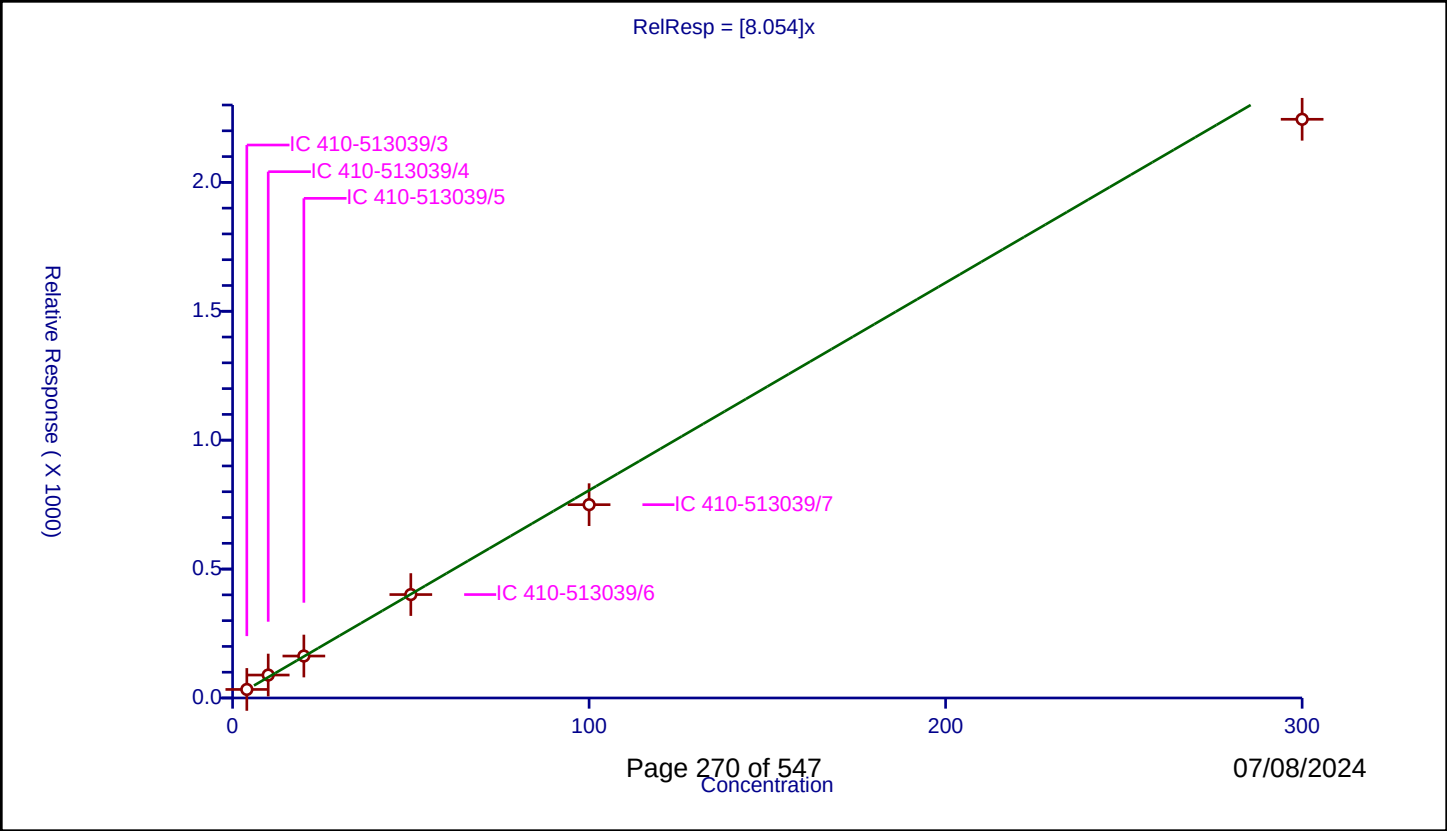
/ Chlorodifluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	8.054

Error Coefficients	
Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/3	4.0	33.138652	250.0	353741.0	8.284663	Y
2	IC 410-513039/4	10.0	88.953746	250.0	345289.0	8.895375	Y
3	IC 410-513039/5	20.0	162.800095	250.0	325439.0	8.140005	Y
4	IC 410-513039/6	50.0	401.210682	250.0	327171.0	8.024214	Y
5	IC 410-513039/7	100.0	749.795005	250.0	341472.0	7.49795	Y
6	IC 410-513039/8	300.0	2244.682019	250.0	332598.0	7.482273	Y



Calibration

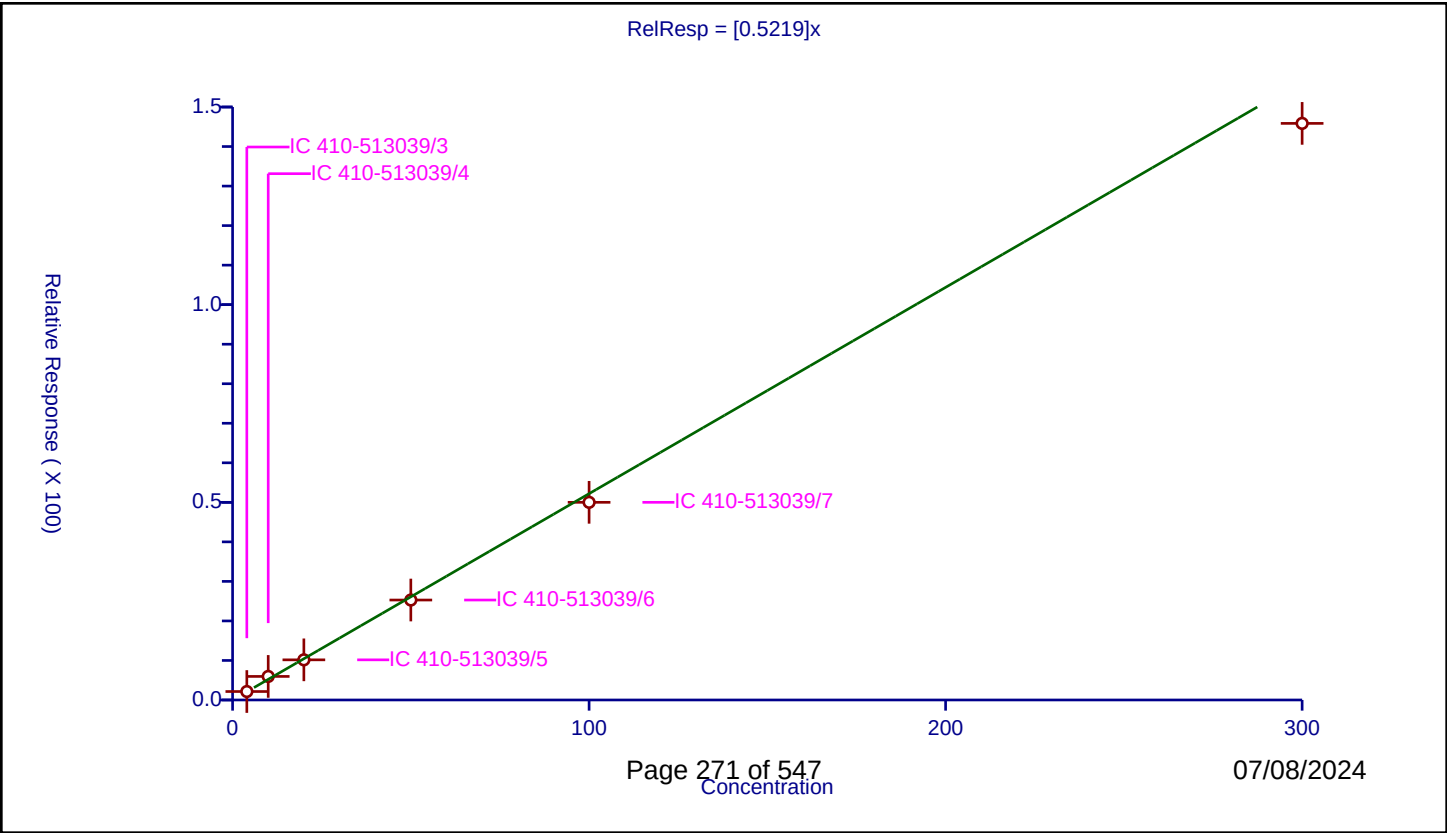
/ 2-Chloro-1,1,1-Trifluoroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5219
Error Coefficients	

Relative Standard Deviation: 7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/3	4.0	2.143105	50.0	1044279.0	0.535776	Y
2	IC 410-513039/4	10.0	5.957187	50.0	1008857.0	0.595719	Y
3	IC 410-513039/5	20.0	10.155947	50.0	1005918.0	0.507797	Y
4	IC 410-513039/6	50.0	25.288413	50.0	1009925.0	0.505768	Y
5	IC 410-513039/7	100.0	50.001152	50.0	998164.0	0.500012	Y
6	IC 410-513039/8	300.0	145.856225	50.0	1015101.0	0.486187	Y



Calibration

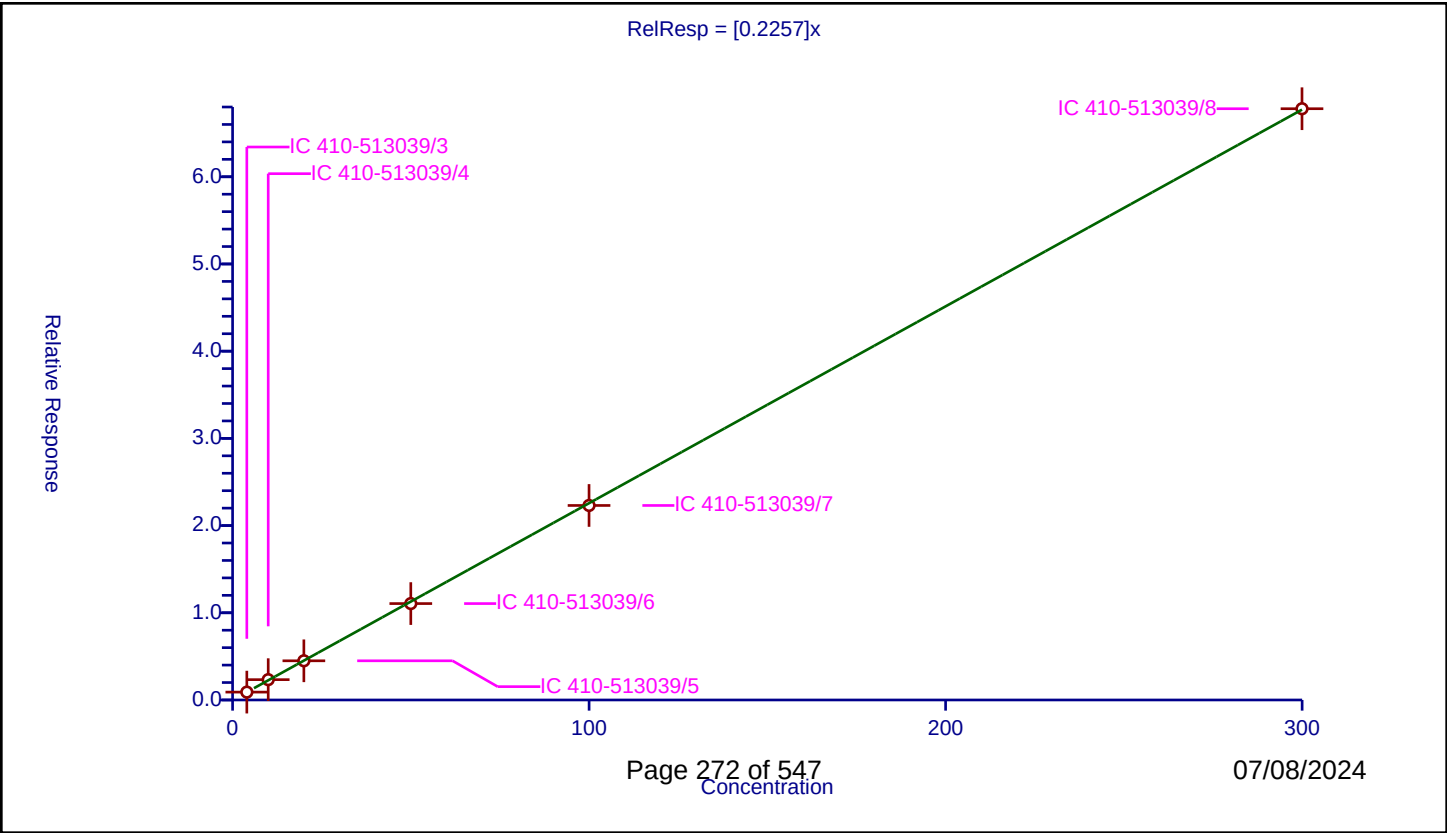
/ Ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2257
Error Coefficients	

Relative Standard Deviation: 1.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/3	3.999587	0.903973	50.0	1044279.0	0.226017	Y
2	IC 410-513039/4	9.998968	2.331302	50.0	1008857.0	0.233154	Y
3	IC 410-513039/5	19.997936	4.494303	50.0	1005918.0	0.224738	Y
4	IC 410-513039/6	49.99484	11.05488	50.0	1009925.0	0.22112	Y
5	IC 410-513039/7	99.98968	22.307356	50.0	998164.0	0.223097	Y
6	IC 410-513039/8	299.96904	67.802908	50.0	1015101.0	0.226033	Y



Calibration

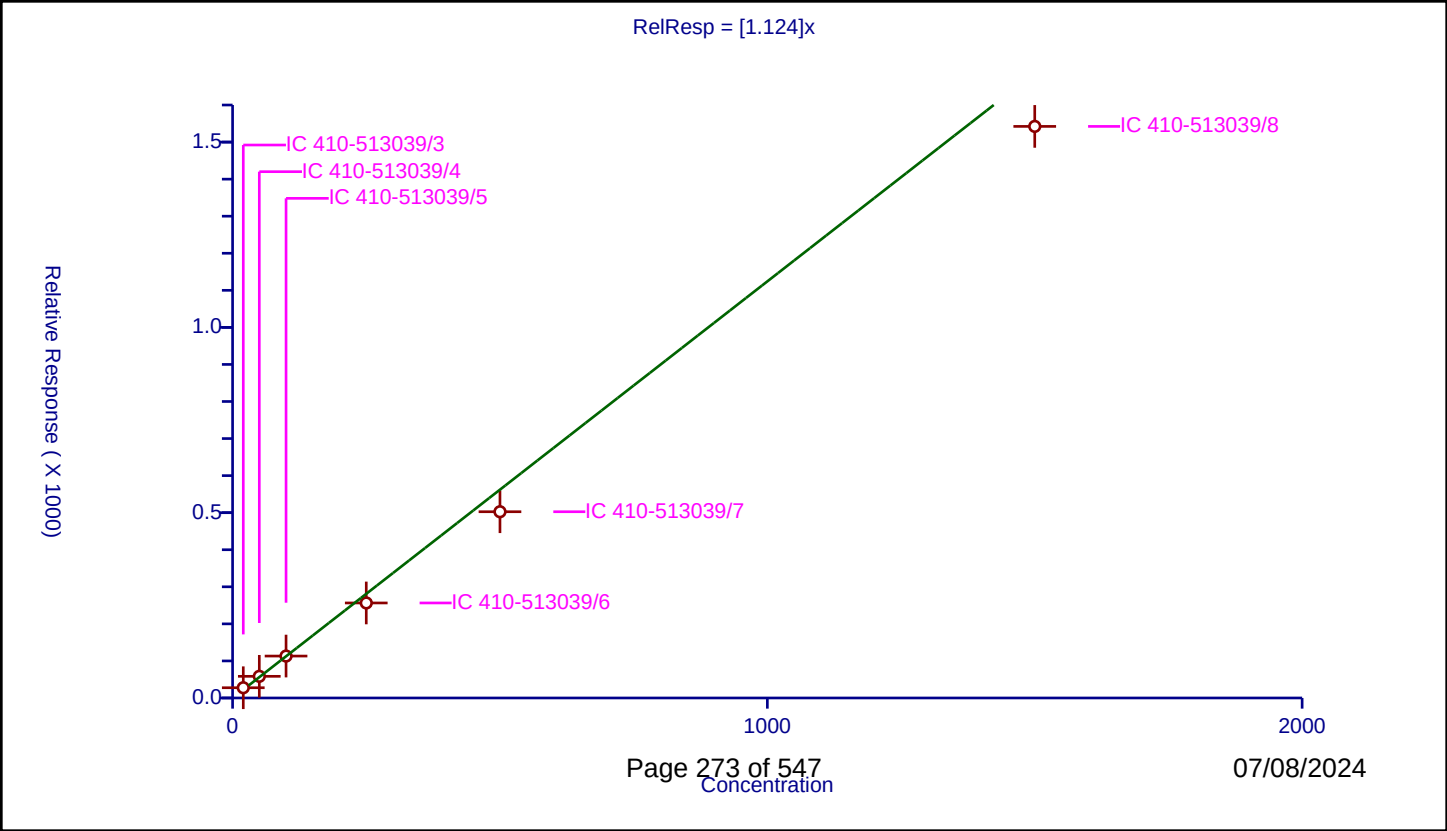
/ Acetonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.124

Error Coefficients	
Relative Standard Deviation:	12.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/3	20.0	27.692577	250.0	353741.0	1.384629	Y
2	IC 410-513039/4	50.0	58.477102	250.0	345289.0	1.169542	Y
3	IC 410-513039/5	100.0	113.159455	250.0	325439.0	1.131595	Y
4	IC 410-513039/6	250.0	256.416369	250.0	327171.0	1.025665	Y
5	IC 410-513039/7	500.0	502.575614	250.0	341472.0	1.005151	Y
6	IC 410-513039/8	1500.0	1542.322864	250.0	332598.0	1.028215	Y



Calibration

/ Vinyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

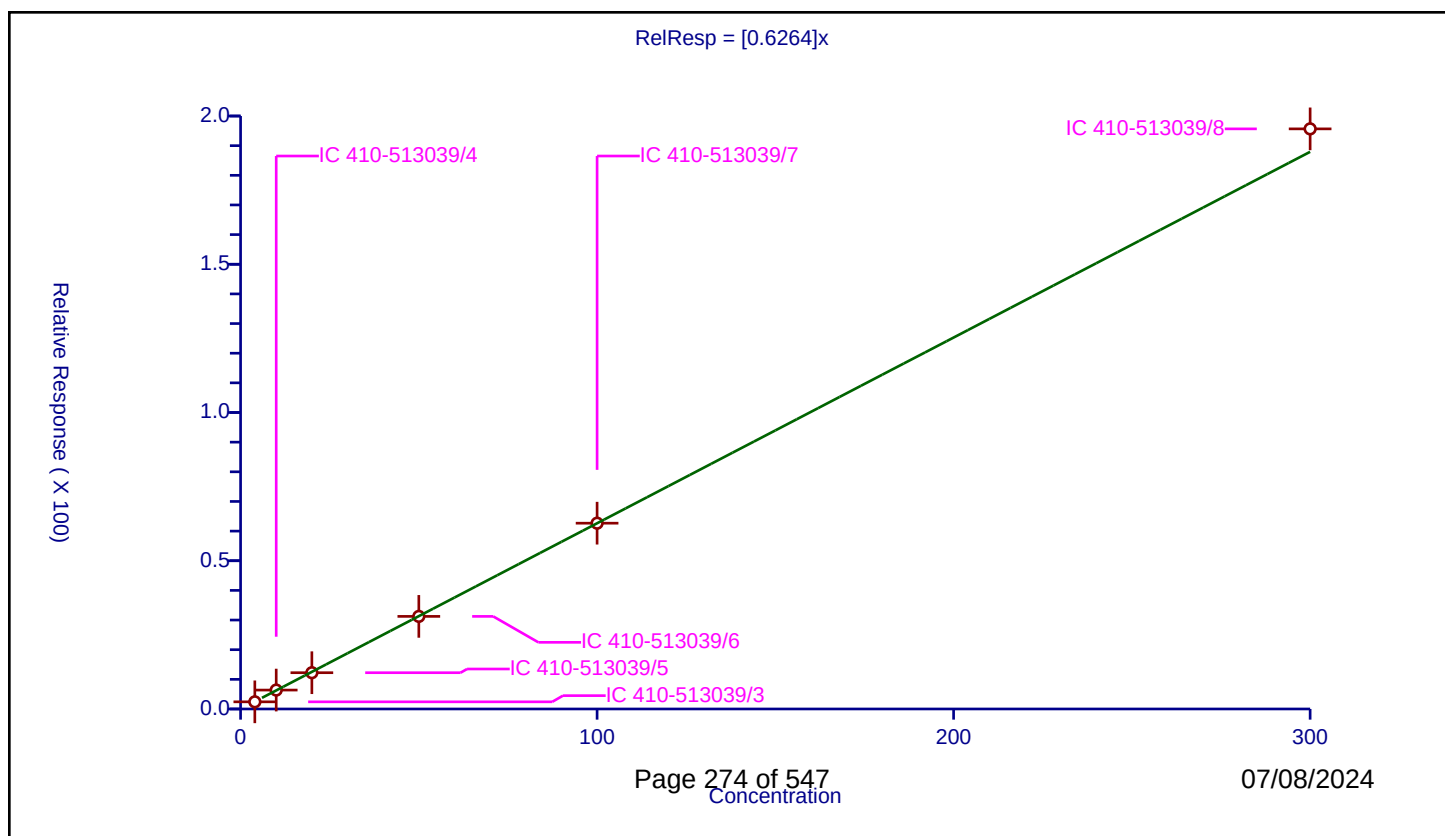
Curve Coefficients

Intercept: 0
Slope: 0.6264

Error Coefficients

Relative Standard Deviation: 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/3	4.0	2.418176	50.0	1044279.0	0.604544	Y
2	IC 410-513039/4	10.0	6.384849	50.0	1008857.0	0.638485	Y
3	IC 410-513039/5	20.0	12.238075	50.0	1005918.0	0.611904	Y
4	IC 410-513039/6	50.0	31.231824	50.0	1009925.0	0.624636	Y
5	IC 410-513039/7	100.0	62.664953	50.0	998164.0	0.62665	Y
6	IC 410-513039/8	300.0	195.668116	50.0	1015101.0	0.652227	Y



Calibration

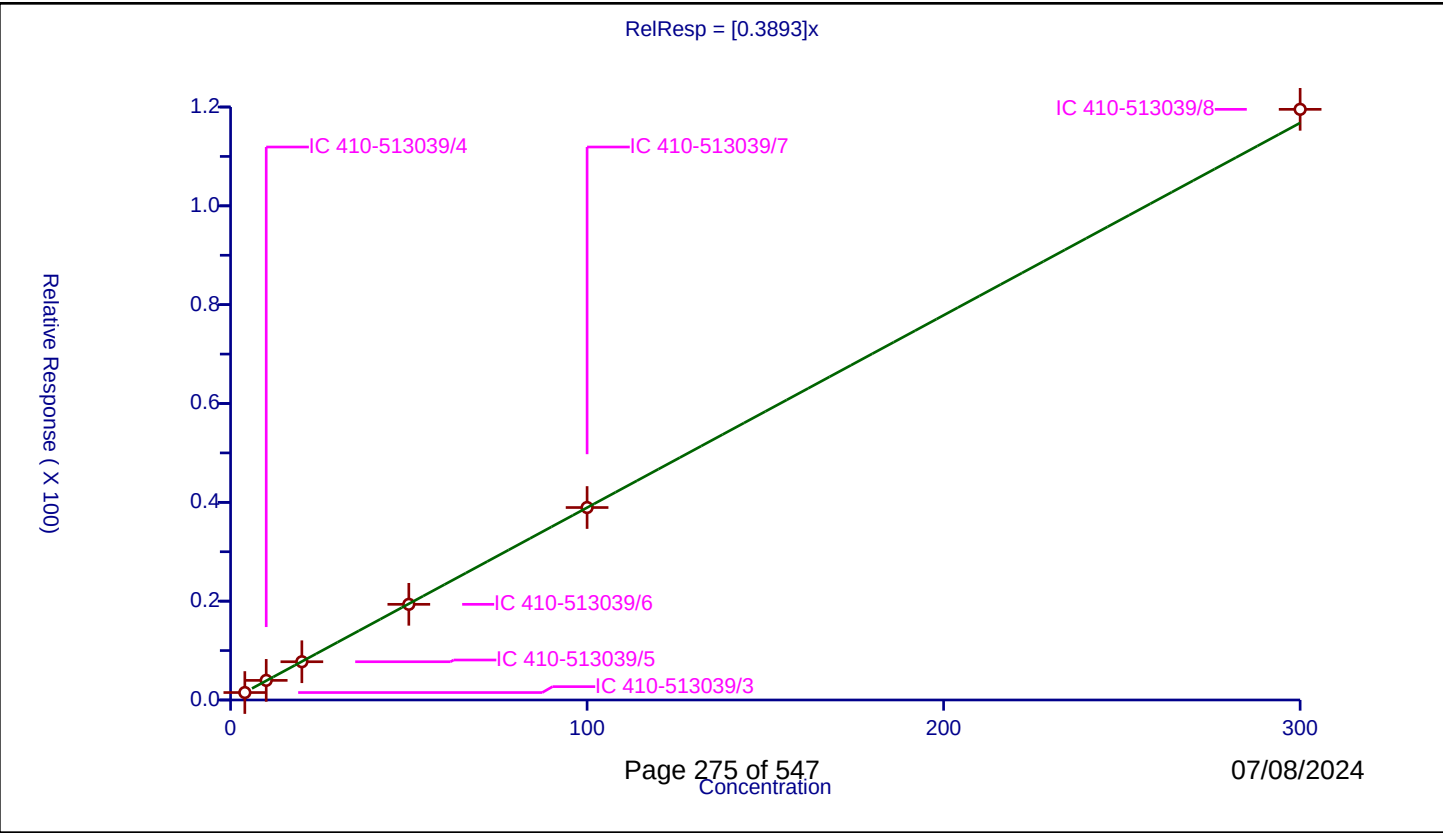
/ Ethyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3893
Error Coefficients	

Relative Standard Deviation: 2.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/3	4.0	1.506063	50.0	1044279.0	0.376516	Y
2	IC 410-513039/4	10.0	3.970236	50.0	1008857.0	0.397024	Y
3	IC 410-513039/5	20.0	7.740144	50.0	1005918.0	0.387007	Y
4	IC 410-513039/6	50.0	19.35817	50.0	1009925.0	0.387163	Y
5	IC 410-513039/7	100.0	38.951415	50.0	998164.0	0.389514	Y
6	IC 410-513039/8	300.0	119.528303	50.0	1015101.0	0.398428	Y



Calibration

/ Isopropyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

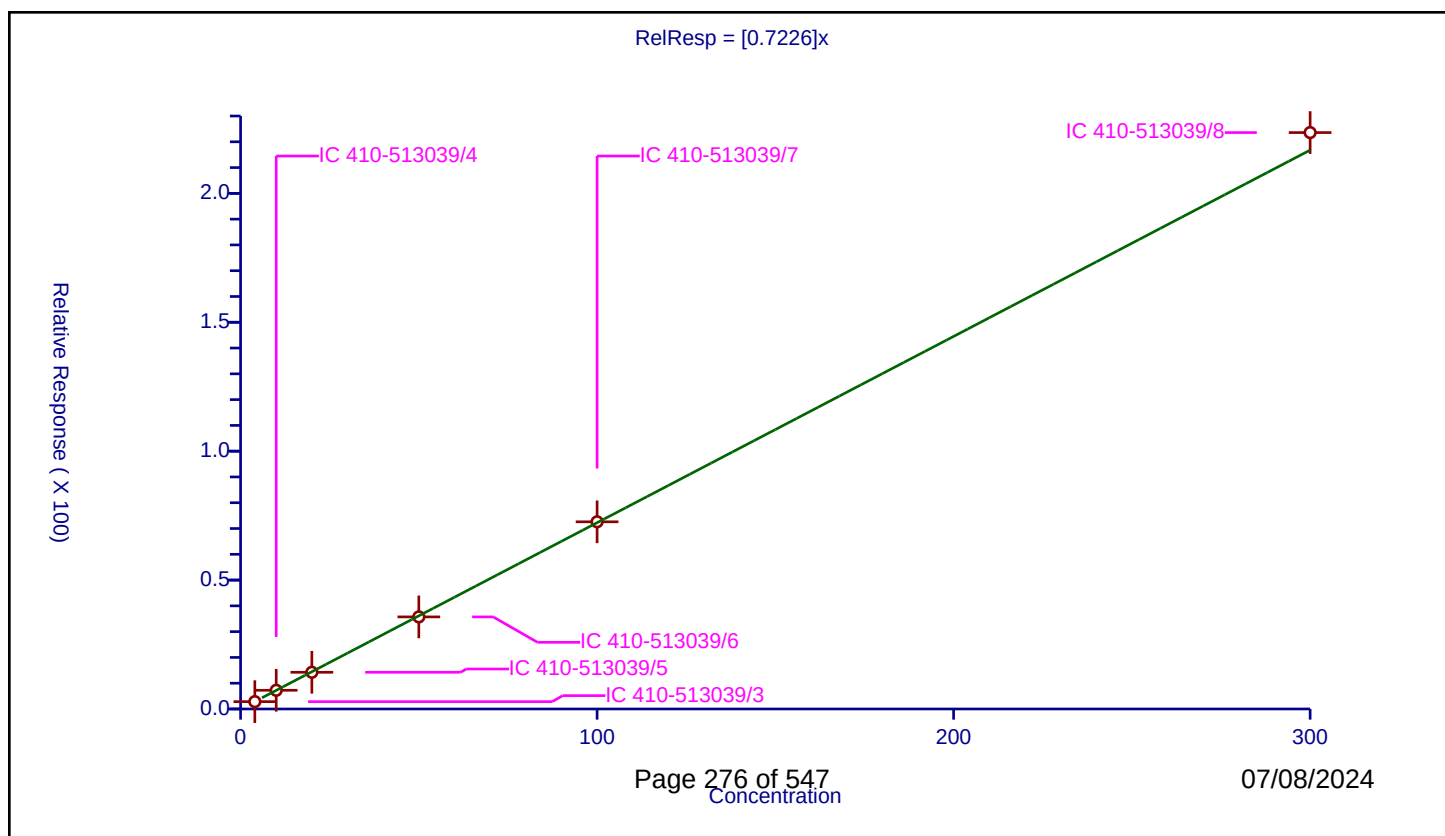
Curve Coefficients

Intercept: 0
Slope: 0.7226

Error Coefficients

Relative Standard Deviation: 1.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/3	4.0	2.849143	50.0	1044279.0	0.712286	Y
2	IC 410-513039/4	10.0	7.25187	50.0	1008857.0	0.725187	Y
3	IC 410-513039/5	20.0	14.240624	50.0	1005918.0	0.712031	Y
4	IC 410-513039/6	50.0	35.725128	50.0	1009925.0	0.714503	Y
5	IC 410-513039/7	100.0	72.607658	50.0	998164.0	0.726077	Y
6	IC 410-513039/8	300.0	223.579575	50.0	1015101.0	0.745265	Y



Calibration

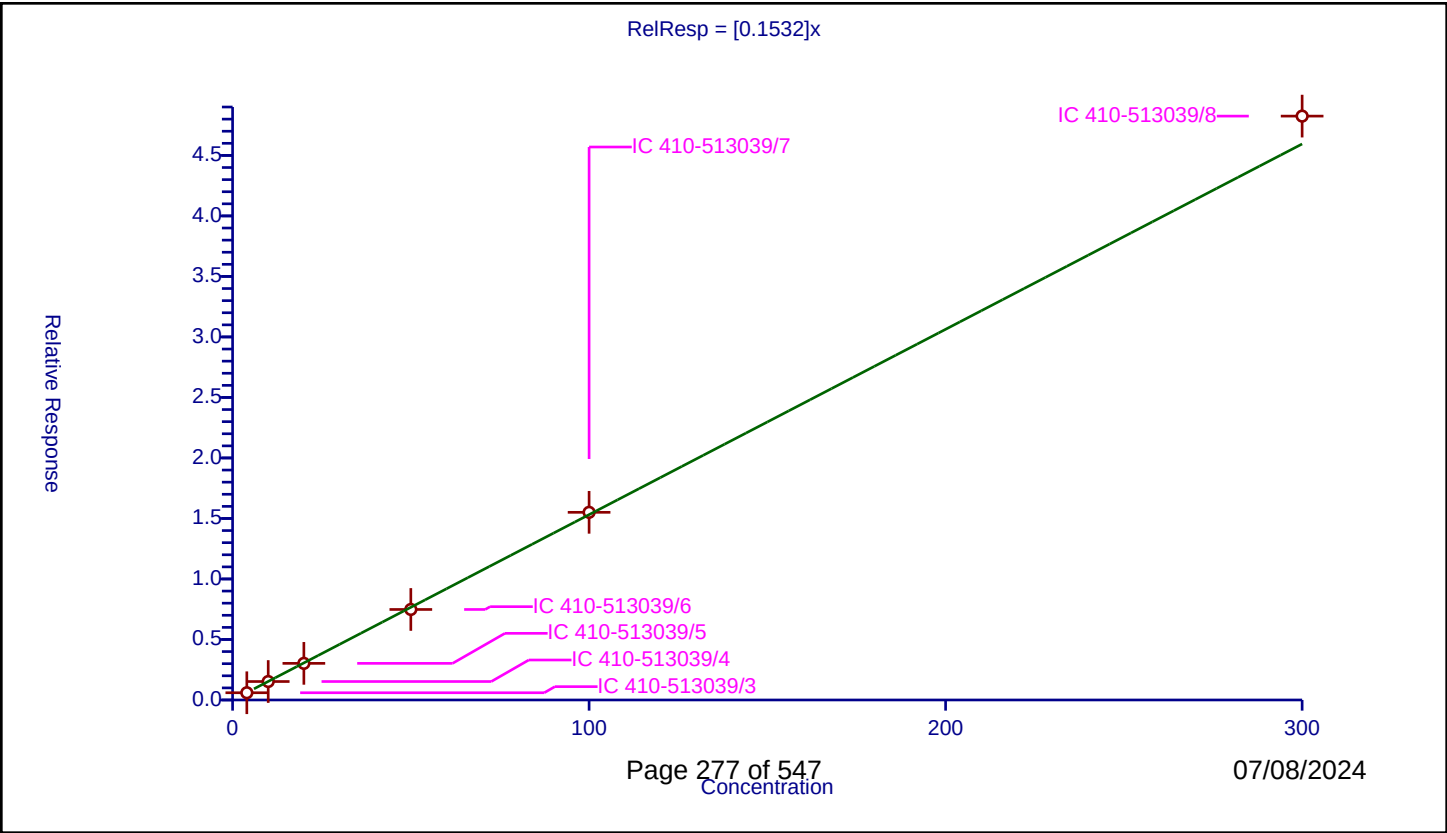
/ n-Propyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1532
Error Coefficients	

Relative Standard Deviation: 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/3	4.0	0.597877	50.0	1044279.0	0.149469	Y
2	IC 410-513039/4	10.0	1.526629	50.0	1008857.0	0.152663	Y
3	IC 410-513039/5	20.0	3.026092	50.0	1005918.0	0.151305	Y
4	IC 410-513039/6	50.0	7.479466	50.0	1009925.0	0.149589	Y
5	IC 410-513039/7	100.0	15.50667	50.0	998164.0	0.155067	Y
6	IC 410-513039/8	300.0	48.248056	50.0	1015101.0	0.160827	Y

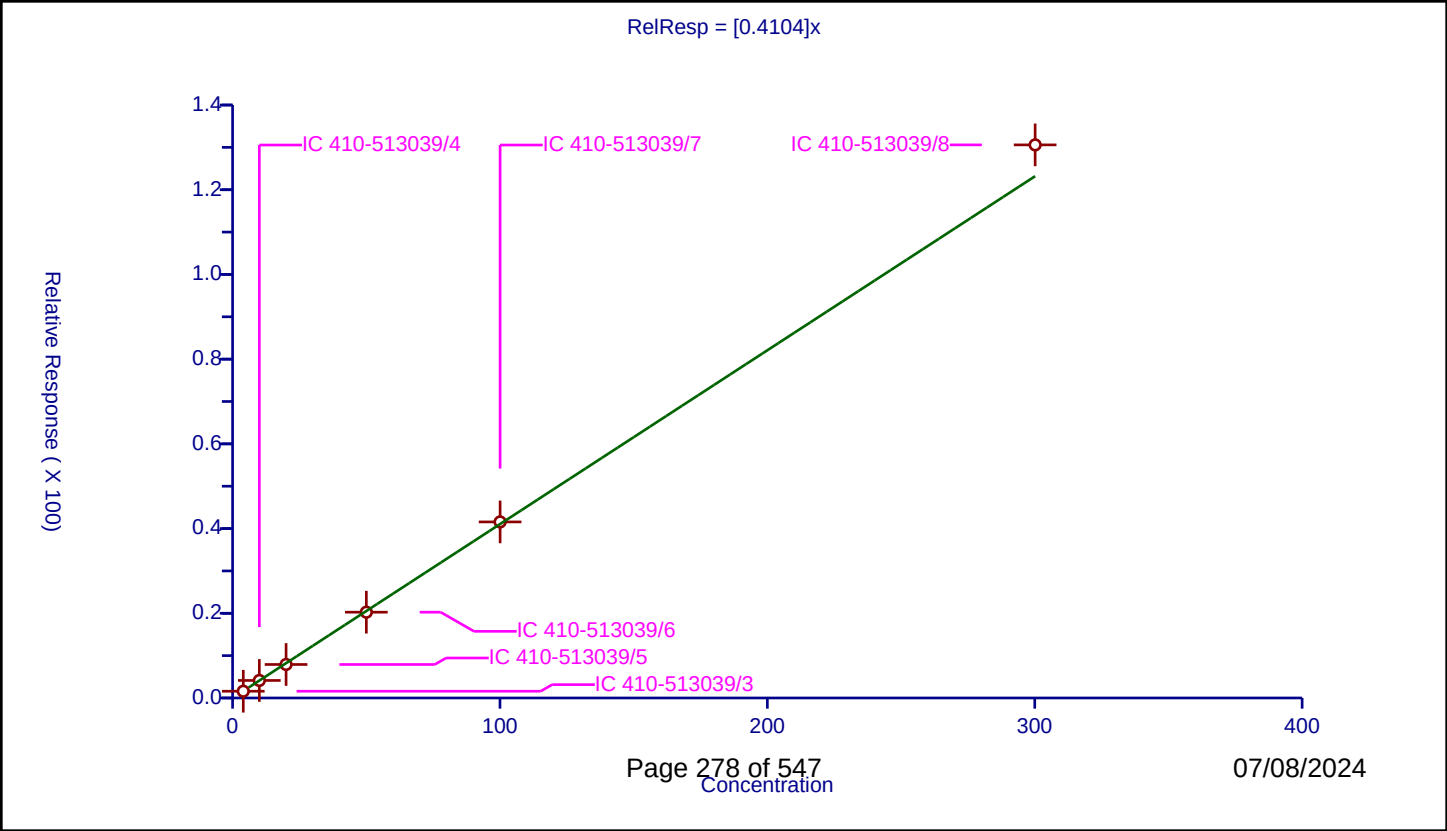


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4104
Error Coefficients	

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/3	4.002102	1.593023	50.0	753944.0	0.398047	Y
2	IC 410-513039/4	10.005254	4.138948	50.0	730705.0	0.413677	Y
3	IC 410-513039/5	20.010508	7.913748	50.0	730880.0	0.39548	Y
4	IC 410-513039/6	50.02627	20.256075	50.0	740447.0	0.404909	Y
5	IC 410-513039/7	100.05254	41.571832	50.0	729601.0	0.4155	Y
6	IC 410-513039/8	300.15762	130.589029	50.0	765294.0	0.435068	Y



Calibration

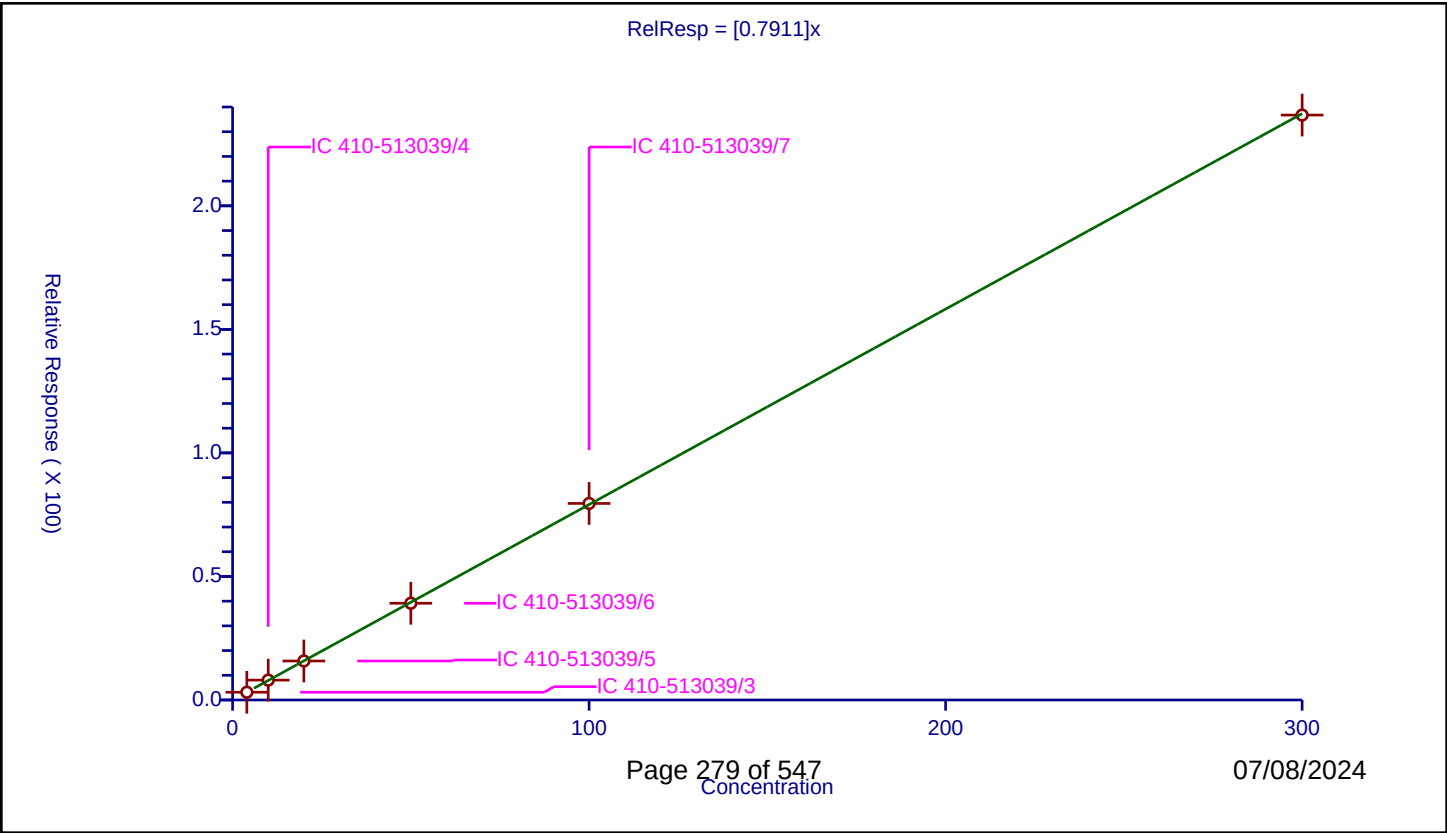
/ n-Butyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7911
Error Coefficients	

Relative Standard Deviation: 1.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/3	4.0	3.138098	50.0	753944.0	0.784524	Y
2	IC 410-513039/4	10.0	8.047913	50.0	730705.0	0.804791	Y
3	IC 410-513039/5	20.0	15.785697	50.0	730880.0	0.789285	Y
4	IC 410-513039/6	50.0	39.157158	50.0	740447.0	0.783143	Y
5	IC 410-513039/7	100.0	79.547177	50.0	729601.0	0.795472	Y
6	IC 410-513039/8	300.0	236.74529	50.0	765294.0	0.789151	Y



Calibration

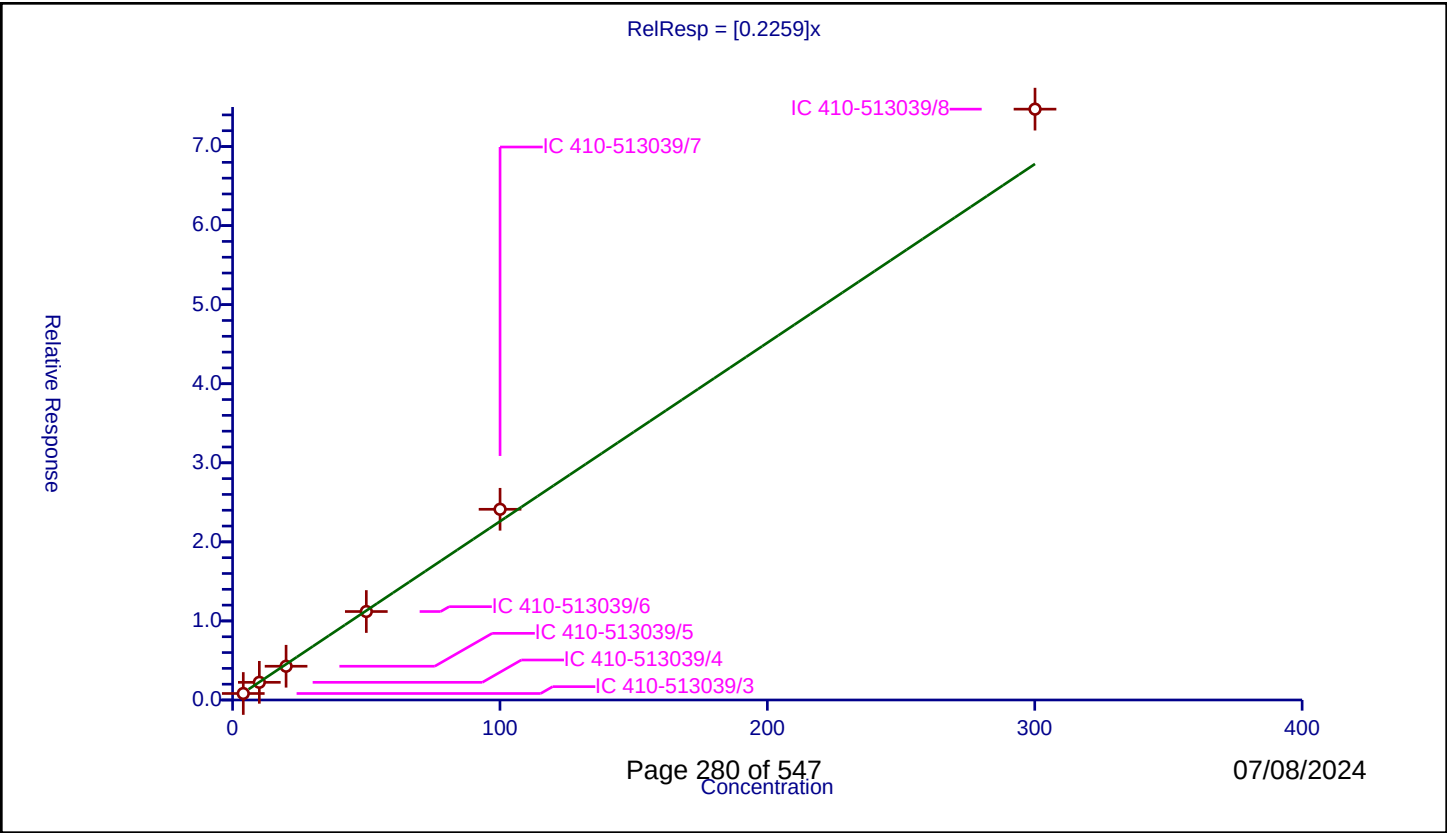
/ cis-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2259
Error Coefficients	

Relative Standard Deviation: 7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/3	4.0014	0.820154	50.0	753944.0	0.204967	Y
2	IC 410-513039/4	10.0035	2.234896	50.0	730705.0	0.223411	Y
3	IC 410-513039/5	20.007	4.267595	50.0	730880.0	0.213305	Y
4	IC 410-513039/6	50.0175	11.188917	50.0	740447.0	0.2237	Y
5	IC 410-513039/7	100.035	24.119142	50.0	729601.0	0.241107	Y
6	IC 410-513039/8	300.105	74.730104	50.0	765294.0	0.249013	Y



Calibration

/ Pentachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

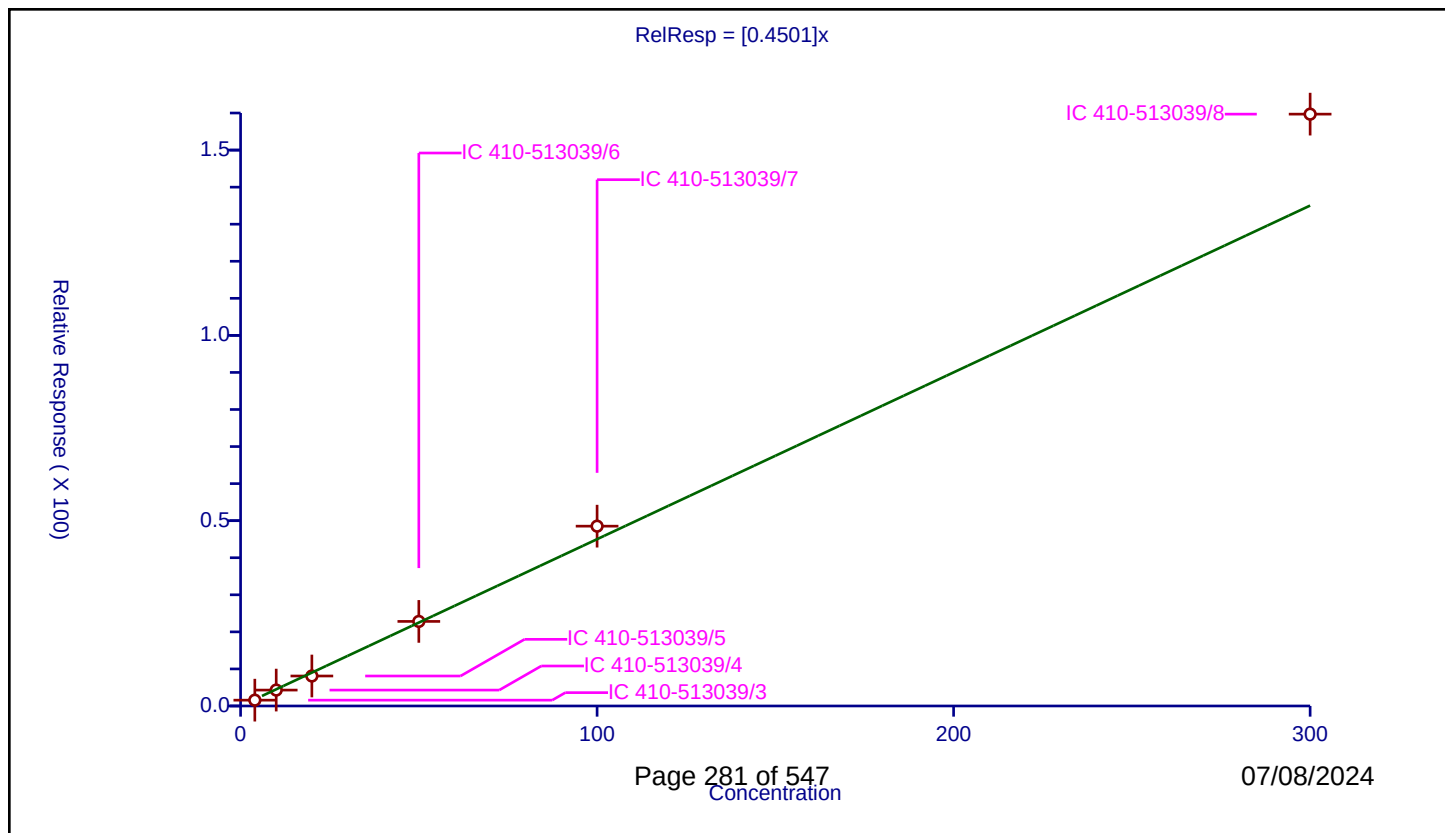
Curve Coefficients

Intercept: 0
Slope: 0.4501

Error Coefficients

Relative Standard Deviation: 11.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/3	4.0	1.570975	50.0	470886.0	0.392744	Y
2	IC 410-513039/4	10.0	4.293905	50.0	457474.0	0.429391	Y
3	IC 410-513039/5	20.0	8.088727	50.0	447215.0	0.404436	Y
4	IC 410-513039/6	50.0	22.817193	50.0	453636.0	0.456344	Y
5	IC 410-513039/7	100.0	48.522294	50.0	449176.0	0.485223	Y
6	IC 410-513039/8	300.0	159.695141	50.0	464346.0	0.532317	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-513039/12	WU03X11.D
Level 2	IC 410-513039/13	WU03X12.D
Level 3	IC 410-513039/14	WU03X13.D
Level 4	IC 410-513039/15	WU03X14.D
Level 5	ICIS 410-513039/16	WU03X15.D
Level 6	IC 410-513039/17	WU03X16.D
Level 7	IC 410-513039/18	WU03X17.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	0.5717 0.6591	0.7544 0.6392	0.8047	0.7191	0.6799	Ave		0.689 7			0.1000	11.2		20.0			
Chloromethane	0.6568 0.5513	0.6587 0.5184	0.6815	0.6139	0.5559	Ave		0.605 2			0.1000	10.5		20.0			
Vinyl chloride	0.5673 0.5836	0.6390 0.5576	0.7220	0.6399	0.5936	Ave		0.614 7			0.1000	9.3		20.0			
1,3-Butadiene	0.5526 0.5772	0.6811 0.5515	0.7290	0.6287	0.5959	Ave		0.616 6				10.9		20.0			
Bromomethane	0.4939 0.3706	0.4485 0.3621	0.4708	0.3870	0.3705	Ave		0.414 8			0.1000	13.2		20.0			
Chloroethane	0.2791 0.2854	0.3335 0.2759	0.3489	0.3053	0.2886	Ave		0.302 4			0.1000	9.4		20.0			
Dichlorofluoromethane	0.8617 0.8056	0.9106 0.7698	0.9657	0.8638	0.8075	Ave		0.855 0			0.1000	7.9		20.0			
Trichlorofluoromethane	0.5746 0.6675	0.7314 0.6608	0.8015	0.7148	0.6813	Ave		0.690 3			0.1000	10.2		20.0			
n-Pentane	0.4579 0.5127	0.5254 0.5381	0.5300	0.5545	0.5190	Ave		0.519 6				5.9		20.0			
Ethanol	++++ 0.0650	0.0776 0.0744	0.0673	0.0719	0.0713	Ave		0.071 2				6.4		20.0			
Freon 123a	0.4546 0.4003	0.4743 0.3907	0.5026	0.4342	0.4128	Ave		0.438 5				9.3		20.0			
Acrolein	1.5885 1.6379	1.6370 1.5754	1.3374	1.6389	1.5979	Ave		1.573 3				6.8		20.0			
1,1-Dichloroethene	0.2742 0.3073	0.3151 0.3168	0.3099	0.3249	0.3020	Ave		0.307 2			0.1000	5.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

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	0.2971 0.3724	0.3735 0.3798	0.3728	0.3978	0.3796	Ave		0.367 6			0.1000	8.8		20.0			
Acetone	0.6462 0.8526	0.8465 0.7963	0.7824	0.8307	0.8750	Ave		0.804 2			0.1000	9.5		20.0			
Methyl iodide	0.5412 0.5973	0.5802 0.5910	0.5977	0.6205	0.5802	Ave		0.586 9				4.1		20.0			
2-Propanol	++++ 0.4536	0.5983 0.5706	0.4122	0.5500	0.5109	Ave		0.515 9				13.9		20.0			
Carbon disulfide	0.8495 1.0396	1.0331 1.0526	1.0416	1.0854	1.0230	Ave		1.017 8			0.1000	7.5		20.0			
Methyl acetate	0.3469 0.3140	0.3126 0.2998	0.3239	0.3244	0.3115	Ave		0.319 0			0.1000	4.7		20.0			
Allyl chloride	0.3974 0.4079	0.4013 0.4050	0.4108	0.4285	0.3996	Ave		0.407 2				2.6		20.0			
Methylene Chloride	0.3538 0.3206	0.3316 0.3198	0.3351	0.3362	0.3145	Ave		0.330 2			0.1000	4.0		20.0			
t-Butyl alcohol	1.2189 0.9970	1.0208 1.0101	0.9758	1.1305	1.0405	Ave		1.056 2				8.3		20.0			
Acrylonitrile	0.2311 0.1757	0.1887 0.1679	0.1952	0.1884	0.1697	Ave		0.188 1				11.5		20.0			
Methyl tert-butyl ether	0.9624 0.9630	0.9845 0.9320	1.0079	1.0116	0.9471	Ave		0.972 7			0.1000	3.1		20.0			
trans-1,2-Dichloroethene	0.2508 0.2768	0.2788 0.2745	0.2852	0.2948	0.2757	Ave		0.276 7			0.1000	4.9		20.0			
n-Hexane	0.3688 0.3807	0.4056 0.3691	0.3981	0.4181	0.3953	Ave		0.390 8				4.8		20.0			
1,1-Dichloroethane	0.4412 0.4719	0.4696 0.4660	0.4849	0.5105	0.4791	Ave		0.474 7			0.2000	4.4		20.0			
Isopropyl ether	0.9042 0.8653	0.8656 0.8411	0.9024	0.9067	0.8588	Ave		0.877 7				3.0		20.0			
2-Chloro-1,3-butadiene	0.3953 0.4380	0.4499 0.4253	0.4488	0.4711	0.4392	Ave		0.438 2				5.4		20.0			
Ethyl t-butyl ether	0.8403 0.8934	0.8994 0.8752	0.9065	0.9454	0.8764	Ave		0.890 9				3.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Butanone (MEK)	0.2894 0.2382	0.2816 0.2321	0.2454	0.2343	0.2243	Ave		0.249 3			0.1000	10.3		20.0			
cis-1,2-Dichloroethene	0.2888 0.3098	0.3193 0.2981	0.3193	0.3273	0.3018	Ave		0.309 2			0.1000	4.4		20.0			
2,2-Dichloropropane	0.4845 0.5361	0.5332 0.5349	0.5445	0.5640	0.5265	Ave		0.532 n				4.5		20.0			
Propionitrile	1.3027 1.3052	1.2850 1.2239	1.2419	1.3394	1.3195	Ave		1.288 2				3.2		20.0			
Methyl acrylate	0.4745 0.4358	0.4912 0.4339	0.4900	0.4423	0.4308	Ave		0.456 9				6.0		20.0			
Methacrylonitrile	0.2163 0.1796	0.1820 0.1760	0.1882	0.1833	0.1747	Ave		0.185 7				7.7		20.0			
Bromochloromethane	0.1389 0.1604	0.1562 0.1568	0.1641	0.1666	0.1560	Ave		0.157 n				5.7		20.0			
Tetrahydrofuran	1.0655 1.2084	1.2405 1.1542	1.0756	1.2736	1.1902	Ave		1.172 6				6.8		20.0			
Chloroform	1.4052 0.4955	0.7035 0.4725	0.5840	0.5608	0.4951	Lin2	0.918 3	0.485 8			0.2000				0.9990		0.9900
1,1,1-Trichloroethane	0.4348 0.5349	0.5332 0.5357	0.5369	0.5529	0.5269	Ave		0.522 2			0.1000	7.5		20.0			
Cyclohexane	0.5361 0.6054	0.6182 0.6117	0.5868	0.6497	0.6135	Ave		0.603 n			0.1000	5.8		20.0			
Carbon tetrachloride	0.3459 0.4680	0.4433 0.4767	0.4486	0.4764	0.4564	Ave		0.445 n			0.1000	10.2		20.0			
1,1-Dichloropropene	0.3474 0.4115	0.4257 0.4018	0.4246	0.4383	0.4099	Ave		0.408 5				7.2		20.0			
Isobutyl alcohol	+++++ 0.3437	0.4068 0.3269	0.3386	0.3642	0.3512	Ave		0.355 2				7.9		20.0			
Benzene	1.0292 1.1695	1.1508 1.1361	1.1707	1.2287	1.1524	Ave		1.148 2			0.5000	5.2		20.0			
1,2-Dichloroethane	0.3731 0.3814	0.3811 0.3770	0.3880	0.3949	0.3847	Ave		0.382 9			0.1000	1.9		20.0			
t-Amyl methyl ether	0.8440 0.9253	0.9032 0.8992	0.9367	0.9839	0.8952	Ave		0.912 5				4.7		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.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Heptane	0.3409 0.3452	0.3501 0.3317	0.3476	0.3646	0.3580	Ave		0.348 3				3.1		20.0			
n-Butanol	0.3610 0.2728	0.3168 0.2740	0.2661	0.2889	0.2814	Ave		0.294 4				11.4		20.0			
Trichloroethene	0.2909 0.3125	0.3058 0.3101	0.3007	0.3214	0.3049	Ave		0.306 6			0.2000	3.1		20.0			
Ethyl acrylate	0.5579 0.4650	0.4493 0.4748	0.4475	0.4609	0.4396	Ave		0.470 7				8.5		20.0			
Methylcyclohexane	0.4358 0.5951	0.5768 0.6059	0.5765	0.6160	0.6043	Ave		0.572 9			0.1000	10.9		20.0			
1,2-Dichloropropane	0.2642 0.2956	0.2800 0.2961	0.2928	0.2967	0.2872	Ave		0.287 5			0.1000	4.1		20.0			
t-Amyl ethyl ether	0.4019 0.4856	0.4480 0.5008	0.4624	0.4718	0.4531	Ave		0.460 5				6.9		20.0			
Methyl methacrylate	0.3121 0.2633	0.2501 0.2773	0.2693	0.2646	0.2575	Ave		0.270 6				7.5		20.0			
1,4-Dioxane	++++ 0.0708	0.0619 0.0781	0.0699	0.0757	0.0733	Ave		0.071 6			0.0050	7.9		20.0			
Dibromomethane	0.1878 0.2063	0.2043 0.2065	0.2062	0.2122	0.1996	Ave		0.203 3				3.8		20.0			
Bromodichloromethane	0.3314 0.3720	0.3375 0.3783	0.3447	0.3641	0.3522	Ave		0.354 3			0.2000	5.0		20.0			
2-Nitropropane	1.9906 2.3247	2.1258 2.2841	1.8540	2.2959	2.2574	Ave		2.161 8				8.3		20.0			
2-Chloroethyl vinyl ether	0.1933 0.2100	0.1945 0.2171	0.2066	0.2023	0.1995	Ave		0.203 3				4.2		20.0			
cis-1,3-Dichloropropene	0.3871 0.4651	0.4118 0.4867	0.4202	0.4397	0.4372	Ave		0.435 4			0.2000	7.7		20.0			
4-Methyl-2-pentanone (MIBK)	0.4632 0.4917	0.4805 0.4594	0.5045	0.4788	0.4703	Ave		0.478 3			0.1000	3.3		20.0			
Toluene	0.8779 0.9816	0.9736 0.9552	0.9983	1.0285	0.9833	Ave		0.971 2			0.4000	4.8		20.0			
trans-1,3-Dichloropropene	0.4999 0.5398	0.4981 0.5441	0.5073	0.5299	0.5258	Ave		0.520 7			0.1000	3.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethyl methacrylate	0.6286 0.6089	0.6263 0.5809	0.6265	0.6230	0.6041	Ave		0.614 1				2.8		20.0			
1,1,2-Trichloroethane	0.3331 0.3456	0.3449 0.3348	0.3474	0.3475	0.3450	Ave		0.342 6			0.1000	1.8		20.0			
Tetrachloroethene	0.3756 0.4366	0.4267 0.4232	0.4415	0.4486	0.4443	Ave		0.428 1			0.2000	5.8		20.0			
1,3-Dichloropropane	0.5322 0.5583	0.5415 0.5419	0.5545	0.5753	0.5584	Ave		0.551 7				2.6		20.0			
2-Hexanone	0.4718 0.4235	0.4150 0.3842	0.4516	0.4355	0.4237	Ave		0.429 3			0.1000	6.5		20.0			
Dibromochloromethane	0.3275 0.3947	0.3402 0.3995	0.3635	0.3846	0.3771	Ave		0.369 6				7.4		20.0			
1,2-Dibromoethane (EDB)	0.3365 0.3673	0.3624 0.3589	0.3706	0.3756	0.3670	Ave		0.362 6			0.1000	3.5		20.0			
1-Chlorohexane	0.5421 0.5175	0.5525 0.5060	0.5392	0.5570	0.5370	Ave		0.535 9				3.4		20.0			
Chlorobenzene	0.9199 1.0602	1.0322 1.0408	1.0843	1.0867	1.0553	Ave		1.039 9			0.5000	5.5		20.0			
1,1,1,2-Tetrachloroethane	0.3696 0.4395	0.4251 0.4182	0.4332	0.4399	0.4351	Ave		0.422 9				5.9		20.0			
Ethylbenzene	1.6990 1.9388	1.9318 1.8220	1.9971	2.0369	1.9821	Ave		1.915 4			0.1000	6.1		20.0			
m&p-Xylene	0.6659 0.7749	0.7479 0.7402	0.7825	0.7997	0.7869	Ave		0.756 9			0.1000	6.0		20.0			
n-Butyl acrylate	0.8849 0.8418	0.8730 0.7672	0.8956	0.8744	0.8480	Ave		0.855 0				5.0		20.0			
o-Xylene	0.6523 0.8280	0.7976 0.7967	0.8262	0.8562	0.8441	Ave		0.800 2			0.3000	8.6		20.0			
Styrene	1.0571 1.2069	1.1583 1.1940	1.2062	1.2238	1.1964	Ave		1.177 5			0.3000	4.8		20.0			
Bromoform	0.2712 0.2951	0.2588 0.2975	0.2755	0.2811	0.2864	Ave		0.280 8			0.1000	4.9		20.0			
Isopropylbenzene	1.7159 2.0518	1.9490 1.8830	2.0856	2.1469	2.1027	Ave		1.990 7			0.1000	7.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Cyclohexanone	0.2766 0.2901	0.3044 0.3241	0.2863	0.3044	0.2977	Ave		0.297 6				5.2		20.0			
1,1,2,2-Tetrachloroethane	1.1317 1.1193	1.0047 1.0663	1.1088	1.1306	1.0968	Ave		1.094 n			0.3000	4.2		20.0			
Bromobenzene	0.7034 0.8025	0.7420 0.8031	0.7668	0.8020	0.7750	Ave		0.770 7				4.9		20.0			
trans-1,4-Dichloro-2-butene	0.3210 0.3272	0.2996 0.3144	0.3226	0.3301	0.3207	Ave		0.319 4				3.2		20.0			
1,2,3-Trichloropropane	0.3693 0.3565	0.3308 0.3303	0.3587	0.3587	0.3431	Ave		0.349 6				4.3		20.0			
N-Propylbenzene	3.2037 4.0301	3.6965 3.6591	3.8893	4.1428	4.0215	Ave		3.806 1				8.4		20.0			
2-Chlorotoluene	0.7814 0.8607	0.7588 0.8377	0.8157	0.8680	0.8372	Ave		0.822 8				4.9		20.0			
1,3,5-Trimethylbenzene	2.3331 3.1492	2.6832 3.0024	2.9059	3.1006	3.0862	Ave		2.894 4				10.1		20.0			
4-Chlorotoluene	0.7057 0.8061	0.7405 0.8089	0.7723	0.8061	0.7855	Ave		0.775 n				5.1		20.0			
tert-Butylbenzene	0.4195 0.6406	0.4922 0.6418	0.5534	0.5981	0.6150	Ave		0.565 8				14.7		20.0			
1,2,4-Trimethylbenzene	2.5203 3.2049	2.7190 3.0395	2.9564	3.1654	3.1265	Ave		2.961 7				8.6		20.0			
sec-Butylbenzene	2.6263 3.9075	3.2675 3.6536	3.5182	3.8010	3.8844	Ave		3.522 7				12.9		20.0			
1,3-Dichlorobenzene	1.3583 1.5511	1.4429 1.5268	1.5313	1.5979	1.5257	Ave		1.504 9			0.6000	5.3		20.0			
p-Isopropyltoluene	2.4743 3.4326	2.9384 3.2620	3.1432	3.3327	3.4063	Ave		3.141 4				10.8		20.0			
1,4-Dichlorobenzene	1.4474 1.5604	1.4702 1.5292	1.5620	1.5998	1.5489	Ave		1.531 1			0.5000	3.5		20.0			
1,2,3-Trimethylbenzene	2.5988 3.4051	2.8989 3.2392	3.1366	3.3089	3.3102	Ave		3.128 2				9.1		20.0			
Benzyl chloride	1.9895 2.3734	2.0099 2.2617	2.1950	2.3120	2.3092	Ave		2.207 3				6.9		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.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3-Diethylbenzene	1.5126 2.0047	1.7465 1.9645	1.8670	1.9781	1.9880	Ave		1.865 9				9.7		20.0			
1,4-Diethylbenzene	1.5003 2.0411	1.8081 1.9851	1.9296	2.0520	2.0394	Ave		1.907 9				10.4		20.0			
n-Butylbenzene	1.1180 1.5873	1.3893 1.5568	1.4862	1.5760	1.5897	Ave		1.471 9				11.7		20.0			
1,2-Dichlorobenzene	1.5365 1.6680	1.5100 1.6203	1.6359	1.6662	1.6310	Ave		1.609 7			0.4000	3.9		20.0			
1,2-Diethylbenzene	1.2053 1.7045	1.3920 1.7145	1.5301	1.6428	1.6540	Ave		1.549 0				12.2		20.0			
1,2-Dibromo-3-Chloropropane	0.3735 0.3391	0.3144 0.3326	0.3418	0.3338	0.3266	Ave		0.337 4			0.0500	5.4		20.0			
1,3,5-Trichlorobenzene	1.0241 1.1866	1.0943 1.1372	1.1900	1.2322	1.1794	Ave		1.149 1				6.1		20.0			
1,2,4-Trichlorobenzene	1.0642 1.1722	1.1193 1.1240	1.2010	1.2317	1.1733	Ave		1.155 1			0.2000	4.9		20.0			
2-Ethylhexyl acrylate	1.1766 1.1928	0.9504 1.1959	1.0892	1.1214	1.1667	Ave		1.127 6				7.7		20.0			
Hexachlorobutadiene	0.2976 0.4203	0.3783 0.4303	0.4049	0.4232	0.4234	Ave		0.396 8				11.9		20.0			
Naphthalene	4.3694 4.6477	4.4164 4.1718	4.9357	4.8784	4.6138	Ave		4.576 2				6.0		20.0			
1,2,3-Trichlorobenzene	1.0817 1.1743	1.1214 1.1435	1.2149	1.2425	1.1730	Ave		1.164 5				4.7		20.0			
2-Methylnaphthalene	2.1724 2.6791	2.2792 2.5696	2.6991	2.6807	2.6118	Ave		2.527 4				8.4		20.0			
Dibromofluoromethane (Surr)	0.2549 0.2470	0.2530 0.2415	0.2515	0.2479	0.2478	Ave		0.249 1				1.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0631 0.0613	0.0641 0.0612	0.0632	0.0635	0.0606	Ave		0.062 4				2.2		20.0			
Toluene-d8 (Surr)	1.3796 1.3546	1.3823 1.3394	1.3819	1.3669	1.3776	Ave		1.368 9				1.2		20.0			
4-Bromofluorobenzene (Surr)	0.5116 0.4865	0.5020 0.4849	0.5018	0.4985	0.4943	Ave		0.497 1				1.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-513039/12	WU03X11.D
Level 2	IC 410-513039/13	WU03X12.D
Level 3	IC 410-513039/14	WU03X13.D
Level 4	IC 410-513039/15	WU03X14.D
Level 5	ICIS 410-513039/16	WU03X15.D
Level 6	IC 410-513039/17	WU03X16.D
Level 7	IC 410-513039/18	WU03X17.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	10863 1354900	58753 4133820	157608	278174	699220	1.00 100	4.00 300	10.0	20.0	50.0
Chloromethane	FB	Ave	12480 1133176	51295 3352751	133478	237476	571704	1.00 100	4.00 300	10.0	20.0	50.0
Vinyl chloride	FB	Ave	10779 1199716	49767 3606158	141401	247536	610516	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Butadiene	FB	Ave	10499 1186417	53043 3566640	142779	243213	612859	1.00 100	4.00 300	10.0	20.0	50.0
Bromomethane	FB	Ave	9385 761866	34926 2342148	92201	149713	380997	1.00 100	4.00 300	10.0	20.0	50.0
Chloroethane	FB	Ave	5303 586663	25974 1784464	68330	118102	296800	1.00 100	4.00 300	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	16373 1655929	70913 4978981	189136	334154	830417	1.00 100	4.00 300	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	10917 1372128	56963 4274034	156982	276493	700641	1.00 100	4.00 300	10.0	20.0	50.0
n-Pentane	FB	Ave	8700 1053916	40914 3479859	103795	214510	533770	1.00 100	4.00 300	10.0	20.0	50.0
Ethanol	TBA d1 0	Ave	++++ 198823	21444 724790	48024	79316	104714	++++ 2500	250 7500	500	1000	1250
Freon 123a	FB	Ave	8637 822843	36938 2526762	98433	167966	424578	1.00 100	4.00 300	10.0	20.0	50.0
Acrolein	TBA d1 0	Ave	20743 2007968	72558 6154040	191393	362197	940822	10.0 1002	40.1 3007	100	200	501
1,1-Dichloroethene	FB	Ave	5209 631690	24538 2048679	60699	125669	310589	1.00 100	4.00 300	10.0	20.0	50.0
Freon 113	FB	Ave	5644 765441	29091 2456096	73020	153887	390402	1.00 100	4.00 300	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

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
Acetone	TBAd10	Ave	1684	7487	22345	36635	102809	2.00	8.00	20.0	40.0	100
			208601	620722				200	600			
Methyl iodide	FB	Ave	10283	45182	117063	240038	596700	1.00	4.00	10.0	20.0	50.0
			1227713	3822318				100	300			
2-Propanol	TBAd10	Ave	++++	13231	29434	60638	150079	++++	20.0	50.0	100	250
			277437	1111974				500	1500			
Carbon disulfide	FB	Ave	16140	80459	203996	419851	1052107	1.00	4.00	10.0	20.0	50.0
			2137060	6807508				100	300			
Methyl acetate	FB	Ave	6592	24343	63434	125475	320403	1.00	4.00	10.0	20.0	50.0
			645402	1939001				100	300			
Allyl chloride	FB	Ave	7550	31252	80460	165753	410996	1.00	4.00	10.0	20.0	50.0
			838435	2619118				100	300			
Methylene Chloride	FB	Ave	6722	25824	65628	130036	323425	1.00	4.00	10.0	20.0	50.0
			658922	2068634				100	300			
t-Butyl alcohol	TBAd10	Ave	7941	22573	69669	124649	305640	5.00	20.0	50.0	100	250
			609788	1968472				500	1500			
Acrylonitrile	FB	Ave	10979	36733	95558	182203	436374	2.50	10.0	25.0	50.0	125
			902699	2715035				250	750			
Methyl tert-butyl ether	FB	Ave	18285	76667	197406	391327	974075	1.00	4.00	10.0	20.0	50.0
			1979538	6027973				100	300			
trans-1,2-Dichloroethene	FB	Ave	4765	21712	55853	114052	283499	1.00	4.00	10.0	20.0	50.0
			569006	1775549				100	300			
n-Hexane	FB	Ave	7008	31584	77969	161732	406489	1.00	4.00	10.0	20.0	50.0
			782477	2387051				100	300			
1,1-Dichloroethane	FB	Ave	8383	36572	94965	197467	492720	1.00	4.00	10.0	20.0	50.0
			969966	3014180				100	300			
Isopropyl ether	FB	Ave	17179	67414	176739	350748	883207	1.00	4.00	10.0	20.0	50.0
			1778763	5439612				100	300			
2-Chloro-1,3-butadiene	FB	Ave	7511	35038	87900	182253	451689	1.00	4.00	10.0	20.0	50.0
			900390	2750580				100	300			
Ethyl t-butyl ether	FB	Ave	15965	70040	177543	365719	901359	1.00	4.00	10.0	20.0	50.0
			1836491	5660126				100	300			
2-Butanone (MEK)	FB	Ave	10997	43868	96116	181298	461426	2.00	8.00	20.0	40.0	100
			979389	3002389				200	600			
cis-1,2-Dichloroethene	FB	Ave	5487	24868	62533	126610	310396	1.00	4.00	10.0	20.0	50.0
			636762	1928067				100	300			
2,2-Dichloropropane	FB	Ave	9206	41528	106640	218174	541500	1.00	4.00	10.0	20.0	50.0
			1101898	3459220				100	300			

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

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	8487 798317	28415 2385215	88672	147678	387600	5.00 500	20.0 1500	50.0	100	250
Methyl acrylate	FB	Ave	9016 895867	38259 2806411	95976	171128	443093	1.00 100	4.00 300	10.0	20.0	50.0
Methacrylonitrile	FB	Ave	10276 923185	35434 2845044	92126	177269	449250	2.50 250	10.0 750	25.0	50.0	125
Bromochloromethane	FB	Ave	2639 329663	12164 1013894	32138	64445	160414	1.00 100	4.00 300	10.0	20.0	50.0
Tetrahydrofuran	TBA01	Ave	6942 739089	27431 2249355	76795	140426	349618	5.00 500	20.0 1500	50.0	100	250
Chloroform	FB	Lin2	26698 1018511	54785 3056187	114377	216934	509209	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	8262 1099563	41524 3464928	105145	213890	541911	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexane	FB	Ave	10186 1244442	48144 3956424	114921	251312	630906	1.00 100	4.00 300	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	6572 961949	34524 3082744	87856	184268	469411	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	6601 845864	33156 2598728	83160	169560	421579	1.00 100	4.00 300	10.0	20.0	50.0
Isobutyl alcohol	TBA01	Ave	++++ 525557	22491 1592648	60448	100381	257929	++++ 1250	50.0 3750	125	250	625
Benzene	FB	Ave	19555 2404059	89622 7347791	229292	475276	1185138	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	7088 784076	29677 2438027	76000	152742	395659	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl methyl ether	FB	Ave	16037 1901945	70336 5815623	183461	380597	920611	1.00 100	4.00 300	10.0	20.0	50.0
n-Heptane	FB	Ave	6477 709528	27264 2145416	68088	141055	368186	1.00 100	4.00 300	10.0	20.0	50.0
n-Butanol	TBA01	Ave	5880 417209	17514 1334759	47504	79644	206680	12.5 1250	50.0 3750	125	250	625
Trichloroethene	FB	Ave	5528 642367	23818 2005285	58890	124336	313541	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl acrylate	FB	Ave	10599 955756	34988 3070586	87635	178273	452045	1.000 100.0	4.00 300	10.00	20.0	50.0
Methylcyclohexane	FB	Ave	8280	44921	112914	238277	621433	1.00	4.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

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
			1223347	3918892				100	300			
1,2-Dichloropropane	FB	Ave	5020 607611	21804 1915126	57350	114768	295325	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl ethyl ether	FB	Ave	7636 998096	34887 3238804	90554	182493	465981	1.00 100	4.00 300	10.0	20.0	50.0
Methyl methacrylate	FB	Ave	5929 541327	19480 1793324	52741	102339	264829	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dioxane	TBAD10	Ave	++++ 108213	3423 380549	12469	20872	53795	++++ 1250	50.0 3750	125	250	625
Dibromomethane	FB	Ave	3568 423998	15911 1335831	40390	82100	205303	1.00 100	4.00 300	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	6296 764749	26285 2446941	67513	140828	362191	1.00 100	4.00 300	10.0	20.0	50.0
2-Nitropropane	TBAD10	Ave	12969 1421888	47008 4451336	132374	253133	663107	5.00 500	20.0 1500	50.0	100	250
2-Chloroethyl vinyl ether	FB	Ave	3673 431743	15145 1404209	40460	78268	205191	1.00 100	4.00 300	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	7354 956025	32070 3147626	82295	170107	449673	1.00 100	4.00 300	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	17600 2021240	74845 5942710	197628	370444	967261	2.00 200	8.00 600	20.0	40.0	100
Toluene	CBZd5	Ave	12146 1569112	55758 5079204	142285	298376	754177	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBZd5	Ave	6916 862864	28525 2893166	72303	153727	403263	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl methacrylate	CBZd5	Ave	8697 973397	35866 3088881	89303	180756	463320	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZd5	Ave	4609 552493	19751 1780530	49509	100831	264624	1.00 100	4.00 300	10.0	20.0	50.0
Tetrachloroethene	CBZd5	Ave	5196 697993	24435 2250526	62925	130150	340725	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichloropropane	CBZd5	Ave	7364 892430	31010 2881800	79034	166919	428281	1.00 100	4.00 300	10.0	20.0	50.0
2-Hexanone	CBZd5	Ave	13056 1354074	47533 4086531	128726	252671	649857	2.00 200	8.00 600	20.0	40.0	100
Dibromochloromethane	CBZd5	Ave	4531 630951	19484 2124309	51808	111594	289226	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromoethane (EDB)	CBZd5	Ave	4656 587135	20751 1908269	52816	108978	281466	1.00 100	4.00 300	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

Analy Batch No.: 513039

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1-Chlorohexane	CBZd5	Ave	7500 827222	31641 2690821	76854	161603	411835	1.00 100	4.00 300	10.0	20.0	50.0
Chlorobenzene	CBZd5	Ave	12727 1694756	59113 5534731	154540	315279	809345	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZd5	Ave	5114 702626	24342 2223984	61751	127615	333674	1.00 100	4.00 300	10.0	20.0	50.0
Ethylbenzene	CBZd5	Ave	23507 3099286	110628 9688448	284644	590937	1520196	1.00 100	4.00 300	10.0	20.0	50.0
m&p-Xylene	CBZd5	Ave	18426 2477434	85660 7872216	223049	464003	1207094	2.00 200	8.00 600	20.0	40.0	100
n-Butyl acrylate	CBZd5	Ave	12249 1346260	50017 4081531	127715	253811	650682	1.00 100	4.00 300	10.0	20.0	50.0
o-Xylene	CBZd5	Ave	9025 1323584	45676 4236300	117763	248402	647400	1.00 100	4.00 300	10.0	20.0	50.0
Styrene	CBZd5	Ave	14626 1929274	66332 6348960	171926	355046	917595	1.00 100	4.00 300	10.0	20.0	50.0
Bromoform	CBZd5	Ave	3752 471708	14823 1582122	39272	81557	219626	1.00 100	4.00 300	10.0	20.0	50.0
Isopropylbenzene	CBZd5	Ave	23740 3279852	111615 10012868	297265	622874	1612647	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexanone	TBA d1 0	Ave	18021 443571	67305 1578813	102209	167786	218593	50.0 1250	200 3750	250	500	625
1,1,2,2-Tetrachloroethane	DCBd4	Ave	9824 1029036	36012 3189150	97597	198086	500093	1.00 100	4.00 300	10.0	20.0	50.0
Bromobenzene	DCBd4	Ave	6106 737814	26596 2401938	67490	140520	353375	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd4	Ave	6967 752126	26843 2351089	70988	144593	365607	2.50 250	10.0 750	25.0	50.0	125
1,2,3-Trichloropropane	DCBd4	Ave	3206 327742	11859 987922	31574	62841	156455	1.00 100	4.00 300	10.0	20.0	50.0
N-Propylbenzene	DCBd4	Ave	27811 3705101	132499 10943588	342335	725846	1833669	1.00 100	4.00 300	10.0	20.0	50.0
2-Chlorotoluene	DCBd4	Ave	6783 791300	27198 2505324	71799	152082	381728	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd4	Ave	20253 2895253	96179 8979553	255774	543240	1407192	1.00 100	4.00 300	10.0	20.0	50.0
4-Chlorotoluene	DCBd4	Ave	6126 741133	26542 2419186	67974	141233	358161	1.00 100	4.00 300	10.0	20.0	50.0
tert-Butylbenzene	DCBd4	Ave	3642	17644	48710	104782	280398	1.00	4.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

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
			588940	1919328				100	300			
1,2,4-Trimethylbenzene	DCBd4	Ave	21878 2946432	97462 9090538	260225	554592	1425568	1.00 100	4.00 300	10.0	20.0	50.0
sec-Butylbenzene	DCBd4	Ave	22799 3592456	117123 10926977	309672	665960	1771145	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd4	Ave	11791 1426057	51721 4566234	134783	279965	695683	1.00 100	4.00 300	10.0	20.0	50.0
p-Isopropyltoluene	DCBd4	Ave	21479 3155842	105325 9755897	276667	583908	1553183	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dichlorobenzene	DCBd4	Ave	12565 1434610	52700 4573333	137487	280290	706258	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trimethylbenzene	DCBd4	Ave	22560 3130528	103910 9687754	276085	579731	1509336	1.00 100	4.00 300	10.0	20.0	50.0
Benzyl chloride	DCBd4	Ave	17271 2181990	72044 6764152	193208	405078	1052922	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Diethylbenzene	DCBd4	Ave	13131 1843036	62602 5875332	164336	346573	906468	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Diethylbenzene	DCBd4	Ave	13024 1876524	64811 5936828	169847	359516	929890	1.00 100	4.00 300	10.0	20.0	50.0
n-Butylbenzene	DCBd4	Ave	9705 1459306	49798 4656150	130812	276119	724864	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd4	Ave	13338 1533487	54125 4845988	143995	291933	743680	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Diethylbenzene	DCBd4	Ave	10463 1567100	49895 5127636	134680	287826	754156	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	3242 311777	11268 994685	30081	58476	148902	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trichlorobenzene	DCBd4	Ave	8890 1090956	39224 3401173	104740	215880	537790	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd4	Ave	9238 1077696	40119 3361522	105711	215808	535003	1.00 100	4.00 300	10.0	20.0	50.0
2-Ethylhexyl acrylate	DCBd4	Ave	10211 1096309	34056 3575666	95844	196418	531818	1.000 100.0	4.00 300	10.00	20.0	50.0
Hexachlorobutadiene	DCBd4	Ave	2583 386365	13559 1286781	35637	74144	193054	1.00 100	4.00 300	10.0	20.0	50.0
Naphthalene	DCBd4	Ave	37930 4272966	158305 12476970	434437	854723	2103730	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd4	Ave	9390 1079604	40196 3419811	106939	217689	534858	1.00 100	4.00 300	10.0	20.0	50.0
2-Methylnaphthalene	DCBd4	Ave	18858	81698	237578	469667	1190894	1.00	4.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

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
			2463033	7685149				100	300			
Dibromofluoromethane (Surr)	FB	Ave	242135 253874	246315 260278	246286	239729	254868	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	59928 62965	62385 66000	61915	61445	62277	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBZd5	Ave	954397 1082674	989500 1187104	984808	991446	1056521	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	353942 388839	359345 429729	357608	361543	379101	50.0 50.0	50.0 50.0	50.0	50.0	50.0

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 Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-513039/12	WU03X11.D
Level 2	IC 410-513039/13	WU03X12.D
Level 3	IC 410-513039/14	WU03X13.D
Level 4	IC 410-513039/15	WU03X14.D
Level 5	ICIS 410-513039/16	WU03X15.D
Level 6	IC 410-513039/17	WU03X16.D
Level 7	IC 410-513039/18	WU03X17.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	-17.1 -7.3	9.4	16.7	4.3	-1.4	-4.4	50 30	30	30	30	30	30
Chloromethane	8.5 -14.3	8.8	12.6	1.4	-8.1	-8.9	50 30	30	30	30	30	30
Vinyl chloride	-7.7 -9.3	4.0	17.4	4.1	-3.4	-5.1	50 30	30	30	30	30	30
1,3-Butadiene	-10.4 -10.6	10.5	18.2	2.0	-3.3	-6.4	50 30	30	30	30	30	30
Bromomethane	19.1 -12.7	8.1	13.5	-6.7	-10.7	-10.6	50 30	30	30	30	30	30
Chloroethane	-7.7 -8.8	10.3	15.4	1.0	-4.6	-5.6	50 30	30	30	30	30	30
Dichlorofluoromethane	0.8 -10.0	6.5	13.0	1.0	-5.6	-5.8	50 30	30	30	30	30	30
Trichlorofluoromethane	-16.8 -4.3	6.0	16.1	3.5	-1.3	-3.3	50 30	30	30	30	30	30
n-Pentane	-11.9 3.5	1.1	2.0	6.7	-0.1	-1.3	50 30	30	30	30	30	30
Ethanol	++++ 4.4	8.9	-5.6	1.0	0.1	-8.7	30	50	30	30	30	30
Freon 123a	3.7 -10.9	8.2	14.6	-1.0	-5.9	-8.7	50 30	30	30	30	30	30
Acrolein	1.0 0.1	4.1	-15.0	4.2	1.6	4.1	50 30	30	30	30	30	30
1,1-Dichloroethene	-10.7 3.1	2.6	0.9	5.8	-1.7	0.0	50 30	30	30	30	30	30
Freon 113	-19.2 3.3	1.6	1.4	8.2	3.3	1.3	50 30	30	30	30	30	30
Acetone	-19.6 -1.0	5.3	-2.7	3.3	8.8	6.0	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

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
Methyl iodide	-7.8 0.7	-1.1	1.8	5.7	-1.1	1.8	50 30	30	30	30	30	30
2-Propanol	+++++ 10.6	16.0	-20.1	6.6	-1.0	-12.1	30	50	30	30	30	30
Carbon disulfide	-16.5 3.4	1.5	2.3	6.6	0.5	2.1	50 30	30	30	30	30	30
Methyl acetate	8.8 -6.0	-2.0	1.5	1.7	-2.3	-1.6	50 30	30	30	30	30	30
Allyl chloride	-2.4 -0.6	-1.5	0.9	5.2	-1.9	0.2	50 30	30	30	30	30	30
Methylene Chloride	7.1 -3.1	0.4	1.5	1.8	-4.8	-2.9	50 30	30	30	30	30	30
t-Butyl alcohol	15.4 -4.4	-3.4	-7.6	7.0	-1.5	-5.6	50 30	30	30	30	30	30
Acrylonitrile	22.9 -10.7	0.3	3.8	0.2	-9.8	-6.6	50 30	30	30	30	30	30
Methyl tert-butyl ether	-1.1 -4.2	1.2	3.6	4.0	-2.6	-1.0	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-9.4 -0.8	0.8	3.1	6.6	-0.4	0.1	50 30	30	30	30	30	30
n-Hexane	-5.6 -5.6	3.8	1.9	7.0	1.1	-2.6	50 30	30	30	30	30	30
1,1-Dichloroethane	-7.1 -1.8	-1.1	2.1	7.5	0.9	-0.6	50 30	30	30	30	30	30
Isopropyl ether	3.0 -4.2	-1.4	2.8	3.3	-2.2	-1.4	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-9.8 -3.0	2.7	2.4	7.5	0.2	0.0	50 30	30	30	30	30	30
Ethyl t-butyl ether	-5.7 -1.8	0.9	1.7	6.1	-1.6	0.3	50 30	30	30	30	30	30
2-Butanone (MEK)	16.1 -6.9	13.0	-1.6	-6.0	-10.0	-4.5	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-6.6 -3.6	3.3	3.3	5.9	-2.4	0.2	50 30	30	30	30	30	30
2,2-Dichloropropane	-8.9 0.5	0.2	2.4	6.0	-1.0	0.8	50 30	30	30	30	30	30
Propionitrile	1.1 -5.0	-0.3	-3.6	4.0	2.4	1.3	50 30	30	30	30	30	30
Methyl acrylate	3.8 -5.0	7.5	7.2	-3.2	-5.7	-4.6	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Methacrylonitrile	16.5 -5.3	-2.0	1.3	-1.3	-5.9	-3.3	50 30	30	30	30	30	30
Bromochloromethane	-11.5 -0.1	-0.5	4.5	6.1	-0.6	2.2	50 30	30	30	30	30	30
Tetrahydrofuran	-9.1 -1.6	5.8	-8.3	8.6	1.5	3.1	50 30	30	30	30	30	30
Chloroform	0.2 -3.4	-2.4	1.3	6.0	-1.9	0.1	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-16.7 2.6	2.1	2.8	5.9	0.9	2.4	50 30	30	30	30	30	30
Cyclohexane	-11.1 1.4	2.5	-2.7	7.7	1.7	0.4	50 30	30	30	30	30	30
Carbon tetrachloride	-22.3 7.1	-0.4	0.8	7.0	2.6	5.2	50 30	30	30	30	30	30
1,1-Dichloropropene	-14.9 -1.6	4.2	3.9	7.3	0.4	0.7	50 30	30	30	30	30	30
Isobutyl alcohol	++++ -8.0	14.5	-4.7	2.5	-1.1	-3.2	30	50	30	30	30	30
Benzene	-10.4 -1.1	0.2	2.0	7.0	0.4	1.9	50 30	30	30	30	30	30
1,2-Dichloroethane	-2.6 -1.5	-0.5	1.3	3.1	0.5	-0.4	50 30	30	30	30	30	30
t-Amyl methyl ether	-7.5 -1.5	-1.0	2.7	7.8	-1.9	1.4	50 30	30	30	30	30	30
n-Heptane	-2.1 -4.8	0.5	-0.2	4.7	2.8	-0.9	50 30	30	30	30	30	30
n-Butanol	22.6 -7.0	7.6	-9.6	-1.9	-4.4	-7.3	50 30	30	30	30	30	30
Trichloroethene	-5.1 1.1	-0.3	-1.9	4.8	-0.6	1.9	50 30	30	30	30	30	30
Ethyl acrylate	18.5 0.9	-4.5	-4.9	-2.1	-6.6	-1.2	50 30	30	30	30	30	30
Methylcyclohexane	-23.9 5.8	0.7	0.6	7.5	5.5	3.9	50 30	30	30	30	30	30
1,2-Dichloropropane	-8.1 3.0	-2.6	1.8	3.2	-0.1	2.8	50 30	30	30	30	30	30
t-Amyl ethyl ether	-12.7 8.7	-2.7	0.4	2.4	-1.6	5.4	50 30	30	30	30	30	30
Methyl methacrylate	15.3 2.5	-7.6	-0.5	-2.2	-4.8	-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 Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dioxane	++++ 9.1	-13.5	-2.4	5.8	2.3	-1.2	30	50	30	30	30	30
Dibromomethane	-7.6 1.6	0.5	1.4	4.4	-1.8	1.5	50 30	30	30	30	30	30
Bromodichloromethane	-6.5 6.8	-4.7	-2.7	2.8	-0.6	5.0	50 30	30	30	30	30	30
2-Nitropropane	-7.9 5.7	-1.7	-14.2	6.2	4.4	7.5	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-4.9 6.8	-4.4	1.6	-0.5	-1.9	3.3	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-11.1 11.8	-5.4	-3.5	1.0	0.4	6.8	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-3.2 -4.0	0.5	5.5	0.1	-1.7	2.8	50 30	30	30	30	30	30
Toluene	-9.6 -1.6	0.3	2.8	5.9	1.3	1.1	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-4.0 4.5	-4.3	-2.6	1.8	1.0	3.7	50 30	30	30	30	30	30
Ethyl methacrylate	2.4 -5.4	2.0	2.0	1.5	-1.6	-0.8	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-2.8 -2.3	0.7	1.4	1.4	0.7	0.9	50 30	30	30	30	30	30
Tetrachloroethene	-12.3 -1.1	-0.3	3.1	4.8	3.8	2.0	50 30	30	30	30	30	30
1,3-Dichloropropane	-3.5 -1.8	-1.9	0.5	4.3	1.2	1.2	50 30	30	30	30	30	30
2-Hexanone	9.9 -10.5	-3.3	5.2	1.4	-1.3	-1.4	50 30	30	30	30	30	30
Dibromochloromethane	-11.4 8.1	-7.9	-1.7	4.1	2.0	6.8	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-7.2 -1.0	-0.1	2.2	3.6	1.2	1.3	50 30	30	30	30	30	30
1-Chlorohexane	1.2 -5.6	3.1	0.6	3.9	0.2	-3.4	50 30	30	30	30	30	30
Chlorobenzene	-11.5 0.1	-0.7	4.3	4.5	1.5	1.9	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-12.6 -1.1	0.5	2.4	4.0	2.9	3.9	50 30	30	30	30	30	30
Ethylbenzene	-11.3 -4.9	0.9	4.3	6.3	3.5	1.2	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
m&p-Xylene	-12.0 -2.2	-1.2	3.4	5.7	4.0	2.4	50 30	30	30	30	30	30
n-Butyl acrylate	3.5 -10.3	2.1	4.8	2.3	-0.8	-1.5	50 30	30	30	30	30	30
o-Xylene	-18.5 -0.4	-0.3	3.3	7.0	5.5	3.5	50 30	30	30	30	30	30
Styrene	-10.2 1.4	-1.6	2.4	3.9	1.6	2.5	50 30	30	30	30	30	30
Bromoform	-3.4 6.0	-7.8	-1.9	0.1	2.0	5.1	50 30	30	30	30	30	30
Isopropylbenzene	-13.8 -5.4	-2.1	4.8	7.8	5.6	3.1	50 30	30	30	30	30	30
Cyclohexanone	-7.1 8.9	2.3	-3.8	2.3	0.0	-2.5	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	3.4 -2.5	-8.2	1.4	3.3	0.3	2.3	50 30	30	30	30	30	30
Bromobenzene	-8.7 4.2	-3.7	-0.5	4.1	0.6	4.1	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	0.5 -1.5	-6.2	1.0	3.4	0.4	2.5	50 30	30	30	30	30	30
1,2,3-Trichloropropane	5.6 -5.5	-5.4	2.6	2.6	-1.9	2.0	50 30	30	30	30	30	30
N-Propylbenzene	-15.8 -3.9	-2.9	2.2	8.8	5.7	5.9	50 30	30	30	30	30	30
2-Chlorotoluene	-5.0 1.8	-7.8	-0.9	5.5	1.8	4.6	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-19.4 3.7	-7.3	0.4	7.1	6.6	8.8	50 30	30	30	30	30	30
4-Chlorotoluene	-8.9 4.4	-4.5	-0.4	4.0	1.4	4.0	50 30	30	30	30	30	30
tert-Butylbenzene	-25.8 13.4	-13.0	-2.2	5.7	8.7	13.2	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-14.9 2.6	-8.2	-0.2	6.9	5.6	8.2	50 30	30	30	30	30	30
sec-Butylbenzene	-25.4 3.7	-7.2	-0.1	7.9	10.3	10.9	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-9.7 1.5	-4.1	1.8	6.2	1.4	3.1	50 30	30	30	30	30	30
p-Isopropyltoluene	-21.2 3.8	-6.5	0.1	6.1	8.4	9.3	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.: 410-177863-1 Analy Batch No.: 513039
Environment Testing, LLC

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2024 21:00 Calibration End Date: 06/03/2024 23:11 Calibration ID: 62399

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dichlorobenzene	-5.5 -0.1	-4.0	2.0	4.5	1.2	1.9	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-16.9 3.5	-7.3	0.3	5.8	5.8	8.9	50 30	30	30	30	30	30
Benzyl chloride	-9.9 2.5	-8.9	-0.6	4.7	4.6	7.5	50 30	30	30	30	30	30
1,3-Diethylbenzene	-18.9 5.3	-6.4	0.1	6.0	6.5	7.4	50 30	30	30	30	30	30
1,4-Diethylbenzene	-21.4 4.0	-5.2	1.1	7.5	6.9	7.0	50 30	30	30	30	30	30
n-Butylbenzene	-24.0 5.8	-5.6	1.0	7.1	8.0	7.8	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-4.5 0.7	-6.2	1.6	3.5	1.3	3.6	50 30	30	30	30	30	30
1,2-Diethylbenzene	-22.2 10.7	-10.1	-1.2	6.1	6.8	10.0	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	10.7 -1.4	-6.8	1.3	-1.1	-3.2	0.5	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-10.9 -1.0	-4.8	3.6	7.2	2.6	3.3	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-7.9 -2.7	-3.1	4.0	6.6	1.6	1.5	50 30	30	30	30	30	30
2-Ethylhexyl acrylate	4.3 6.1	-15.7	-3.4	-0.5	3.5	5.8	50 30	30	30	30	30	30
Hexachlorobutadiene	-25.0 8.4	-4.7	2.0	6.6	6.7	5.9	50 30	30	30	30	30	30
Naphthalene	-4.5 -8.8	-3.5	7.9	6.6	0.8	1.6	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-7.1 -1.8	-3.7	4.3	6.7	0.7	0.8	50 30	30	30	30	30	30
2-Methylnaphthalene	-14.0 1.7	-9.8	6.8	6.1	3.3	6.0	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	2.3 -3.1	1.6	1.0	-0.5	-0.5	-0.8	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	1.1 -1.9	2.7	1.3	1.8	-3.0	-1.9	50 30	30	30	30	30	30
Toluene-d8 (Surr)	0.8 -2.2	1.0	0.9	-0.1	0.6	-1.0	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	2.9 -2.5	1.0	0.9	0.3	-0.6	-2.1	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X11.D
 Lims ID: IC v1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 03-Jun-2024 21:00:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0115635-012
 Misc. Info.: LG 1
 Operator ID: mec29284 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub73
 Method: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-Jun-2024 13:25:11 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1676

First Level Reviewer: UKEK

Date: 04-Jun-2024 13:25:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.040	2.027	0.013	26	10863	1.00	0.8289	
7 Chloromethane	50	2.245	2.229	0.016	36	12480	1.00	1.09	
8 Vinyl chloride	62	2.354	2.354	0.000	30	10779	1.00	0.9229	
9 Butadiene	39	2.386	2.377	0.009	84	10499	1.00	0.8962	M
11 Bromomethane	94	2.730	2.720	0.010	38	9385	1.00	1.19	M
12 Chloroethane	64	2.823	2.800	0.023	16	5303	1.00	0.9230	
13 Dichlorofluoromethane	67	3.079	3.073	0.006	95	16373	1.00	1.01	
14 Trichlorofluoromethane	101	3.150	3.137	0.013	31	10917	1.00	0.8324	
15 Pentane	43	3.166	3.160	0.006	55	8700	1.00	0.8812	M
17 Ethanol	45	3.343	3.285	0.058	7	6613	62.5	71.2	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.503	3.494	0.009	0	8637	1.00	1.04	
19 Acrolein	56	3.577	3.574	0.003	66	20743	10.0	10.1	M
21 1,1-Dichloroethene	96	3.724	3.728	-0.004	12	5209	1.00	0.8926	
20 Acetone	58	3.779	3.750	0.029	40	1684	2.00	1.61	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.756	3.757	-0.001	1	5644	1.00	0.8082	
25 Iodomethane	142	3.933	3.930	0.003	36	10283	1.00	0.9222	
23 Isopropyl alcohol	45	3.978	3.930	0.048	1	4742	5.00	7.05	
26 Carbon disulfide	76	4.077	4.068	0.009	18	16140	1.00	0.8346	
28 Methyl acetate	43	4.193	4.193	0.000	38	6592	1.00	1.09	M
27 3-Chloro-1-propene	41	4.231	4.216	0.015	59	7550	1.00	0.9758	
30 Methylene Chloride	84	4.430	4.424	0.006	17	6722	1.00	1.07	
* 32 t-Butyl alcohol-d10 (IS)	65	4.511	4.453	0.058	31	325748	250.0	250.0	
33 2-Methyl-2-propanol	59	4.623	4.575	0.048	30	7941	5.00	5.77	M
34 Acrylonitrile	53	4.783	4.777	0.006	45	10979	2.50	3.07	
36 Methyl tert-butyl ether	73	4.828	4.832	-0.004	72	18285	1.00	0.9894	
35 trans-1,2-Dichloroethene	96	4.828	4.835	-0.007	25	4765	1.00	0.9065	
37 Hexane	57	5.287	5.265	0.022	35	7008	1.00	0.9438	
38 1,1-Dichloroethane	63	5.528	5.509	0.019	90	8383	1.00	0.9294	
40 Isopropyl ether	45	5.579	5.563	0.016	71	17179	1.00	1.03	
41 2-Chloro-1,3-butadiene	53	5.621	5.615	0.006	38	7511	1.00	0.9020	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Tert-butyl ethyl ether	59	6.102	6.099	0.003	67	15965	1.00	0.9431	
S 80 1,2-Dichloroethene, Total	100				0			1.84	
44 2-Butanone (MEK)	43	6.308	6.324	-0.016	44	10997	2.00	2.32	M
43 cis-1,2-Dichloroethene	96	6.349	6.343	0.006	26	5487	1.00	0.9340	
45 2,2-Dichloropropane	77	6.375	6.366	0.009	49	9206	1.00	0.9108	
47 Propionitrile	54	6.458	6.417	0.041	17	8487	5.00	5.06	
48 Methyl acrylate	55	6.458	6.443	0.015	26	9016	1.00	1.04	
49 Methacrylonitrile	67	6.635	6.635	0.000	70	10276	2.50	2.91	
50 Chlorobromomethane	128	6.677	6.670	0.007	23	2639	1.00	0.8848	M
51 Tetrahydrofuran	71	6.705	6.690	0.015	64	6942	5.00	4.54	
52 Chloroform	83	6.831	6.831	0.000	93	26698	1.00	1.00	
\$ 54 Dibromofluoromethane (Surr)	113	7.039	7.043	-0.004	93	242135	50.0	51.2	
55 1,1,1-Trichloroethane	97	7.058	7.052	0.006	43	8262	1.00	0.8327	
56 Cyclohexane	56	7.155	7.149	0.006	58	10186	1.00	0.8890	
58 Carbon tetrachloride	117	7.261	7.261	0.000	78	6572	1.00	0.7772	
57 1,1-Dichloropropene	75	7.270	7.264	0.006	85	6601	1.00	0.8505	
59 Isobutyl alcohol	41	7.427	7.428	-0.001	46	9532	12.5	20.6	M
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.501	7.505	-0.004	69	59928	50.0	50.5	
61 Benzene	78	7.533	7.530	0.003	93	19555	1.00	0.8964	
62 1,2-Dichloroethane	62	7.610	7.604	0.006	28	7088	1.00	0.9743	
64 Tert-amyl methyl ether	73	7.729	7.717	0.013	95	16037	1.00	0.9250	
* 65 Fluorobenzene (IS)	96	7.938	7.935	0.003	99	950004	50.0	50.0	
66 n-Heptane	43	7.947	7.938	0.009	36	6477	1.00	0.9787	M
67 n-Butanol	56	8.304	8.301	0.003	24	5880	12.5	15.3	
68 Trichloroethene	95	8.416	8.406	0.010	92	5528	1.00	0.9489	
69 Ethyl acrylate	55	8.525	8.525	0.000	89	10599	1.00	1.19	
70 Methylcyclohexane	83	8.717	8.714	0.003	79	8280	1.00	0.7606	
72 2-ethoxy-2-methyl butane	87	8.762	8.750	0.012	90	7636	1.00	0.8728	
71 1,2-Dichloropropane	63	8.750	8.753	-0.003	64	5020	1.00	0.9190	
74 Methyl methacrylate	69	8.823	8.827	-0.004	56	5929	1.00	1.15	
75 1,4-Dioxane	88	8.881	8.833	0.048	32	847	12.5	9.08	M
73 Dibromomethane	93	8.855	8.859	-0.004	61	3568	1.00	0.9238	
77 Dichlorobromomethane	83	9.090	9.090	0.000	96	6296	1.00	0.9352	
78 2-Nitropropane	41	9.375	9.369	0.006	91	12969	5.00	4.60	
79 2-Chloroethyl vinyl ether	63	9.439	9.443	-0.004	16	3673	1.00	0.9507	
81 cis-1,3-Dichloropropene	75	9.632	9.623	0.009	90	7354	1.00	0.8890	
83 4-Methyl-2-pentanone (MIBK)	43	9.799	9.796	0.003	96	17600	2.00	1.94	
\$ 84 Toluene-d8 (Surr)	98	9.921	9.921	0.000	93	954397	50.0	50.4	
85 Toluene	92	9.991	9.995	-0.004	98	12146	1.00	0.9039	
S 162 1,3-Dichloropropene, Total	100				0			1.85	
86 trans-1,3-Dichloropropene	75	10.255	10.245	0.010	90	6916	1.00	0.9600	
87 Ethyl methacrylate	69	10.303	10.306	-0.003	92	8697	1.00	1.02	
88 1,1,2-Trichloroethane	97	10.450	10.447	0.003	90	4609	1.00	0.9723	
90 Tetrachloroethene	166	10.530	10.528	0.002	92	5196	1.00	0.8773	
91 1,3-Dichloropropane	76	10.614	10.611	0.003	95	7364	1.00	0.9647	
94 2-Hexanone	43	10.662	10.659	0.003	96	13056	2.00	2.20	M
96 Chlorodibromomethane	129	10.823	10.816	0.006	91	4531	1.00	0.8861	
98 Ethylene Dibromide	107	10.925	10.929	-0.004	95	4656	1.00	0.9281	
S 178 Xylenes, Total	106				0			2.57	
* 101 Chlorobenzene-d5 (IS)	117	11.352	11.352	0.000	86	691781	50.0	50.0	
103 1-Chlorohexane	91	11.358	11.359	-0.001	40	7500	1.00	1.01	
102 Chlorobenzene	112	11.381	11.378	0.003	60	12727	1.00	0.8846	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 1,1,1,2-Tetrachloroethane	131	11.464	11.458	0.006	54	5114	1.00	0.8739	
105 Ethylbenzene	91	11.464	11.461	0.003	98	23507	1.00	0.8870	
106 m-Xylene & p-Xylene	106	11.580	11.574	0.006	98	18426	2.00	1.76	
107 n-Butyl acrylate	55	11.846	11.846	0.000	97	12249	1.00	1.04	
108 o-Xylene	106	11.897	11.901	-0.004	98	9025	1.00	0.8152	
109 Styrene	104	11.914	11.917	-0.003	87	14626	1.00	0.8978	
110 Bromoform	173	12.080	12.074	0.006	92	3752	1.00	0.9657	
111 Isopropylbenzene	105	12.202	12.199	0.003	96	23740	1.00	0.8619	
113 Cyclohexanone	55	12.289	12.286	0.003	91	18021	50.0	46.5	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.344	12.344	0.000	90	353942	50.0	51.5	
116 1,1,2,2-Tetrachloroethane	83	12.449	12.443	0.006	92	9824	1.00	1.03	
115 Bromobenzene	156	12.459	12.462	-0.003	96	6106	1.00	0.9127	
119 trans-1,4-Dichloro-2-butene	53	12.472	12.469	0.003	79	6967	2.50	2.51	
118 1,2,3-Trichloropropane	110	12.494	12.495	-0.001	68	3206	1.00	1.06	
120 N-Propylbenzene	91	12.526	12.527	-0.001	98	27811	1.00	0.8417	
121 2-Chlorotoluene	126	12.607	12.604	0.003	97	6783	1.00	0.9497	
122 1,3,5-Trimethylbenzene	105	12.664	12.661	0.003	94	20253	1.00	0.8061	
123 4-Chlorotoluene	126	12.697	12.697	-0.001	95	6126	1.00	0.9106	
125 tert-Butylbenzene	134	12.902	12.905	-0.003	92	3642	1.00	0.7415	
127 1,2,4-Trimethylbenzene	105	12.944	12.947	-0.003	97	21878	1.00	0.8509	
128 sec-Butylbenzene	105	13.069	13.066	0.003	94	22799	1.00	0.7456	
131 1,3-Dichlorobenzene	146	13.165	13.165	0.000	80	11791	1.00	0.9026	
132 4-Isopropyltoluene	119	13.171	13.172	-0.001	97	21479	1.00	0.7876	
* 133 1,4-Dichlorobenzene-d4	152	13.223	13.220	0.003	95	434044	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.242	13.239	0.003	88	12565	1.00	0.9453	
148 1,2,3-Trimethylbenzene	105	13.248	13.252	-0.004	93	22560	1.00	0.8308	
170 Benzyl chloride	91	13.319	13.316	0.003	97	17271	1.00	0.9014	
171 1,3-Diethylbenzene	119	13.374	13.371	0.003	94	13131	1.00	0.8107	
172 p-Diethylbenzene	119	13.447	13.444	0.003	95	13024	1.00	0.7864	
173 n-Butylbenzene	92	13.463	13.467	-0.004	97	9705	1.00	0.7595	
174 1,2-Dichlorobenzene	146	13.502	13.502	0.000	98	13338	1.00	0.9545	
175 o-diethylbenzene	119	13.518	13.518	0.000	95	10463	1.00	0.7781	
176 1,2-Dibromo-3-Chloropropane	75	14.041	14.044	-0.003	85	3242	1.00	1.11	
177 1,3,5-Trichlorobenzene	180	14.169	14.166	0.003	96	8890	1.00	0.8912	
179 1,2,4-Trichlorobenzene	180	14.596	14.590	0.006	92	9238	1.00	0.9213	
181 2-Ethylhexyl acrylate	55	14.648	14.645	0.003	83	10211	1.00	1.04	
180 Hexachlorobutadiene	225	14.673	14.670	0.003	77	2583	1.00	0.7498	
182 Naphthalene	128	14.776	14.776	0.000	96	37930	1.00	0.9548	
183 1,2,3-Trichlorobenzene	180	14.923	14.921	0.003	93	9390	1.00	0.9289	
184 2-Methylnaphthalene	142	15.568	15.569	-0.001	91	18858	1.00	0.8595	
S 205 Total Diethylbenzene	1				0			2.38	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_4ppbEtOH_00651

Amount Added: 12.50

Units: mL

MSV_Cent_ISSS_00026

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Jun-2024 13:25:12

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X11.D

Injection Date: 03-Jun-2024 21:00:30

Instrument ID: 9137

Operator ID: mec29284

Lims ID: IC v1

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

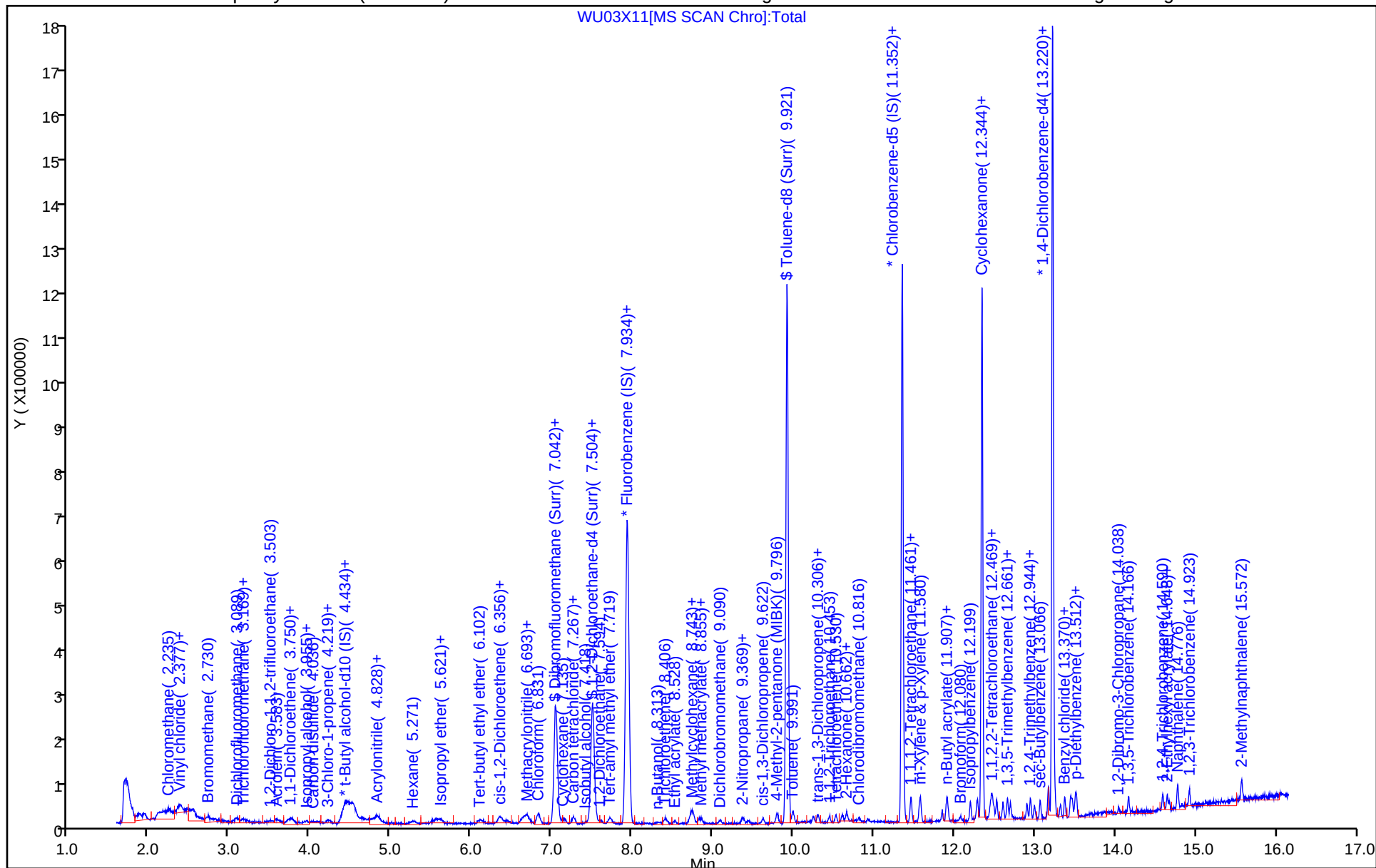
ALS Bottle#: 11

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

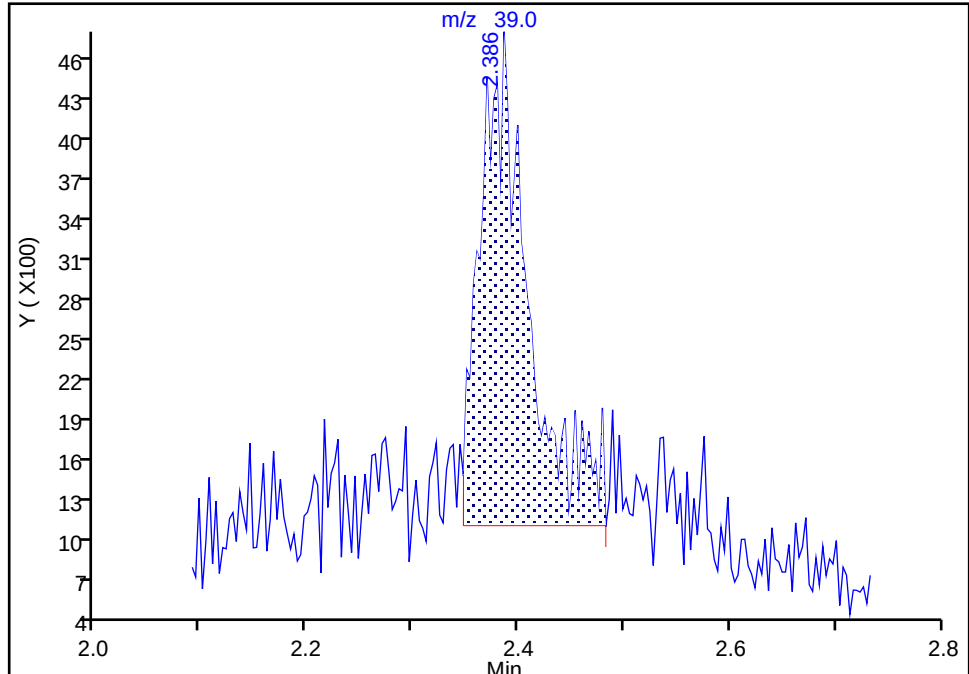
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X11.D
Injection Date: 03-Jun-2024 21:00:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: mec29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

9 Butadiene, CAS: 106-99-0

Signal: 1

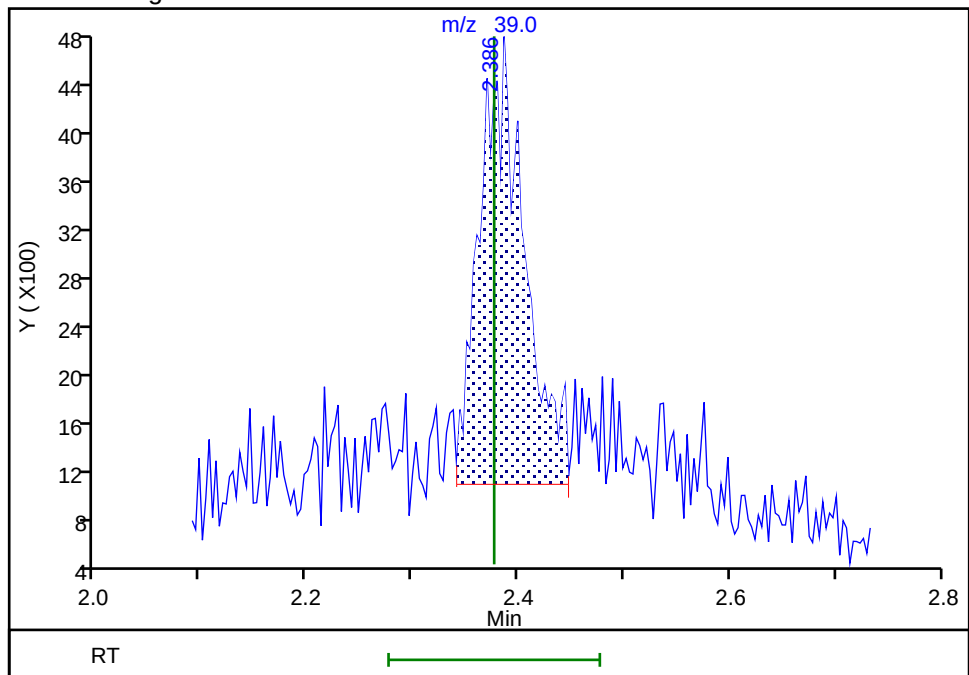
RT: 2.39
Area: 11358
Amount: 1.001569
Amount Units: ug/l

Processing Integration Results



RT: 2.39
Area: 10499
Amount: 0.896212
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:50:50 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

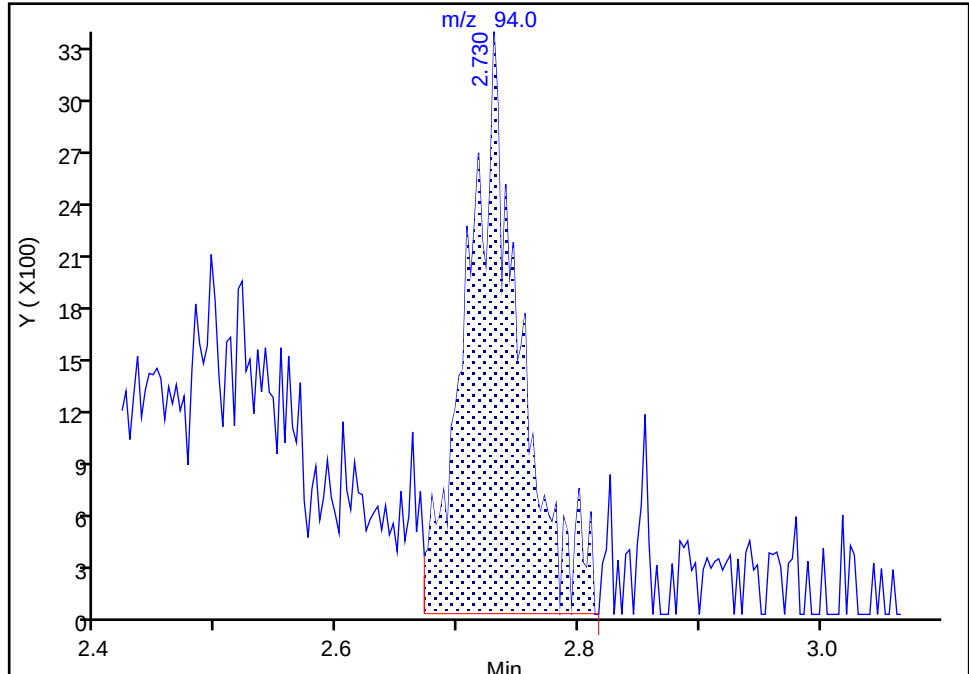
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X11.D
Injection Date: 03-Jun-2024 21:00:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: mec29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

11 Bromomethane, CAS: 74-83-9

Signal: 1

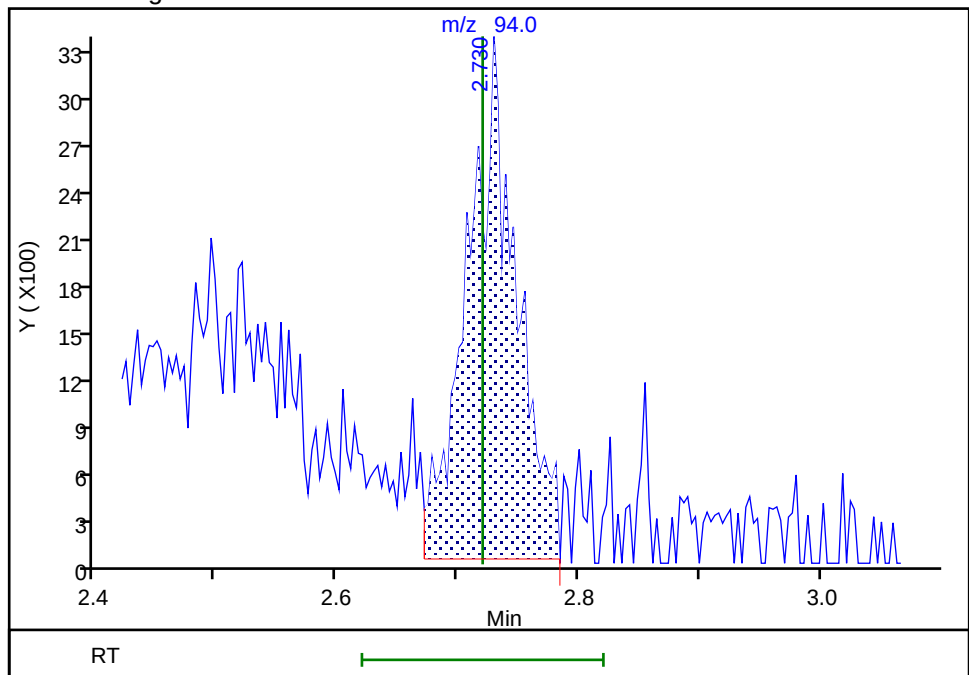
RT: 2.73
Area: 10184
Amount: 0.972658
Amount Units: ug/l

Processing Integration Results



RT: 2.73
Area: 9385
Amount: 1.190867
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 04-Jun-2024 00:08:19 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

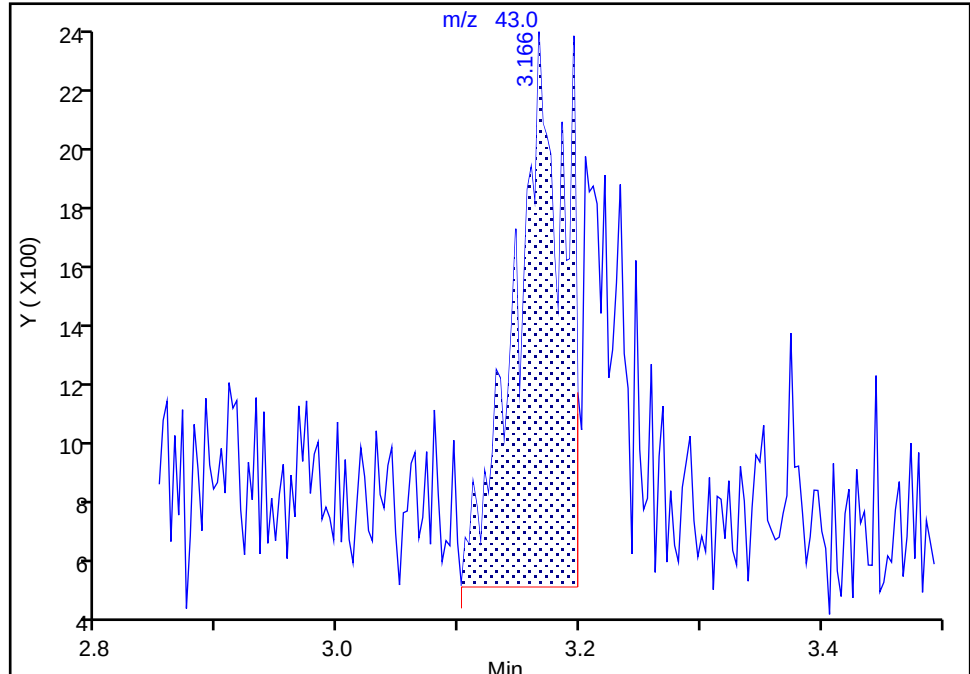
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Injection Date: 03-Jun-2024 21:00:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: mec29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

15 Pentane, CAS: 109-66-0

Signal: 1

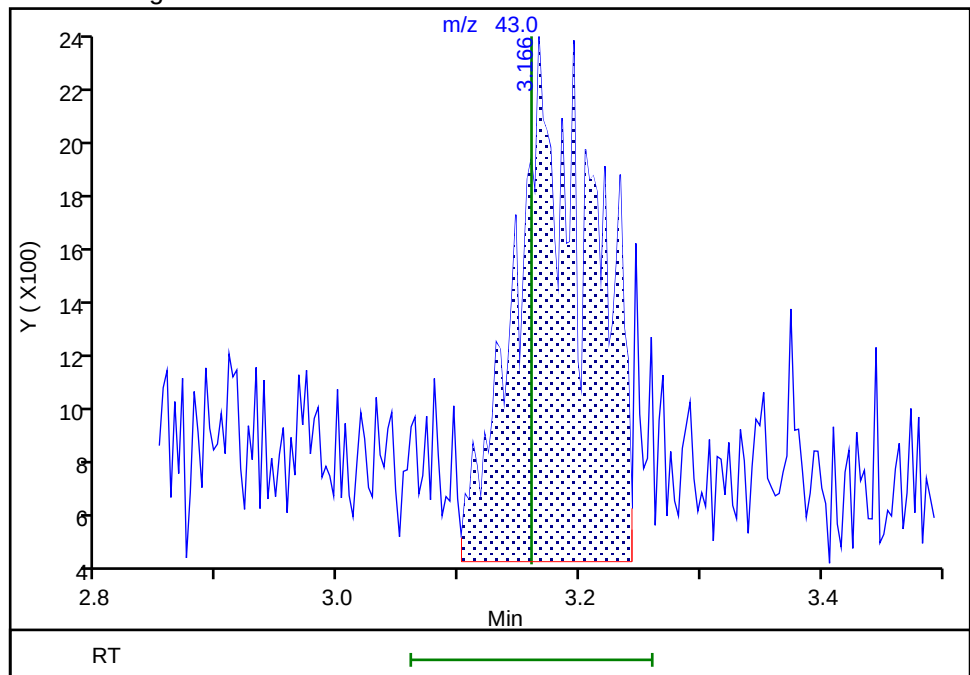
RT: 3.17
Area: 5279
Amount: 1.362613
Amount Units: ug/l

Processing Integration Results



RT: 3.17
Area: 8700
Amount: 0.881162
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:51:08 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

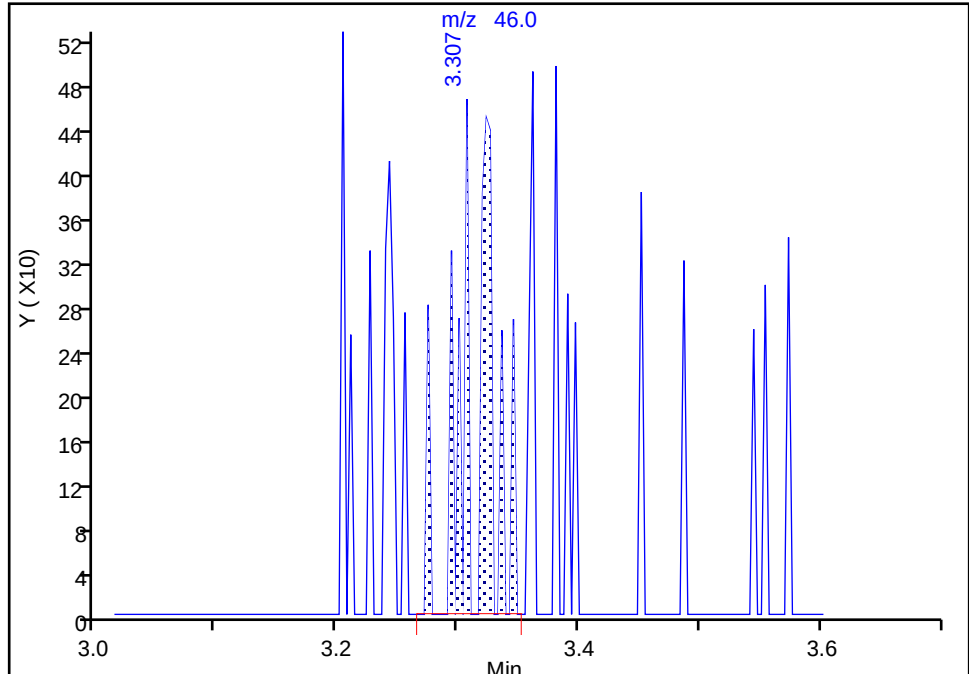
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X11.D
Injection Date: 03-Jun-2024 21:00:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: mec29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

17 Ethanol, CAS: 64-17-5

Signal: 2

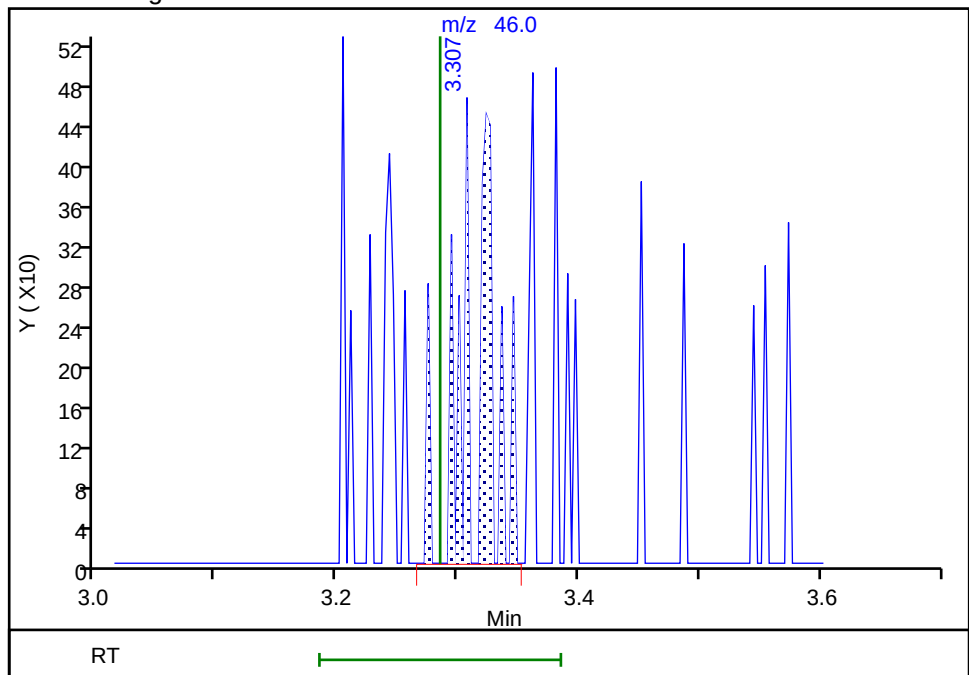
RT: 3.31
Area: 604
Amount: 69.844801
Amount Units: ug/l

Processing Integration Results



RT: 3.31
Area: 604
Amount: 71.239587
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 04-Jun-2024 13:23:43 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

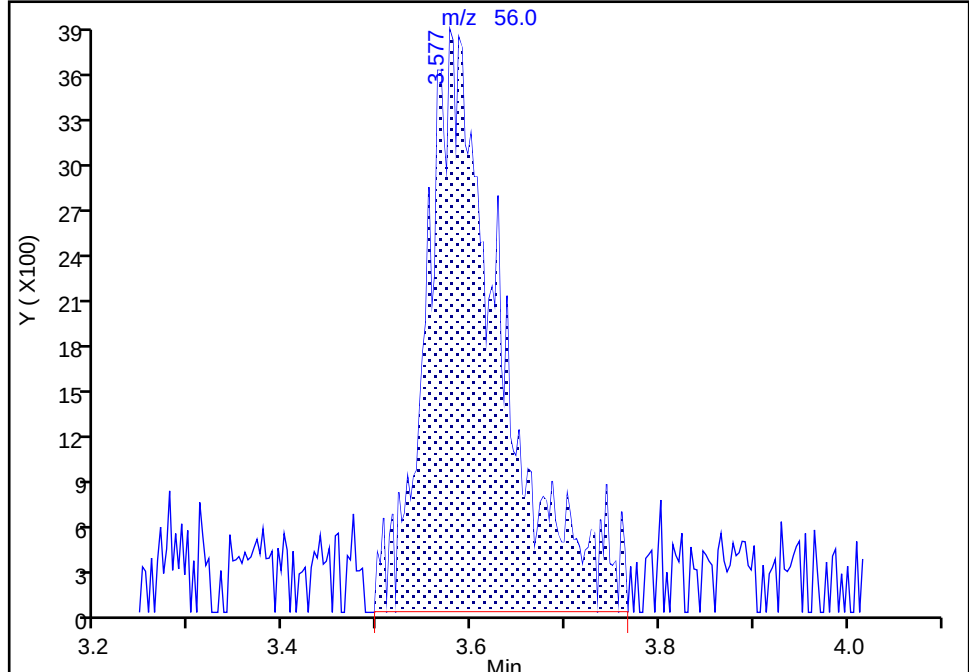
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X11.D
Injection Date: 03-Jun-2024 21:00:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: mec29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

19 Acrolein, CAS: 107-02-8

Signal: 1

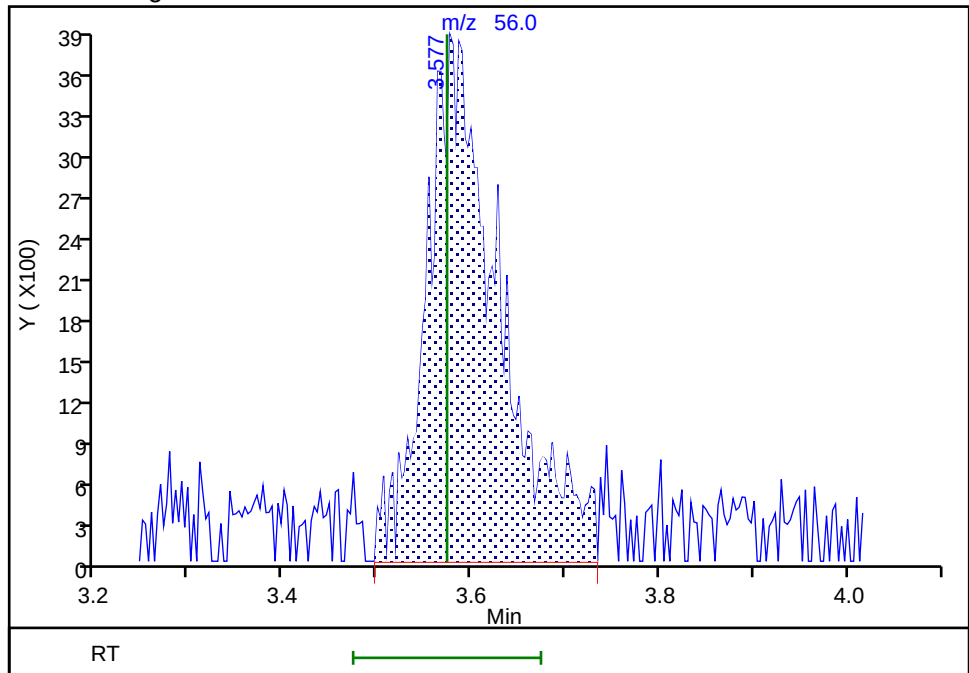
RT: 3.58
Area: 21493
Amount: 10.341157
Amount Units: ug/l

Processing Integration Results



RT: 3.58
Area: 20743
Amount: 10.118706
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 04-Jun-2024 00:23:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

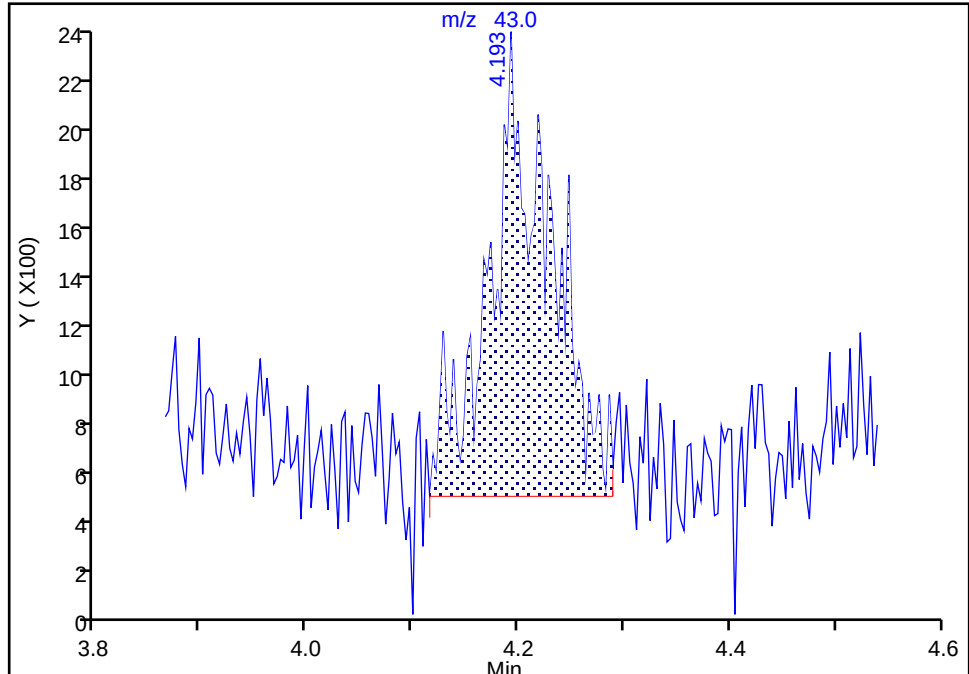
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X11.D
Injection Date: 03-Jun-2024 21:00:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: mec29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

28 Methyl acetate, CAS: 79-20-9

Signal: 1

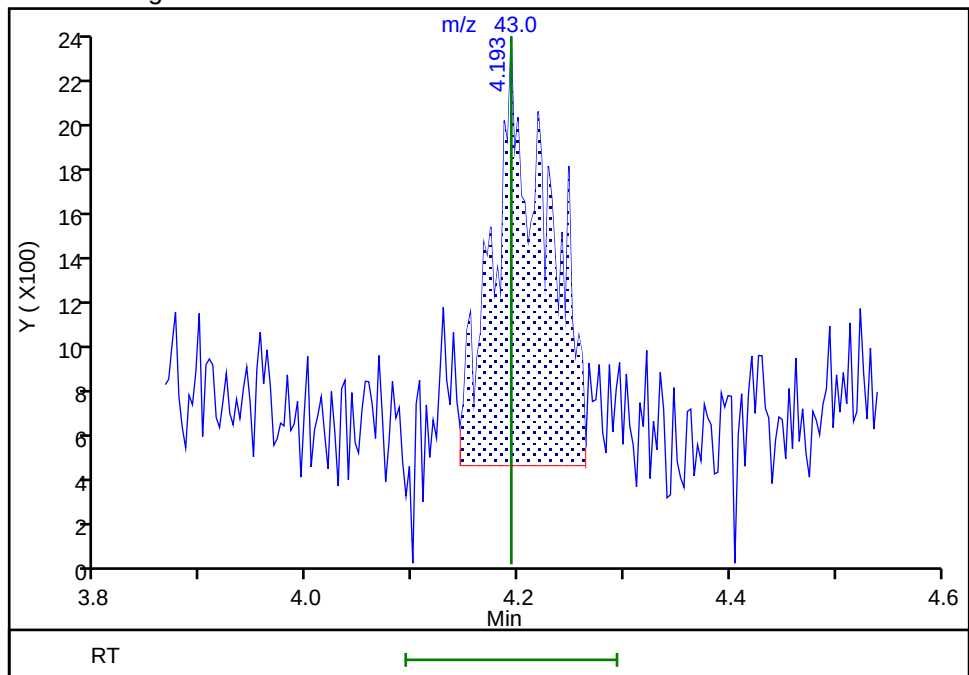
RT: 4.19
Area: 7229
Amount: 1.554211
Amount Units: ug/l

Processing Integration Results



RT: 4.19
Area: 6592
Amount: 1.087553
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:51:33 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

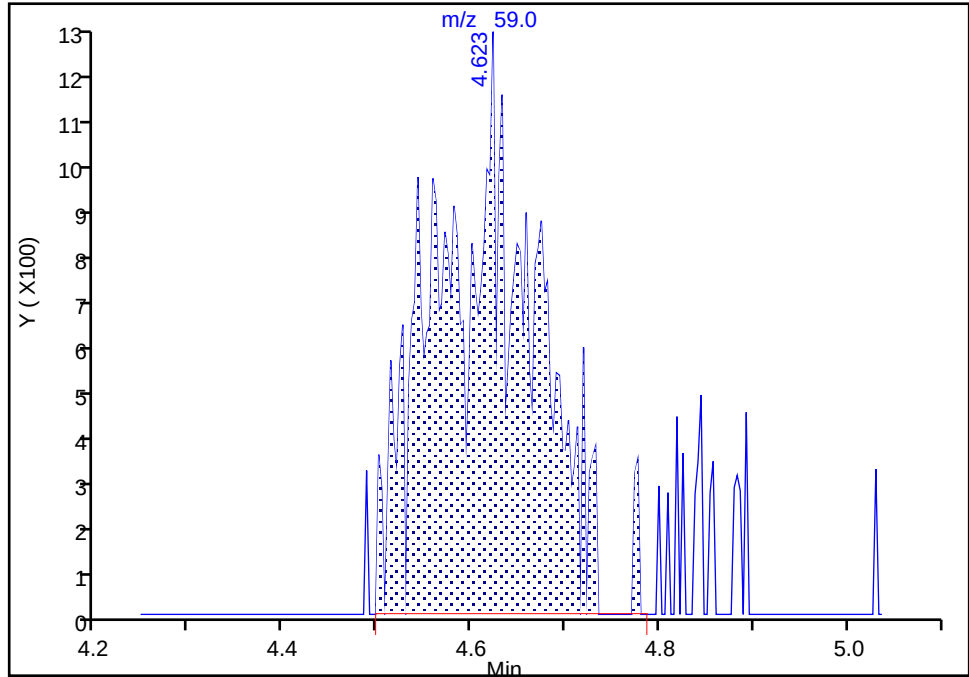
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Injection Date: 03-Jun-2024 21:00:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: mec29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

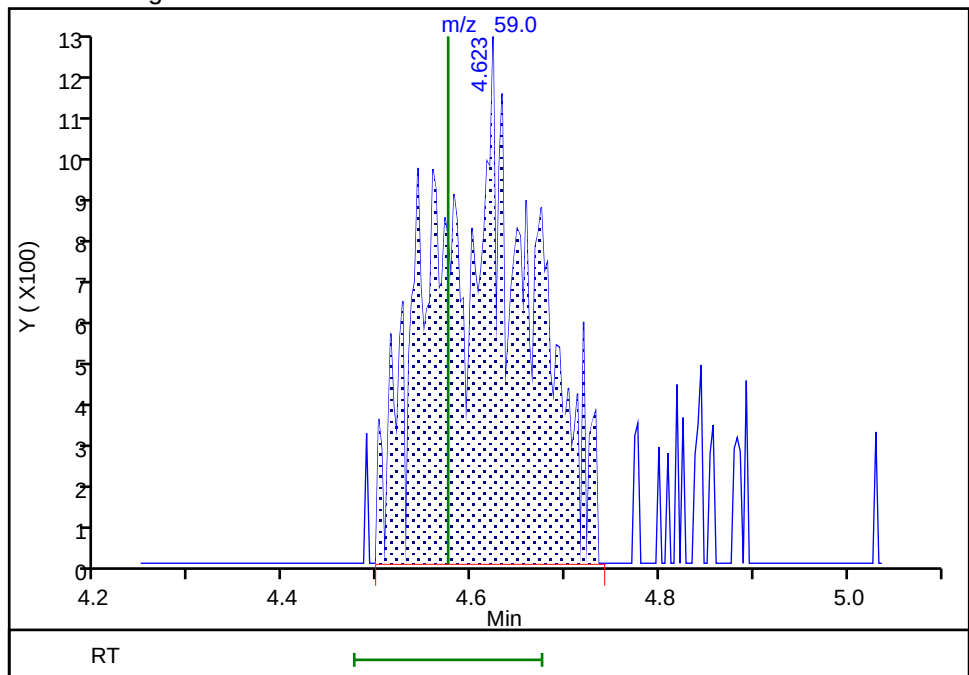
RT: 4.62
Area: 8060
Amount: 5.431722
Amount Units: ug/l

Processing Integration Results



RT: 4.62
Area: 7941
Amount: 5.770061
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:51:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

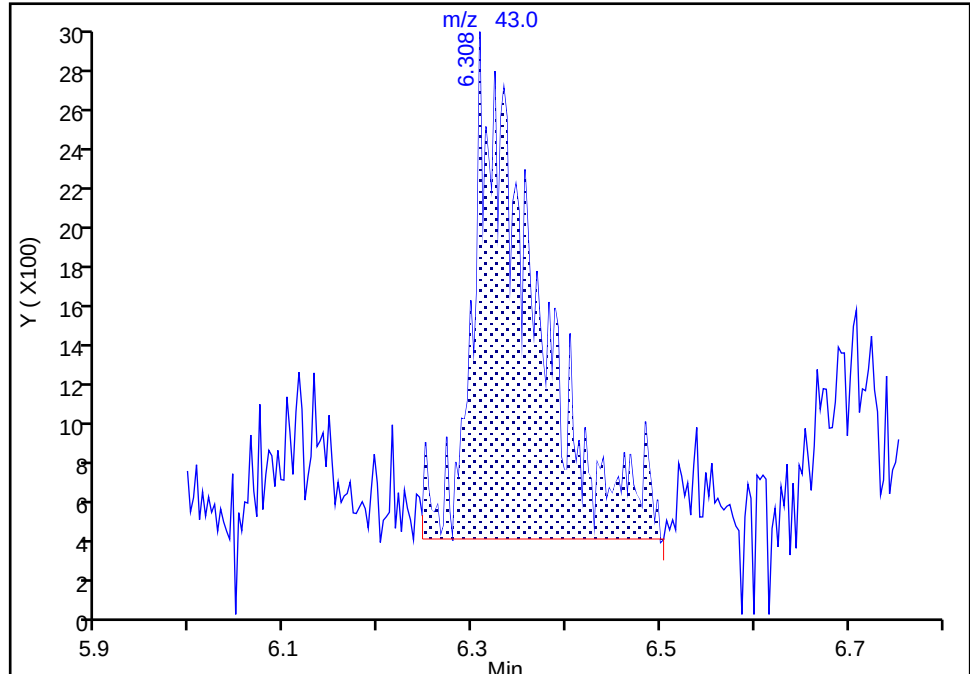
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X11.D
Injection Date: 03-Jun-2024 21:00:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: mec29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

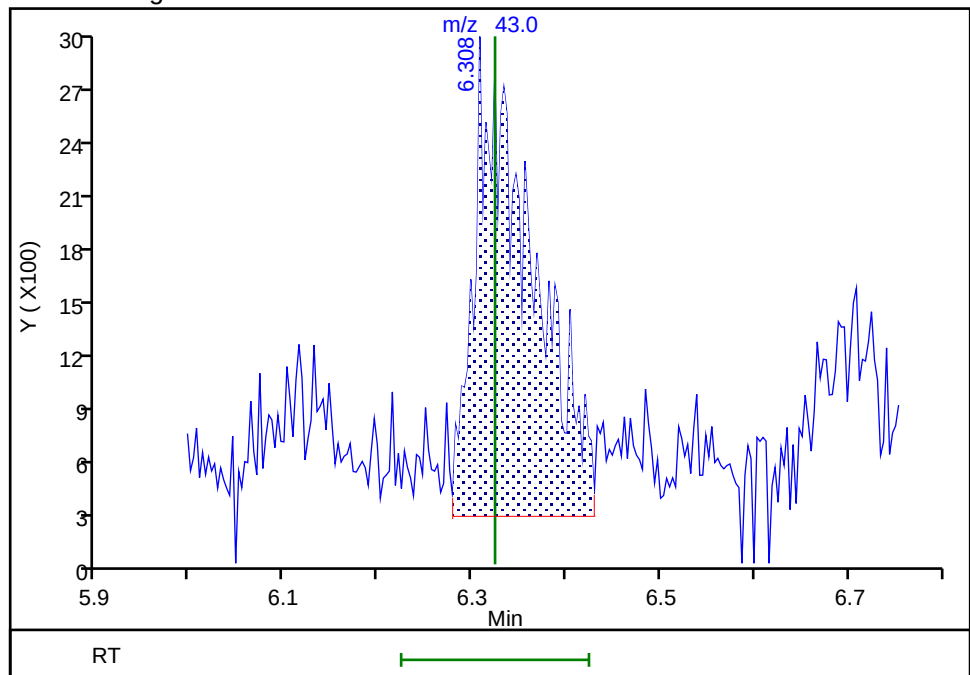
RT: 6.31
Area: 11527
Amount: 2.733931
Amount Units: ug/l

Processing Integration Results



RT: 6.31
Area: 10997
Amount: 2.321208
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:51:57 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

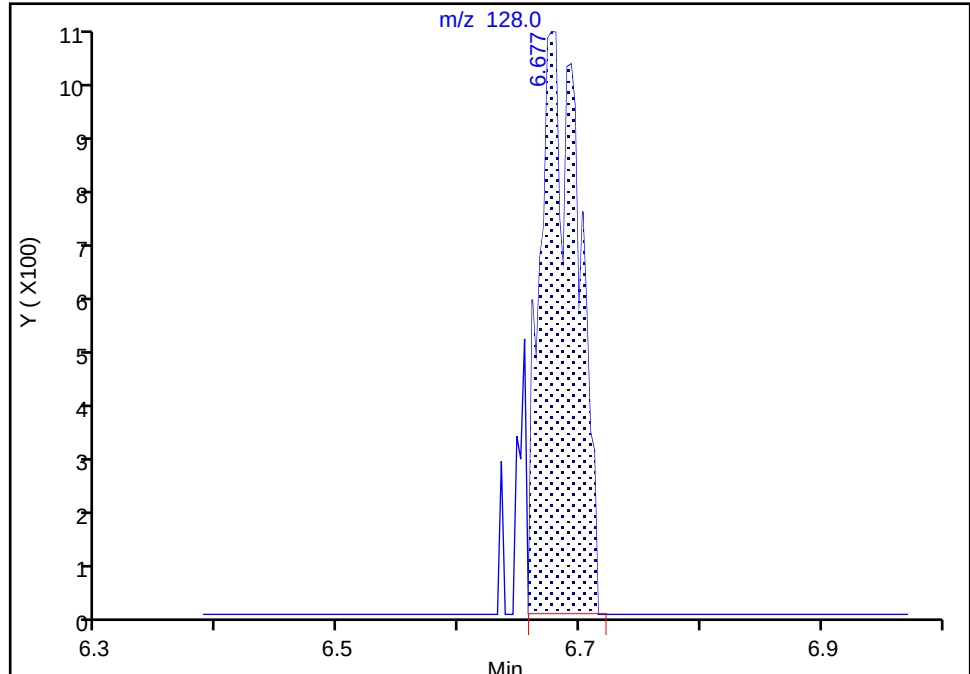
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Injection Date: 03-Jun-2024 21:00:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: mec29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

50 Chlorobromomethane, CAS: 74-97-5

Signal: 1

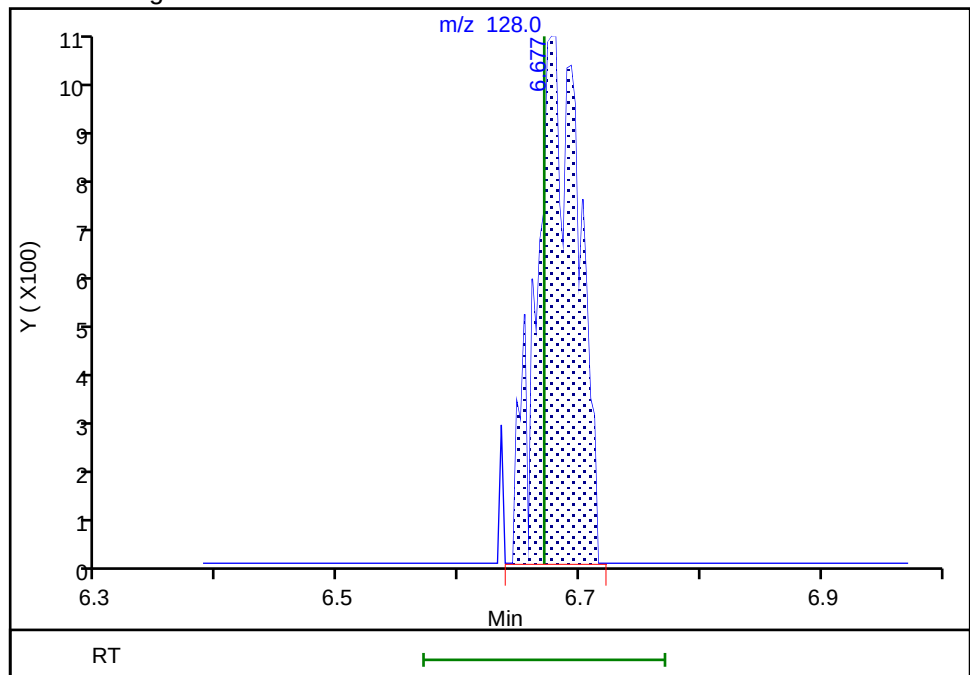
RT: 6.68
Area: 2421
Amount: 2.034688
Amount Units: ug/l

Processing Integration Results



RT: 6.68
Area: 2639
Amount: 0.884757
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:52:04 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

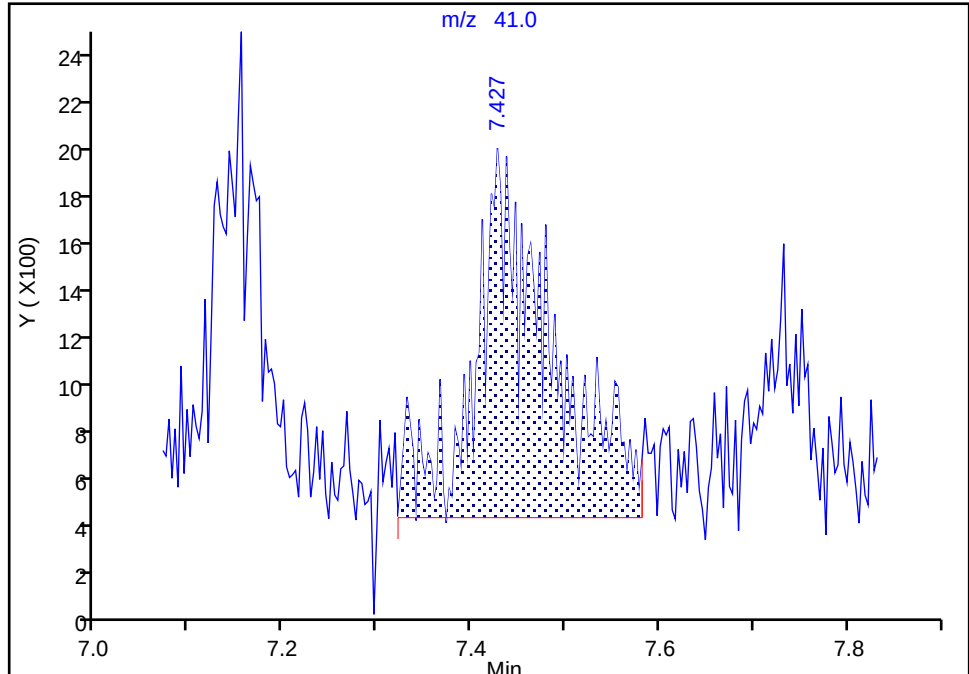
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Injection Date: 03-Jun-2024 21:00:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: mec29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) MS Quad

59 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

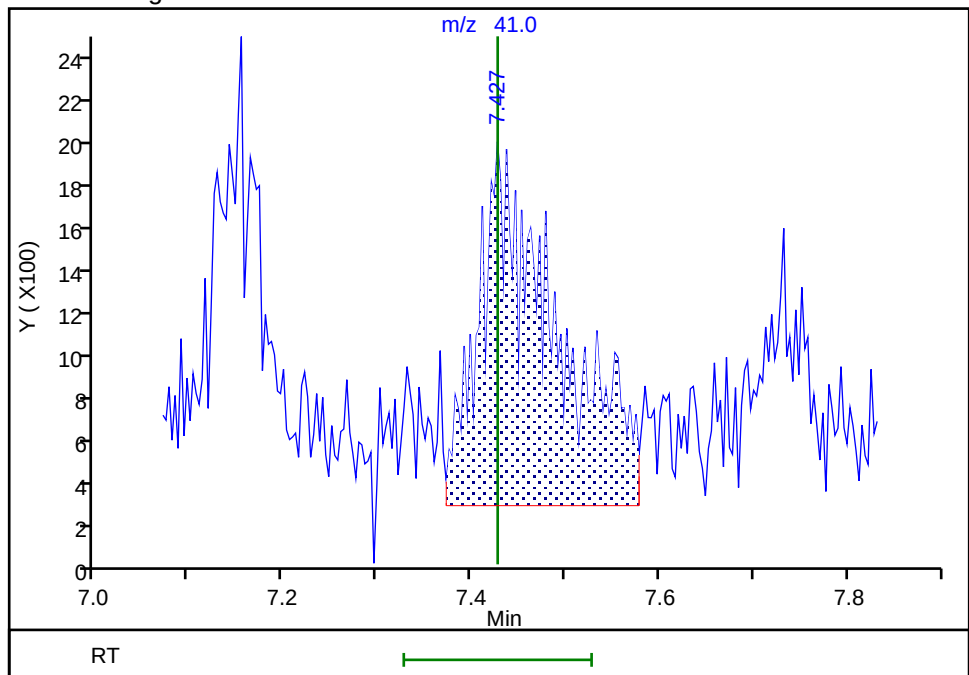
RT: 7.43
Area: 8443
Amount: 30.505006
Amount Units: ug/l

Processing Integration Results



RT: 7.43
Area: 9532
Amount: 20.592682
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:52:20 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

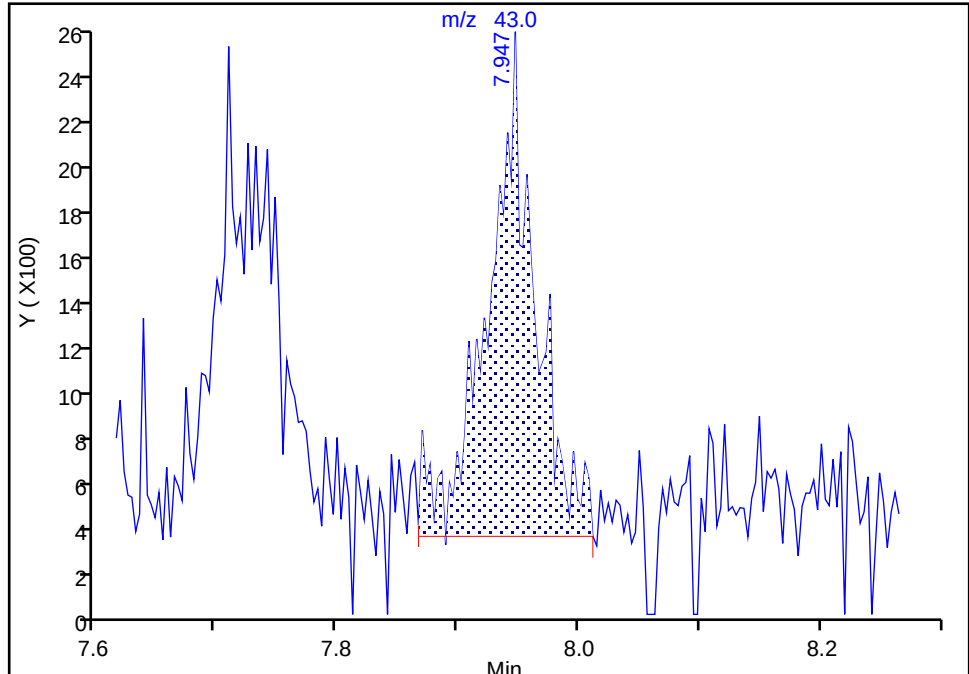
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X11.D
Injection Date: 03-Jun-2024 21:00:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: mec29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

66 n-Heptane, CAS: 142-82-5

Signal: 1

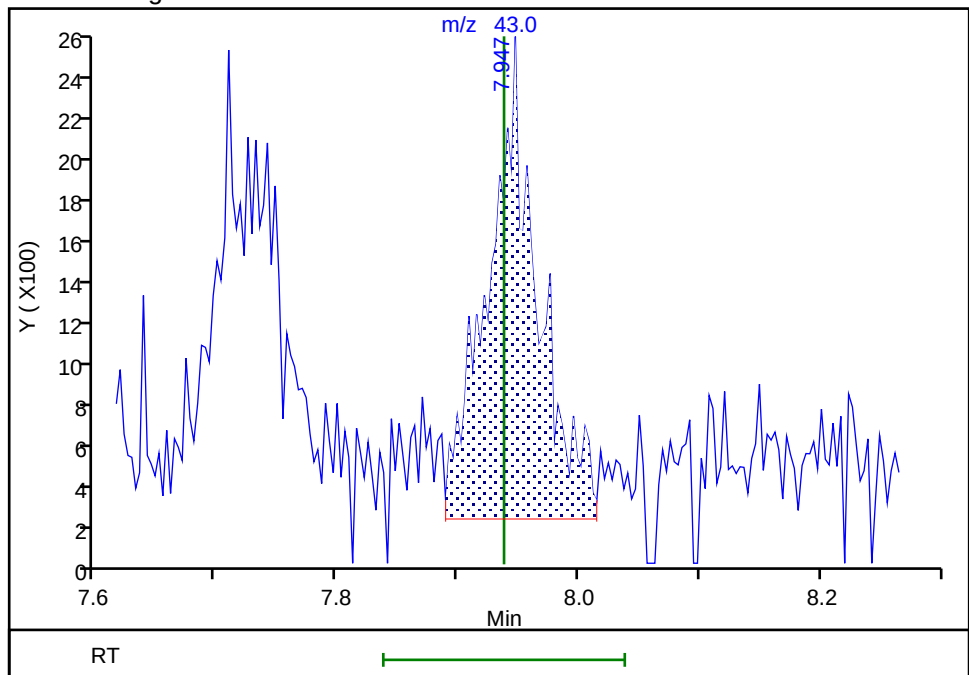
RT: 7.95
Area: 5800
Amount: 2.194626
Amount Units: ug/l

Processing Integration Results



RT: 7.95
Area: 6477
Amount: 0.978705
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:52:39 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

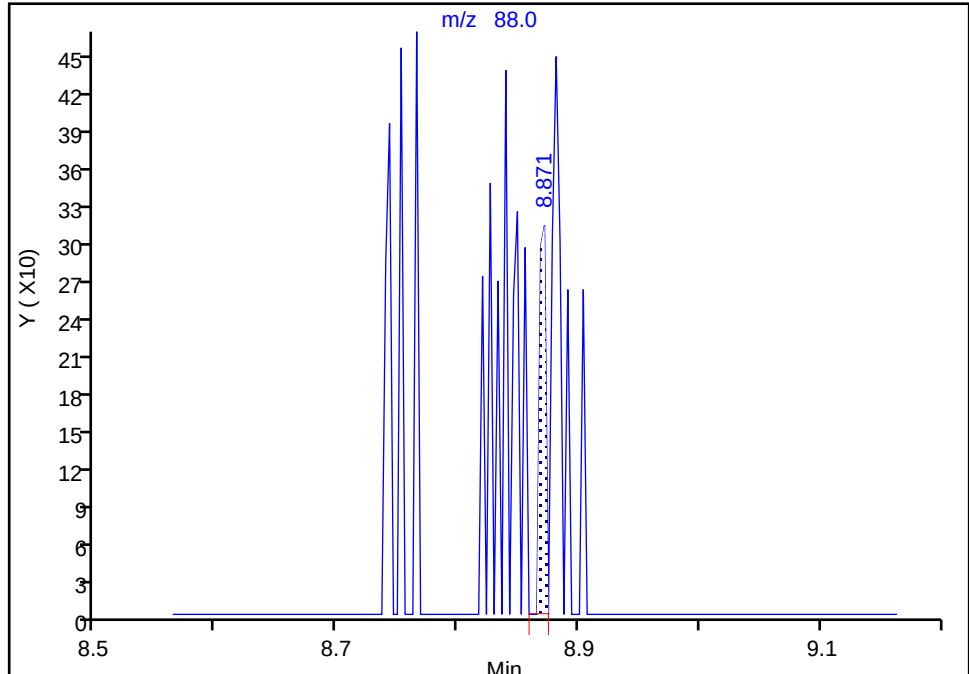
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Injection Date: 03-Jun-2024 21:00:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: mec29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

75 1,4-Dioxane, CAS: 123-91-1

Signal: 1

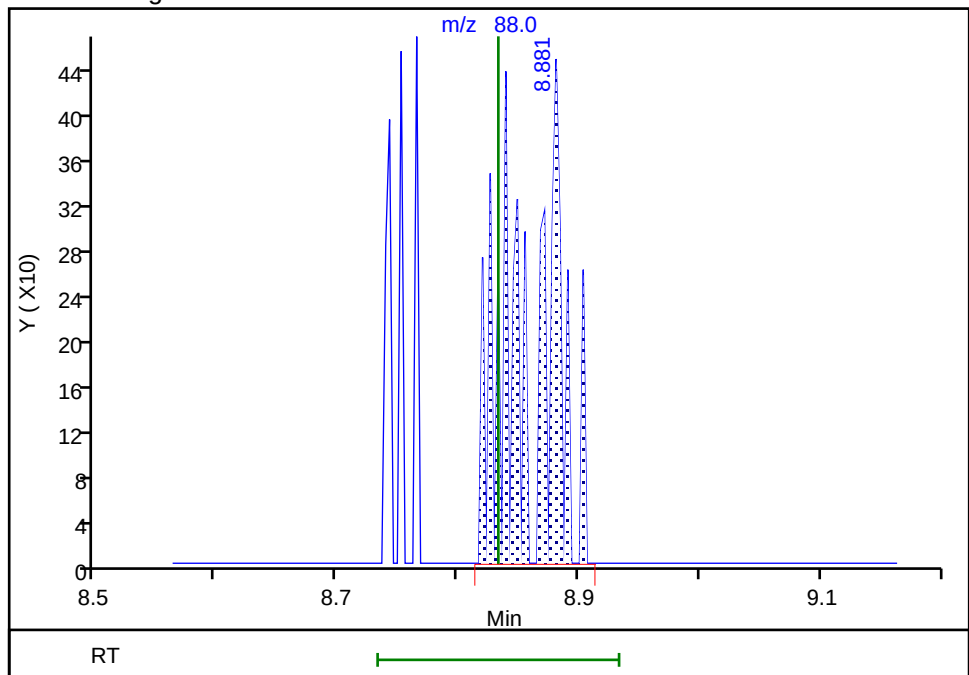
RT: 8.87
Area: 118
Amount: 0.374987
Amount Units: ug/l

Processing Integration Results



RT: 8.88
Area: 847
Amount: 9.078283
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:52:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

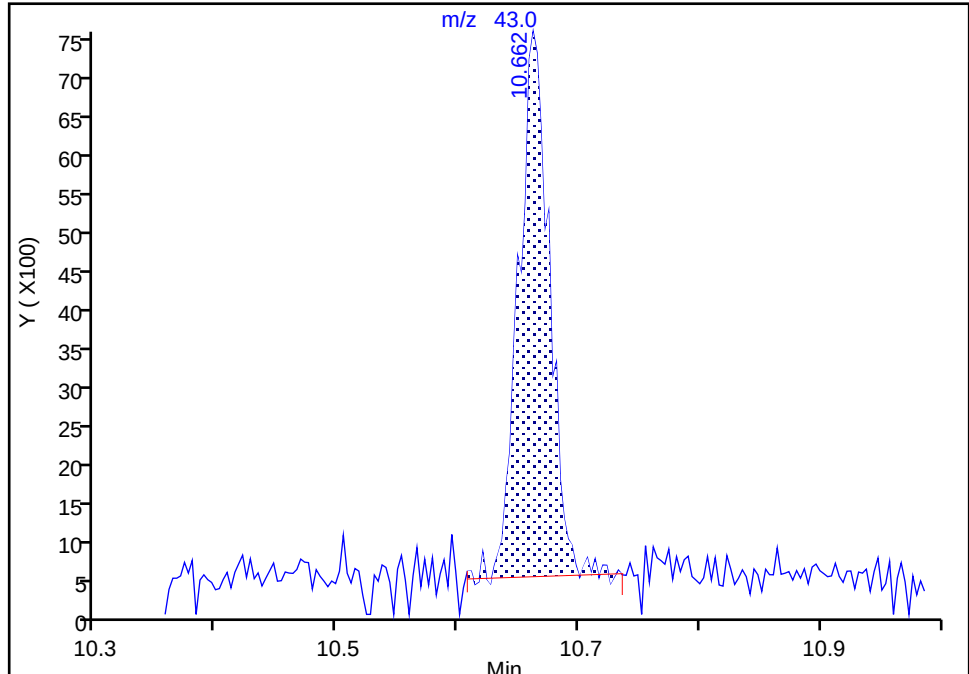
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X11.D
Injection Date: 03-Jun-2024 21:00:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: mec29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

94 2-Hexanone, CAS: 591-78-6

Signal: 1

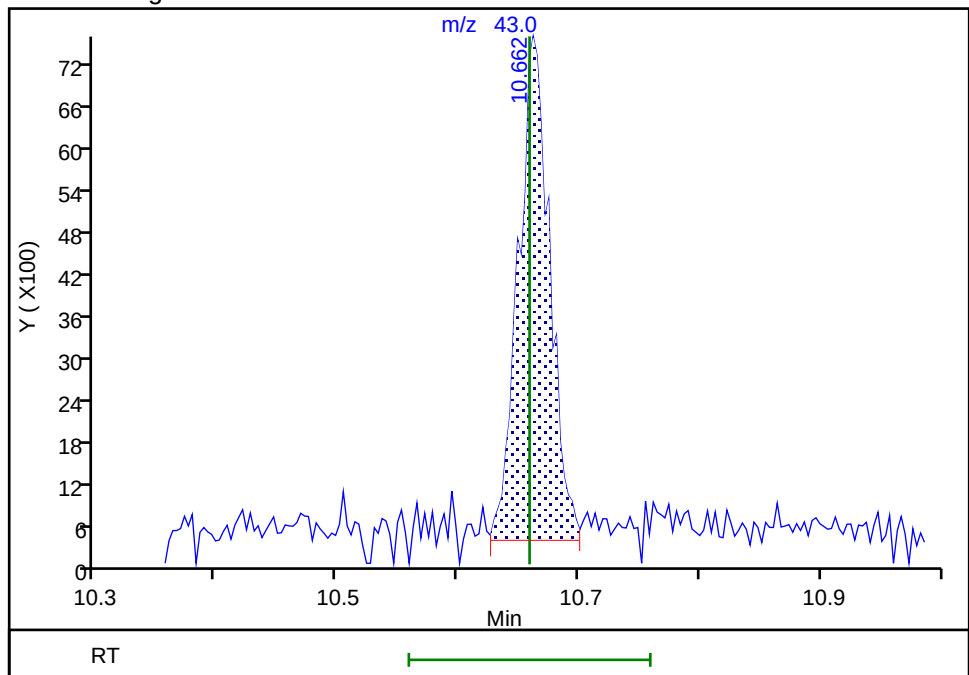
RT: 10.66
Area: 12497
Amount: 2.719846
Amount Units: ug/l

Processing Integration Results



RT: 10.66
Area: 13056
Amount: 2.197968
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:53:06 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X12.D
 Lims ID: IC v4
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 03-Jun-2024 21:22:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0115635-013
 Misc. Info.: LG 4
 Operator ID: mec29284 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub73
 Method: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-Jun-2024 13:25:28 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1676

First Level Reviewer: K4WN

Date: 03-Jun-2024 23:56:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.021	2.027	-0.006	99	58753	4.00	4.38	
7 Chloromethane	50	2.229	2.229	0.000	99	51295	4.00	4.35	
8 Vinyl chloride	62	2.348	2.354	-0.006	98	49767	4.00	4.16	
9 Butadiene	39	2.374	2.377	-0.003	93	53043	4.00	4.42	
11 Bromomethane	94	2.711	2.720	-0.009	90	34926	4.00	4.32	
12 Chloroethane	64	2.797	2.800	-0.003	99	25974	4.00	4.41	
13 Dichlorofluoromethane	67	3.067	3.073	-0.006	97	70913	4.00	4.26	
14 Trichlorofluoromethane	101	3.144	3.137	0.007	93	56963	4.00	4.24	
15 Pentane	43	3.144	3.160	-0.016	93	40914	4.00	4.04	
17 Ethanol	45	3.259	3.285	-0.026	23	21444	250.0	272.2	M
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.487	3.494	-0.007	68	36938	4.00	4.33	
19 Acrolein	56	3.558	3.574	-0.016	98	72558	40.1	41.7	M
21 1,1-Dichloroethene	96	3.712	3.728	-0.016	95	24538	4.00	4.10	
20 Acetone	58	3.757	3.750	0.007	43	7487	8.00	8.42	M
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.750	3.757	-0.007	89	29091	4.00	4.07	
25 Iodomethane	142	3.933	3.930	0.003	97	45182	4.00	3.95	
23 Isopropyl alcohol	45	3.981	3.930	0.051	44	13231	20.0	23.2	M
26 Carbon disulfide	76	4.055	4.068	-0.013	87	80459	4.00	4.06	
28 Methyl acetate	43	4.190	4.193	-0.003	45	24343	4.00	3.92	M
27 3-Chloro-1-propene	41	4.225	4.216	0.009	92	31252	4.00	3.94	
30 Methylene Chloride	84	4.421	4.424	-0.003	88	25824	4.00	4.02	
* 32 t-Butyl alcohol-d10 (IS)	65	4.466	4.485	-0.019	57	276411	250.0	250.0	
33 2-Methyl-2-propanol	59	4.556	4.575	-0.019	49	22573	20.0	19.3	M
34 Acrylonitrile	53	4.777	4.777	0.000	96	36733	10.0	10.0	
36 Methyl tert-butyl ether	73	4.835	4.832	0.003	87	76667	4.00	4.05	
35 trans-1,2-Dichloroethene	96	4.825	4.835	-0.010	96	21712	4.00	4.03	
37 Hexane	57	5.262	5.265	-0.003	92	31584	4.00	4.15	
38 1,1-Dichloroethane	63	5.509	5.509	0.000	94	36572	4.00	3.96	
40 Isopropyl ether	45	5.573	5.563	0.010	96	67414	4.00	3.94	
41 2-Chloro-1,3-butadiene	53	5.615	5.615	0.000	91	35038	4.00	4.11	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Tert-butyl ethyl ether	59	6.106	6.099	0.007	96	70040	4.00	4.04	
S 80 1,2-Dichloroethene, Total	100				0			8.16	
44 2-Butanone (MEK)	43	6.321	6.324	-0.003	41	43868	8.00	9.04	M
43 cis-1,2-Dichloroethene	96	6.340	6.343	-0.003	81	24868	4.00	4.13	
45 2,2-Dichloropropane	77	6.366	6.366	0.000	85	41528	4.00	4.01	
47 Propionitrile	54	6.420	6.417	0.003	68	28415	20.0	19.9	
48 Methyl acrylate	55	6.439	6.443	-0.004	85	38259	4.00	4.30	
49 Methacrylonitrile	67	6.622	6.635	-0.013	89	35434	10.0	9.80	
50 Chlorobromomethane	128	6.670	6.670	0.000	91	12164	4.00	3.98	
51 Tetrahydrofuran	71	6.686	6.690	-0.004	86	27431	20.0	21.2	
52 Chloroform	83	6.828	6.831	-0.003	94	54785	4.00	3.90	
\$ 54 Dibromofluoromethane (Surr)	113	7.039	7.043	-0.004	93	246315	50.0	50.8	
55 1,1,1-Trichloroethane	97	7.043	7.052	-0.009	89	41524	4.00	4.08	
56 Cyclohexane	56	7.145	7.149	-0.004	90	48144	4.00	4.10	
58 Carbon tetrachloride	117	7.261	7.261	0.000	92	34524	4.00	3.98	
57 1,1-Dichloropropene	75	7.264	7.264	0.000	95	33156	4.00	4.17	
59 Isobutyl alcohol	41	7.437	7.428	0.009	32	22491	50.0	57.3	M
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.495	7.505	-0.010	69	62385	50.0	51.3	
61 Benzene	78	7.534	7.530	0.004	96	89622	4.00	4.01	
62 1,2-Dichloroethane	62	7.604	7.604	0.000	96	29677	4.00	3.98	
64 Tert-amyl methyl ether	73	7.716	7.717	0.000	97	70336	4.00	3.96	
* 65 Fluorobenzene (IS)	96	7.931	7.935	-0.004	99	973474	50.0	50.0	
66 n-Heptane	43	7.941	7.938	0.003	66	27264	4.00	4.02	
67 n-Butanol	56	8.297	8.301	-0.004	26	17514	50.0	53.8	M
68 Trichloroethene	95	8.403	8.406	-0.003	95	23818	4.00	3.99	
69 Ethyl acrylate	55	8.522	8.525	-0.003	98	34988	4.00	3.82	
70 Methylcyclohexane	83	8.711	8.714	-0.003	89	44921	4.00	4.03	
72 2-ethoxy-2-methyl butane	87	8.750	8.750	0.000	93	34887	4.00	3.89	
71 1,2-Dichloropropane	63	8.743	8.753	-0.010	69	21804	4.00	3.90	
74 Methyl methacrylate	69	8.824	8.827	-0.003	89	19480	4.00	3.70	
75 1,4-Dioxane	88	8.843	8.833	0.010	35	3423	50.0	43.2	
73 Dibromomethane	93	8.852	8.859	-0.007	95	15911	4.00	4.02	
77 Dichlorobromomethane	83	9.090	9.090	0.000	96	26285	4.00	3.81	
78 2-Nitropropane	41	9.372	9.369	0.003	100	47008	20.0	19.7	
79 2-Chloroethyl vinyl ether	63	9.433	9.443	-0.010	91	15145	4.00	3.83	
81 cis-1,3-Dichloropropene	75	9.619	9.623	-0.004	94	32070	4.00	3.78	
83 4-Methyl-2-pentanone (MIBK)	43	9.793	9.796	-0.003	98	74845	8.00	8.04	
\$ 84 Toluene-d8 (Surr)	98	9.918	9.921	-0.003	93	989500	50.0	50.5	
85 Toluene	92	9.995	9.995	0.000	98	55758	4.00	4.01	
S 162 1,3-Dichloropropene, Total	100				0			7.61	
86 trans-1,3-Dichloropropene	75	10.242	10.245	-0.003	93	28525	4.00	3.83	
87 Ethyl methacrylate	69	10.303	10.306	-0.003	88	35866	4.00	4.08	
88 1,1,2-Trichloroethane	97	10.444	10.447	-0.003	90	19751	4.00	4.03	
90 Tetrachloroethene	166	10.527	10.528	-0.001	95	24435	4.00	3.99	
91 1,3-Dichloropropane	76	10.605	10.611	-0.007	93	31010	4.00	3.93	
94 2-Hexanone	43	10.662	10.659	0.003	97	47533	8.00	7.73	
96 Chlorodibromomethane	129	10.816	10.816	0.000	90	19484	4.00	3.68	
98 Ethylene Dibromide	107	10.925	10.929	-0.004	95	20751	4.00	4.00	
S 178 Xylenes, Total	106				0			11.9	
* 101 Chlorobenzene-d5 (IS)	117	11.355	11.352	0.003	85	715842	50.0	50.0	
103 1-Chlorohexane	91	11.355	11.359	-0.004	39	31641	4.00	4.12	
102 Chlorobenzene	112	11.378	11.378	0.000	96	59113	4.00	3.97	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 1,1,1,2-Tetrachloroethane	131	11.461	11.458	0.003	45	24342	4.00	4.02	
105 Ethylbenzene	91	11.461	11.461	0.000	98	110628	4.00	4.03	
106 m-Xylene & p-Xylene	106	11.570	11.574	-0.004	98	85660	8.00	7.91	
107 n-Butyl acrylate	55	11.846	11.846	0.000	97	50017	4.00	4.09	
108 o-Xylene	106	11.901	11.901	0.000	97	45676	4.00	3.99	
109 Styrene	104	11.917	11.917	0.000	94	66332	4.00	3.93	
110 Bromoform	173	12.074	12.074	0.000	94	14823	4.00	3.69	
111 Isopropylbenzene	105	12.203	12.199	0.004	95	111615	4.00	3.92	
113 Cyclohexanone	55	12.286	12.286	0.000	92	67305	200.0	204.5	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.344	12.344	0.000	90	359345	50.0	50.5	
116 1,1,2,2-Tetrachloroethane	83	12.446	12.443	0.003	95	36012	4.00	3.67	
115 Bromobenzene	156	12.462	12.462	0.000	95	26596	4.00	3.85	
119 trans-1,4-Dichloro-2-butene	53	12.472	12.469	0.003	84	26843	10.0	9.38	
118 1,2,3-Trichloropropane	110	12.495	12.495	0.000	84	11859	4.00	3.78	
120 N-Propylbenzene	91	12.527	12.527	0.000	98	132499	4.00	3.88	
121 2-Chlorotoluene	126	12.600	12.604	-0.004	96	27198	4.00	3.69	
122 1,3,5-Trimethylbenzene	105	12.661	12.661	0.000	94	96179	4.00	3.71	
123 4-Chlorotoluene	126	12.697	12.697	0.000	97	26542	4.00	3.82	
125 tert-Butylbenzene	134	12.902	12.905	-0.003	92	17644	4.00	3.48	
127 1,2,4-Trimethylbenzene	105	12.944	12.947	-0.003	97	97462	4.00	3.67	
128 sec-Butylbenzene	105	13.066	13.066	0.000	94	117123	4.00	3.71	
131 1,3-Dichlorobenzene	146	13.165	13.165	0.000	98	51721	4.00	3.84	
132 4-Isopropyltoluene	119	13.175	13.172	0.003	97	105325	4.00	3.74	
* 133 1,4-Dichlorobenzene-d4	152	13.220	13.220	0.000	95	448055	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.236	13.239	-0.003	94	52700	4.00	3.84	
148 1,2,3-Trimethylbenzene	105	13.249	13.252	-0.003	98	103910	4.00	3.71	
170 Benzyl chloride	91	13.316	13.316	0.000	98	72044	4.00	3.64	
171 1,3-Diethylbenzene	119	13.371	13.371	0.000	96	62602	4.00	3.74	
172 p-Diethylbenzene	119	13.444	13.444	0.000	94	64811	4.00	3.79	
173 n-Butylbenzene	92	13.464	13.467	-0.003	97	49798	4.00	3.78	
174 1,2-Dichlorobenzene	146	13.499	13.502	-0.003	98	54125	4.00	3.75	
175 o-diethylbenzene	119	13.518	13.518	0.000	95	49895	4.00	3.59	
176 1,2-Dibromo-3-Chloropropane	75	14.041	14.044	-0.003	80	11268	4.00	3.73	
177 1,3,5-Trichlorobenzene	180	14.163	14.166	-0.003	96	39224	4.00	3.81	
179 1,2,4-Trichlorobenzene	180	14.593	14.590	0.003	94	40119	4.00	3.88	
181 2-Ethylhexyl acrylate	55	14.645	14.645	0.000	82	34056	4.00	3.37	
180 Hexachlorobutadiene	225	14.670	14.670	0.000	96	13559	4.00	3.81	
182 Naphthalene	128	14.776	14.776	0.000	97	158305	4.00	3.86	
183 1,2,3-Trichlorobenzene	180	14.924	14.921	0.004	96	40196	4.00	3.85	
184 2-Methylnaphthalene	142	15.569	15.569	0.000	92	81698	4.00	3.61	
S 205 Total Diethylbenzene	1				0			11.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00186	Amount Added: 4.00	Units: uL	
MSV_CCV_CYC_00008	Amount Added: 32.00	Units: uL	
MSV_CCV_VOC#3_00182	Amount Added: 3.20	Units: uL	
MSV_CCV_2CEVE_00178	Amount Added: 4.00	Units: uL	
MSV_CCV_ETOH_00006	Amount Added: 20.00	Units: uL	
MSV_CCV_GASES_00782	Amount Added: 2.00	Units: uL	
MSV_CCV_OH_Sp_00010	Amount Added: 4.00	Units: uL	
MSV_Cent_ISSS_00026	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 04-Jun-2024 13:25:29

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X12.D

Injection Date: 03-Jun-2024 21:22:30

Instrument ID: 9137

Operator ID: mec29284

Lims ID: IC v4

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

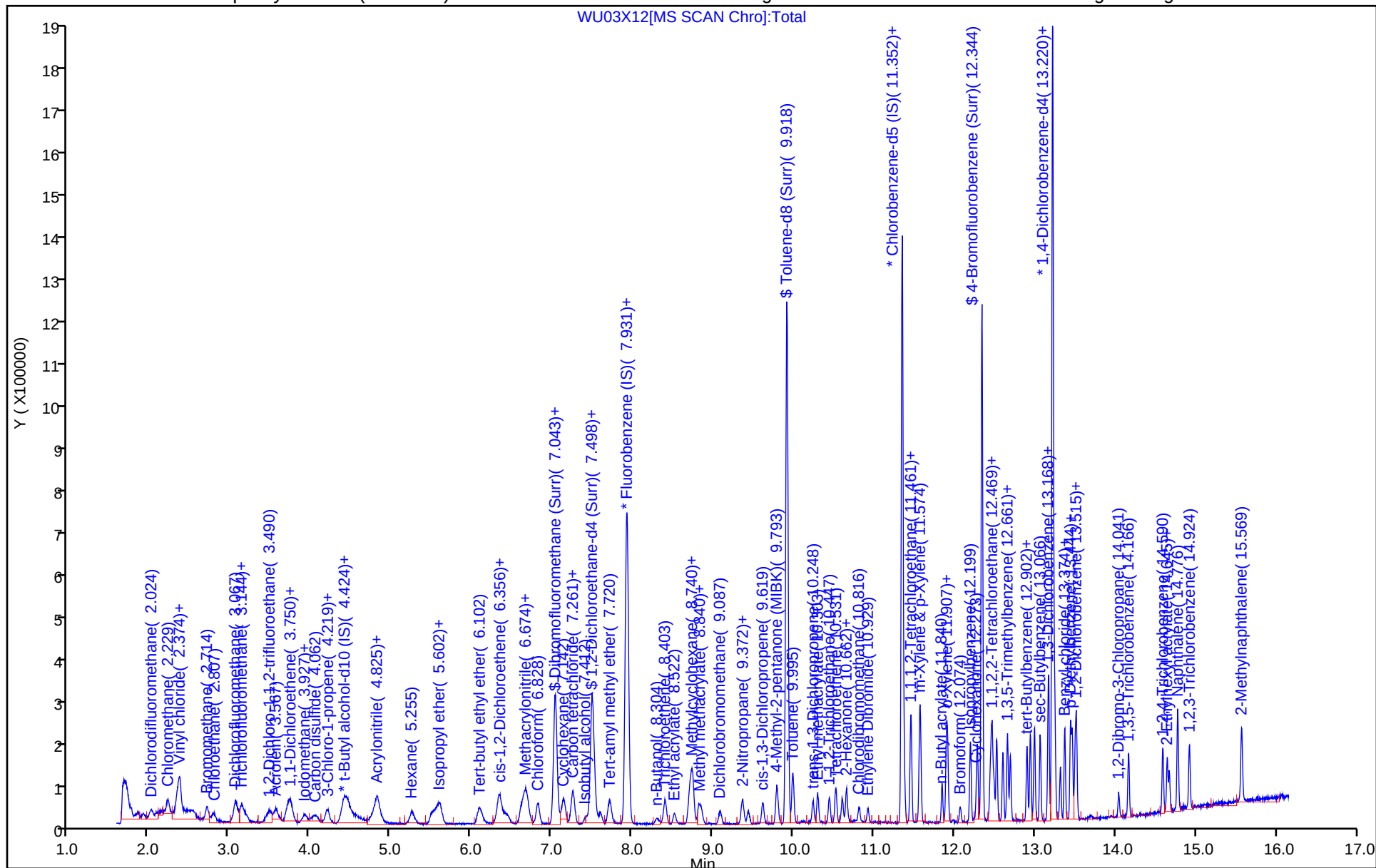
ALS Bottle#: 12

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

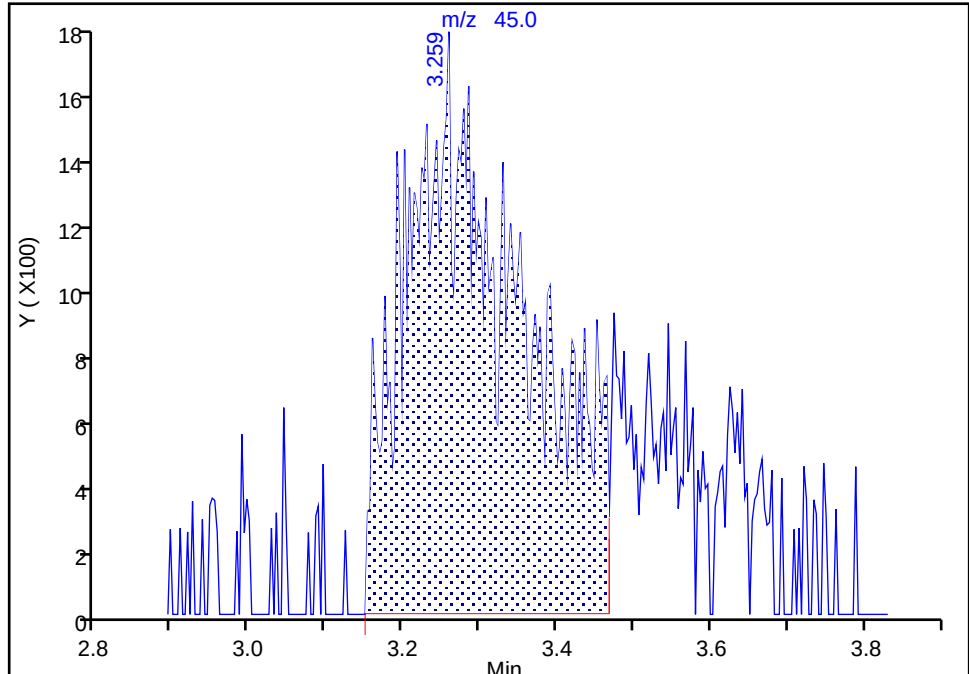
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Injection Date: 03-Jun-2024 21:22:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: mec29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

17 Ethanol, CAS: 64-17-5

Signal: 1

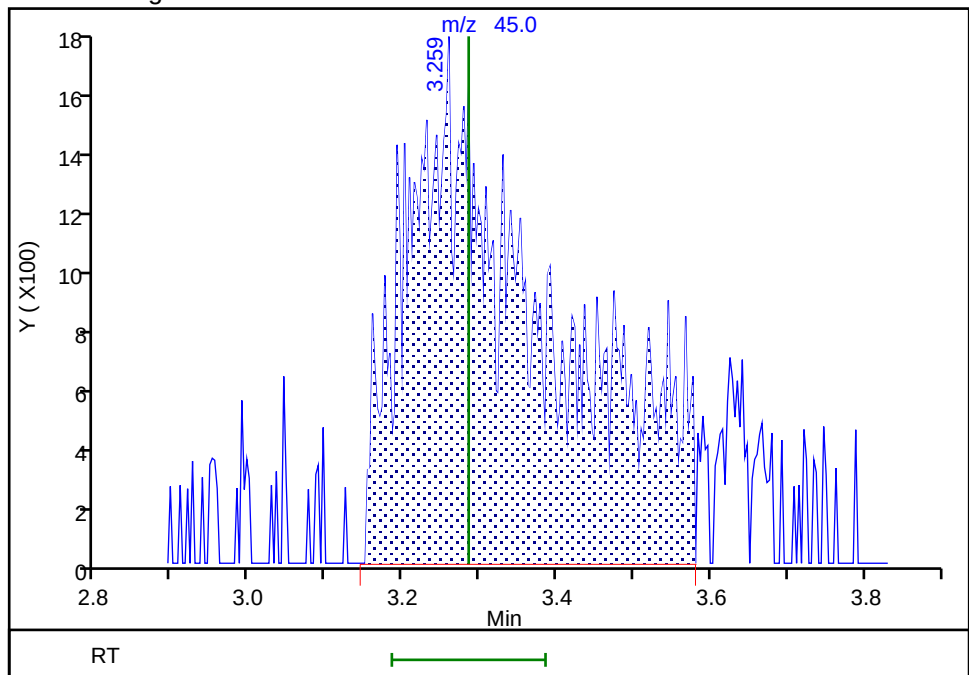
RT: 3.26
Area: 17658
Amount: 293.8815
Amount Units: ug/l

Processing Integration Results



RT: 3.26
Area: 21444
Amount: 272.2420
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:53:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

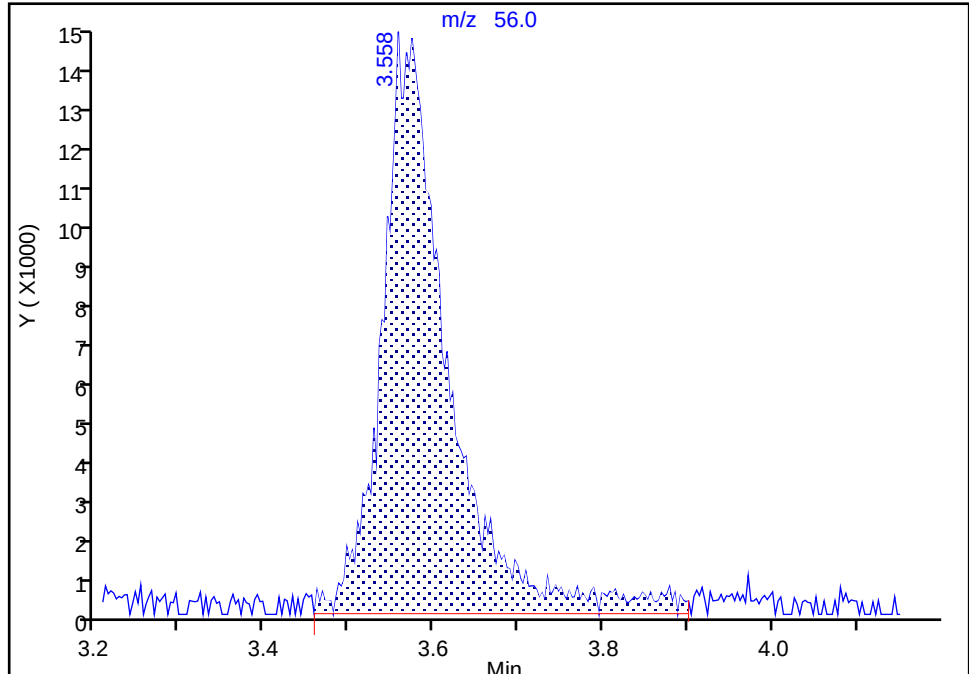
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Injection Date: 03-Jun-2024 21:22:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: mec29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

19 Acrolein, CAS: 107-02-8

Signal: 1

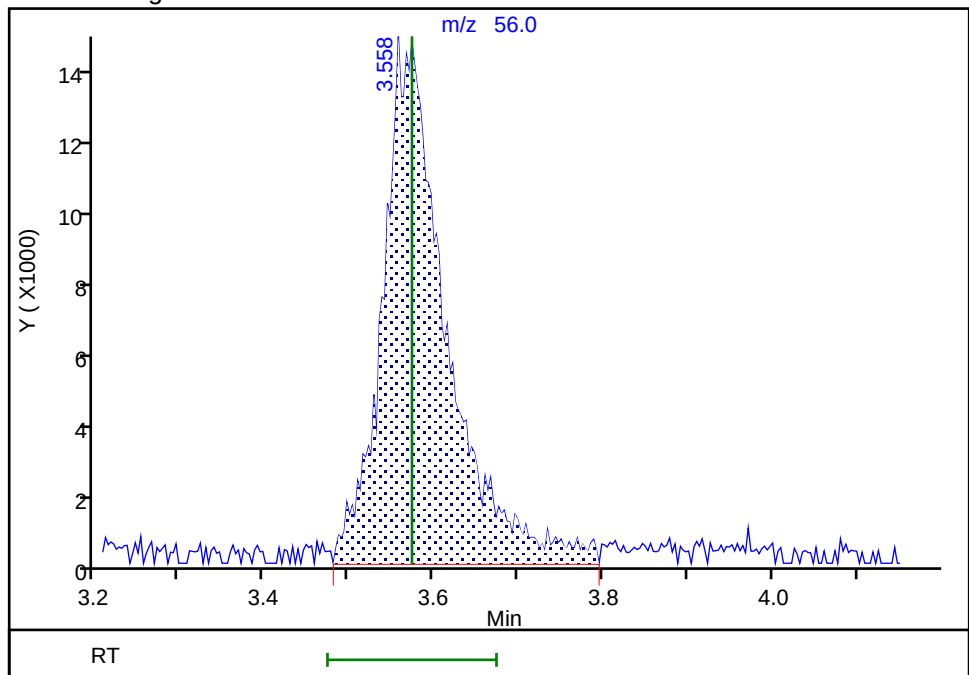
RT: 3.56
Area: 75619
Amount: 43.099191
Amount Units: ug/l

Processing Integration Results



RT: 3.56
Area: 72558
Amount: 41.712399
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 04-Jun-2024 00:24:04 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

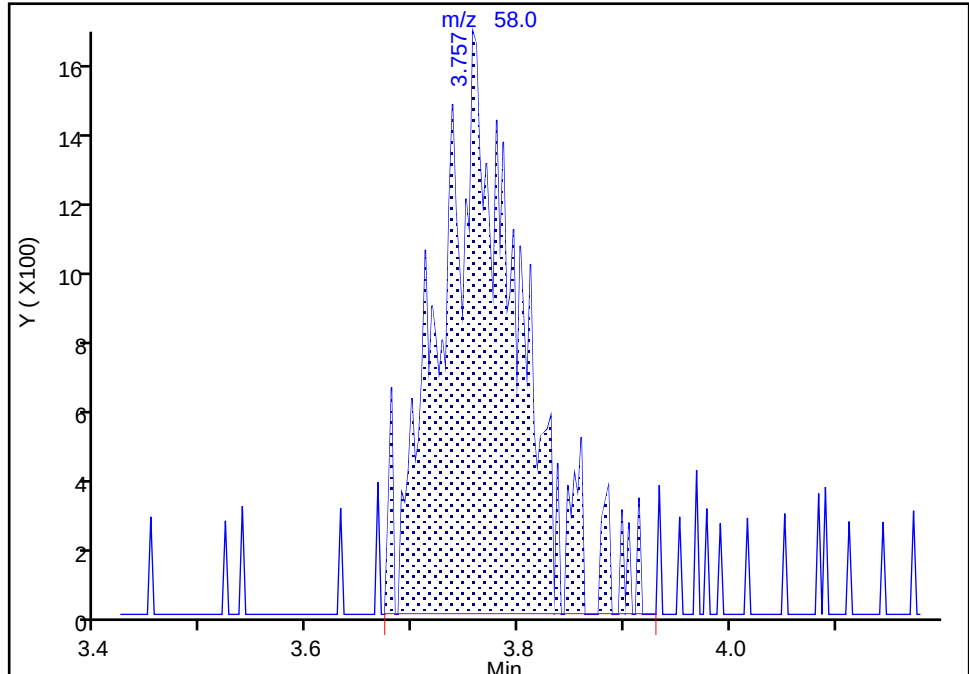
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Lims ID: IC v4
Client ID:
Operator ID: mec29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

20 Acetone, CAS: 67-64-1

Signal: 1

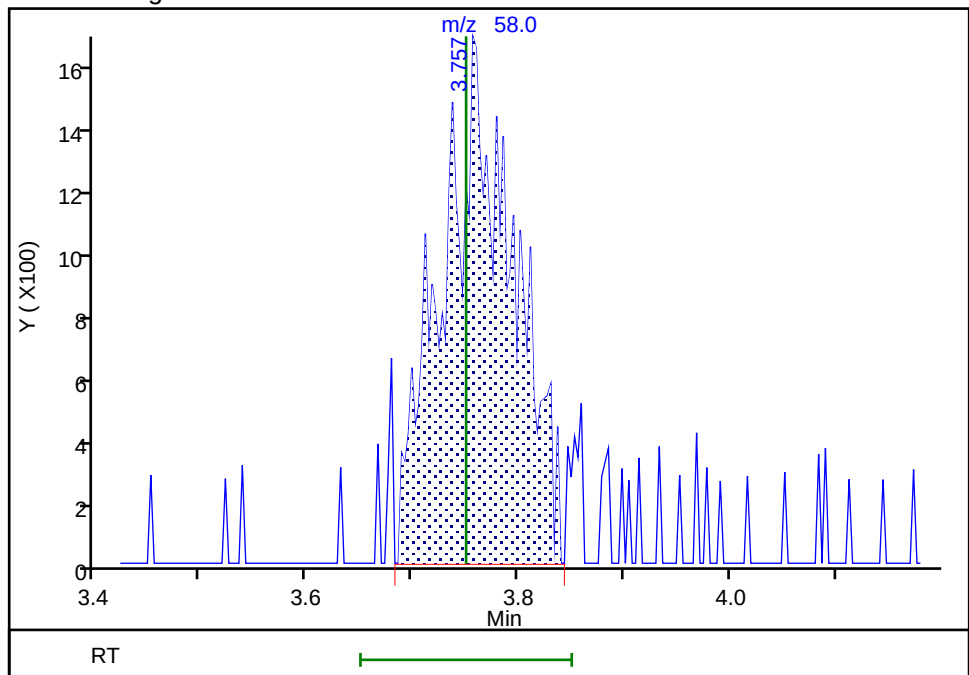
RT: 3.76
Area: 8362
Amount: 9.198643
Amount Units: ug/l

Processing Integration Results



RT: 3.76
Area: 7487
Amount: 8.420019
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:53:56 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

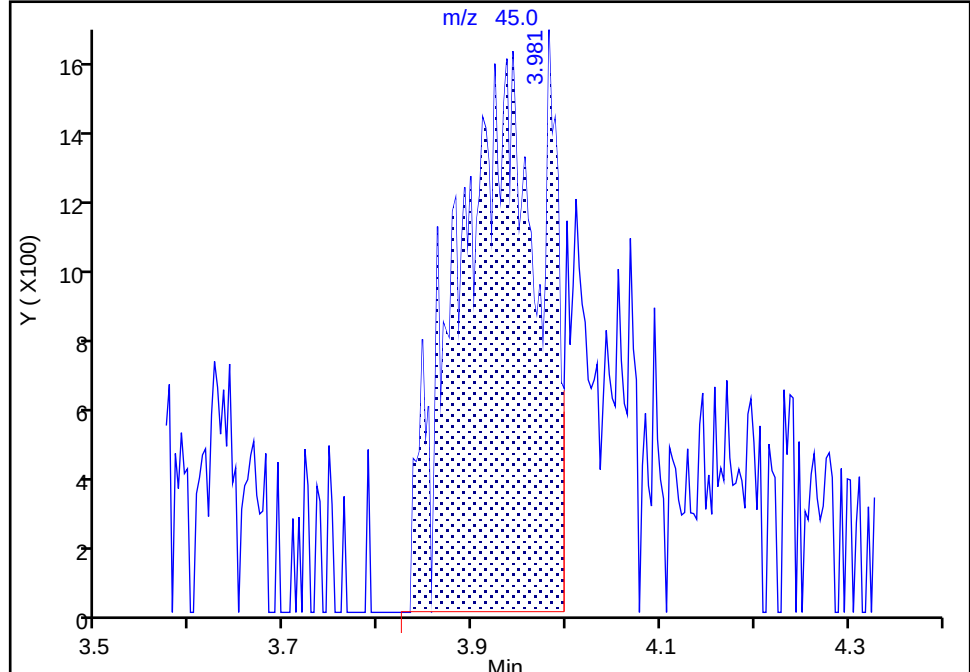
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Lims ID: IC v4
Client ID:
Operator ID: mec29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

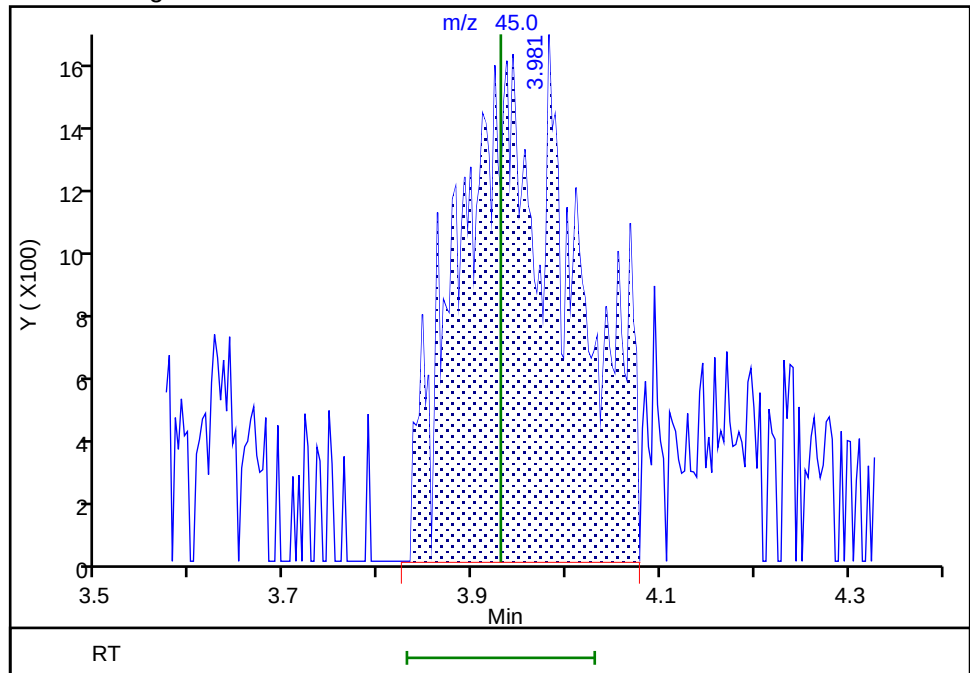
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Area: 9761
Amount: 25.048361
Amount Units: ug/l

Processing Integration Results



RT: 3.98
Area: 13231
Amount: 23.194145
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:54:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

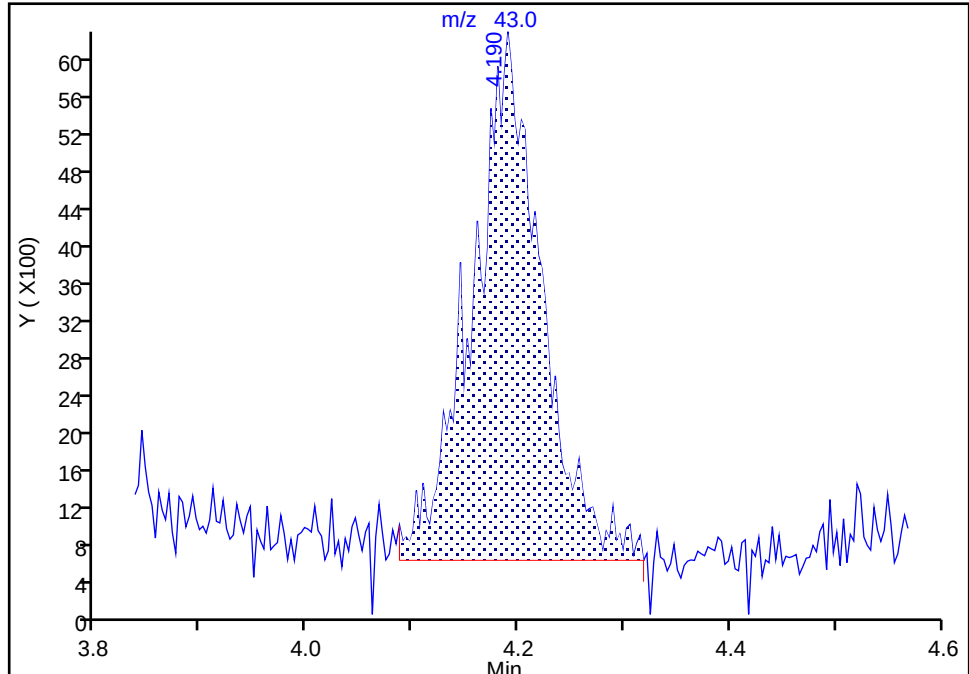
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Client ID:
Operator ID: mec29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

28 Methyl acetate, CAS: 79-20-9

Signal: 1

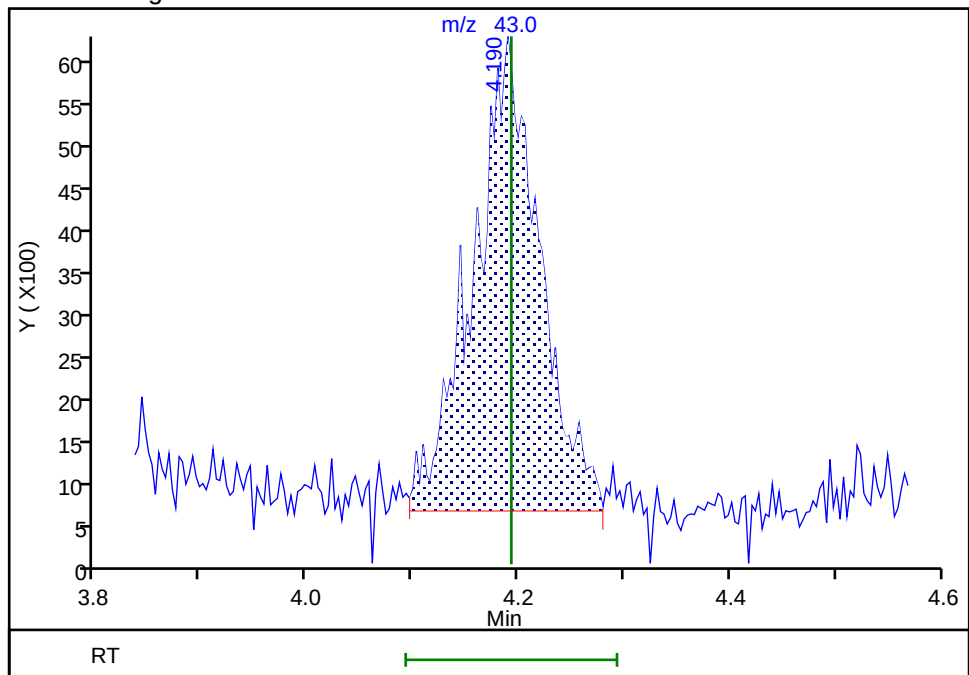
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Area: 25568
Amount: 5.103981
Amount Units: ug/l

Processing Integration Results



RT: 4.19
Area: 24343
Amount: 3.919299
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:54:30 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

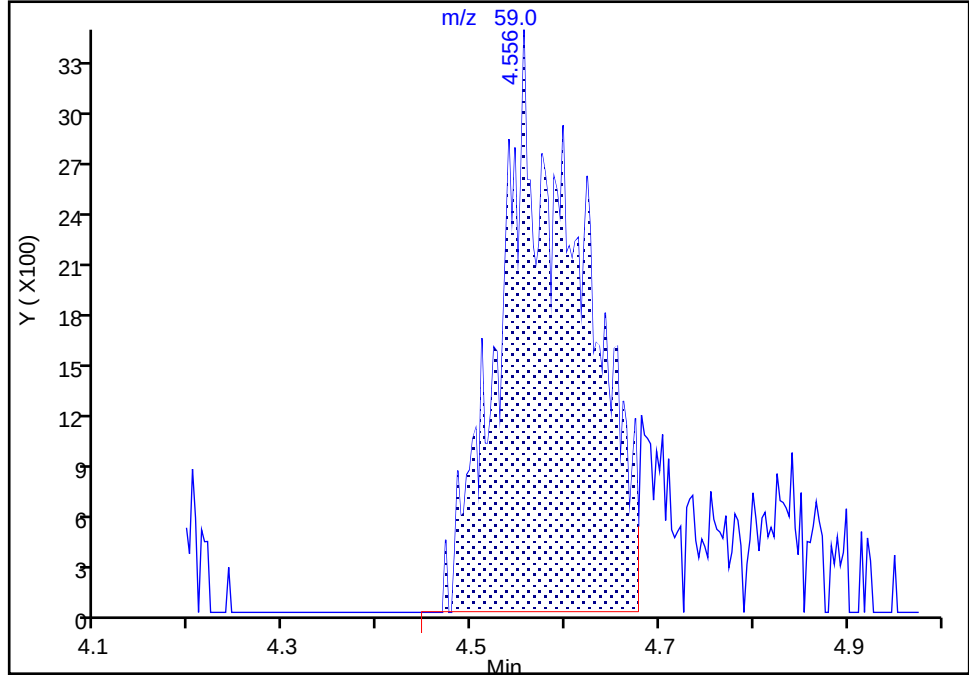
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Lims ID: IC v4
Client ID:
Operator ID: mec29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

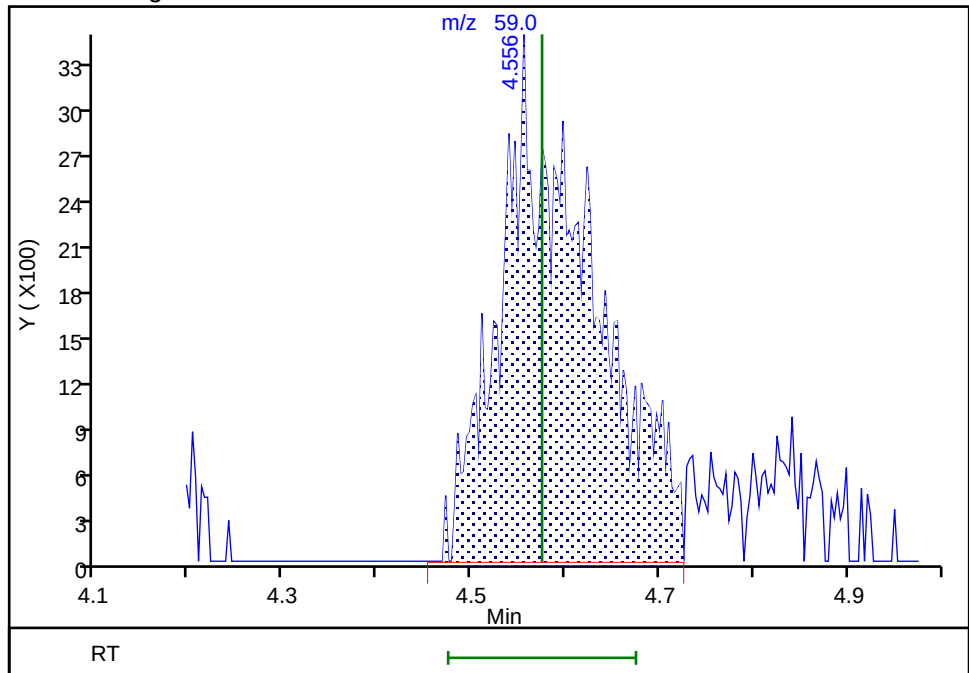
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Amount: 17.419516
Amount Units: ug/l

Processing Integration Results



RT: 4.56
Area: 22573
Amount: 19.329513
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:54:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

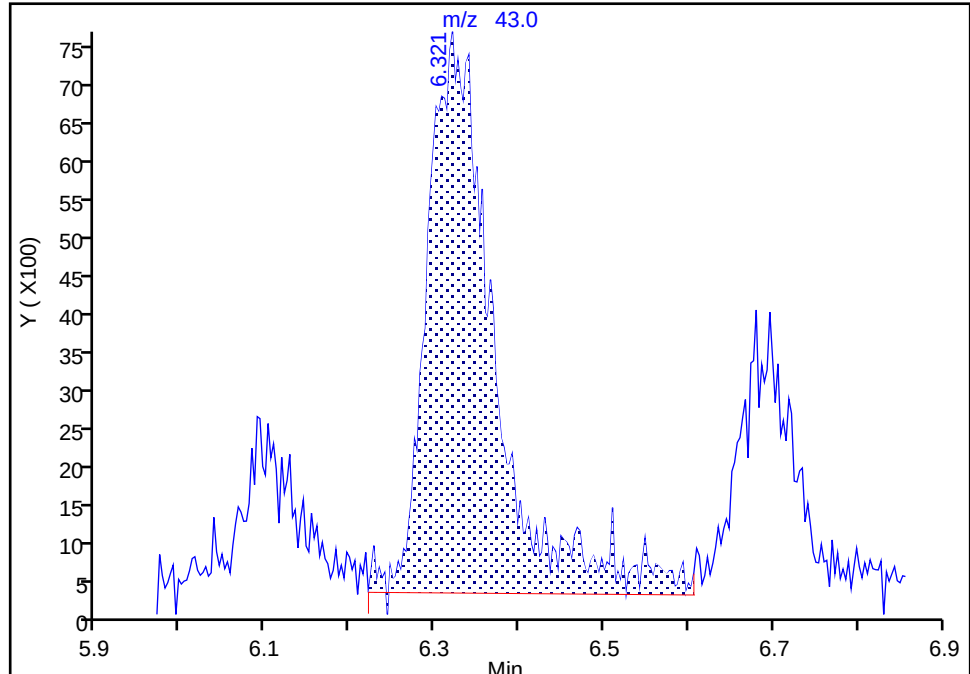
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Lims ID: IC v4
Client ID:
Operator ID: mec29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

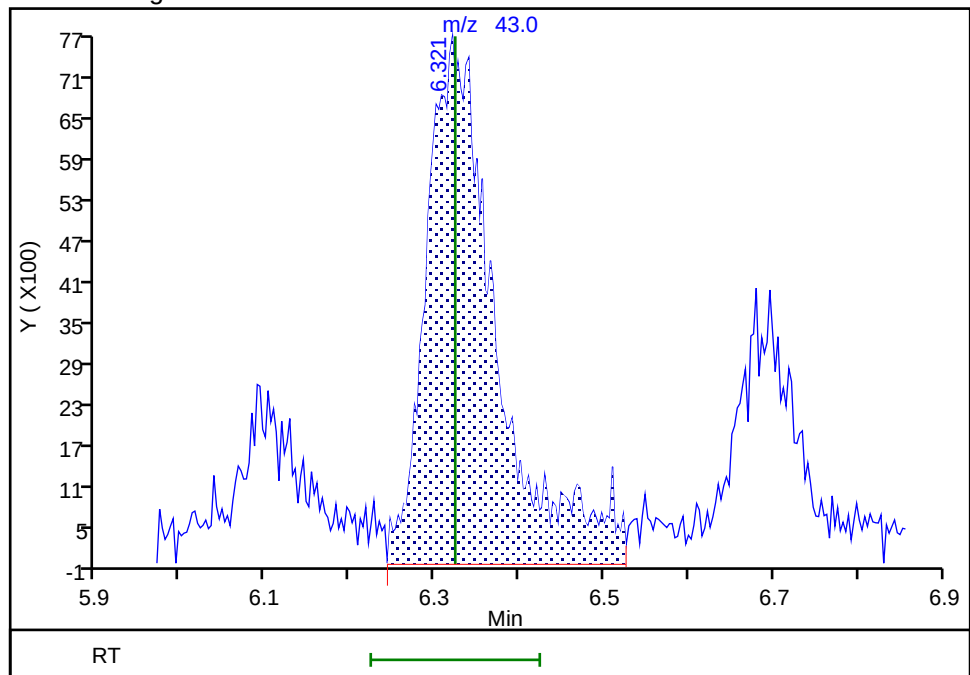
RT: 6.32
Area: 40890
Amount: 9.346229
Amount Units: ug/l

Processing Integration Results



RT: 6.32
Area: 43868
Amount: 9.036262
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:55:12 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

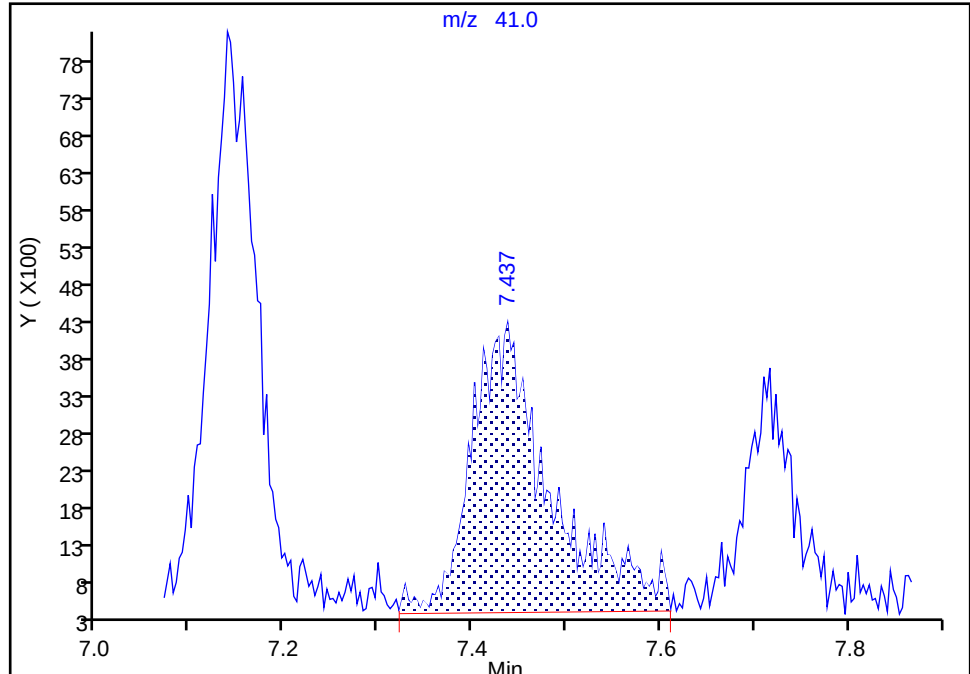
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X12.D
Injection Date: 03-Jun-2024 21:22:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: mec29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

59 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

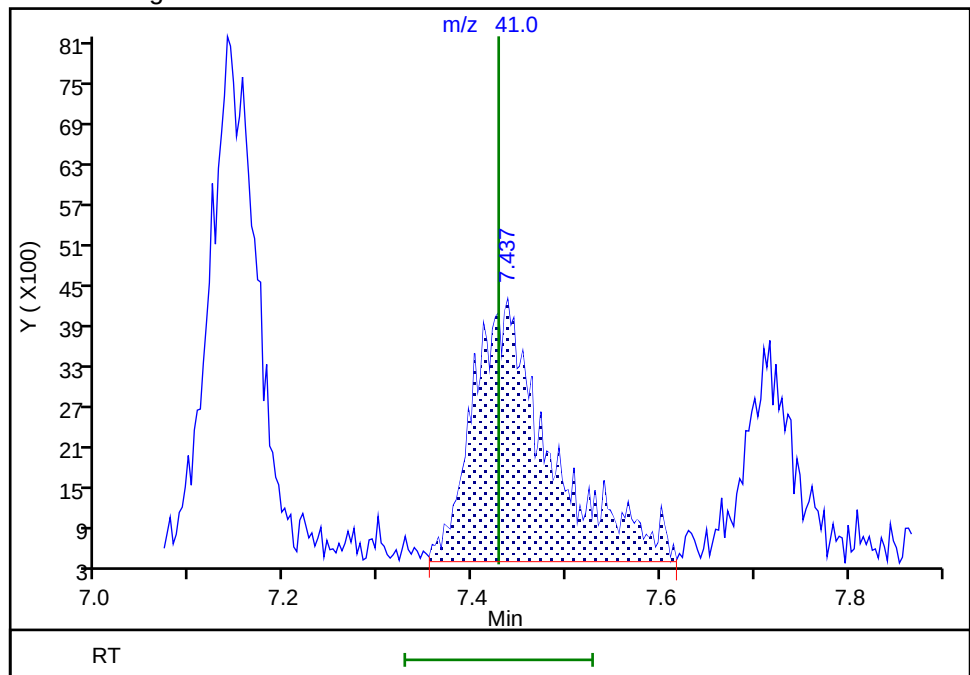
RT: 7.44
Area: 22302
Amount: 67.756246
Amount Units: ug/l

Processing Integration Results



RT: 7.44
Area: 22491
Amount: 57.261679
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:55:35 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

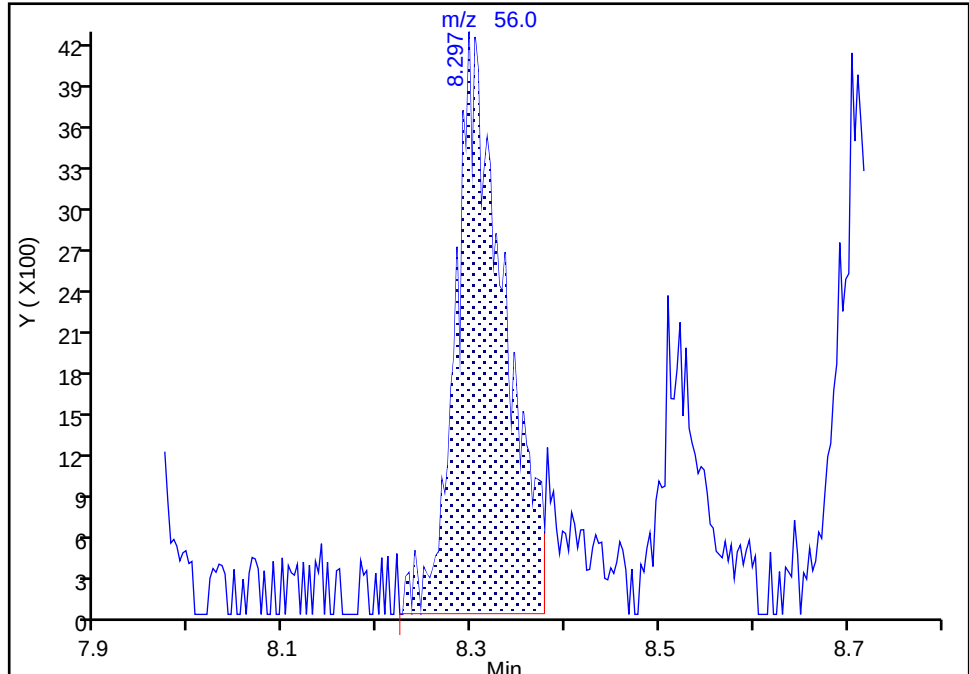
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Injection Date: 03-Jun-2024 21:22:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: mec29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

67 n-Butanol, CAS: 71-36-3

Signal: 1

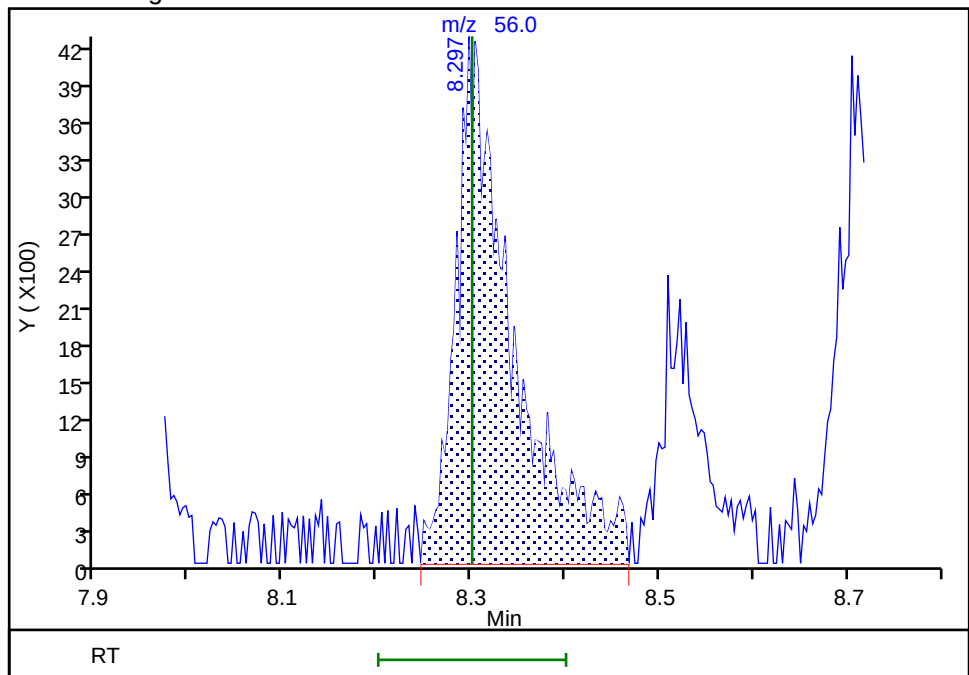
RT: 8.30
Area: 15001
Amount: 47.613276
Amount Units: ug/l

Processing Integration Results



RT: 8.30
Area: 17514
Amount: 53.797312
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:55:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X13.D
 Lims ID: IC v10
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 03-Jun-2024 21:44:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0115635-014
 Misc. Info.: LG 10
 Operator ID: mec29284 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub73
 Method: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-Jun-2024 13:25:33 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1676

First Level Reviewer: K4WN

Date: 03-Jun-2024 23:57:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.021	2.027	-0.006	99	157608	10.0	11.7	
7 Chloromethane	50	2.226	2.229	-0.003	99	133478	10.0	11.3	
8 Vinyl chloride	62	2.345	2.354	-0.009	98	141401	10.0	11.7	
9 Butadiene	39	2.374	2.377	-0.003	91	142779	10.0	11.8	
11 Bromomethane	94	2.720	2.720	0.000	92	92201	10.0	11.3	
12 Chloroethane	64	2.804	2.800	0.004	98	68330	10.0	11.5	
13 Dichlorofluoromethane	67	3.067	3.073	-0.006	97	189136	10.0	11.3	
14 Trichlorofluoromethane	101	3.134	3.137	-0.003	96	156982	10.0	11.6	
15 Pentane	43	3.160	3.160	0.000	94	103795	10.0	10.2	
17 Ethanol	45	3.259	3.285	-0.026	58	48024	500.0	472.1	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.487	3.494	-0.007	95	98433	10.0	11.5	
19 Acrolein	56	3.571	3.574	-0.003	99	191393	100.2	85.2	M
21 1,1-Dichloroethene	96	3.728	3.728	0.000	96	60699	10.0	10.1	
20 Acetone	58	3.766	3.750	0.016	50	22345	20.0	19.5	M
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.750	3.757	-0.007	94	73020	10.0	10.1	
25 Iodomethane	142	3.933	3.930	0.003	98	117063	10.0	10.2	
23 Isopropyl alcohol	45	3.924	3.930	-0.006	28	29434	50.0	40.0	
26 Carbon disulfide	76	4.071	4.068	0.003	100	203996	10.0	10.2	
28 Methyl acetate	43	4.196	4.193	0.003	39	63434	10.0	10.2	M
27 3-Chloro-1-propene	41	4.209	4.216	-0.007	91	80460	10.0	10.1	
30 Methylene Chloride	84	4.431	4.424	0.007	93	65628	10.0	10.1	
* 32 t-Butyl alcohol-d10 (IS)	65	4.437	4.485	-0.048	58	356996	250.0	250.0	
33 2-Methyl-2-propanol	59	4.597	4.575	0.022	75	69669	50.0	46.2	
34 Acrylonitrile	53	4.784	4.777	0.007	99	95558	25.0	25.9	
36 Methyl tert-butyl ether	73	4.825	4.832	-0.007	91	197406	10.0	10.4	
35 trans-1,2-Dichloroethene	96	4.835	4.835	0.000	98	55853	10.0	10.3	
37 Hexane	57	5.262	5.265	-0.003	94	77969	10.0	10.2	
38 1,1-Dichloroethane	63	5.512	5.509	0.003	96	94965	10.0	10.2	
40 Isopropyl ether	45	5.560	5.563	-0.003	94	176739	10.0	10.3	
41 2-Chloro-1,3-butadiene	53	5.611	5.615	-0.004	93	87900	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
42 Tert-butyl ethyl ether	59	6.099	6.099	0.000	97	177543	10.0	10.2	
S 80 1,2-Dichloroethene, Total	100				0			20.6	
44 2-Butanone (MEK)	43	6.327	6.324	0.003	95	96116	20.0	19.7	M
43 cis-1,2-Dichloroethene	96	6.346	6.343	0.003	80	62533	10.0	10.3	
45 2,2-Dichloropropane	77	6.359	6.366	-0.007	81	106640	10.0	10.2	
47 Propionitrile	54	6.414	6.417	-0.003	96	88672	50.0	48.2	
48 Methyl acrylate	55	6.446	6.443	0.003	98	95976	10.0	10.7	
49 Methacrylonitrile	67	6.632	6.635	-0.003	90	92126	25.0	25.3	
50 Chlorobromomethane	128	6.674	6.670	0.004	89	32138	10.0	10.5	
51 Tetrahydrofuran	71	6.683	6.690	-0.007	87	76795	50.0	45.9	
52 Chloroform	83	6.821	6.831	-0.010	94	114377	10.0	10.1	
\$ 54 Dibromofluoromethane (Surr)	113	7.043	7.043	0.000	93	246286	50.0	50.5	
55 1,1,1-Trichloroethane	97	7.059	7.052	0.007	97	105145	10.0	10.3	
56 Cyclohexane	56	7.145	7.149	-0.004	90	114921	10.0	9.73	
58 Carbon tetrachloride	117	7.261	7.261	0.000	94	87856	10.0	10.1	
57 1,1-Dichloropropene	75	7.261	7.264	-0.003	94	83160	10.0	10.4	
59 Isobutyl alcohol	41	7.437	7.428	0.009	89	60448	125.0	119.2	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.492	7.505	-0.013	72	61915	50.0	50.6	
61 Benzene	78	7.530	7.530	0.000	96	229292	10.0	10.2	
62 1,2-Dichloroethane	62	7.601	7.604	-0.003	97	76000	10.0	10.1	
64 Tert-amyl methyl ether	73	7.713	7.717	-0.003	98	183461	10.0	10.3	
* 65 Fluorobenzene (IS)	96	7.932	7.935	-0.003	99	979275	50.0	50.0	
66 n-Heptane	43	7.935	7.938	-0.003	52	68088	10.0	9.98	
67 n-Butanol	56	8.310	8.301	0.009	87	47504	125.0	113.0	
68 Trichloroethene	95	8.413	8.406	0.007	96	58890	10.0	9.81	
69 Ethyl acrylate	55	8.522	8.525	-0.003	99	87635	10.0	9.51	
70 Methylcyclohexane	83	8.715	8.714	0.000	92	112914	10.0	10.1	
72 2-ethoxy-2-methyl butane	87	8.743	8.750	-0.007	91	90554	10.0	10.0	
71 1,2-Dichloropropane	63	8.747	8.753	-0.006	70	57350	10.0	10.2	
74 Methyl methacrylate	69	8.824	8.827	-0.003	89	52741	10.0	9.95	
75 1,4-Dioxane	88	8.836	8.833	0.003	32	12469	125.0	121.9	M
73 Dibromomethane	93	8.856	8.859	-0.003	97	40390	10.0	10.1	
77 Dichlorobromomethane	83	9.090	9.090	0.000	99	67513	10.0	9.73	
78 2-Nitropropane	41	9.372	9.369	0.003	99	132374	50.0	42.9	
79 2-Chloroethyl vinyl ether	63	9.443	9.443	0.000	91	40460	10.0	10.2	
81 cis-1,3-Dichloropropene	75	9.619	9.623	-0.004	95	82295	10.0	9.65	
83 4-Methyl-2-pentanone (MIBK)	43	9.796	9.796	0.000	96	197628	20.0	21.1	
\$ 84 Toluene-d8 (Surr)	98	9.918	9.921	-0.003	93	984808	50.0	50.5	
85 Toluene	92	9.995	9.995	0.000	97	142285	10.0	10.3	
S 162 1,3-Dichloropropene, Total	100				0			19.4	
86 trans-1,3-Dichloropropene	75	10.248	10.245	0.003	94	72303	10.0	9.74	
87 Ethyl methacrylate	69	10.303	10.306	-0.003	89	89303	10.0	10.2	
88 1,1,2-Trichloroethane	97	10.444	10.447	-0.003	90	49509	10.0	10.1	
90 Tetrachloroethene	166	10.528	10.528	0.000	97	62925	10.0	10.3	
91 1,3-Dichloropropane	76	10.611	10.611	0.000	91	79034	10.0	10.0	
94 2-Hexanone	43	10.659	10.659	0.000	95	128726	20.0	21.0	
96 Chlorodibromomethane	129	10.813	10.816	-0.003	89	51808	10.0	9.83	
98 Ethylene Dibromide	107	10.929	10.929	0.000	99	52816	10.0	10.2	
S 178 Xylenes, Total	106				0			31.0	
* 101 Chlorobenzene-d5 (IS)	117	11.352	11.352	0.000	86	712657	50.0	50.0	
103 1-Chlorohexane	91	11.355	11.359	-0.004	96	76854	10.0	10.1	
102 Chlorobenzene	112	11.378	11.378	0.000	97	154540	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
104 1,1,1,2-Tetrachloroethane	131	11.458	11.458	0.000	94	61751	10.0	10.2	
105 Ethylbenzene	91	11.461	11.461	0.000	98	284644	10.0	10.4	
106 m-Xylene & p-Xylene	106	11.574	11.574	0.000	98	223049	20.0	20.7	
107 n-Butyl acrylate	55	11.850	11.846	0.004	96	127715	10.0	10.5	
108 o-Xylene	106	11.901	11.901	0.000	96	117763	10.0	10.3	
109 Styrene	104	11.917	11.917	0.000	95	171926	10.0	10.2	
110 Bromoform	173	12.074	12.074	0.000	95	39272	10.0	9.81	
111 Isopropylbenzene	105	12.199	12.199	0.000	95	297265	10.0	10.5	
113 Cyclohexanone	55	12.283	12.286	-0.003	92	102209	250.0	240.5	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.344	12.344	0.000	90	357608	50.0	50.5	
116 1,1,2,2-Tetrachloroethane	83	12.443	12.443	0.000	95	97597	10.0	10.1	
115 Bromobenzene	156	12.459	12.462	-0.003	94	67490	10.0	9.95	
119 trans-1,4-Dichloro-2-butene	53	12.469	12.469	0.000	94	70988	25.0	25.3	
118 1,2,3-Trichloropropane	110	12.491	12.495	-0.004	84	31574	10.0	10.3	
120 N-Propylbenzene	91	12.527	12.527	0.000	98	342335	10.0	10.2	
121 2-Chlorotoluene	126	12.604	12.604	0.000	97	71799	10.0	9.91	
122 1,3,5-Trimethylbenzene	105	12.661	12.661	0.000	94	255774	10.0	10.0	
123 4-Chlorotoluene	126	12.697	12.697	0.000	97	67974	10.0	9.96	
125 tert-Butylbenzene	134	12.902	12.905	-0.003	92	48710	10.0	9.78	
127 1,2,4-Trimethylbenzene	105	12.944	12.947	-0.003	97	260225	10.0	9.98	
128 sec-Butylbenzene	105	13.066	13.066	0.000	94	309672	10.0	9.99	
131 1,3-Dichlorobenzene	146	13.168	13.165	0.003	98	134783	10.0	10.2	
132 4-Isopropyltoluene	119	13.172	13.172	0.000	97	276667	10.0	10.0	
* 133 1,4-Dichlorobenzene-d4	152	13.220	13.220	0.000	95	440100	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.236	13.239	-0.003	96	137487	10.0	10.2	
148 1,2,3-Trimethylbenzene	105	13.249	13.252	-0.003	98	276085	10.0	10.0	
170 Benzyl chloride	91	13.319	13.316	0.003	98	193208	10.0	9.94	
171 1,3-Diethylbenzene	119	13.371	13.371	0.000	95	164336	10.0	10.0	
172 p-Diethylbenzene	119	13.444	13.444	0.000	94	169847	10.0	10.1	
173 n-Butylbenzene	92	13.464	13.467	-0.003	97	130812	10.0	10.1	
174 1,2-Dichlorobenzene	146	13.502	13.502	0.000	98	143995	10.0	10.2	
175 o-diethylbenzene	119	13.518	13.518	0.000	95	134680	10.0	9.88	
176 1,2-Dibromo-3-Chloropropane	75	14.041	14.044	-0.003	86	30081	10.0	10.1	
177 1,3,5-Trichlorobenzene	180	14.166	14.166	0.000	97	104740	10.0	10.4	
179 1,2,4-Trichlorobenzene	180	14.593	14.590	0.003	95	105711	10.0	10.4	
181 2-Ethylhexyl acrylate	55	14.645	14.645	0.000	81	95844	10.0	9.66	
180 Hexachlorobutadiene	225	14.673	14.670	0.003	97	35637	10.0	10.2	
182 Naphthalene	128	14.776	14.776	0.000	97	434437	10.0	10.8	
183 1,2,3-Trichlorobenzene	180	14.924	14.921	0.004	95	106939	10.0	10.4	
184 2-Methylnaphthalene	142	15.569	15.569	0.000	92	237578	10.0	10.7	
S 205 Total Diethylbenzene	1				0			30.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00186	Amount Added: 2.00	Units: uL	
MSV_CCV_CYC_00008	Amount Added: 8.00	Units: uL	
MSV_CCV_VOC#3_00182	Amount Added: 1.60	Units: uL	
MSV_CCV_2CEVE_00178	Amount Added: 2.00	Units: uL	
MSV_CCV_ETOH_00006	Amount Added: 8.00	Units: uL	
MSV_CCV_GASES_00782	Amount Added: 1.00	Units: uL	
MSV_CCV_OH_Sp_00010	Amount Added: 2.00	Units: uL	
MSV_Cent_ISSS_00026	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 04-Jun-2024 13:25:34

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X13.D

Injection Date: 03-Jun-2024 21:44:30

Instrument ID: 9137

Operator ID: mec29284

Lims ID: IC v10

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

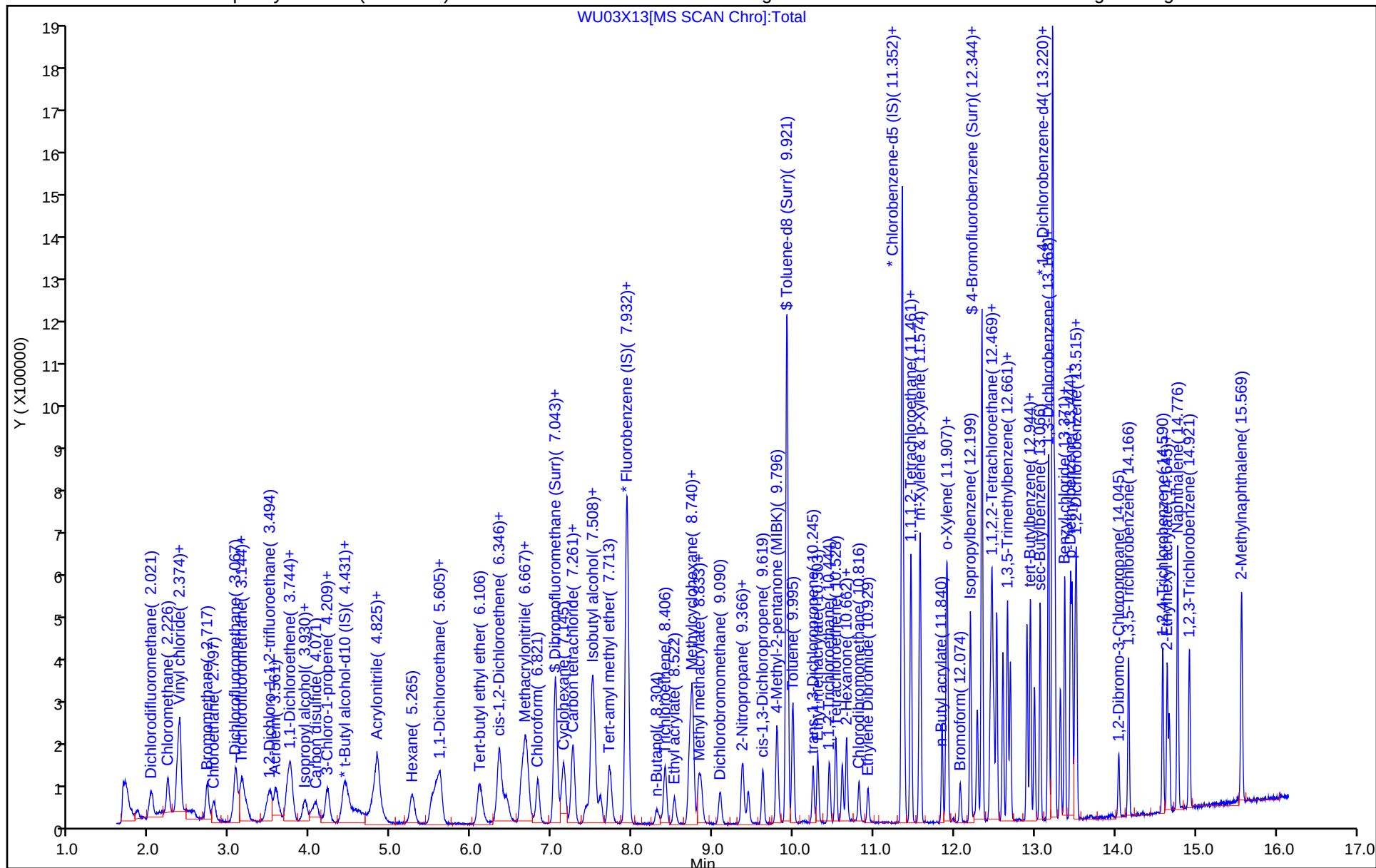
ALS Bottle#: 13

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

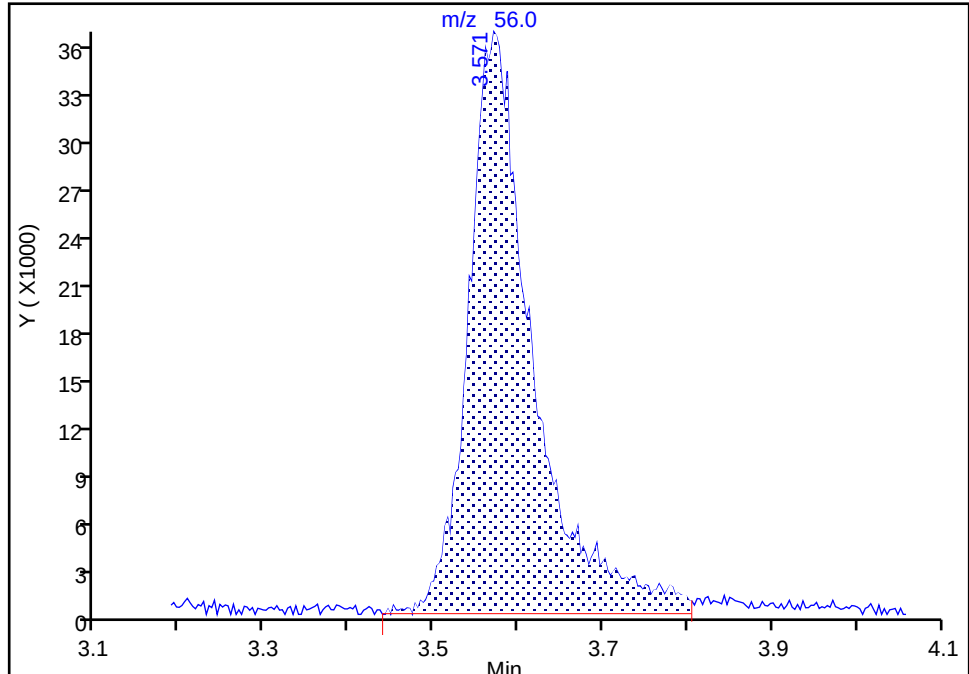
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Injection Date: 03-Jun-2024 21:44:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: mec29284 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

19 Acrolein, CAS: 107-02-8

Signal: 1

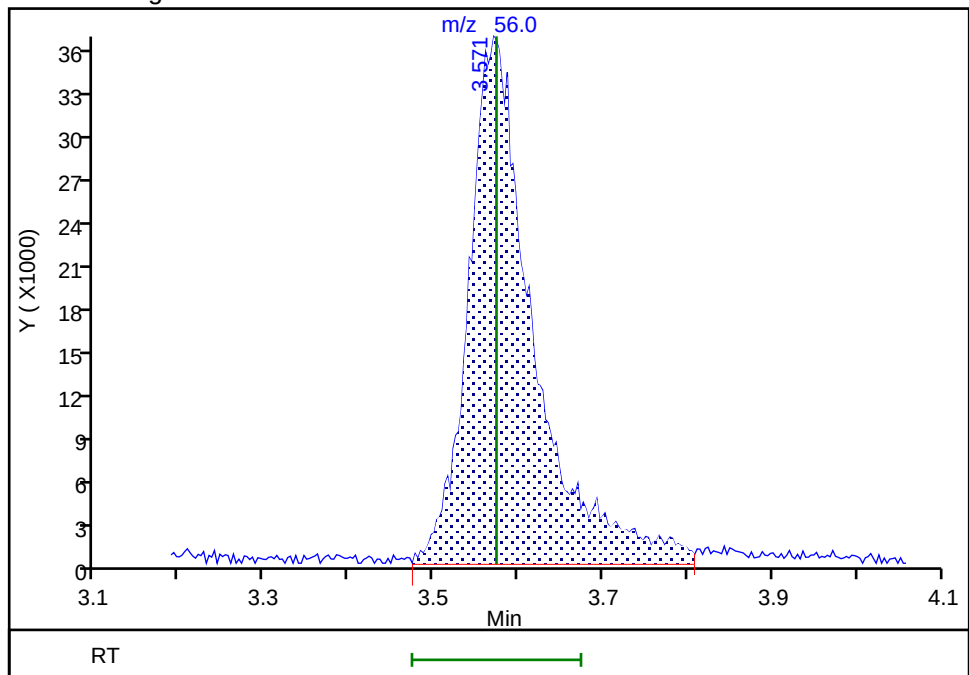
RT: 3.57
Area: 191981
Amount: 85.250492
Amount Units: ug/l

Processing Integration Results



RT: 3.57
Area: 191393
Amount: 85.191819
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 04-Jun-2024 00:24:39 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

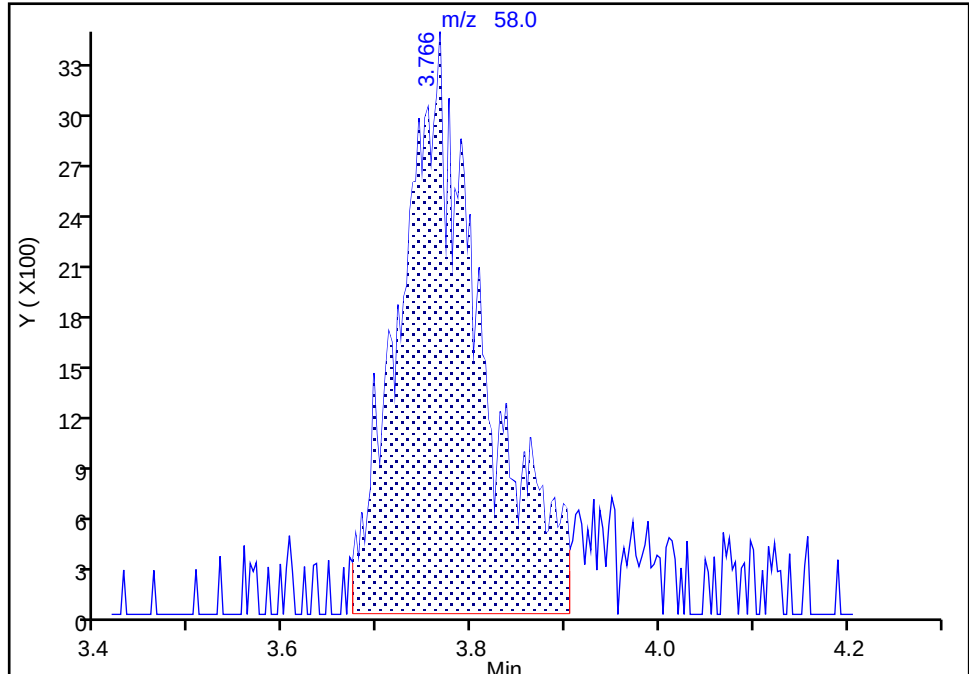
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Lims ID: IC v10
Client ID:
Operator ID: mec29284 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

20 Acetone, CAS: 67-64-1

Signal: 1

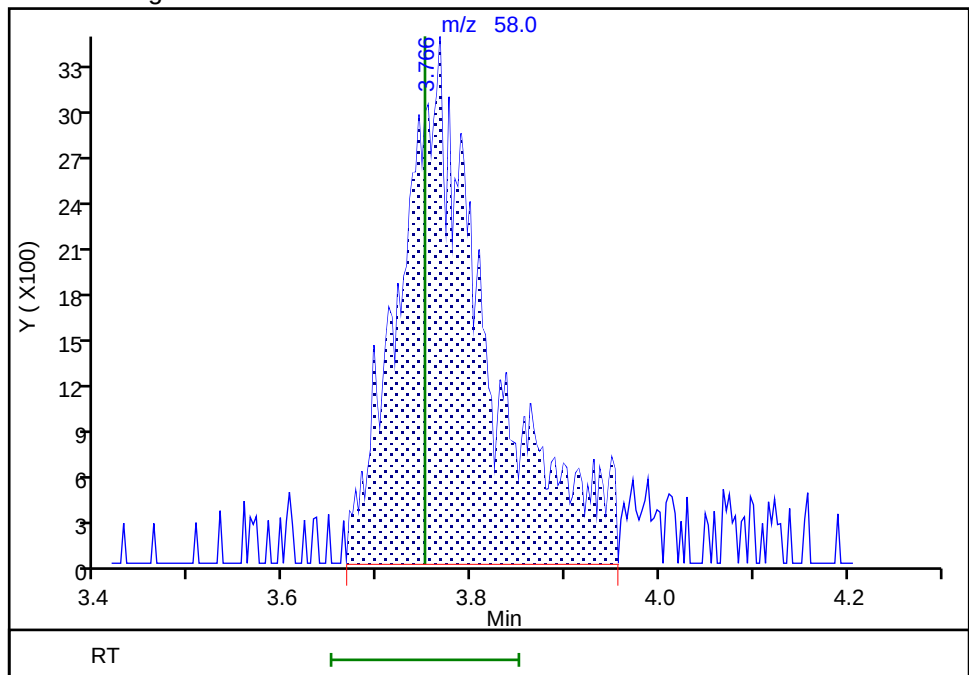
RT: 3.77
Area: 20811
Amount: 18.827089
Amount Units: ug/l

Processing Integration Results



RT: 3.77
Area: 22345
Amount: 19.457076
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:56:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

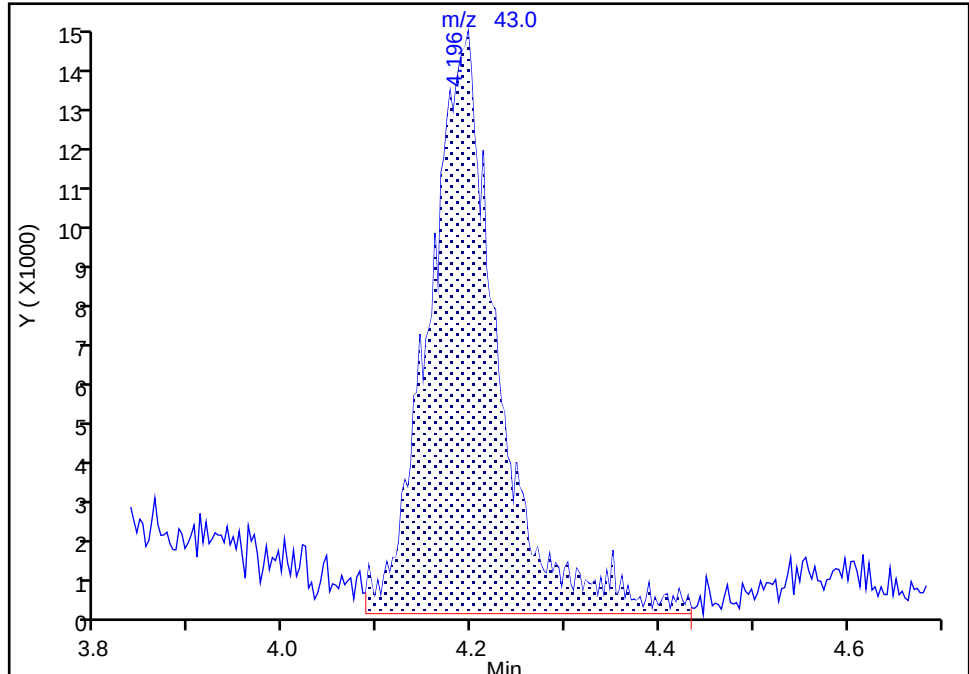
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Injection Date: 03-Jun-2024 21:44:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: mec29284 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

28 Methyl acetate, CAS: 79-20-9

Signal: 1

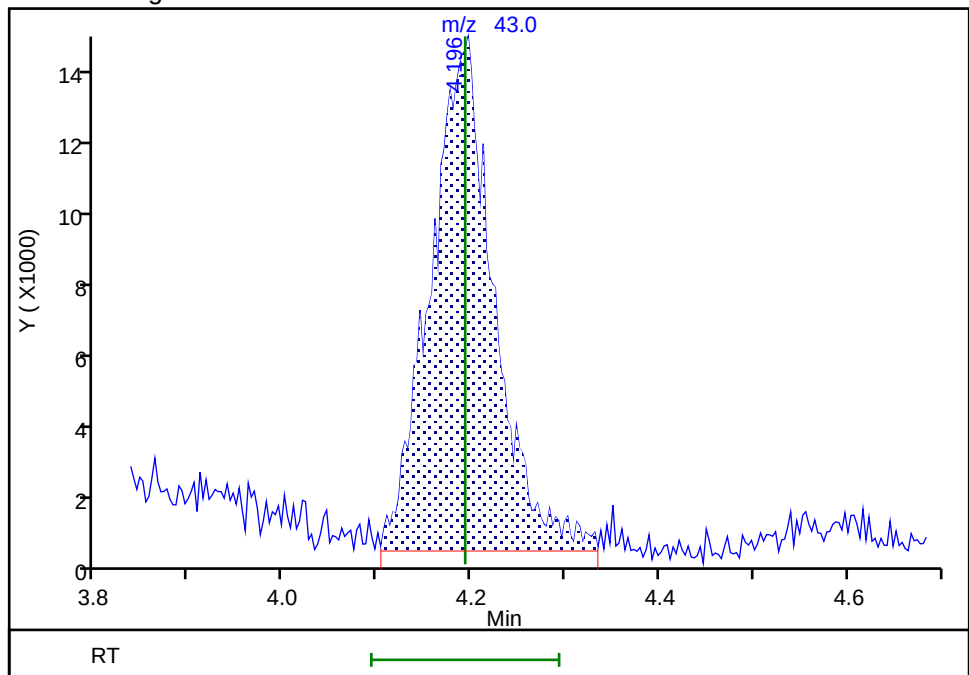
RT: 4.20
Area: 71199
Amount: 13.200193
Amount Units: ug/l

Processing Integration Results



RT: 4.20
Area: 63434
Amount: 10.152573
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:56:47 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

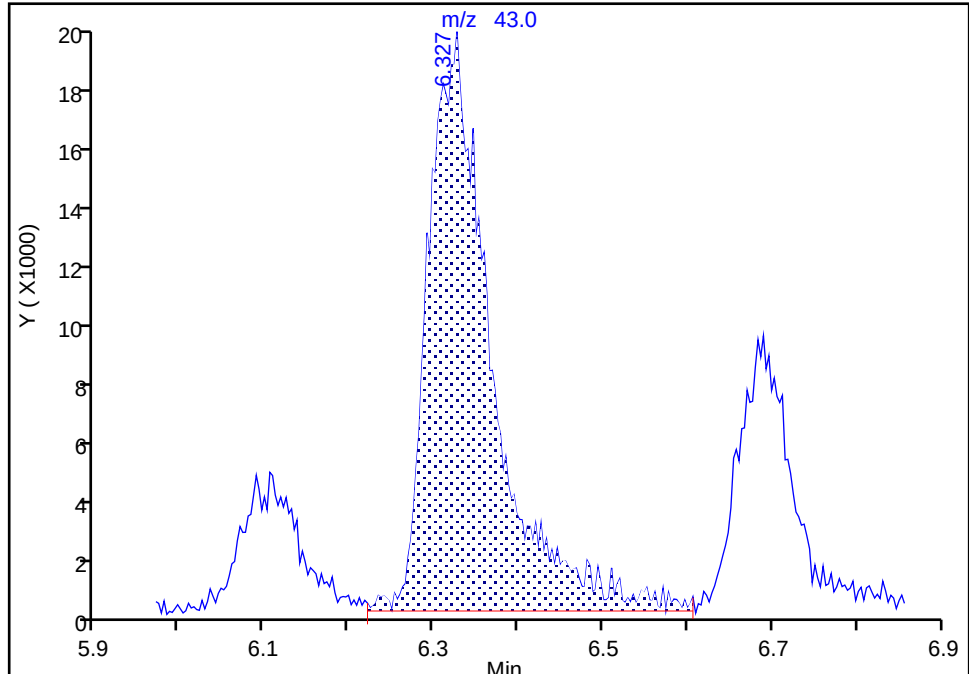
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X13.D
Injection Date: 03-Jun-2024 21:44:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: mec29284 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

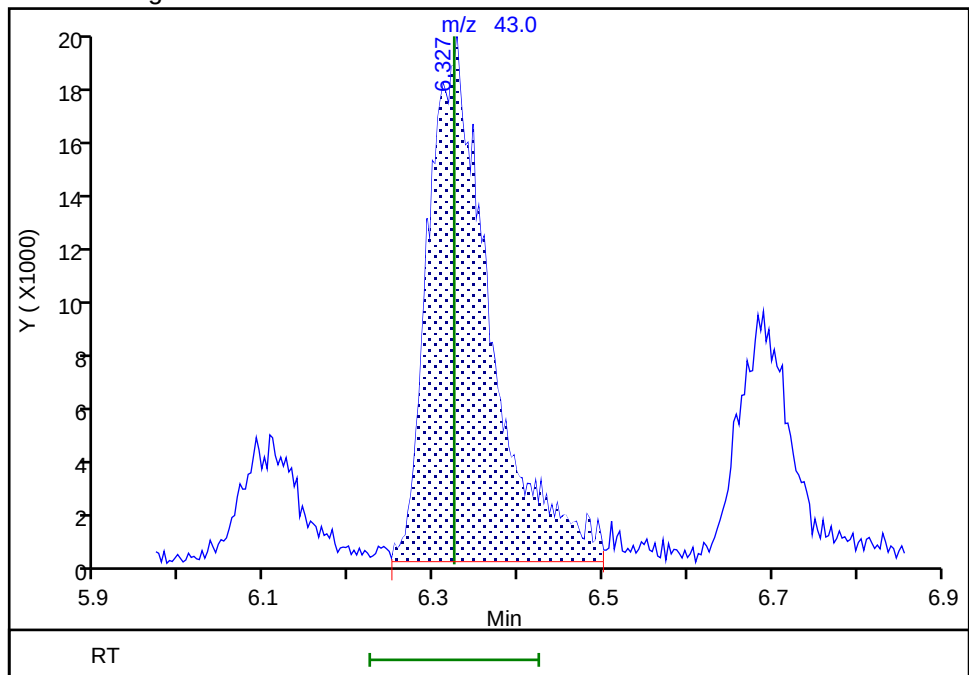
RT: 6.33
Area: 99501
Amount: 20.975039
Amount Units: ug/l

Processing Integration Results



RT: 6.33
Area: 96116
Amount: 19.681417
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:57:08 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

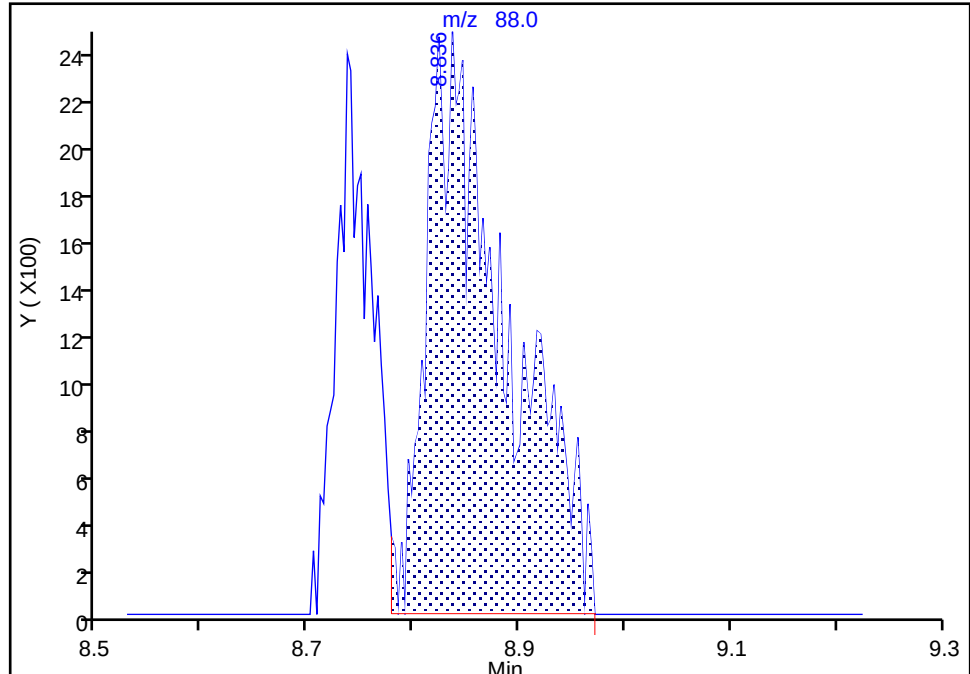
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Injection Date: 03-Jun-2024 21:44:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: mec29284 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

75 1,4-Dioxane, CAS: 123-91-1

Signal: 1

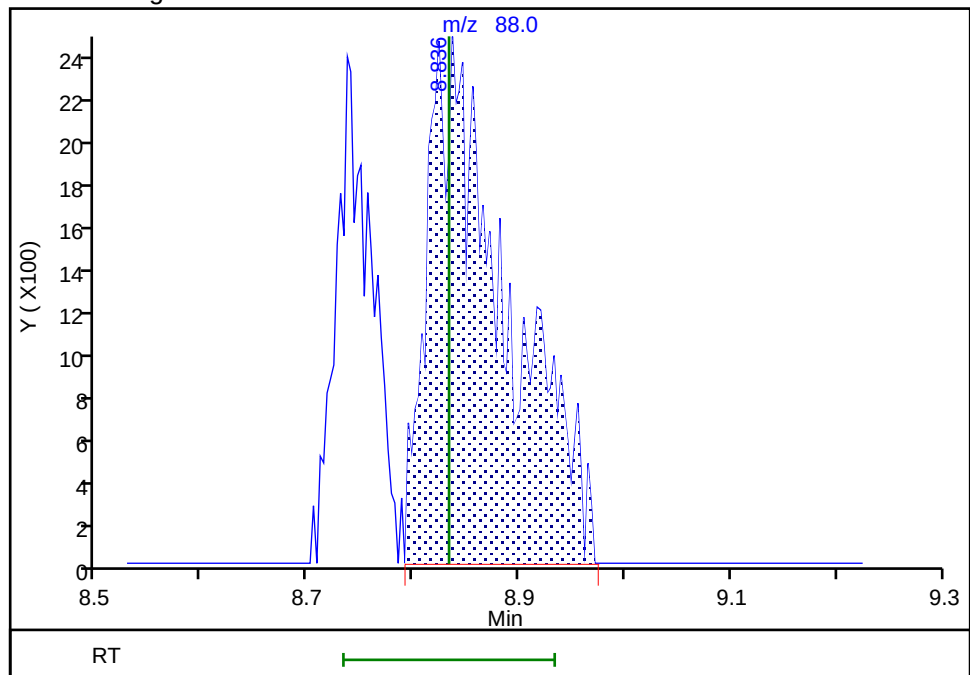
RT: 8.84
Area: 12642
Amount: 65.162172
Amount Units: ug/l

Processing Integration Results



RT: 8.84
Area: 12469
Amount: 121.9468
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:57:26 -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\9137\20240603-115635.b\WU03X14.D
 Lims ID: IC v20
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 03-Jun-2024 22:06:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0115635-015
 Misc. Info.: LG 20
 Operator ID: mec29284 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub73
 Method: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-Jun-2024 13:25:39 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1676

First Level Reviewer: K4WN

Date: 03-Jun-2024 23:59:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.027	2.027	0.000	99	278174	20.0	20.9	
7 Chloromethane	50	2.232	2.229	0.003	99	237476	20.0	20.3	
8 Vinyl chloride	62	2.348	2.354	-0.006	98	247536	20.0	20.8	
9 Butadiene	39	2.377	2.377	0.000	91	243213	20.0	20.4	
11 Bromomethane	94	2.714	2.720	-0.006	90	149713	20.0	18.7	
12 Chloroethane	64	2.797	2.800	-0.003	100	118102	20.0	20.2	
13 Dichlorofluoromethane	67	3.073	3.073	0.000	97	334154	20.0	20.2	
14 Trichlorofluoromethane	101	3.137	3.137	0.000	89	276493	20.0	20.7	
15 Pentane	43	3.160	3.160	0.000	99	214510	20.0	21.3	
17 Ethanol	45	3.285	3.285	0.000	80	79316	1000.0	1009.8	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.487	3.494	-0.007	92	167966	20.0	19.8	
19 Acrolein	56	3.567	3.574	-0.007	98	362197	200.4	208.8	M
21 1,1-Dichloroethene	96	3.718	3.728	-0.010	96	125669	20.0	21.2	
20 Acetone	58	3.753	3.750	0.003	53	36635	40.0	41.3	M
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.760	3.757	0.003	92	153887	20.0	21.6	
25 Iodomethane	142	3.936	3.930	0.006	99	240038	20.0	21.1	
23 Isopropyl alcohol	45	3.968	3.930	0.038	34	60638	100.0	106.6	M
26 Carbon disulfide	76	4.071	4.068	0.003	99	419851	20.0	21.3	
28 Methyl acetate	43	4.190	4.193	-0.003	97	125475	20.0	20.3	
27 3-Chloro-1-propene	41	4.212	4.216	-0.004	91	165753	20.0	21.0	
30 Methylene Chloride	84	4.427	4.424	0.003	89	130036	20.0	20.4	
* 32 t-Butyl alcohol-d10 (IS)	65	4.466	4.485	-0.019	46	275640	250.0	250.0	
33 2-Methyl-2-propanol	59	4.604	4.575	0.029	28	124649	100.0	107.0	M
34 Acrylonitrile	53	4.780	4.777	0.003	99	182203	50.0	50.1	
36 Methyl tert-butyl ether	73	4.832	4.832	0.000	95	391327	20.0	20.8	
35 trans-1,2-Dichloroethene	96	4.835	4.835	0.000	99	114052	20.0	21.3	
37 Hexane	57	5.262	5.265	-0.003	92	161732	20.0	21.4	
38 1,1-Dichloroethane	63	5.509	5.509	0.000	97	197467	20.0	21.5	
40 Isopropyl ether	45	5.557	5.563	-0.006	94	350748	20.0	20.7	
41 2-Chloro-1,3-butadiene	53	5.618	5.615	0.003	92	182253	20.0	21.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Tert-butyl ethyl ether	59	6.096	6.099	-0.003	96	365719	20.0	21.2	
S 80 1,2-Dichloroethene, Total	100				0			42.5	
44 2-Butanone (MEK)	43	6.321	6.324	-0.003	98	181298	40.0	37.6	
43 cis-1,2-Dichloroethene	96	6.343	6.343	0.000	81	126610	20.0	21.2	
45 2,2-Dichloropropane	77	6.369	6.366	0.003	88	218174	20.0	21.2	
47 Propionitrile	54	6.430	6.417	0.013	93	147678	100.0	104.0	
48 Methyl acrylate	55	6.436	6.443	-0.007	98	171128	20.0	19.4	
49 Methacrylonitrile	67	6.629	6.635	-0.006	91	177269	50.0	49.3	
50 Chlorobromomethane	128	6.680	6.670	0.010	91	64445	20.0	21.2	
51 Tetrahydrofuran	71	6.683	6.690	-0.007	91	140426	100.0	108.6	
52 Chloroform	83	6.824	6.831	-0.007	95	216934	20.0	21.2	
\$ 54 Dibromofluoromethane (Surr)	113	7.043	7.043	0.000	92	239729	50.0	49.8	
55 1,1,1-Trichloroethane	97	7.055	7.052	0.003	96	213890	20.0	21.2	
56 Cyclohexane	56	7.148	7.149	-0.001	90	251312	20.0	21.5	
58 Carbon tetrachloride	117	7.264	7.261	0.003	91	184268	20.0	21.4	
57 1,1-Dichloropropene	75	7.264	7.264	0.000	94	169560	20.0	21.5	
59 Isobutyl alcohol	41	7.428	7.428	0.000	90	100381	250.0	256.3	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.501	7.505	-0.004	70	61445	50.0	50.9	
61 Benzene	78	7.530	7.530	0.000	97	475276	20.0	21.4	
62 1,2-Dichloroethane	62	7.601	7.604	-0.003	97	152742	20.0	20.6	
64 Tert-amyl methyl ether	73	7.713	7.717	-0.003	98	380597	20.0	21.6	
* 65 Fluorobenzene (IS)	96	7.935	7.935	0.000	98	967067	50.0	50.0	
66 n-Heptane	43	7.938	7.938	0.000	47	141055	20.0	20.9	
67 n-Butanol	56	8.307	8.301	0.006	91	79644	250.0	245.3	
68 Trichloroethene	95	8.406	8.406	0.000	98	124336	20.0	21.0	
69 Ethyl acrylate	55	8.528	8.525	0.003	99	178273	20.0	19.6	
70 Methylcyclohexane	83	8.714	8.714	0.000	91	238277	20.0	21.5	
72 2-ethoxy-2-methyl butane	87	8.746	8.750	-0.004	92	182493	20.0	20.5	
71 1,2-Dichloropropane	63	8.750	8.753	-0.003	76	114768	20.0	20.6	
74 Methyl methacrylate	69	8.824	8.827	-0.003	91	102339	20.0	19.6	
75 1,4-Dioxane	88	8.846	8.833	0.013	61	20872	250.0	264.4	M
73 Dibromomethane	93	8.856	8.859	-0.003	96	82100	20.0	20.9	
77 Dichlorobromomethane	83	9.093	9.090	0.003	99	140828	20.0	20.6	
78 2-Nitropropane	41	9.369	9.369	0.000	99	253133	100.0	106.2	
79 2-Chloroethyl vinyl ether	63	9.440	9.443	-0.003	92	78268	20.0	19.9	
81 cis-1,3-Dichloropropene	75	9.623	9.623	0.000	95	170107	20.0	20.2	
83 4-Methyl-2-pentanone (MIBK)	43	9.796	9.796	0.000	97	370444	40.0	40.0	
\$ 84 Toluene-d8 (Surr)	98	9.921	9.921	0.000	95	991446	50.0	49.9	
85 Toluene	92	9.995	9.995	0.000	98	298376	20.0	21.2	
S 162 1,3-Dichloropropene, Total	100				0			40.6	
86 trans-1,3-Dichloropropene	75	10.248	10.245	0.003	94	153727	20.0	20.4	
87 Ethyl methacrylate	69	10.306	10.306	0.000	89	180756	20.0	20.3	
88 1,1,2-Trichloroethane	97	10.447	10.447	0.000	92	100831	20.0	20.3	
90 Tetrachloroethene	166	10.531	10.528	0.003	96	130150	20.0	21.0	
91 1,3-Dichloropropane	76	10.608	10.611	-0.003	91	166919	20.0	20.9	
94 2-Hexanone	43	10.659	10.659	0.000	96	252671	40.0	40.6	
96 Chlorodibromomethane	129	10.816	10.816	0.000	90	111594	20.0	20.8	
98 Ethylene Dibromide	107	10.929	10.929	0.000	98	108978	20.0	20.7	
S 178 Xylenes, Total	106				0			63.7	
* 101 Chlorobenzene-d5 (IS)	117	11.352	11.352	0.000	85	725305	50.0	50.0	
103 1-Chlorohexane	91	11.355	11.359	-0.004	97	161603	20.0	20.8	
102 Chlorobenzene	112	11.378	11.378	0.000	96	315279	20.0	20.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 1,1,1,2-Tetrachloroethane	131	11.458	11.458	0.000	94	127615	20.0	20.8	
105 Ethylbenzene	91	11.461	11.461	0.000	98	590937	20.0	21.3	
106 m-Xylene & p-Xylene	106	11.574	11.574	0.000	98	464003	40.0	42.3	
107 n-Butyl acrylate	55	11.850	11.846	0.004	96	253811	20.0	20.5	
108 o-Xylene	106	11.904	11.901	0.003	96	248402	20.0	21.4	
109 Styrene	104	11.917	11.917	0.000	94	355046	20.0	20.8	
110 Bromoform	173	12.071	12.074	-0.003	96	81557	20.0	20.0	
111 Isopropylbenzene	105	12.199	12.199	0.000	96	622874	20.0	21.6	
113 Cyclohexanone	55	12.283	12.286	-0.003	93	167786	500.0	511.3	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.344	12.344	0.000	90	361543	50.0	50.1	
116 1,1,2,2-Tetrachloroethane	83	12.446	12.443	0.003	95	198086	20.0	20.7	
115 Bromobenzene	156	12.462	12.462	0.000	95	140520	20.0	20.8	
119 trans-1,4-Dichloro-2-butene	53	12.472	12.469	0.003	91	144593	50.0	51.7	
118 1,2,3-Trichloropropane	110	12.495	12.495	-0.001	86	62841	20.0	20.5	
120 N-Propylbenzene	91	12.527	12.527	0.000	98	725846	20.0	21.8	
121 2-Chlorotoluene	126	12.604	12.604	0.000	97	152082	20.0	21.1	
122 1,3,5-Trimethylbenzene	105	12.658	12.661	-0.003	95	543240	20.0	21.4	
123 4-Chlorotoluene	126	12.697	12.697	0.000	97	141233	20.0	20.8	
125 tert-Butylbenzene	134	12.905	12.905	0.000	92	104782	20.0	21.1	
127 1,2,4-Trimethylbenzene	105	12.944	12.947	-0.003	97	554592	20.0	21.4	
128 sec-Butylbenzene	105	13.066	13.066	0.000	94	665960	20.0	21.6	
131 1,3-Dichlorobenzene	146	13.168	13.165	0.003	97	279965	20.0	21.2	
132 4-Isopropyltoluene	119	13.172	13.172	0.000	97	583908	20.0	21.2	
* 133 1,4-Dichlorobenzene-d4	152	13.220	13.220	0.000	95	438014	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.239	13.239	0.000	95	280290	20.0	20.9	
148 1,2,3-Trimethylbenzene	105	13.249	13.252	-0.003	98	579731	20.0	21.2	
170 Benzyl chloride	91	13.319	13.316	0.003	98	405078	20.0	20.9	
171 1,3-Diethylbenzene	119	13.371	13.371	0.000	95	346573	20.0	21.2	
172 p-Diethylbenzene	119	13.444	13.444	0.000	94	359516	20.0	21.5	
173 n-Butylbenzene	92	13.464	13.467	-0.003	97	276119	20.0	21.4	
174 1,2-Dichlorobenzene	146	13.502	13.502	0.000	98	291933	20.0	20.7	
175 o-diethylbenzene	119	13.518	13.518	0.000	95	287826	20.0	21.2	
176 1,2-Dibromo-3-Chloropropane	75	14.041	14.044	-0.003	85	58476	20.0	19.8	
177 1,3,5-Trichlorobenzene	180	14.163	14.166	-0.003	97	215880	20.0	21.4	
179 1,2,4-Trichlorobenzene	180	14.590	14.590	0.000	94	215808	20.0	21.3	
181 2-Ethylhexyl acrylate	55	14.648	14.645	0.003	81	196418	20.0	19.9	
180 Hexachlorobutadiene	225	14.670	14.670	0.000	97	74144	20.0	21.3	
182 Naphthalene	128	14.776	14.776	0.000	97	854723	20.0	21.3	
183 1,2,3-Trichlorobenzene	180	14.920	14.921	0.000	96	217689	20.0	21.3	
184 2-Methylnaphthalene	142	15.569	15.569	0.000	91	469667	20.0	21.2	
S 205 Total Diethylbenzene	1				0			63.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00186	Amount Added: 4.00	Units: uL	
MSV_CCV_CYC_00008	Amount Added: 16.00	Units: uL	
MSV_CCV_VOC#3_00182	Amount Added: 3.20	Units: uL	
MSV_CCV_2CEVE_00178	Amount Added: 4.00	Units: uL	
MSV_CCV_ETOH_00006	Amount Added: 16.00	Units: uL	
MSV_CCV_GASES_00782	Amount Added: 2.00	Units: uL	
MSV_CCV_OH_Sp_00010	Amount Added: 4.00	Units: uL	
MSV_Cent_ISSS_00026	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 04-Jun-2024 13:25:40

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X14.D

Injection Date: 03-Jun-2024 22:06:30

Instrument ID: 9137

Operator ID: mec29284

Lims ID: IC v20

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

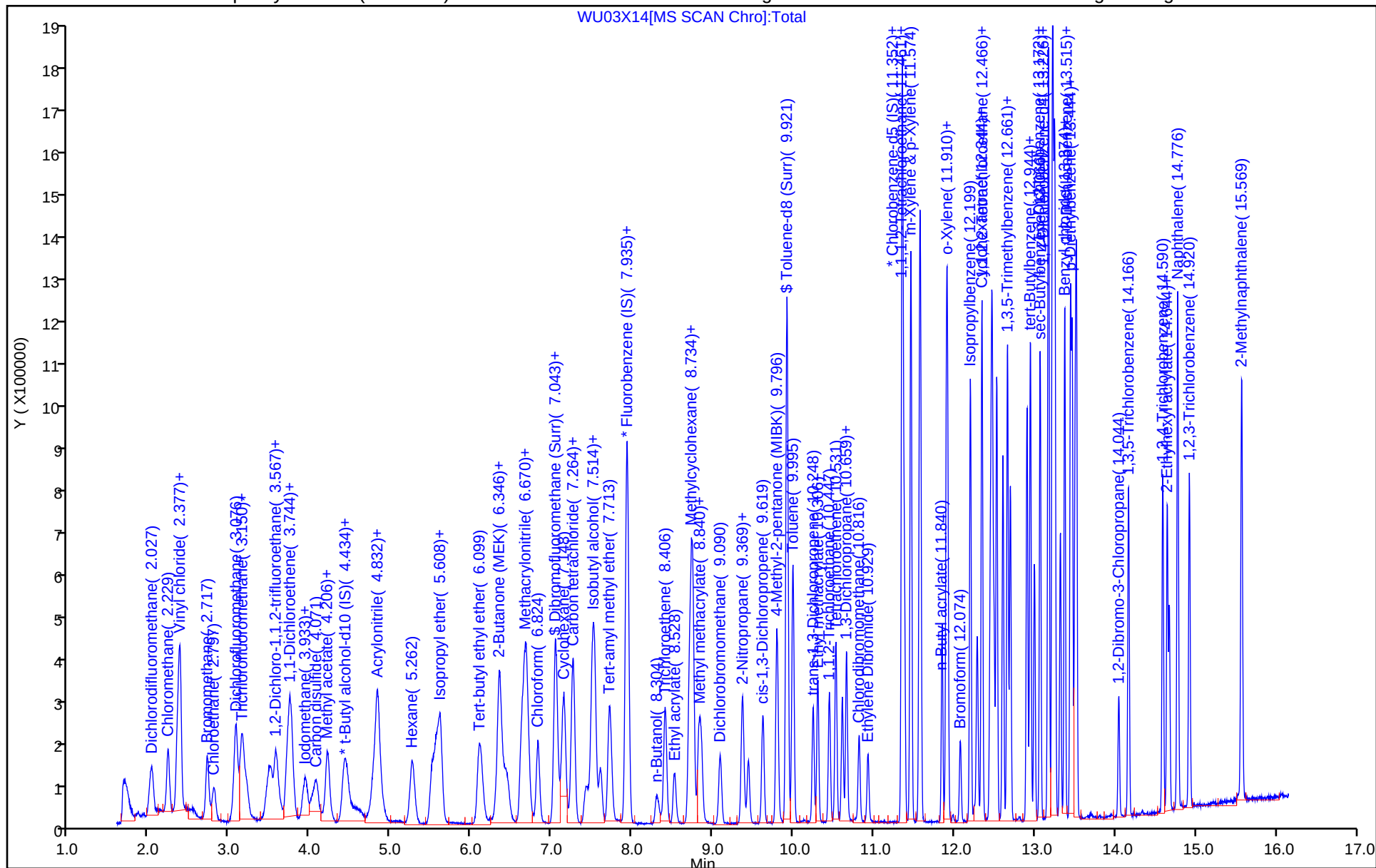
ALS Bottle#: 14

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

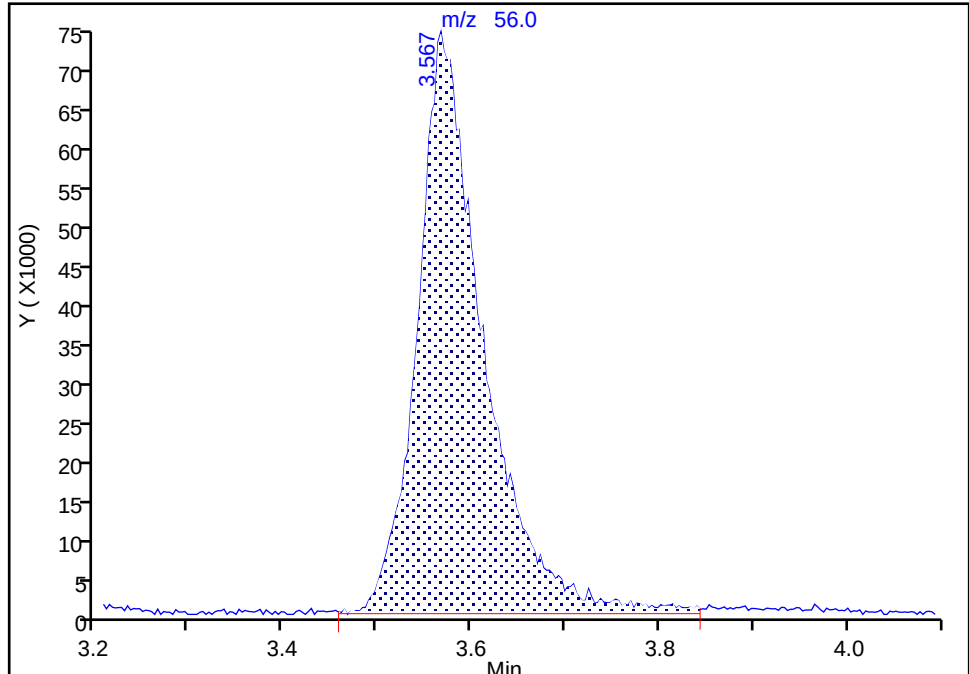
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Injection Date: 03-Jun-2024 22:06:30 Instrument ID: 9137
Lims ID: IC v20
Client ID:
Operator ID: mec29284 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

19 Acrolein, CAS: 107-02-8

Signal: 1

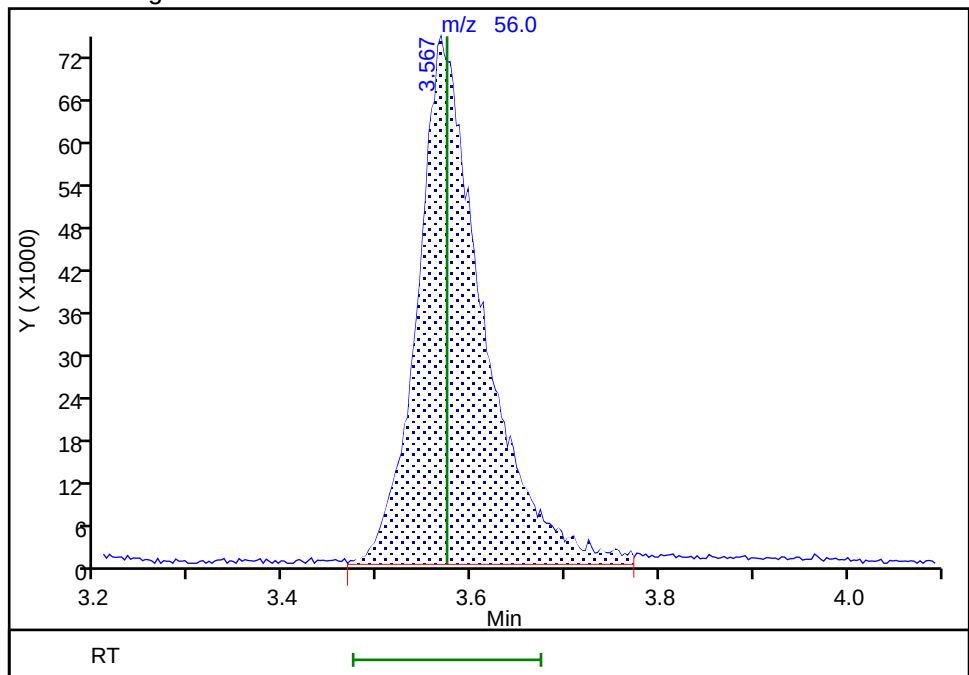
RT: 3.57
Area: 367086
Amount: 211.1977
Amount Units: ug/l

Processing Integration Results



RT: 3.57
Area: 362197
Amount: 208.8035
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 04-Jun-2024 00:25:10 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

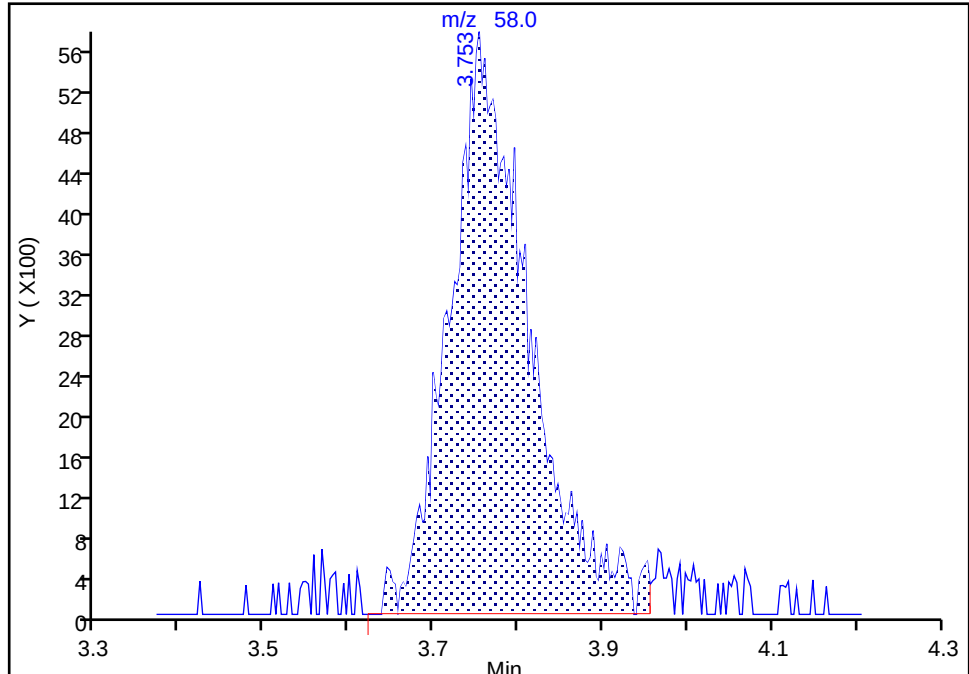
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Injection Date: 03-Jun-2024 22:06:30 Instrument ID: 9137
Lims ID: IC v20
Client ID:
Operator ID: mec29284 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

20 Acetone, CAS: 67-64-1

Signal: 1

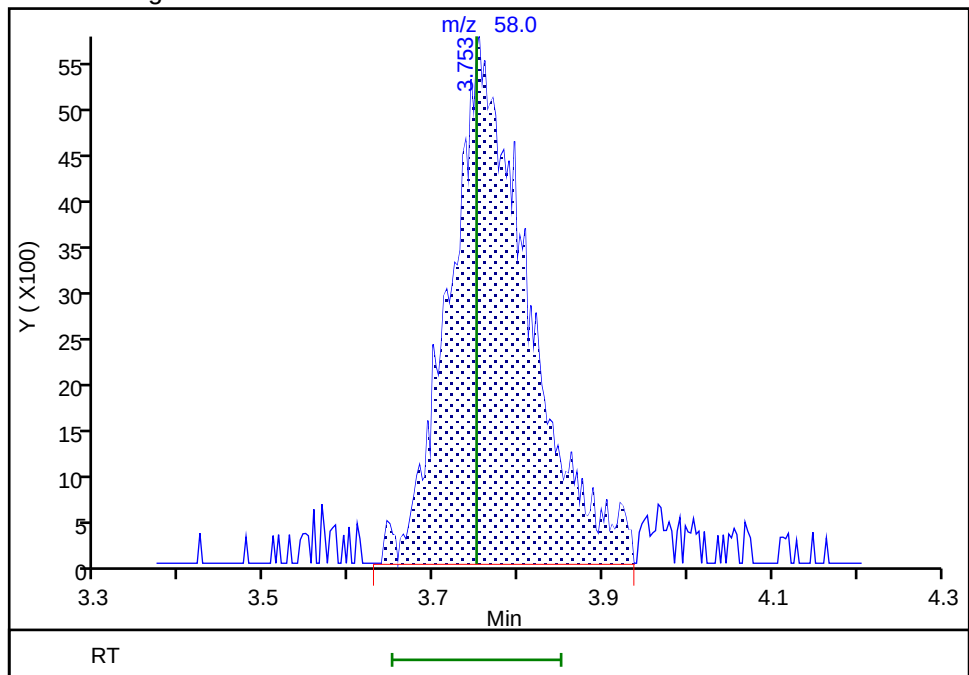
RT: 3.75
Area: 37029
Amount: 42.089611
Amount Units: ug/l

Processing Integration Results



RT: 3.75
Area: 36635
Amount: 41.315643
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:58:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

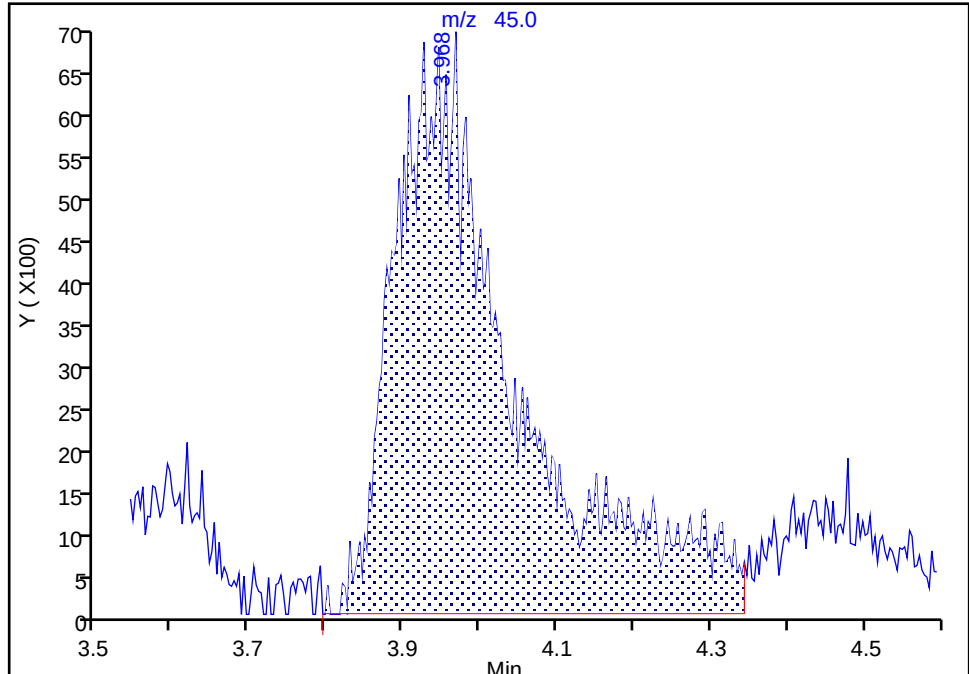
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Injection Date: 03-Jun-2024 22:06:30 Instrument ID: 9137
Lims ID: IC v20
Client ID:
Operator ID: mec29284 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

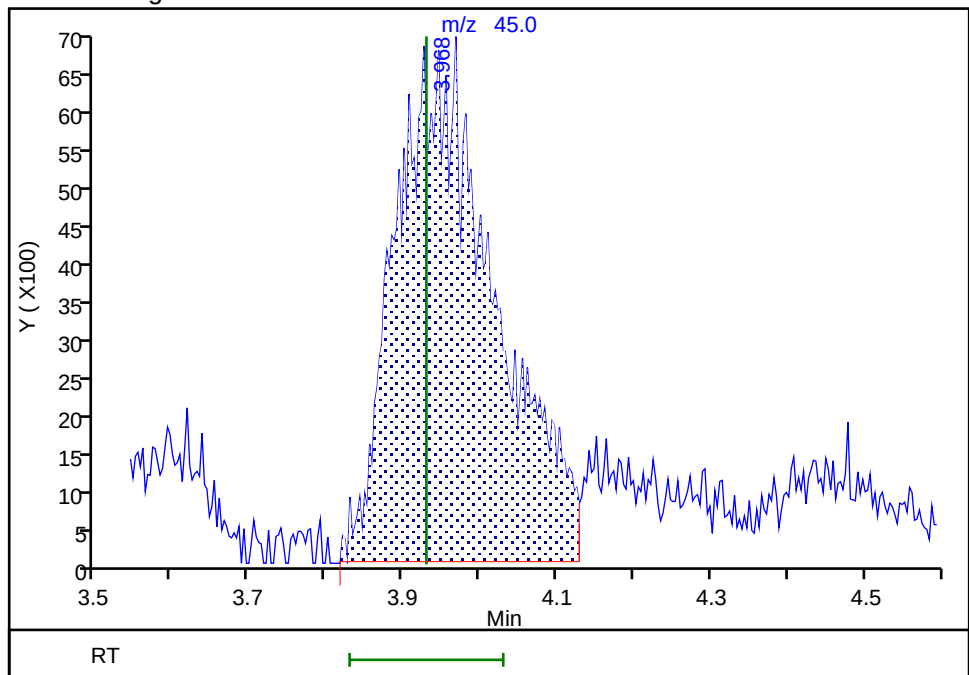
RT: 3.97
Area: 73308
Amount: 118.1750
Amount Units: ug/l

Processing Integration Results



RT: 3.97
Area: 60638
Amount: 106.5967
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 04-Jun-2024 00:09:43 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

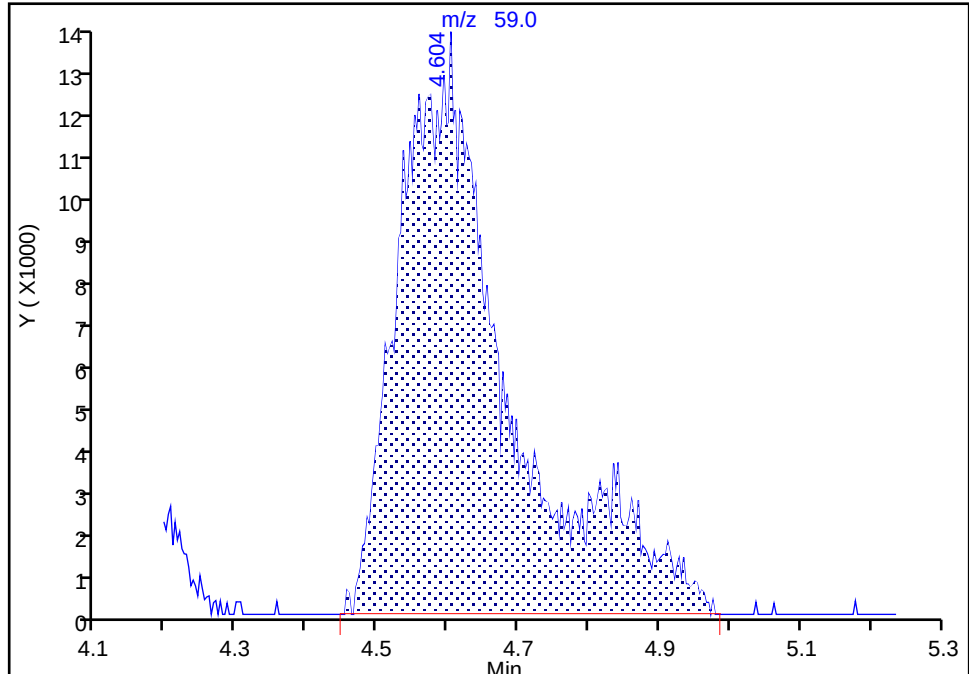
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X14.D
Injection Date: 03-Jun-2024 22:06:30 Instrument ID: 9137
Lims ID: IC v20
Client ID:
Operator ID: mec29284 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

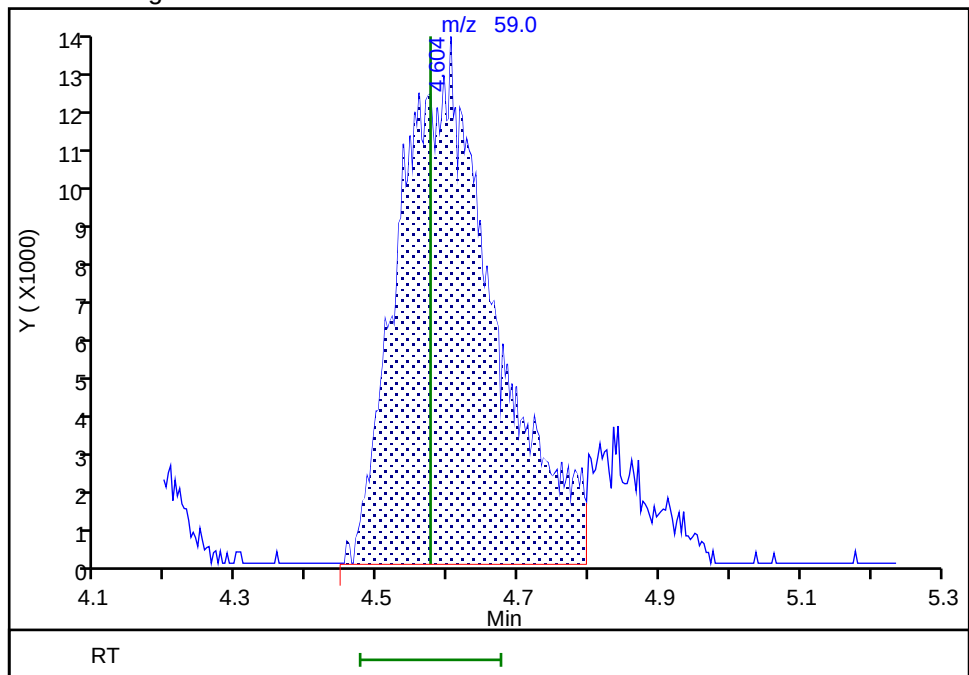
RT: 4.60
Area: 142244
Amount: 116.3097
Amount Units: ug/l

Processing Integration Results



RT: 4.60
Area: 124649
Amount: 107.0369
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:58:22 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

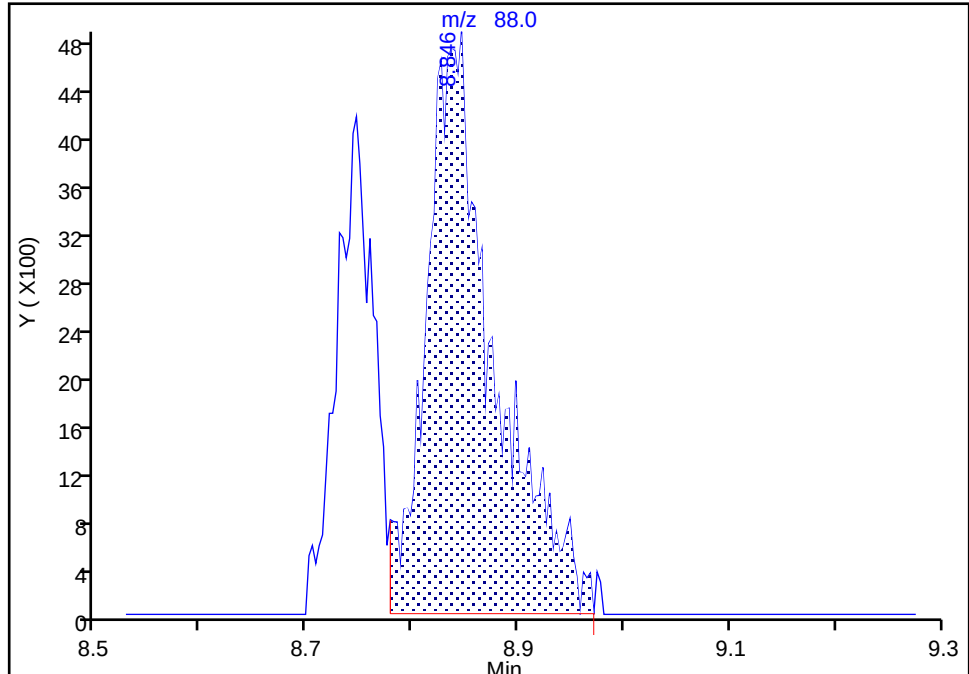
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X14.D
Injection Date: 03-Jun-2024 22:06:30 Instrument ID: 9137
Lims ID: IC v20
Client ID:
Operator ID: mec29284 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

75 1,4-Dioxane, CAS: 123-91-1

Signal: 1

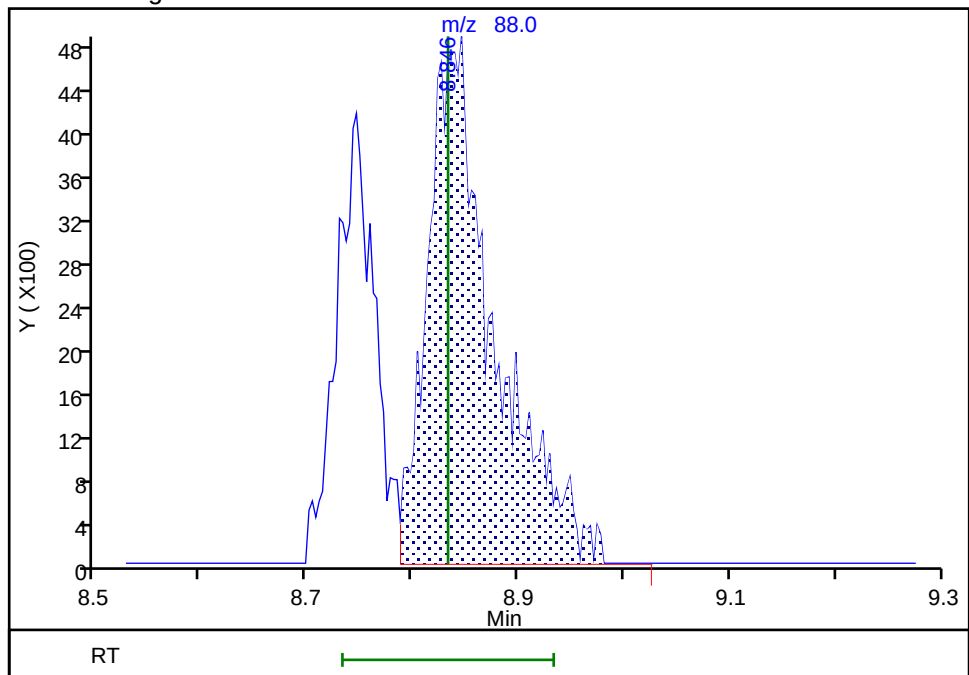
RT: 8.85
Area: 21198
Amount: 287.8723
Amount Units: ug/l

Processing Integration Results



RT: 8.85
Area: 20872
Amount: 264.3771
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 23:58:46 -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\9137\20240603-115635.b\WU03X15.D
 Lims ID: ICIS v50
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 03-Jun-2024 22:27:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0115635-016
 Misc. Info.: LG 50
 Operator ID: mec29284 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub73
 Method: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-Jun-2024 13:25:44 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1676

First Level Reviewer: K4WN

Date: 03-Jun-2024 23:11:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.027	2.027	0.000	99	699220	50.0	49.3	
7 Chloromethane	50	2.229	2.229	0.000	99	571704	50.0	45.9	
8 Vinyl chloride	62	2.354	2.354	0.000	98	610516	50.0	48.3	
9 Butadiene	39	2.377	2.377	0.000	91	612859	50.0	48.3	
11 Bromomethane	94	2.720	2.720	0.000	90	380997	50.0	44.7	
12 Chloroethane	64	2.800	2.800	0.000	99	296800	50.0	47.7	
13 Dichlorofluoromethane	67	3.073	3.073	0.000	97	830417	50.0	47.2	
14 Trichlorofluoromethane	101	3.137	3.137	0.000	97	700641	50.0	49.3	
15 Pentane	43	3.160	3.160	0.000	96	533770	50.0	49.9	
17 Ethanol	45	3.285	3.285	0.000	79	104714	1250.0	1250.9	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.494	3.494	0.000	93	424578	50.0	47.1	
19 Acrolein	56	3.574	3.574	0.000	100	940822	501.1	508.9	
21 1,1-Dichloroethene	96	3.728	3.728	0.000	98	310589	50.0	49.2	
20 Acetone	58	3.750	3.750	0.000	64	102809	100.0	108.8	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.757	3.757	0.000	93	390402	50.0	51.6	
25 Iodomethane	142	3.930	3.930	0.000	98	596700	50.0	49.4	
23 Isopropyl alcohol	45	3.930	3.930	0.000	35	150079	250.0	247.6	
26 Carbon disulfide	76	4.068	4.068	0.000	100	1052107	50.0	50.3	
28 Methyl acetate	43	4.193	4.193	0.000	98	320403	50.0	48.8	
27 3-Chloro-1-propene	41	4.216	4.216	0.000	90	410996	50.0	49.1	
30 Methylene Chloride	84	4.424	4.424	0.000	92	323425	50.0	47.6	
* 32 t-Butyl alcohol-d10 (IS)	65	4.453	4.453	0.000	41	293746	250.0	250.0	
33 2-Methyl-2-propanol	59	4.575	4.575	0.000	97	305640	250.0	246.3	
34 Acrylonitrile	53	4.777	4.777	0.000	100	436374	125.0	112.8	
36 Methyl tert-butyl ether	73	4.832	4.832	0.000	96	974075	50.0	48.7	
35 trans-1,2-Dichloroethene	96	4.835	4.835	0.000	98	283499	50.0	49.8	
37 Hexane	57	5.265	5.265	0.000	91	406489	50.0	50.6	
38 1,1-Dichloroethane	63	5.509	5.509	0.000	96	492720	50.0	50.5	
40 Isopropyl ether	45	5.563	5.563	0.000	93	883207	50.0	48.9	
41 2-Chloro-1,3-butadiene	53	5.615	5.615	0.000	92	451689	50.0	50.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Tert-butyl ethyl ether	59	6.099	6.099	0.000	96	901359	50.0	49.2	
44 2-Butanone (MEK)	43	6.324	6.324	0.000	100	461426	100.0	90.0	
43 cis-1,2-Dichloroethene	96	6.343	6.343	0.000	82	310396	50.0	48.8	
45 2,2-Dichloropropane	77	6.366	6.366	0.000	89	541500	50.0	49.5	
47 Propionitrile	54	6.417	6.417	0.000	95	387600	250.0	256.1	
48 Methyl acrylate	55	6.443	6.443	0.000	100	443093	50.0	47.1	
49 Methacrylonitrile	67	6.635	6.635	0.000	91	449250	125.0	117.6	
50 Chlorobromomethane	128	6.670	6.670	0.000	91	160414	50.0	49.7	
51 Tetrahydrofuran	71	6.690	6.690	0.000	86	349618	250.0	253.8	
52 Chloroform	83	6.831	6.831	0.000	94	509209	50.0	49.1	
\$ 54 Dibromofluoromethane (Surr)	113	7.043	7.043	0.000	93	254868	50.0	49.7	
55 1,1,1-Trichloroethane	97	7.052	7.052	0.000	98	541911	50.0	50.5	
56 Cyclohexane	56	7.149	7.149	0.000	90	630906	50.0	50.9	
58 Carbon tetrachloride	117	7.261	7.261	0.000	87	469411	50.0	51.3	
57 1,1-Dichloropropene	75	7.264	7.264	0.000	96	421579	50.0	50.2	
59 Isobutyl alcohol	41	7.428	7.428	0.000	93	257929	625.0	617.9	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.505	7.505	0.000	69	62277	50.0	48.5	
61 Benzene	78	7.530	7.530	0.000	96	1185138	50.0	50.2	
62 1,2-Dichloroethane	62	7.604	7.604	0.000	98	395659	50.0	50.2	
64 Tert-amyl methyl ether	73	7.717	7.717	0.000	98	920611	50.0	49.1	
* 65 Fluorobenzene (IS)	96	7.935	7.935	0.000	99	1028435	50.0	50.0	
66 n-Heptane	43	7.938	7.938	0.000	94	368186	50.0	51.4	
67 n-Butanol	56	8.301	8.301	0.000	91	206680	625.0	597.4	
68 Trichloroethene	95	8.406	8.406	0.000	97	313541	50.0	49.7	
69 Ethyl acrylate	55	8.525	8.525	0.000	99	452045	50.0	46.7	
70 Methylcyclohexane	83	8.714	8.714	0.000	90	621433	50.0	52.7	
72 2-ethoxy-2-methyl butane	87	8.750	8.750	0.000	93	465981	50.0	49.2	
71 1,2-Dichloropropane	63	8.753	8.753	0.000	69	295325	50.0	49.9	
74 Methyl methacrylate	69	8.827	8.827	0.000	90	264829	50.0	47.6	
75 1,4-Dioxane	88	8.833	8.833	0.000	34	53795	625.0	639.4	
73 Dibromomethane	93	8.859	8.859	0.000	94	205303	50.0	49.1	
77 Dichlorobromomethane	83	9.090	9.090	0.000	99	362191	50.0	49.7	
78 2-Nitropropane	41	9.369	9.369	0.000	99	663107	250.0	261.1	
79 2-Chloroethyl vinyl ether	63	9.443	9.443	0.000	93	205191	50.0	49.1	
81 cis-1,3-Dichloropropene	75	9.623	9.623	0.000	96	449673	50.0	50.2	
83 4-Methyl-2-pentanone (MIBK)	43	9.796	9.796	0.000	96	967261	100.0	98.3	
\$ 84 Toluene-d8 (Surr)	98	9.921	9.921	0.000	93	1056521	50.0	50.3	
85 Toluene	92	9.995	9.995	0.000	98	754177	50.0	50.6	
86 trans-1,3-Dichloropropene	75	10.245	10.245	0.000	93	403263	50.0	50.5	
87 Ethyl methacrylate	69	10.306	10.306	0.000	89	463320	50.0	49.2	
88 1,1,2-Trichloroethane	97	10.447	10.447	0.000	91	264624	50.0	50.4	
90 Tetrachloroethene	166	10.528	10.528	0.000	97	340725	50.0	51.9	
91 1,3-Dichloropropane	76	10.611	10.611	0.000	91	428281	50.0	50.6	
94 2-Hexanone	43	10.659	10.659	0.000	96	649857	100.0	98.7	
96 Chlorodibromomethane	129	10.816	10.816	0.000	90	289226	50.0	51.0	
98 Ethylene Dibromide	107	10.929	10.929	0.000	99	281466	50.0	50.6	
* 101 Chlorobenzene-d5 (IS)	117	11.352	11.352	0.000	85	766952	50.0	50.0	
103 1-Chlorohexane	91	11.359	11.359	0.000	98	411835	50.0	50.1	
102 Chlorobenzene	112	11.378	11.378	0.000	96	809345	50.0	50.7	
104 1,1,1,2-Tetrachloroethane	131	11.458	11.458	0.000	95	333674	50.0	51.4	
105 Ethylbenzene	91	11.461	11.461	0.000	98	1520196	50.0	51.7	
106 m-Xylene & p-Xylene	106	11.574	11.574	0.000	98	1207094	100.0	104.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 n-Butyl acrylate	55	11.846	11.846	0.000	97	650682	50.0	49.6	
108 o-Xylene	106	11.901	11.901	0.000	96	647400	50.0	52.7	
109 Styrene	104	11.917	11.917	0.000	94	917595	50.0	50.8	
110 Bromoform	173	12.074	12.074	0.000	96	219626	50.0	51.0	
111 Isopropylbenzene	105	12.199	12.199	0.000	96	1612647	50.0	52.8	
113 Cyclohexanone	55	12.286	12.286	0.000	93	218593	625.0	625.0	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.344	12.344	0.000	90	379101	50.0	49.7	
116 1,1,2,2-Tetrachloroethane	83	12.443	12.443	0.000	95	500093	50.0	50.1	
115 Bromobenzene	156	12.462	12.462	0.000	96	353375	50.0	50.3	
119 trans-1,4-Dichloro-2-butene	53	12.469	12.469	0.000	86	365607	125.0	125.5	
118 1,2,3-Trichloropropane	110	12.495	12.495	0.000	85	156455	50.0	49.1	
120 N-Propylbenzene	91	12.527	12.527	0.000	98	1833669	50.0	52.8	
121 2-Chlorotoluene	126	12.604	12.604	0.000	97	381728	50.0	50.9	
122 1,3,5-Trimethylbenzene	105	12.661	12.661	0.000	95	1407192	50.0	53.3	
123 4-Chlorotoluene	126	12.697	12.697	0.000	97	358161	50.0	50.7	
125 tert-Butylbenzene	134	12.905	12.905	0.000	93	280398	50.0	54.3	
127 1,2,4-Trimethylbenzene	105	12.947	12.947	0.000	98	1425568	50.0	52.8	
128 sec-Butylbenzene	105	13.066	13.066	0.000	94	1771145	50.0	55.1	
131 1,3-Dichlorobenzene	146	13.165	13.165	0.000	98	695683	50.0	50.7	
132 4-Isopropyltoluene	119	13.172	13.172	0.000	97	1553183	50.0	54.2	
* 133 1,4-Dichlorobenzene-d4	152	13.220	13.220	0.000	94	455968	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.239	13.239	0.000	95	706258	50.0	50.6	
148 1,2,3-Trimethylbenzene	105	13.252	13.252	0.000	98	1509336	50.0	52.9	
170 Benzyl chloride	91	13.316	13.316	0.000	98	1052922	50.0	52.3	
171 1,3-Diethylbenzene	119	13.371	13.371	0.000	95	906468	50.0	53.3	
172 p-Diethylbenzene	119	13.444	13.444	0.000	94	929890	50.0	53.4	
173 n-Butylbenzene	92	13.467	13.467	0.000	97	724864	50.0	54.0	
174 1,2-Dichlorobenzene	146	13.502	13.502	0.000	98	743680	50.0	50.7	
175 o-diethylbenzene	119	13.518	13.518	0.000	95	754156	50.0	53.4	
176 1,2-Dibromo-3-Chloropropane	75	14.044	14.044	0.000	88	148902	50.0	48.4	
177 1,3,5-Trichlorobenzene	180	14.166	14.166	0.000	97	537790	50.0	51.3	
179 1,2,4-Trichlorobenzene	180	14.590	14.590	0.000	94	535003	50.0	50.8	
181 2-Ethylhexyl acrylate	55	14.645	14.645	0.000	81	531818	50.0	51.7	
180 Hexachlorobutadiene	225	14.670	14.670	0.000	97	193054	50.0	53.3	
182 Naphthalene	128	14.776	14.776	0.000	97	2103730	50.0	50.4	
183 1,2,3-Trichlorobenzene	180	14.921	14.921	0.000	95	534858	50.0	50.4	
184 2-Methylnaphthalene	142	15.569	15.569	0.000	93	1190894	50.0	51.7	

QC Flag Legend

Processing Flags

Reagents:

MSV_CCV_VOC#1_00186	Amount Added: 5.00	Units: uL	
MSV_CCV_CYC_00008	Amount Added: 10.00	Units: uL	
MSV_CCV_VOC#3_00182	Amount Added: 4.00	Units: uL	
MSV_CCV_2CEVE_00178	Amount Added: 5.00	Units: uL	
MSV_CCV_ETOH_00006	Amount Added: 10.00	Units: uL	
MSV_CCV_GASES_00782	Amount Added: 2.50	Units: uL	
MSV_CCV_OH_Sp_00010	Amount Added: 5.00	Units: uL	
MSV_Cent_ISSS_00026	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 04-Jun-2024 13:25:45

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X15.D

Injection Date: 03-Jun-2024 22:27:30

Instrument ID: 9137

Operator ID: mec29284

Lims ID: ICIS v50

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

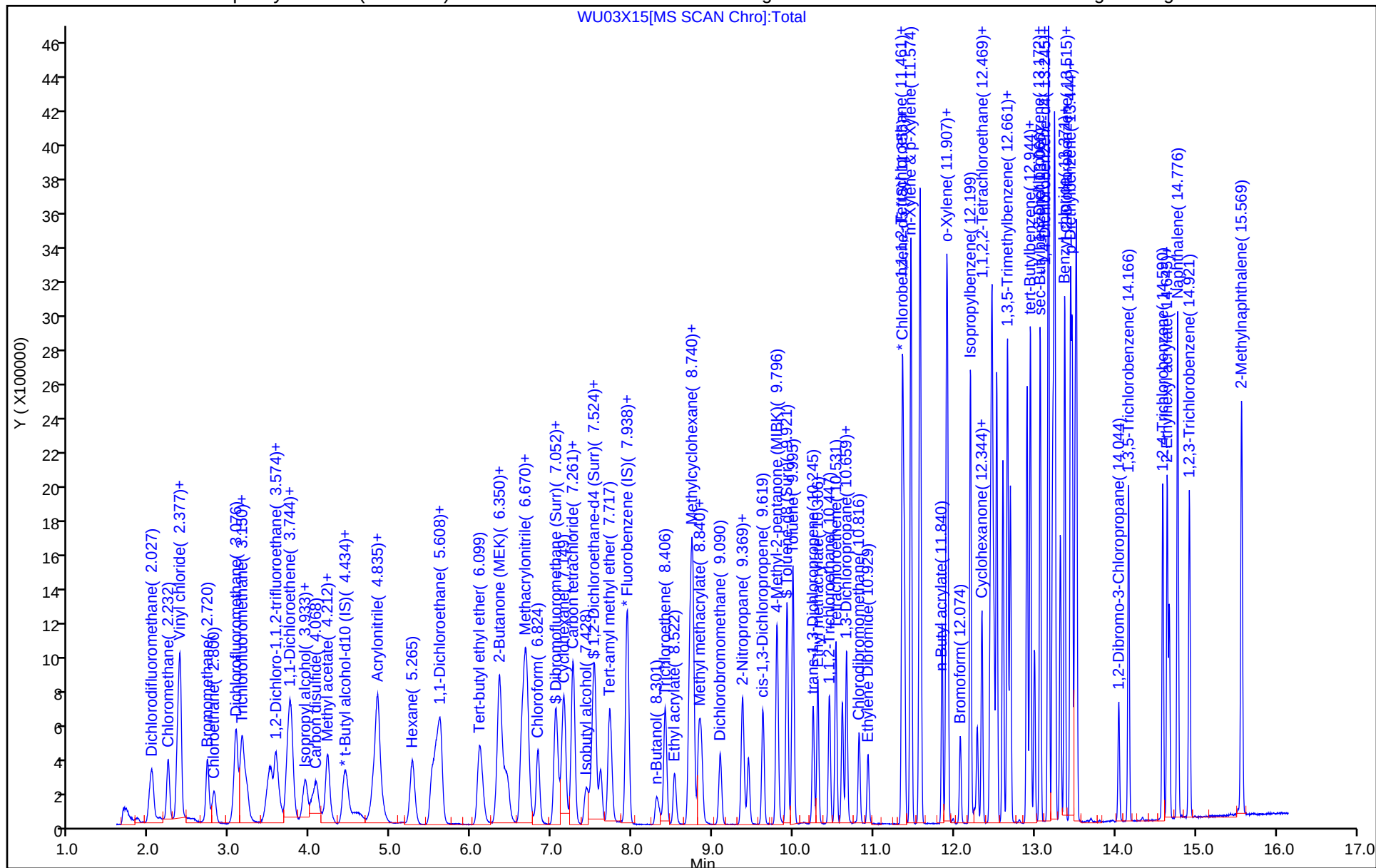
ALS Bottle#: 15

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X16.D
 Lims ID: IC v100
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 03-Jun-2024 22:49:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0115635-017
 Misc. Info.: LG 100
 Operator ID: mec29284 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub73
 Method: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-Jun-2024 13:25:52 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1676

First Level Reviewer: K4WN

Date: 04-Jun-2024 00:01:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.030	2.027	0.003	98	1354900	100.0	95.6	
7 Chloromethane	50	2.229	2.229	0.000	99	1133176	100.0	91.1	
8 Vinyl chloride	62	2.351	2.354	-0.003	98	1199716	100.0	94.9	
9 Butadiene	39	2.380	2.377	0.003	91	1186417	100.0	93.6	
11 Bromomethane	94	2.723	2.720	0.003	91	761866	100.0	89.4	
12 Chloroethane	64	2.804	2.800	0.004	100	586663	100.0	94.4	
13 Dichlorofluoromethane	67	3.073	3.073	0.000	97	1655929	100.0	94.2	
14 Trichlorofluoromethane	101	3.134	3.137	-0.003	98	1372128	100.0	96.7	
15 Pentane	43	3.163	3.160	0.003	97	1053916	100.0	98.7	
17 Ethanol	45	3.275	3.285	-0.010	71	198823	2500.1	2281.4	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.497	3.494	0.003	91	822843	100.0	91.3	
19 Acrolein	56	3.567	3.574	-0.007	99	2007968	1002.2	1043.3	
21 1,1-Dichloroethene	96	3.731	3.728	0.003	98	631690	100.0	100.0	
20 Acetone	58	3.753	3.750	0.003	86	208601	200.0	212.0	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.753	3.757	-0.004	93	765441	100.0	101.3	
25 Iodomethane	142	3.943	3.930	0.013	98	1227713	100.0	101.8	
23 Isopropyl alcohol	45	3.930	3.930	0.000	94	277437	500.0	439.6	
26 Carbon disulfide	76	4.068	4.068	0.000	100	2137060	100.0	102.1	
28 Methyl acetate	43	4.193	4.193	0.000	97	645402	100.0	98.4	
27 3-Chloro-1-propene	41	4.209	4.216	-0.007	91	838435	100.0	100.2	
30 Methylene Chloride	84	4.437	4.424	0.013	92	658922	100.0	97.1	
* 32 t-Butyl alcohol-d10 (IS)	65	4.440	4.453	-0.013	41	305821	250.0	250.0	
33 2-Methyl-2-propanol	59	4.610	4.575	0.035	99	609788	500.0	472.0	
34 Acrylonitrile	53	4.780	4.777	0.003	99	902699	250.0	233.5	
36 Methyl tert-butyl ether	73	4.835	4.832	0.003	89	1979538	100.0	99.0	
35 trans-1,2-Dichloroethene	96	4.835	4.835	0.000	99	569006	100.0	100.1	
37 Hexane	57	5.265	5.265	0.000	92	782477	100.0	97.4	
38 1,1-Dichloroethane	63	5.506	5.509	-0.003	96	969966	100.0	99.4	
40 Isopropyl ether	45	5.573	5.563	0.010	93	1778763	100.0	98.6	
41 2-Chloro-1,3-butadiene	53	5.615	5.615	0.000	92	900390	100.0	100.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Tert-butyl ethyl ether	59	6.102	6.099	0.003	97	1836491	100.0	100.3	M
S 80 1,2-Dichloroethene, Total	100				0			200.2	
44 2-Butanone (MEK)	43	6.327	6.324	0.003	100	979389	200.0	191.1	
43 cis-1,2-Dichloroethene	96	6.340	6.343	-0.003	80	636762	100.0	100.2	
45 2,2-Dichloropropane	77	6.369	6.366	0.003	88	1101898	100.0	100.8	
47 Propionitrile	54	6.430	6.417	0.013	95	798317	500.0	506.6	
48 Methyl acrylate	55	6.452	6.443	0.009	100	895867	100.0	95.4	
49 Methacrylonitrile	67	6.632	6.635	-0.003	92	923185	250.0	241.8	
50 Chlorobromomethane	128	6.677	6.670	0.007	93	329663	100.0	102.2	
51 Tetrahydrofuran	71	6.686	6.690	-0.004	89	739089	500.0	515.3	
52 Chloroform	83	6.828	6.831	-0.003	94	1018511	100.0	100.1	
\$ 54 Dibromofluoromethane (Surr)	113	7.039	7.043	-0.004	93	253874	50.0	49.6	
55 1,1,1-Trichloroethane	97	7.055	7.052	0.003	98	1099563	100.0	102.4	
56 Cyclohexane	56	7.152	7.149	0.003	90	1244442	100.0	100.4	
58 Carbon tetrachloride	117	7.258	7.261	-0.003	94	961949	100.0	105.2	
57 1,1-Dichloropropene	75	7.267	7.264	0.003	95	845864	100.0	100.7	
59 Isobutyl alcohol	41	7.431	7.428	0.003	93	525557	1250.0	1209.4	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.505	7.505	0.000	69	62965	50.0	49.1	
61 Benzene	78	7.530	7.530	0.000	97	2404059	100.0	101.9	
62 1,2-Dichloroethane	62	7.601	7.604	-0.003	98	784076	100.0	99.6	
64 Tert-amyl methyl ether	73	7.716	7.717	0.000	97	1901945	100.0	101.4	
* 65 Fluorobenzene (IS)	96	7.938	7.935	0.003	95	1027780	50.0	50.0	
66 n-Heptane	43	7.938	7.938	0.000	88	709528	100.0	99.1	
67 n-Butanol	56	8.304	8.301	0.003	87	417209	1250.0	1158.3	
68 Trichloroethene	95	8.406	8.406	0.000	98	642367	100.0	101.9	
69 Ethyl acrylate	55	8.525	8.525	0.000	99	955756	100.0	98.8	
70 Methylcyclohexane	83	8.718	8.714	0.004	94	1223347	100.0	103.9	
72 2-ethoxy-2-methyl butane	87	8.750	8.750	0.000	92	998096	100.0	105.4	
71 1,2-Dichloropropane	63	8.747	8.753	-0.007	70	607611	100.0	102.8	
74 Methyl methacrylate	69	8.830	8.827	0.003	89	541327	100.0	97.3	
75 1,4-Dioxane	88	8.846	8.833	0.013	37	108213	1250.0	1235.4	M
73 Dibromomethane	93	8.859	8.859	0.000	96	423998	100.0	101.5	
77 Dichlorobromomethane	83	9.090	9.090	0.000	99	764749	100.0	105.0	
78 2-Nitropropane	41	9.372	9.369	0.003	99	1421888	500.0	537.7	
79 2-Chloroethyl vinyl ether	63	9.440	9.443	-0.003	92	431743	100.0	103.3	
81 cis-1,3-Dichloropropene	75	9.623	9.623	0.000	96	956025	100.0	106.8	
83 4-Methyl-2-pentanone (MIBK)	43	9.799	9.796	0.003	96	2021240	200.0	205.6	
\$ 84 Toluene-d8 (Surr)	98	9.921	9.921	0.000	94	1082674	50.0	49.5	
85 Toluene	92	9.995	9.995	0.000	98	1569112	100.0	101.1	
S 162 1,3-Dichloropropene, Total	100				0			210.5	
86 trans-1,3-Dichloropropene	75	10.248	10.245	0.003	93	862864	100.0	103.7	
87 Ethyl methacrylate	69	10.303	10.306	-0.003	89	973397	100.0	99.2	
88 1,1,2-Trichloroethane	97	10.450	10.447	0.003	91	552493	100.0	100.9	
90 Tetrachloroethene	166	10.527	10.528	-0.001	97	697993	100.0	102.0	
91 1,3-Dichloropropane	76	10.608	10.611	-0.003	91	892430	100.0	101.2	
94 2-Hexanone	43	10.659	10.659	0.000	96	1354074	200.0	197.3	
96 Chlorodibromomethane	129	10.816	10.816	0.000	90	630951	100.0	106.8	
98 Ethylene Dibromide	107	10.929	10.929	0.000	99	587135	100.0	101.3	
S 178 Xylenes, Total	106				0			308.2	
* 101 Chlorobenzene-d5 (IS)	117	11.352	11.352	0.000	85	799275	50.0	50.0	
103 1-Chlorohexane	91	11.359	11.359	0.000	97	827222	100.0	96.6	
102 Chlorobenzene	112	11.378	11.378	0.000	96	1694756	100.0	101.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 1,1,1,2-Tetrachloroethane	131	11.458	11.458	0.000	96	702626	100.0	103.9	
105 Ethylbenzene	91	11.461	11.461	0.000	98	3099286	100.0	101.2	
106 m-Xylene & p-Xylene	106	11.577	11.574	0.003	98	2477434	200.0	204.8	
107 n-Butyl acrylate	55	11.846	11.846	0.000	97	1346260	100.0	98.5	
108 o-Xylene	106	11.904	11.901	0.003	96	1323584	100.0	103.5	
109 Styrene	104	11.917	11.917	0.000	94	1929274	100.0	102.5	
110 Bromoform	173	12.074	12.074	0.000	96	471708	100.0	105.1	
111 Isopropylbenzene	105	12.199	12.199	0.000	96	3279852	100.0	103.1	
113 Cyclohexanone	55	12.286	12.286	0.000	92	443571	1250.0	1218.3	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.344	12.344	0.000	89	388839	50.0	48.9	
116 1,1,2,2-Tetrachloroethane	83	12.446	12.443	0.003	95	1029036	100.0	102.3	
115 Bromobenzene	156	12.462	12.462	0.000	97	737814	100.0	104.1	
119 trans-1,4-Dichloro-2-butene	53	12.472	12.469	0.003	89	752126	250.0	256.1	
118 1,2,3-Trichloropropane	110	12.495	12.495	0.000	85	327742	100.0	102.0	
120 N-Propylbenzene	91	12.527	12.527	0.000	98	3705101	100.0	105.9	
121 2-Chlorotoluene	126	12.607	12.604	0.003	97	791300	100.0	104.6	
122 1,3,5-Trimethylbenzene	105	12.661	12.661	0.000	95	2895253	100.0	108.8	
123 4-Chlorotoluene	126	12.697	12.697	0.000	97	741133	100.0	104.0	
125 tert-Butylbenzene	134	12.905	12.905	0.000	93	588940	100.0	113.2	
127 1,2,4-Trimethylbenzene	105	12.944	12.947	-0.003	98	2946432	100.0	108.2	
128 sec-Butylbenzene	105	13.066	13.066	0.000	94	3592456	100.0	110.9	
131 1,3-Dichlorobenzene	146	13.168	13.165	0.003	98	1426057	100.0	103.1	
132 4-Isopropyltoluene	119	13.172	13.172	0.000	97	3155842	100.0	109.3	
* 133 1,4-Dichlorobenzene-d4	152	13.223	13.220	0.003	93	459682	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.239	13.239	0.000	96	1434610	100.0	101.9	
148 1,2,3-Trimethylbenzene	105	13.249	13.252	-0.003	98	3130528	100.0	108.9	
170 Benzyl chloride	91	13.319	13.316	0.003	98	2181990	100.0	107.5	
171 1,3-Diethylbenzene	119	13.374	13.371	0.003	95	1843036	100.0	107.4	
172 p-Diethylbenzene	119	13.444	13.444	0.000	94	1876524	100.0	107.0	
173 n-Butylbenzene	92	13.464	13.467	-0.003	98	1459306	100.0	107.8	
174 1,2-Dichlorobenzene	146	13.502	13.502	0.000	98	1533487	100.0	103.6	
175 o-diethylbenzene	119	13.518	13.518	0.000	95	1567100	100.0	110.0	
176 1,2-Dibromo-3-Chloropropane	75	14.041	14.044	-0.003	86	311777	100.0	100.5	
177 1,3,5-Trichlorobenzene	180	14.166	14.166	0.000	98	1090956	100.0	103.3	
179 1,2,4-Trichlorobenzene	180	14.590	14.590	0.000	94	1077696	100.0	101.5	
181 2-Ethylhexyl acrylate	55	14.644	14.645	-0.001	83	1096309	100.0	105.8	
180 Hexachlorobutadiene	225	14.673	14.670	0.003	97	386365	100.0	105.9	
182 Naphthalene	128	14.776	14.776	0.000	97	4272966	100.0	101.6	
183 1,2,3-Trichlorobenzene	180	14.920	14.921	0.000	96	1079604	100.0	100.8	
184 2-Methylnaphthalene	142	15.569	15.569	0.000	92	2463033	100.0	106.0	
S 205 Total Diethylbenzene	1				0			324.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00186	Amount Added: 5.00	Units: uL	
MSV_CCV_CYC_00008	Amount Added: 10.00	Units: uL	
MSV_CCV_VOC#3_00182	Amount Added: 4.00	Units: uL	
MSV_CCV_2CEVE_00178	Amount Added: 5.00	Units: uL	
MSV_CCV_ETOH_00006	Amount Added: 10.00	Units: uL	
MSV_CCV_GASES_00782	Amount Added: 2.50	Units: uL	
MSV_CCV_OH_Sp_00010	Amount Added: 5.00	Units: uL	
MSV_Cent_ISSS_00026	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 04-Jun-2024 13:25:53

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X16.D

Injection Date: 03-Jun-2024 22:49:30

Instrument ID: 9137

Operator ID: mec29284

Lims ID: IC v100

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

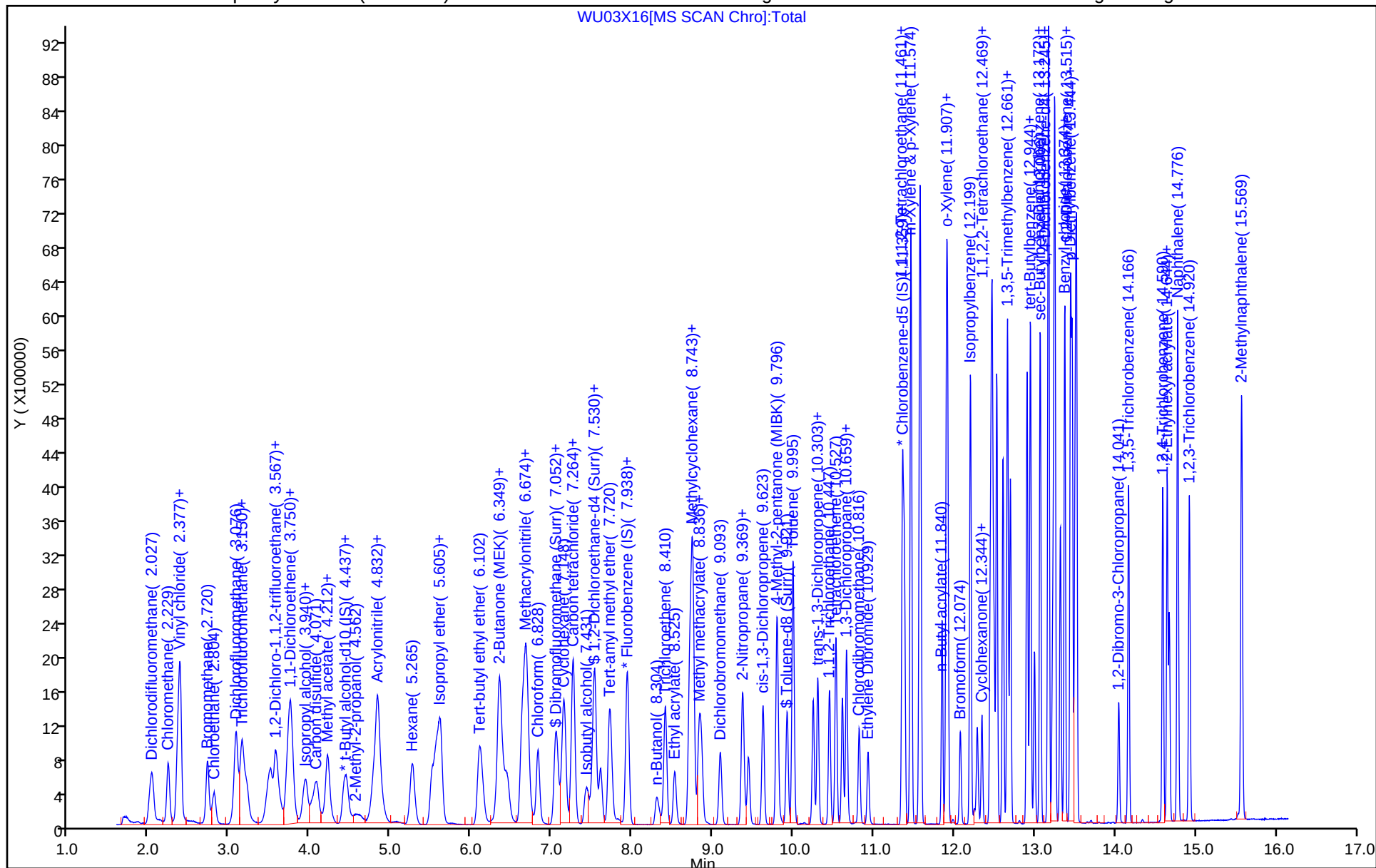
ALS Bottle#: 16

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

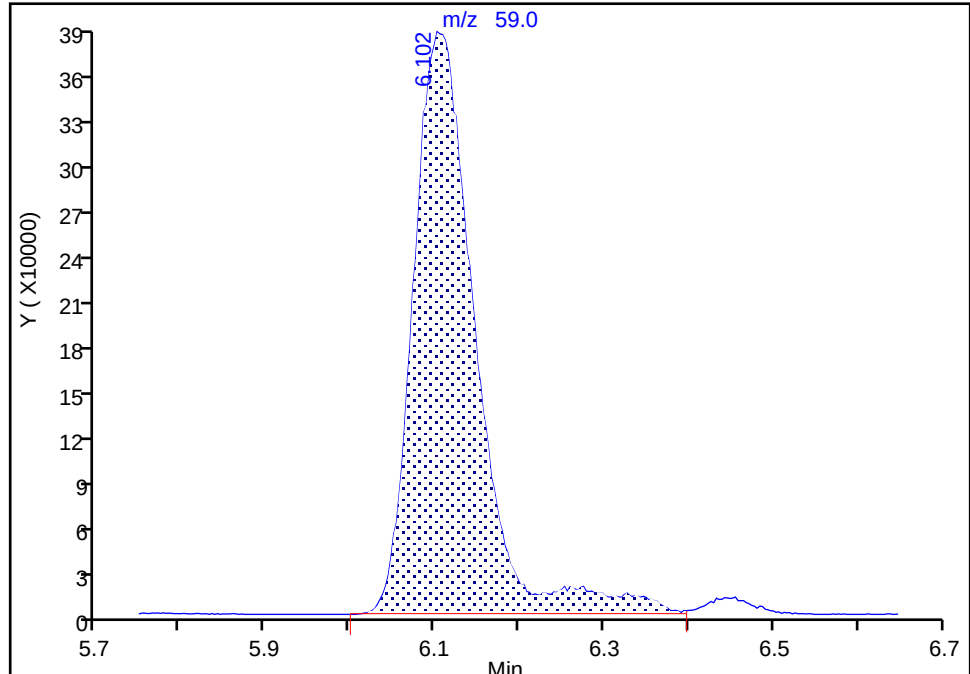
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Injection Date: 03-Jun-2024 22:49:30 Instrument ID: 9137
Lims ID: IC v100
Client ID:
Operator ID: mec29284 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

42 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

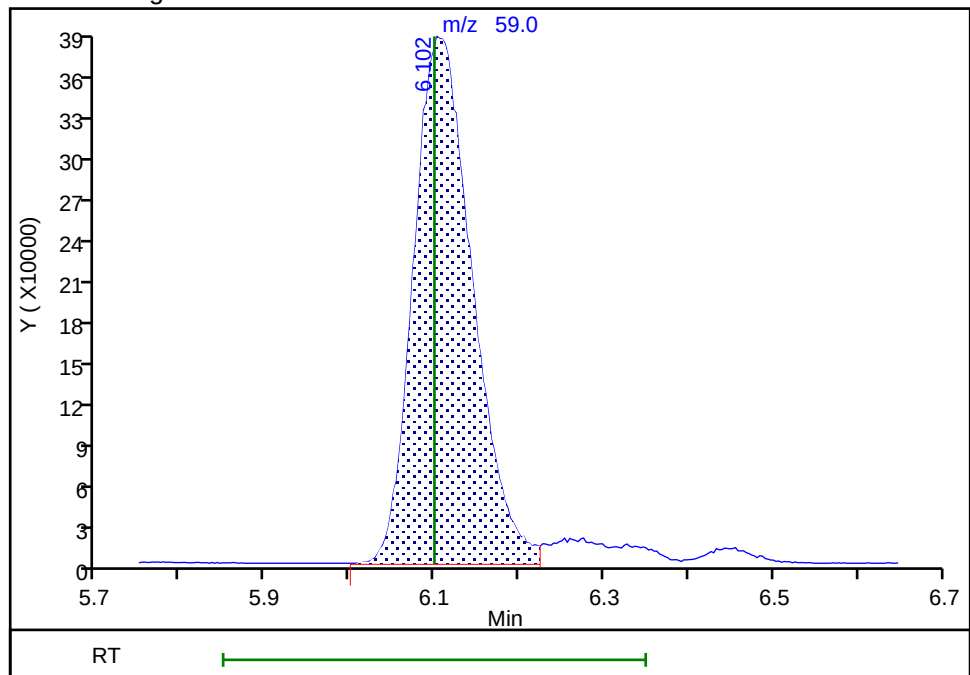
RT: 6.10
Area: 1955348
Amount: 104.7304
Amount Units: ug/l

Processing Integration Results



RT: 6.10
Area: 1836491
Amount: 100.2791
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 04-Jun-2024 12:50:04 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC

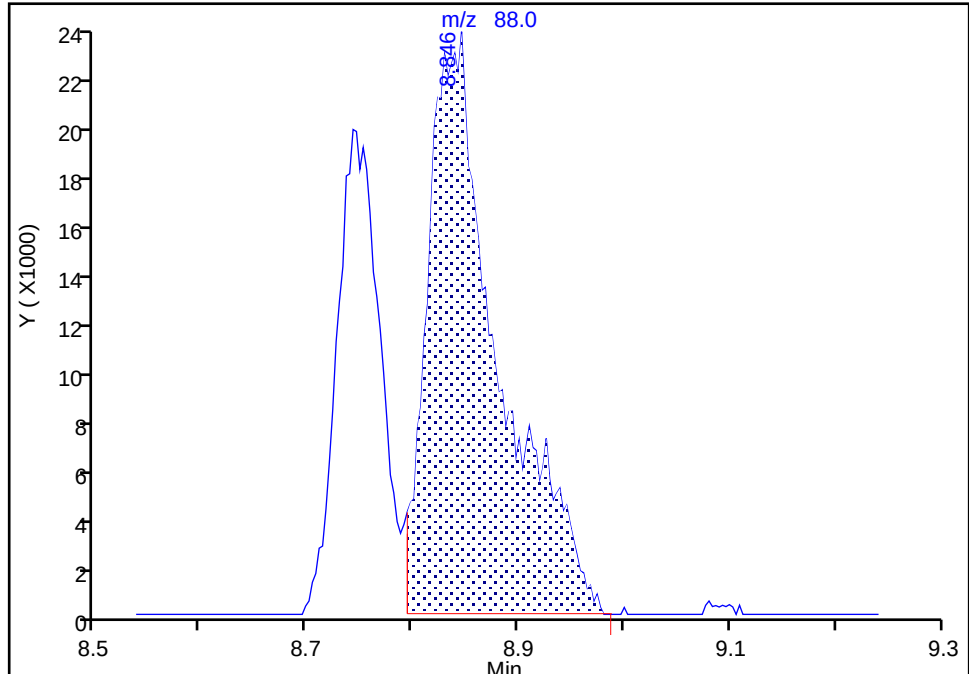
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X16.D
Injection Date: 03-Jun-2024 22:49:30 Instrument ID: 9137
Lims ID: IC v100
Client ID:
Operator ID: mec29284 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

75 1,4-Dioxane, CAS: 123-91-1

Signal: 1

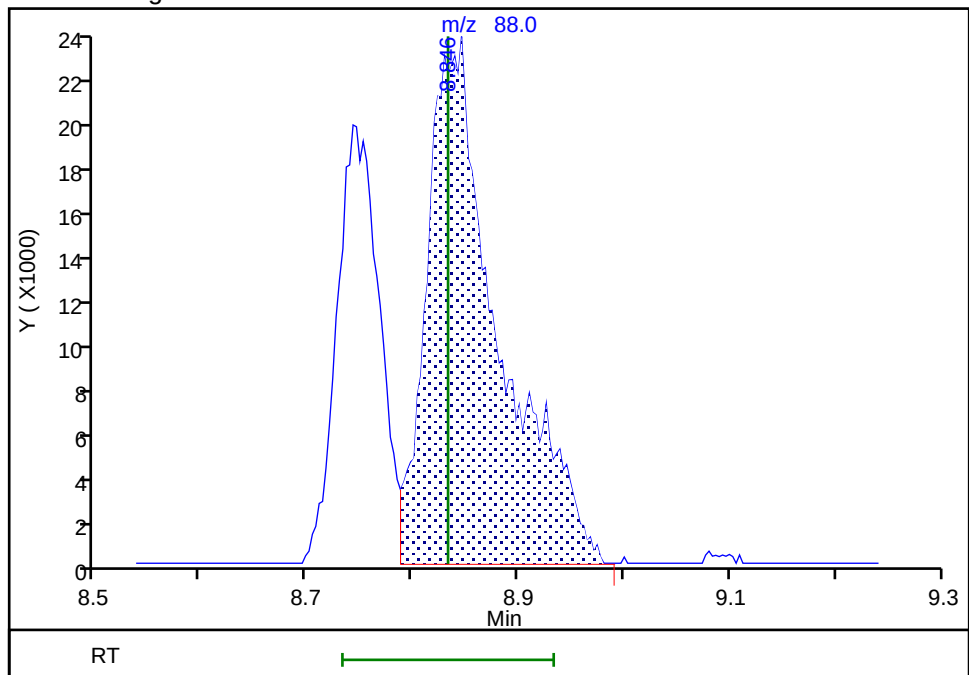
RT: 8.85
Area: 106900
Amount: 1302.1465
Amount Units: ug/l

Processing Integration Results



RT: 8.85
Area: 108213
Amount: 1235.4188
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 04-Jun-2024 00:00:45 -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\9137\20240603-115635.b\WU03X17.D
 Lims ID: IC v300
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 03-Jun-2024 23:11:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0115635-018
 Misc. Info.: LG 300
 Operator ID: mec29284 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub73
 Method: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-Jun-2024 13:25:59 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1676

First Level Reviewer: K4WN

Date: 04-Jun-2024 00:07:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.027	2.027	0.000	99	4133820	300.0	278.0	
7 Chloromethane	50	2.232	2.229	0.003	99	3352751	300.0	257.0	
8 Vinyl chloride	62	2.348	2.354	-0.006	98	3606158	300.0	272.1	
9 Butadiene	39	2.383	2.377	0.006	90	3566640	300.0	268.3	
11 Bromomethane	94	2.720	2.720	0.000	91	2342148	300.0	261.9	
12 Chloroethane	64	2.804	2.800	0.004	100	1784464	300.0	273.7	
13 Dichlorofluoromethane	67	3.076	3.073	0.003	97	4978981	300.0	270.1	
14 Trichlorofluoromethane	101	3.137	3.137	0.000	99	4274034	300.0	287.2	
15 Pentane	43	3.205	3.160	0.045	96	3479859	300.0	310.6	
17 Ethanol	45	3.262	3.285	-0.023	61	724790	7500.3	7830.4	M
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.497	3.494	0.003	91	2526762	300.0	267.3	
19 Acrolein	56	3.567	3.574	-0.007	99	6154040	3006.6	3010.7	
21 1,1-Dichloroethene	96	3.737	3.728	0.009	98	2048679	300.0	309.4	
20 Acetone	58	3.750	3.750	0.000	87	620722	600.0	594.1	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.760	3.757	0.003	93	2456096	300.0	309.9	
25 Iodomethane	142	3.940	3.930	0.010	99	3822318	300.0	302.1	
23 Isopropyl alcohol	45	3.927	3.930	-0.003	81	1111974	1500.0	1658.8	
26 Carbon disulfide	76	4.074	4.068	0.006	100	6807508	300.0	310.2	
28 Methyl acetate	43	4.187	4.193	-0.006	97	1939001	300.0	281.9	
27 3-Chloro-1-propene	41	4.215	4.216	-0.001	90	2619118	300.0	298.3	
30 Methylene Chloride	84	4.440	4.424	0.016	90	2068634	300.0	290.6	
* 32 t-Butyl alcohol-d10 (IS)	65	4.459	4.453	0.006	41	324813	250.0	250.0	
33 2-Methyl-2-propanol	59	4.597	4.575	0.022	98	1968472	1500.0	1434.4	
34 Acrylonitrile	53	4.777	4.777	0.000	100	2715035	750.0	669.5	
36 Methyl tert-butyl ether	73	4.825	4.832	-0.007	95	6027973	300.0	287.5	
35 trans-1,2-Dichloroethene	96	4.835	4.835	0.000	99	1775549	300.0	297.7	
37 Hexane	57	5.262	5.265	-0.003	92	2387051	300.0	283.3	
38 1,1-Dichloroethane	63	5.509	5.509	0.000	96	3014180	300.0	294.5	
40 Isopropyl ether	45	5.573	5.563	0.010	95	5439612	300.0	287.5	
41 2-Chloro-1,3-butadiene	53	5.611	5.615	-0.004	92	2750580	300.0	291.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Tert-butyl ethyl ether	59	6.109	6.099	0.010	97	5660126	300.0	294.7	M
S 80 1,2-Dichloroethene, Total	100				0			586.9	
44 2-Butanone (MEK)	43	6.333	6.324	0.009	100	3002389	600.0	558.5	
43 cis-1,2-Dichloroethene	96	6.346	6.343	0.003	81	1928067	300.0	289.2	
45 2,2-Dichloropropane	77	6.372	6.366	0.006	87	3459220	300.0	301.6	
47 Propionitrile	54	6.430	6.417	0.013	96	2385215	1500.0	1425.1	
48 Methyl acrylate	55	6.452	6.443	0.009	100	2806411	300.0	284.9	
49 Methacrylonitrile	67	6.635	6.635	0.000	92	2845044	750.0	710.5	
50 Chlorobromomethane	128	6.677	6.670	0.007	92	1013894	300.0	299.6	
51 Tetrahydrofuran	71	6.693	6.690	0.003	87	2249355	1500.0	1476.5	
52 Chloroform	83	6.828	6.831	-0.003	94	3056187	300.0	289.9	
\$ 54 Dibromofluoromethane (Surr)	113	7.043	7.043	0.000	93	260278	50.0	48.5	
55 1,1,1-Trichloroethane	97	7.055	7.052	0.003	98	3464928	300.0	307.8	
56 Cyclohexane	56	7.148	7.149	-0.001	90	3956424	300.0	304.3	
58 Carbon tetrachloride	117	7.267	7.261	0.006	96	3082744	300.0	321.3	
57 1,1-Dichloropropene	75	7.264	7.264	0.000	96	2598728	300.0	295.1	
59 Isobutyl alcohol	41	7.434	7.428	0.006	94	1592648	3750.0	3450.6	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.505	7.505	0.000	69	66000	50.0	49.0	
61 Benzene	78	7.533	7.530	0.003	96	7347791	300.0	296.8	
62 1,2-Dichloroethane	62	7.607	7.604	0.003	98	2438027	300.0	295.4	
64 Tert-amyl methyl ether	73	7.720	7.717	0.004	97	5815623	300.0	295.6	M
* 65 Fluorobenzene (IS)	96	7.935	7.935	0.000	97	1077920	50.0	50.0	
66 n-Heptane	43	7.938	7.938	0.000	90	2145416	300.0	285.7	
67 n-Butanol	56	8.313	8.301	0.012	94	1334759	3750.0	3489.0	
68 Trichloroethene	95	8.410	8.406	0.004	97	2005285	300.0	303.4	
69 Ethyl acrylate	55	8.528	8.525	0.003	99	3070586	300.0	302.6	
70 Methylcyclohexane	83	8.718	8.714	0.004	91	3918892	300.0	317.3	
72 2-ethoxy-2-methyl butane	87	8.750	8.750	0.000	92	3238804	300.0	326.2	
71 1,2-Dichloropropane	63	8.750	8.753	-0.003	85	1915126	300.0	309.0	
74 Methyl methacrylate	69	8.833	8.827	0.006	89	1793324	300.0	307.4	
75 1,4-Dioxane	88	8.836	8.833	0.003	76	380549	3750.0	4090.5	
73 Dibromomethane	93	8.859	8.859	0.000	97	1335831	300.0	304.8	
77 Dichlorobromomethane	83	9.093	9.090	0.003	99	2446941	300.0	320.3	
78 2-Nitropropane	41	9.372	9.369	0.003	99	4451336	1500.0	1584.8	
79 2-Chloroethyl vinyl ether	63	9.446	9.443	0.003	92	1404209	300.0	320.3	
81 cis-1,3-Dichloropropene	75	9.626	9.623	0.003	96	3147626	300.0	335.3	
83 4-Methyl-2-pentanone (MIBK)	43	9.799	9.796	0.003	96	5942710	600.0	576.3	
\$ 84 Toluene-d8 (Surr)	98	9.924	9.921	0.003	94	1187104	50.0	48.9	
85 Toluene	92	9.998	9.995	0.003	98	5079204	300.0	295.1	
S 162 1,3-Dichloropropene, Total	100				0			648.8	
86 trans-1,3-Dichloropropene	75	10.248	10.245	0.003	93	2893166	300.0	313.5	
87 Ethyl methacrylate	69	10.306	10.306	0.000	88	3088881	300.0	283.8	
88 1,1,2-Trichloroethane	97	10.450	10.447	0.003	91	1780530	300.0	293.2	
90 Tetrachloroethene	166	10.531	10.528	0.003	96	2250526	300.0	296.6	
91 1,3-Dichloropropane	76	10.611	10.611	0.000	91	2881800	300.0	294.7	
94 2-Hexanone	43	10.662	10.659	0.003	95	4086531	600.0	537.0	
96 Chlorodibromomethane	129	10.819	10.816	0.003	88	2124309	300.0	324.3	
98 Ethylene Dibromide	107	10.929	10.929	0.000	98	1908269	300.0	296.9	
S 178 Xylenes, Total	106				0			885.5	
* 101 Chlorobenzene-d5 (IS)	117	11.355	11.352	0.003	84	886267	50.0	50.0	
103 1-Chlorohexane	91	11.359	11.359	-0.001	98	2690821	300.0	283.3	
102 Chlorobenzene	112	11.381	11.378	0.003	95	5534731	300.0	300.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 1,1,1,2-Tetrachloroethane	131	11.461	11.458	0.003	95	2223984	300.0	296.7	
105 Ethylbenzene	91	11.464	11.461	0.003	98	9688448	300.0	285.4	
106 m-Xylene & p-Xylene	106	11.577	11.574	0.003	97	7872216	600.0	586.8	
107 n-Butyl acrylate	55	11.849	11.846	0.003	97	4081531	300.1	269.3	
108 o-Xylene	106	11.904	11.901	0.003	95	4236300	300.0	298.7	
109 Styrene	104	11.920	11.917	0.003	94	6348960	300.0	304.2	
110 Bromoform	173	12.074	12.074	0.000	96	1582122	300.0	317.9	
111 Isopropylbenzene	105	12.202	12.199	0.003	96	10012868	300.0	283.8	
113 Cyclohexanone	55	12.286	12.286	0.000	92	1578813	3749.9	4082.7	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.344	12.344	0.000	90	429729	50.0	48.8	
116 1,1,2,2-Tetrachloroethane	83	12.446	12.443	0.003	95	3189150	300.0	292.4	
115 Bromobenzene	156	12.462	12.462	0.000	98	2401938	300.0	312.6	
119 trans-1,4-Dichloro-2-butene	53	12.472	12.469	0.003	90	2351089	750.0	738.4	
118 1,2,3-Trichloropropane	110	12.494	12.495	-0.001	85	987922	300.0	283.4	
120 N-Propylbenzene	91	12.530	12.527	0.003	97	10943588	300.0	288.4	
121 2-Chlorotoluene	126	12.607	12.604	0.003	97	2505324	300.0	305.4	
122 1,3,5-Trimethylbenzene	105	12.661	12.661	0.000	96	8979553	300.0	311.2	
123 4-Chlorotoluene	126	12.697	12.697	0.000	97	2419186	300.0	313.1	
125 tert-Butylbenzene	134	12.905	12.905	0.000	93	1919328	300.0	340.3	
127 1,2,4-Trimethylbenzene	105	12.947	12.947	0.000	97	9090538	300.0	307.9	
128 sec-Butylbenzene	105	13.069	13.066	0.003	95	10926977	300.0	311.1	
131 1,3-Dichlorobenzene	146	13.168	13.165	0.003	98	4566234	300.0	304.4	
132 4-Isopropyltoluene	119	13.175	13.172	0.003	96	9755897	300.0	311.5	
* 133 1,4-Dichlorobenzene-d4	152	13.223	13.220	0.003	93	498460	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.239	13.239	0.000	93	4573333	300.0	299.6	
148 1,2,3-Trimethylbenzene	105	13.252	13.252	0.000	97	9687754	300.0	310.6	
170 Benzyl chloride	91	13.319	13.316	0.003	98	6764152	300.0	307.4	
171 1,3-Diethylbenzene	119	13.374	13.371	0.003	94	5875332	300.0	315.8	
172 p-Diethylbenzene	119	13.444	13.444	0.000	93	5936828	300.0	312.1	
173 n-Butylbenzene	92	13.467	13.467	0.000	97	4656150	300.0	317.3	
174 1,2-Dichlorobenzene	146	13.502	13.502	0.000	97	4845988	300.0	302.0	
175 o-diethylbenzene	119	13.518	13.518	0.000	95	5127636	300.0	332.0	
176 1,2-Dibromo-3-Chloropropane	75	14.044	14.044	0.000	93	994685	300.0	295.7	
177 1,3,5-Trichlorobenzene	180	14.166	14.166	0.000	98	3401173	300.0	296.9	
179 1,2,4-Trichlorobenzene	180	14.593	14.590	0.003	94	3361522	300.0	291.9	
181 2-Ethylhexyl acrylate	55	14.644	14.645	-0.001	81	3575666	299.9	318.1	
180 Hexachlorobutadiene	225	14.673	14.670	0.003	98	1286781	300.0	325.3	
182 Naphthalene	128	14.776	14.776	0.000	98	12476970	300.0	273.5	
183 1,2,3-Trichlorobenzene	180	14.920	14.921	0.000	95	3419811	300.0	294.6	
184 2-Methylnaphthalene	142	15.569	15.569	0.000	92	7685149	300.0	305.0	
S 205 Total Diethylbenzene	1				0			960.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00186	Amount Added: 15.00	Units: uL	
MSV_CCV_2CEVE_00178	Amount Added: 15.00	Units: uL	
MSV_CCV_VOC#3_00182	Amount Added: 12.00	Units: uL	
MSV_CCV_ETOH_00006	Amount Added: 30.00	Units: uL	
MSV_CCV_CYC_00008	Amount Added: 30.00	Units: uL	
MSV_CCV_GASES_00782	Amount Added: 7.50	Units: uL	
MSV_CCV_OH_Sp_00010	Amount Added: 15.00	Units: uL	
MSV_Cent_ISSS_00026	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 04-Jun-2024 13:26:00

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D

Injection Date: 03-Jun-2024 23:11:30

Instrument ID: 9137

Operator ID: mec29284

Lims ID: IC v300

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

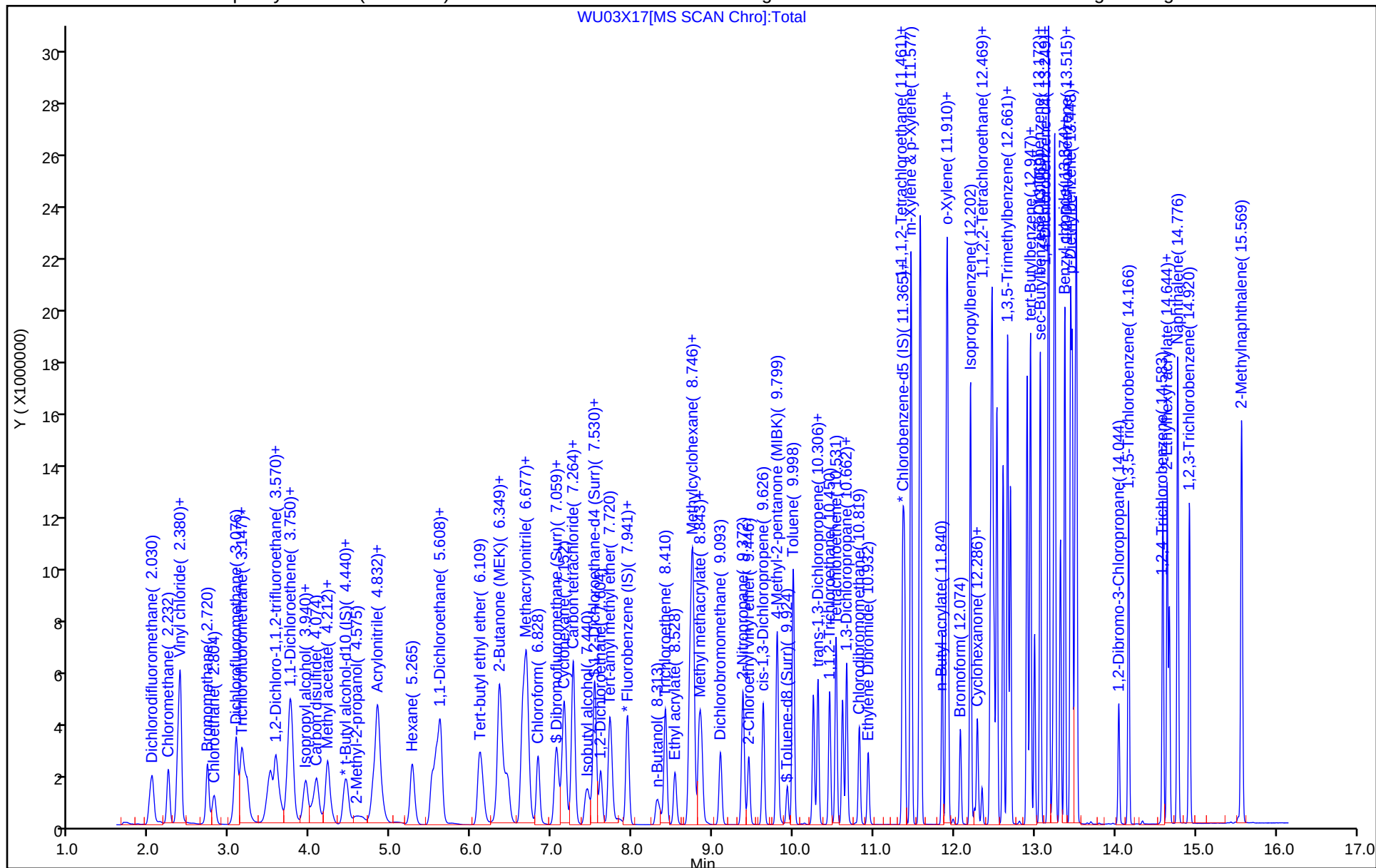
ALS Bottle#: 17

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

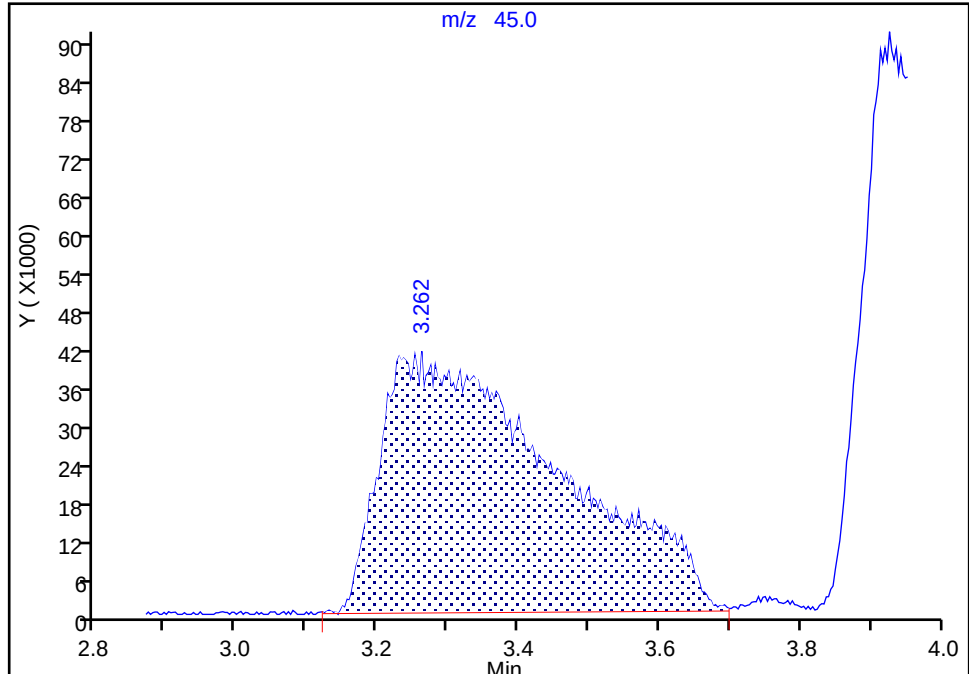
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Injection Date: 03-Jun-2024 23:11:30 Instrument ID: 9137
Lims ID: IC v300
Client ID:
Operator ID: mec29284 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

17 Ethanol, CAS: 64-17-5

Signal: 1

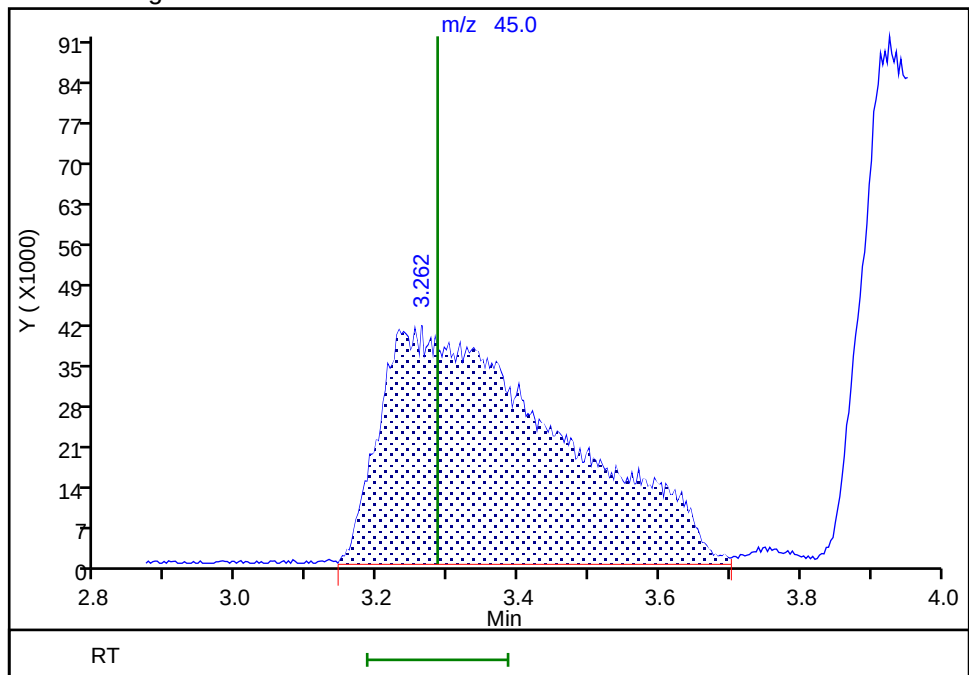
RT: 3.26
Area: 714090
Amount: 7580.1080
Amount Units: ug/l

Processing Integration Results



RT: 3.26
Area: 724790
Amount: 7830.3904
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 04-Jun-2024 00:02:40 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

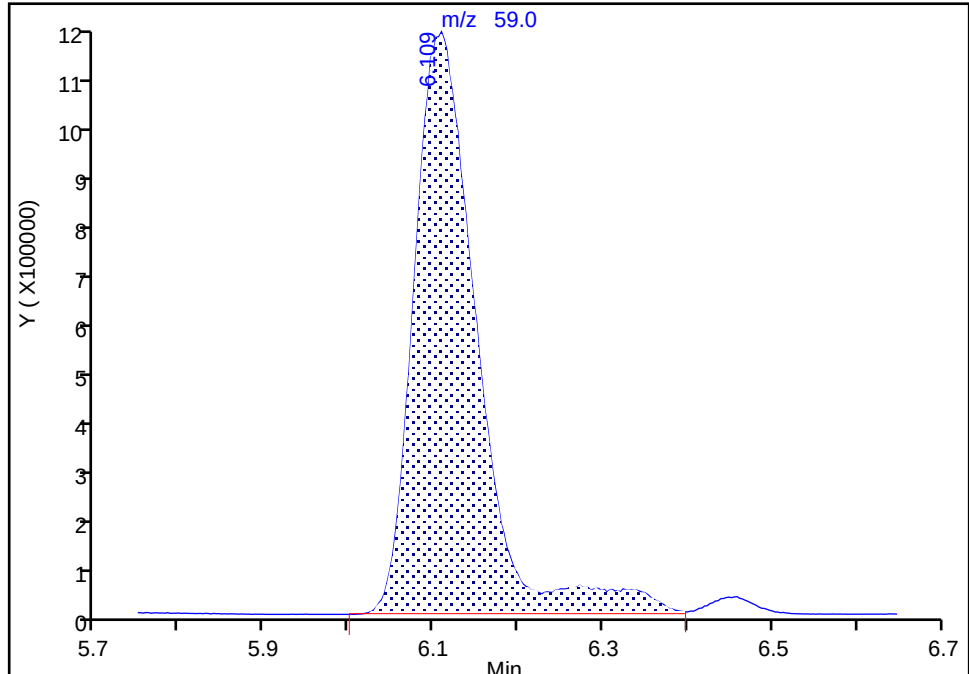
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Injection Date: 03-Jun-2024 23:11:30 Instrument ID: 9137
Lims ID: IC v300
Client ID:
Operator ID: mec29284 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

42 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

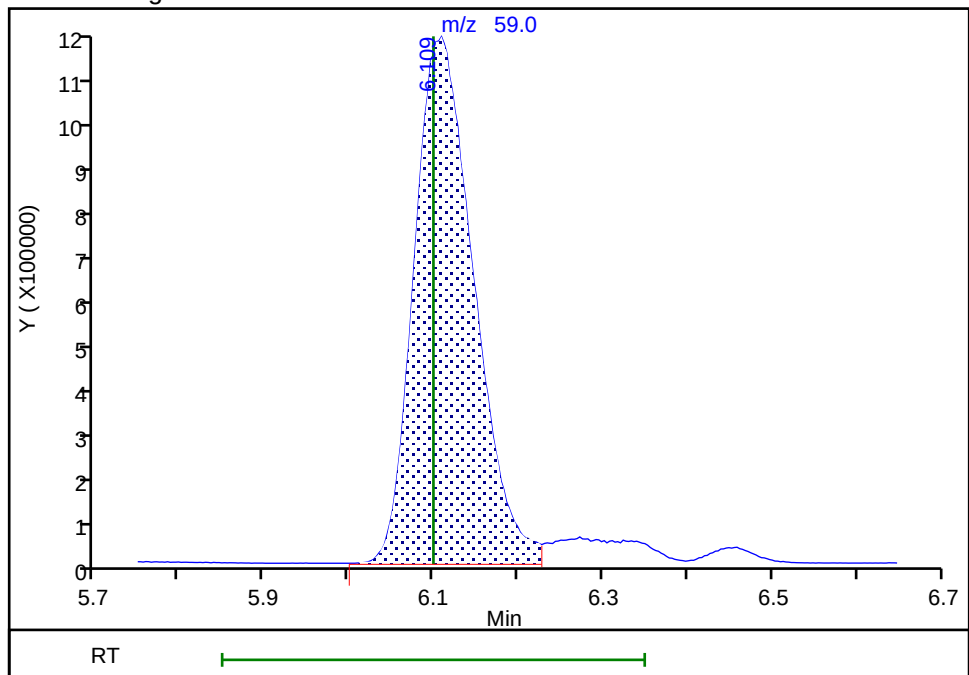
RT: 6.11
Area: 6071338
Amount: 312.9064
Amount Units: ug/l

Processing Integration Results



RT: 6.11
Area: 5660126
Amount: 294.6872
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 04-Jun-2024 12:50:21 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC

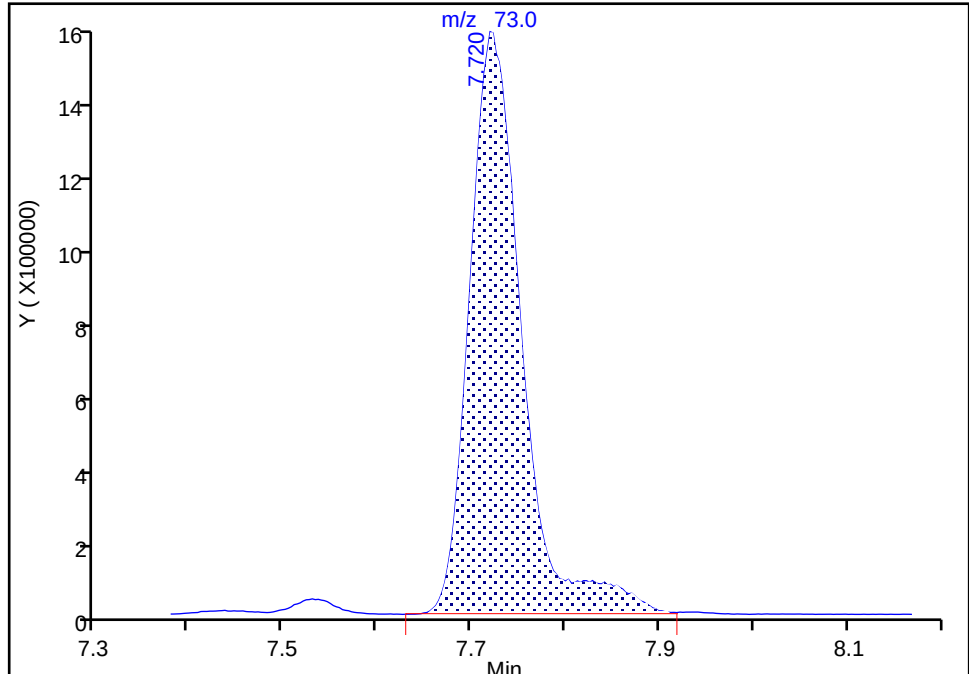
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
Injection Date: 03-Jun-2024 23:11:30 Instrument ID: 9137
Lims ID: IC v300
Client ID:
Operator ID: mec29284 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

64 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

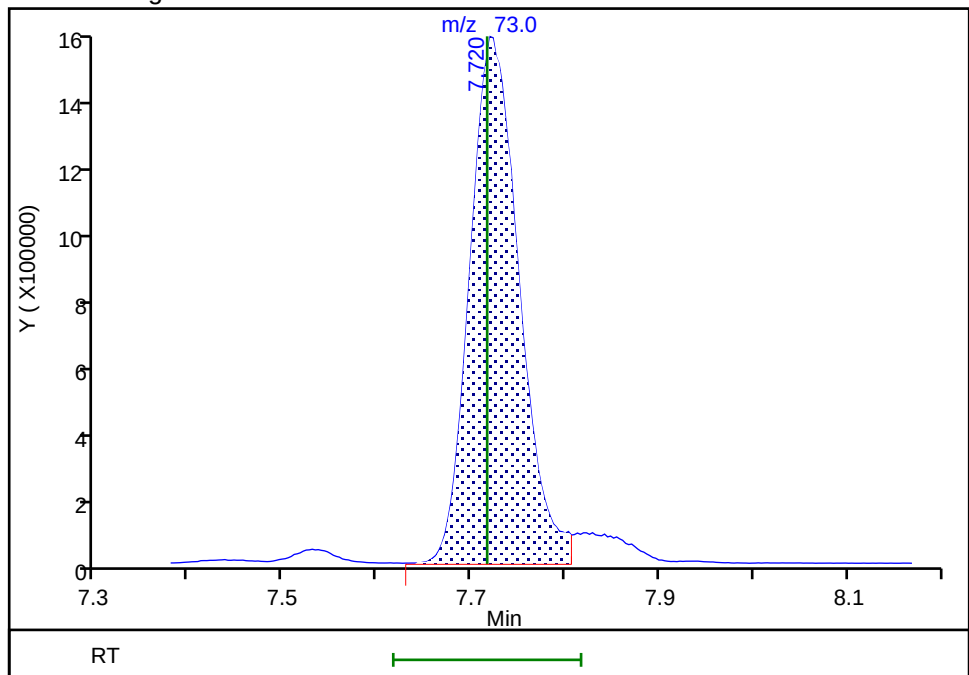
RT: 7.72
Area: 6181018
Amount: 311.4509
Amount Units: ug/l

Processing Integration Results



RT: 7.72
Area: 5815623
Amount: 295.6312
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 04-Jun-2024 12:53:18 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Calibration

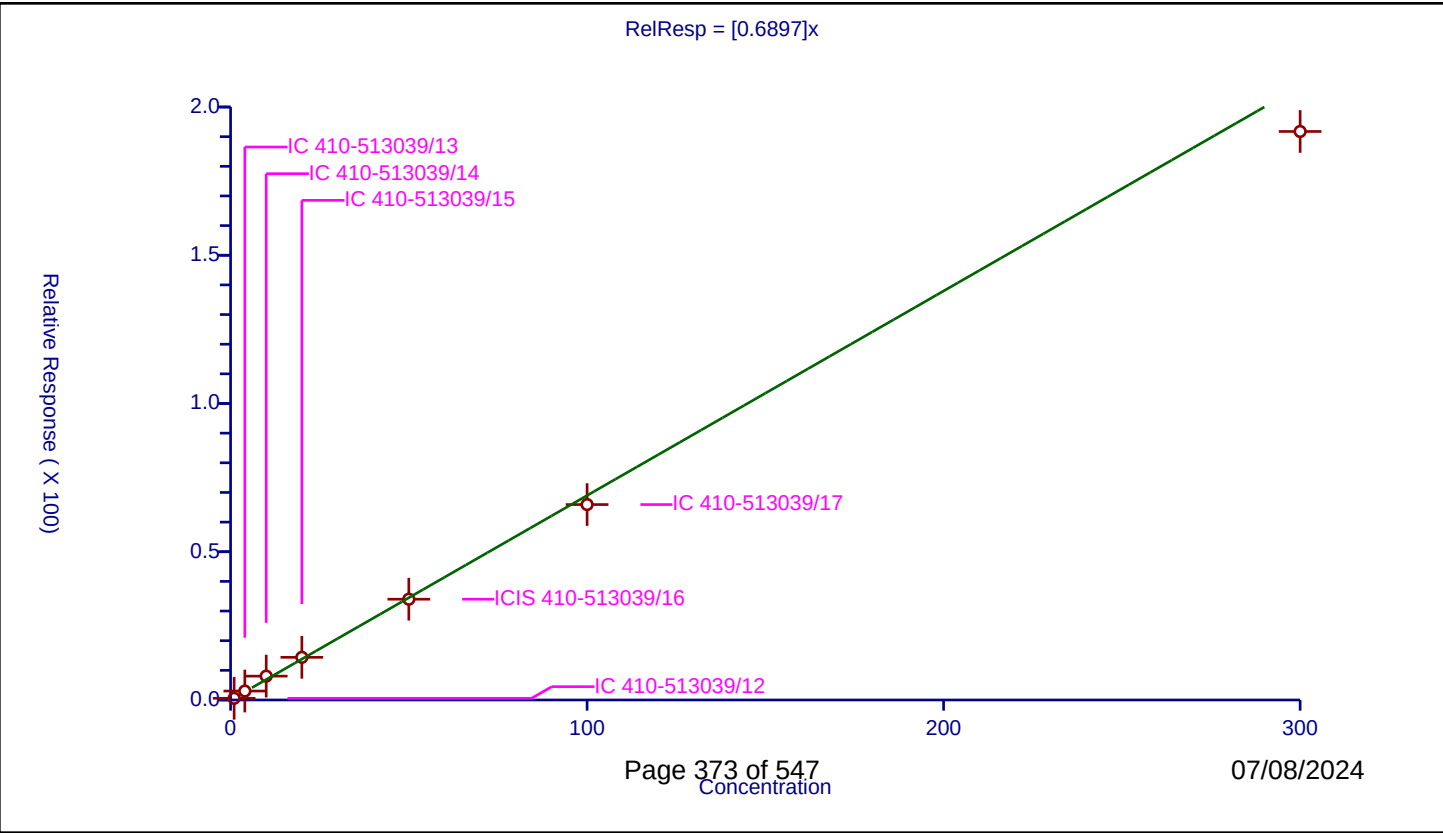
/ Dichlorodifluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6897
Error Coefficients	

Relative Standard Deviation: 11.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.571734	50.0	950004.0	0.571734	Y
2	IC 410-513039/13	4.0	3.017697	50.0	973474.0	0.754424	Y
3	IC 410-513039/14	10.0	8.047178	50.0	979275.0	0.804718	Y
4	IC 410-513039/15	20.0	14.382354	50.0	967067.0	0.719118	Y
5	ICIS 410-513039/16	50.0	33.99437	50.0	1028435.0	0.679887	Y
6	IC 410-513039/17	100.0	65.913912	50.0	1027780.0	0.659139	Y
7	IC 410-513039/18	300.0	191.749852	50.0	1077920.0	0.639166	Y



Calibration

/ Chloromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

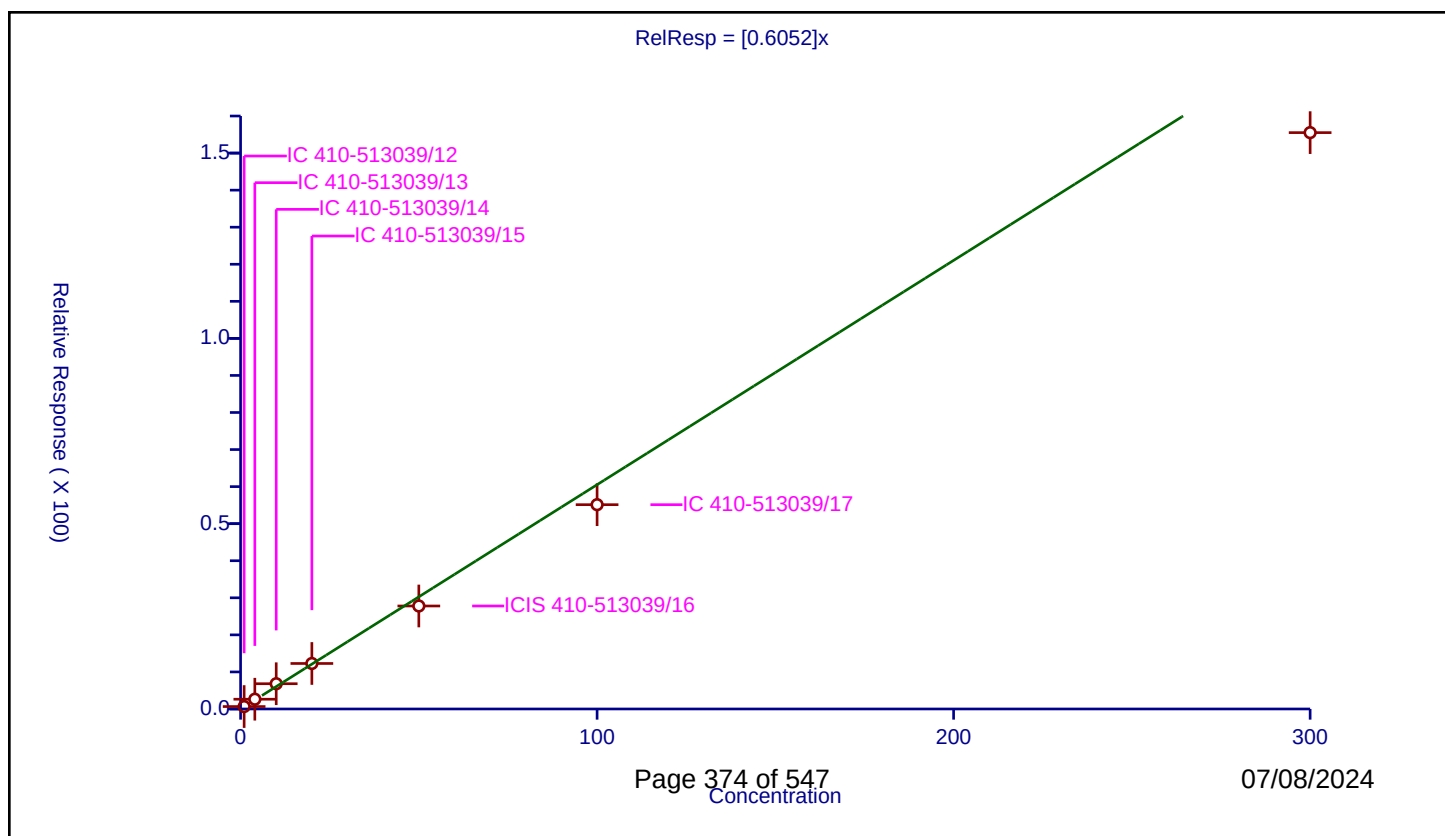
Curve Coefficients

Intercept: 0
Slope: 0.6052

Error Coefficients

Relative Standard Deviation: 10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.656839	50.0	950004.0	0.656839	Y
2	IC 410-513039/13	4.0	2.634636	50.0	973474.0	0.658659	Y
3	IC 410-513039/14	10.0	6.815144	50.0	979275.0	0.681514	Y
4	IC 410-513039/15	20.0	12.278157	50.0	967067.0	0.613908	Y
5	ICIS 410-513039/16	50.0	27.794853	50.0	1028435.0	0.555897	Y
6	IC 410-513039/17	100.0	55.127362	50.0	1027780.0	0.551274	Y
7	IC 410-513039/18	300.0	155.519473	50.0	1077920.0	0.518398	Y



Calibration

/ Vinyl chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

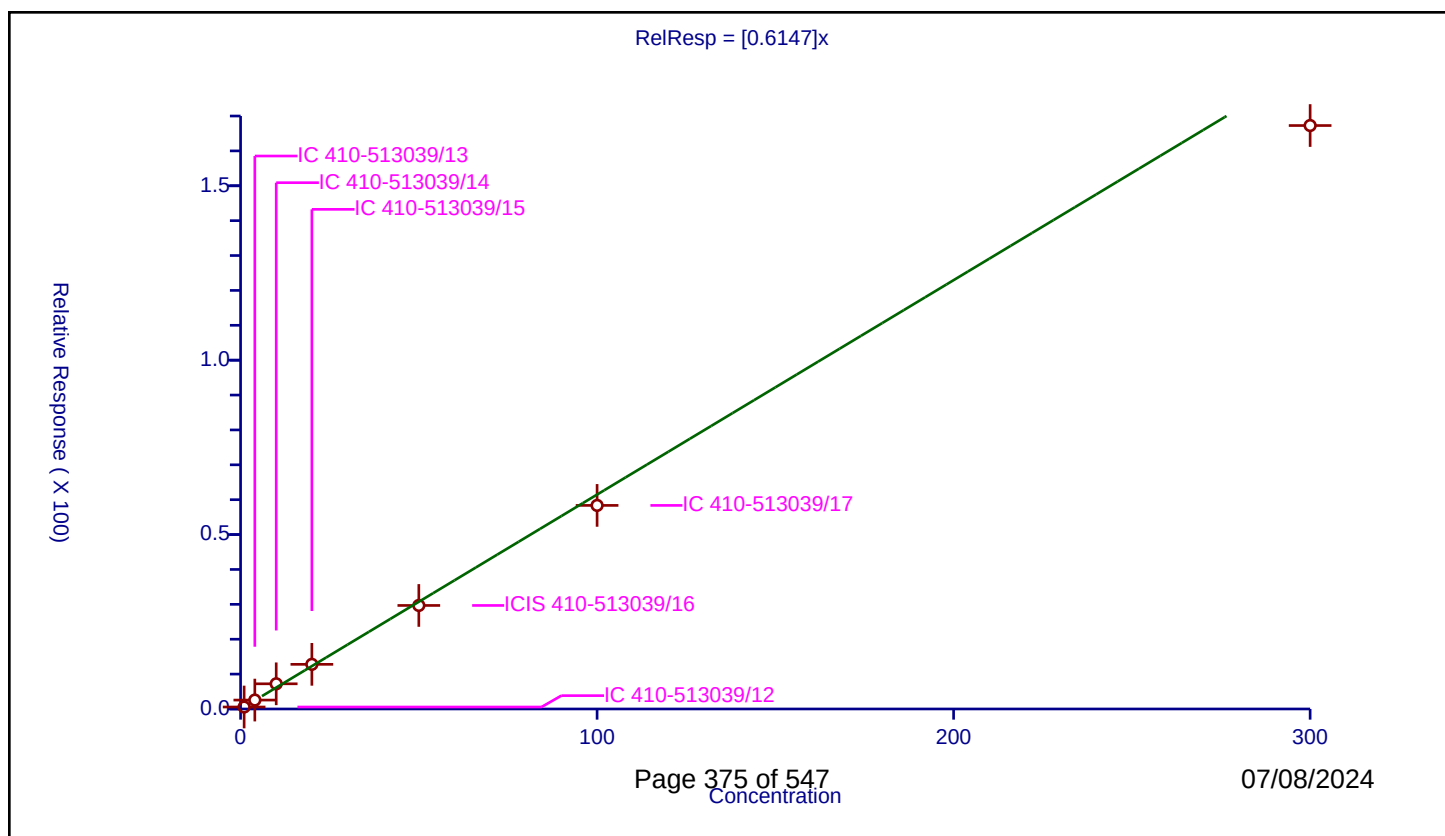
Curve Coefficients

Intercept: 0
 Slope: 0.6147

Error Coefficients

Relative Standard Deviation: 9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.567313	50.0	950004.0	0.567313	Y
2	IC 410-513039/13	4.0	2.556155	50.0	973474.0	0.639039	Y
3	IC 410-513039/14	10.0	7.219678	50.0	979275.0	0.721968	Y
4	IC 410-513039/15	20.0	12.798286	50.0	967067.0	0.639914	Y
5	ICIS 410-513039/16	50.0	29.681798	50.0	1028435.0	0.593636	Y
6	IC 410-513039/17	100.0	58.364436	50.0	1027780.0	0.583644	Y
7	IC 410-513039/18	300.0	167.273916	50.0	1077920.0	0.55758	Y



Calibration

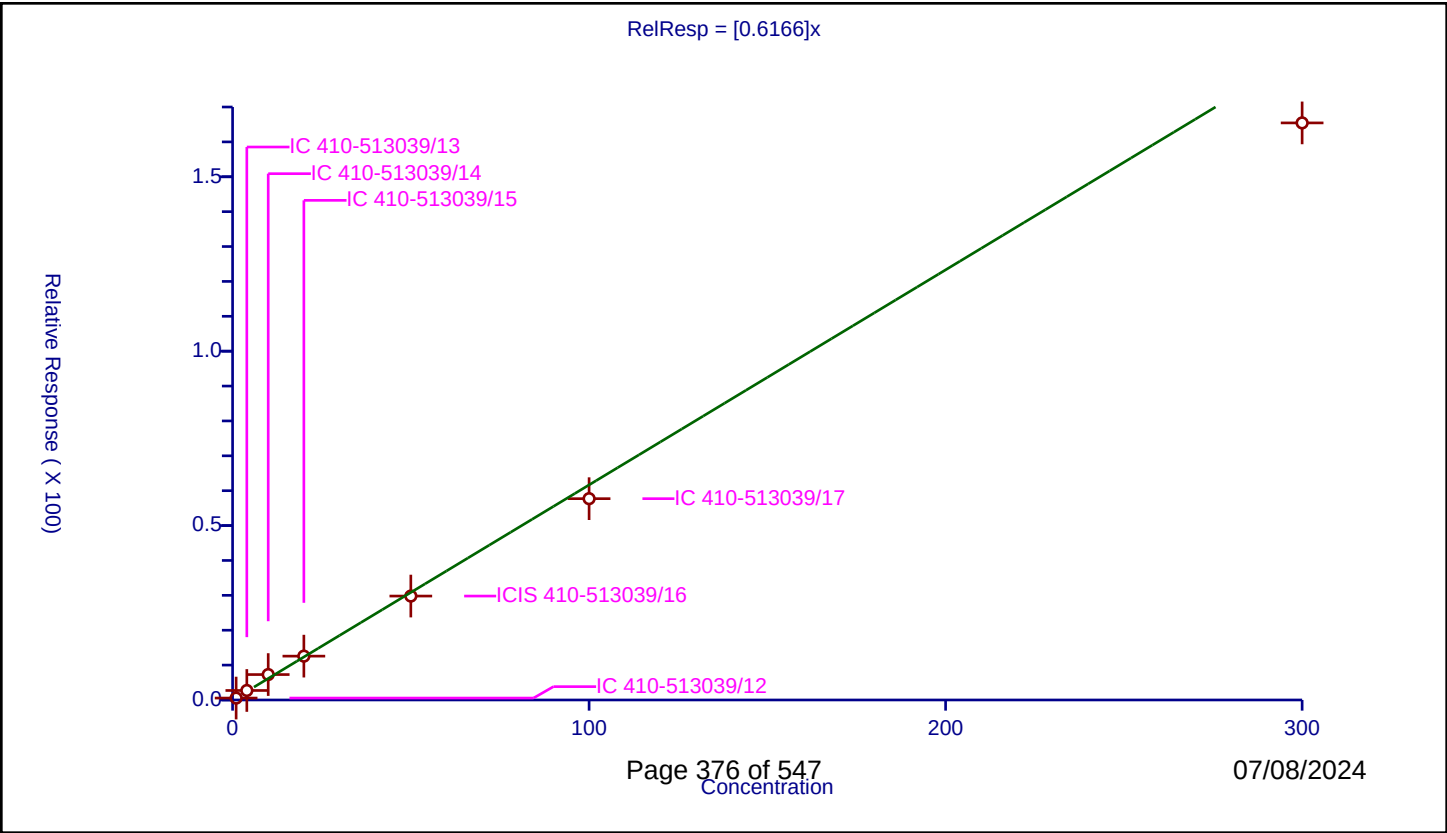
/ Butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6166
Error Coefficients	

Relative Standard Deviation: 10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.552577	50.0	950004.0	0.552577	Y
2	IC 410-513039/13	4.0	2.724418	50.0	973474.0	0.681104	Y
3	IC 410-513039/14	10.0	7.290036	50.0	979275.0	0.729004	Y
4	IC 410-513039/15	20.0	12.574775	50.0	967067.0	0.628739	Y
5	ICIS 410-513039/16	50.0	29.795709	50.0	1028435.0	0.595914	Y
6	IC 410-513039/17	100.0	57.717459	50.0	1027780.0	0.577175	Y
7	IC 410-513039/18	300.0	165.440849	50.0	1077920.0	0.551469	Y



Calibration

/ Bromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

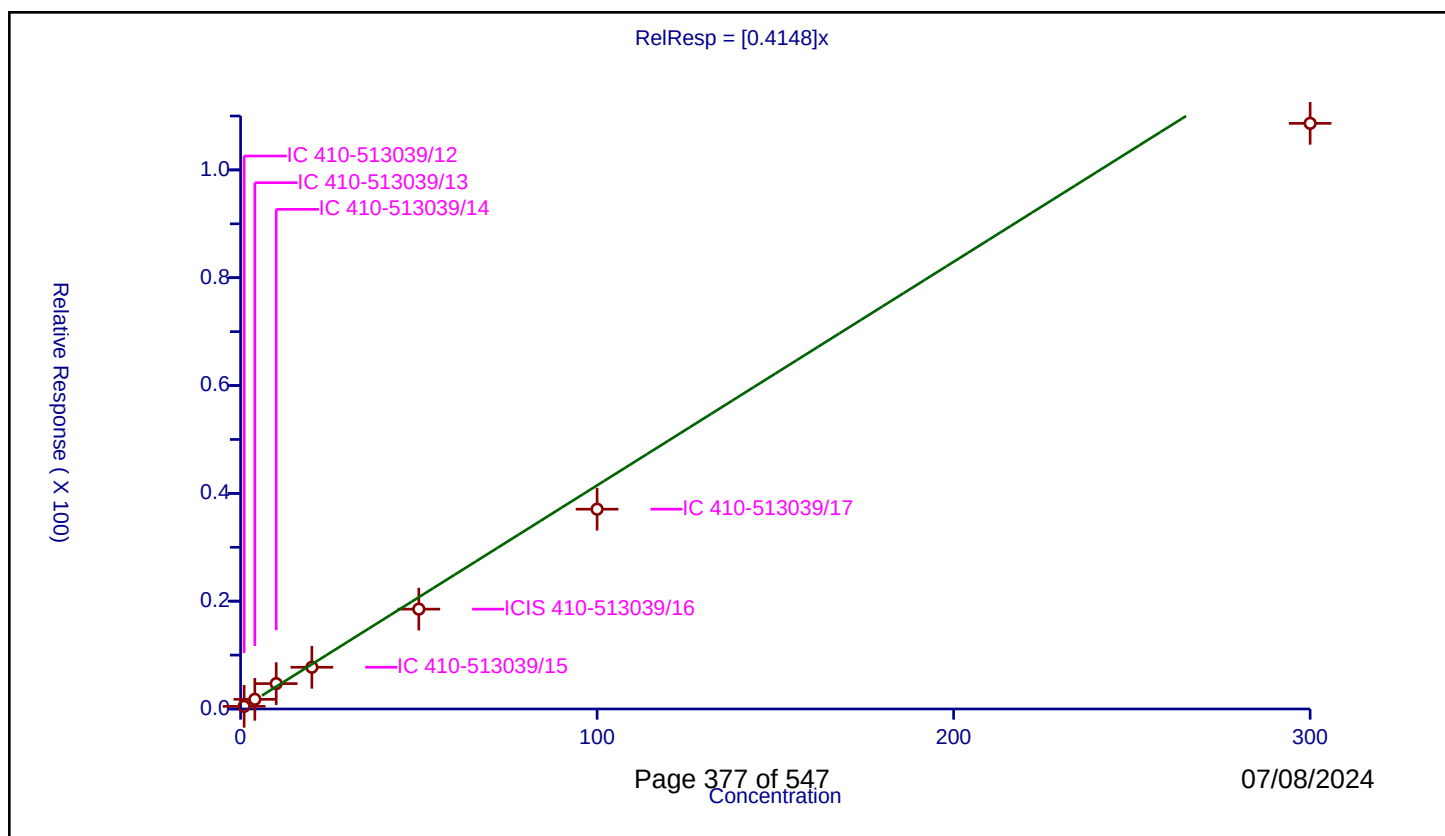
Curve Coefficients

Intercept: 0
Slope: 0.4148

Error Coefficients

Relative Standard Deviation: 13.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.493945	50.0	950004.0	0.493945	Y
2	IC 410-513039/13	4.0	1.793885	50.0	973474.0	0.448471	Y
3	IC 410-513039/14	10.0	4.707615	50.0	979275.0	0.470762	Y
4	IC 410-513039/15	20.0	7.74057	50.0	967067.0	0.387029	Y
5	ICIS 410-513039/16	50.0	18.523144	50.0	1028435.0	0.370463	Y
6	IC 410-513039/17	100.0	37.063671	50.0	1027780.0	0.370637	Y
7	IC 410-513039/18	300.0	108.642014	50.0	1077920.0	0.36214	Y



Calibration

/ Chloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

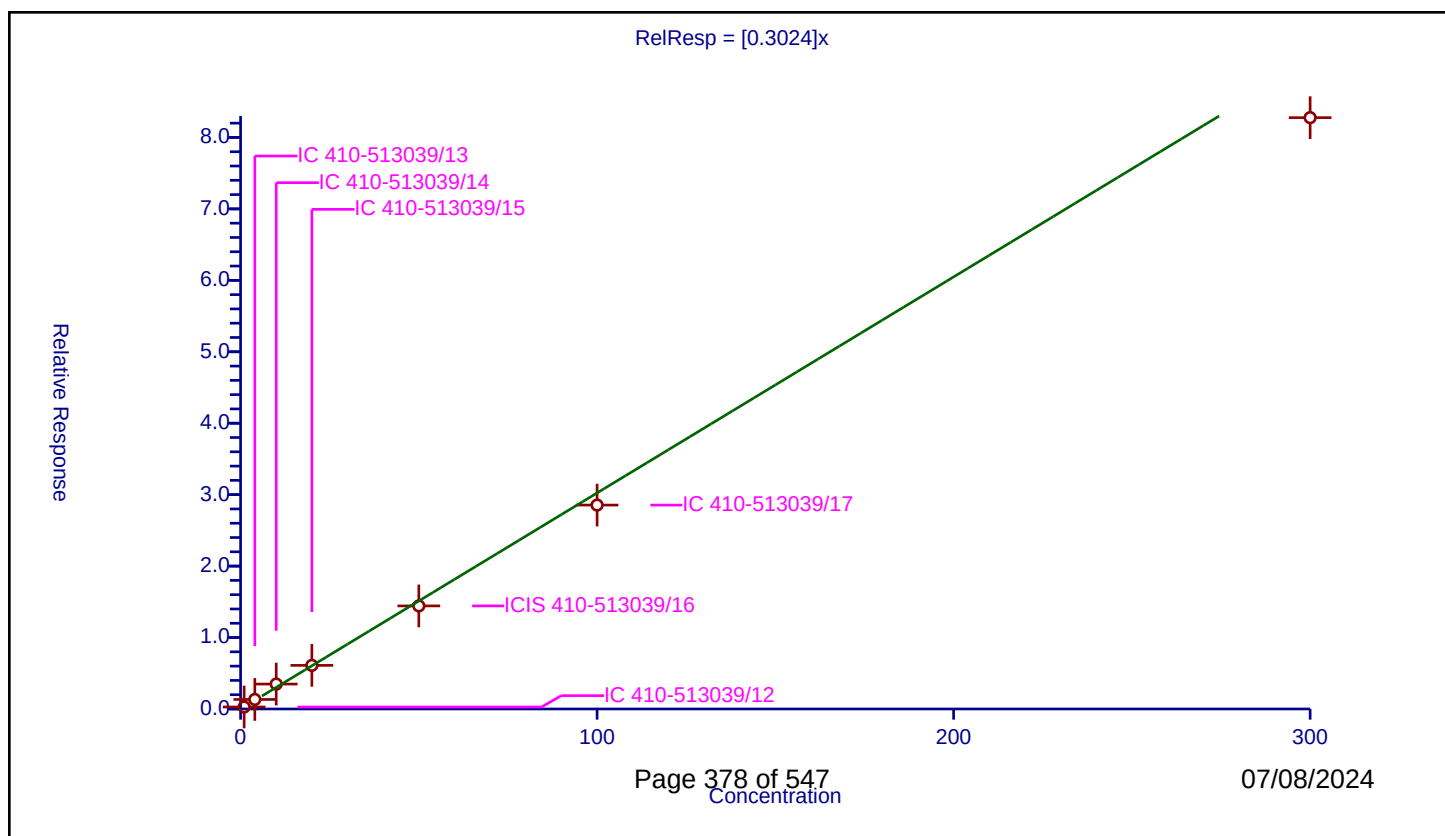
Curve Coefficients

Intercept: 0
Slope: 0.3024

Error Coefficients

Relative Standard Deviation: 9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.279104	50.0	950004.0	0.279104	Y
2	IC 410-513039/13	4.0	1.334088	50.0	973474.0	0.333522	Y
3	IC 410-513039/14	10.0	3.488805	50.0	979275.0	0.348881	Y
4	IC 410-513039/15	20.0	6.106195	50.0	967067.0	0.30531	Y
5	ICIS 410-513039/16	50.0	14.429692	50.0	1028435.0	0.288594	Y
6	IC 410-513039/17	100.0	28.5403	50.0	1027780.0	0.285403	Y
7	IC 410-513039/18	300.0	82.77349	50.0	1077920.0	0.275912	Y



Calibration

/ Dichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

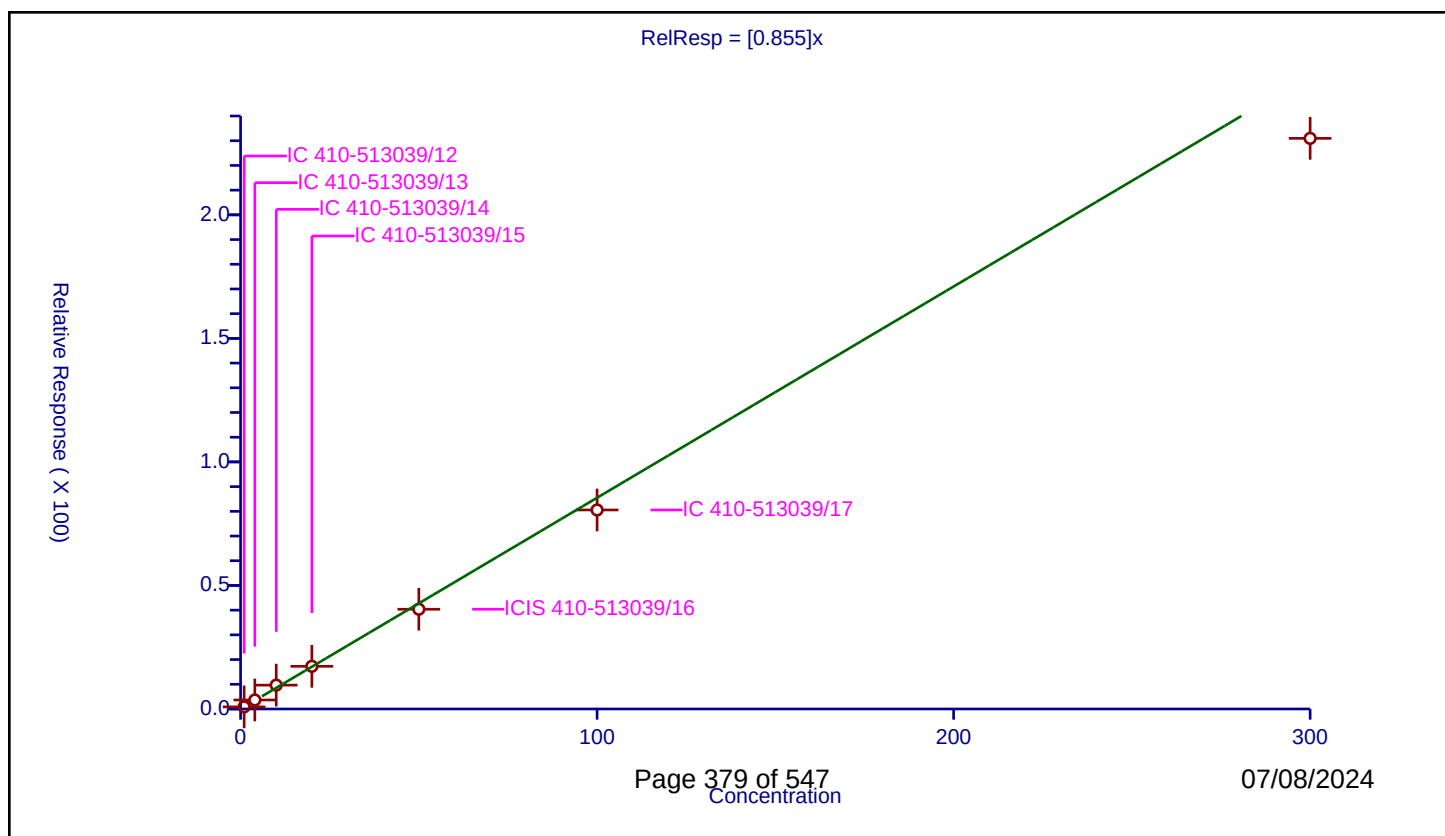
Curve Coefficients

Intercept: 0
Slope: 0.855

Error Coefficients

Relative Standard Deviation: 7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.861733	50.0	950004.0	0.861733	Y
2	IC 410-513039/13	4.0	3.642265	50.0	973474.0	0.910566	Y
3	IC 410-513039/14	10.0	9.65694	50.0	979275.0	0.965694	Y
4	IC 410-513039/15	20.0	17.276673	50.0	967067.0	0.863834	Y
5	ICIS 410-513039/16	50.0	40.372848	50.0	1028435.0	0.807457	Y
6	IC 410-513039/17	100.0	80.558534	50.0	1027780.0	0.805585	Y
7	IC 410-513039/18	300.0	230.953178	50.0	1077920.0	0.769844	Y



Calibration

/ Trichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

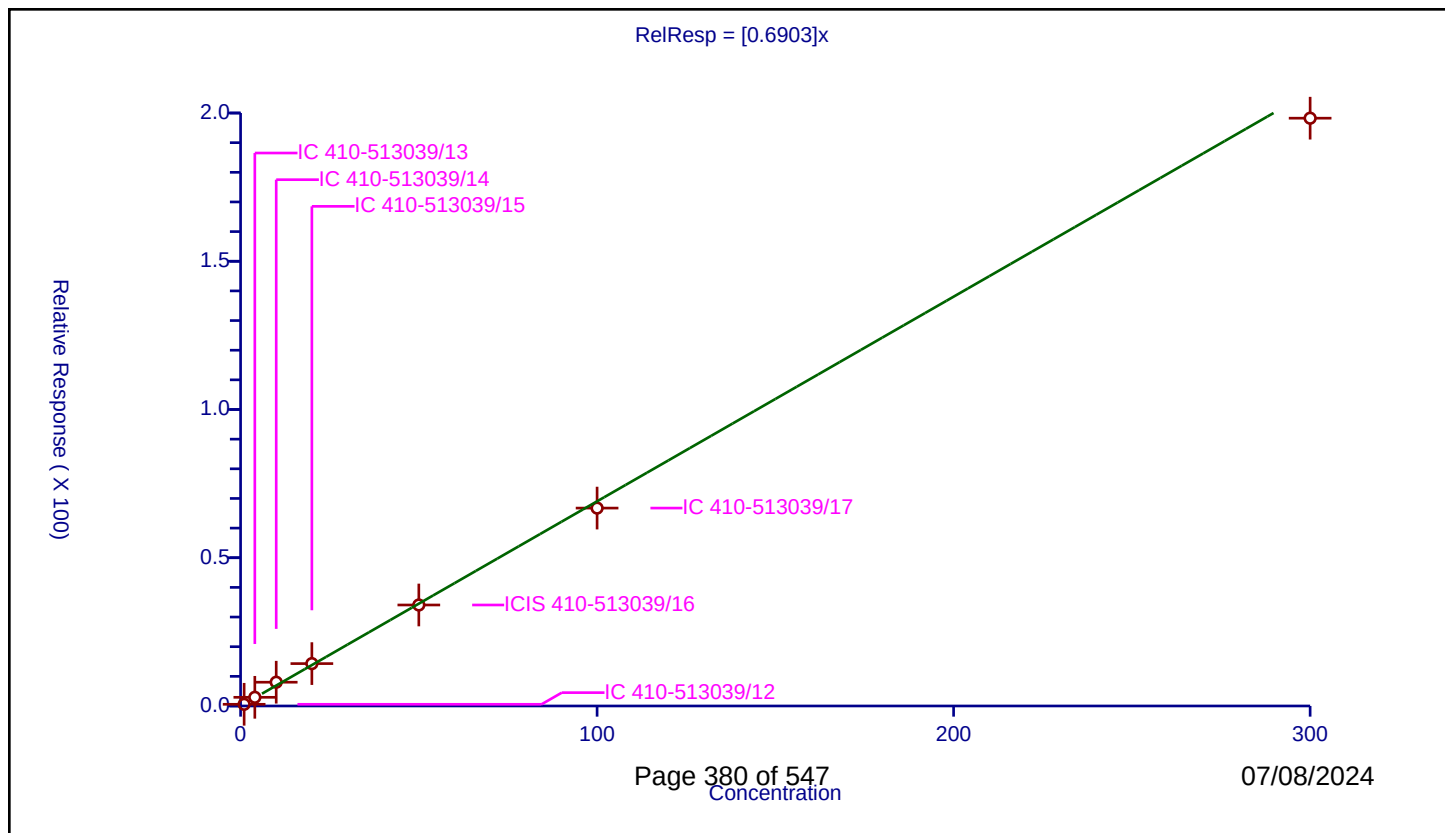
Curve Coefficients

Intercept: 0
Slope: 0.6903

Error Coefficients

Relative Standard Deviation: 10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.574577	50.0	950004.0	0.574577	Y
2	IC 410-513039/13	4.0	2.925759	50.0	973474.0	0.73144	Y
3	IC 410-513039/14	10.0	8.015215	50.0	979275.0	0.801522	Y
4	IC 410-513039/15	20.0	14.295442	50.0	967067.0	0.714772	Y
5	ICIS 410-513039/16	50.0	34.063456	50.0	1028435.0	0.681269	Y
6	IC 410-513039/17	100.0	66.752029	50.0	1027780.0	0.66752	Y
7	IC 410-513039/18	300.0	198.253767	50.0	1077920.0	0.660846	Y



Calibration

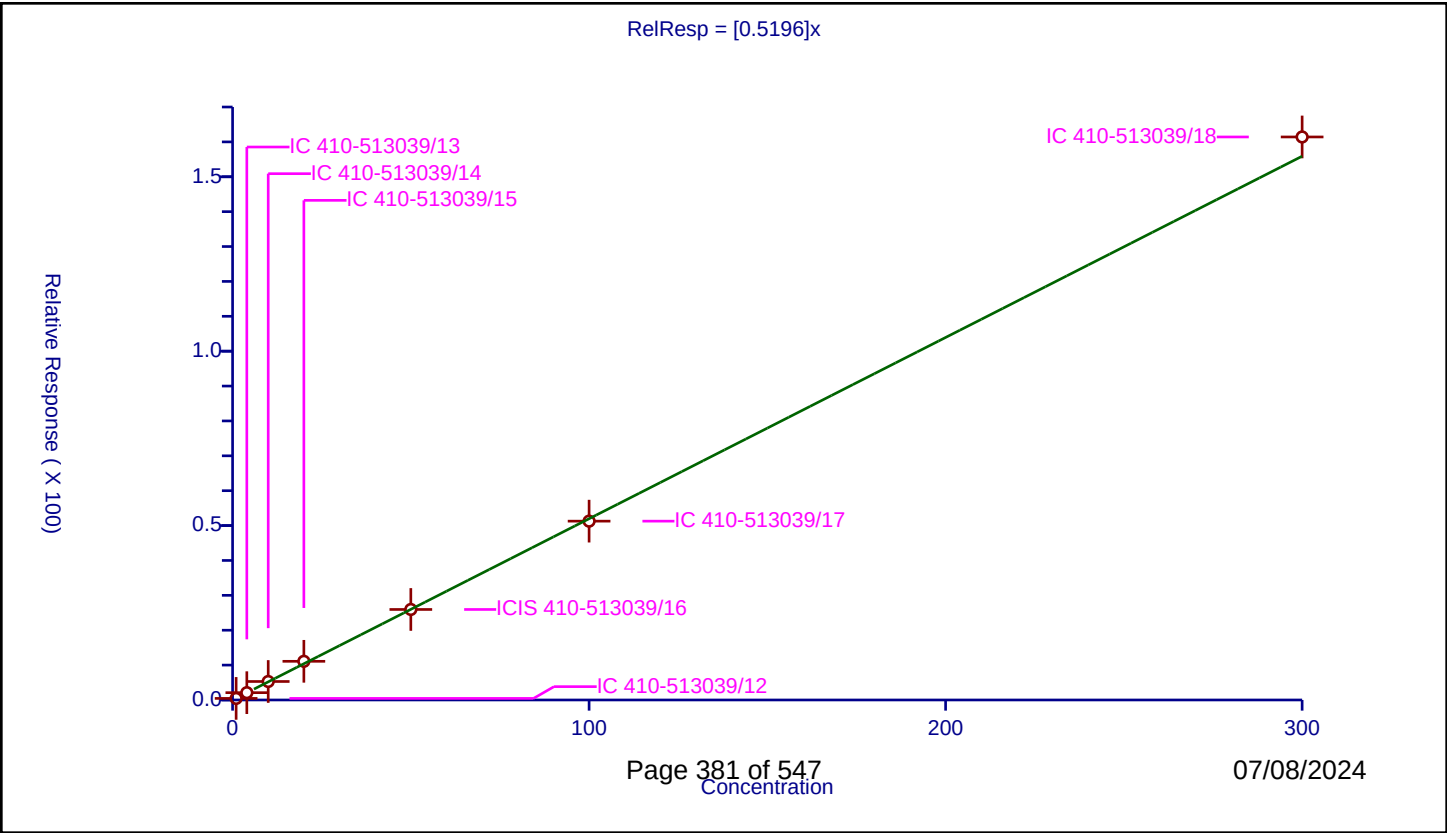
/ Pentane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5196
Error Coefficients	

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.457893	50.0	950004.0	0.457893	Y
2	IC 410-513039/13	4.0	2.101443	50.0	973474.0	0.525361	Y
3	IC 410-513039/14	10.0	5.299584	50.0	979275.0	0.529958	Y
4	IC 410-513039/15	20.0	11.090752	50.0	967067.0	0.554538	Y
5	ICIS 410-513039/16	50.0	25.950595	50.0	1028435.0	0.519012	Y
6	IC 410-513039/17	100.0	51.271478	50.0	1027780.0	0.512715	Y
7	IC 410-513039/18	300.0	161.415458	50.0	1077920.0	0.538052	Y



Calibration

/ Ethanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

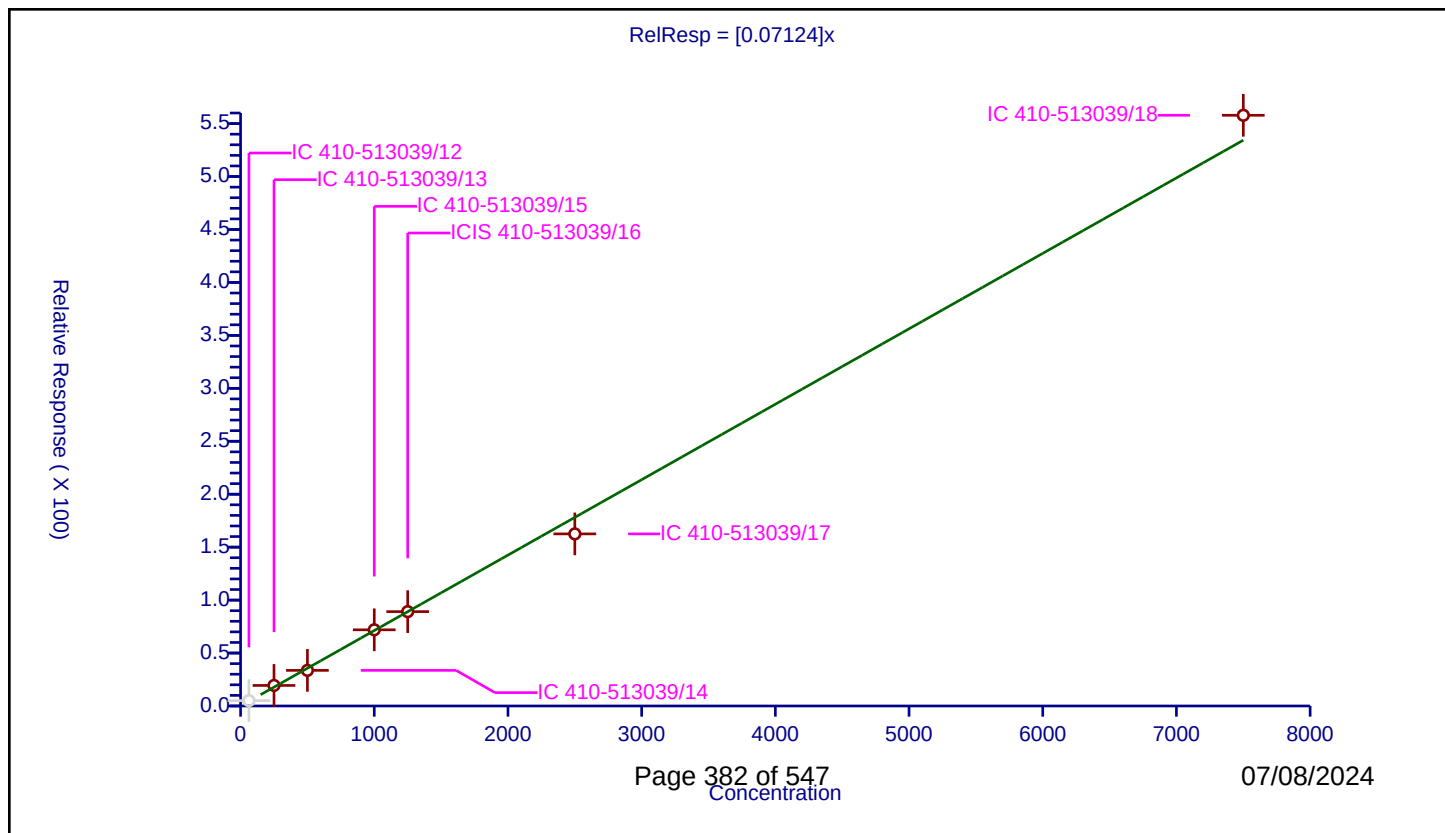
Curve Coefficients

Intercept: 0
Slope: 0.07124

Error Coefficients

Relative Standard Deviation: 6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	62.502462	5.075242	250.0	325748.0	0.081201	N
2	IC 410-513039/13	250.009848	19.395031	250.0	276411.0	0.077577	Y
3	IC 410-513039/14	500.019696	33.630629	250.0	356996.0	0.067259	Y
4	IC 410-513039/15	1000.039392	71.938035	250.0	275640.0	0.071935	Y
5	ICIS 410-513039/16	1250.04924	89.119511	250.0	293746.0	0.071293	Y
6	IC 410-513039/17	2500.09848	162.532168	250.0	305821.0	0.06501	Y
7	IC 410-513039/18	7500.29544	557.851749	250.0	324813.0	0.074377	Y



Calibration

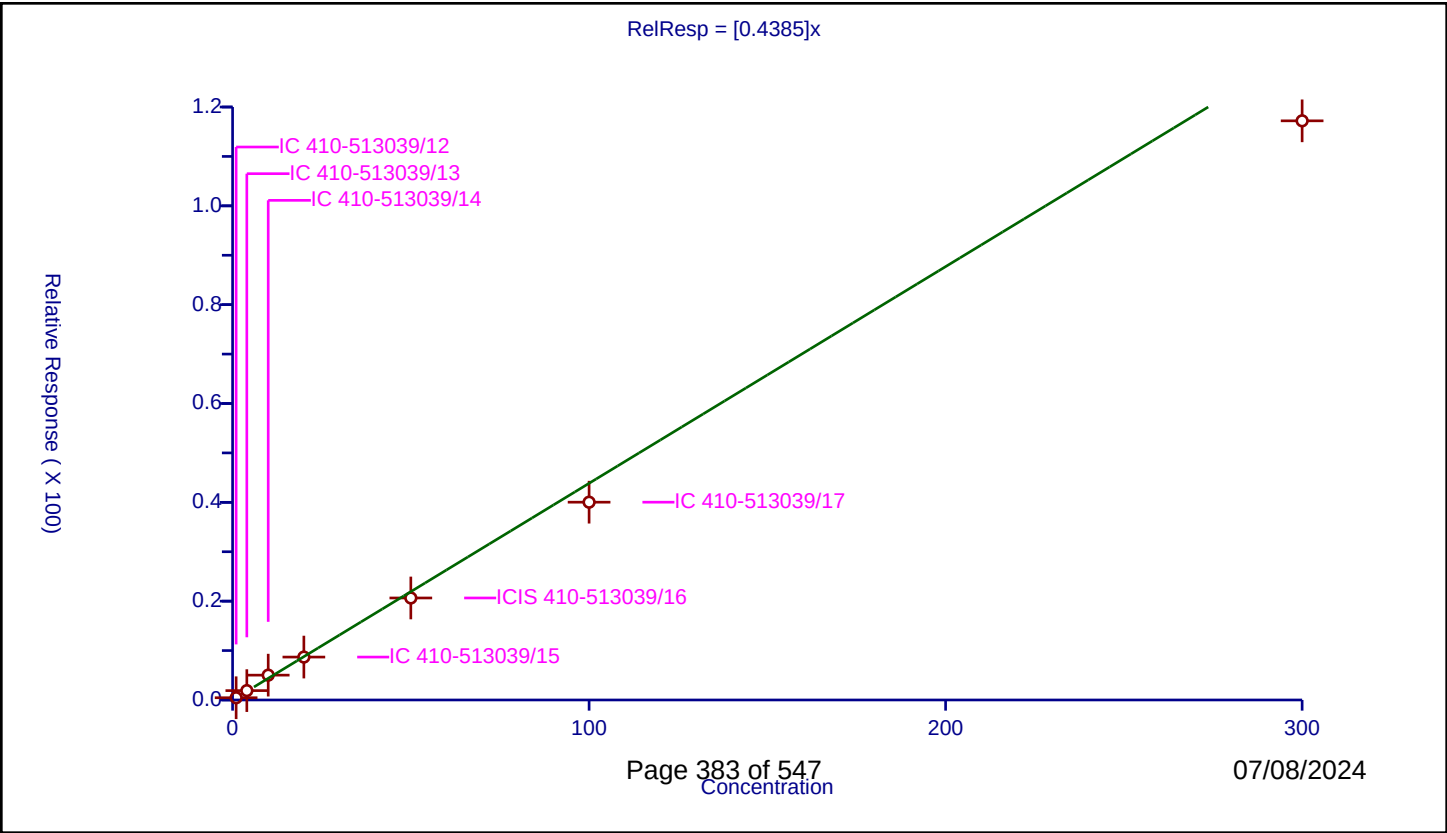
/ 1,2-Dichloro-1,1,2-trifluoroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4385
Error Coefficients	

Relative Standard Deviation: 9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.454577	50.0	950004.0	0.454577	Y
2	IC 410-513039/13	4.0	1.897226	50.0	973474.0	0.474306	Y
3	IC 410-513039/14	10.0	5.02581	50.0	979275.0	0.502581	Y
4	IC 410-513039/15	20.0	8.6843	50.0	967067.0	0.434215	Y
5	ICIS 410-513039/16	50.0	20.641946	50.0	1028435.0	0.412839	Y
6	IC 410-513039/17	100.0	40.030113	50.0	1027780.0	0.400301	Y
7	IC 410-513039/18	300.0	117.205451	50.0	1077920.0	0.390685	Y

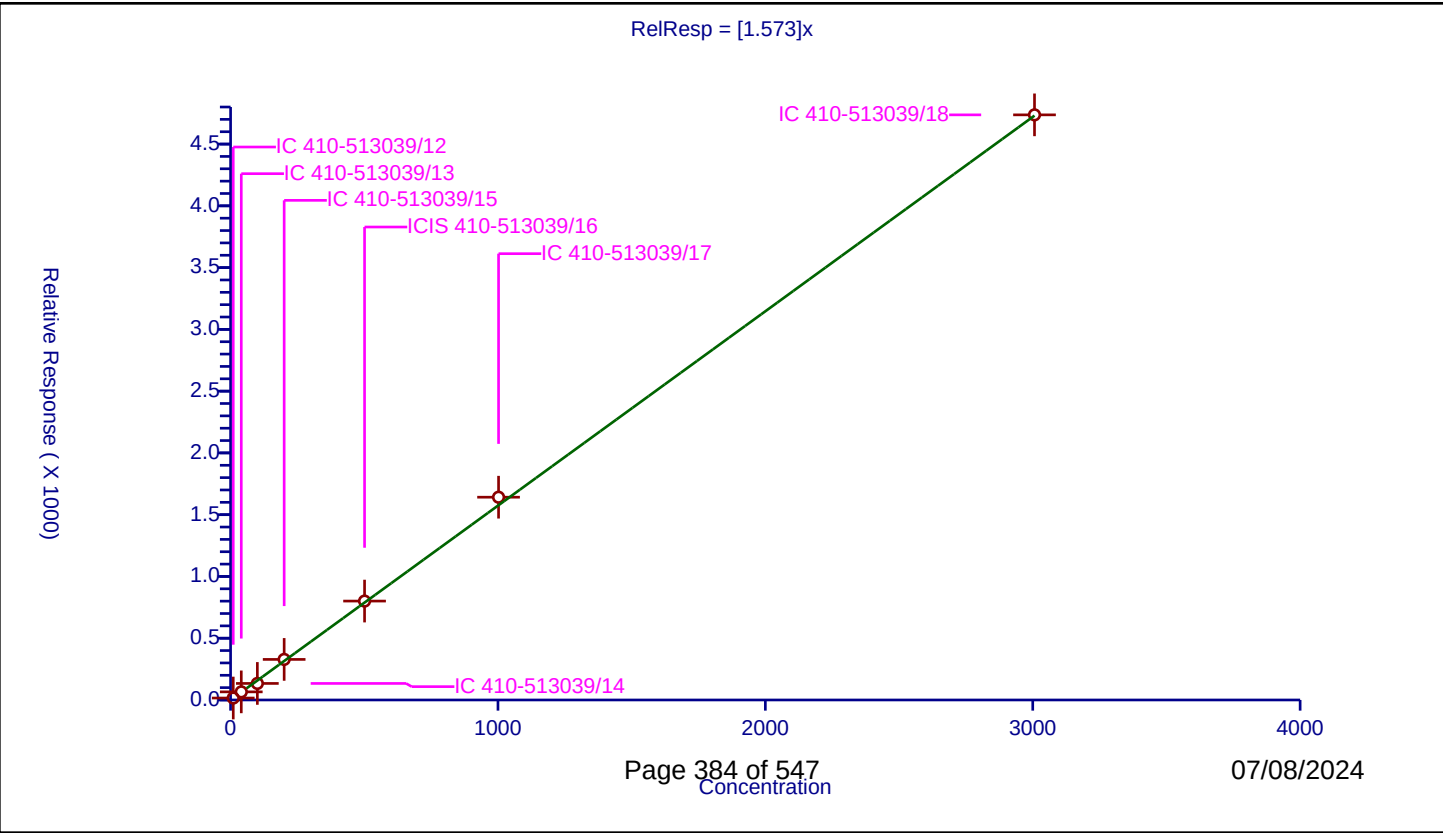


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.573

Error Coefficients	
Relative Standard Deviation:	
	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	10.021996	15.919514	250.0	325748.0	1.588457	Y
2	IC 410-513039/13	40.087985	65.625102	250.0	276411.0	1.637027	Y
3	IC 410-513039/14	100.219963	134.030213	250.0	356996.0	1.33736	Y
4	IC 410-513039/15	200.439925	328.505478	250.0	275640.0	1.638922	Y
5	ICIS 410-513039/16	501.099813	800.710478	250.0	293746.0	1.597906	Y
6	IC 410-513039/17	1002.199626	1641.456931	250.0	305821.0	1.637854	Y
7	IC 410-513039/18	3006.598878	4736.602291	250.0	324813.0	1.575402	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

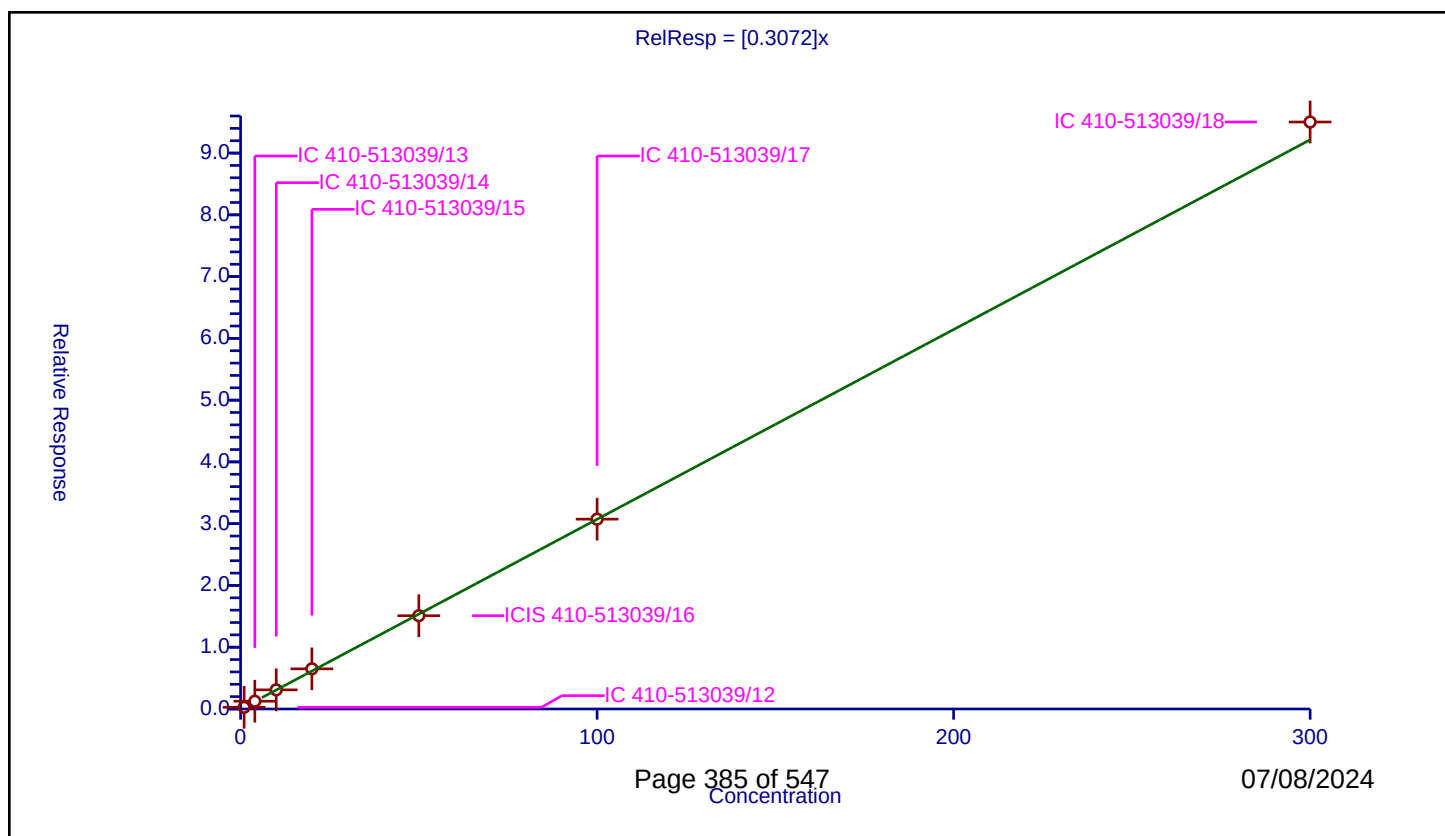
Curve Coefficients

Intercept: 0
Slope: 0.3072

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.274157	50.0	950004.0	0.274157	Y
2	IC 410-513039/13	4.0	1.260332	50.0	973474.0	0.315083	Y
3	IC 410-513039/14	10.0	3.099181	50.0	979275.0	0.309918	Y
4	IC 410-513039/15	20.0	6.49743	50.0	967067.0	0.324871	Y
5	ICIS 410-513039/16	50.0	15.100079	50.0	1028435.0	0.302002	Y
6	IC 410-513039/17	100.0	30.730798	50.0	1027780.0	0.307308	Y
7	IC 410-513039/18	300.0	95.029269	50.0	1077920.0	0.316764	Y



Calibration

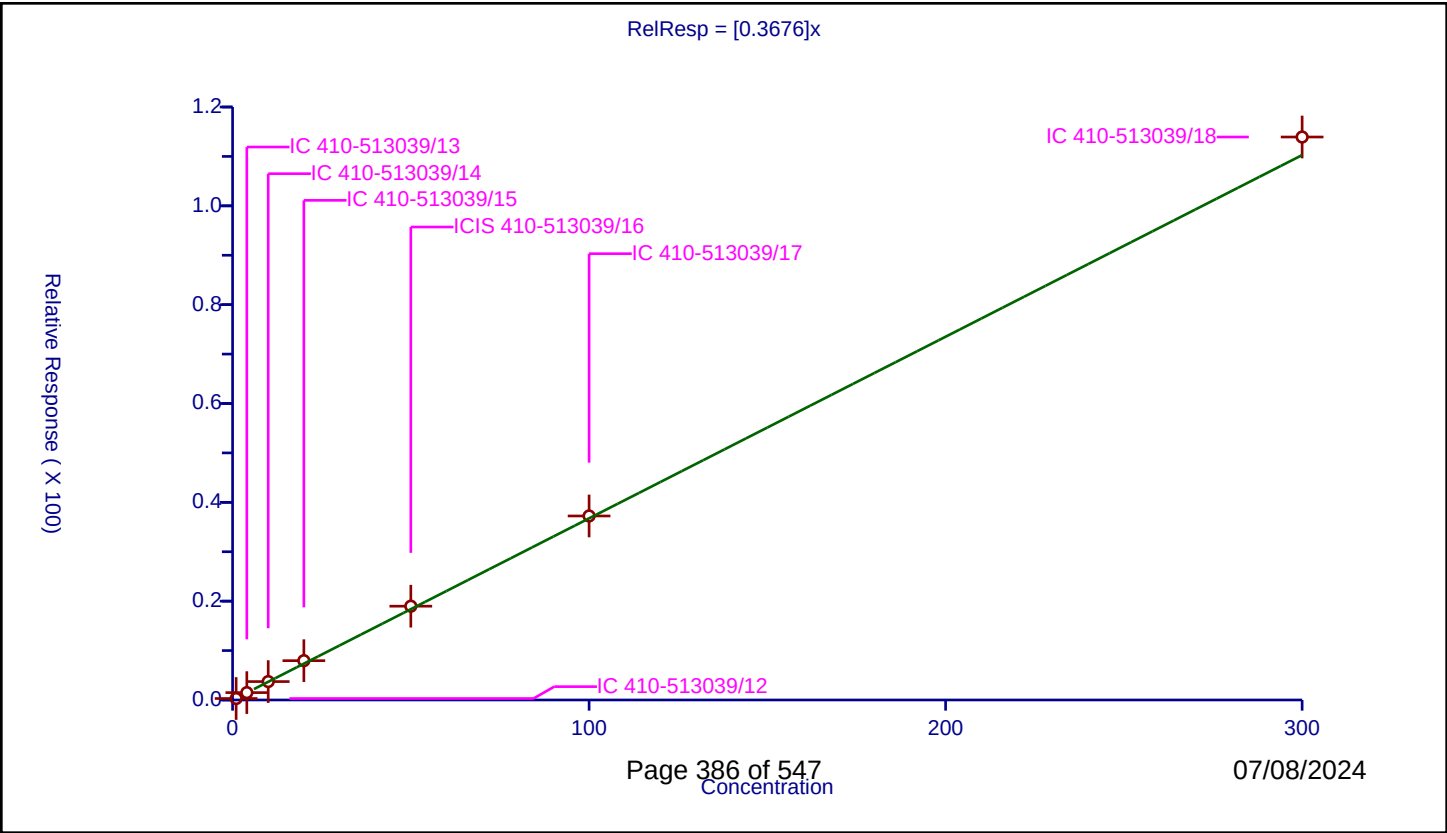
/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3676
Error Coefficients	

Relative Standard Deviation: 8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.297051	50.0	950004.0	0.297051	Y
2	IC 410-513039/13	4.0	1.494185	50.0	973474.0	0.373546	Y
3	IC 410-513039/14	10.0	3.728268	50.0	979275.0	0.372827	Y
4	IC 410-513039/15	20.0	7.956377	50.0	967067.0	0.397819	Y
5	ICIS 410-513039/16	50.0	18.980393	50.0	1028435.0	0.379608	Y
6	IC 410-513039/17	100.0	37.23759	50.0	1027780.0	0.372376	Y
7	IC 410-513039/18	300.0	113.927564	50.0	1077920.0	0.379759	Y



Calibration

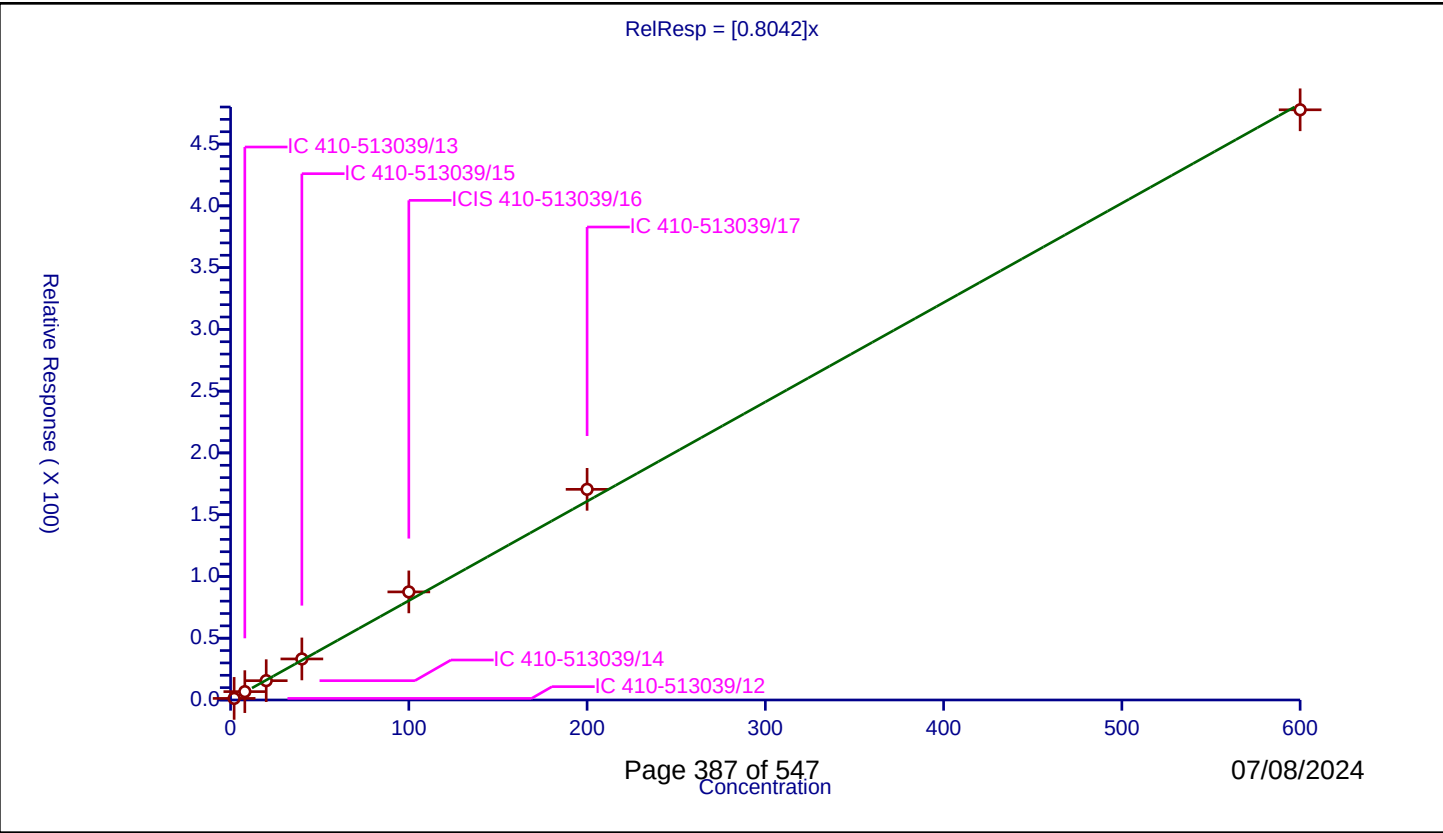
/ Acetone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8042
Error Coefficients	

Relative Standard Deviation: 9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	2.0	1.29241	250.0	325748.0	0.646205	Y
2	IC 410-513039/13	8.0	6.771619	250.0	276411.0	0.846452	Y
3	IC 410-513039/14	20.0	15.647934	250.0	356996.0	0.782397	Y
4	IC 410-513039/15	40.0	33.227217	250.0	275640.0	0.83068	Y
5	ICIS 410-513039/16	100.0	87.498213	250.0	293746.0	0.874982	Y
6	IC 410-513039/17	200.0	170.525405	250.0	305821.0	0.852627	Y
7	IC 410-513039/18	600.0	477.753353	250.0	324813.0	0.796256	Y



Calibration

/ Isopropyl alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

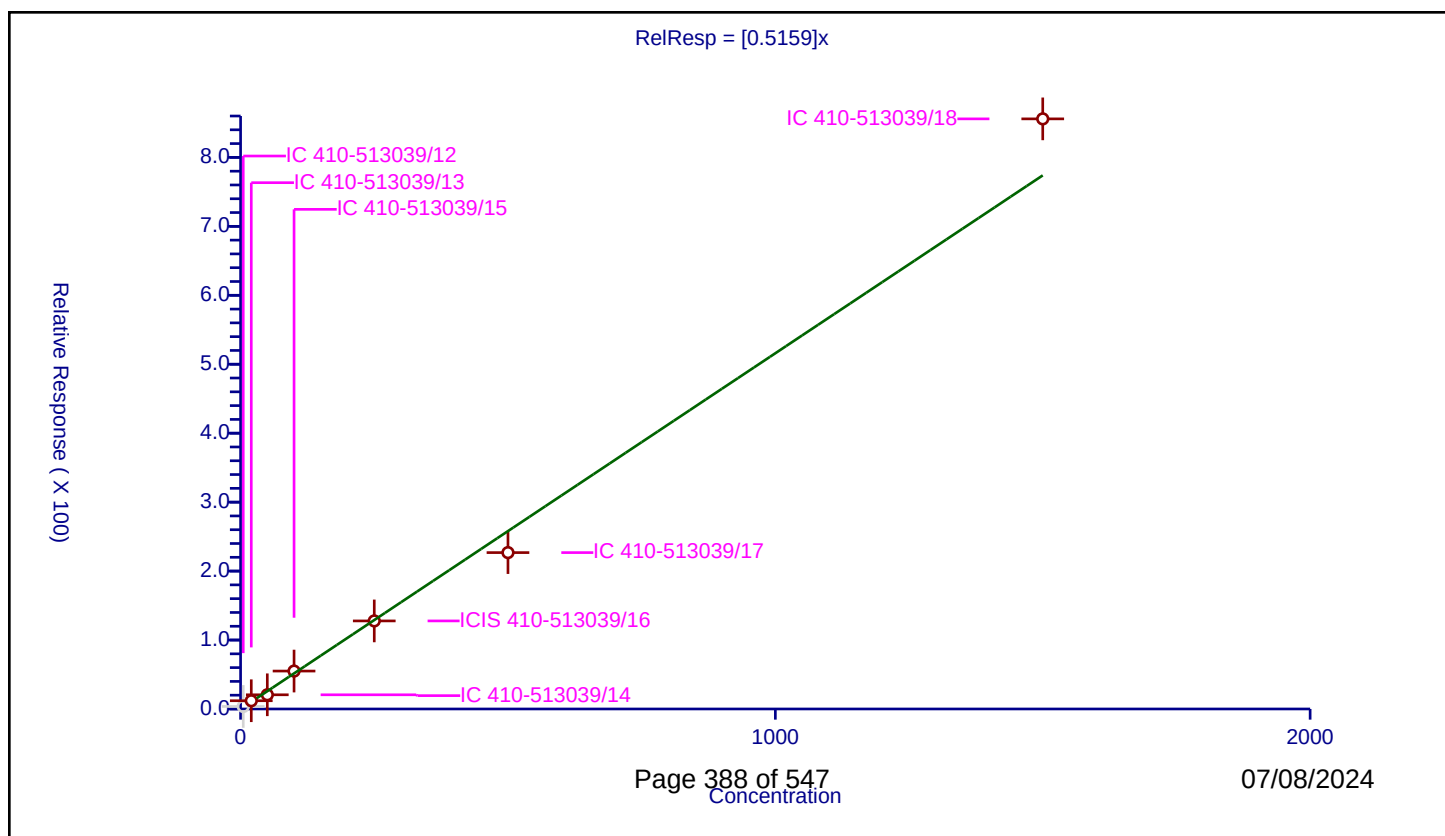
Curve Coefficients

Intercept: 0
Slope: 0.5159

Error Coefficients

Relative Standard Deviation: 13.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	5.0	3.639316	250.0	325748.0	0.727863	N
2	IC 410-513039/13	20.0	11.966781	250.0	276411.0	0.598339	Y
3	IC 410-513039/14	50.0	20.612276	250.0	356996.0	0.412246	Y
4	IC 410-513039/15	100.0	54.99746	250.0	275640.0	0.549975	Y
5	ICIS 410-513039/16	250.0	127.728548	250.0	293746.0	0.510914	Y
6	IC 410-513039/17	500.0	226.796884	250.0	305821.0	0.453594	Y
7	IC 410-513039/18	1500.0	855.857062	250.0	324813.0	0.570571	Y



Calibration

/ Iodomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

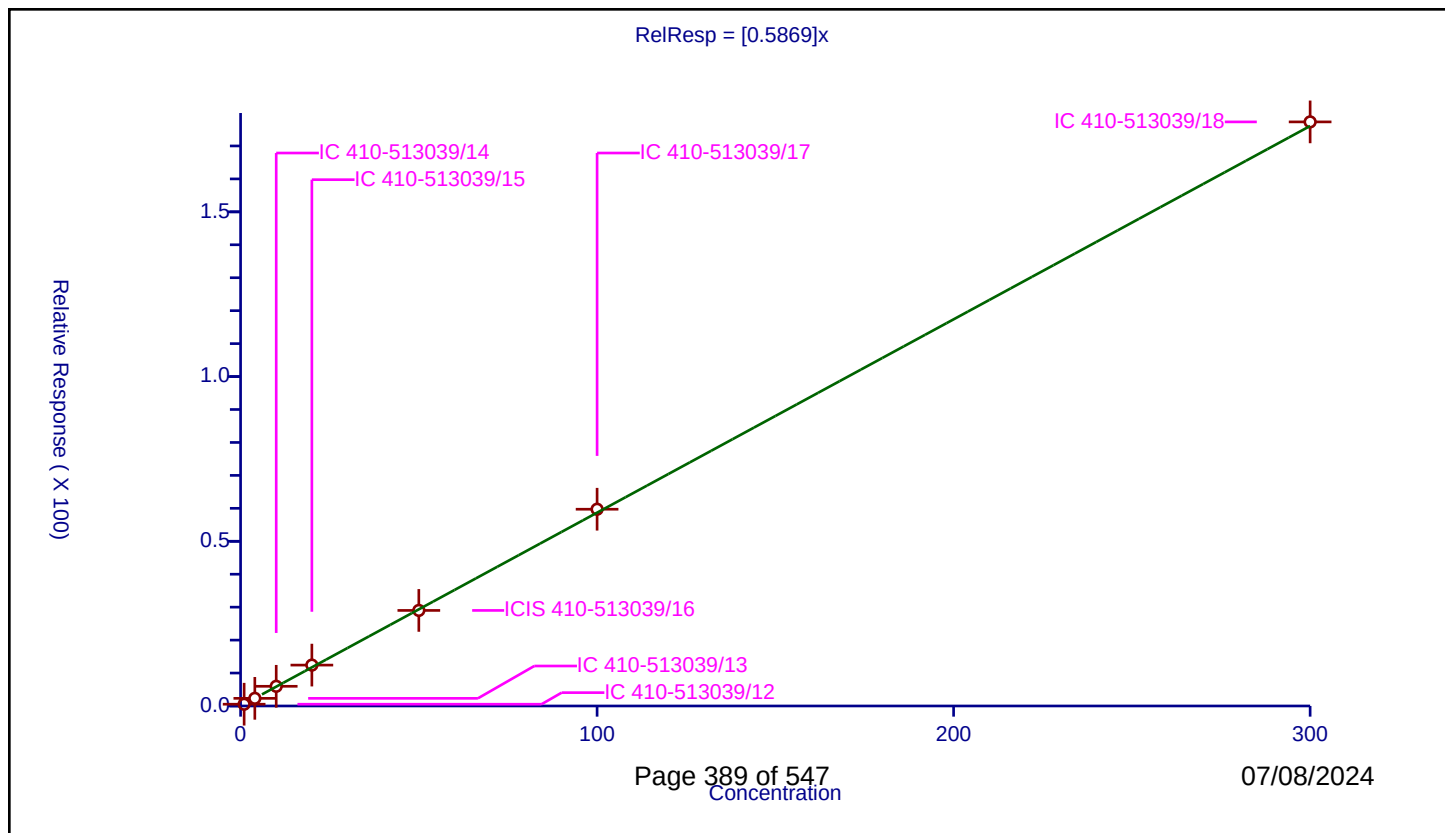
Curve Coefficients

Intercept: 0
 Slope: 0.5869

Error Coefficients

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.541208	50.0	950004.0	0.541208	Y
2	IC 410-513039/13	4.0	2.320658	50.0	973474.0	0.580164	Y
3	IC 410-513039/14	10.0	5.977024	50.0	979275.0	0.597702	Y
4	IC 410-513039/15	20.0	12.410619	50.0	967067.0	0.620531	Y
5	ICIS 410-513039/16	50.0	29.010098	50.0	1028435.0	0.580202	Y
6	IC 410-513039/17	100.0	59.726449	50.0	1027780.0	0.597264	Y
7	IC 410-513039/18	300.0	177.300635	50.0	1077920.0	0.591002	Y



Calibration

/ Carbon disulfide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

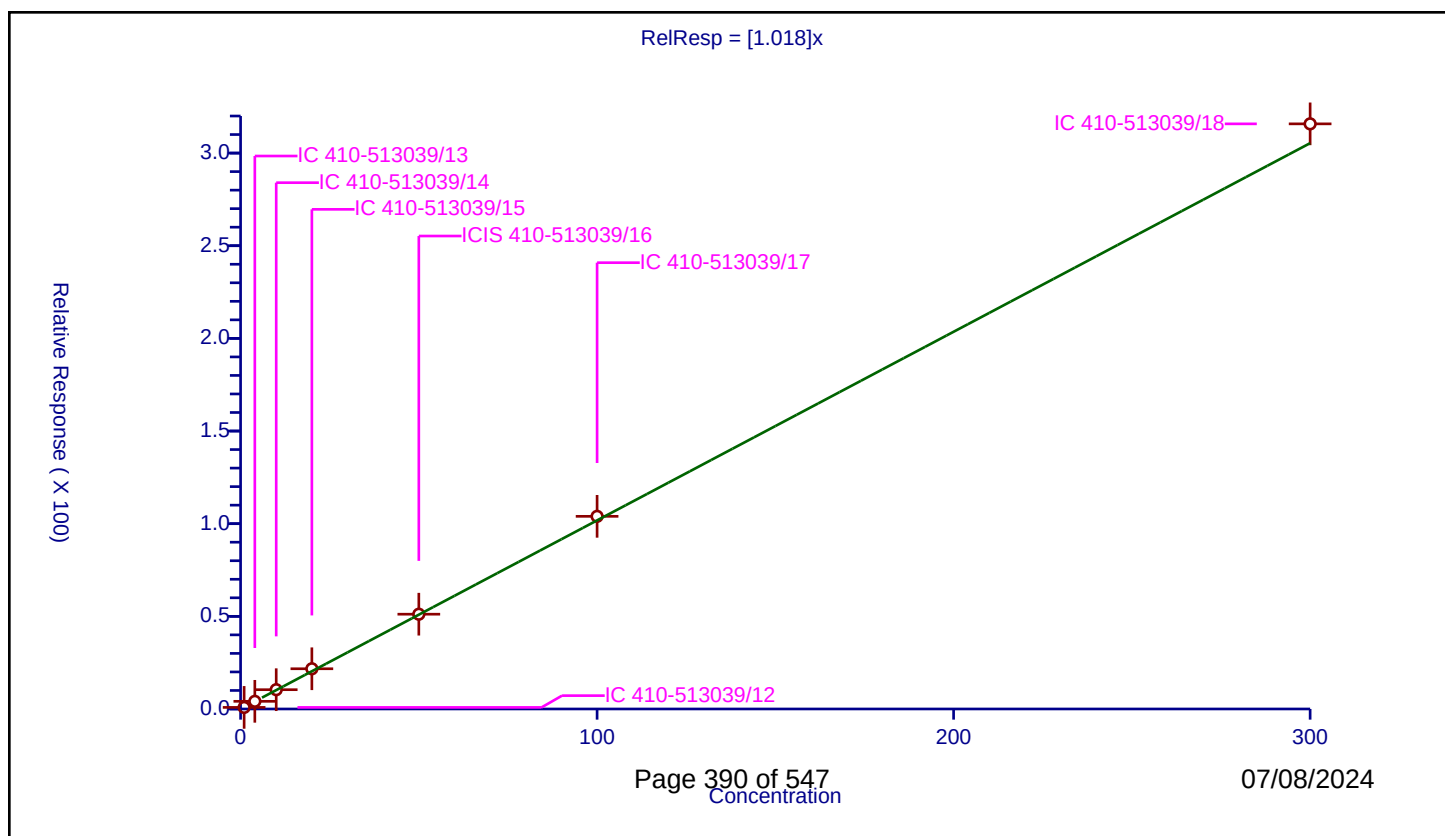
Curve Coefficients

Intercept: 0
 Slope: 1.018

Error Coefficients

Relative Standard Deviation: 7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.84947	50.0	950004.0	0.84947	Y
2	IC 410-513039/13	4.0	4.132571	50.0	973474.0	1.033143	Y
3	IC 410-513039/14	10.0	10.415665	50.0	979275.0	1.041566	Y
4	IC 410-513039/15	20.0	21.707441	50.0	967067.0	1.085372	Y
5	ICIS 410-513039/16	50.0	51.150875	50.0	1028435.0	1.023017	Y
6	IC 410-513039/17	100.0	103.964856	50.0	1027780.0	1.039649	Y
7	IC 410-513039/18	300.0	315.770558	50.0	1077920.0	1.052569	Y



Calibration

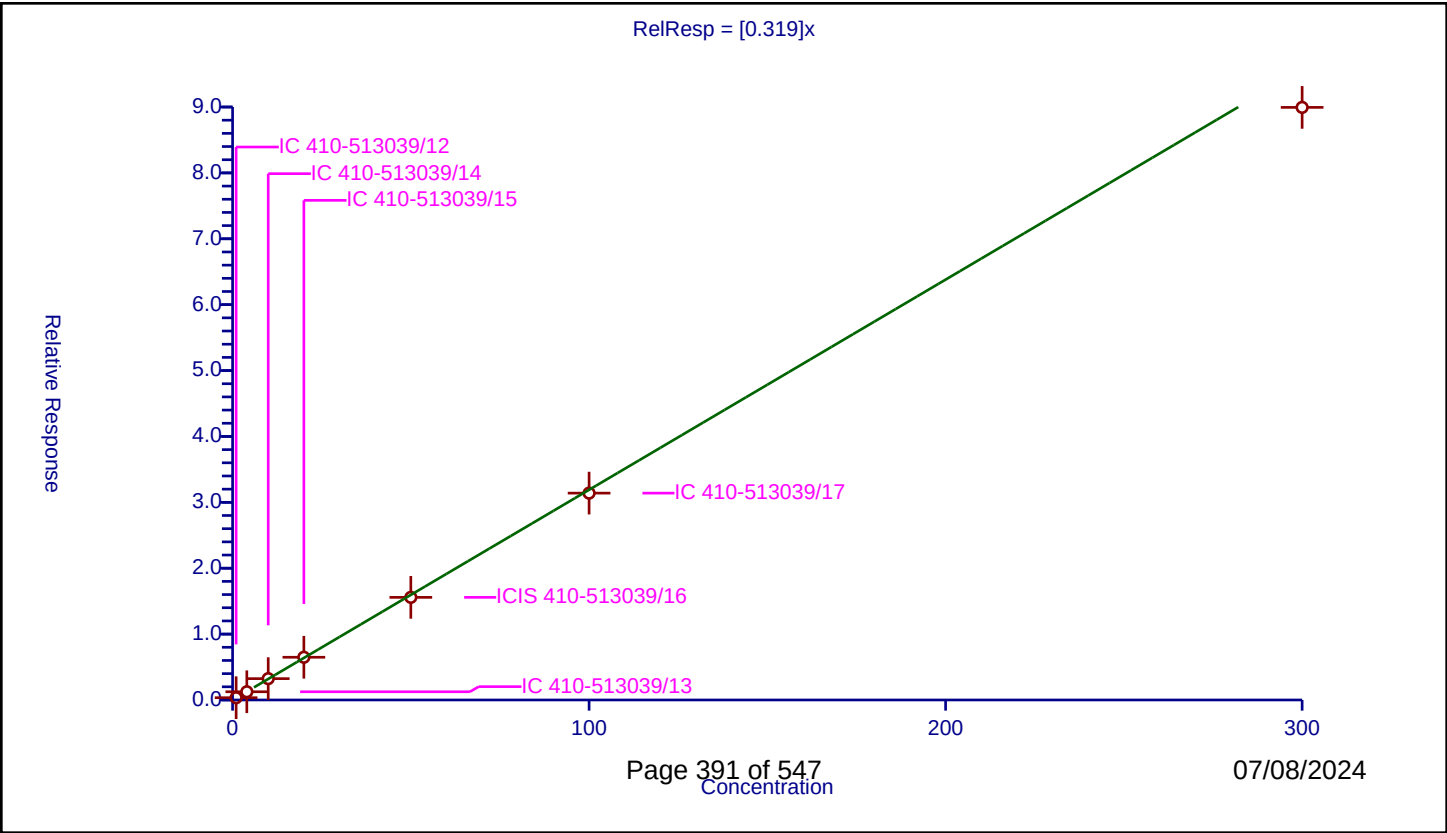
/ Methyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.319

Error Coefficients	
Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.346946	50.0	950004.0	0.346946	Y
2	IC 410-513039/13	4.0	1.250316	50.0	973474.0	0.312579	Y
3	IC 410-513039/14	10.0	3.238825	50.0	979275.0	0.323882	Y
4	IC 410-513039/15	20.0	6.4874	50.0	967067.0	0.32437	Y
5	ICIS 410-513039/16	50.0	15.577212	50.0	1028435.0	0.311544	Y
6	IC 410-513039/17	100.0	31.397867	50.0	1027780.0	0.313979	Y
7	IC 410-513039/18	300.0	89.941786	50.0	1077920.0	0.299806	Y

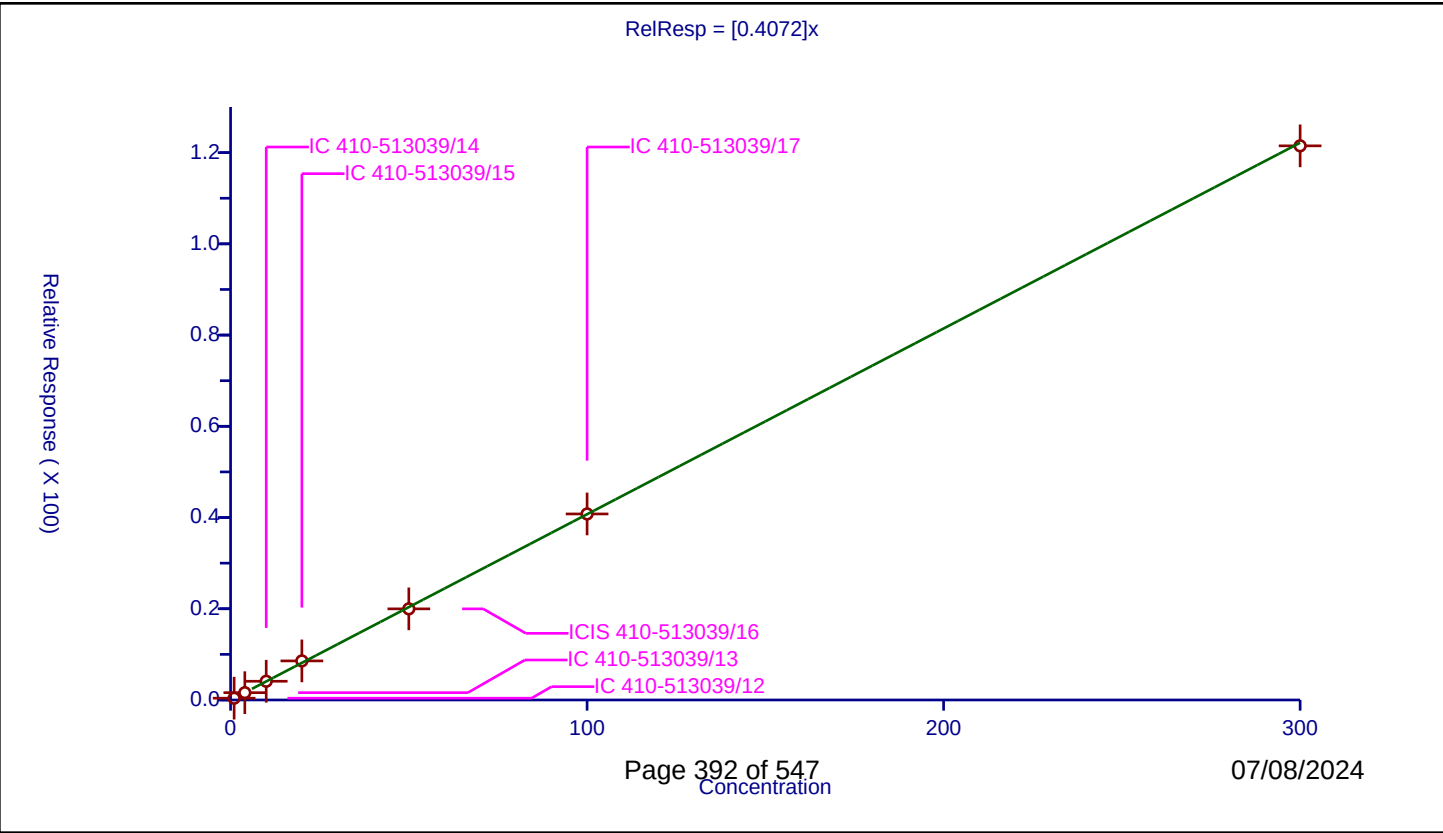


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4072
Error Coefficients	

Relative Standard Deviation: 2.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.397367	50.0	950004.0	0.397367	Y
2	IC 410-513039/13	4.0	1.605179	50.0	973474.0	0.401295	Y
3	IC 410-513039/14	10.0	4.108141	50.0	979275.0	0.410814	Y
4	IC 410-513039/15	20.0	8.569882	50.0	967067.0	0.428494	Y
5	ICIS 410-513039/16	50.0	19.981623	50.0	1028435.0	0.399632	Y
6	IC 410-513039/17	100.0	40.788642	50.0	1027780.0	0.407886	Y
7	IC 410-513039/18	300.0	121.489443	50.0	1077920.0	0.404965	Y



Calibration

/ Methylene Chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

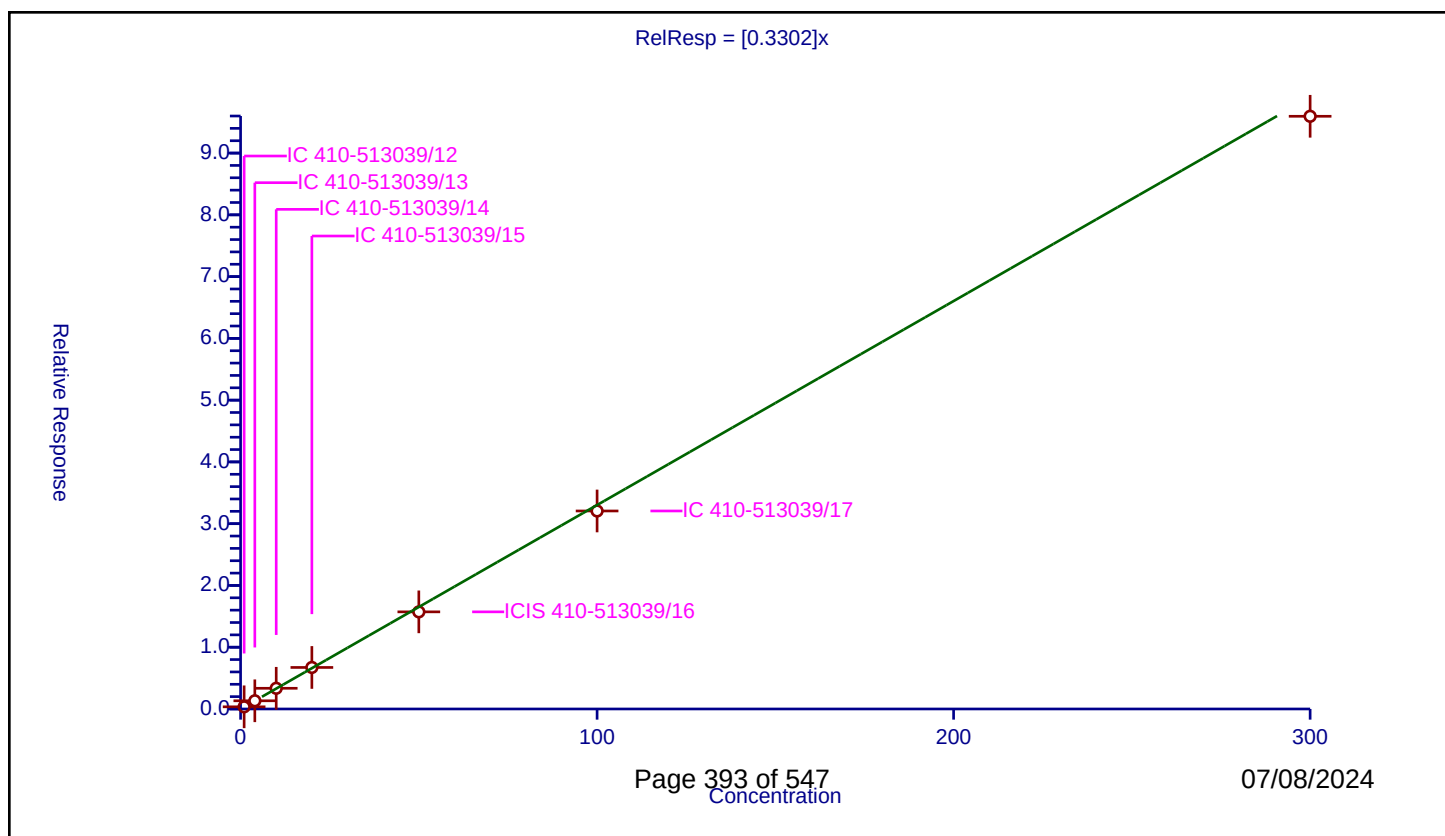
Curve Coefficients

Intercept: 0
Slope: 0.3302

Error Coefficients

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.353788	50.0	950004.0	0.353788	Y
2	IC 410-513039/13	4.0	1.326384	50.0	973474.0	0.331596	Y
3	IC 410-513039/14	10.0	3.350846	50.0	979275.0	0.335085	Y
4	IC 410-513039/15	20.0	6.723216	50.0	967067.0	0.336161	Y
5	ICIS 410-513039/16	50.0	15.724134	50.0	1028435.0	0.314483	Y
6	IC 410-513039/17	100.0	32.055596	50.0	1027780.0	0.320556	Y
7	IC 410-513039/18	300.0	95.954895	50.0	1077920.0	0.31985	Y



Calibration

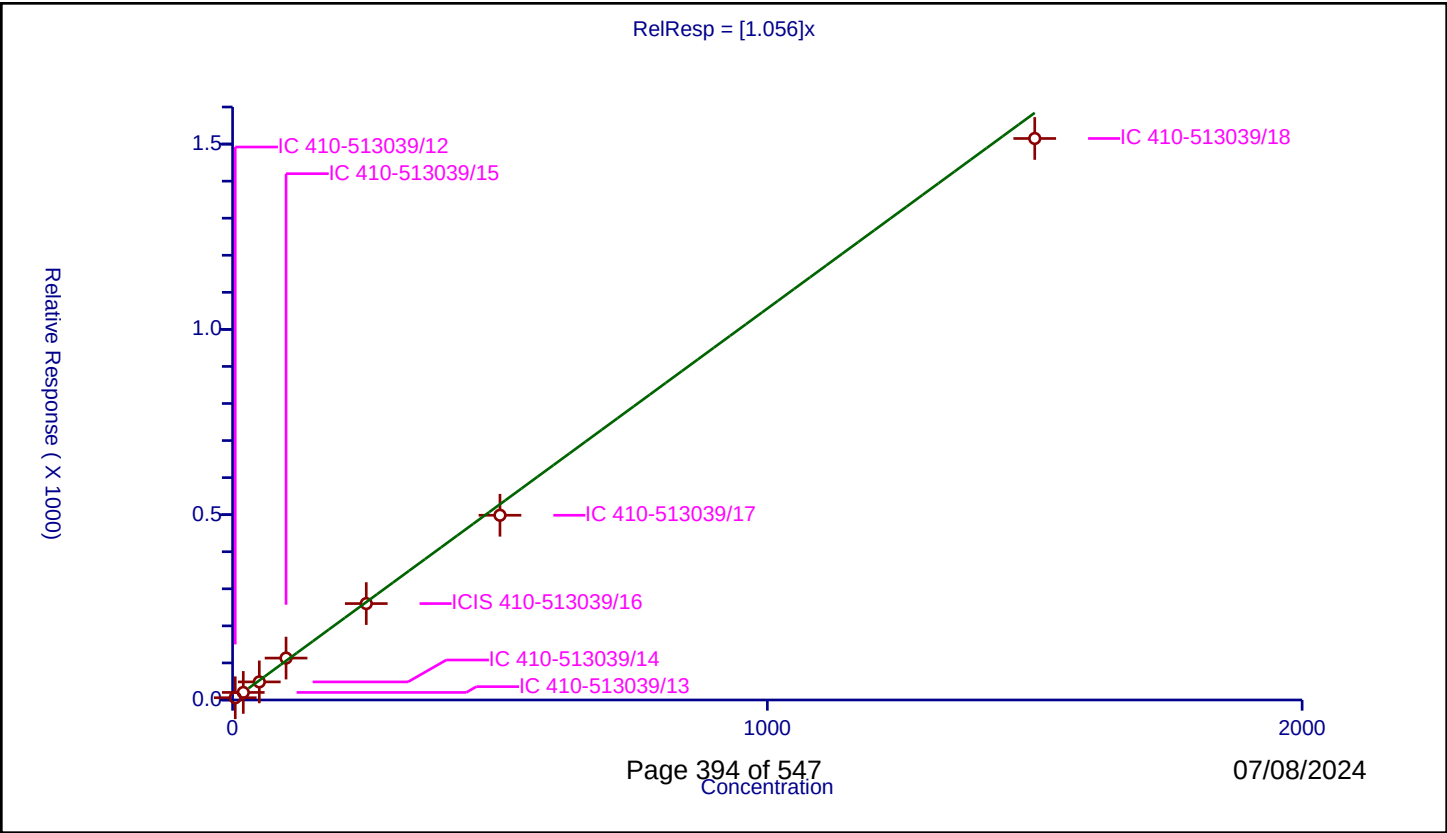
/ 2-Methyl-2-propanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.056
Error Coefficients	

Relative Standard Deviation: 8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	5.0	6.094435	250.0	325748.0	1.218887	Y
2	IC 410-513039/13	20.0	20.416156	250.0	276411.0	1.020808	Y
3	IC 410-513039/14	50.0	48.788362	250.0	356996.0	0.975767	Y
4	IC 410-513039/15	100.0	113.054165	250.0	275640.0	1.130542	Y
5	ICIS 410-513039/16	250.0	260.122691	250.0	293746.0	1.040491	Y
6	IC 410-513039/17	500.0	498.484408	250.0	305821.0	0.996969	Y
7	IC 410-513039/18	1500.0	1515.080985	250.0	324813.0	1.010054	Y



Calibration

/ Acrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

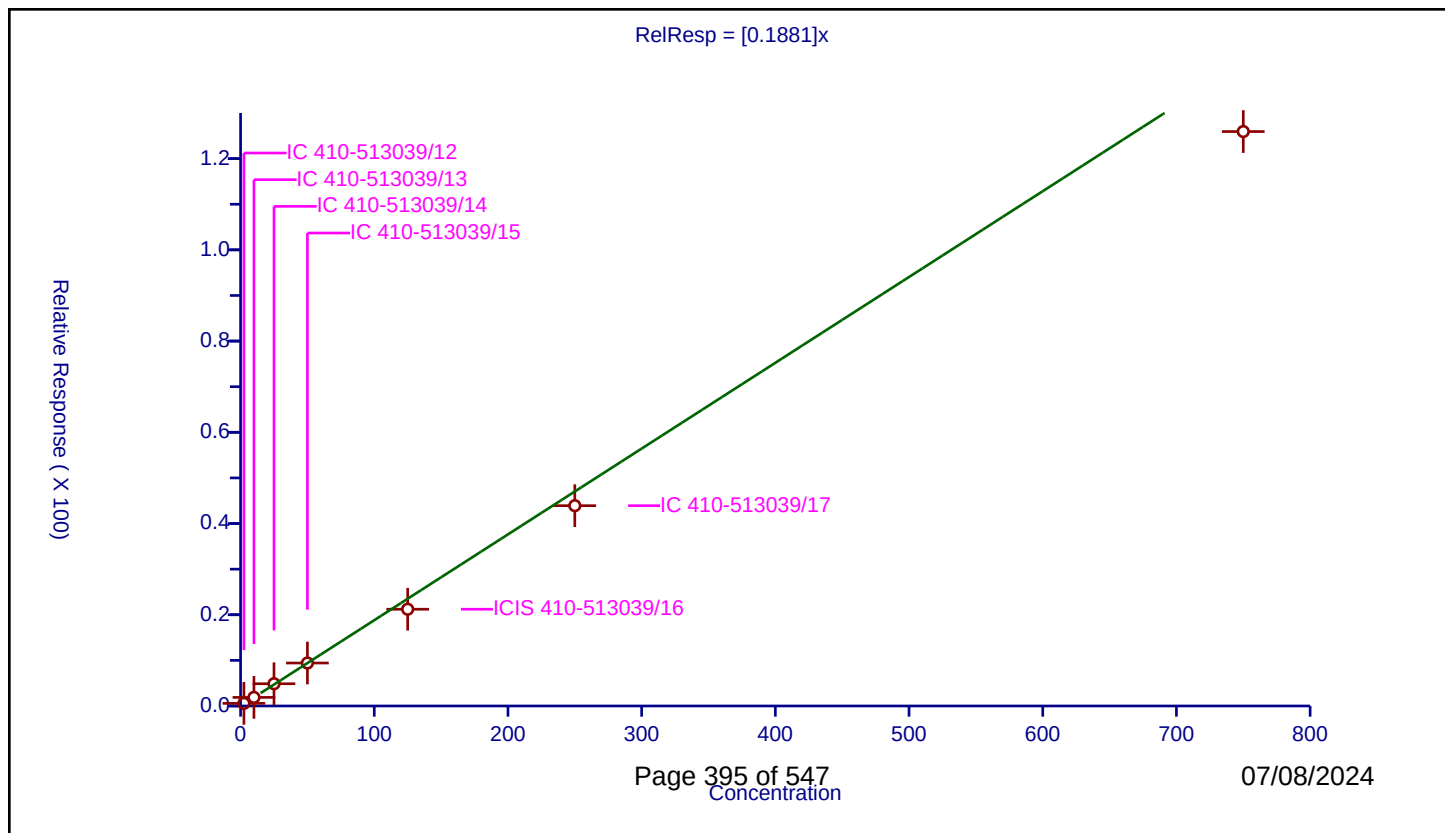
Curve Coefficients

Intercept: 0
 Slope: 0.1881

Error Coefficients

Relative Standard Deviation: 11.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	2.5	0.57784	50.0	950004.0	0.231136	Y
2	IC 410-513039/13	10.0	1.886697	50.0	973474.0	0.18867	Y
3	IC 410-513039/14	25.0	4.879018	50.0	979275.0	0.195161	Y
4	IC 410-513039/15	50.0	9.420392	50.0	967067.0	0.188408	Y
5	ICIS 410-513039/16	125.0	21.215439	50.0	1028435.0	0.169724	Y
6	IC 410-513039/17	250.0	43.914992	50.0	1027780.0	0.17566	Y
7	IC 410-513039/18	750.0	125.938613	50.0	1077920.0	0.167918	Y



Calibration

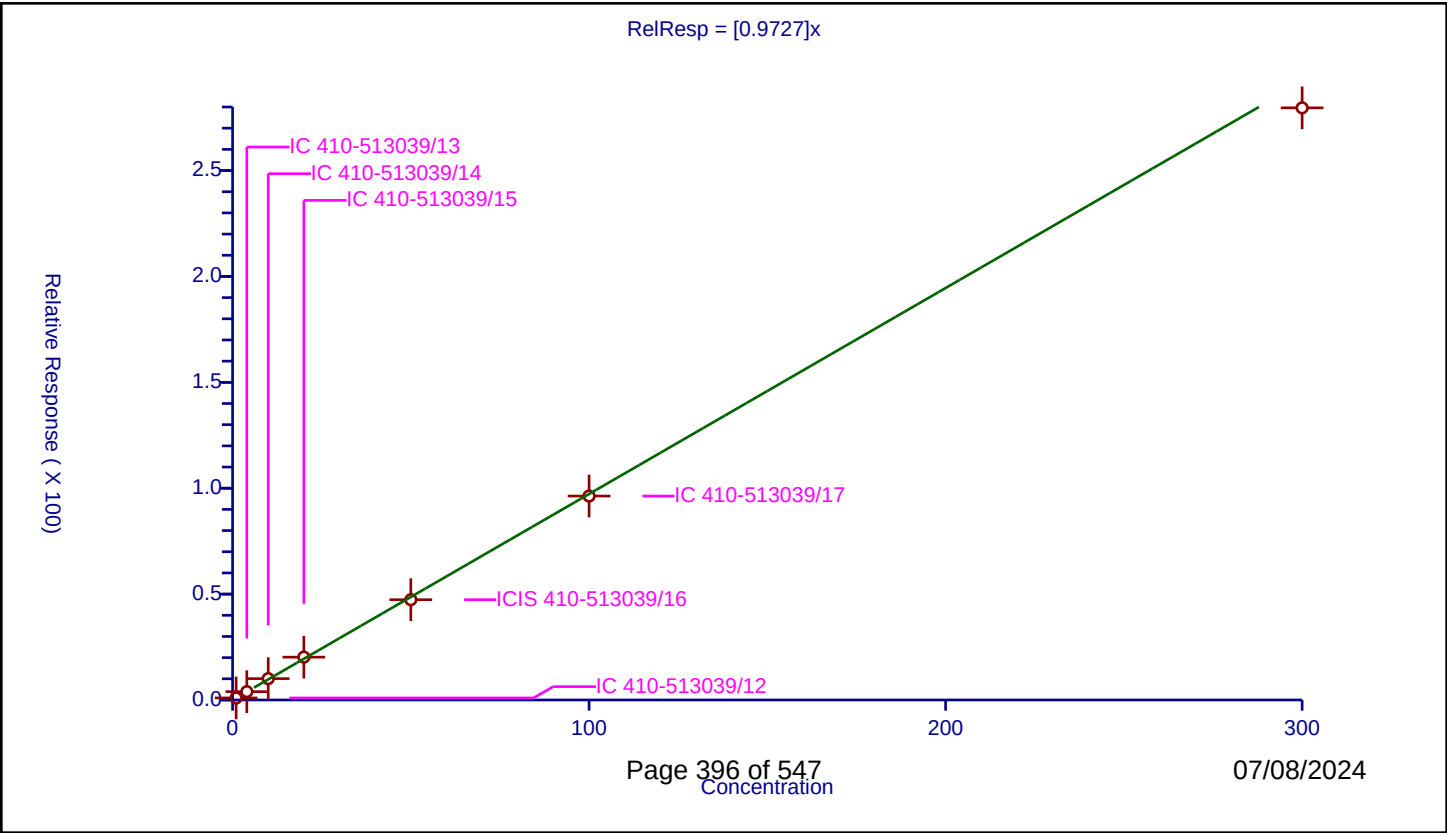
/ Methyl tert-butyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9727
Error Coefficients	

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.962364	50.0	950004.0	0.962364	Y
2	IC 410-513039/13	4.0	3.937804	50.0	973474.0	0.984451	Y
3	IC 410-513039/14	10.0	10.079191	50.0	979275.0	1.007919	Y
4	IC 410-513039/15	20.0	20.232673	50.0	967067.0	1.011634	Y
5	ICIS 410-513039/16	50.0	47.357149	50.0	1028435.0	0.947143	Y
6	IC 410-513039/17	100.0	96.30164	50.0	1027780.0	0.963016	Y
7	IC 410-513039/18	300.0	279.611335	50.0	1077920.0	0.932038	Y



Calibration

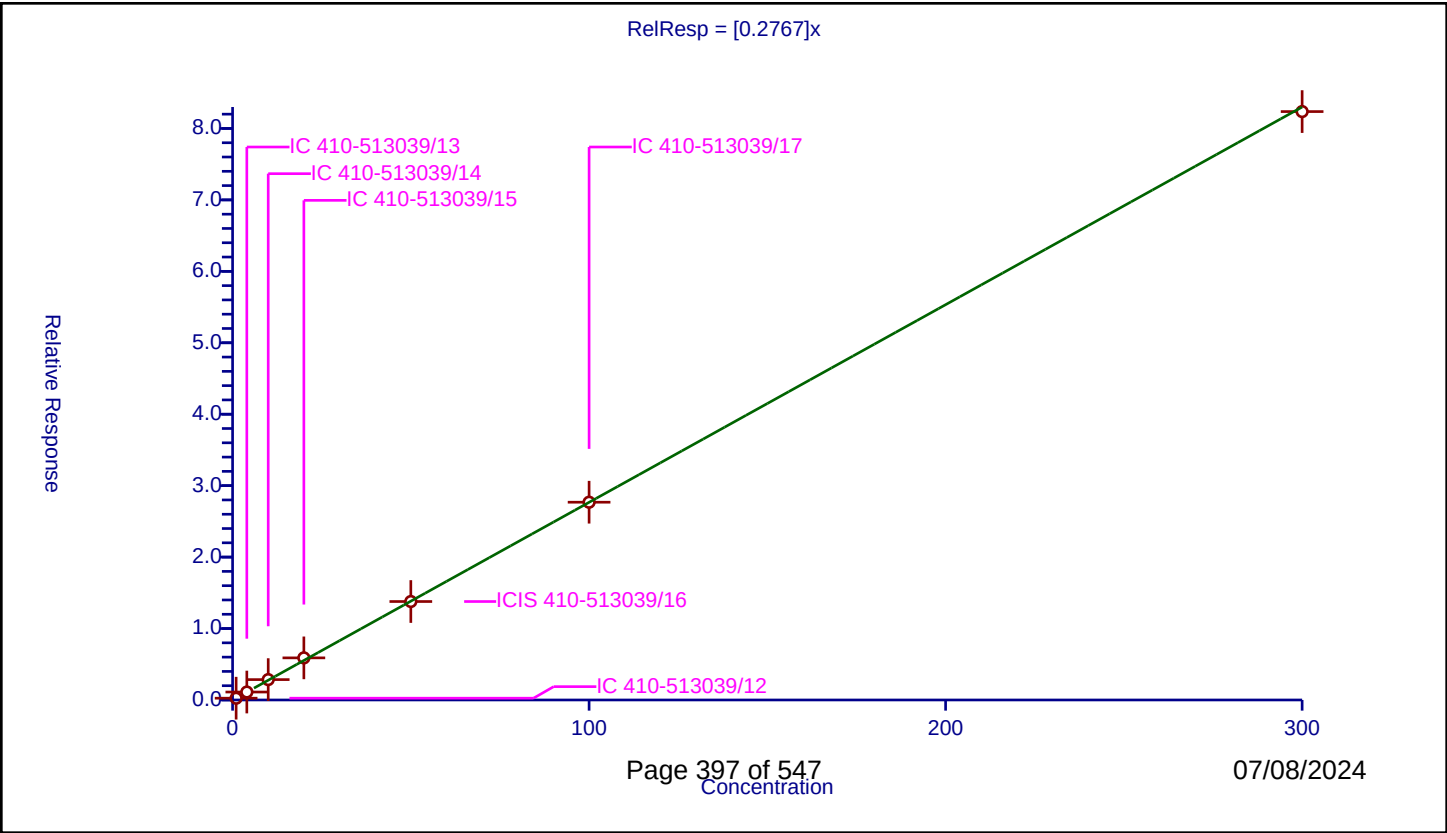
/ trans-1,2-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2767

Error Coefficients	
Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.250788	50.0	950004.0	0.250788	Y
2	IC 410-513039/13	4.0	1.115181	50.0	973474.0	0.278795	Y
3	IC 410-513039/14	10.0	2.851753	50.0	979275.0	0.285175	Y
4	IC 410-513039/15	20.0	5.896799	50.0	967067.0	0.29484	Y
5	ICIS 410-513039/16	50.0	13.78303	50.0	1028435.0	0.275661	Y
6	IC 410-513039/17	100.0	27.681313	50.0	1027780.0	0.276813	Y
7	IC 410-513039/18	300.0	82.359962	50.0	1077920.0	0.274533	Y



Calibration

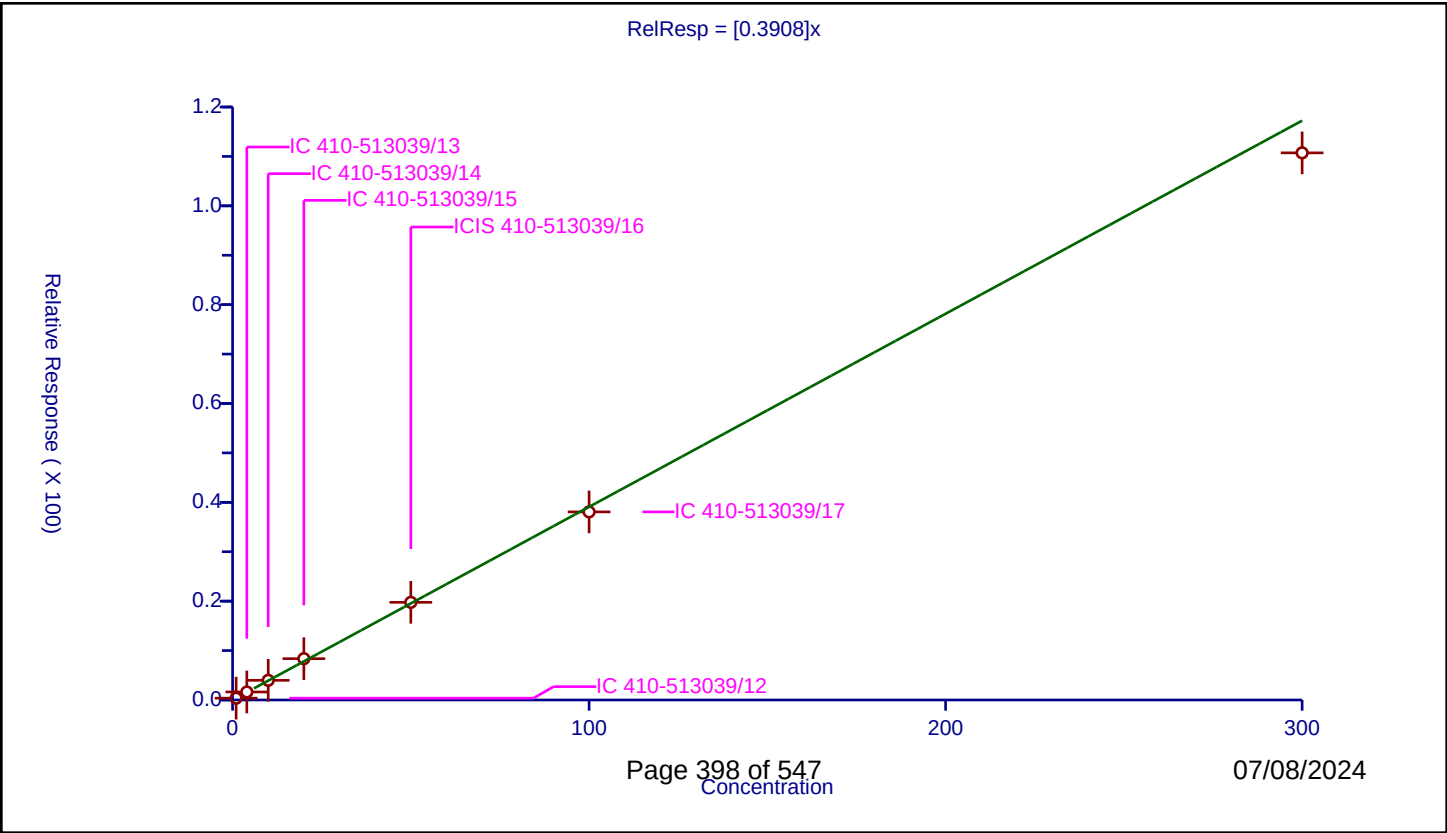
/ Hexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3908
Error Coefficients	

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.368841	50.0	950004.0	0.368841	Y
2	IC 410-513039/13	4.0	1.622231	50.0	973474.0	0.405558	Y
3	IC 410-513039/14	10.0	3.980955	50.0	979275.0	0.398096	Y
4	IC 410-513039/15	20.0	8.361985	50.0	967067.0	0.418099	Y
5	ICIS 410-513039/16	50.0	19.762503	50.0	1028435.0	0.39525	Y
6	IC 410-513039/17	100.0	38.066366	50.0	1027780.0	0.380664	Y
7	IC 410-513039/18	300.0	110.724868	50.0	1077920.0	0.369083	Y



Calibration

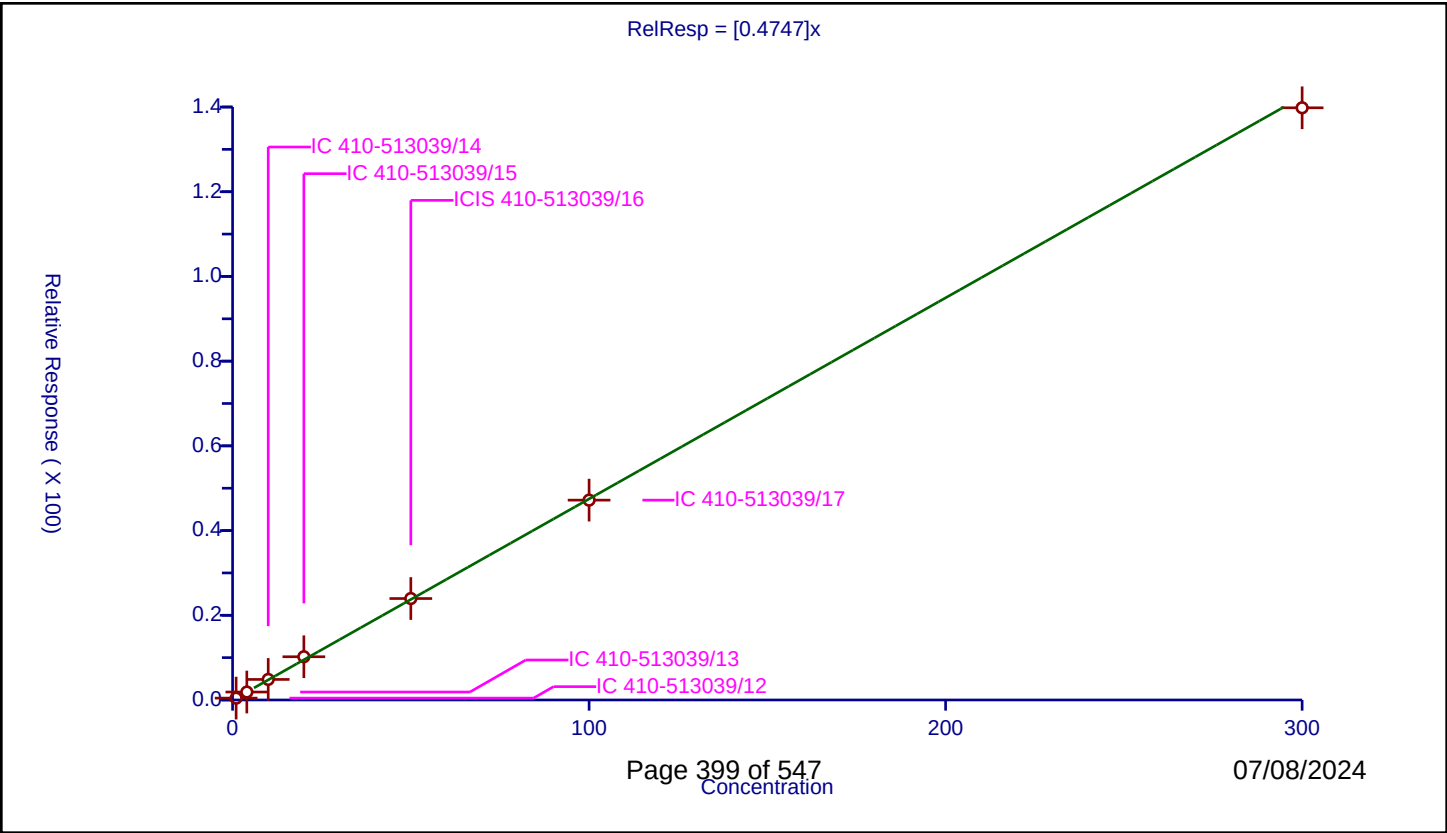
/ 1,1-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4747
Error Coefficients	

Relative Standard Deviation: 4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.441209	50.0	950004.0	0.441209	Y
2	IC 410-513039/13	4.0	1.878427	50.0	973474.0	0.469607	Y
3	IC 410-513039/14	10.0	4.84874	50.0	979275.0	0.484874	Y
4	IC 410-513039/15	20.0	10.209582	50.0	967067.0	0.510479	Y
5	ICIS 410-513039/16	50.0	23.954844	50.0	1028435.0	0.479097	Y
6	IC 410-513039/17	100.0	47.187433	50.0	1027780.0	0.471874	Y
7	IC 410-513039/18	300.0	139.814643	50.0	1077920.0	0.466049	Y



Calibration

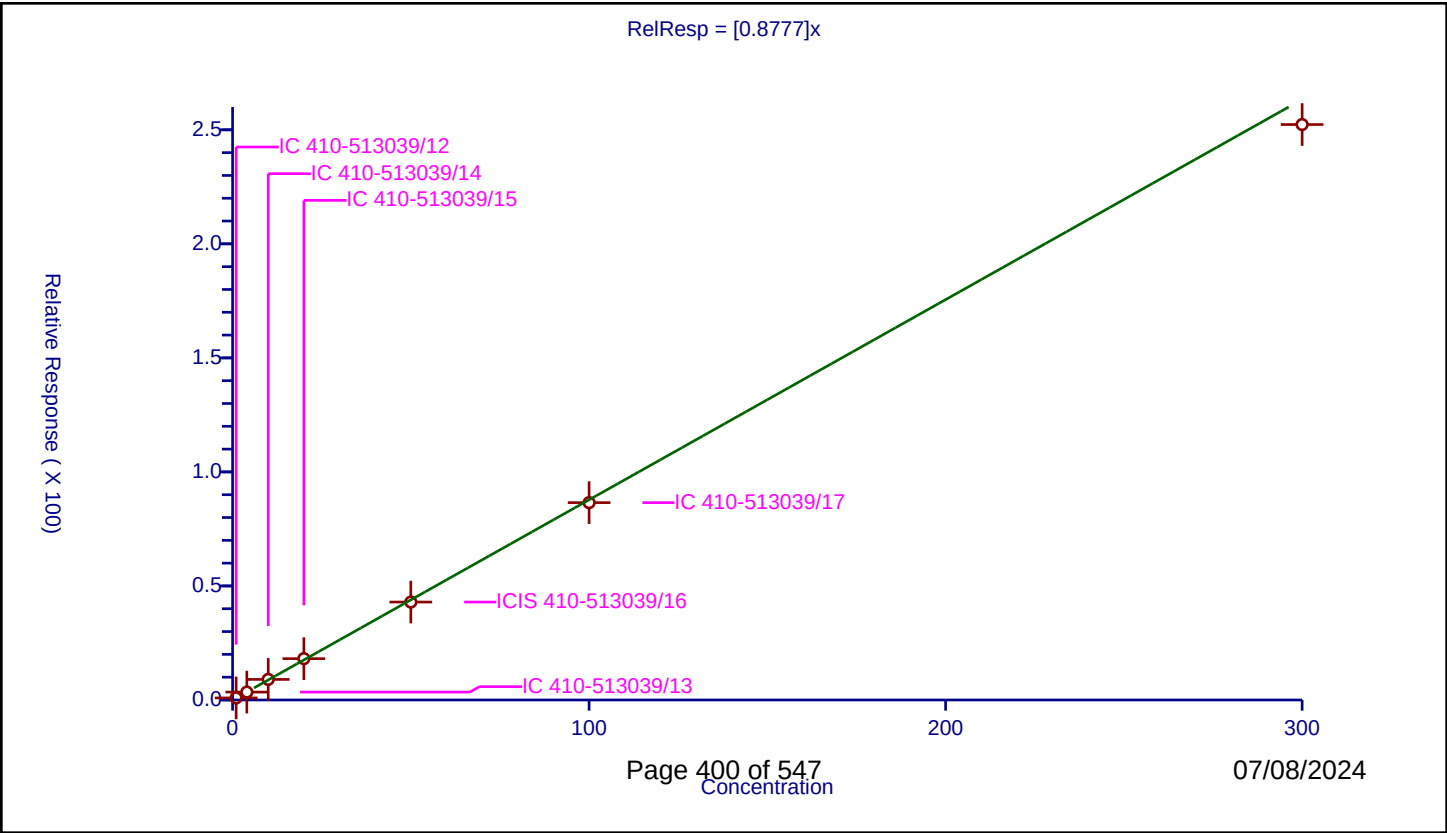
/ Isopropyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8777
Error Coefficients	

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.904154	50.0	950004.0	0.904154	Y
2	IC 410-513039/13	4.0	3.462548	50.0	973474.0	0.865637	Y
3	IC 410-513039/14	10.0	9.023972	50.0	979275.0	0.902397	Y
4	IC 410-513039/15	20.0	18.134628	50.0	967067.0	0.906731	Y
5	ICIS 410-513039/16	50.0	42.939369	50.0	1028435.0	0.858787	Y
6	IC 410-513039/17	100.0	86.534229	50.0	1027780.0	0.865342	Y
7	IC 410-513039/18	300.0	252.319838	50.0	1077920.0	0.841066	Y



Calibration

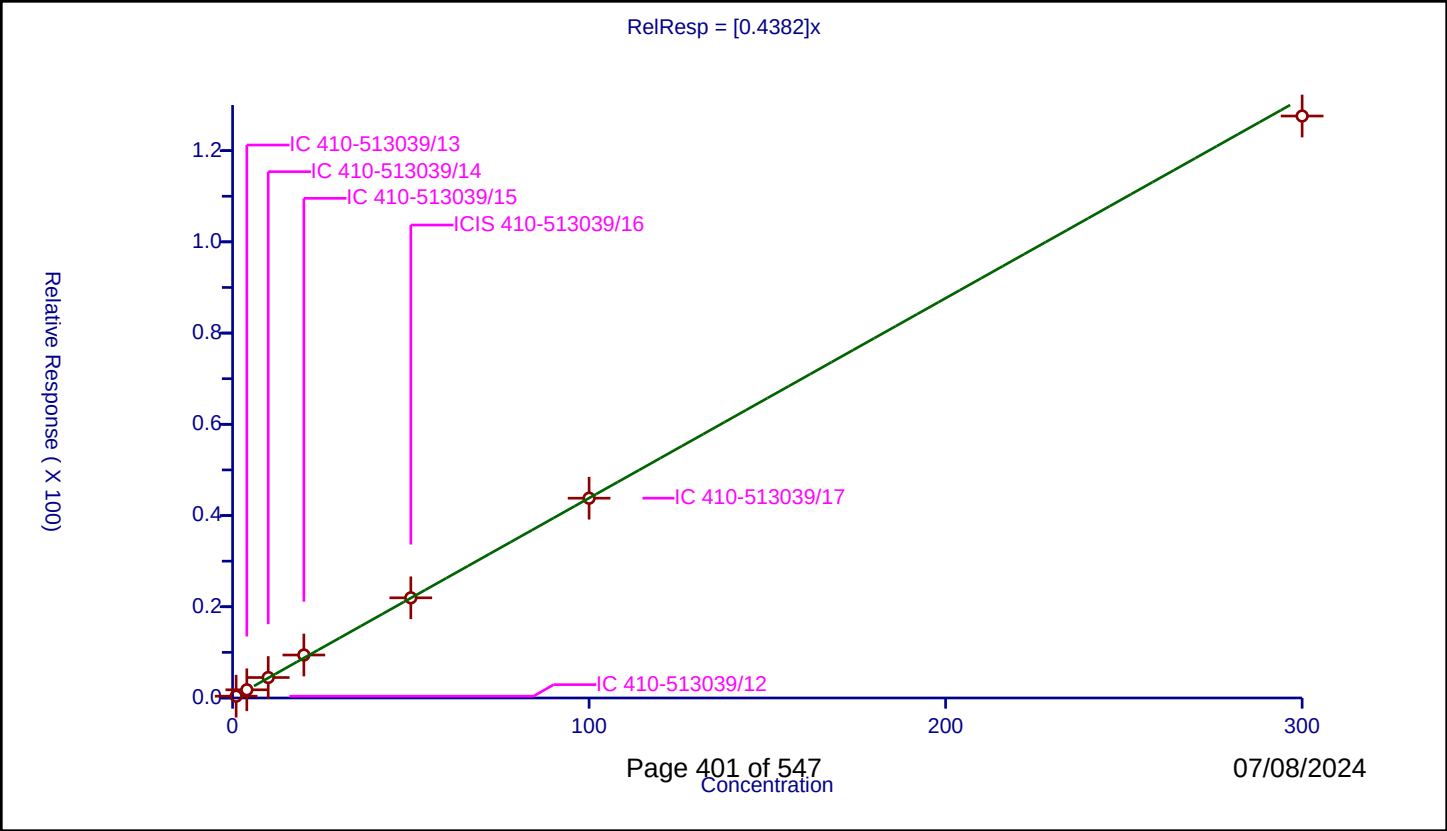
/ 2-Chloro-1,3-butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4382
Error Coefficients	

Relative Standard Deviation: 5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.395314	50.0	950004.0	0.395314	Y
2	IC 410-513039/13	4.0	1.799637	50.0	973474.0	0.449909	Y
3	IC 410-513039/14	10.0	4.488014	50.0	979275.0	0.448801	Y
4	IC 410-513039/15	20.0	9.422977	50.0	967067.0	0.471149	Y
5	ICIS 410-513039/16	50.0	21.960017	50.0	1028435.0	0.4392	Y
6	IC 410-513039/17	100.0	43.802662	50.0	1027780.0	0.438027	Y
7	IC 410-513039/18	300.0	127.587391	50.0	1077920.0	0.425291	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

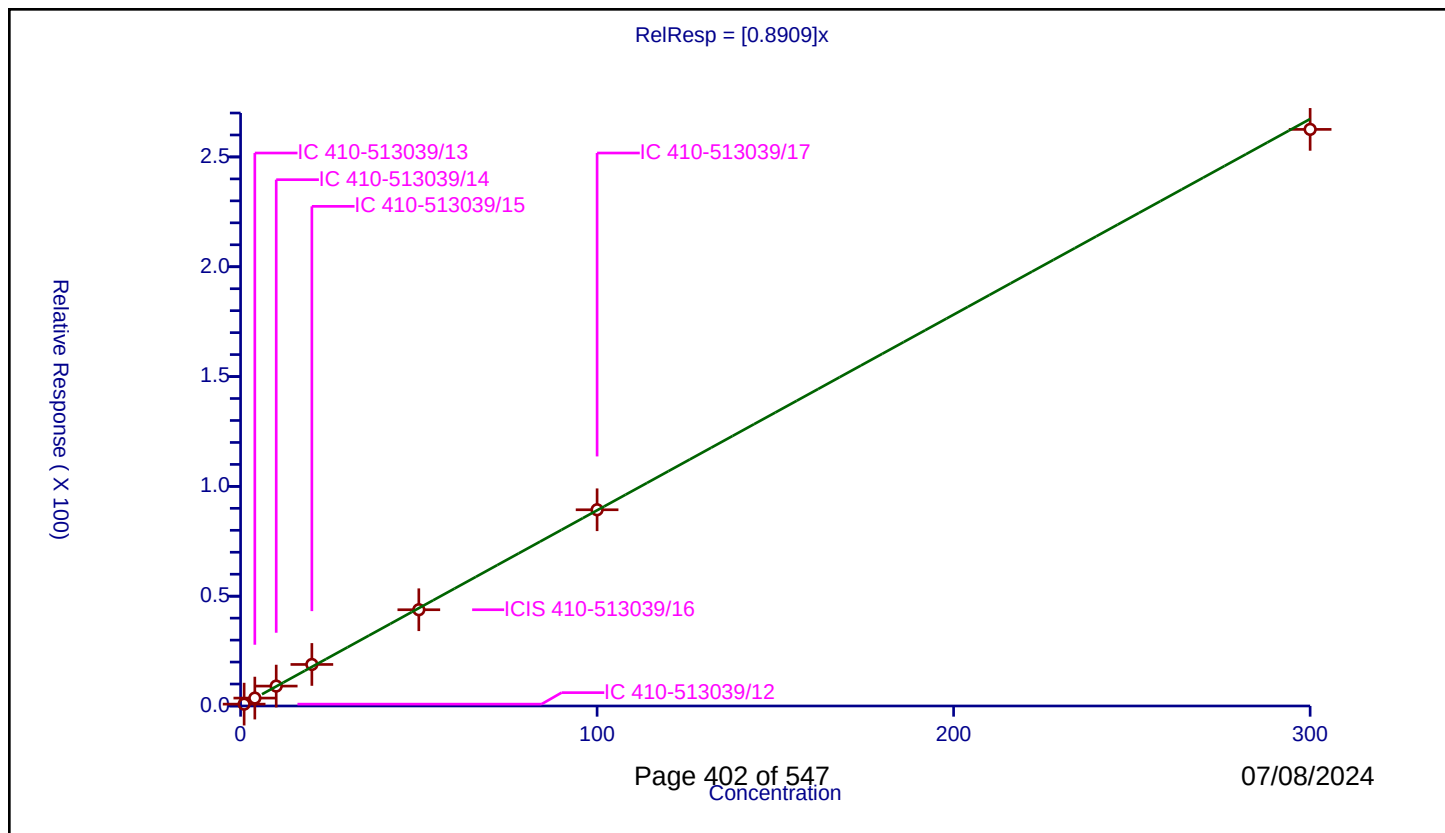
Curve Coefficients

Intercept: 0
Slope: 0.8909

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.84026	50.0	950004.0	0.84026	Y
2	IC 410-513039/13	4.0	3.597425	50.0	973474.0	0.899356	Y
3	IC 410-513039/14	10.0	9.065023	50.0	979275.0	0.906502	Y
4	IC 410-513039/15	20.0	18.908669	50.0	967067.0	0.945433	Y
5	ICIS 410-513039/16	50.0	43.821875	50.0	1028435.0	0.876437	Y
6	IC 410-513039/17	100.0	89.342612	50.0	1027780.0	0.893426	Y
7	IC 410-513039/18	300.0	262.548519	50.0	1077920.0	0.875162	Y



Calibration

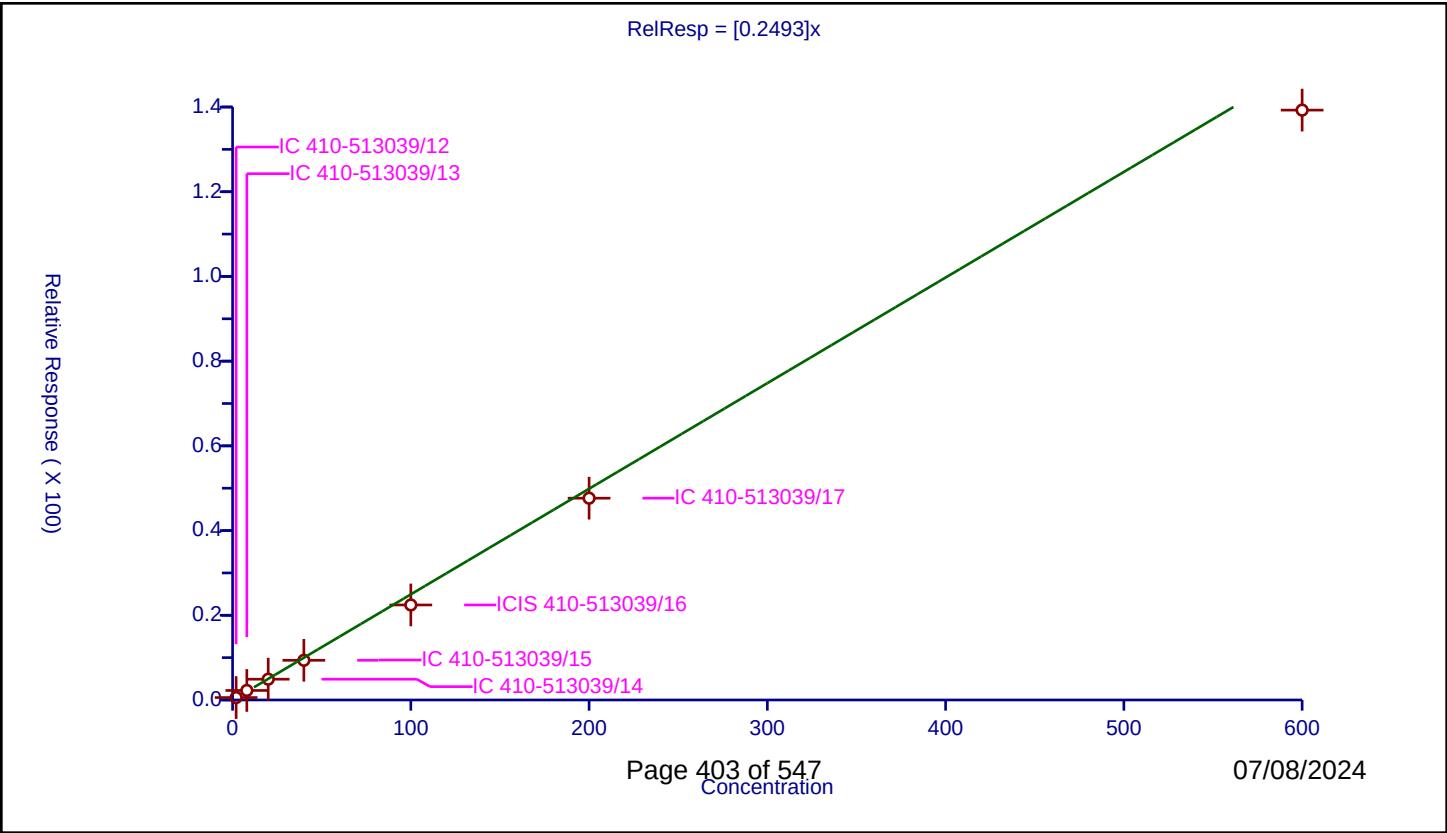
/ 2-Butanone (MEK)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2493

Error Coefficients	
Relative Standard Deviation:	10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	2.0	0.578787	50.0	950004.0	0.289394	Y
2	IC 410-513039/13	8.0	2.253168	50.0	973474.0	0.281646	Y
3	IC 410-513039/14	20.0	4.907508	50.0	979275.0	0.245375	Y
4	IC 410-513039/15	40.0	9.373601	50.0	967067.0	0.23434	Y
5	ICIS 410-513039/16	100.0	22.433406	50.0	1028435.0	0.224334	Y
6	IC 410-513039/17	200.0	47.645848	50.0	1027780.0	0.238229	Y
7	IC 410-513039/18	600.0	139.26771	50.0	1077920.0	0.232113	Y



Calibration

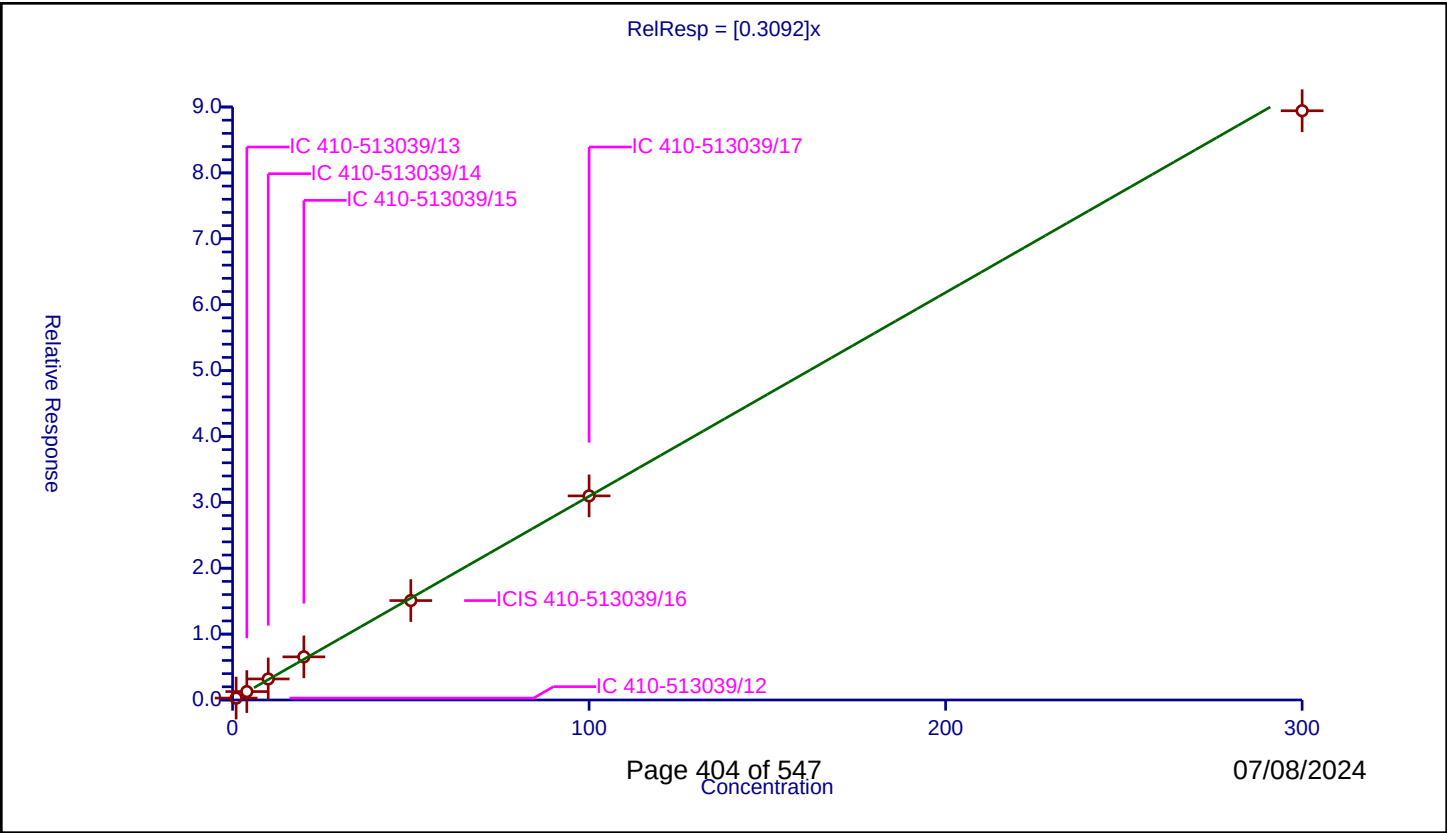
/ cis-1,2-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3092
Error Coefficients	

Relative Standard Deviation: 4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.288788	50.0	950004.0	0.288788	Y
2	IC 410-513039/13	4.0	1.277281	50.0	973474.0	0.31932	Y
3	IC 410-513039/14	10.0	3.192821	50.0	979275.0	0.319282	Y
4	IC 410-513039/15	20.0	6.546082	50.0	967067.0	0.327304	Y
5	ICIS 410-513039/16	50.0	15.090696	50.0	1028435.0	0.301814	Y
6	IC 410-513039/17	100.0	30.977544	50.0	1027780.0	0.309775	Y
7	IC 410-513039/18	300.0	89.434606	50.0	1077920.0	0.298115	Y

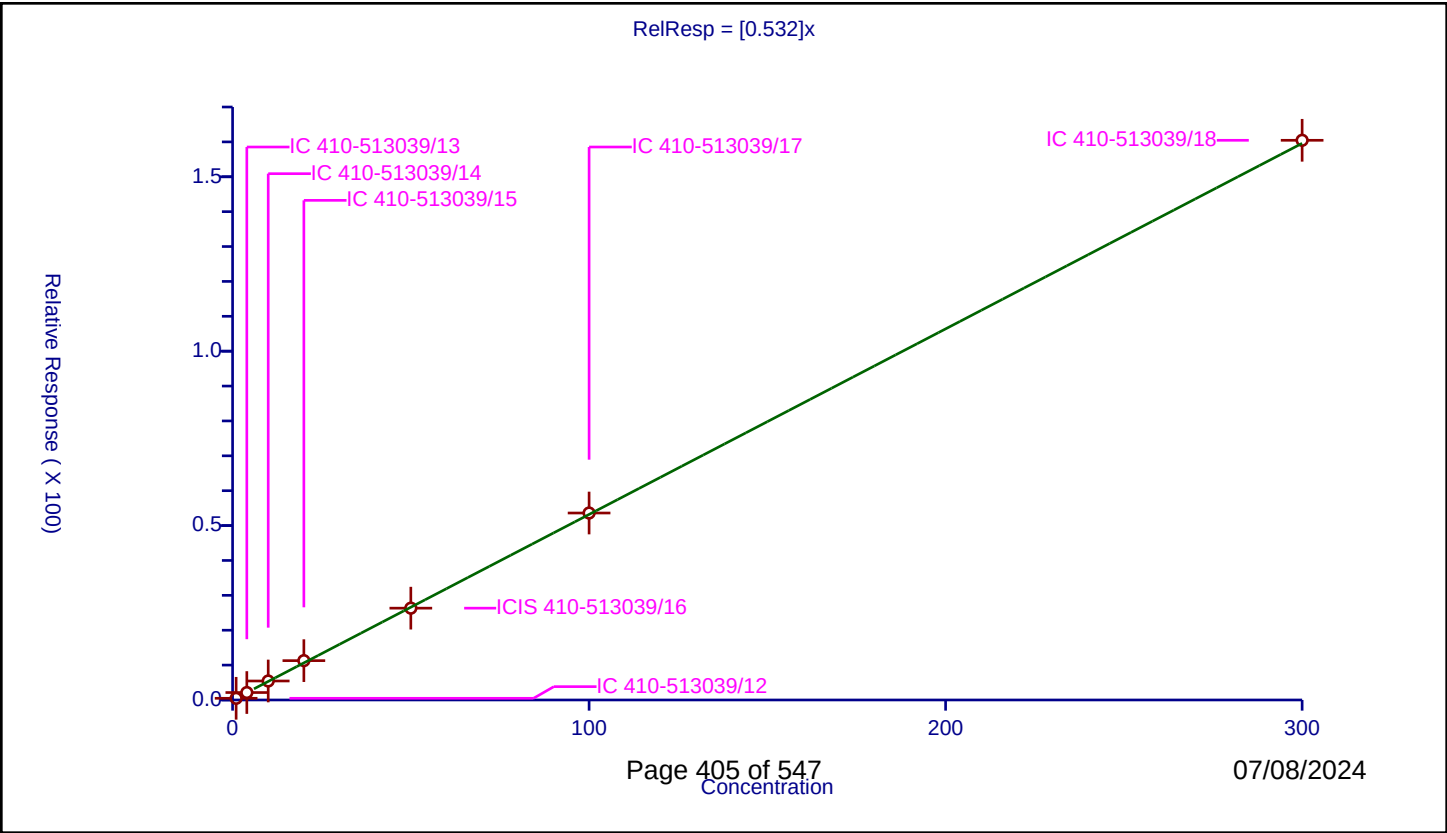


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.532

Error Coefficients	
Relative Standard Deviation:	
	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.484524	50.0	950004.0	0.484524	Y
2	IC 410-513039/13	4.0	2.132979	50.0	973474.0	0.533245	Y
3	IC 410-513039/14	10.0	5.444844	50.0	979275.0	0.544484	Y
4	IC 410-513039/15	20.0	11.280191	50.0	967067.0	0.56401	Y
5	ICIS 410-513039/16	50.0	26.326409	50.0	1028435.0	0.526528	Y
6	IC 410-513039/17	100.0	53.605733	50.0	1027780.0	0.536057	Y
7	IC 410-513039/18	300.0	160.458104	50.0	1077920.0	0.53486	Y



Calibration

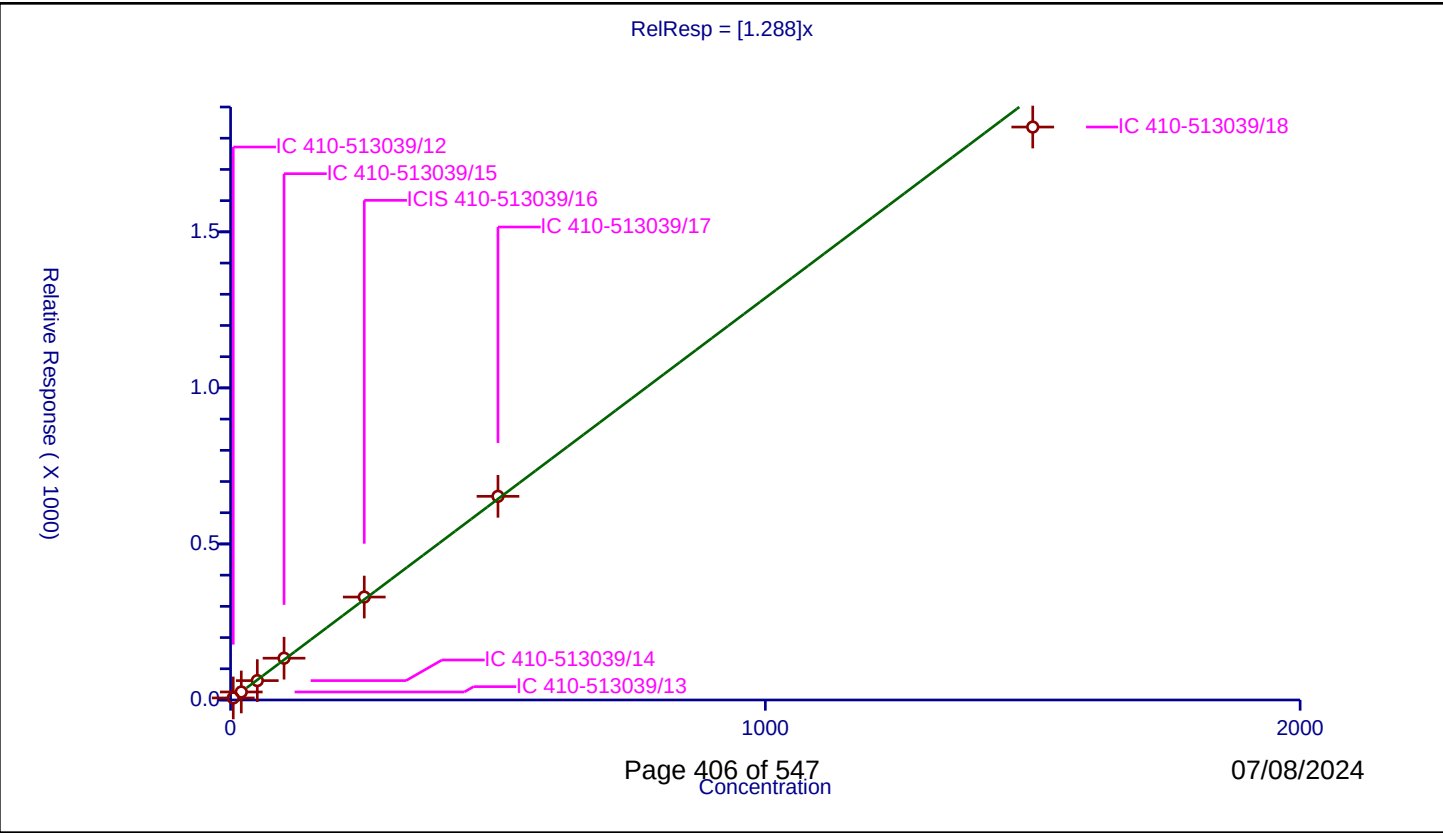
/ Propionitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.288
Error Coefficients	

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	5.0	6.513471	250.0	325748.0	1.302694	Y
2	IC 410-513039/13	20.0	25.699954	250.0	276411.0	1.284998	Y
3	IC 410-513039/14	50.0	62.095934	250.0	356996.0	1.241919	Y
4	IC 410-513039/15	100.0	133.94101	250.0	275640.0	1.33941	Y
5	ICIS 410-513039/16	250.0	329.876832	250.0	293746.0	1.319507	Y
6	IC 410-513039/17	500.0	652.601522	250.0	305821.0	1.305203	Y
7	IC 410-513039/18	1500.0	1835.837082	250.0	324813.0	1.223891	Y



Calibration

/ Methyl acrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

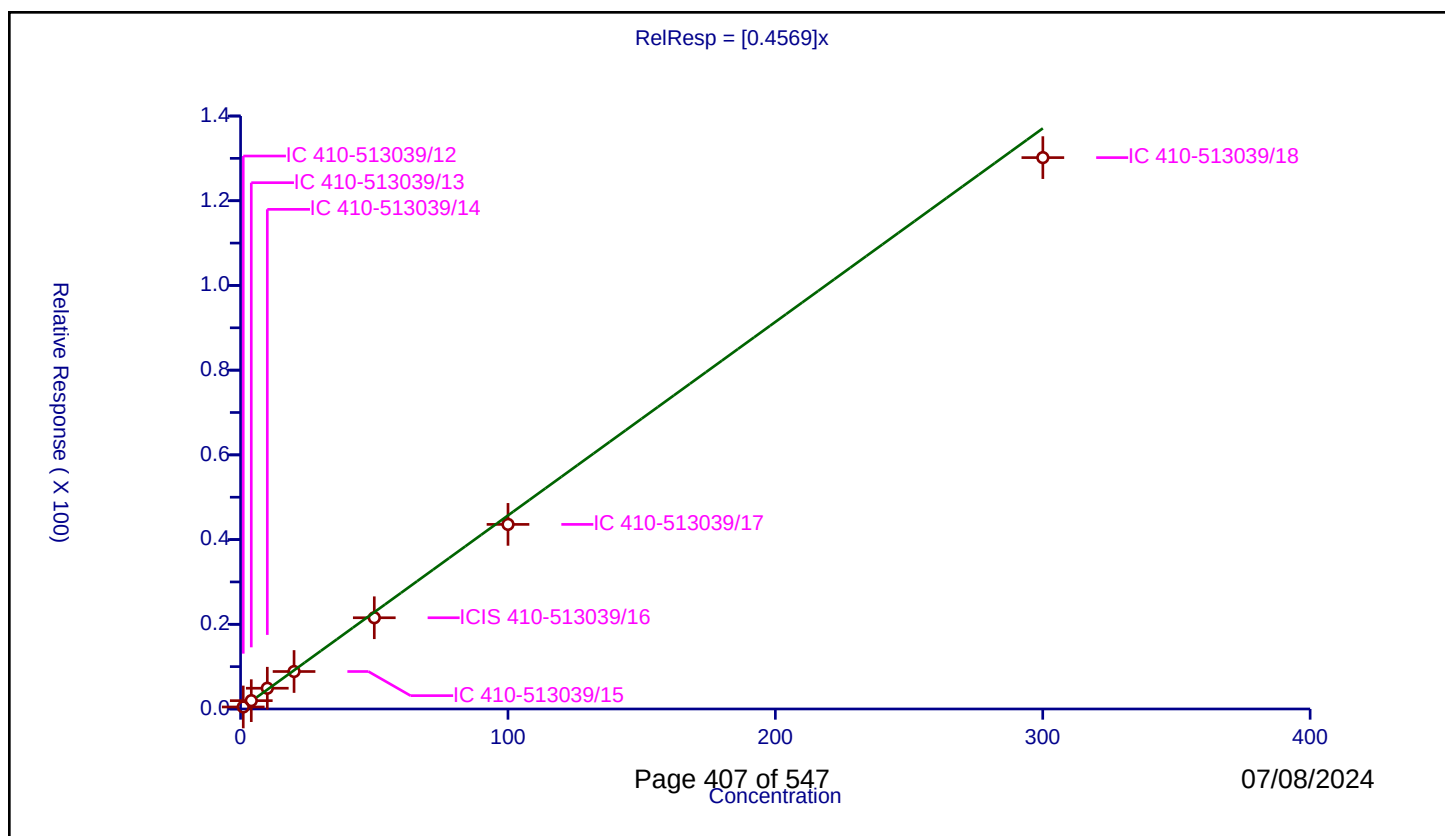
Curve Coefficients

Intercept: 0
Slope: 0.4569

Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.00014	0.474524	50.0	950004.0	0.474458	Y
2	IC 410-513039/13	4.00056	1.965076	50.0	973474.0	0.4912	Y
3	IC 410-513039/14	10.0014	4.90036	50.0	979275.0	0.489967	Y
4	IC 410-513039/15	20.0028	8.847784	50.0	967067.0	0.442327	Y
5	ICIS 410-513039/16	50.007	21.5421	50.0	1028435.0	0.430782	Y
6	IC 410-513039/17	100.014	43.582625	50.0	1027780.0	0.435765	Y
7	IC 410-513039/18	300.042	130.177147	50.0	1077920.0	0.433863	Y



Calibration

/ Methacrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

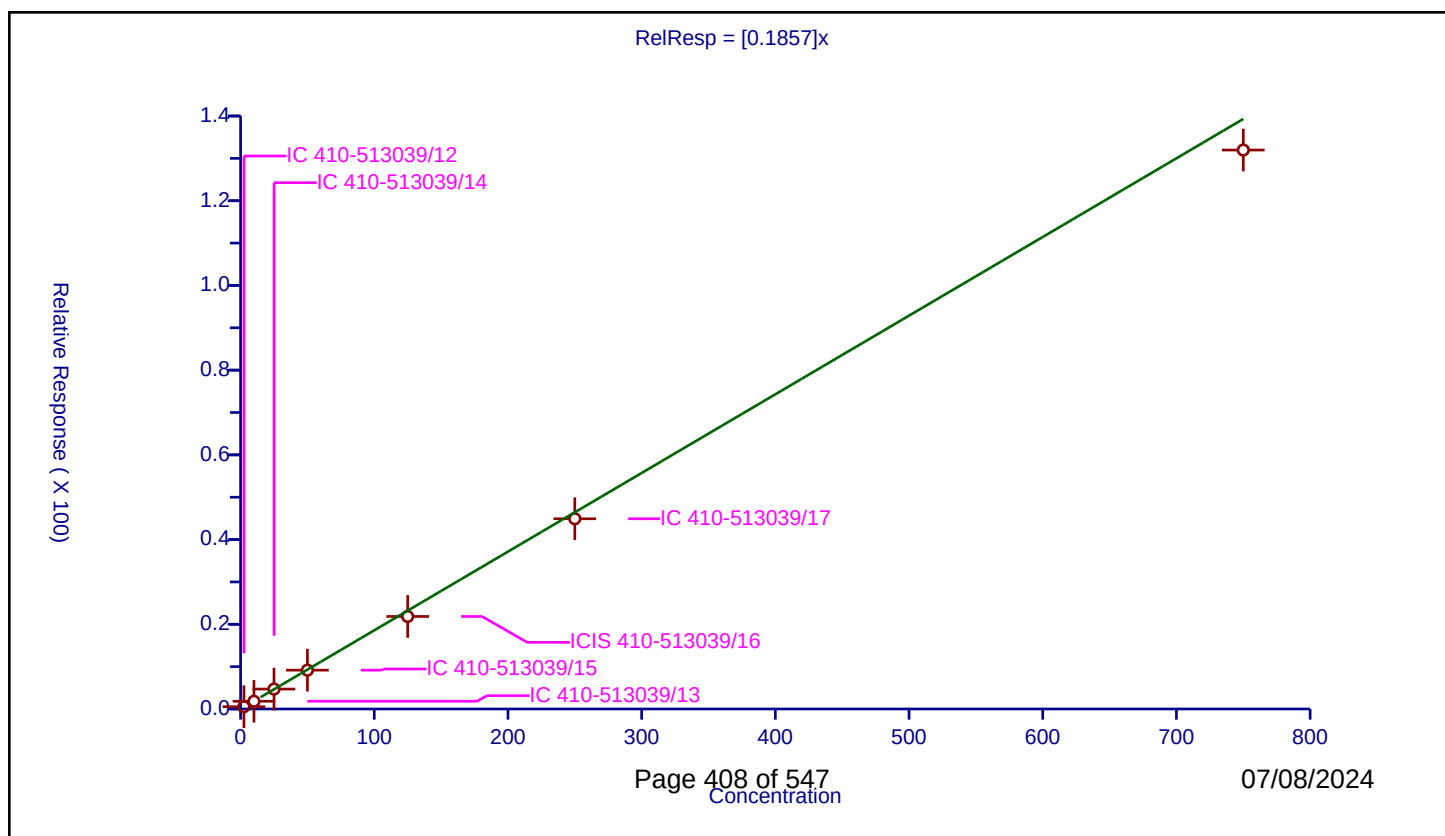
Curve Coefficients

Intercept: 0
Slope: 0.1857

Error Coefficients

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	2.5	0.54084	50.0	950004.0	0.216336	Y
2	IC 410-513039/13	10.0	1.819977	50.0	973474.0	0.181998	Y
3	IC 410-513039/14	25.0	4.703786	50.0	979275.0	0.188151	Y
4	IC 410-513039/15	50.0	9.165291	50.0	967067.0	0.183306	Y
5	ICIS 410-513039/16	125.0	21.841439	50.0	1028435.0	0.174732	Y
6	IC 410-513039/17	250.0	44.911606	50.0	1027780.0	0.179646	Y
7	IC 410-513039/18	750.0	131.969163	50.0	1077920.0	0.175959	Y



Calibration

/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

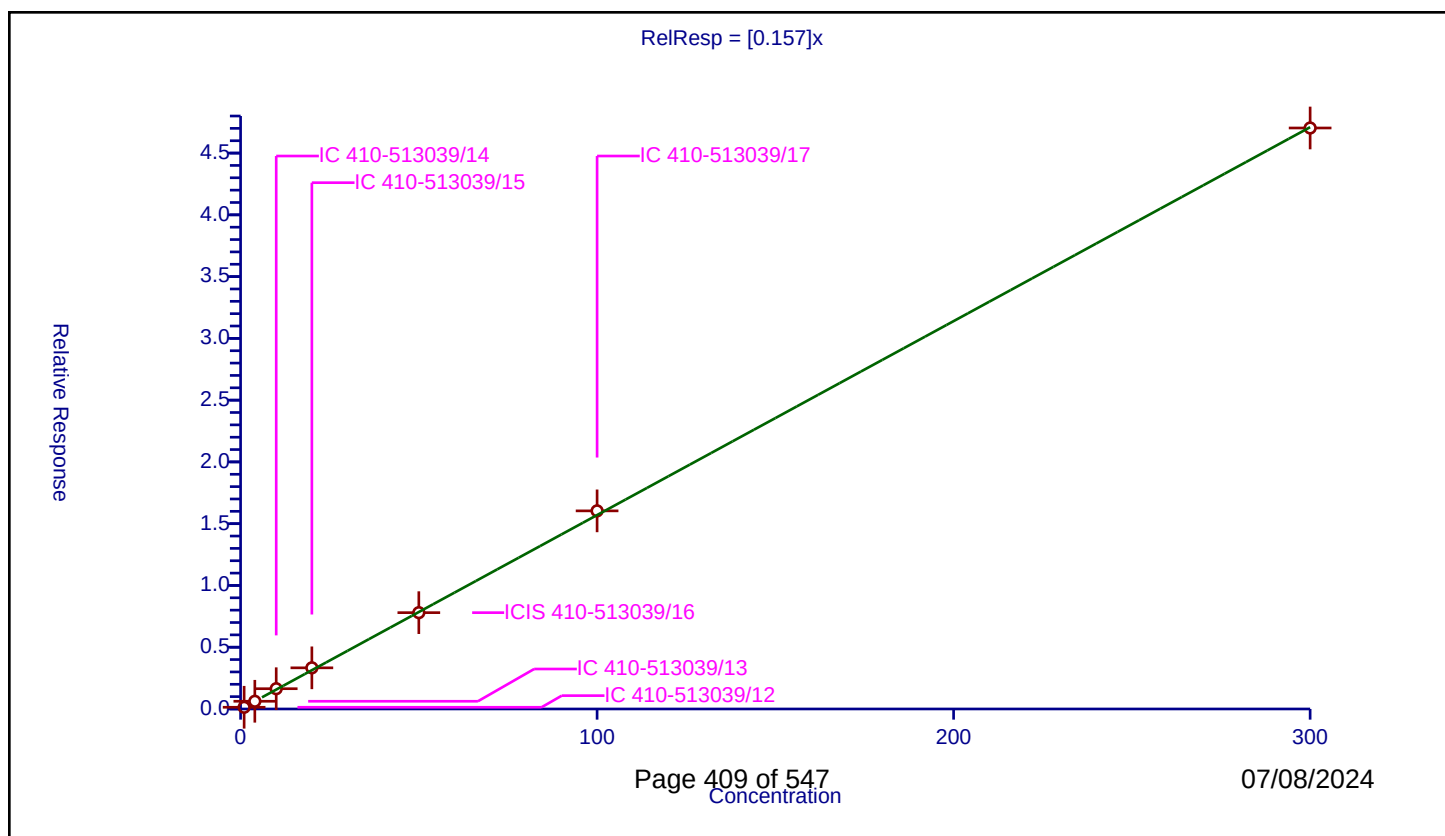
Curve Coefficients

Intercept: 0
Slope: 0.157

Error Coefficients

Relative Standard Deviation: 5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.138894	50.0	950004.0	0.138894	Y
2	IC 410-513039/13	4.0	0.624773	50.0	973474.0	0.156193	Y
3	IC 410-513039/14	10.0	1.640908	50.0	979275.0	0.164091	Y
4	IC 410-513039/15	20.0	3.331982	50.0	967067.0	0.166599	Y
5	ICIS 410-513039/16	50.0	7.798937	50.0	1028435.0	0.155979	Y
6	IC 410-513039/17	100.0	16.037625	50.0	1027780.0	0.160376	Y
7	IC 410-513039/18	300.0	47.030114	50.0	1077920.0	0.156767	Y



Calibration

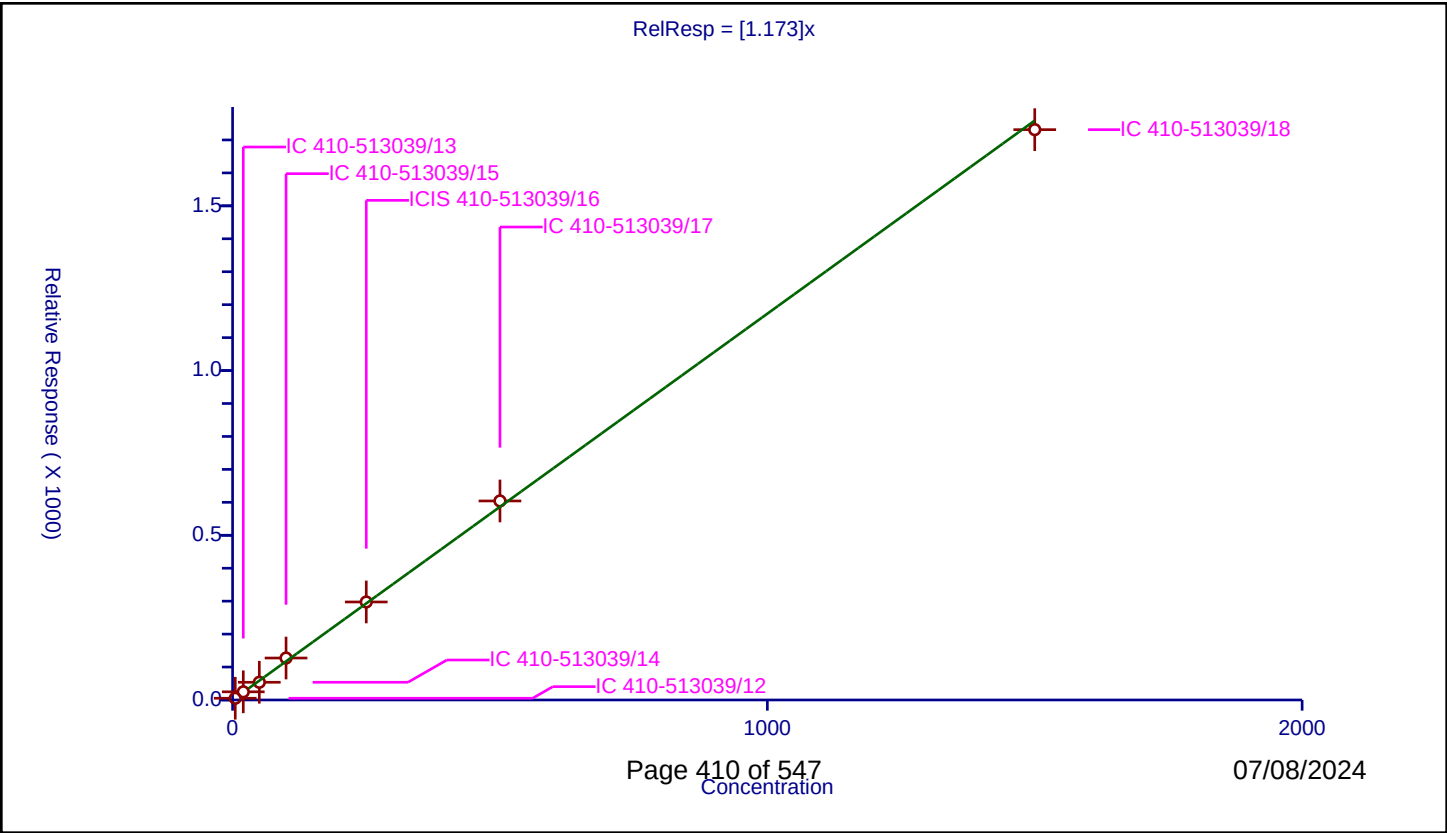
/ Tetrahydrofuran

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.173
Error Coefficients	

Relative Standard Deviation: 6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	5.0	5.327738	250.0	325748.0	1.065548	Y
2	IC 410-513039/13	20.0	24.809975	250.0	276411.0	1.240499	Y
3	IC 410-513039/14	50.0	53.778614	250.0	356996.0	1.075572	Y
4	IC 410-513039/15	100.0	127.36359	250.0	275640.0	1.273636	Y
5	ICIS 410-513039/16	250.0	297.551286	250.0	293746.0	1.190205	Y
6	IC 410-513039/17	500.0	604.18431	250.0	305821.0	1.208369	Y
7	IC 410-513039/18	1500.0	1731.269223	250.0	324813.0	1.154179	Y



Calibration

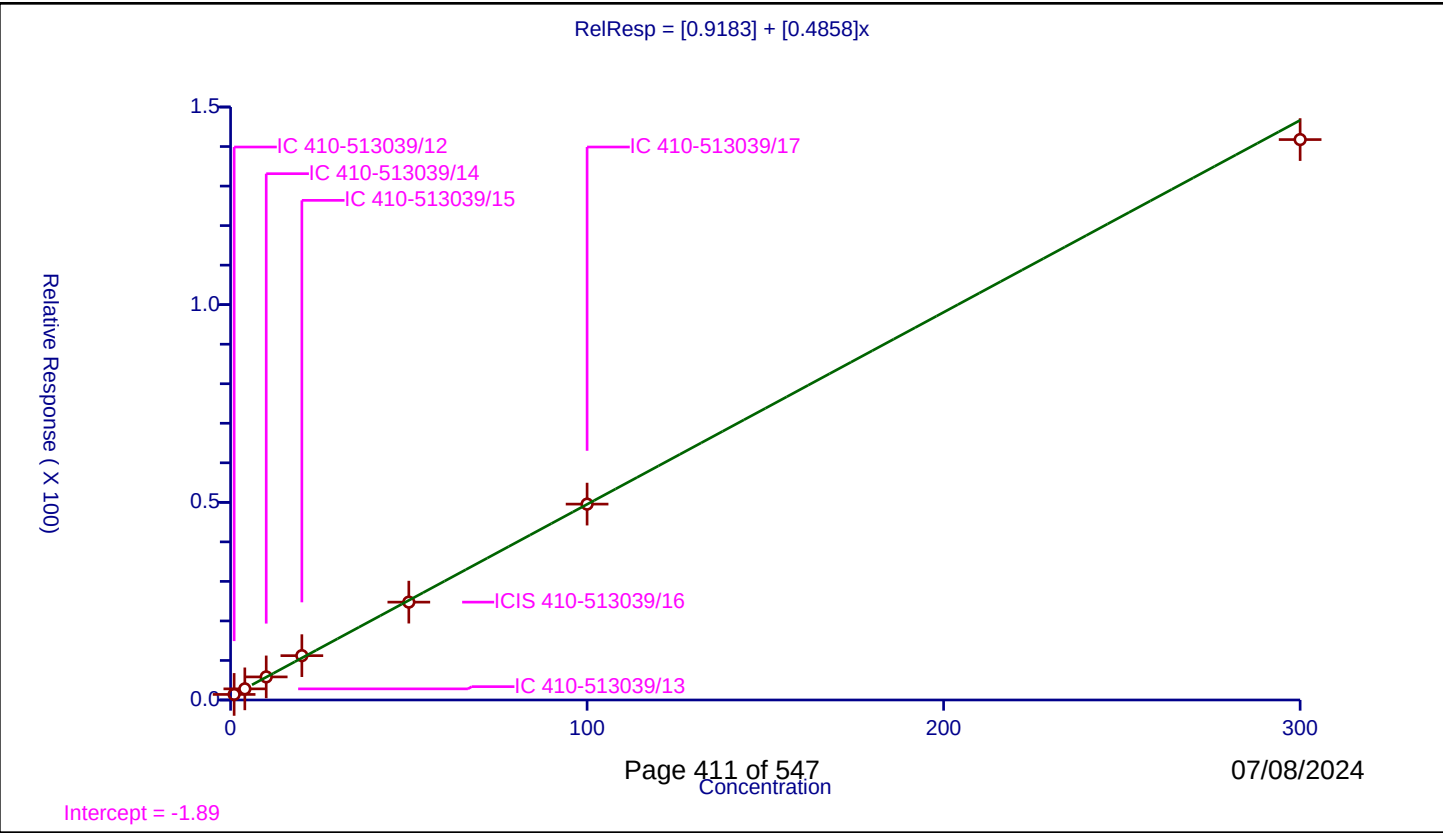
/ Chloroform

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0.9183
Slope:	0.4858
Error Coefficients	

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.405152	50.0	950004.0	1.405152	Y
2	IC 410-513039/13	4.0	2.813891	50.0	973474.0	0.703473	Y
3	IC 410-513039/14	10.0	5.839882	50.0	979275.0	0.583988	Y
4	IC 410-513039/15	20.0	11.216079	50.0	967067.0	0.560804	Y
5	ICIS 410-513039/16	50.0	24.756499	50.0	1028435.0	0.49513	Y
6	IC 410-513039/17	100.0	49.549077	50.0	1027780.0	0.495491	Y
7	IC 410-513039/18	300.0	141.763164	50.0	1077920.0	0.472544	Y



Calibration

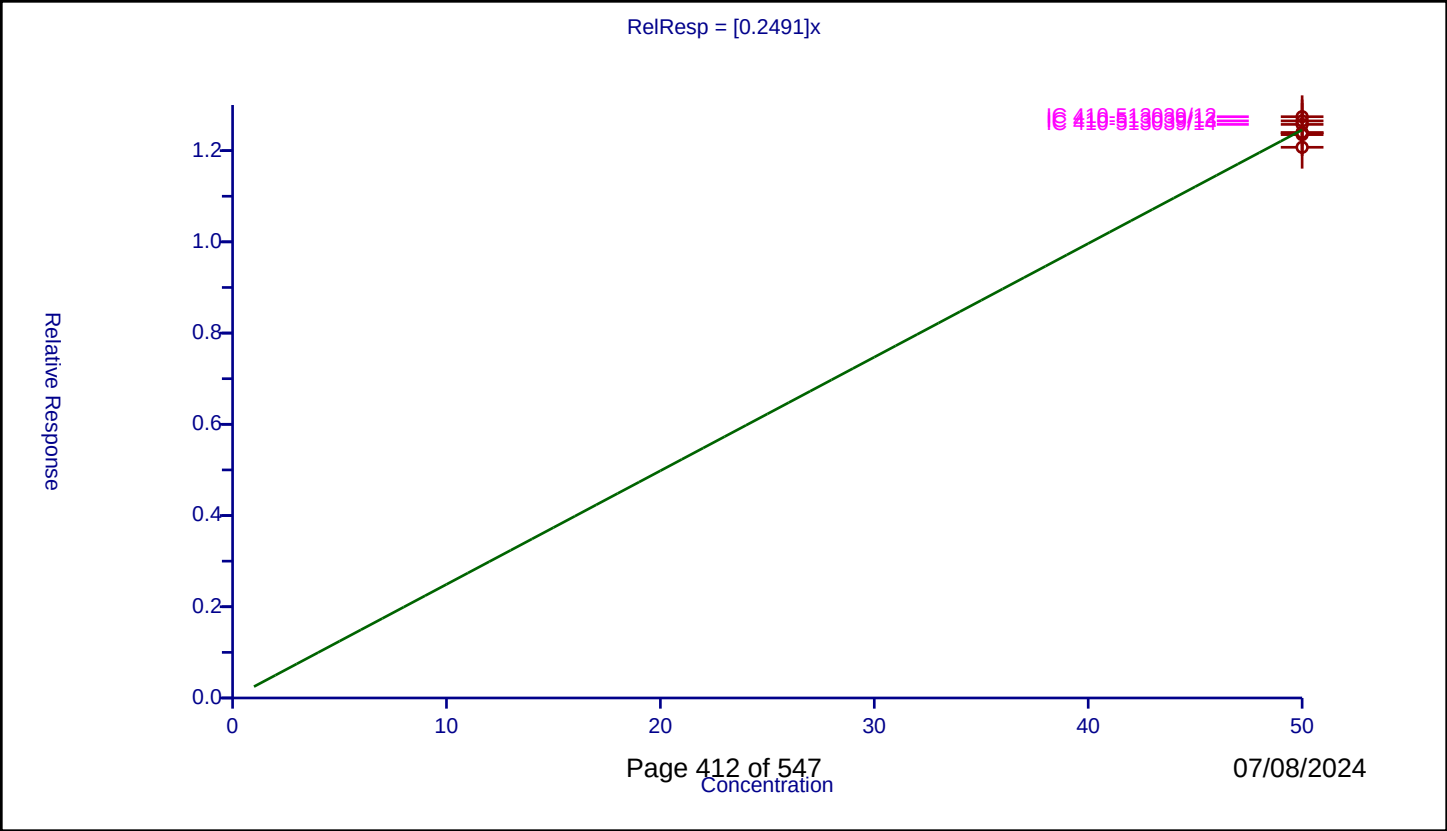
/ Dibromofluoromethane (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2491
Error Coefficients	

Relative Standard Deviation: 1.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	50.0	12.743894	50.0	950004.0	0.254878	Y
2	IC 410-513039/13	50.0	12.651339	50.0	973474.0	0.253027	Y
3	IC 410-513039/14	50.0	12.574915	50.0	979275.0	0.251498	Y
4	IC 410-513039/15	50.0	12.394643	50.0	967067.0	0.247893	Y
5	ICIS 410-513039/16	50.0	12.39106	50.0	1028435.0	0.247821	Y
6	IC 410-513039/17	50.0	12.3506	50.0	1027780.0	0.247012	Y
7	IC 410-513039/18	50.0	12.073159	50.0	1077920.0	0.241463	Y



Calibration

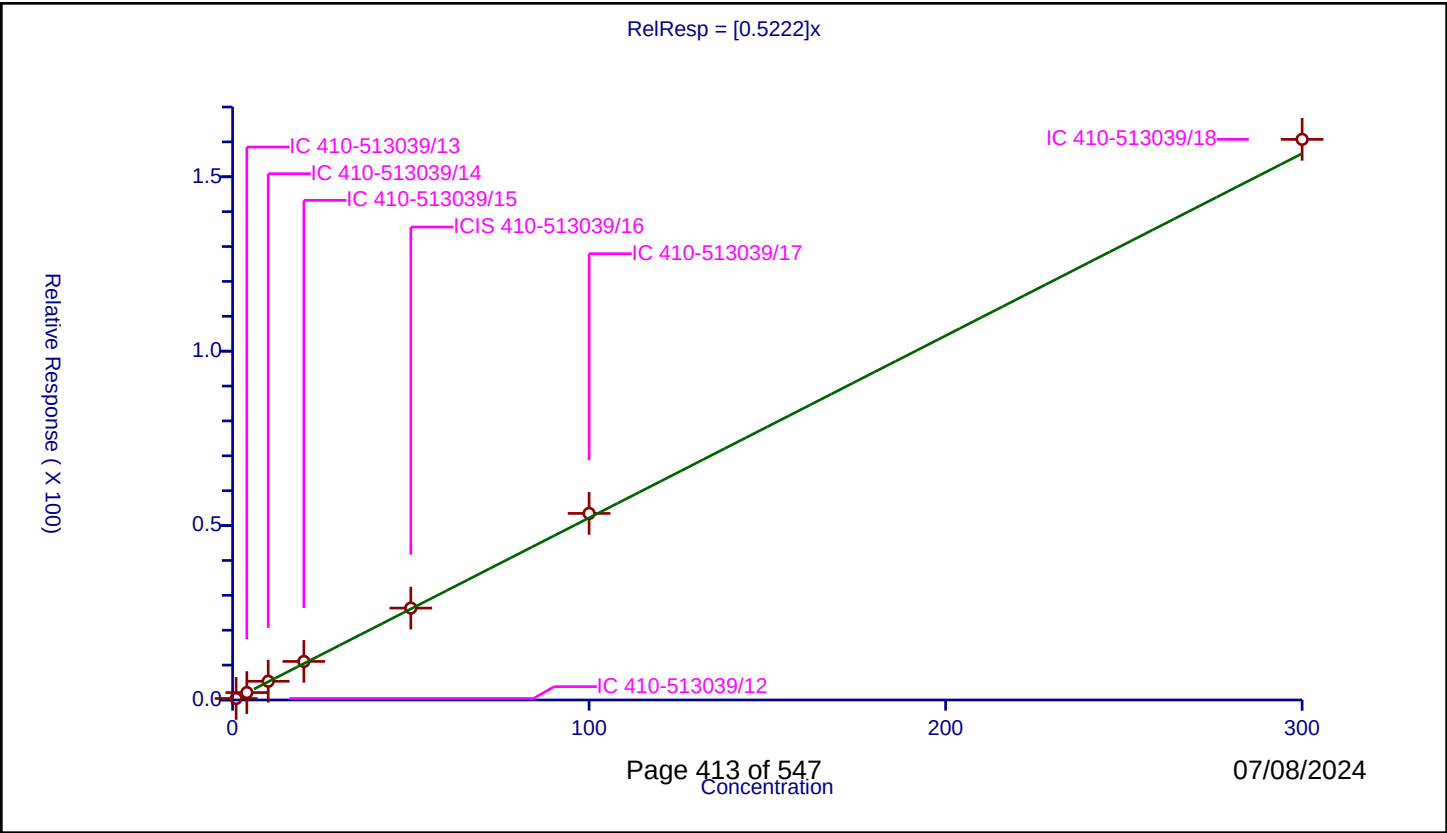
/ 1,1,1-Trichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5222

Error Coefficients	
Relative Standard Deviation:	
	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.43484	50.0	950004.0	0.43484	Y
2	IC 410-513039/13	4.0	2.132774	50.0	973474.0	0.533193	Y
3	IC 410-513039/14	10.0	5.368512	50.0	979275.0	0.536851	Y
4	IC 410-513039/15	20.0	11.058696	50.0	967067.0	0.552935	Y
5	ICIS 410-513039/16	50.0	26.34639	50.0	1028435.0	0.526928	Y
6	IC 410-513039/17	100.0	53.492138	50.0	1027780.0	0.534921	Y
7	IC 410-513039/18	300.0	160.722874	50.0	1077920.0	0.535743	Y



Calibration

/ Cyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

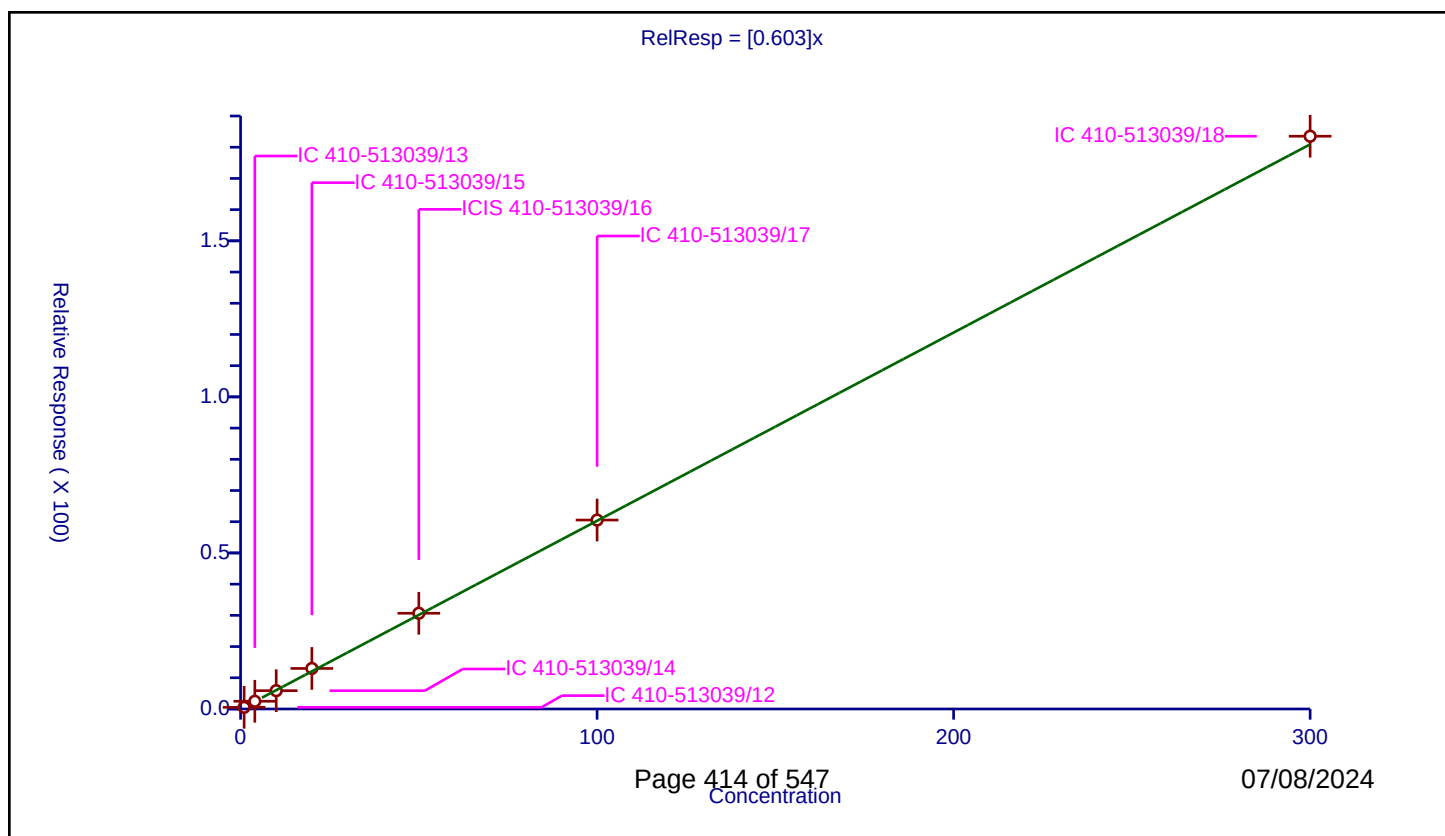
Curve Coefficients

Intercept: 0
Slope: 0.603

Error Coefficients

Relative Standard Deviation: 5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.536103	50.0	950004.0	0.536103	Y
2	IC 410-513039/13	4.0	2.472793	50.0	973474.0	0.618198	Y
3	IC 410-513039/14	10.0	5.867657	50.0	979275.0	0.586766	Y
4	IC 410-513039/15	20.0	12.993515	50.0	967067.0	0.649676	Y
5	ICIS 410-513039/16	50.0	30.67311	50.0	1028435.0	0.613462	Y
6	IC 410-513039/17	100.0	60.540291	50.0	1027780.0	0.605403	Y
7	IC 410-513039/18	300.0	183.521226	50.0	1077920.0	0.611737	Y



Calibration

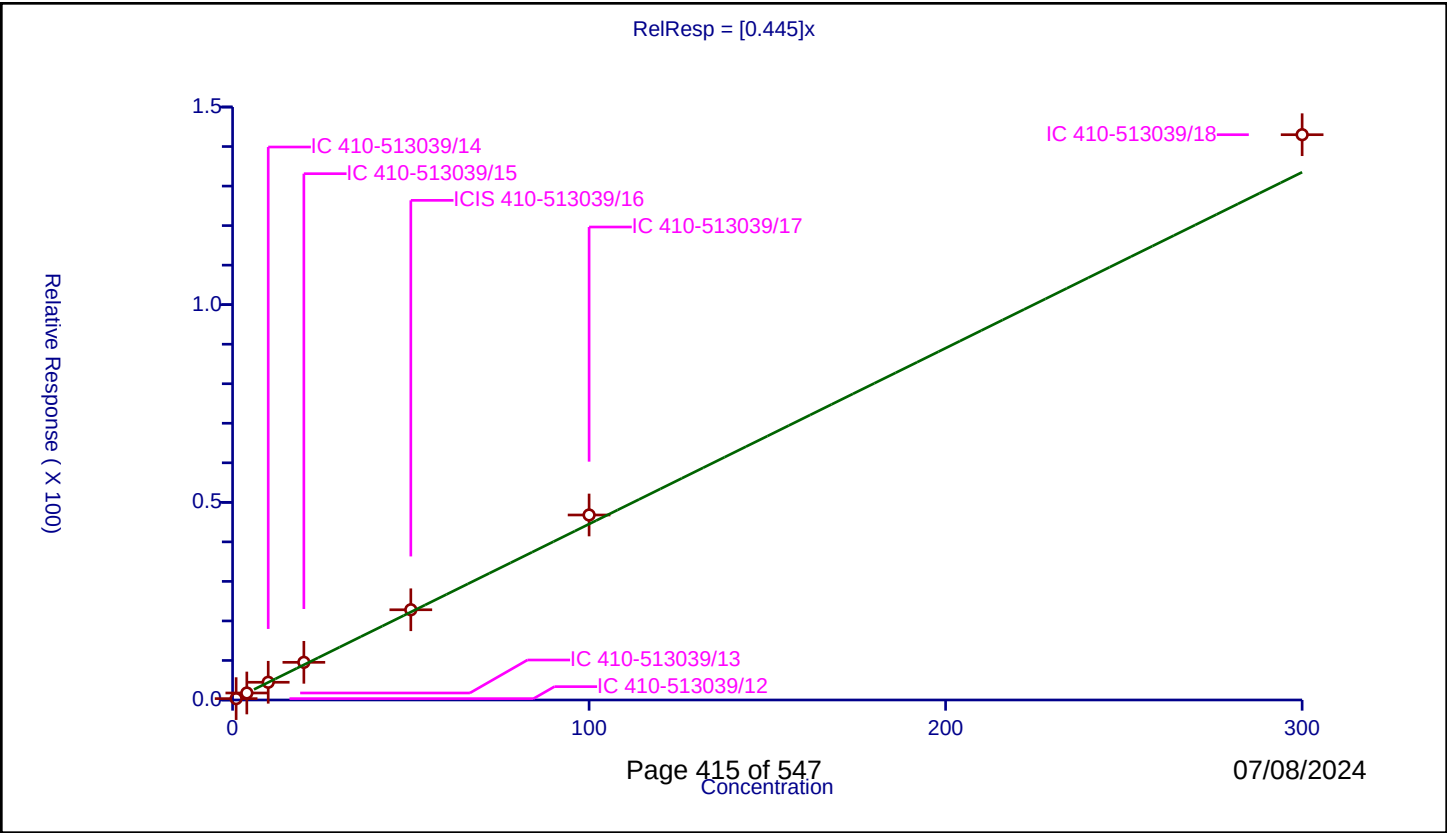
/ Carbon tetrachloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.445
Error Coefficients	

Relative Standard Deviation: 10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.345893	50.0	950004.0	0.345893	Y
2	IC 410-513039/13	4.0	1.773237	50.0	973474.0	0.443309	Y
3	IC 410-513039/14	10.0	4.485768	50.0	979275.0	0.448577	Y
4	IC 410-513039/15	20.0	9.527158	50.0	967067.0	0.476358	Y
5	ICIS 410-513039/16	50.0	22.821617	50.0	1028435.0	0.456432	Y
6	IC 410-513039/17	100.0	46.797418	50.0	1027780.0	0.467974	Y
7	IC 410-513039/18	300.0	142.995027	50.0	1077920.0	0.47665	Y



Calibration

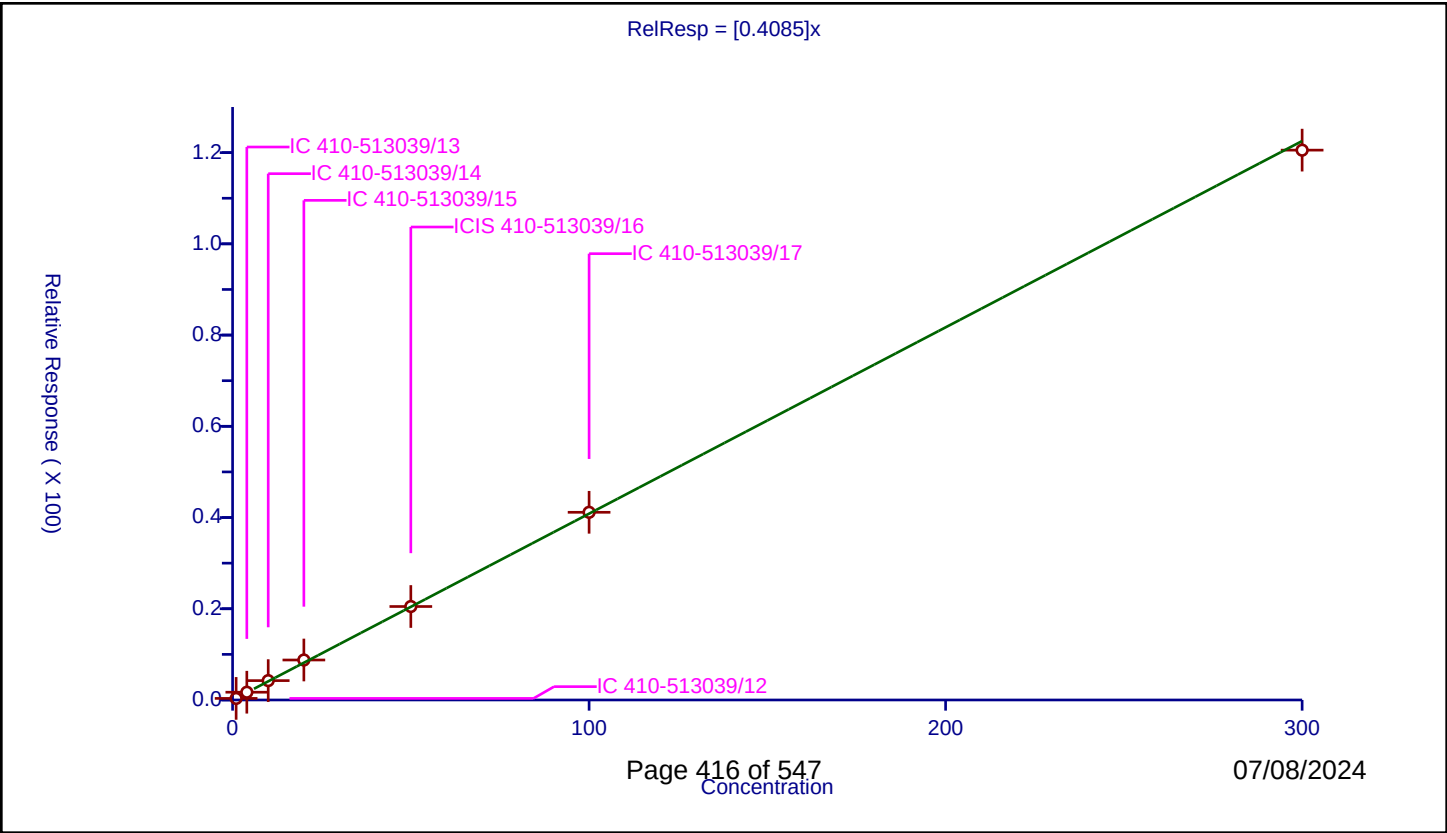
/ 1,1-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4085
Error Coefficients	

Relative Standard Deviation: 7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.34742	50.0	950004.0	0.34742	Y
2	IC 410-513039/13	4.0	1.702973	50.0	973474.0	0.425743	Y
3	IC 410-513039/14	10.0	4.245998	50.0	979275.0	0.4246	Y
4	IC 410-513039/15	20.0	8.766714	50.0	967067.0	0.438336	Y
5	ICIS 410-513039/16	50.0	20.496142	50.0	1028435.0	0.409923	Y
6	IC 410-513039/17	100.0	41.150052	50.0	1027780.0	0.411501	Y
7	IC 410-513039/18	300.0	120.54364	50.0	1077920.0	0.401812	Y



Calibration

/ Isobutyl alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

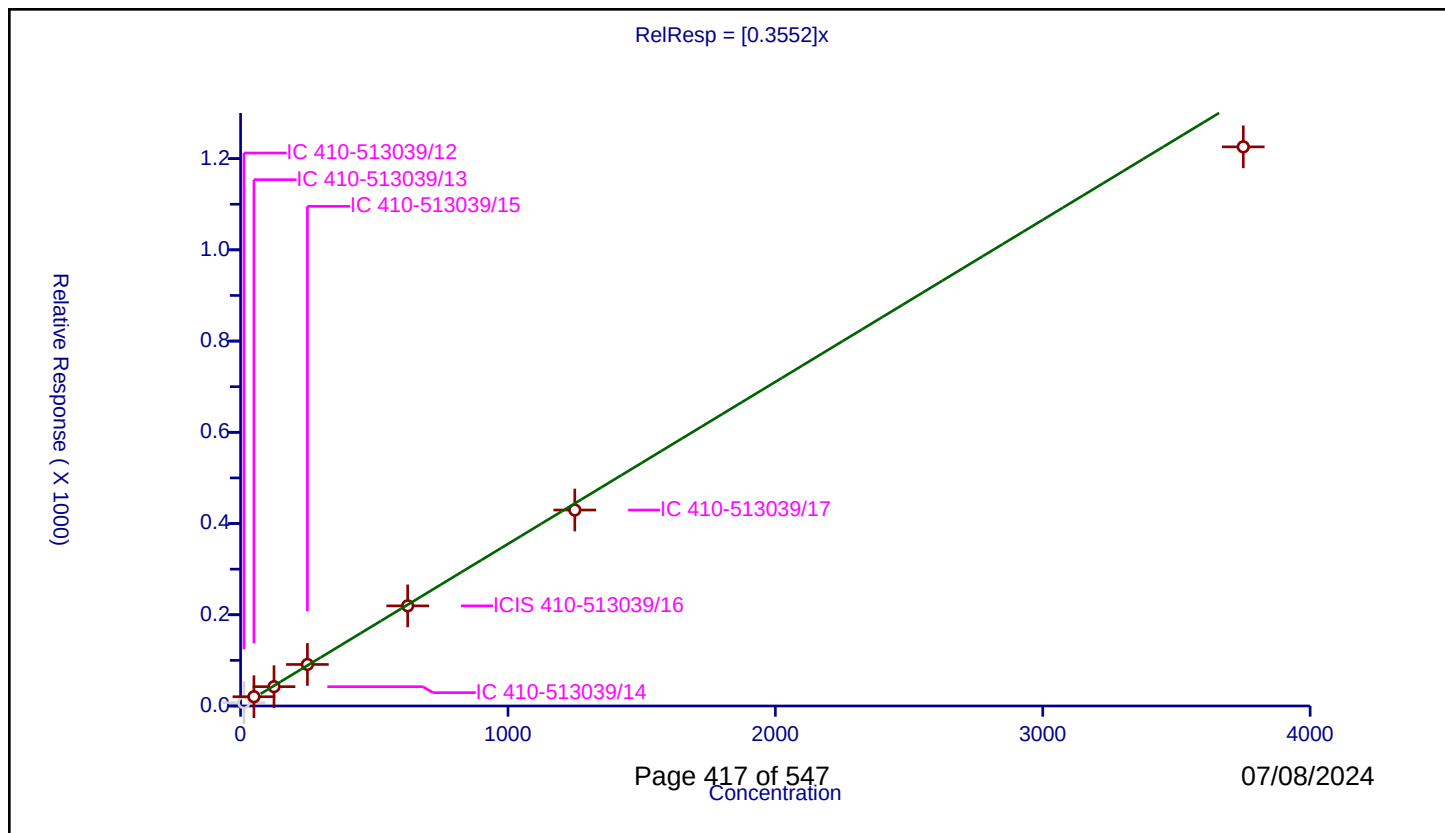
Curve Coefficients

Intercept: 0
Slope: 0.3552

Error Coefficients

Relative Standard Deviation: 7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	12.5	7.315471	250.0	325748.0	0.585238	N
2	IC 410-513039/13	50.0	20.341991	250.0	276411.0	0.40684	Y
3	IC 410-513039/14	125.0	42.331007	250.0	356996.0	0.338648	Y
4	IC 410-513039/15	250.0	91.043571	250.0	275640.0	0.364174	Y
5	ICIS 410-513039/16	625.0	219.517032	250.0	293746.0	0.351227	Y
6	IC 410-513039/17	1250.0	429.627952	250.0	305821.0	0.343702	Y
7	IC 410-513039/18	3750.0	1225.819164	250.0	324813.0	0.326885	Y



Calibration

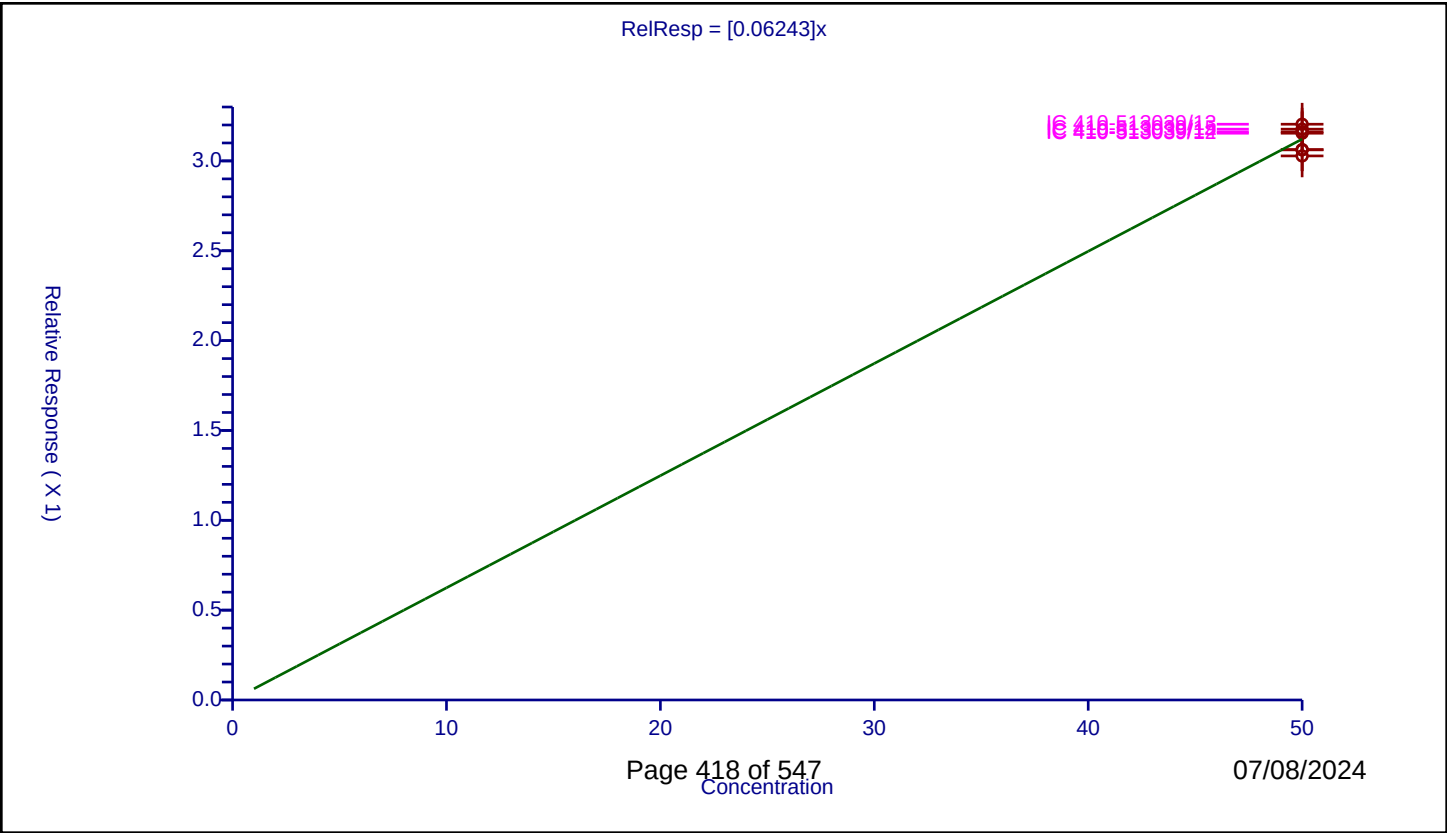
/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06243

Error Coefficients	
Relative Standard Deviation:	2.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	50.0	3.154092	50.0	950004.0	0.063082	Y
2	IC 410-513039/13	50.0	3.204246	50.0	973474.0	0.064085	Y
3	IC 410-513039/14	50.0	3.161267	50.0	979275.0	0.063225	Y
4	IC 410-513039/15	50.0	3.176874	50.0	967067.0	0.063537	Y
5	ICIS 410-513039/16	50.0	3.027756	50.0	1028435.0	0.060555	Y
6	IC 410-513039/17	50.0	3.063156	50.0	1027780.0	0.061263	Y
7	IC 410-513039/18	50.0	3.061452	50.0	1077920.0	0.061229	Y



Calibration

/ Benzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

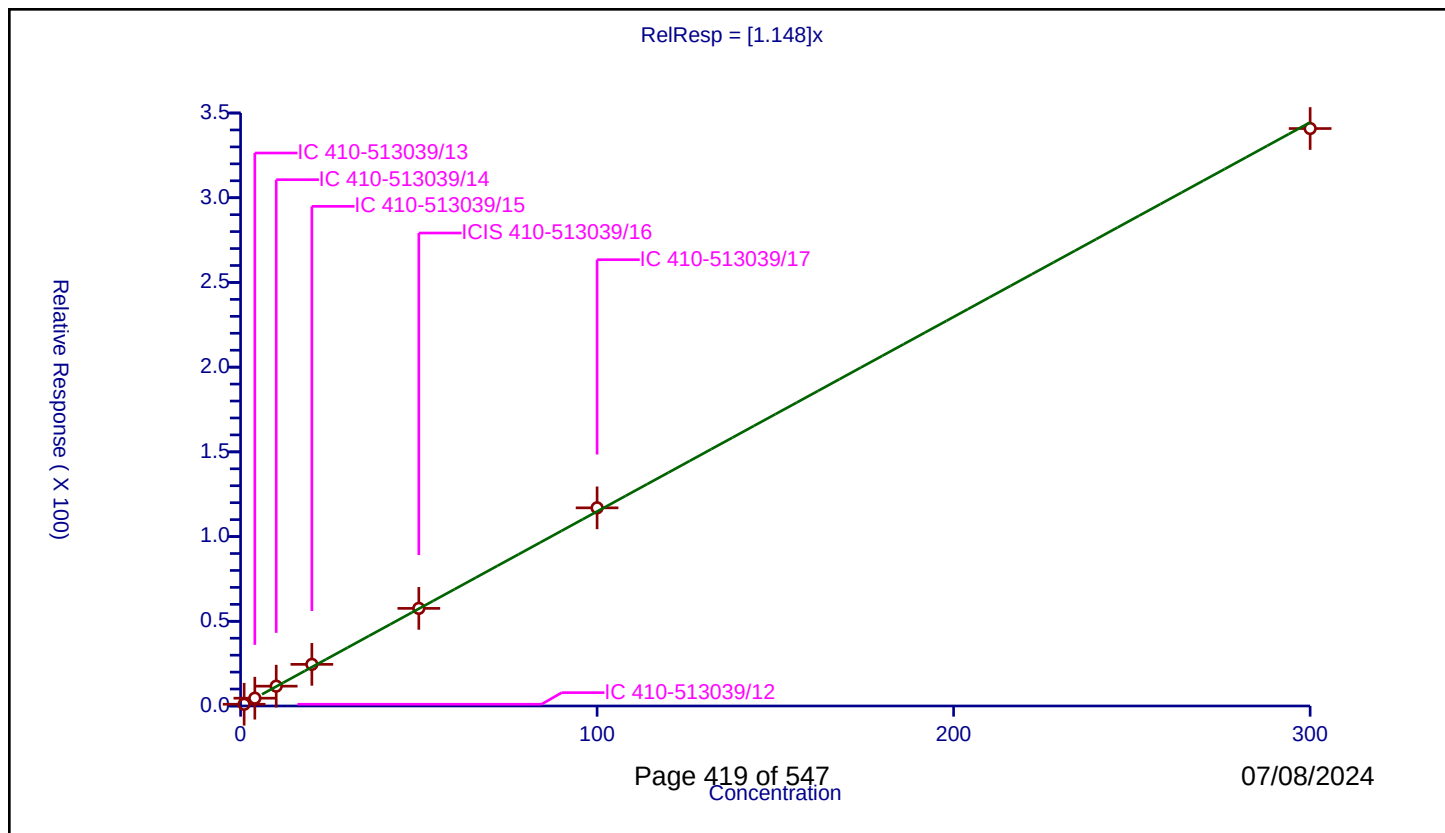
Curve Coefficients

Intercept: 0
Slope: 1.148

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.029206	50.0	950004.0	1.029206	Y
2	IC 410-513039/13	4.0	4.603205	50.0	973474.0	1.150801	Y
3	IC 410-513039/14	10.0	11.707232	50.0	979275.0	1.170723	Y
4	IC 410-513039/15	20.0	24.573065	50.0	967067.0	1.228653	Y
5	ICIS 410-513039/16	50.0	57.618517	50.0	1028435.0	1.15237	Y
6	IC 410-513039/17	100.0	116.953969	50.0	1027780.0	1.16954	Y
7	IC 410-513039/18	300.0	340.831926	50.0	1077920.0	1.136106	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

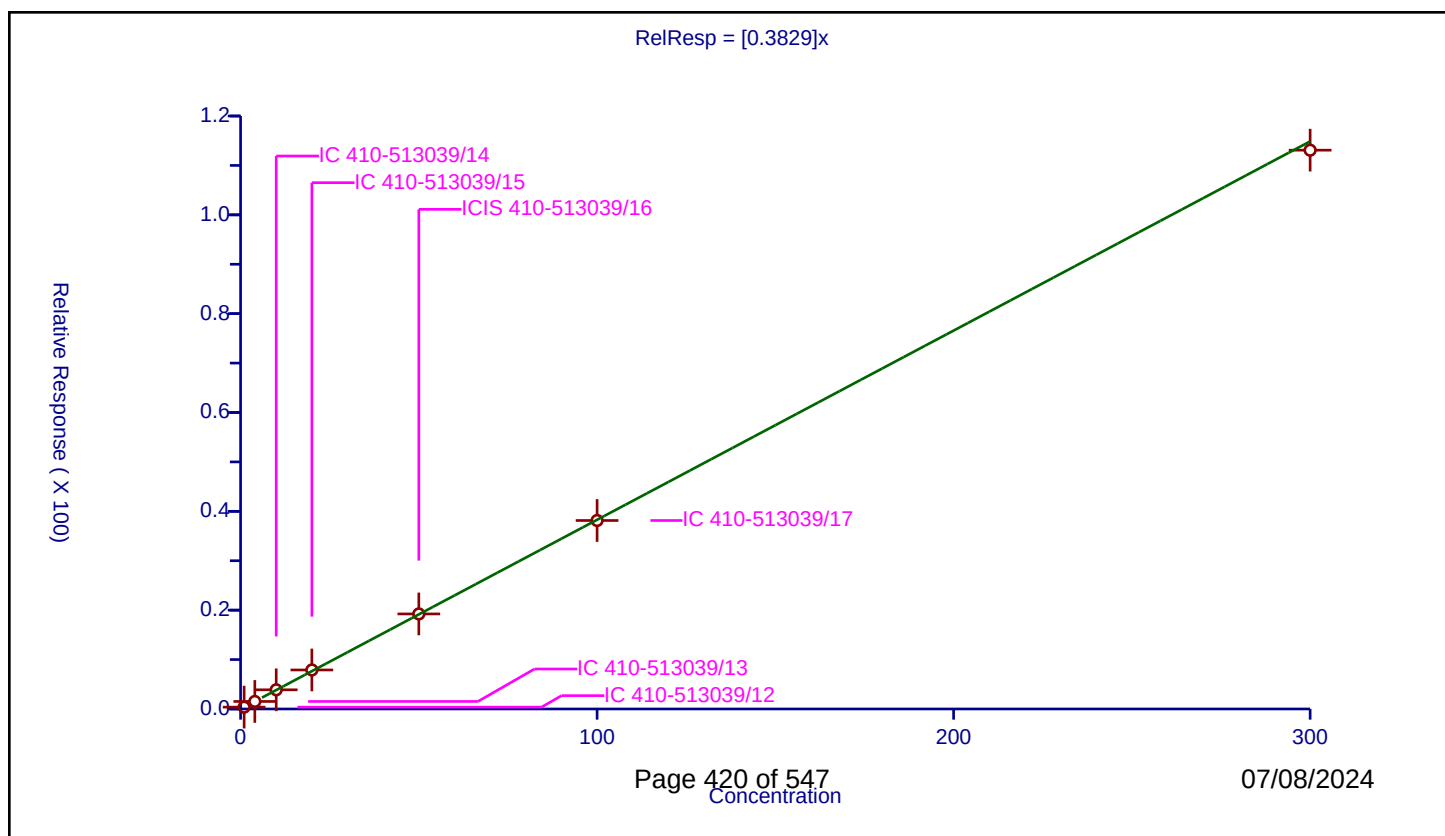
Curve Coefficients

Intercept: 0
Slope: 0.3829

Error Coefficients

Relative Standard Deviation: 1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.373051	50.0	950004.0	0.373051	Y
2	IC 410-513039/13	4.0	1.524283	50.0	973474.0	0.381071	Y
3	IC 410-513039/14	10.0	3.880422	50.0	979275.0	0.388042	Y
4	IC 410-513039/15	20.0	7.897178	50.0	967067.0	0.394859	Y
5	ICIS 410-513039/16	50.0	19.235975	50.0	1028435.0	0.38472	Y
6	IC 410-513039/17	100.0	38.144155	50.0	1027780.0	0.381442	Y
7	IC 410-513039/18	300.0	113.089422	50.0	1077920.0	0.376965	Y



Calibration

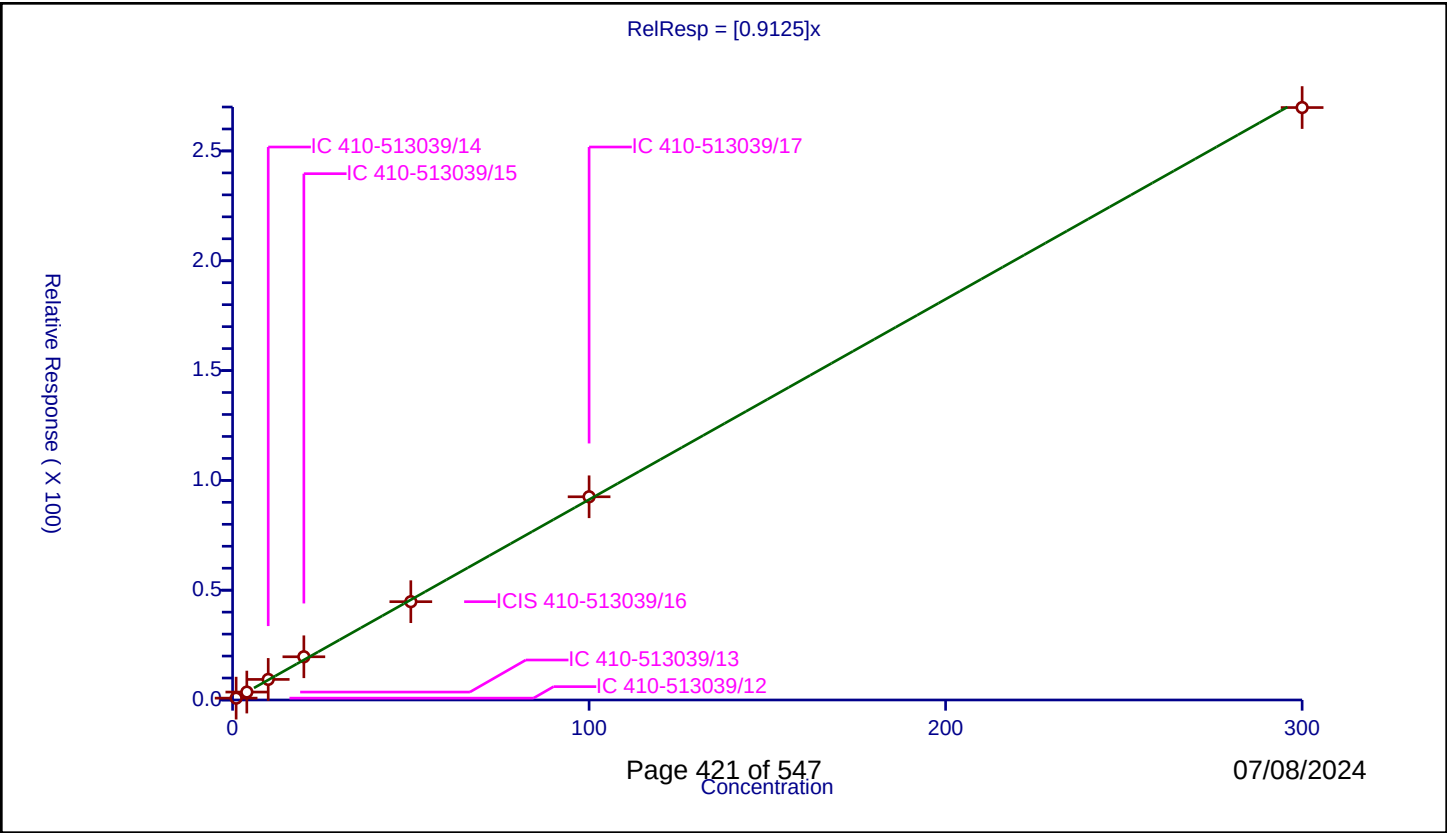
/ Tert-amyl methyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9125
Error Coefficients	

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.844049	50.0	950004.0	0.844049	Y
2	IC 410-513039/13	4.0	3.612629	50.0	973474.0	0.903157	Y
3	IC 410-513039/14	10.0	9.367185	50.0	979275.0	0.936718	Y
4	IC 410-513039/15	20.0	19.677902	50.0	967067.0	0.983895	Y
5	ICIS 410-513039/16	50.0	44.75786	50.0	1028435.0	0.895157	Y
6	IC 410-513039/17	100.0	92.526854	50.0	1027780.0	0.925269	Y
7	IC 410-513039/18	300.0	269.761346	50.0	1077920.0	0.899204	Y



Calibration

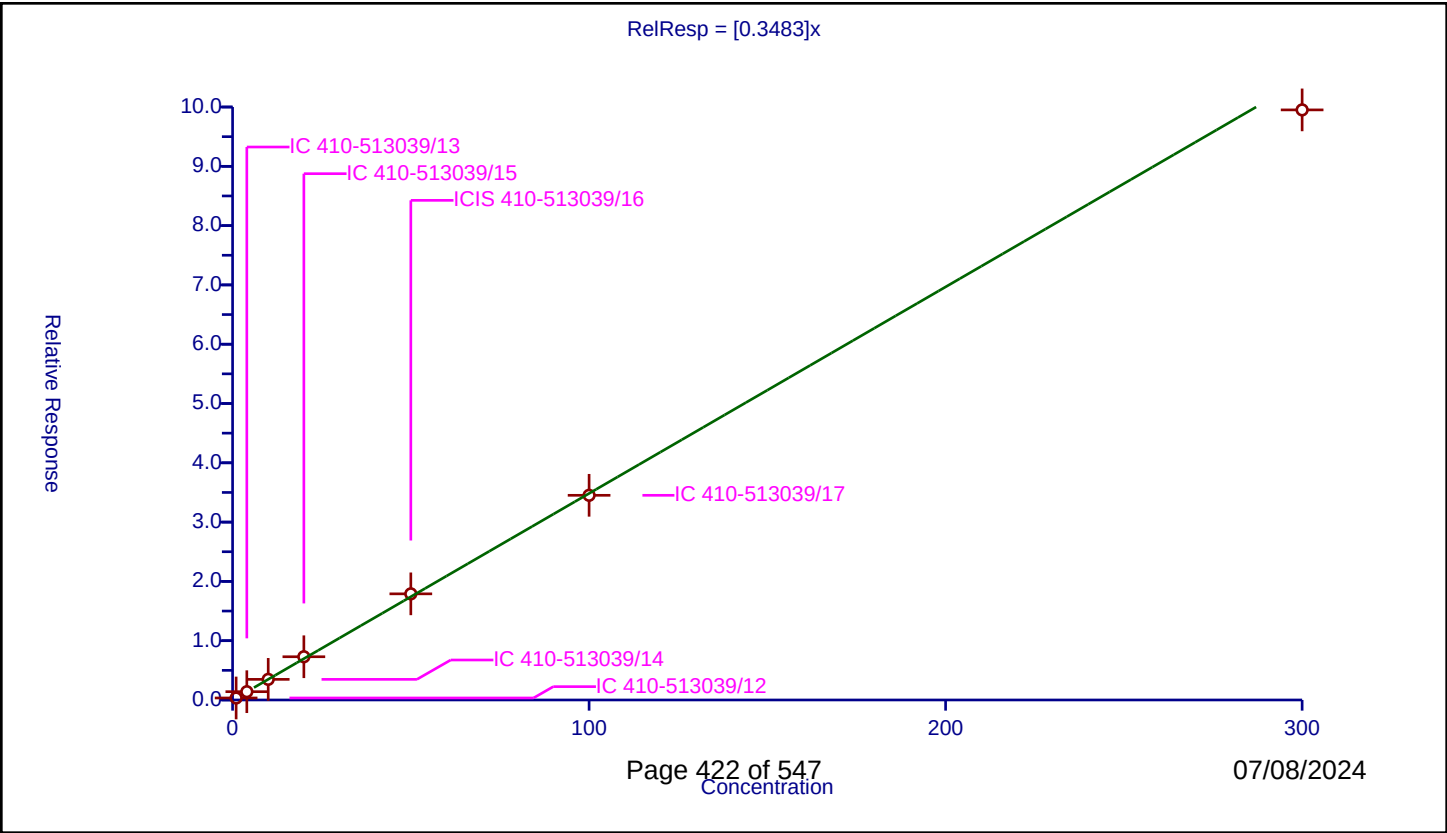
/ n-Heptane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3483
Error Coefficients	

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.340893	50.0	950004.0	0.340893	Y
2	IC 410-513039/13	4.0	1.400346	50.0	973474.0	0.350086	Y
3	IC 410-513039/14	10.0	3.476449	50.0	979275.0	0.347645	Y
4	IC 410-513039/15	20.0	7.292928	50.0	967067.0	0.364646	Y
5	ICIS 410-513039/16	50.0	17.900305	50.0	1028435.0	0.358006	Y
6	IC 410-513039/17	100.0	34.517504	50.0	1027780.0	0.345175	Y
7	IC 410-513039/18	300.0	99.516476	50.0	1077920.0	0.331722	Y



Calibration

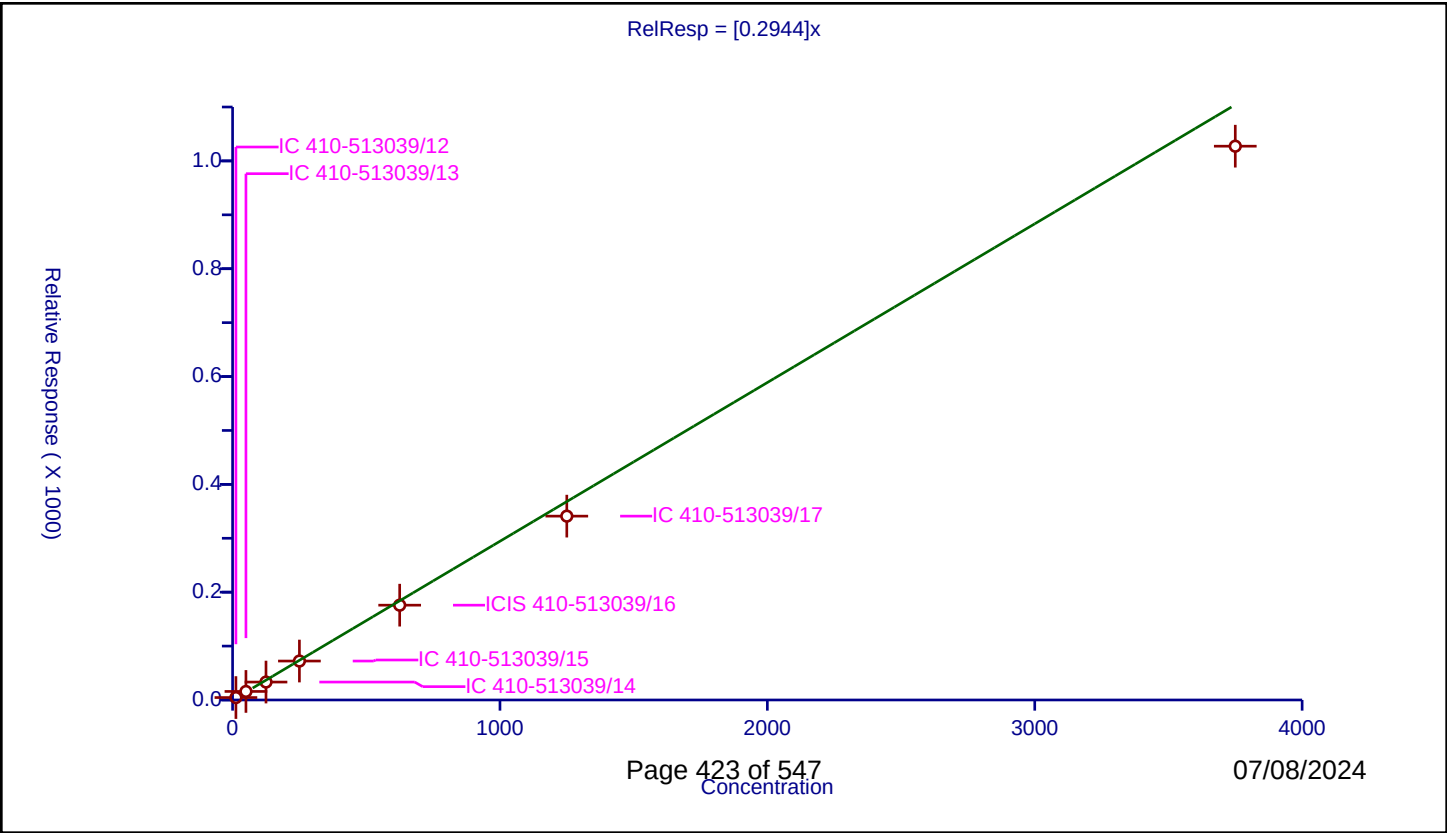
/ n-Butanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2944
Error Coefficients	

Relative Standard Deviation: 11.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	12.5	4.512691	250.0	325748.0	0.361015	Y
2	IC 410-513039/13	50.0	15.840542	250.0	276411.0	0.316811	Y
3	IC 410-513039/14	125.0	33.266479	250.0	356996.0	0.266132	Y
4	IC 410-513039/15	250.0	72.235525	250.0	275640.0	0.288942	Y
5	ICIS 410-513039/16	625.0	175.900268	250.0	293746.0	0.28144	Y
6	IC 410-513039/17	1250.0	341.056533	250.0	305821.0	0.272845	Y
7	IC 410-513039/18	3750.0	1027.328801	250.0	324813.0	0.273954	Y



Calibration

/ Trichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

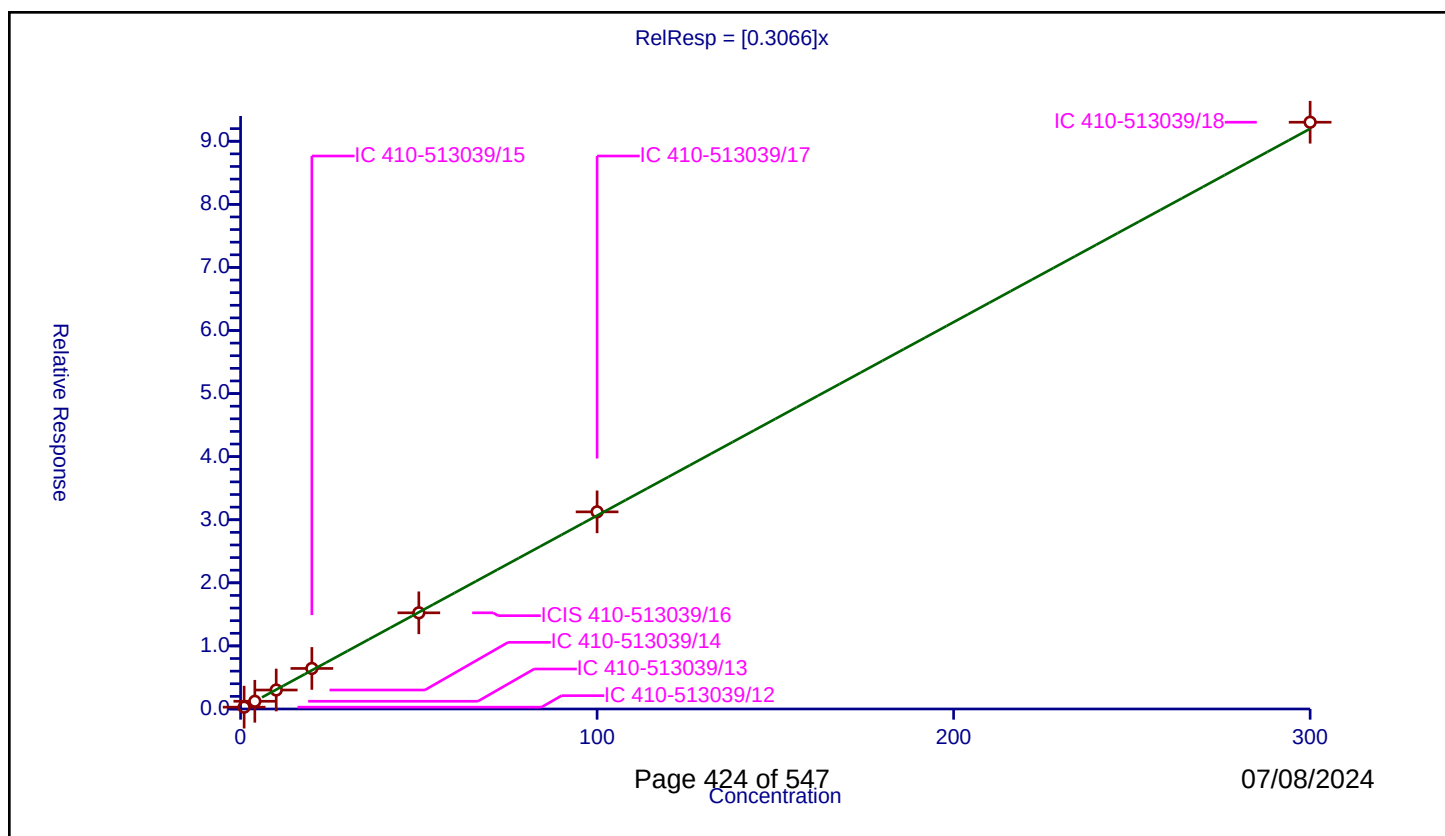
Curve Coefficients

Intercept: 0
Slope: 0.3066

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.290946	50.0	950004.0	0.290946	Y
2	IC 410-513039/13	4.0	1.223351	50.0	973474.0	0.305838	Y
3	IC 410-513039/14	10.0	3.006816	50.0	979275.0	0.300682	Y
4	IC 410-513039/15	20.0	6.42851	50.0	967067.0	0.321426	Y
5	ICIS 410-513039/16	50.0	15.243598	50.0	1028435.0	0.304872	Y
6	IC 410-513039/17	100.0	31.250219	50.0	1027780.0	0.312502	Y
7	IC 410-513039/18	300.0	93.016411	50.0	1077920.0	0.310055	Y



Calibration

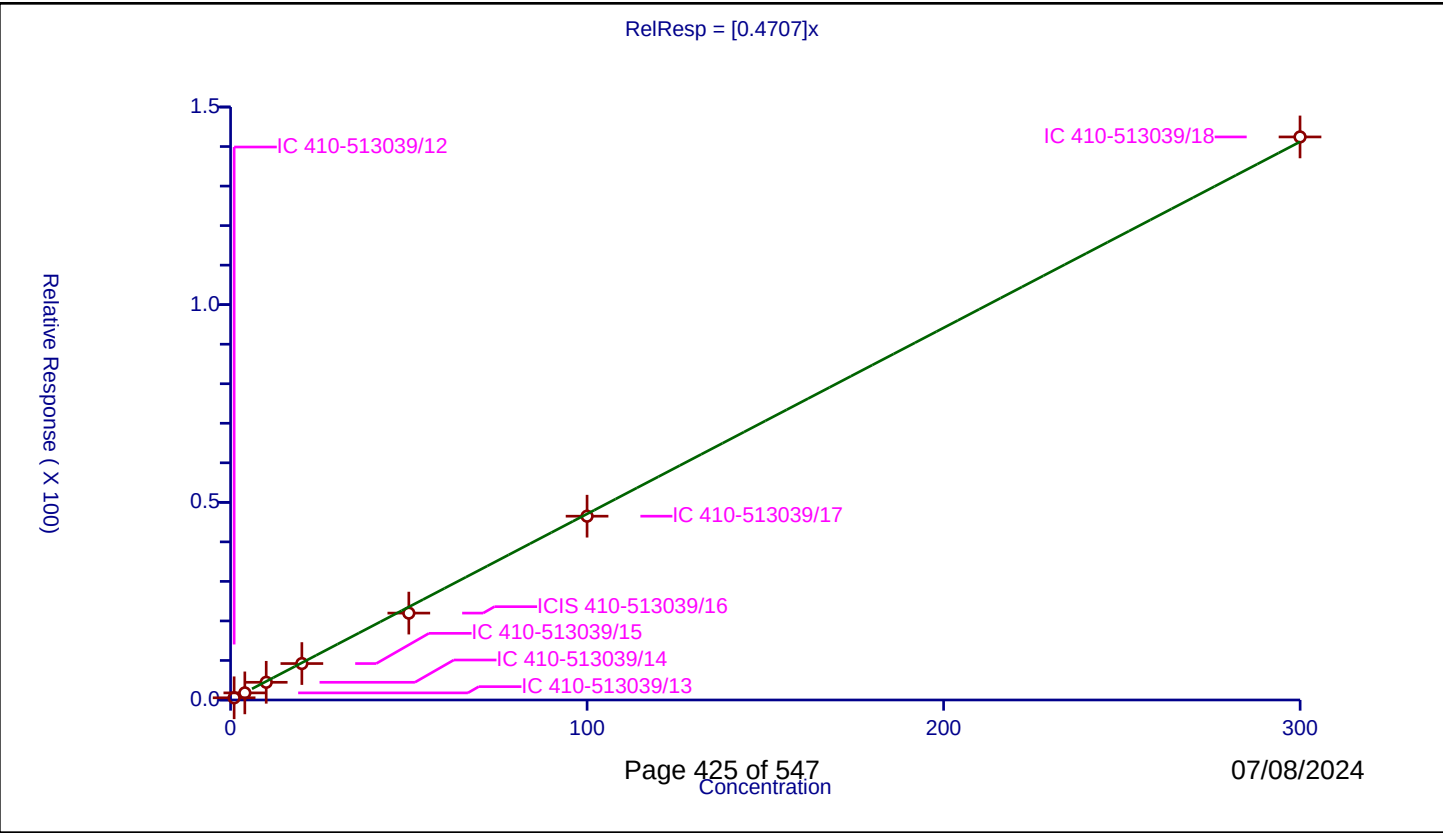
/ Ethyl acrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4707
Error Coefficients	

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	0.999919	0.55784	50.0	950004.0	0.557885	Y
2	IC 410-513039/13	3.999676	1.797069	50.0	973474.0	0.449304	Y
3	IC 410-513039/14	9.99919	4.474484	50.0	979275.0	0.447485	Y
4	IC 410-513039/15	19.99838	9.2172	50.0	967067.0	0.460897	Y
5	ICIS 410-513039/16	49.99595	21.977325	50.0	1028435.0	0.439582	Y
6	IC 410-513039/17	99.9919	46.496137	50.0	1027780.0	0.464999	Y
7	IC 410-513039/18	299.9757	142.431071	50.0	1077920.0	0.474809	Y



Calibration

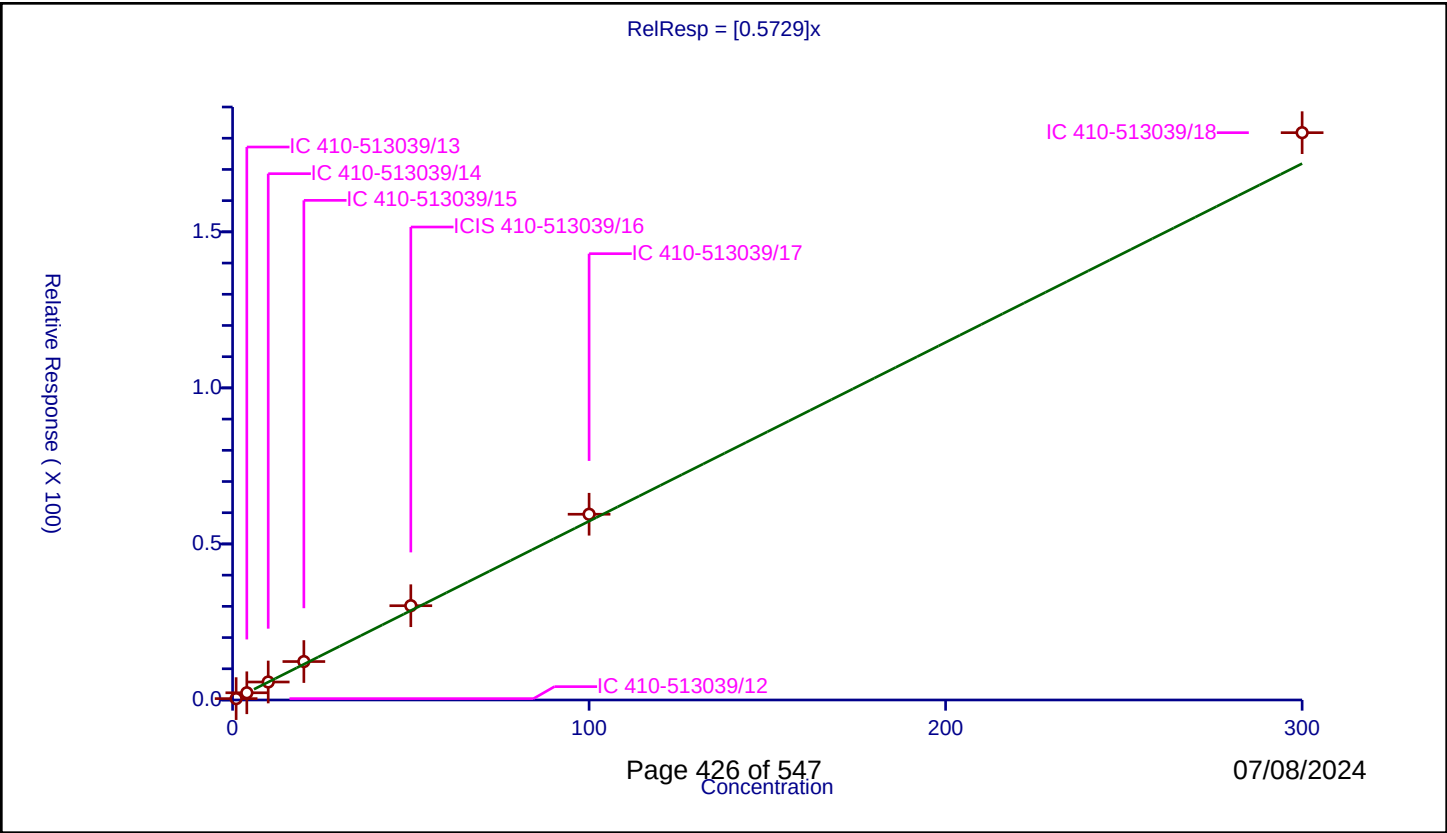
/ Methylcyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5729
Error Coefficients	

Relative Standard Deviation: 10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.435788	50.0	950004.0	0.435788	Y
2	IC 410-513039/13	4.0	2.307252	50.0	973474.0	0.576813	Y
3	IC 410-513039/14	10.0	5.765183	50.0	979275.0	0.576518	Y
4	IC 410-513039/15	20.0	12.31957	50.0	967067.0	0.615979	Y
5	ICIS 410-513039/16	50.0	30.212556	50.0	1028435.0	0.604251	Y
6	IC 410-513039/17	100.0	59.51405	50.0	1027780.0	0.59514	Y
7	IC 410-513039/18	300.0	181.780281	50.0	1077920.0	0.605934	Y



Calibration

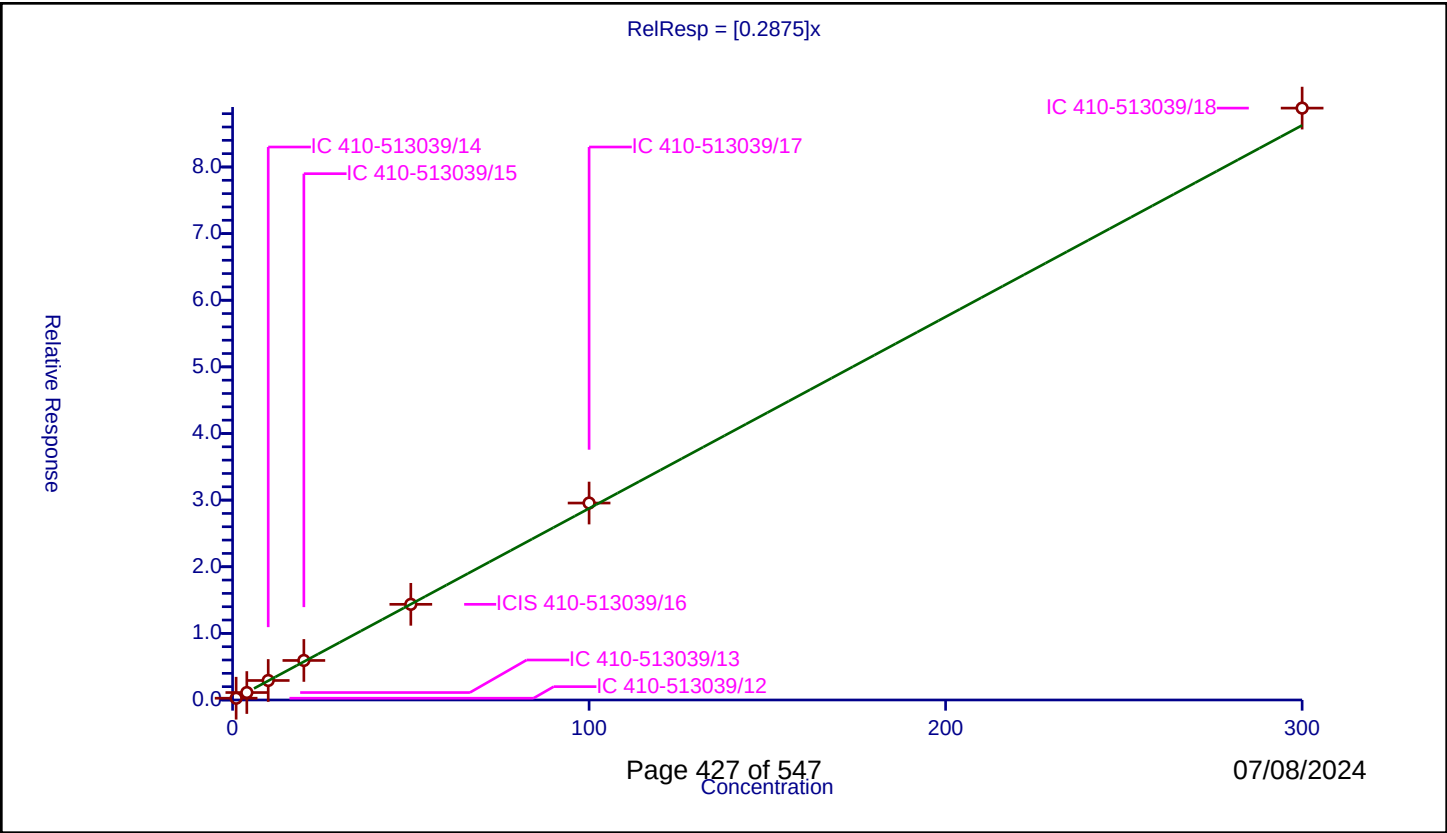
/ 1,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2875
Error Coefficients	

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.264209	50.0	950004.0	0.264209	Y
2	IC 410-513039/13	4.0	1.119907	50.0	973474.0	0.279977	Y
3	IC 410-513039/14	10.0	2.928187	50.0	979275.0	0.292819	Y
4	IC 410-513039/15	20.0	5.933818	50.0	967067.0	0.296691	Y
5	ICIS 410-513039/16	50.0	14.357981	50.0	1028435.0	0.28716	Y
6	IC 410-513039/17	100.0	29.55939	50.0	1027780.0	0.295594	Y
7	IC 410-513039/18	300.0	88.834329	50.0	1077920.0	0.296114	Y



Calibration

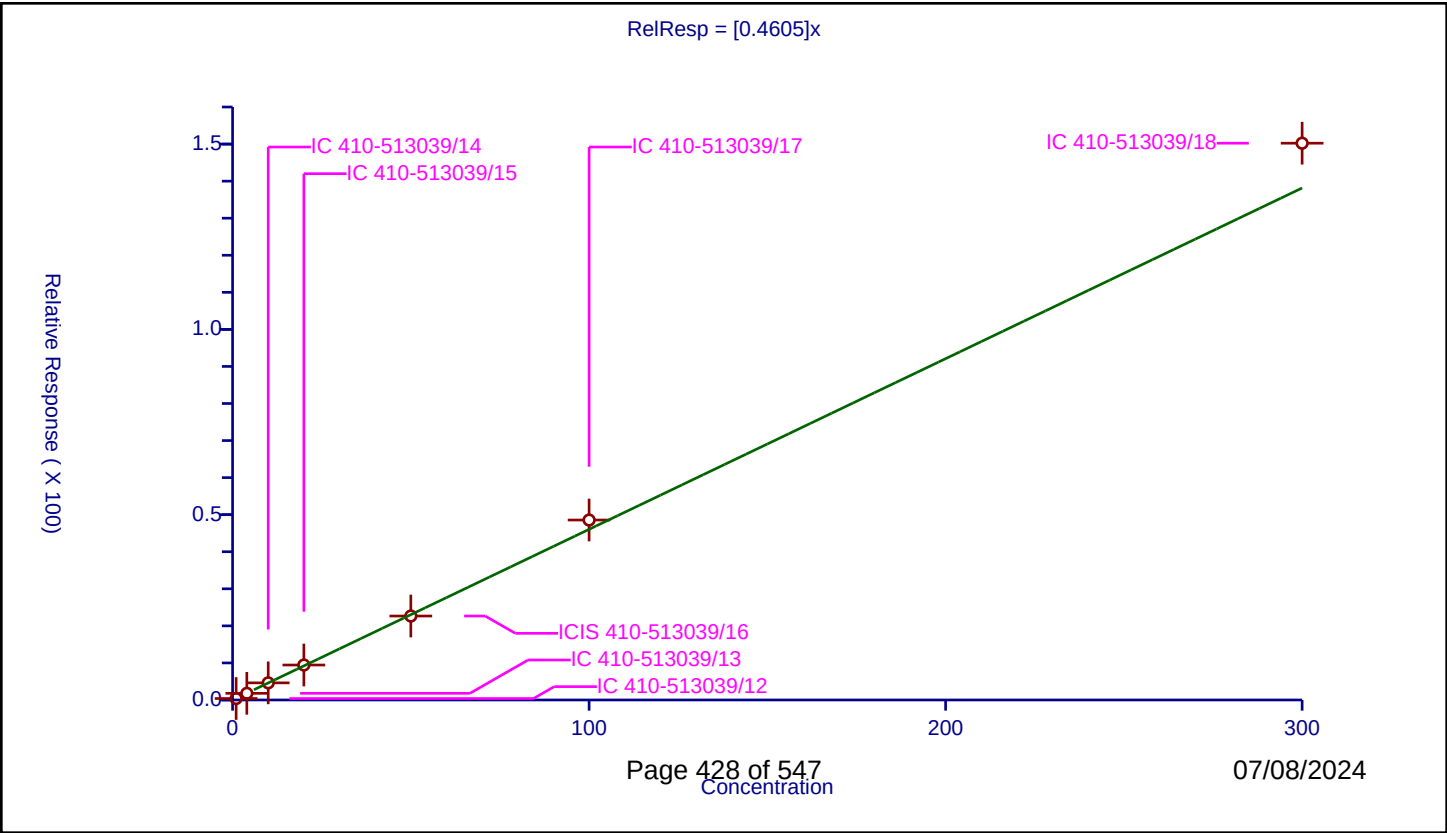
/ 2-ethoxy-2-methyl butane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4605
Error Coefficients	

Relative Standard Deviation: 6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.401893	50.0	950004.0	0.401893	Y
2	IC 410-513039/13	4.0	1.791881	50.0	973474.0	0.44797	Y
3	IC 410-513039/14	10.0	4.623523	50.0	979275.0	0.462352	Y
4	IC 410-513039/15	20.0	9.435386	50.0	967067.0	0.471769	Y
5	ICIS 410-513039/16	50.0	22.654859	50.0	1028435.0	0.453097	Y
6	IC 410-513039/17	100.0	48.555917	50.0	1027780.0	0.485559	Y
7	IC 410-513039/18	300.0	150.233969	50.0	1077920.0	0.50078	Y



Calibration

/ Methyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

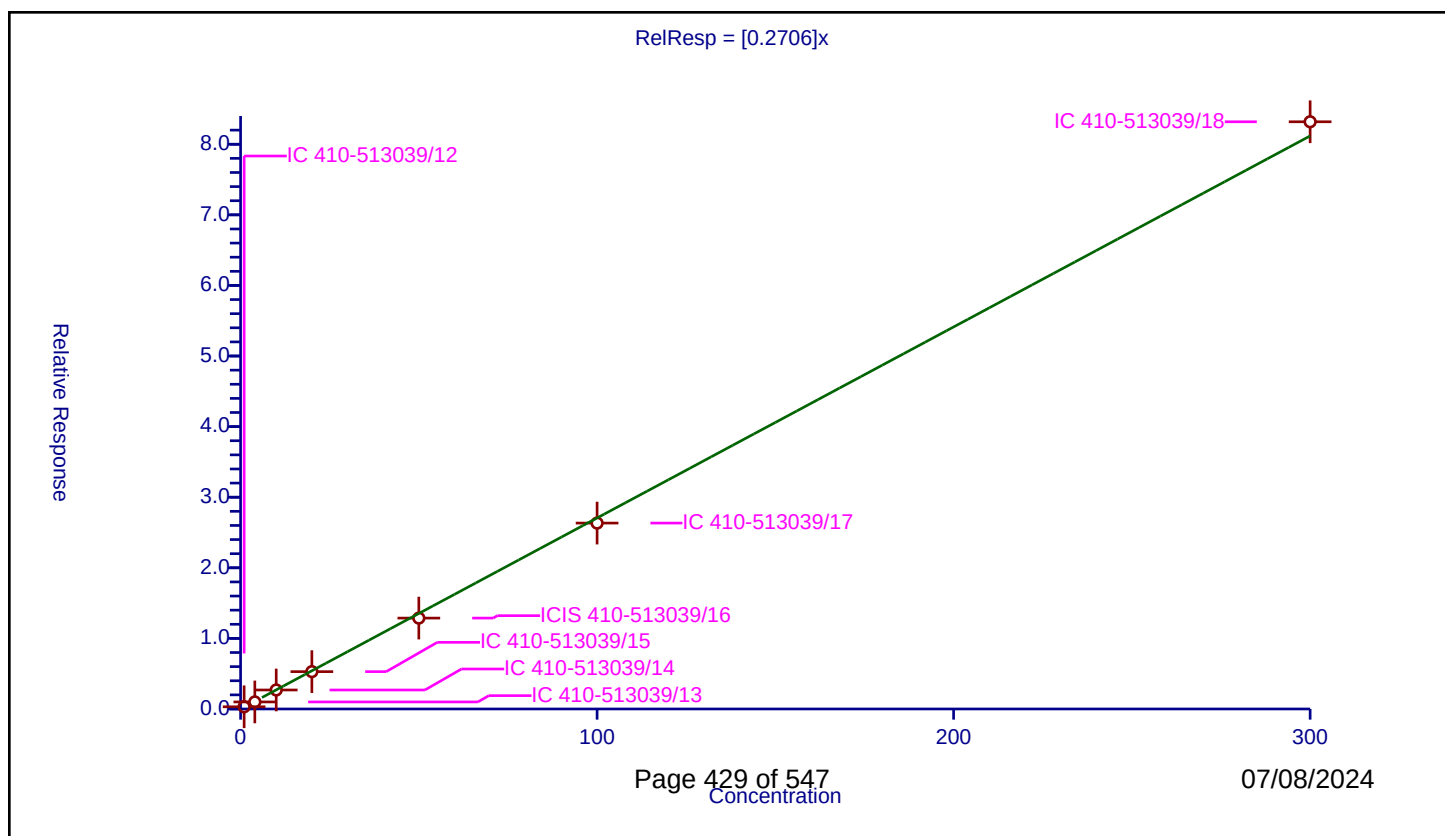
Curve Coefficients

Intercept: 0
Slope: 0.2706

Error Coefficients

Relative Standard Deviation: 7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.312051	50.0	950004.0	0.312051	Y
2	IC 410-513039/13	4.0	1.00054	50.0	973474.0	0.250135	Y
3	IC 410-513039/14	10.0	2.69286	50.0	979275.0	0.269286	Y
4	IC 410-513039/15	20.0	5.291205	50.0	967067.0	0.26456	Y
5	ICIS 410-513039/16	50.0	12.87534	50.0	1028435.0	0.257507	Y
6	IC 410-513039/17	100.0	26.33477	50.0	1027780.0	0.263348	Y
7	IC 410-513039/18	300.0	83.184466	50.0	1077920.0	0.277282	Y



Calibration

/ 1,4-Dioxane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

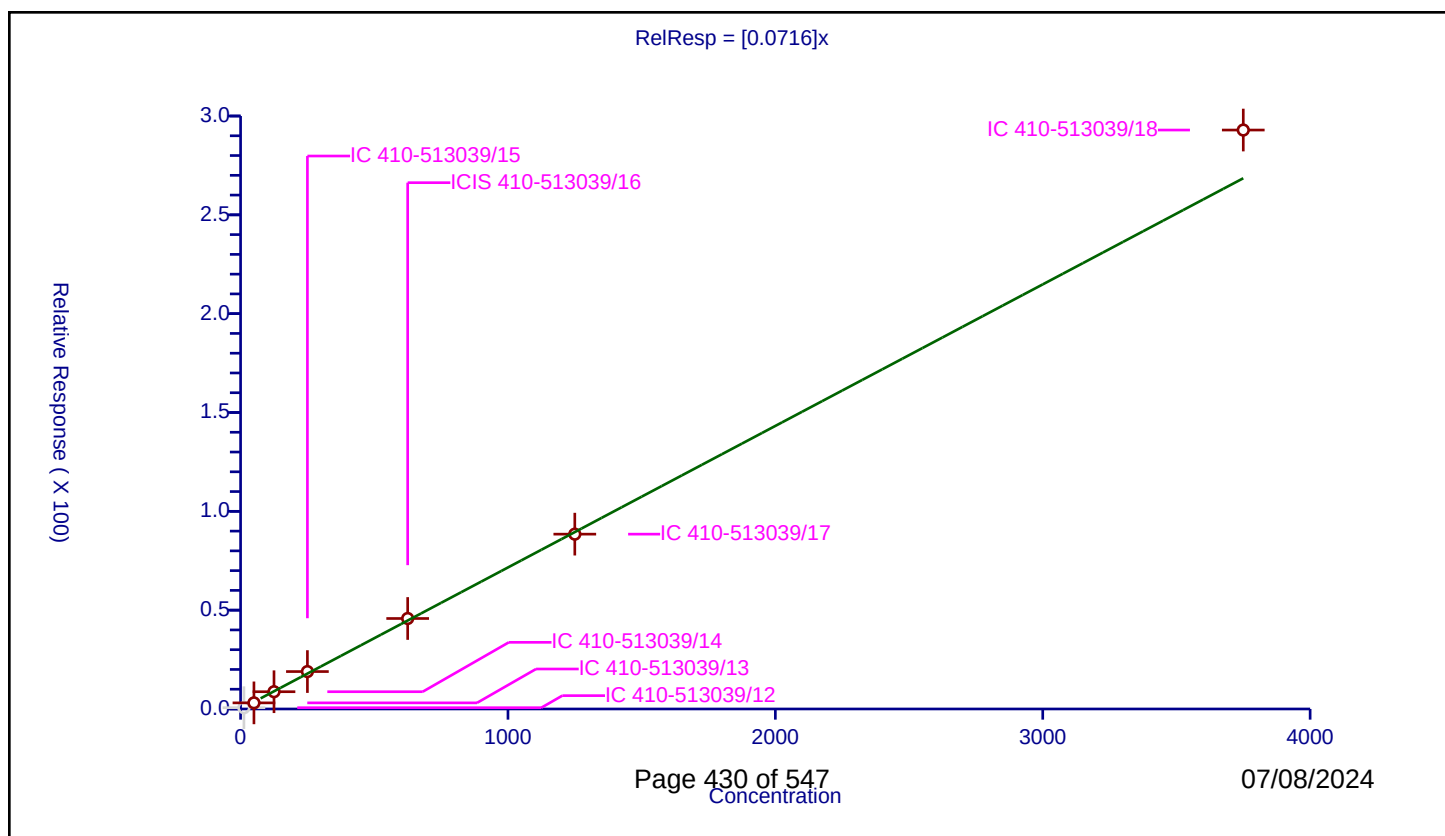
Curve Coefficients

Intercept: 0
Slope: 0.0716

Error Coefficients

Relative Standard Deviation: 7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	12.5	0.650042	250.0	325748.0	0.052003	N
2	IC 410-513039/13	50.0	3.095933	250.0	276411.0	0.061919	Y
3	IC 410-513039/14	125.0	8.731891	250.0	356996.0	0.069855	Y
4	IC 410-513039/15	250.0	18.930489	250.0	275640.0	0.075722	Y
5	ICIS 410-513039/16	625.0	45.783602	250.0	293746.0	0.073254	Y
6	IC 410-513039/17	1250.0	88.461061	250.0	305821.0	0.070769	Y
7	IC 410-513039/18	3750.0	292.898529	250.0	324813.0	0.078106	Y

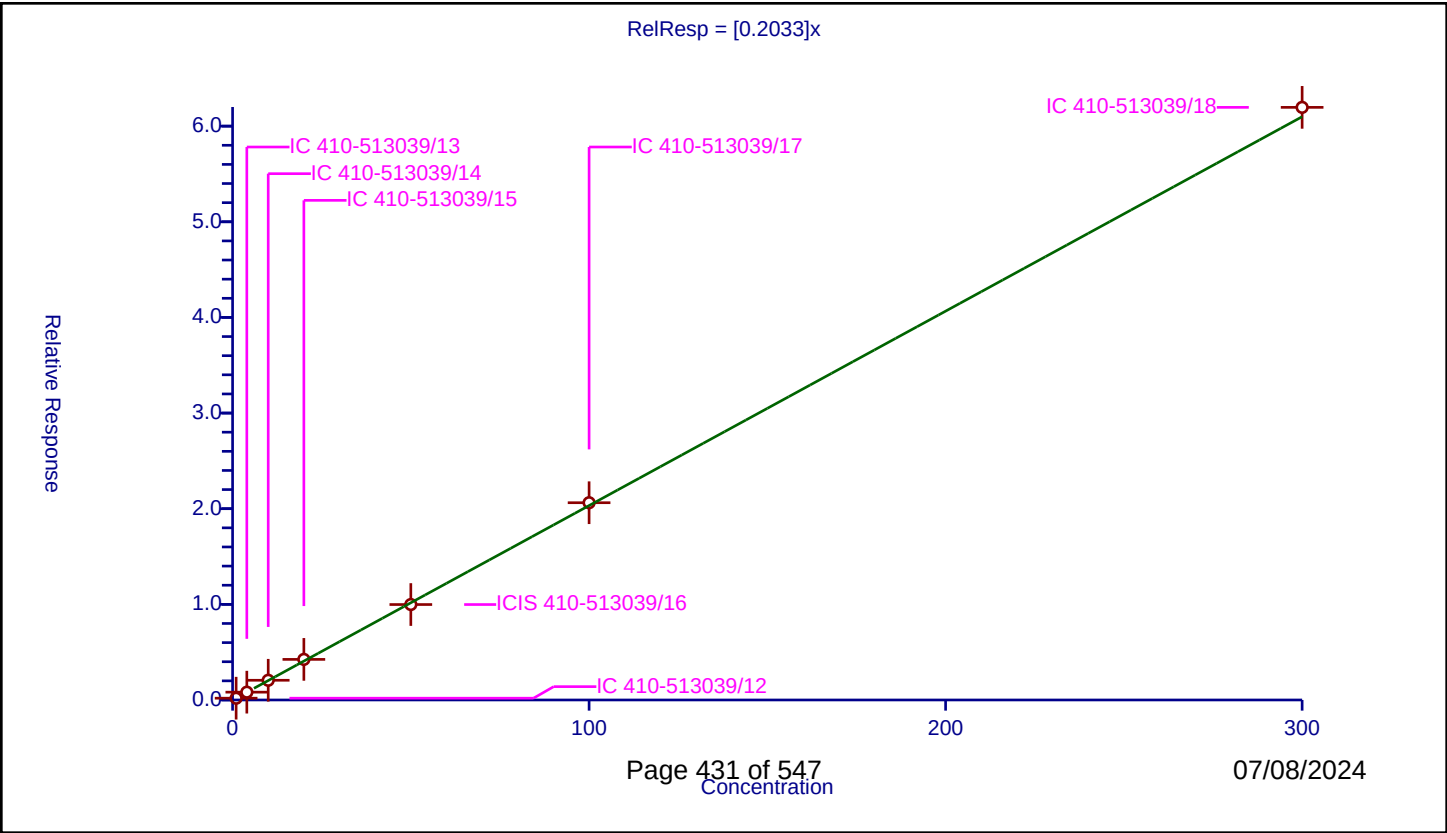


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2033
Error Coefficients	

Relative Standard Deviation: 3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.187789	50.0	950004.0	0.187789	Y
2	IC 410-513039/13	4.0	0.817228	50.0	973474.0	0.204307	Y
3	IC 410-513039/14	10.0	2.06224	50.0	979275.0	0.206224	Y
4	IC 410-513039/15	20.0	4.244794	50.0	967067.0	0.21224	Y
5	ICIS 410-513039/16	50.0	9.981331	50.0	1028435.0	0.199627	Y
6	IC 410-513039/17	100.0	20.626885	50.0	1027780.0	0.206269	Y
7	IC 410-513039/18	300.0	61.963365	50.0	1077920.0	0.206545	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

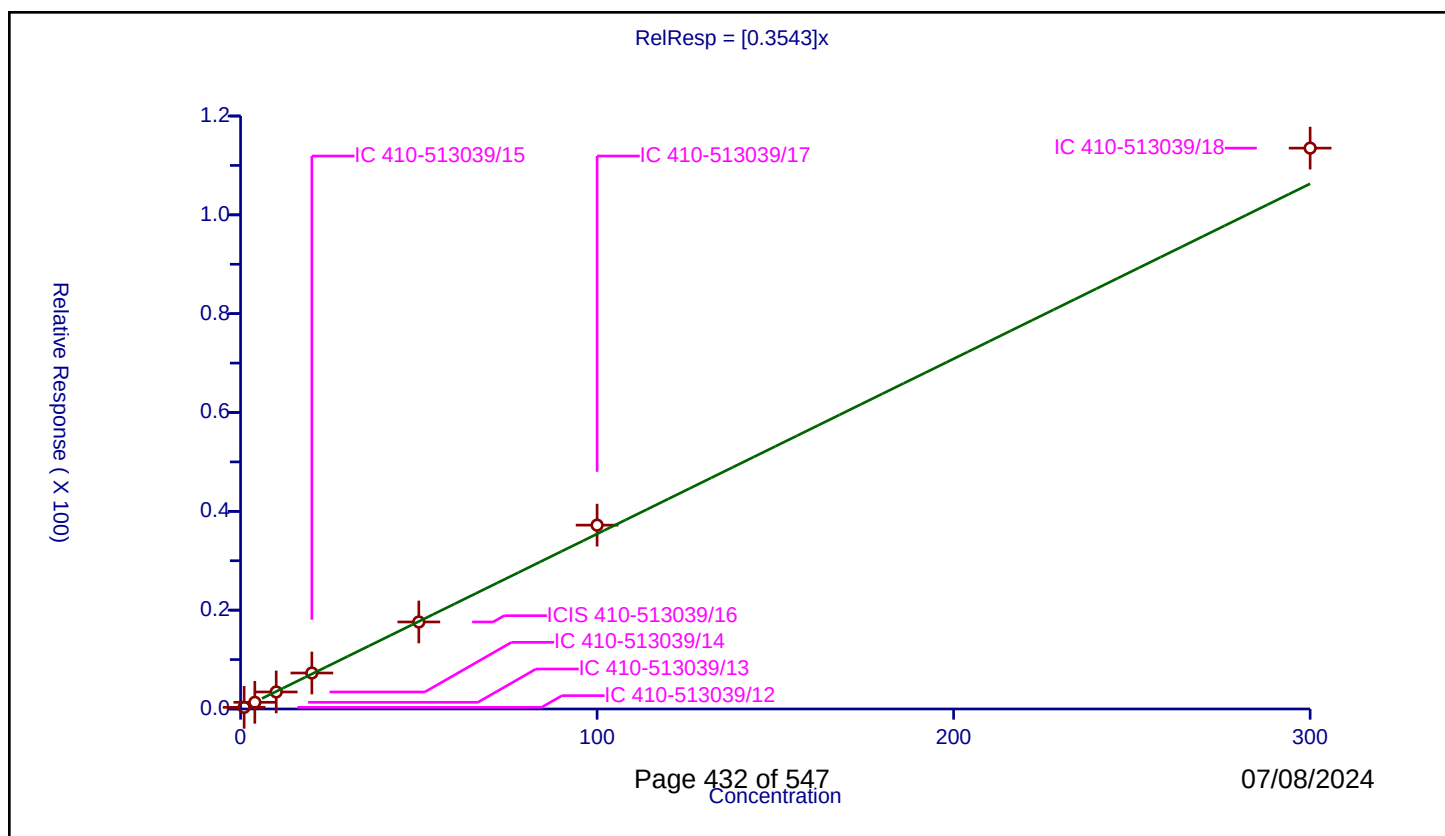
Curve Coefficients

Intercept: 0
Slope: 0.3543

Error Coefficients

Relative Standard Deviation: 5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.331367	50.0	950004.0	0.331367	Y
2	IC 410-513039/13	4.0	1.350062	50.0	973474.0	0.337515	Y
3	IC 410-513039/14	10.0	3.447091	50.0	979275.0	0.344709	Y
4	IC 410-513039/15	20.0	7.281191	50.0	967067.0	0.36406	Y
5	ICIS 410-513039/16	50.0	17.608843	50.0	1028435.0	0.352177	Y
6	IC 410-513039/17	100.0	37.203925	50.0	1027780.0	0.372039	Y
7	IC 410-513039/18	300.0	113.502904	50.0	1077920.0	0.378343	Y



Calibration

/ 2-Nitropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

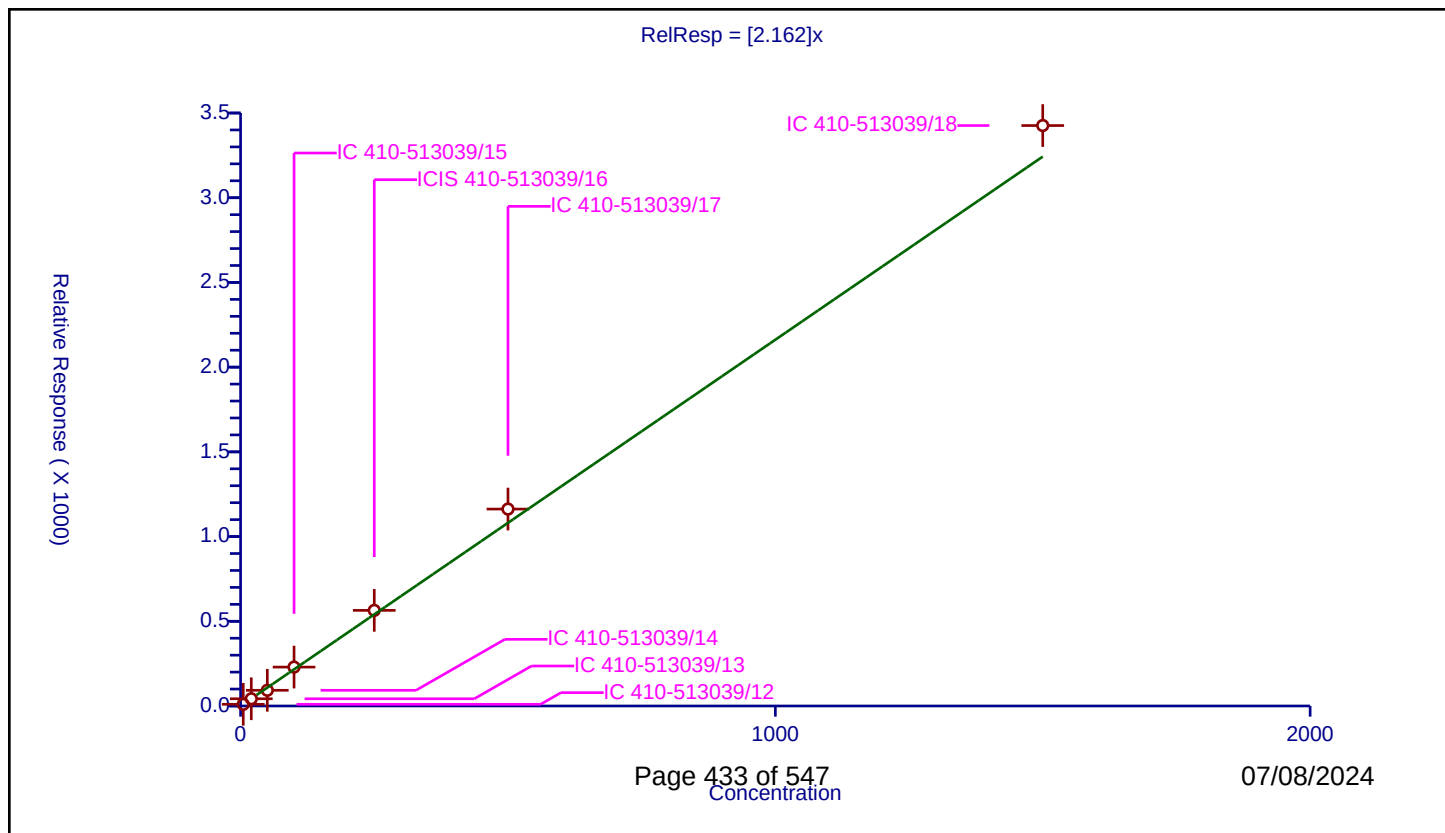
Curve Coefficients

Intercept: 0
Slope: 2.162

Error Coefficients

Relative Standard Deviation: 8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	5.0	9.953246	250.0	325748.0	1.990649	Y
2	IC 410-513039/13	20.0	42.516398	250.0	276411.0	2.12582	Y
3	IC 410-513039/14	50.0	92.699918	250.0	356996.0	1.853998	Y
4	IC 410-513039/15	100.0	229.586598	250.0	275640.0	2.295866	Y
5	ICIS 410-513039/16	250.0	564.354068	250.0	293746.0	2.257416	Y
6	IC 410-513039/17	500.0	1162.353141	250.0	305821.0	2.324706	Y
7	IC 410-513039/18	1500.0	3426.075927	250.0	324813.0	2.284051	Y



Calibration

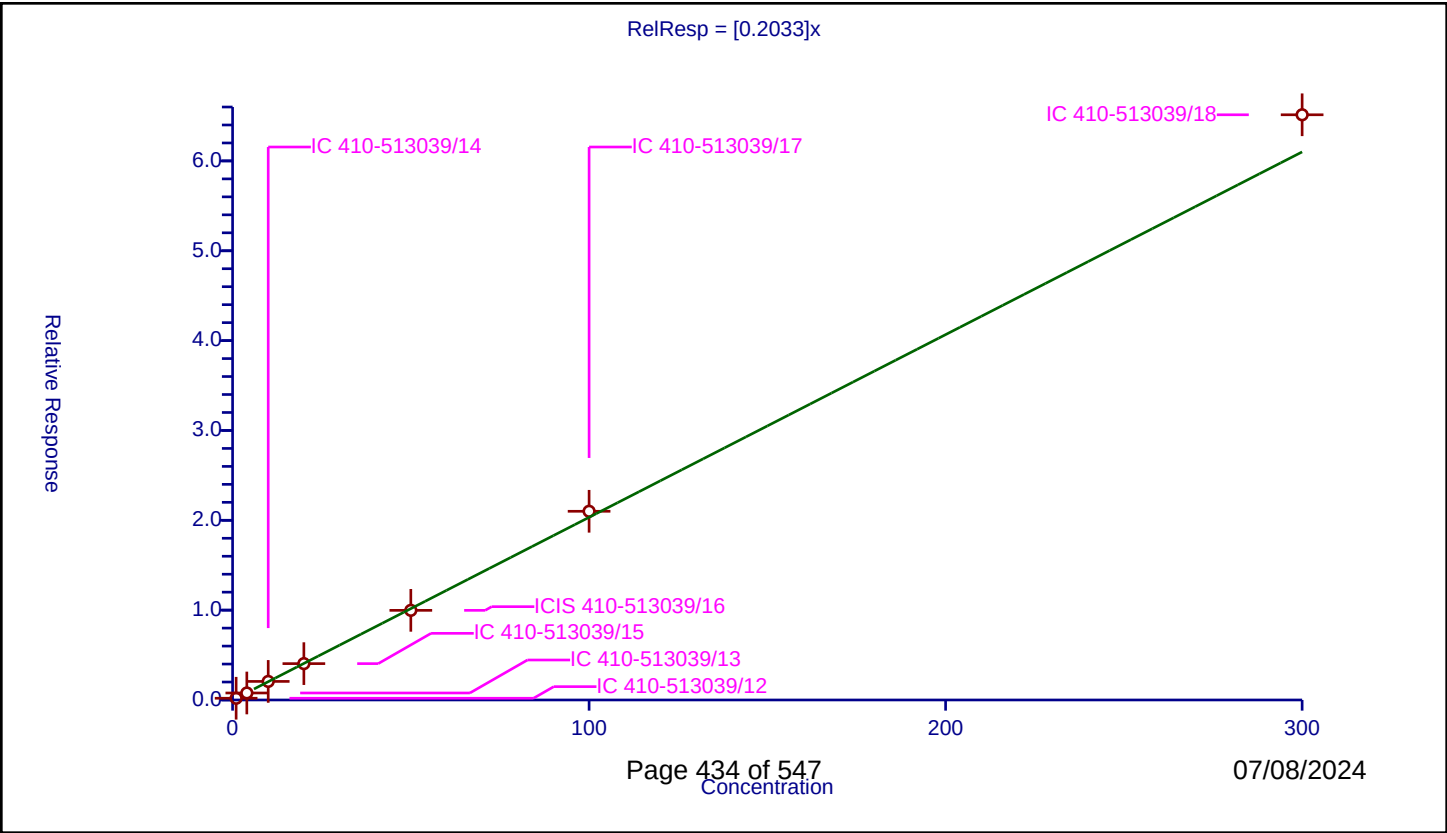
/ 2-Chloroethyl vinyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2033
Error Coefficients	

Relative Standard Deviation: 4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.193315	50.0	950004.0	0.193315	Y
2	IC 410-513039/13	4.0	0.777884	50.0	973474.0	0.194471	Y
3	IC 410-513039/14	10.0	2.065814	50.0	979275.0	0.206581	Y
4	IC 410-513039/15	20.0	4.046669	50.0	967067.0	0.202333	Y
5	ICIS 410-513039/16	50.0	9.975886	50.0	1028435.0	0.199518	Y
6	IC 410-513039/17	100.0	21.003668	50.0	1027780.0	0.210037	Y
7	IC 410-513039/18	300.0	65.135121	50.0	1077920.0	0.217117	Y



Calibration

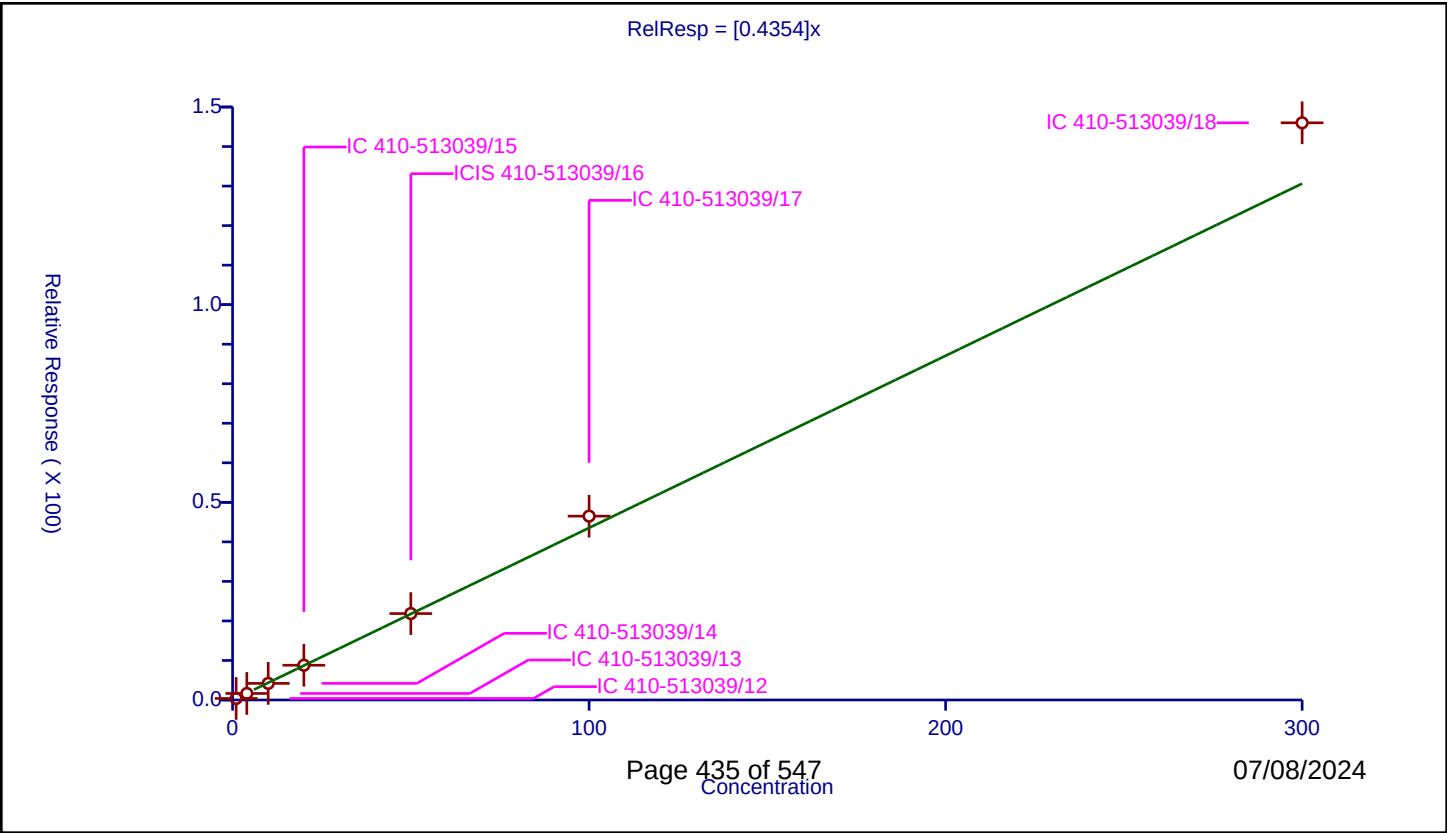
/ cis-1,3-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4354
Error Coefficients	

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.387051	50.0	950004.0	0.387051	Y
2	IC 410-513039/13	4.0	1.647193	50.0	973474.0	0.411798	Y
3	IC 410-513039/14	10.0	4.201833	50.0	979275.0	0.420183	Y
4	IC 410-513039/15	20.0	8.794996	50.0	967067.0	0.43975	Y
5	ICIS 410-513039/16	50.0	21.862004	50.0	1028435.0	0.43724	Y
6	IC 410-513039/17	100.0	46.509224	50.0	1027780.0	0.465092	Y
7	IC 410-513039/18	300.0	146.00462	50.0	1077920.0	0.486682	Y



Calibration

/ 4-Methyl-2-pentanone (MIBK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

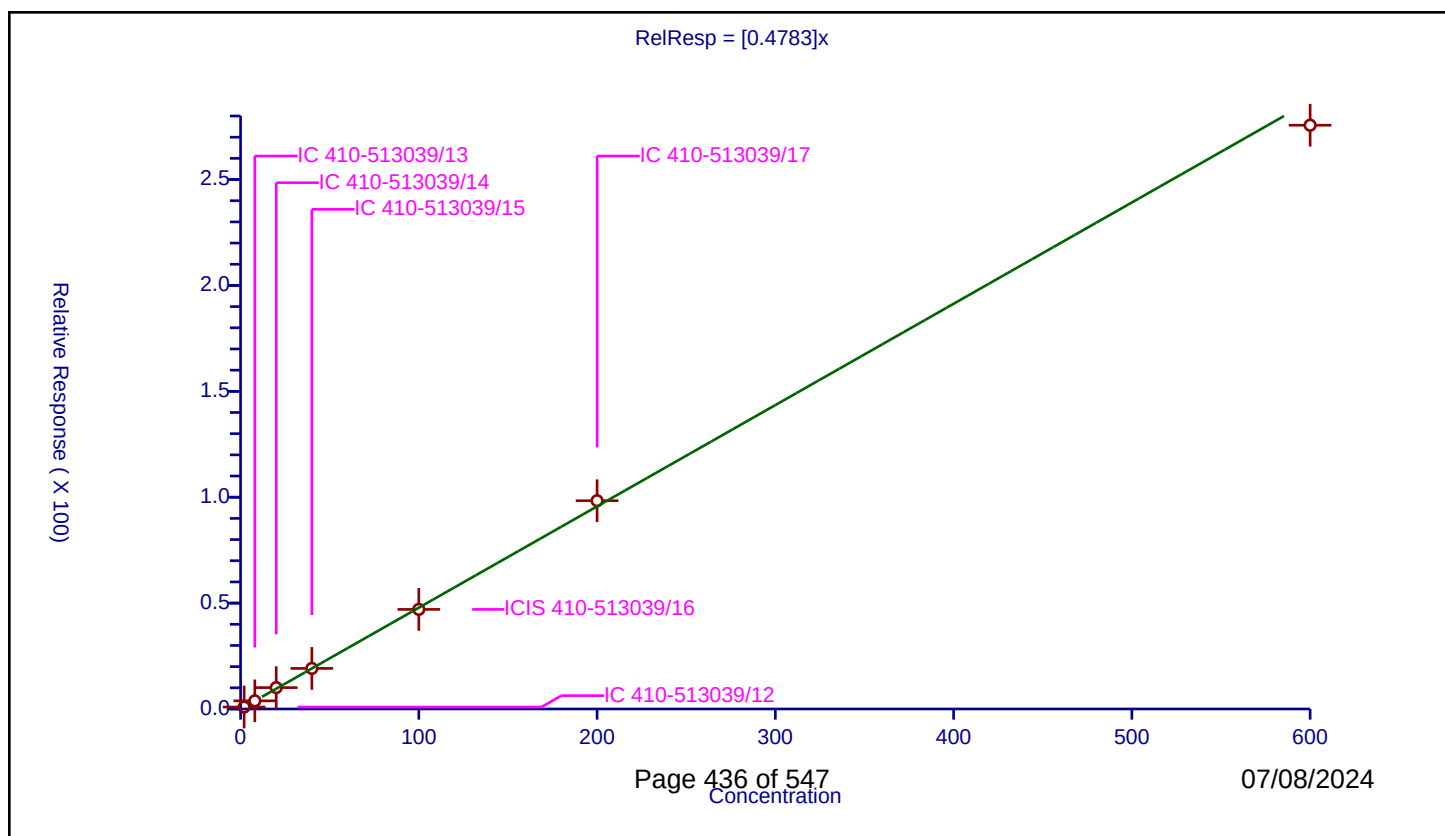
Curve Coefficients

Intercept: 0
 Slope: 0.4783

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	2.0	0.926312	50.0	950004.0	0.463156	Y
2	IC 410-513039/13	8.0	3.844222	50.0	973474.0	0.480528	Y
3	IC 410-513039/14	20.0	10.090526	50.0	979275.0	0.504526	Y
4	IC 410-513039/15	40.0	19.152965	50.0	967067.0	0.478824	Y
5	ICIS 410-513039/16	100.0	47.025869	50.0	1028435.0	0.470259	Y
6	IC 410-513039/17	200.0	98.330382	50.0	1027780.0	0.491652	Y
7	IC 410-513039/18	600.0	275.656357	50.0	1077920.0	0.459427	Y



Calibration

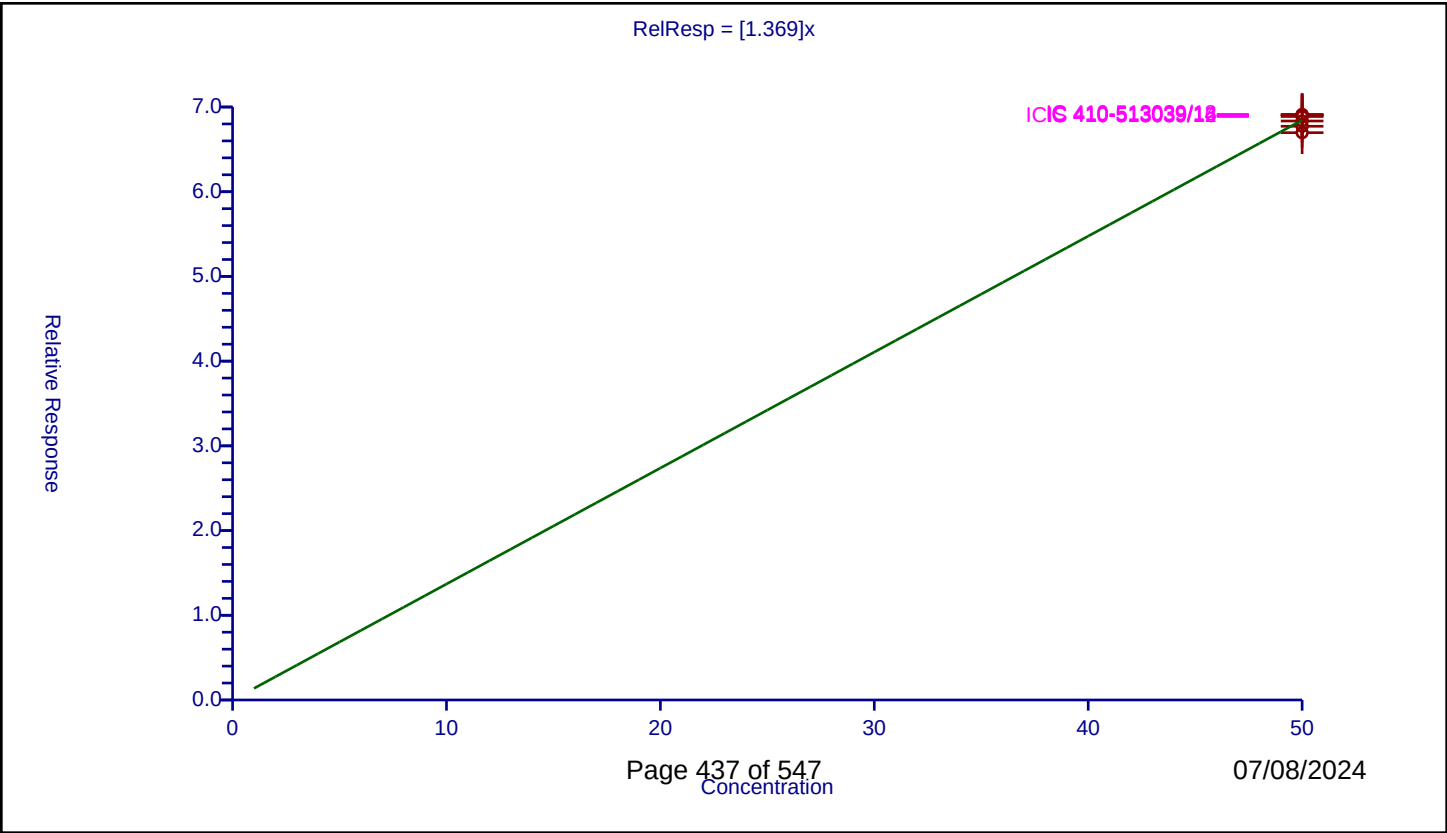
/ Toluene-d8 (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.369

Error Coefficients	
Relative Standard Deviation:	1.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	50.0	68.981152	50.0	691781.0	1.379623	Y
2	IC 410-513039/13	50.0	69.114414	50.0	715842.0	1.382288	Y
3	IC 410-513039/14	50.0	69.094108	50.0	712657.0	1.381882	Y
4	IC 410-513039/15	50.0	68.346833	50.0	725305.0	1.366937	Y
5	ICIS 410-513039/16	50.0	68.877909	50.0	766952.0	1.377558	Y
6	IC 410-513039/17	50.0	67.728504	50.0	799275.0	1.35457	Y
7	IC 410-513039/18	50.0	66.972143	50.0	886267.0	1.339443	Y



Calibration

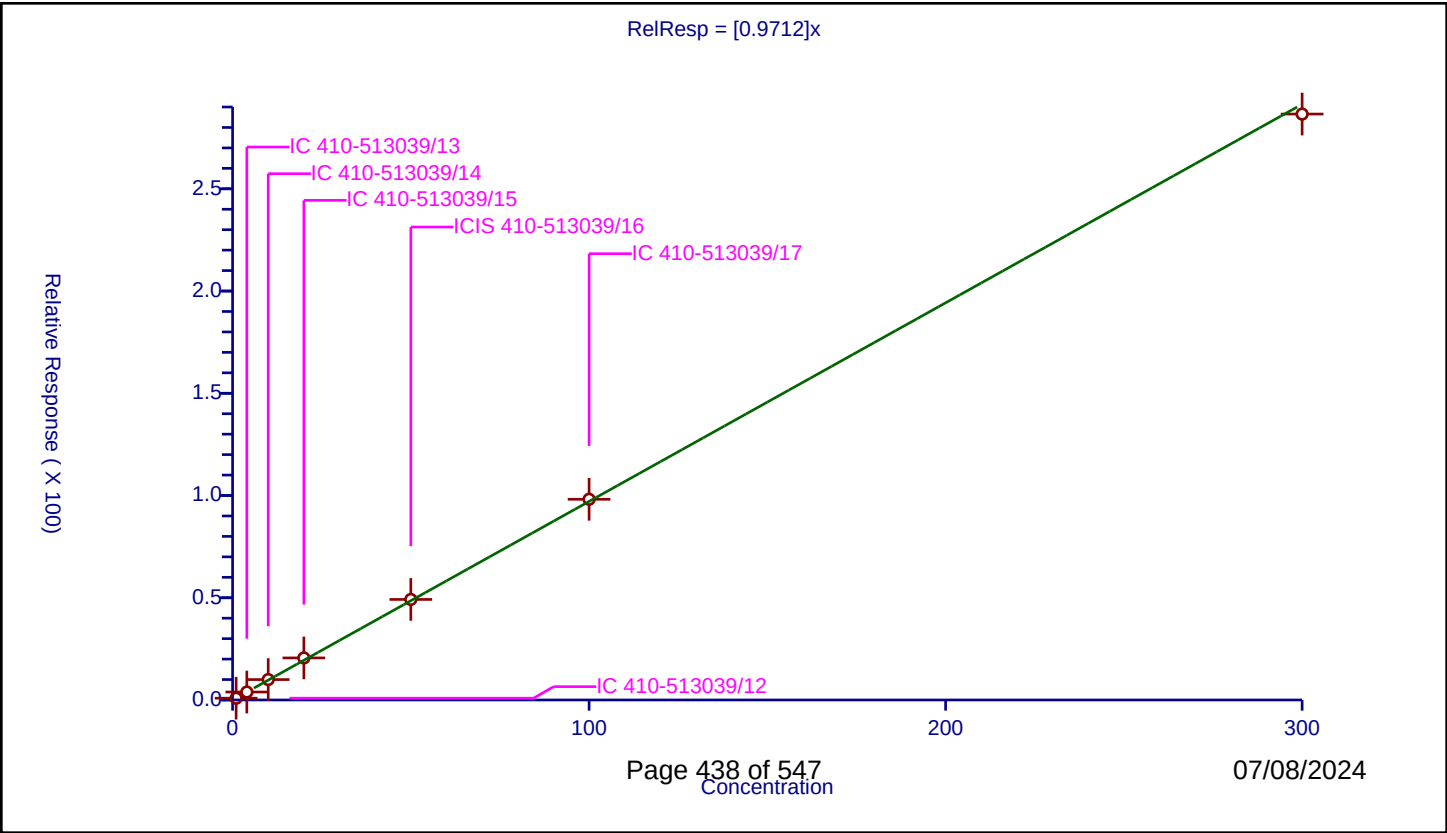
/ Toluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9712
Error Coefficients	

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.877879	50.0	691781.0	0.877879	Y
2	IC 410-513039/13	4.0	3.894575	50.0	715842.0	0.973644	Y
3	IC 410-513039/14	10.0	9.982713	50.0	712657.0	0.998271	Y
4	IC 410-513039/15	20.0	20.569002	50.0	725305.0	1.02845	Y
5	ICIS 410-513039/16	50.0	49.167158	50.0	766952.0	0.983343	Y
6	IC 410-513039/17	100.0	98.158456	50.0	799275.0	0.981585	Y
7	IC 410-513039/18	300.0	286.550441	50.0	886267.0	0.955168	Y



Calibration

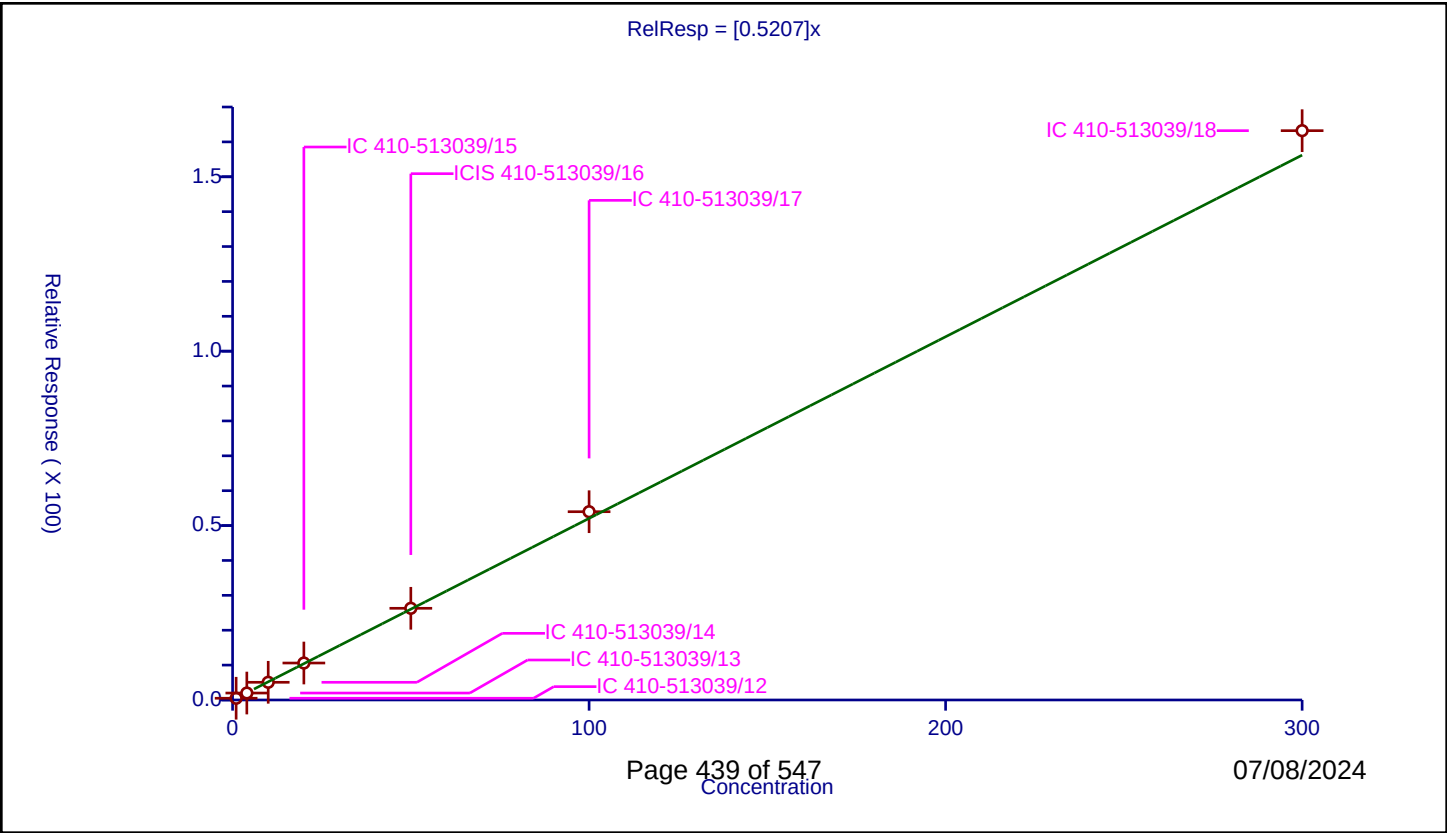
/ trans-1,3-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5207
Error Coefficients	

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.499869	50.0	691781.0	0.499869	Y
2	IC 410-513039/13	4.0	1.992409	50.0	715842.0	0.498102	Y
3	IC 410-513039/14	10.0	5.072777	50.0	712657.0	0.507278	Y
4	IC 410-513039/15	20.0	10.597404	50.0	725305.0	0.52987	Y
5	ICIS 410-513039/16	50.0	26.289976	50.0	766952.0	0.5258	Y
6	IC 410-513039/17	100.0	53.977917	50.0	799275.0	0.539779	Y
7	IC 410-513039/18	300.0	163.222031	50.0	886267.0	0.544073	Y



Calibration

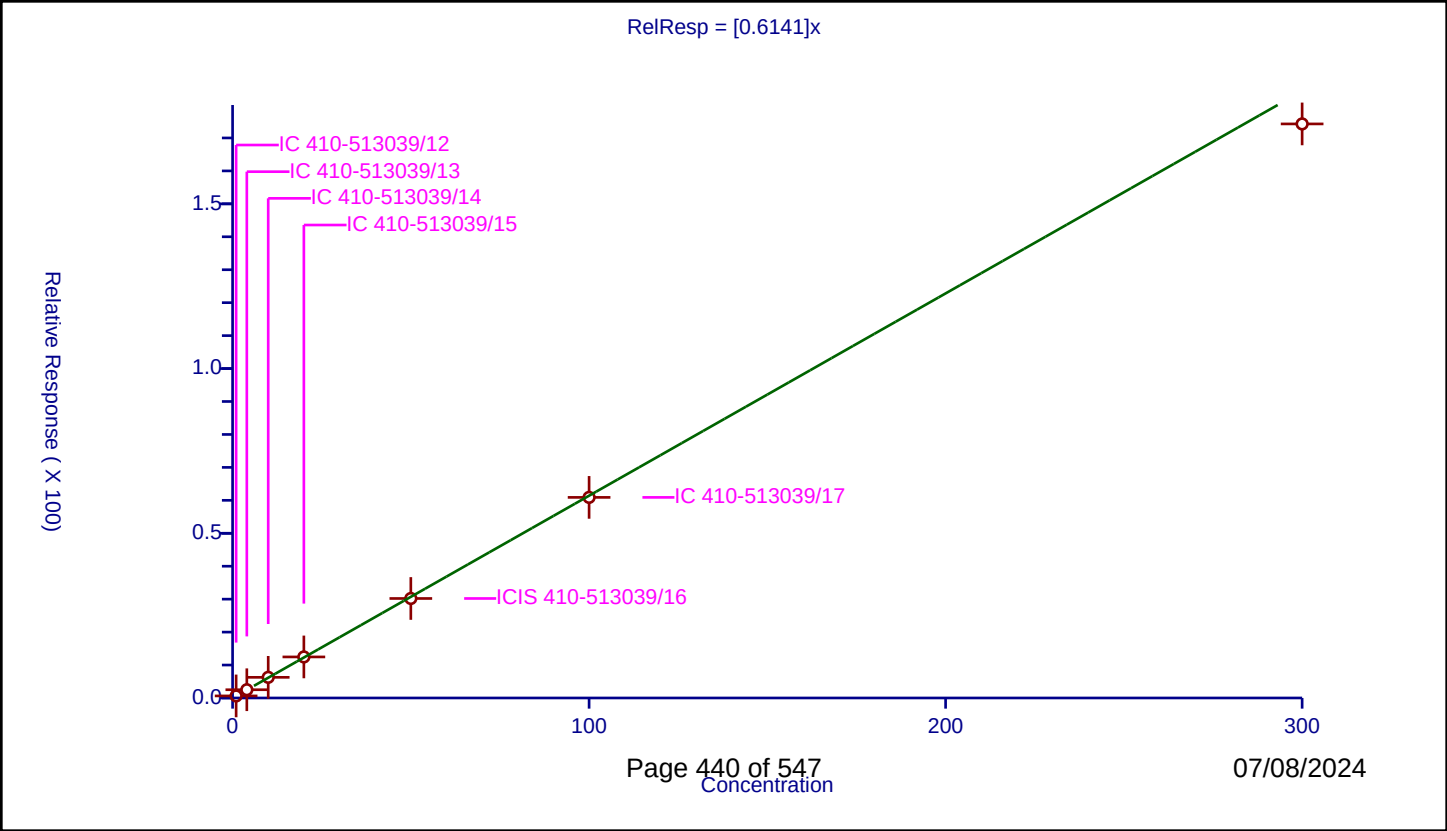
/ Ethyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6141

Error Coefficients	
Relative Standard Deviation:	2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.628595	50.0	691781.0	0.628595	Y
2	IC 410-513039/13	4.0	2.505162	50.0	715842.0	0.62629	Y
3	IC 410-513039/14	10.0	6.265497	50.0	712657.0	0.62655	Y
4	IC 410-513039/15	20.0	12.460689	50.0	725305.0	0.623034	Y
5	ICIS 410-513039/16	50.0	30.20528	50.0	766952.0	0.604106	Y
6	IC 410-513039/17	100.0	60.892496	50.0	799275.0	0.608925	Y
7	IC 410-513039/18	300.0	174.263568	50.0	886267.0	0.580879	Y



Calibration

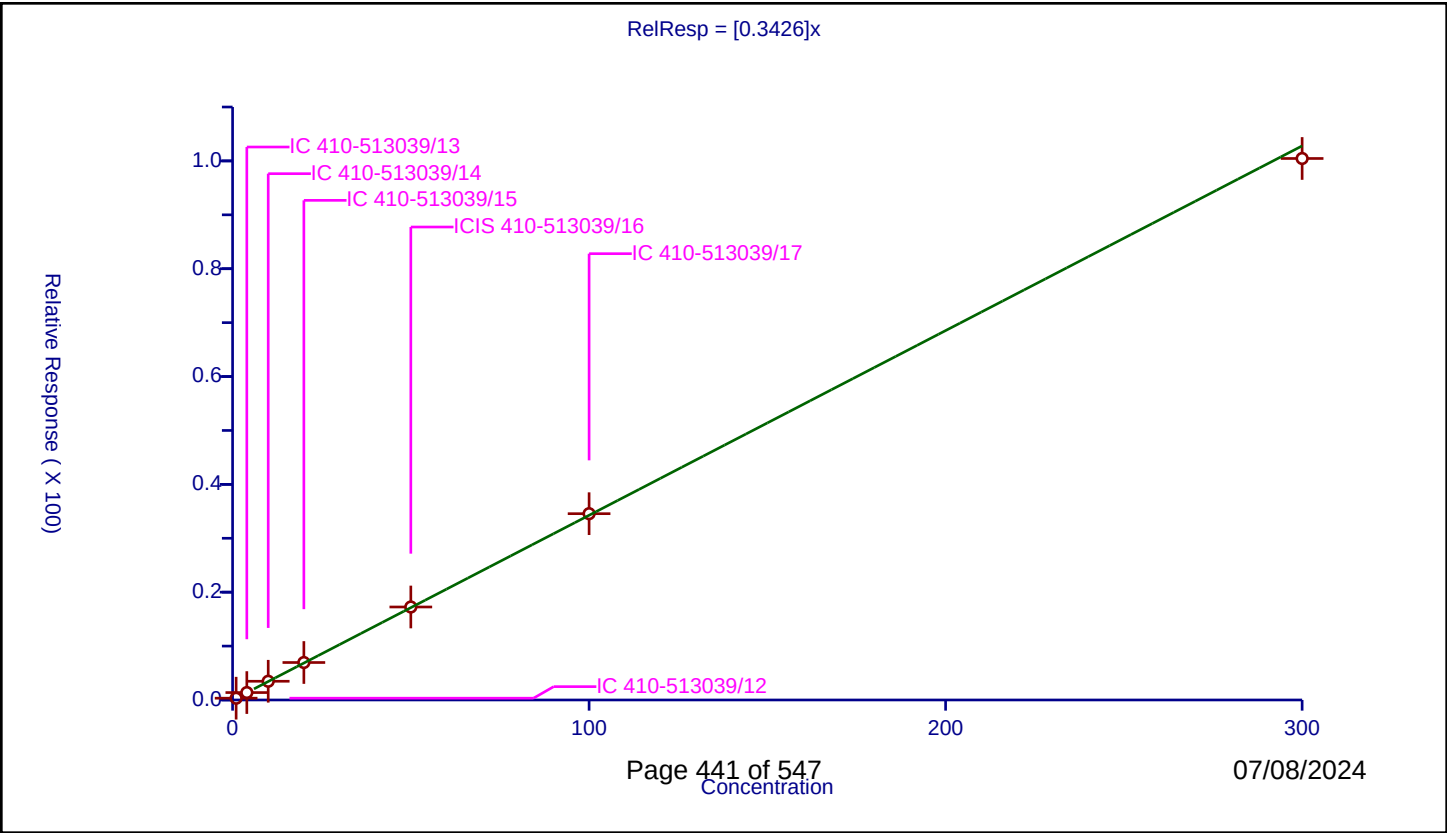
/ 1,1,2-Trichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3426
Error Coefficients	

Relative Standard Deviation: 1.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.333126	50.0	691781.0	0.333126	Y
2	IC 410-513039/13	4.0	1.379564	50.0	715842.0	0.344891	Y
3	IC 410-513039/14	10.0	3.47355	50.0	712657.0	0.347355	Y
4	IC 410-513039/15	20.0	6.950938	50.0	725305.0	0.347547	Y
5	ICIS 410-513039/16	50.0	17.251666	50.0	766952.0	0.345033	Y
6	IC 410-513039/17	100.0	34.562134	50.0	799275.0	0.345621	Y
7	IC 410-513039/18	300.0	100.451106	50.0	886267.0	0.334837	Y



Calibration

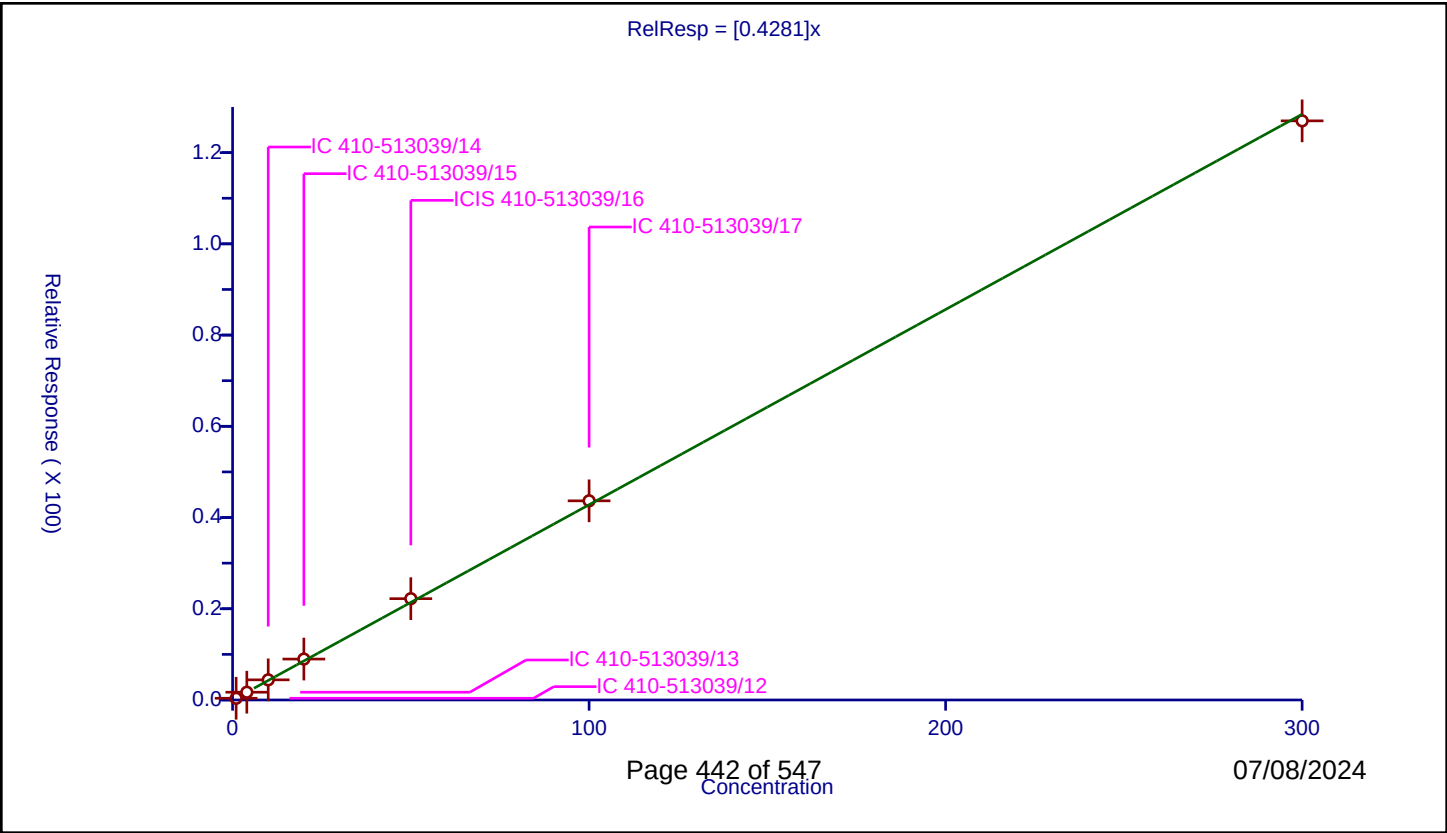
/ Tetrachloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4281
Error Coefficients	

Relative Standard Deviation: 5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.375552	50.0	691781.0	0.375552	Y
2	IC 410-513039/13	4.0	1.706731	50.0	715842.0	0.426683	Y
3	IC 410-513039/14	10.0	4.414817	50.0	712657.0	0.441482	Y
4	IC 410-513039/15	20.0	8.972088	50.0	725305.0	0.448604	Y
5	ICIS 410-513039/16	50.0	22.212929	50.0	766952.0	0.444259	Y
6	IC 410-513039/17	100.0	43.664133	50.0	799275.0	0.436641	Y
7	IC 410-513039/18	300.0	126.966591	50.0	886267.0	0.423222	Y

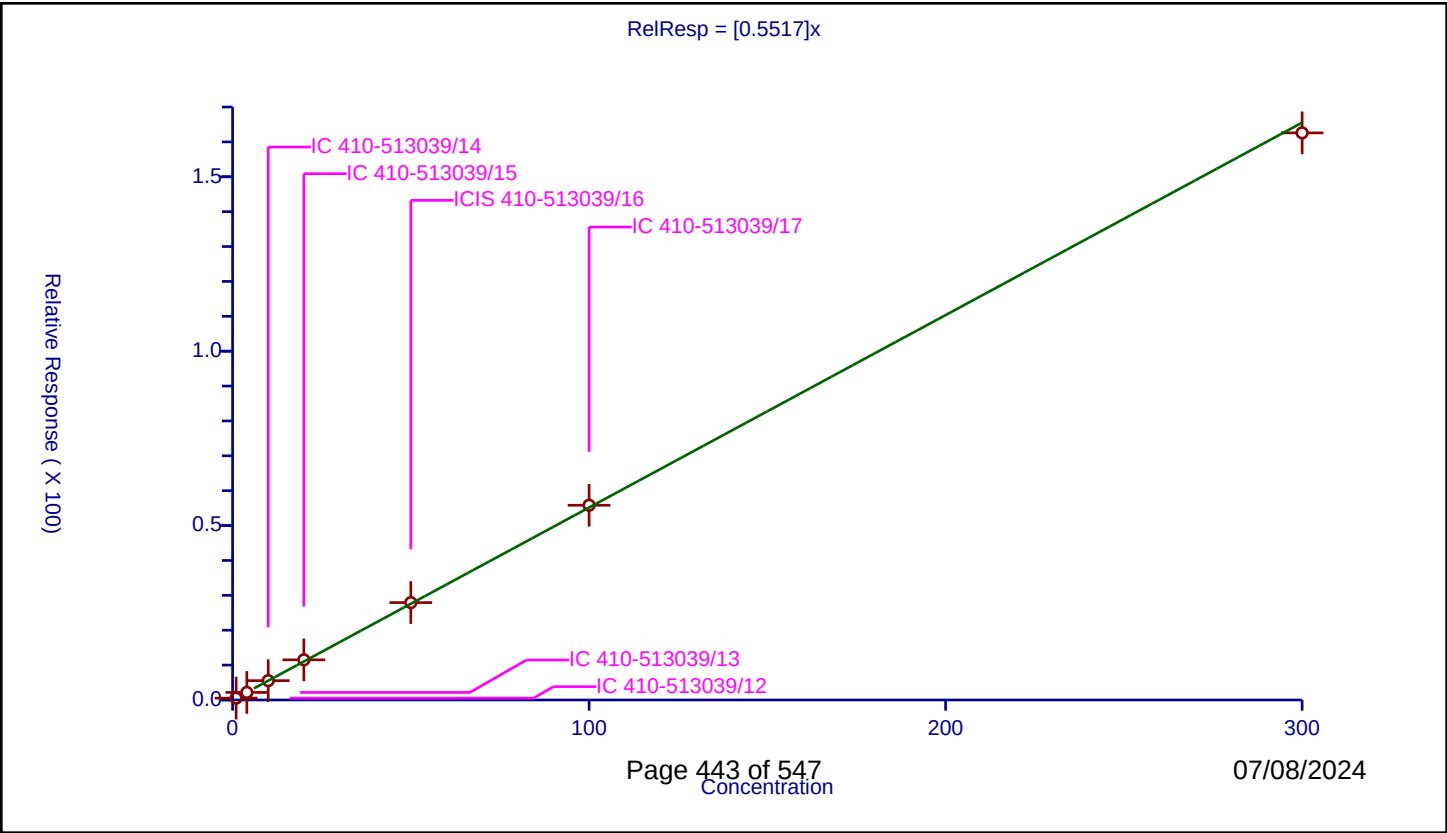


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5517
Error Coefficients	

Relative Standard Deviation: 2.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.532249	50.0	691781.0	0.532249	Y
2	IC 410-513039/13	4.0	2.165981	50.0	715842.0	0.541495	Y
3	IC 410-513039/14	10.0	5.545024	50.0	712657.0	0.554502	Y
4	IC 410-513039/15	20.0	11.506814	50.0	725305.0	0.575341	Y
5	ICIS 410-513039/16	50.0	27.920978	50.0	766952.0	0.55842	Y
6	IC 410-513039/17	100.0	55.827469	50.0	799275.0	0.558275	Y
7	IC 410-513039/18	300.0	162.580802	50.0	886267.0	0.541936	Y

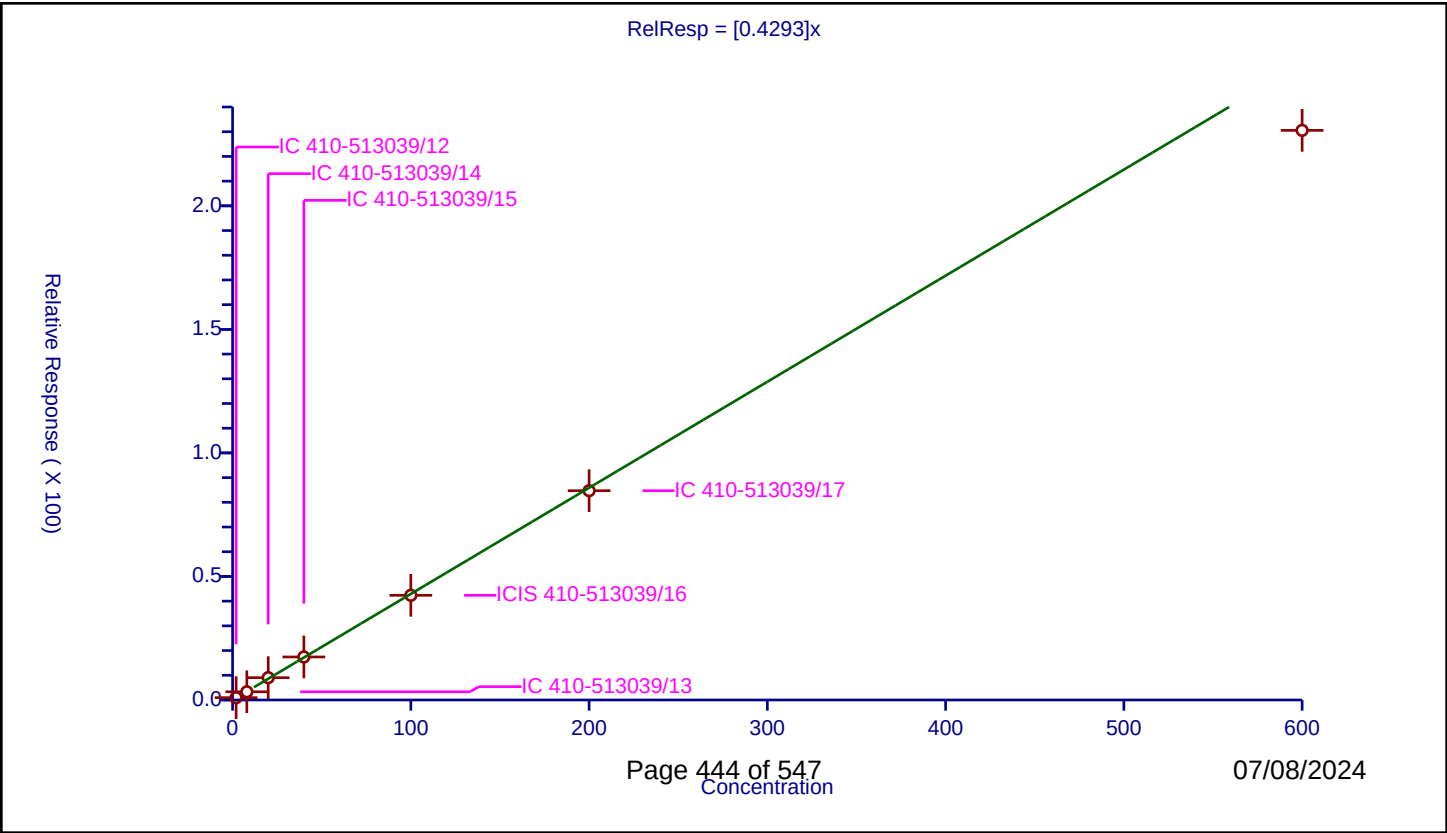


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4293

Error Coefficients	
Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	2.0	0.943651	50.0	691781.0	0.471826	Y
2	IC 410-513039/13	8.0	3.320076	50.0	715842.0	0.41501	Y
3	IC 410-513039/14	20.0	9.031413	50.0	712657.0	0.451571	Y
4	IC 410-513039/15	40.0	17.418259	50.0	725305.0	0.435456	Y
5	ICIS 410-513039/16	100.0	42.366211	50.0	766952.0	0.423662	Y
6	IC 410-513039/17	200.0	84.70639	50.0	799275.0	0.423532	Y
7	IC 410-513039/18	600.0	230.547397	50.0	886267.0	0.384246	Y



Calibration

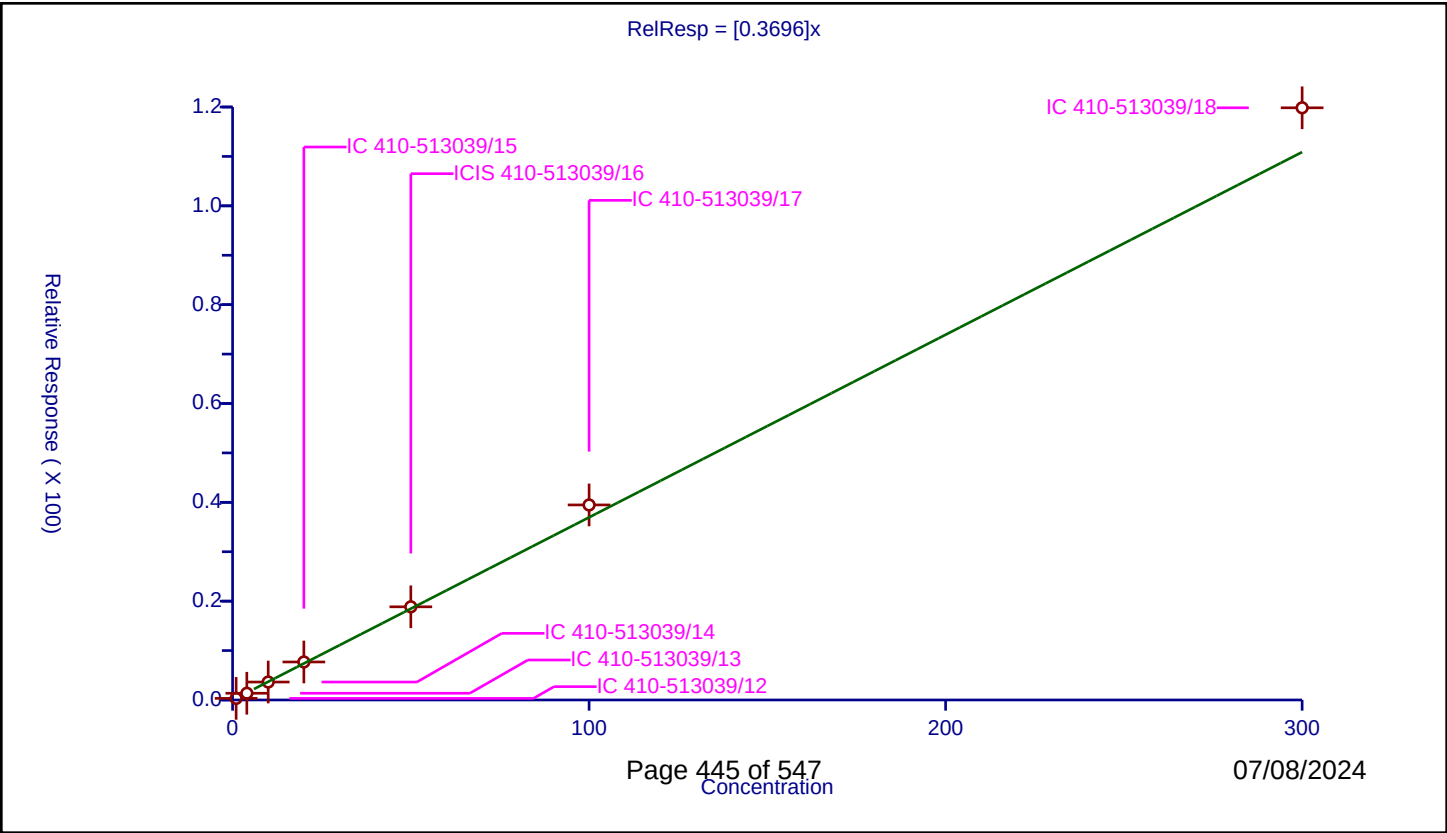
/ Chlorodibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3696
Error Coefficients	

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.327488	50.0	691781.0	0.327488	Y
2	IC 410-513039/13	4.0	1.360915	50.0	715842.0	0.340229	Y
3	IC 410-513039/14	10.0	3.634848	50.0	712657.0	0.363485	Y
4	IC 410-513039/15	20.0	7.692902	50.0	725305.0	0.384645	Y
5	ICIS 410-513039/16	50.0	18.855548	50.0	766952.0	0.377111	Y
6	IC 410-513039/17	100.0	39.470207	50.0	799275.0	0.394702	Y
7	IC 410-513039/18	300.0	119.845882	50.0	886267.0	0.399486	Y



Calibration

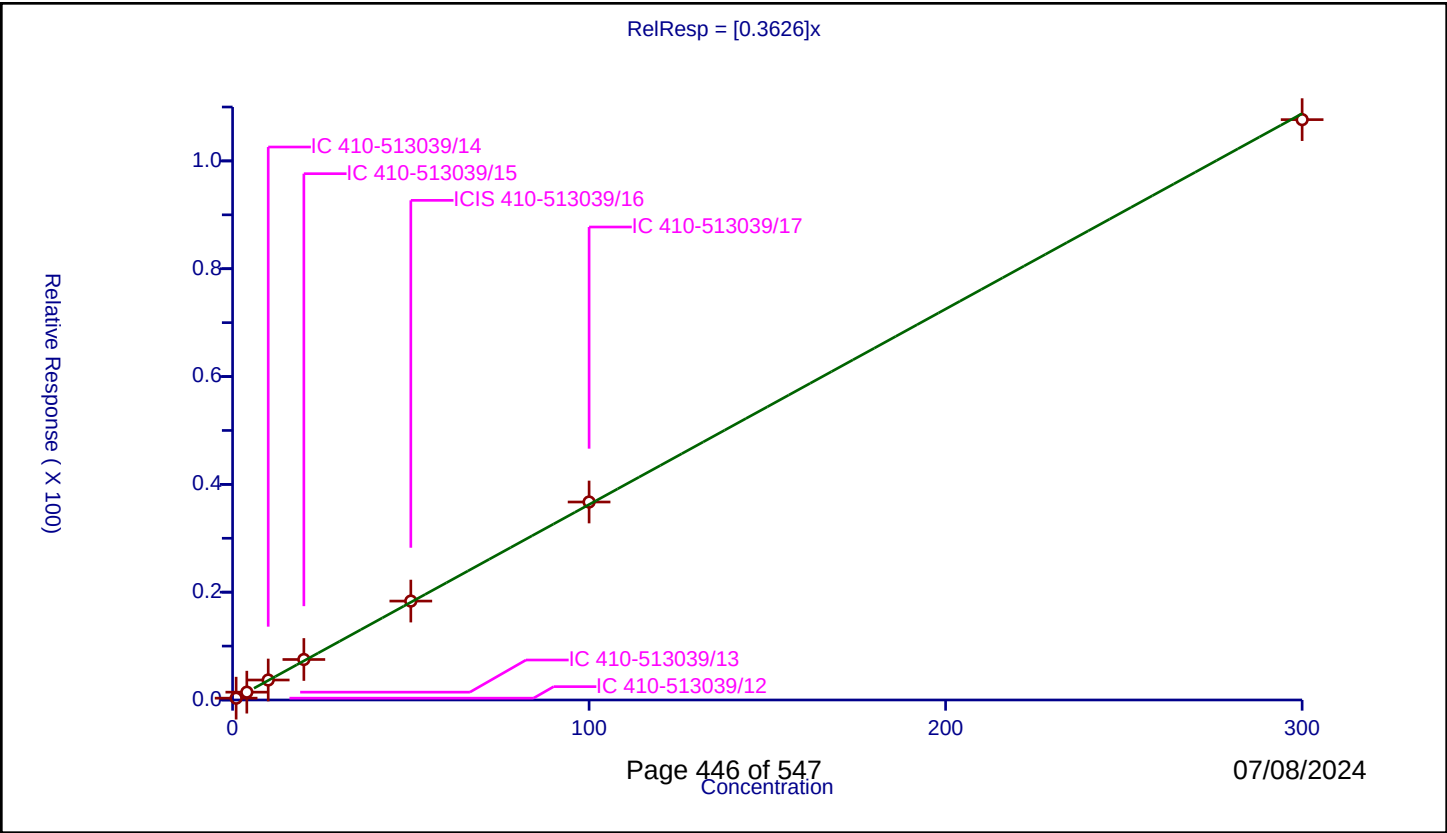
/ Ethylene Dibromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3626
Error Coefficients	

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.336523	50.0	691781.0	0.336523	Y
2	IC 410-513039/13	4.0	1.449412	50.0	715842.0	0.362353	Y
3	IC 410-513039/14	10.0	3.705569	50.0	712657.0	0.370557	Y
4	IC 410-513039/15	20.0	7.512564	50.0	725305.0	0.375628	Y
5	ICIS 410-513039/16	50.0	18.349649	50.0	766952.0	0.366993	Y
6	IC 410-513039/17	100.0	36.729223	50.0	799275.0	0.367292	Y
7	IC 410-513039/18	300.0	107.657681	50.0	886267.0	0.358859	Y



Calibration

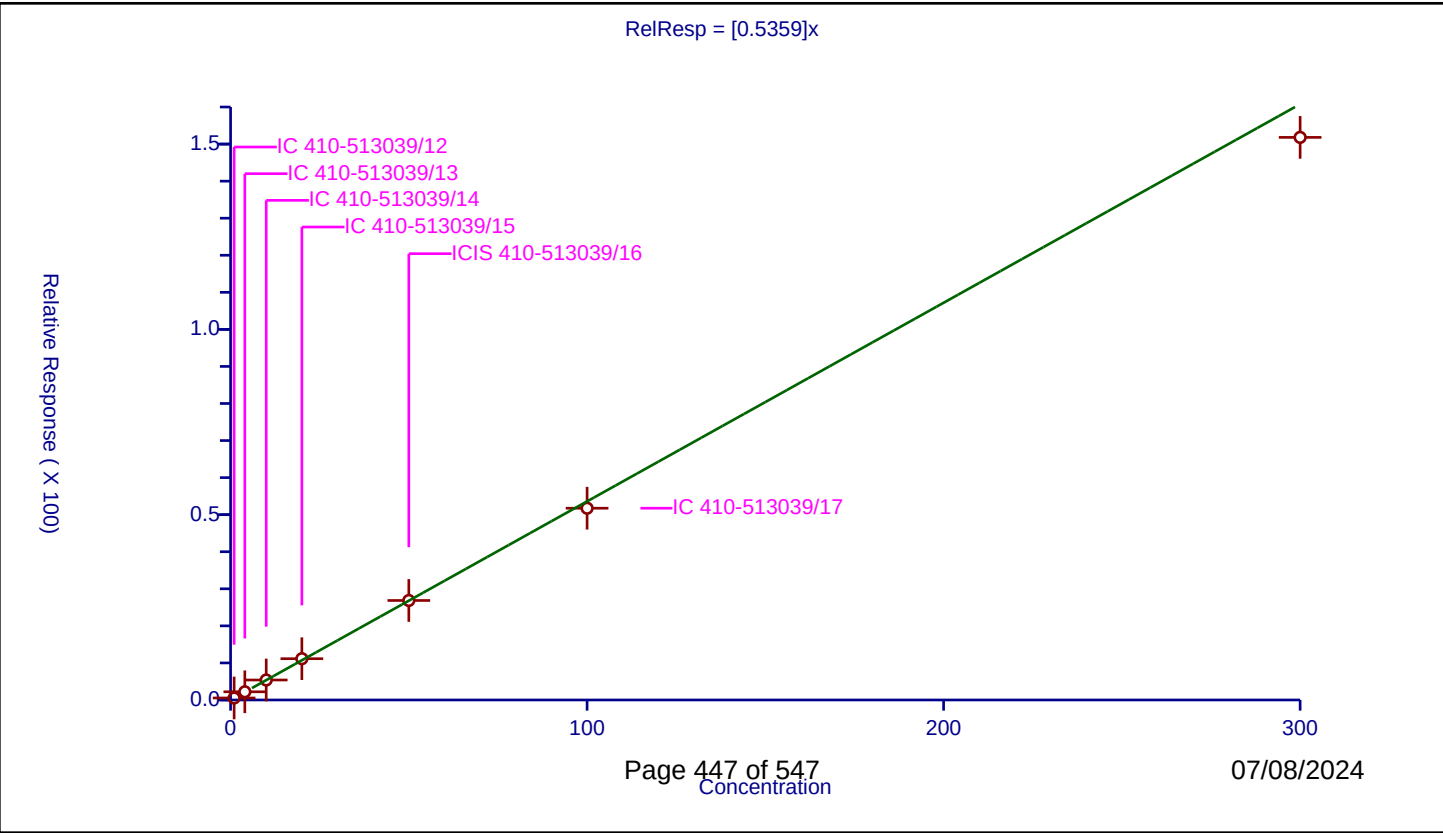
/ 1-Chlorohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5359
Error Coefficients	

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.542079	50.0	691781.0	0.542079	Y
2	IC 410-513039/13	4.0	2.210055	50.0	715842.0	0.552514	Y
3	IC 410-513039/14	10.0	5.392075	50.0	712657.0	0.539208	Y
4	IC 410-513039/15	20.0	11.140348	50.0	725305.0	0.557017	Y
5	ICIS 410-513039/16	50.0	26.848812	50.0	766952.0	0.536976	Y
6	IC 410-513039/17	100.0	51.748272	50.0	799275.0	0.517483	Y
7	IC 410-513039/18	300.0	151.806453	50.0	886267.0	0.506022	Y



Calibration

/ Chlorobenzene

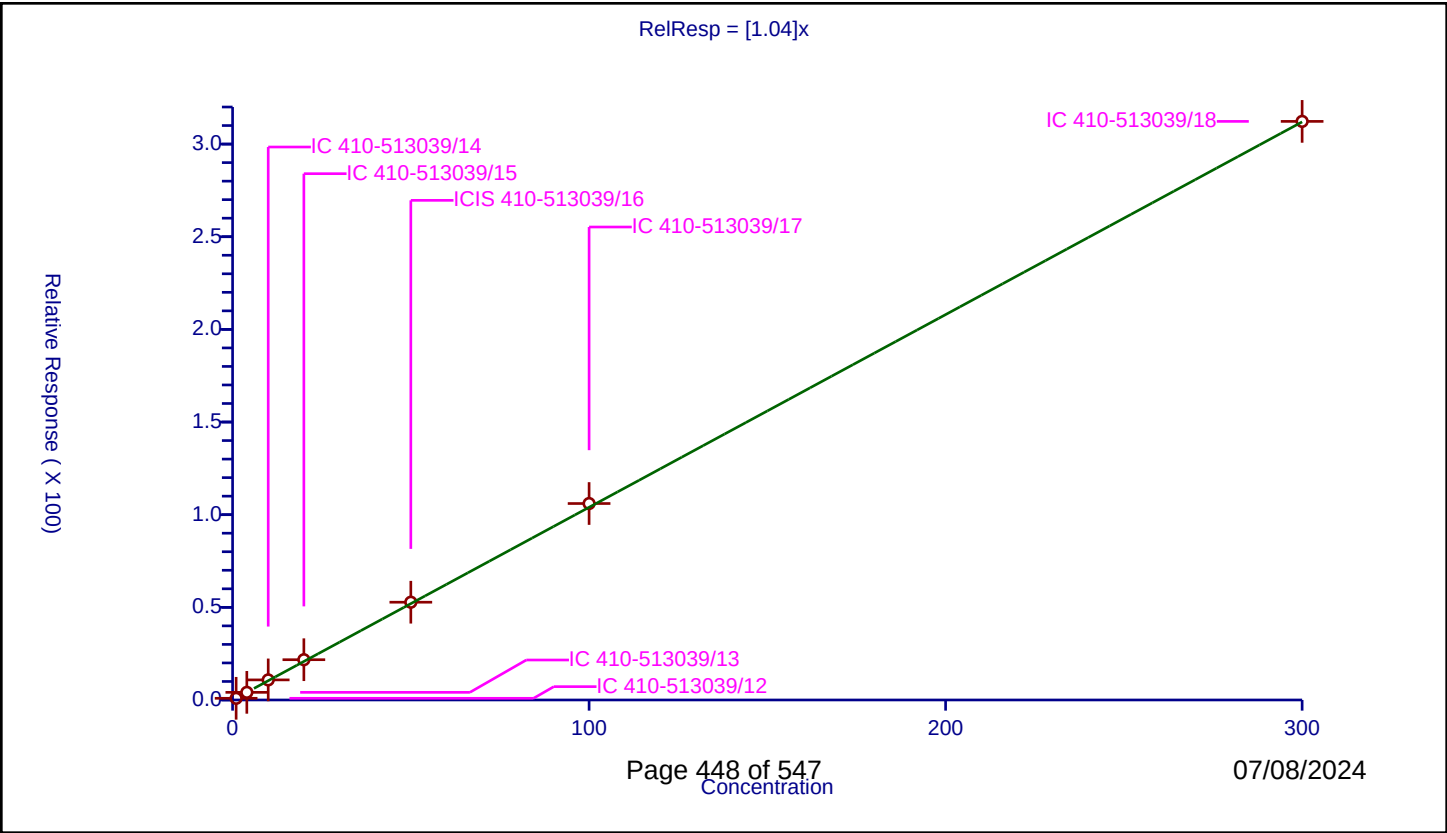
Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.04

Error Coefficients	

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.919872	50.0	691781.0	0.919872	Y
2	IC 410-513039/13	4.0	4.128914	50.0	715842.0	1.032228	Y
3	IC 410-513039/14	10.0	10.842523	50.0	712657.0	1.084252	Y
4	IC 410-513039/15	20.0	21.734236	50.0	725305.0	1.086712	Y
5	ICIS 410-513039/16	50.0	52.763732	50.0	766952.0	1.055275	Y
6	IC 410-513039/17	100.0	106.018329	50.0	799275.0	1.060183	Y
7	IC 410-513039/18	300.0	312.249638	50.0	886267.0	1.040832	Y



Calibration

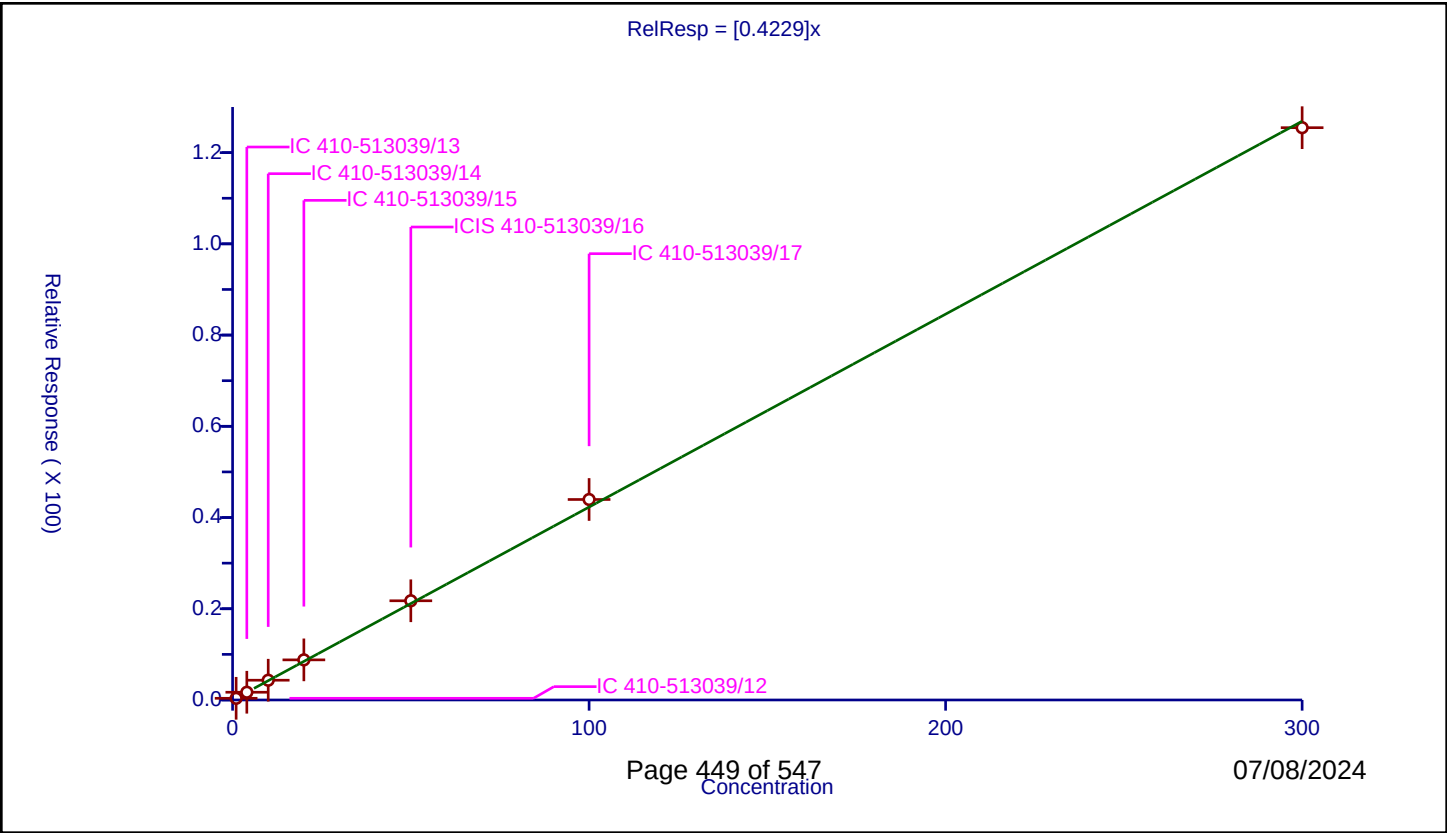
/ 1,1,1,2-Tetrachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4229
Error Coefficients	

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.369626	50.0	691781.0	0.369626	Y
2	IC 410-513039/13	4.0	1.700236	50.0	715842.0	0.425059	Y
3	IC 410-513039/14	10.0	4.332449	50.0	712657.0	0.433245	Y
4	IC 410-513039/15	20.0	8.797334	50.0	725305.0	0.439867	Y
5	ICIS 410-513039/16	50.0	21.753252	50.0	766952.0	0.435065	Y
6	IC 410-513039/17	100.0	43.953958	50.0	799275.0	0.43954	Y
7	IC 410-513039/18	300.0	125.469187	50.0	886267.0	0.418231	Y



Calibration

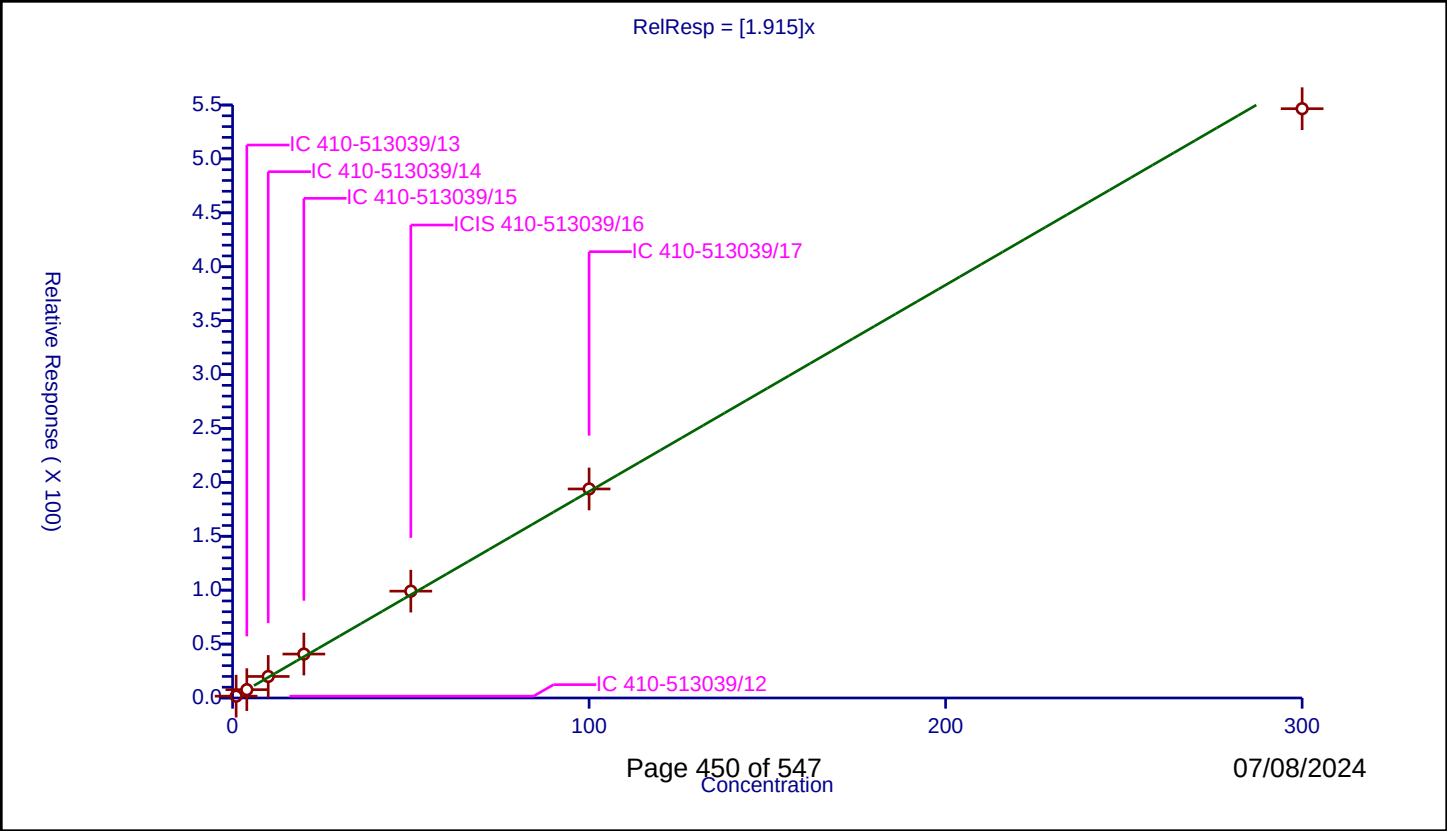
/ Ethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.915
Error Coefficients	

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.69902	50.0	691781.0	1.69902	Y
2	IC 410-513039/13	4.0	7.727124	50.0	715842.0	1.931781	Y
3	IC 410-513039/14	10.0	19.970617	50.0	712657.0	1.997062	Y
4	IC 410-513039/15	20.0	40.737138	50.0	725305.0	2.036857	Y
5	ICIS 410-513039/16	50.0	99.106333	50.0	766952.0	1.982127	Y
6	IC 410-513039/17	100.0	193.88108	50.0	799275.0	1.938811	Y
7	IC 410-513039/18	300.0	546.587428	50.0	886267.0	1.821958	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

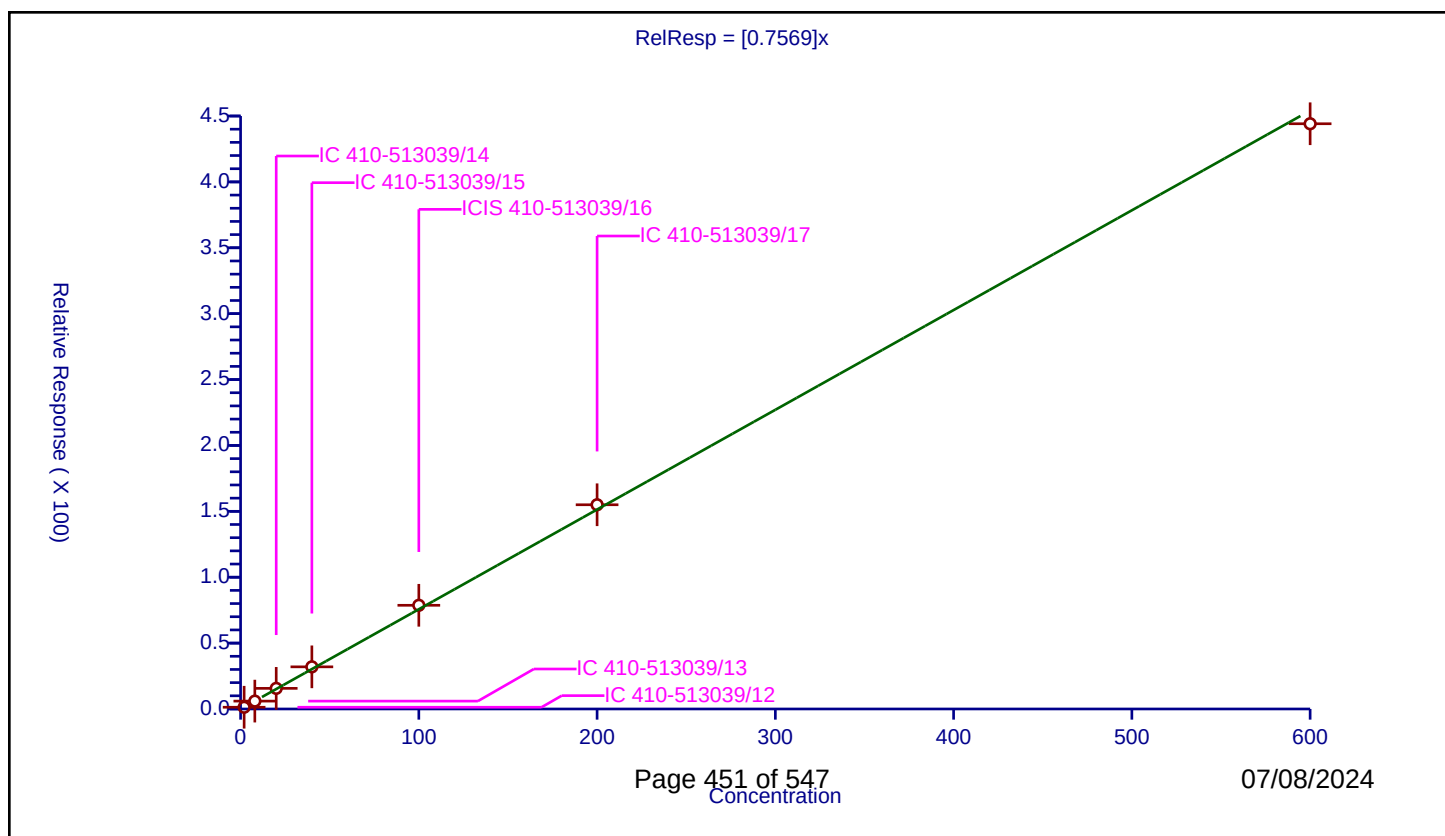
Curve Coefficients

Intercept: 0
Slope: 0.7569

Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	2.0	1.33178	50.0	691781.0	0.66589	Y
2	IC 410-513039/13	8.0	5.983164	50.0	715842.0	0.747895	Y
3	IC 410-513039/14	20.0	15.649113	50.0	712657.0	0.782456	Y
4	IC 410-513039/15	40.0	31.98675	50.0	725305.0	0.799669	Y
5	ICIS 410-513039/16	100.0	78.694234	50.0	766952.0	0.786942	Y
6	IC 410-513039/17	200.0	154.980076	50.0	799275.0	0.7749	Y
7	IC 410-513039/18	600.0	444.122144	50.0	886267.0	0.740204	Y



Calibration

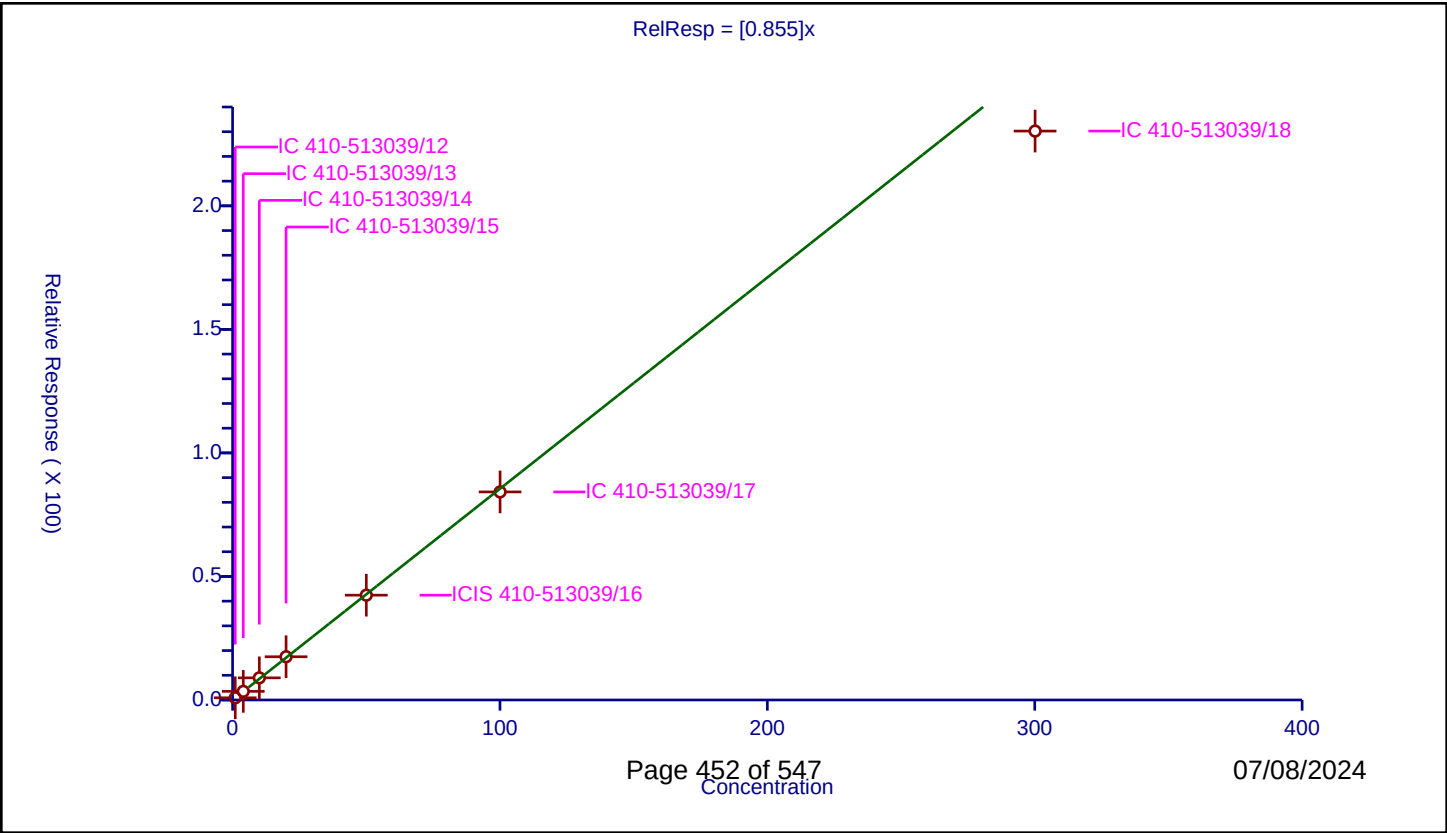
/ n-Butyl acrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.855

Error Coefficients	
Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.000464	0.885324	50.0	691781.0	0.884913	Y
2	IC 410-513039/13	4.001854	3.493578	50.0	715842.0	0.87299	Y
3	IC 410-513039/14	10.004636	8.960482	50.0	712657.0	0.895633	Y
4	IC 410-513039/15	20.009272	17.496846	50.0	725305.0	0.874437	Y
5	ICIS 410-513039/16	50.02318	42.419995	50.0	766952.0	0.848007	Y
6	IC 410-513039/17	100.04636	84.217572	50.0	799275.0	0.841785	Y
7	IC 410-513039/18	300.13908	230.265315	50.0	886267.0	0.767195	Y

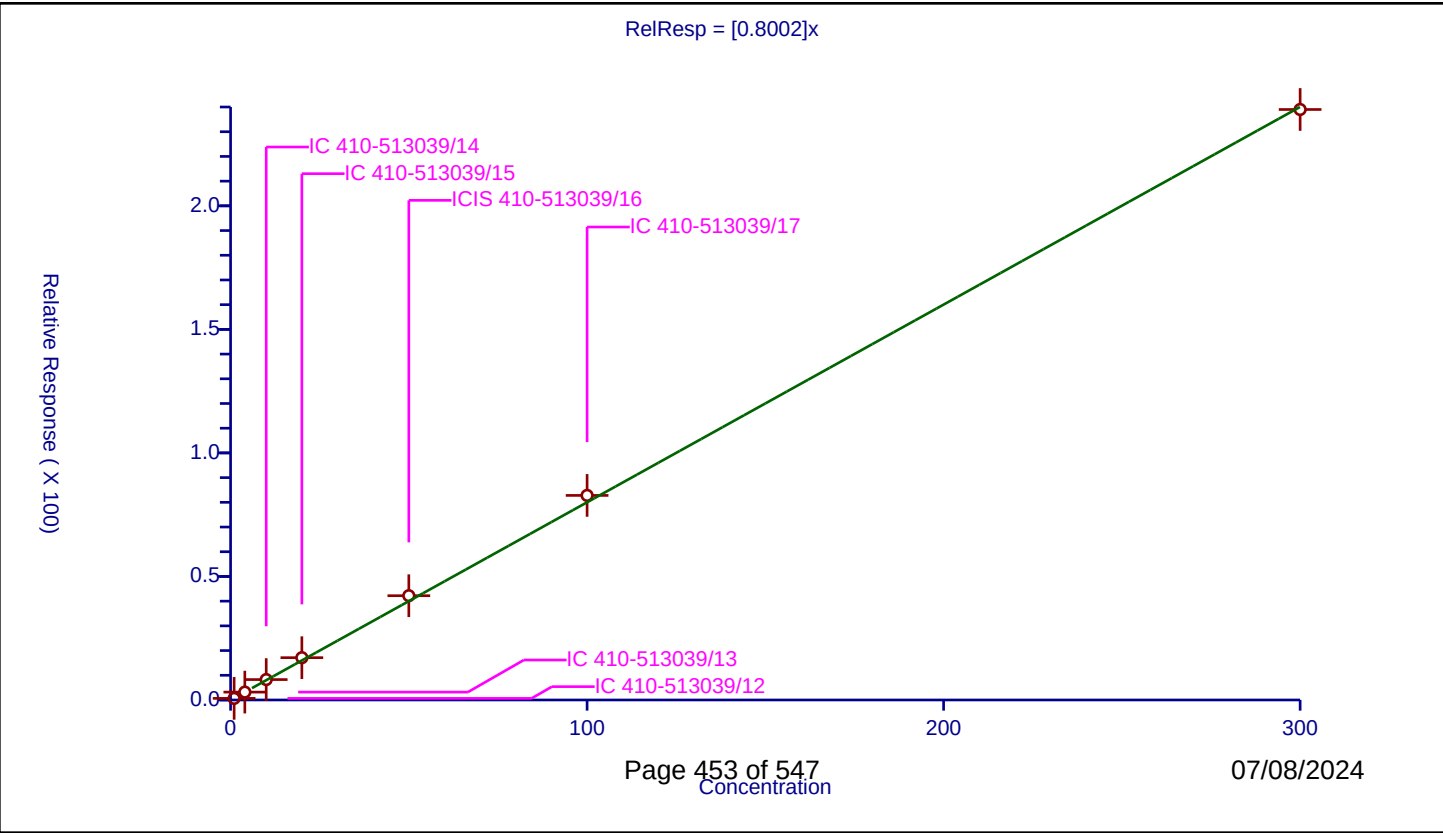


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8002
Error Coefficients	

Relative Standard Deviation: 8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.652302	50.0	691781.0	0.652302	Y
2	IC 410-513039/13	4.0	3.190369	50.0	715842.0	0.797592	Y
3	IC 410-513039/14	10.0	8.26225	50.0	712657.0	0.826225	Y
4	IC 410-513039/15	20.0	17.123969	50.0	725305.0	0.856198	Y
5	ICIS 410-513039/16	50.0	42.206031	50.0	766952.0	0.844121	Y
6	IC 410-513039/17	100.0	82.799037	50.0	799275.0	0.82799	Y
7	IC 410-513039/18	300.0	238.996826	50.0	886267.0	0.796656	Y



Calibration

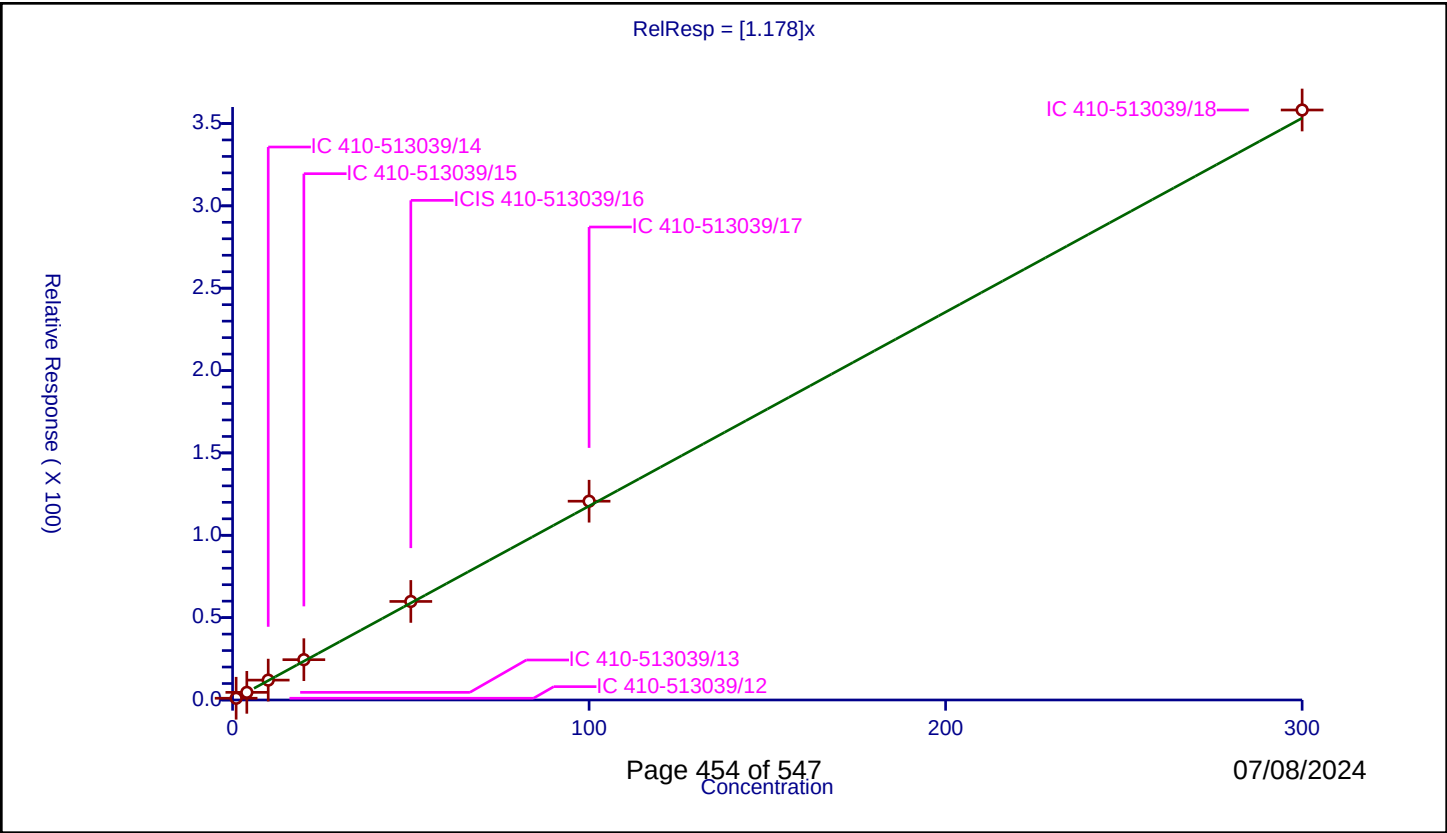
/ Styrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.178

Error Coefficients	
Relative Standard Deviation:	
	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.057126	50.0	691781.0	1.057126	Y
2	IC 410-513039/13	4.0	4.633145	50.0	715842.0	1.158286	Y
3	IC 410-513039/14	10.0	12.062325	50.0	712657.0	1.206232	Y
4	IC 410-513039/15	20.0	24.475634	50.0	725305.0	1.223782	Y
5	ICIS 410-513039/16	50.0	59.820888	50.0	766952.0	1.196418	Y
6	IC 410-513039/17	100.0	120.688999	50.0	799275.0	1.20689	Y
7	IC 410-513039/18	300.0	358.185513	50.0	886267.0	1.193952	Y



Calibration

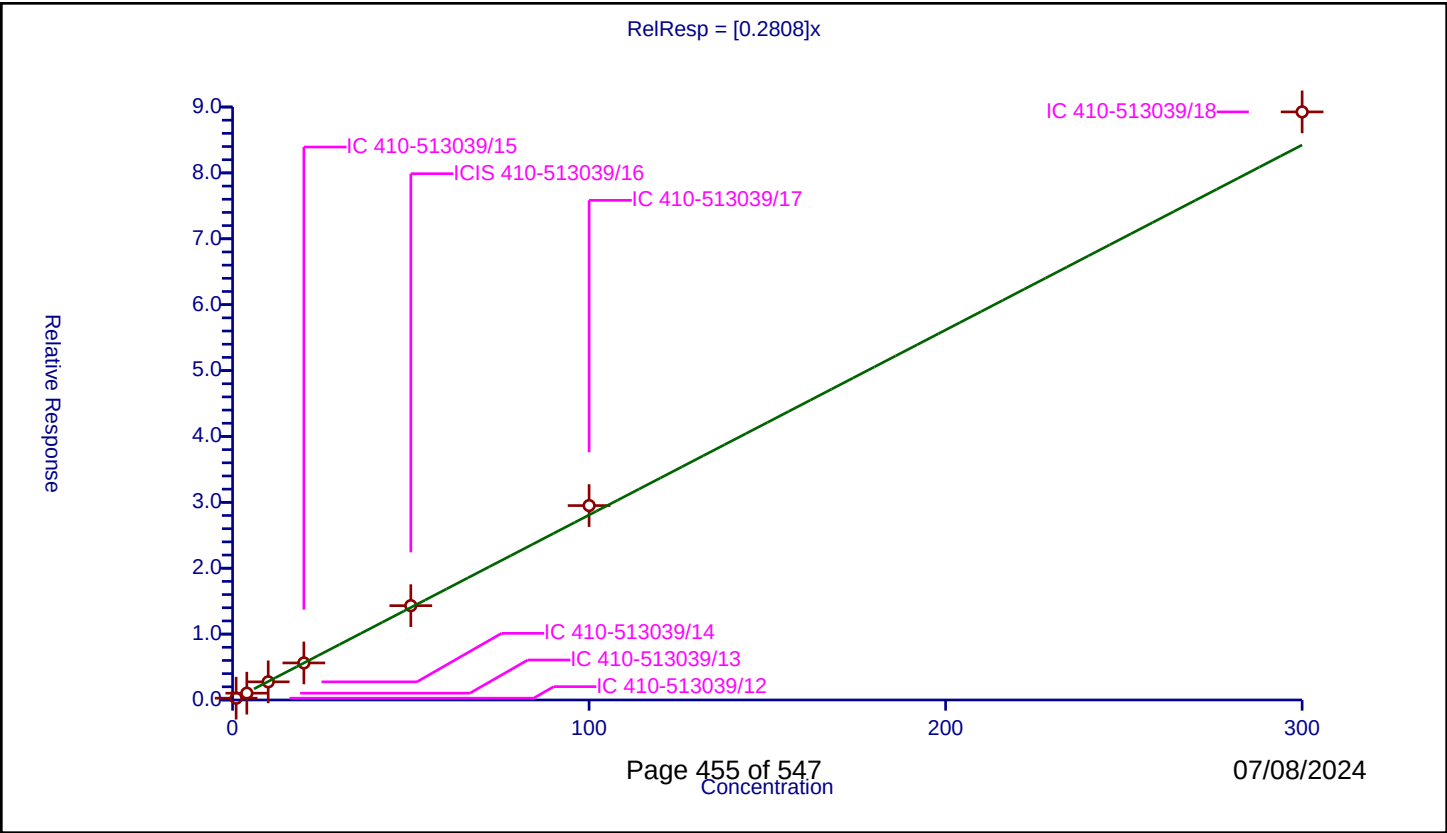
/ Bromoform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2808

Error Coefficients	
Relative Standard Deviation:	
	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.271184	50.0	691781.0	0.271184	Y
2	IC 410-513039/13	4.0	1.035354	50.0	715842.0	0.258839	Y
3	IC 410-513039/14	10.0	2.755323	50.0	712657.0	0.275532	Y
4	IC 410-513039/15	20.0	5.622255	50.0	725305.0	0.281113	Y
5	ICIS 410-513039/16	50.0	14.318106	50.0	766952.0	0.286362	Y
6	IC 410-513039/17	100.0	29.508492	50.0	799275.0	0.295085	Y
7	IC 410-513039/18	300.0	89.257639	50.0	886267.0	0.297525	Y



Calibration

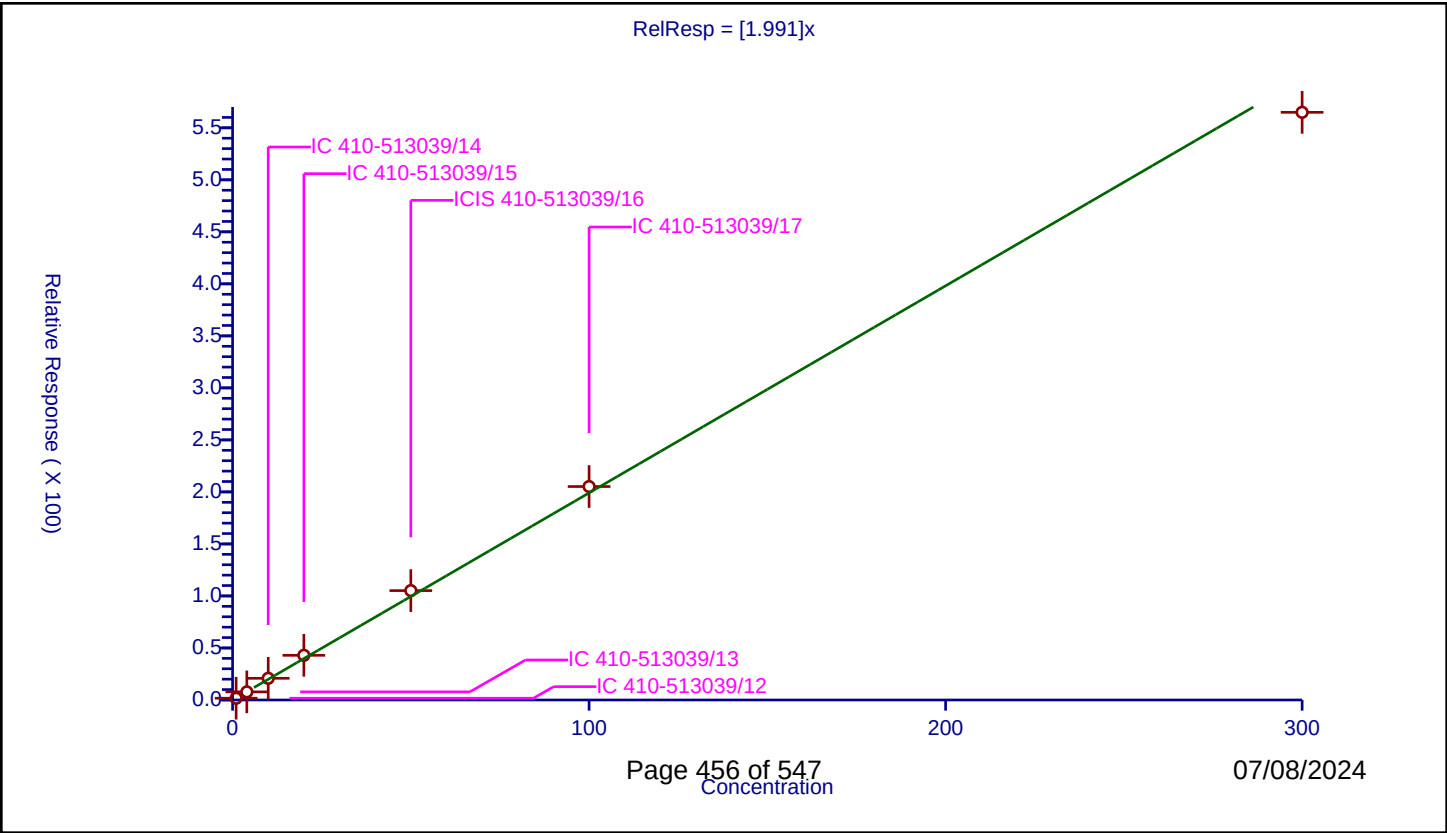
/ Isopropylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.991
Error Coefficients	

Relative Standard Deviation: 7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.715861	50.0	691781.0	1.715861	Y
2	IC 410-513039/13	4.0	7.796064	50.0	715842.0	1.949016	Y
3	IC 410-513039/14	10.0	20.856106	50.0	712657.0	2.085611	Y
4	IC 410-513039/15	20.0	42.938764	50.0	725305.0	2.146938	Y
5	ICIS 410-513039/16	50.0	105.133502	50.0	766952.0	2.10267	Y
6	IC 410-513039/17	100.0	205.176691	50.0	799275.0	2.051767	Y
7	IC 410-513039/18	300.0	564.890039	50.0	886267.0	1.882967	Y

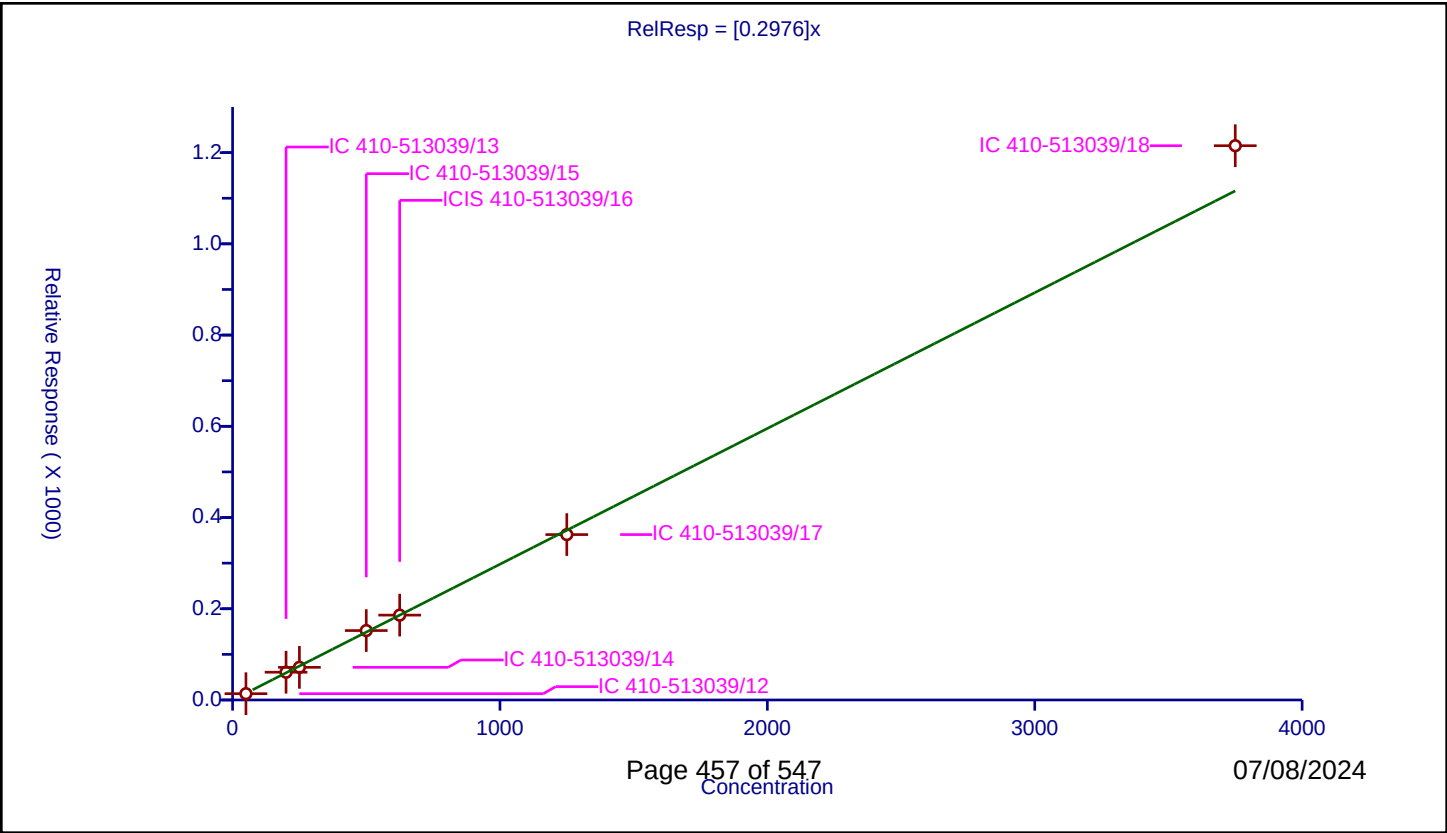


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2976
Error Coefficients	

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	49.998492	13.830476	250.0	325748.0	0.276618	Y
2	IC 410-513039/13	199.993968	60.874025	250.0	276411.0	0.304379	Y
3	IC 410-513039/14	249.99246	71.575732	250.0	356996.0	0.286312	Y
4	IC 410-513039/15	499.98492	152.178566	250.0	275640.0	0.304366	Y
5	ICIS 410-513039/16	624.98115	186.039129	250.0	293746.0	0.297672	Y
6	IC 410-513039/17	1249.9623	362.606721	250.0	305821.0	0.290094	Y
7	IC 410-513039/18	3749.8869	1215.170729	250.0	324813.0	0.324055	Y



Calibration

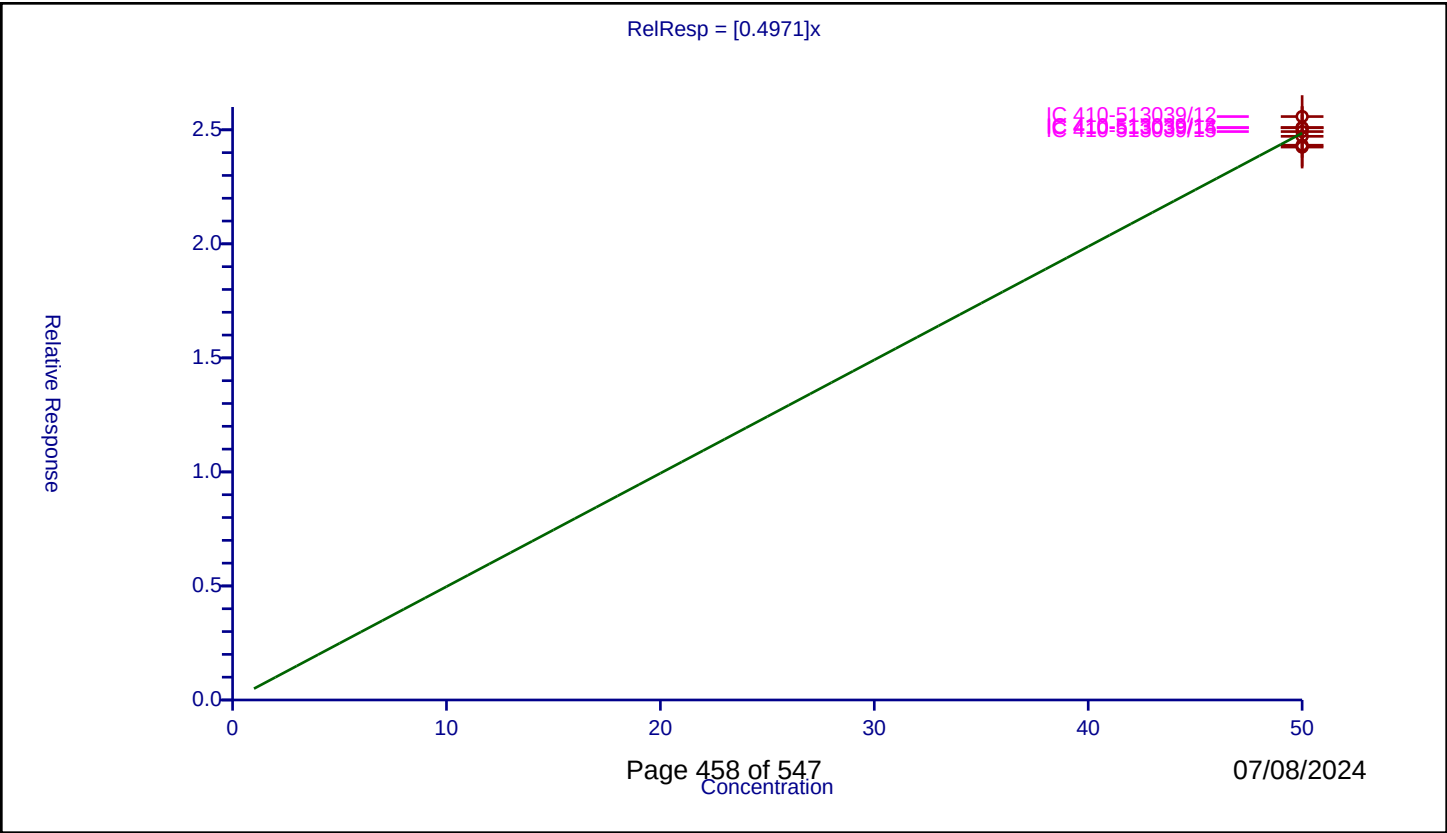
/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4971
Error Coefficients	

Relative Standard Deviation: 1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	50.0	25.58194	50.0	691781.0	0.511639	Y
2	IC 410-513039/13	50.0	25.099463	50.0	715842.0	0.501989	Y
3	IC 410-513039/14	50.0	25.08977	50.0	712657.0	0.501795	Y
4	IC 410-513039/15	50.0	24.923515	50.0	725305.0	0.49847	Y
5	ICIS 410-513039/16	50.0	24.71478	50.0	766952.0	0.494296	Y
6	IC 410-513039/17	50.0	24.324482	50.0	799275.0	0.48649	Y
7	IC 410-513039/18	50.0	24.243766	50.0	886267.0	0.484875	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

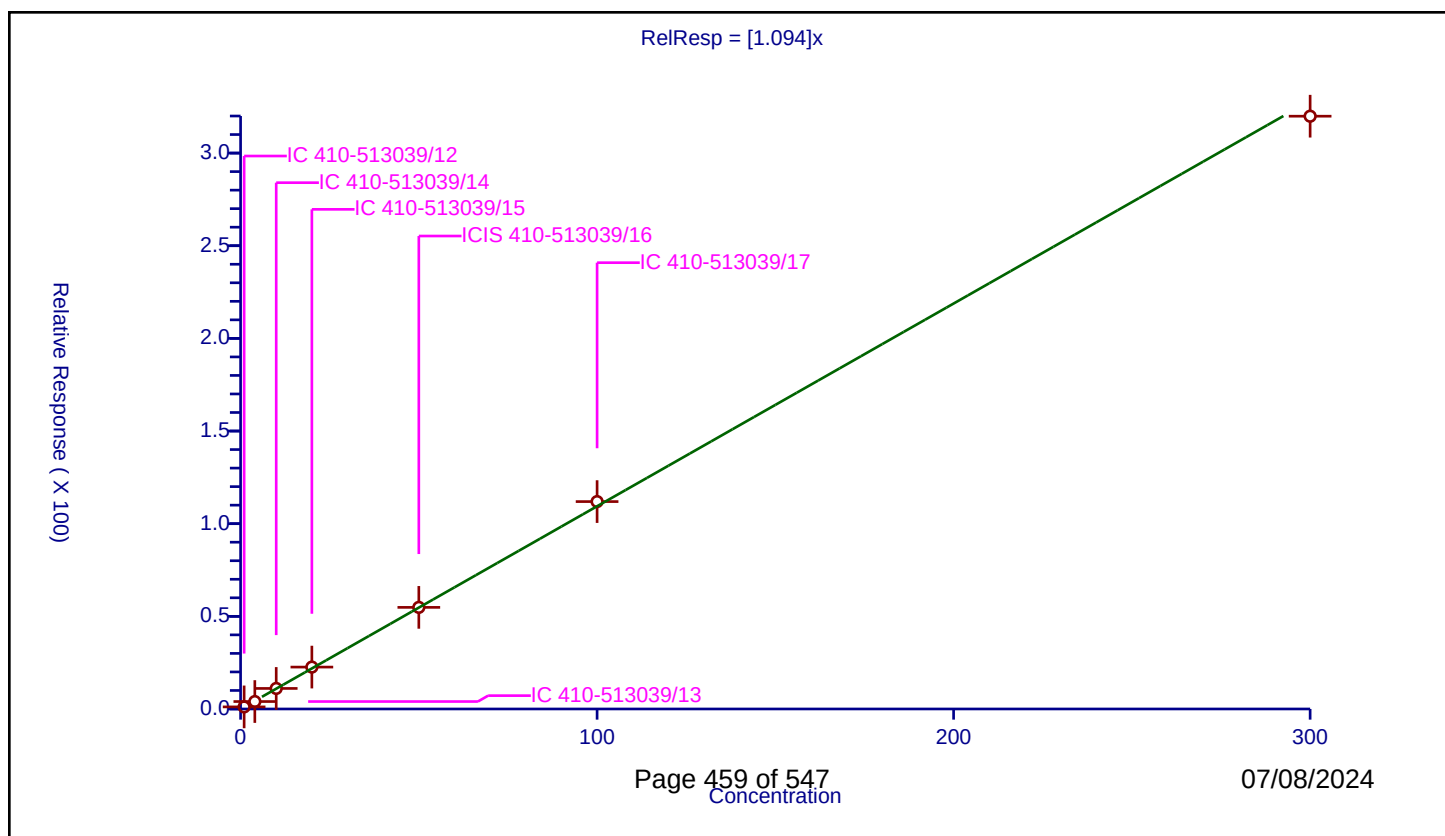
Curve Coefficients

Intercept: 0
Slope: 1.094

Error Coefficients

Relative Standard Deviation: 4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.131683	50.0	434044.0	1.131683	Y
2	IC 410-513039/13	4.0	4.018703	50.0	448055.0	1.004676	Y
3	IC 410-513039/14	10.0	11.088048	50.0	440100.0	1.108805	Y
4	IC 410-513039/15	20.0	22.611834	50.0	438014.0	1.130592	Y
5	ICIS 410-513039/16	50.0	54.838607	50.0	455968.0	1.096772	Y
6	IC 410-513039/17	100.0	111.929116	50.0	459682.0	1.119291	Y
7	IC 410-513039/18	300.0	319.900293	50.0	498460.0	1.066334	Y



Calibration

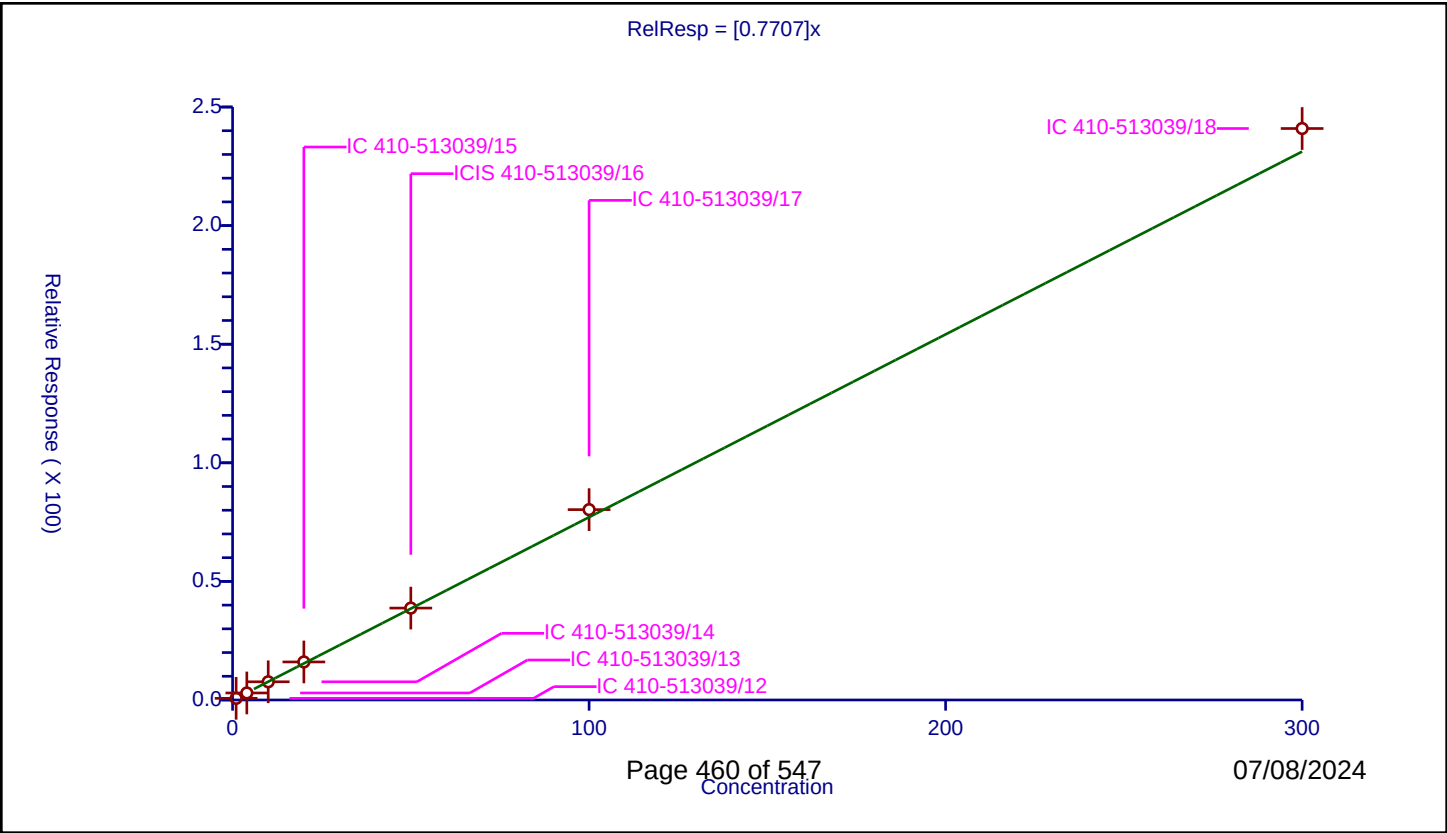
/ Bromobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7707
Error Coefficients	

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.703385	50.0	434044.0	0.703385	Y
2	IC 410-513039/13	4.0	2.967939	50.0	448055.0	0.741985	Y
3	IC 410-513039/14	10.0	7.667576	50.0	440100.0	0.766758	Y
4	IC 410-513039/15	20.0	16.040583	50.0	438014.0	0.802029	Y
5	ICIS 410-513039/16	50.0	38.749978	50.0	455968.0	0.775	Y
6	IC 410-513039/17	100.0	80.252653	50.0	459682.0	0.802527	Y
7	IC 410-513039/18	300.0	240.935883	50.0	498460.0	0.80312	Y



Calibration

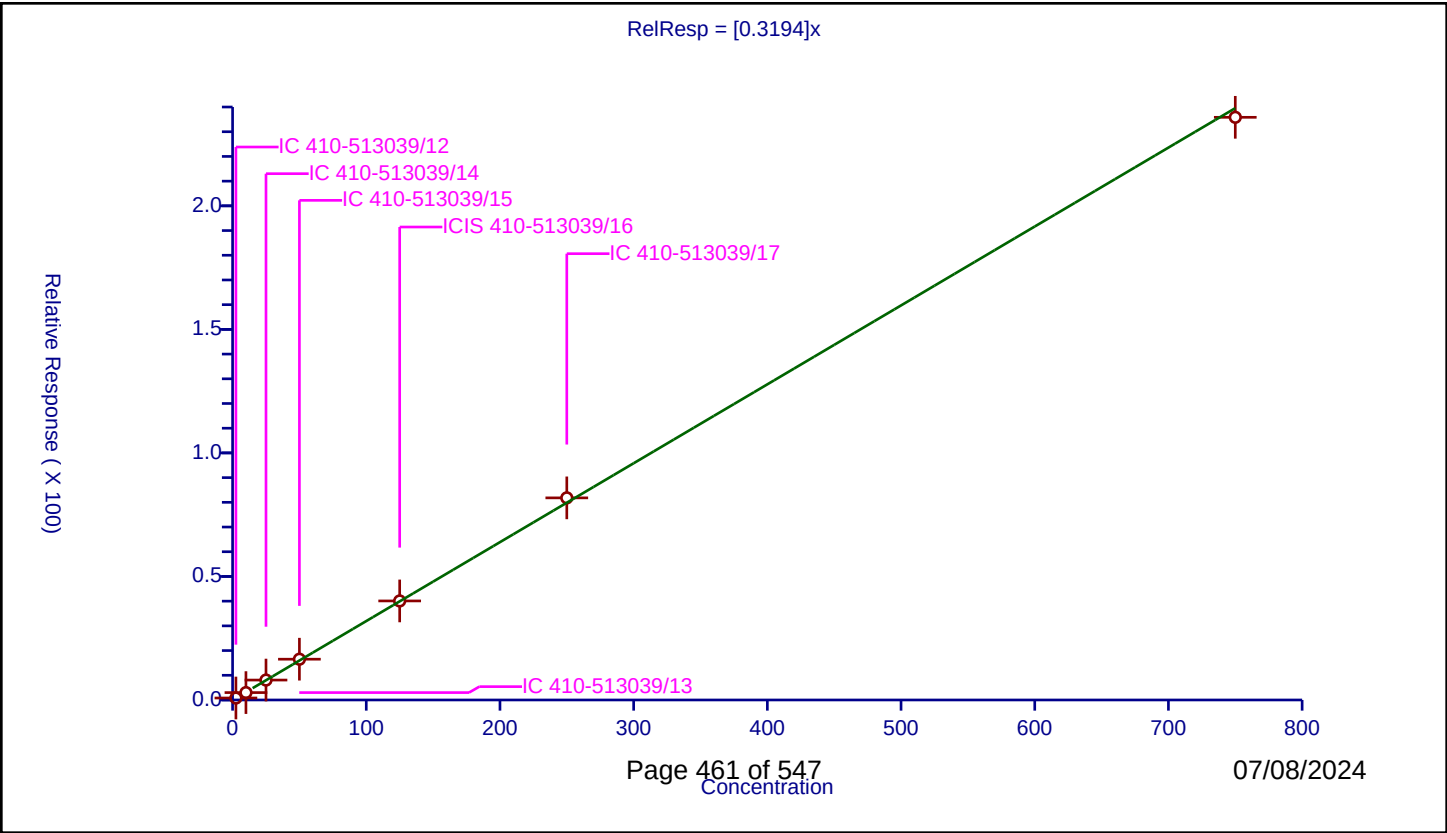
/ trans-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3194
Error Coefficients	

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	2.5	0.802568	50.0	434044.0	0.321027	Y
2	IC 410-513039/13	10.0	2.995503	50.0	448055.0	0.29955	Y
3	IC 410-513039/14	25.0	8.064985	50.0	440100.0	0.322599	Y
4	IC 410-513039/15	50.0	16.505523	50.0	438014.0	0.33011	Y
5	ICIS 410-513039/16	125.0	40.0913	50.0	455968.0	0.32073	Y
6	IC 410-513039/17	250.0	81.809381	50.0	459682.0	0.327238	Y
7	IC 410-513039/18	750.0	235.835273	50.0	498460.0	0.314447	Y

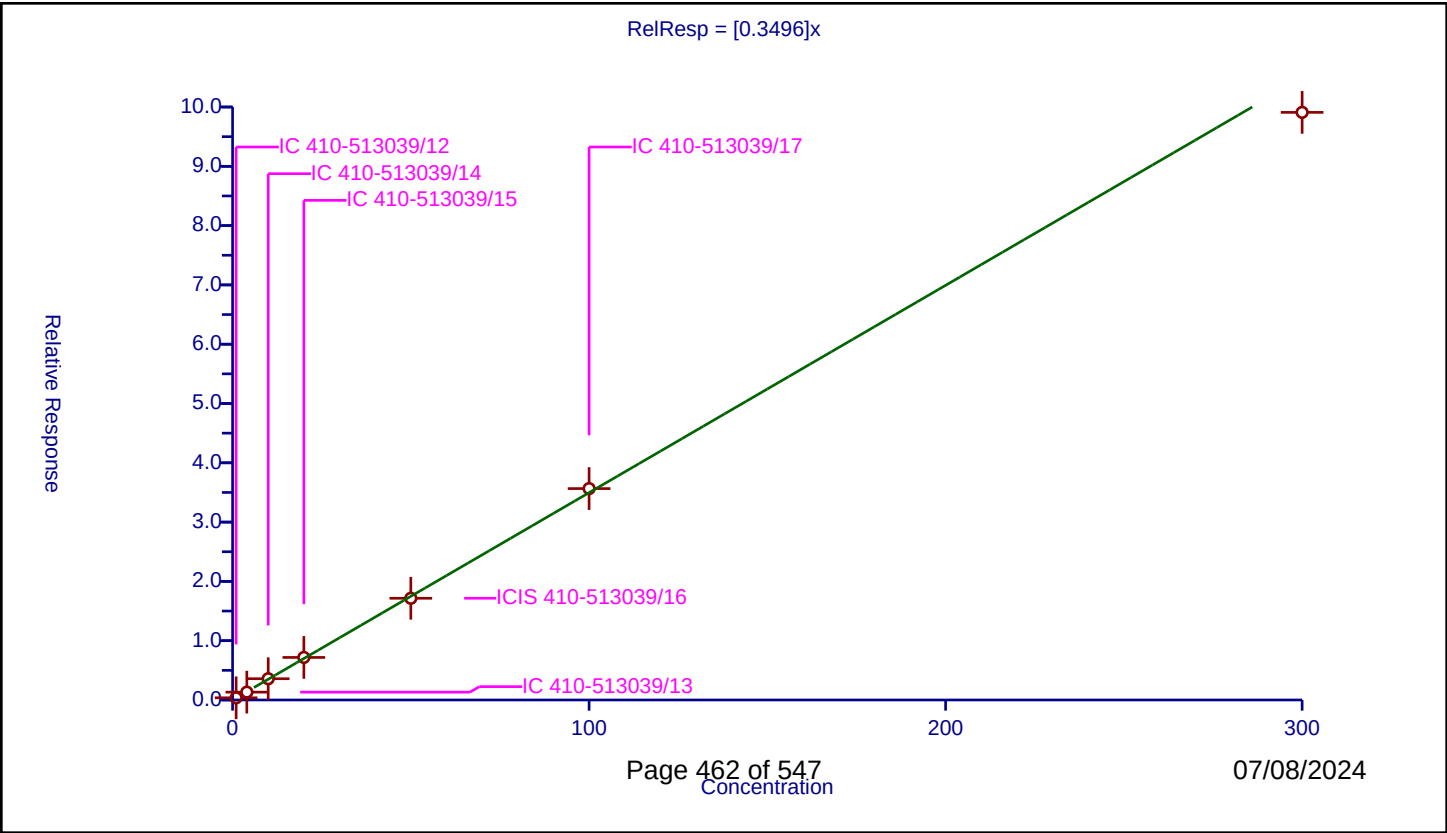


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3496
Error Coefficients	

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.369317	50.0	434044.0	0.369317	Y
2	IC 410-513039/13	4.0	1.323387	50.0	448055.0	0.330847	Y
3	IC 410-513039/14	10.0	3.587139	50.0	440100.0	0.358714	Y
4	IC 410-513039/15	20.0	7.173401	50.0	438014.0	0.35867	Y
5	ICIS 410-513039/16	50.0	17.156357	50.0	455968.0	0.343127	Y
6	IC 410-513039/17	100.0	35.648775	50.0	459682.0	0.356488	Y
7	IC 410-513039/18	300.0	99.09742	50.0	498460.0	0.330325	Y



Calibration

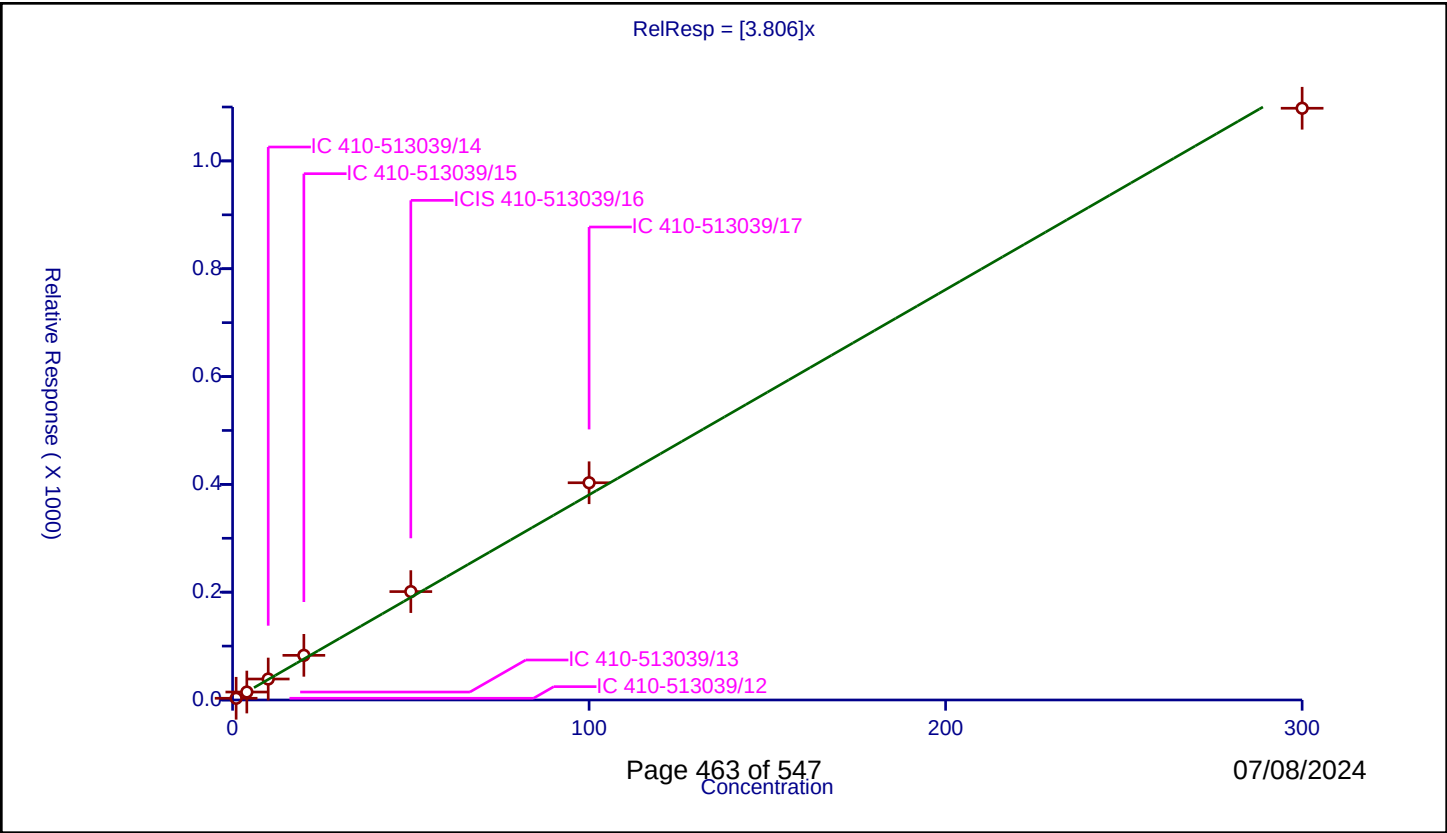
/ N-Propylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.806
Error Coefficients	

Relative Standard Deviation: 8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	3.203707	50.0	434044.0	3.203707	Y
2	IC 410-513039/13	4.0	14.78602	50.0	448055.0	3.696505	Y
3	IC 410-513039/14	10.0	38.892865	50.0	440100.0	3.889287	Y
4	IC 410-513039/15	20.0	82.856484	50.0	438014.0	4.142824	Y
5	ICIS 410-513039/16	50.0	201.074308	50.0	455968.0	4.021486	Y
6	IC 410-513039/17	100.0	403.00697	50.0	459682.0	4.03007	Y
7	IC 410-513039/18	300.0	1097.739839	50.0	498460.0	3.659133	Y



Calibration

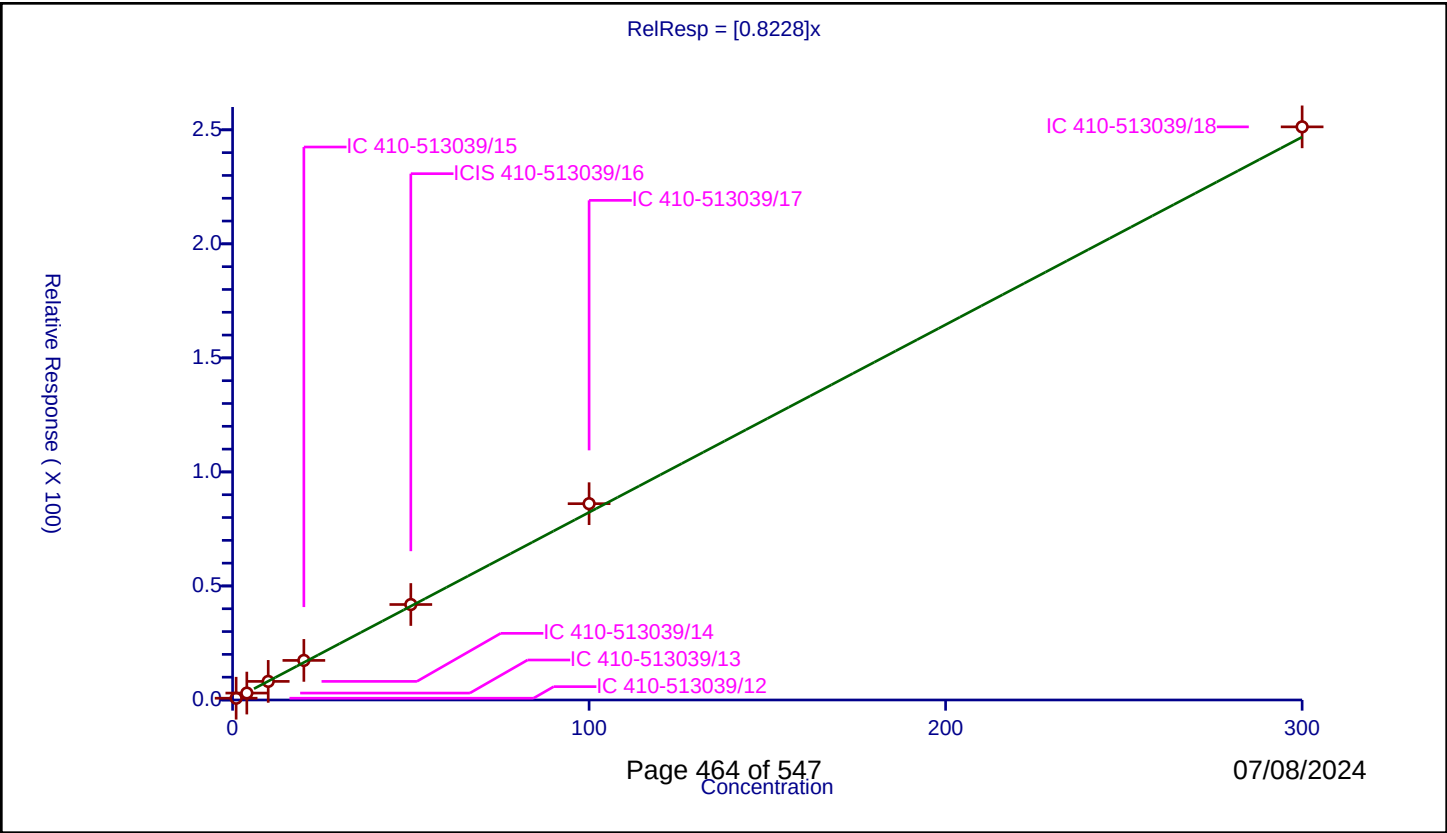
/ 2-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8228
Error Coefficients	

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.781372	50.0	434044.0	0.781372	Y
2	IC 410-513039/13	4.0	3.035118	50.0	448055.0	0.75878	Y
3	IC 410-513039/14	10.0	8.157123	50.0	440100.0	0.815712	Y
4	IC 410-513039/15	20.0	17.360404	50.0	438014.0	0.86802	Y
5	ICIS 410-513039/16	50.0	41.859078	50.0	455968.0	0.837182	Y
6	IC 410-513039/17	100.0	86.07037	50.0	459682.0	0.860704	Y
7	IC 410-513039/18	300.0	251.306424	50.0	498460.0	0.837688	Y



Calibration

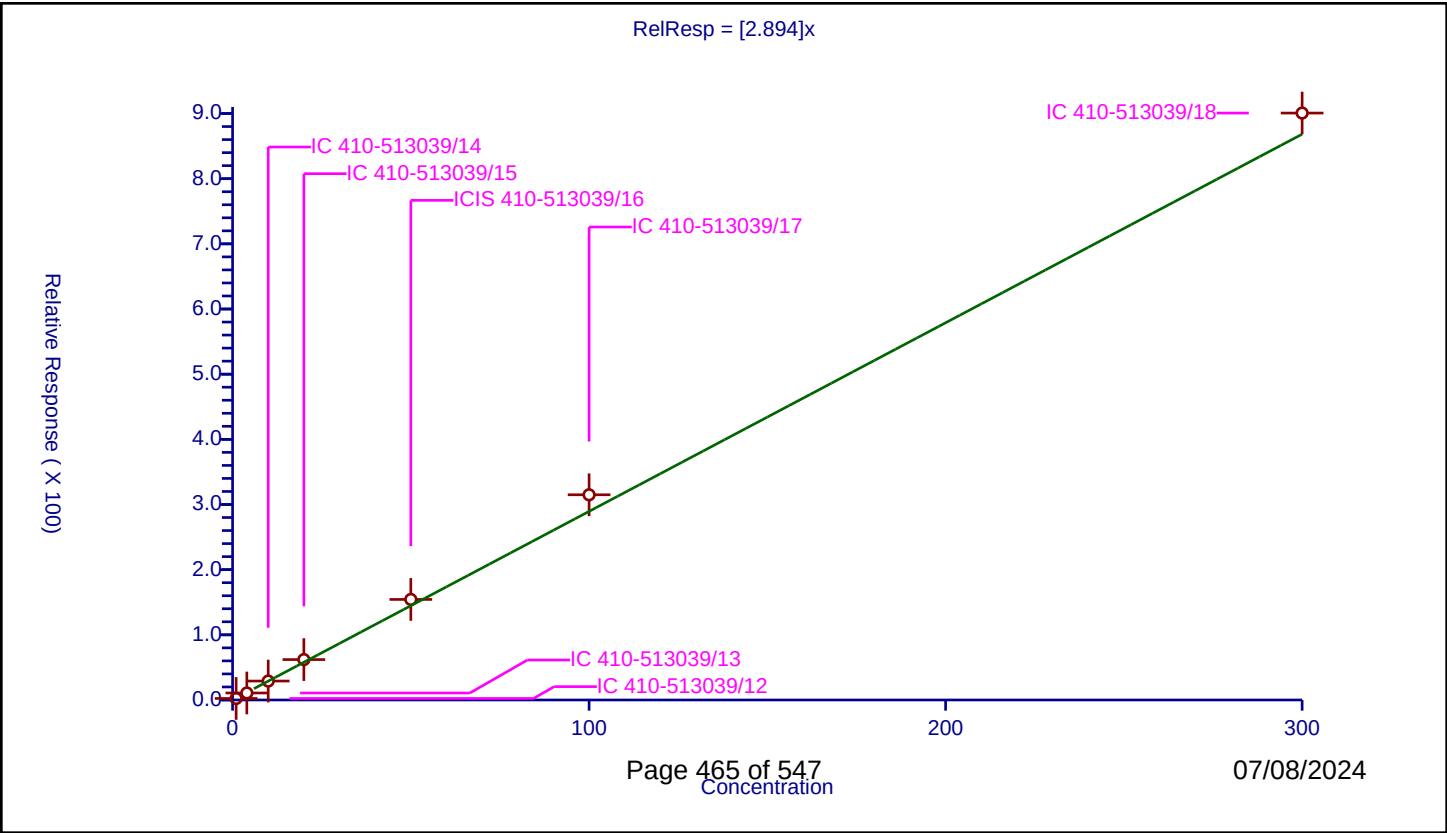
/ 1,3,5-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.894
Error Coefficients	

Relative Standard Deviation: 10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	2.333058	50.0	434044.0	2.333058	Y
2	IC 410-513039/13	4.0	10.732946	50.0	448055.0	2.683236	Y
3	IC 410-513039/14	10.0	29.058623	50.0	440100.0	2.905862	Y
4	IC 410-513039/15	20.0	62.011717	50.0	438014.0	3.100586	Y
5	ICIS 410-513039/16	50.0	154.308197	50.0	455968.0	3.086164	Y
6	IC 410-513039/17	100.0	314.919118	50.0	459682.0	3.149191	Y
7	IC 410-513039/18	300.0	900.729547	50.0	498460.0	3.002432	Y



Calibration

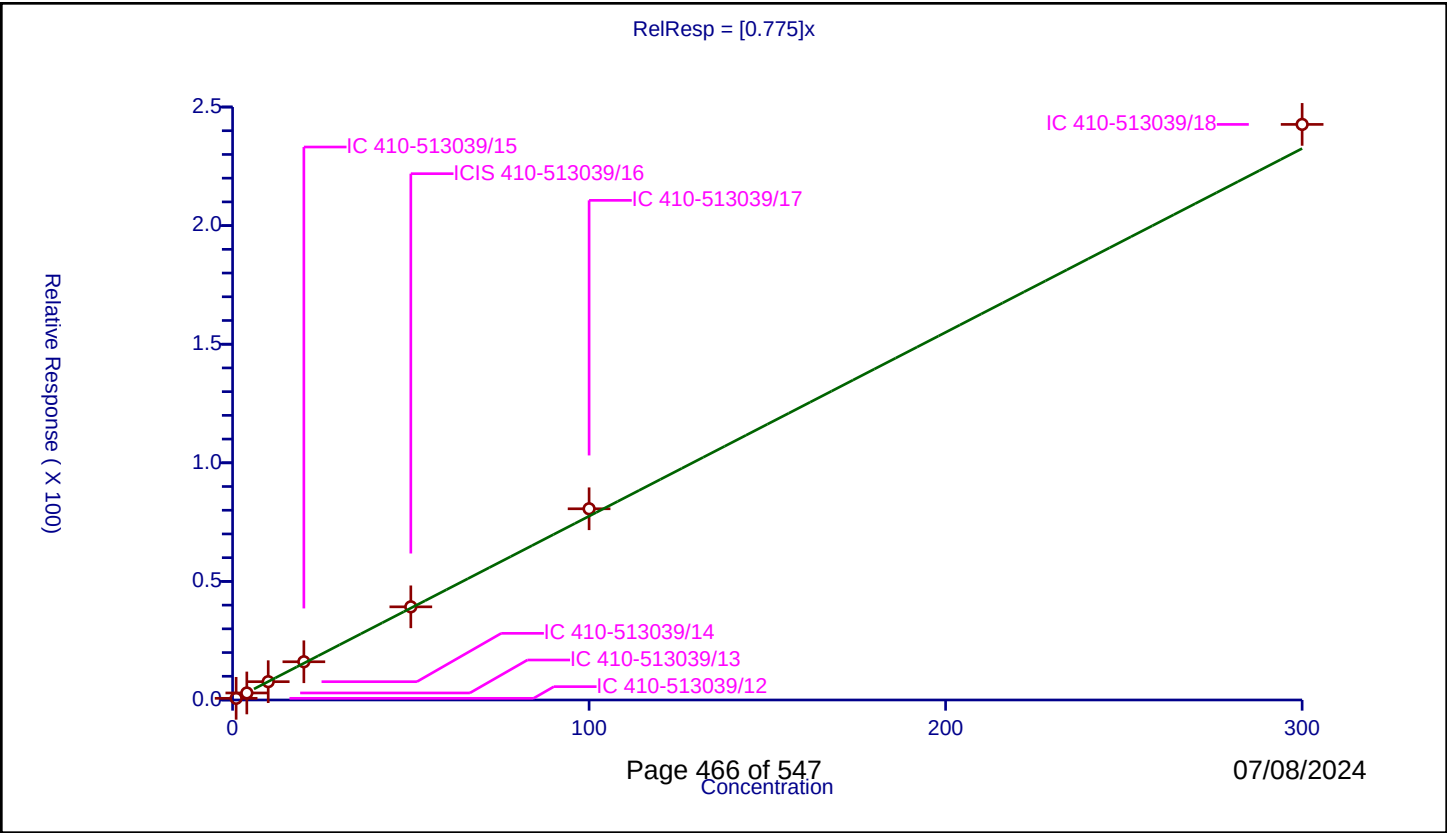
/ 4-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.775
Error Coefficients	

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.705689	50.0	434044.0	0.705689	Y
2	IC 410-513039/13	4.0	2.961913	50.0	448055.0	0.740478	Y
3	IC 410-513039/14	10.0	7.722563	50.0	440100.0	0.772256	Y
4	IC 410-513039/15	20.0	16.121973	50.0	438014.0	0.806099	Y
5	ICIS 410-513039/16	50.0	39.274796	50.0	455968.0	0.785496	Y
6	IC 410-513039/17	100.0	80.613663	50.0	459682.0	0.806137	Y
7	IC 410-513039/18	300.0	242.666011	50.0	498460.0	0.808887	Y



Calibration

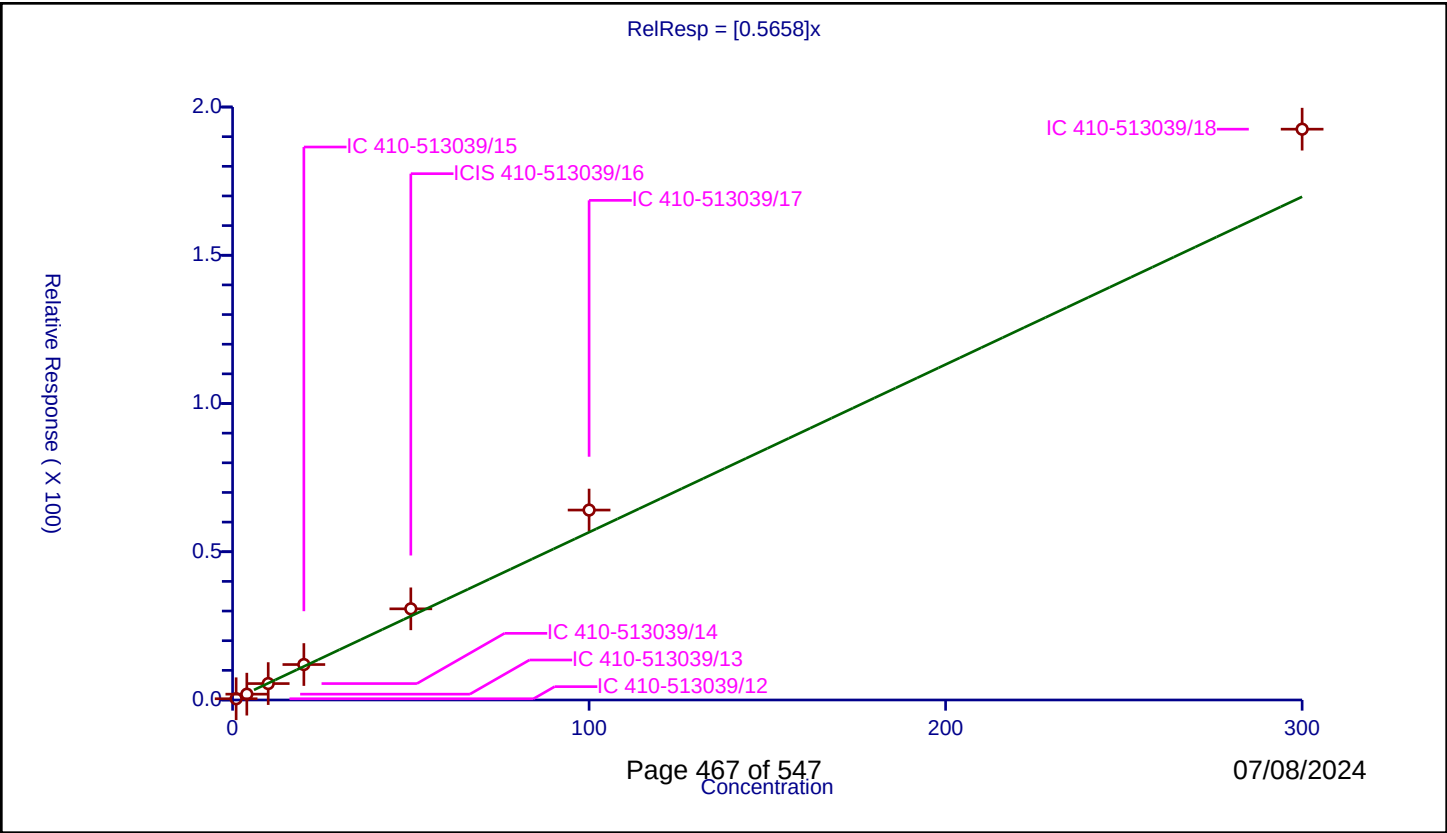
/ tert-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5658
Error Coefficients	

Relative Standard Deviation: 14.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.419543	50.0	434044.0	0.419543	Y
2	IC 410-513039/13	4.0	1.968955	50.0	448055.0	0.492239	Y
3	IC 410-513039/14	10.0	5.53397	50.0	440100.0	0.553397	Y
4	IC 410-513039/15	20.0	11.961033	50.0	438014.0	0.598052	Y
5	ICIS 410-513039/16	50.0	30.747552	50.0	455968.0	0.614951	Y
6	IC 410-513039/17	100.0	64.059502	50.0	459682.0	0.640595	Y
7	IC 410-513039/18	300.0	192.525779	50.0	498460.0	0.641753	Y



Calibration

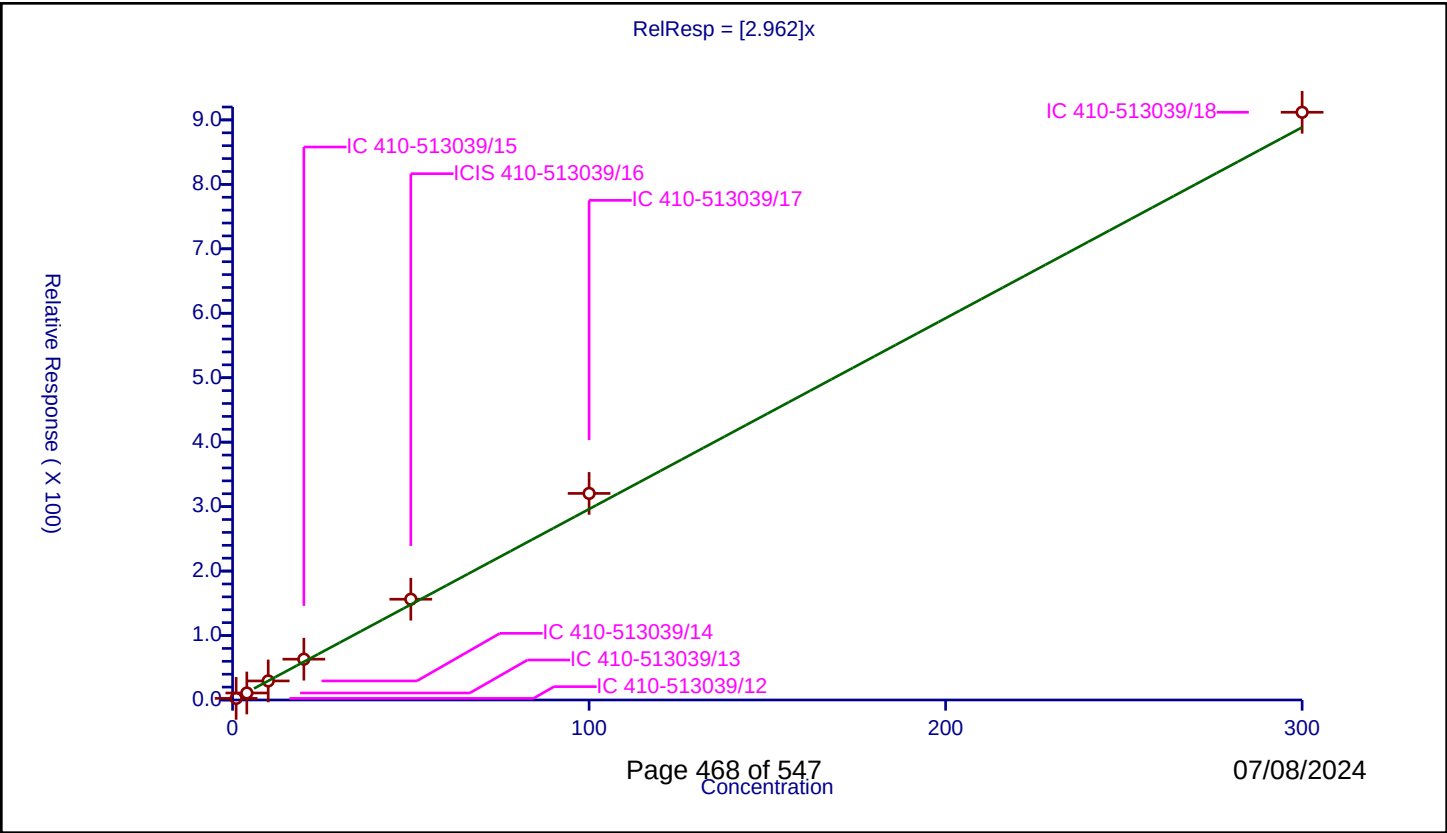
/ 1,2,4-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.962
Error Coefficients	

Relative Standard Deviation: 8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	2.520251	50.0	434044.0	2.520251	Y
2	IC 410-513039/13	4.0	10.87612	50.0	448055.0	2.71903	Y
3	IC 410-513039/14	10.0	29.564304	50.0	440100.0	2.95643	Y
4	IC 410-513039/15	20.0	63.307566	50.0	438014.0	3.165378	Y
5	ICIS 410-513039/16	50.0	156.323251	50.0	455968.0	3.126465	Y
6	IC 410-513039/17	100.0	320.485901	50.0	459682.0	3.204859	Y
7	IC 410-513039/18	300.0	911.862336	50.0	498460.0	3.039541	Y



Calibration

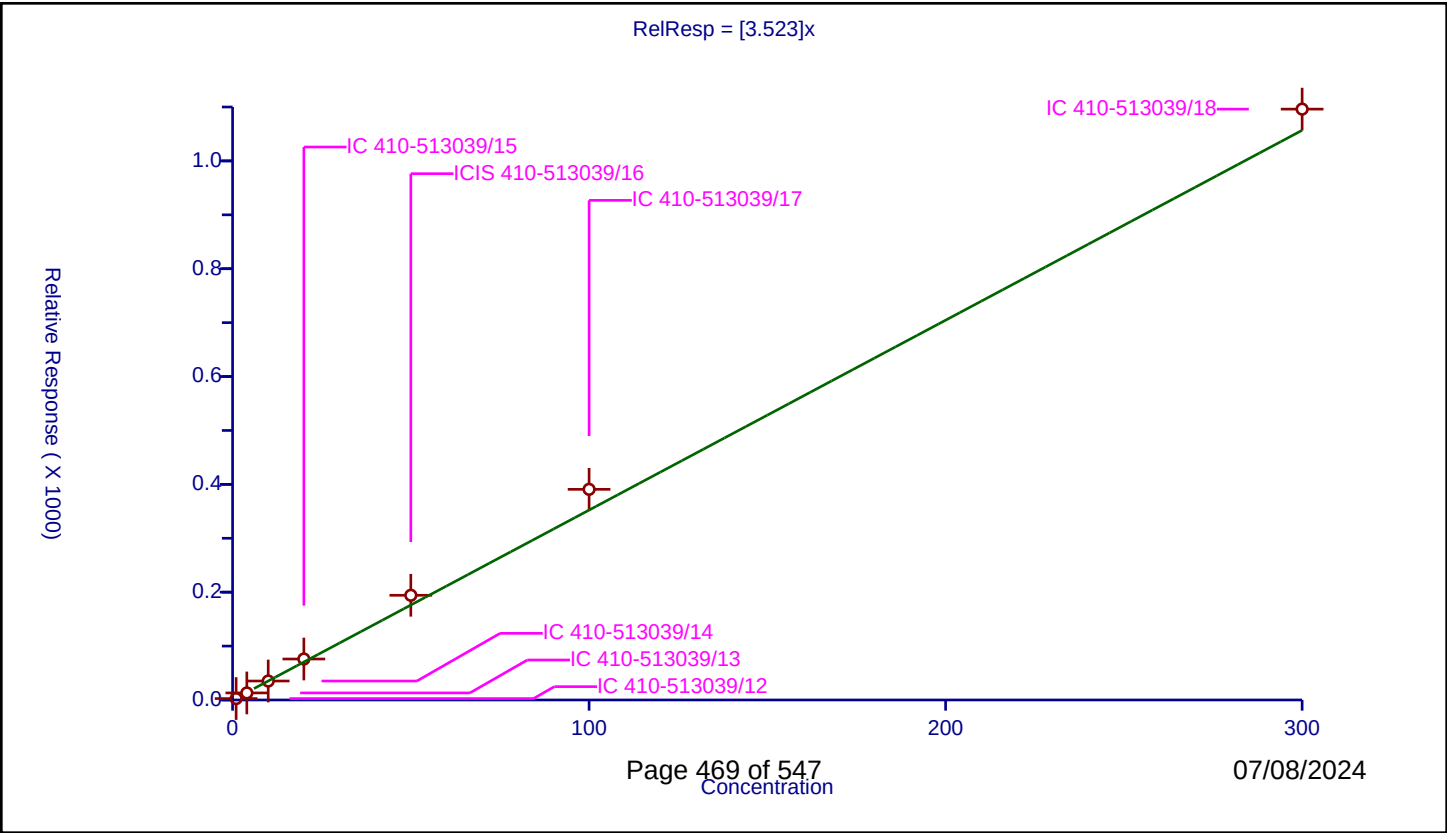
/ sec-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.523
Error Coefficients	

Relative Standard Deviation: 12.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	2.626347	50.0	434044.0	2.626347	Y
2	IC 410-513039/13	4.0	13.070159	50.0	448055.0	3.26754	Y
3	IC 410-513039/14	10.0	35.182004	50.0	440100.0	3.5182	Y
4	IC 410-513039/15	20.0	76.020401	50.0	438014.0	3.80102	Y
5	ICIS 410-513039/16	50.0	194.218125	50.0	455968.0	3.884362	Y
6	IC 410-513039/17	100.0	390.754478	50.0	459682.0	3.907545	Y
7	IC 410-513039/18	300.0	1096.073607	50.0	498460.0	3.653579	Y



Calibration

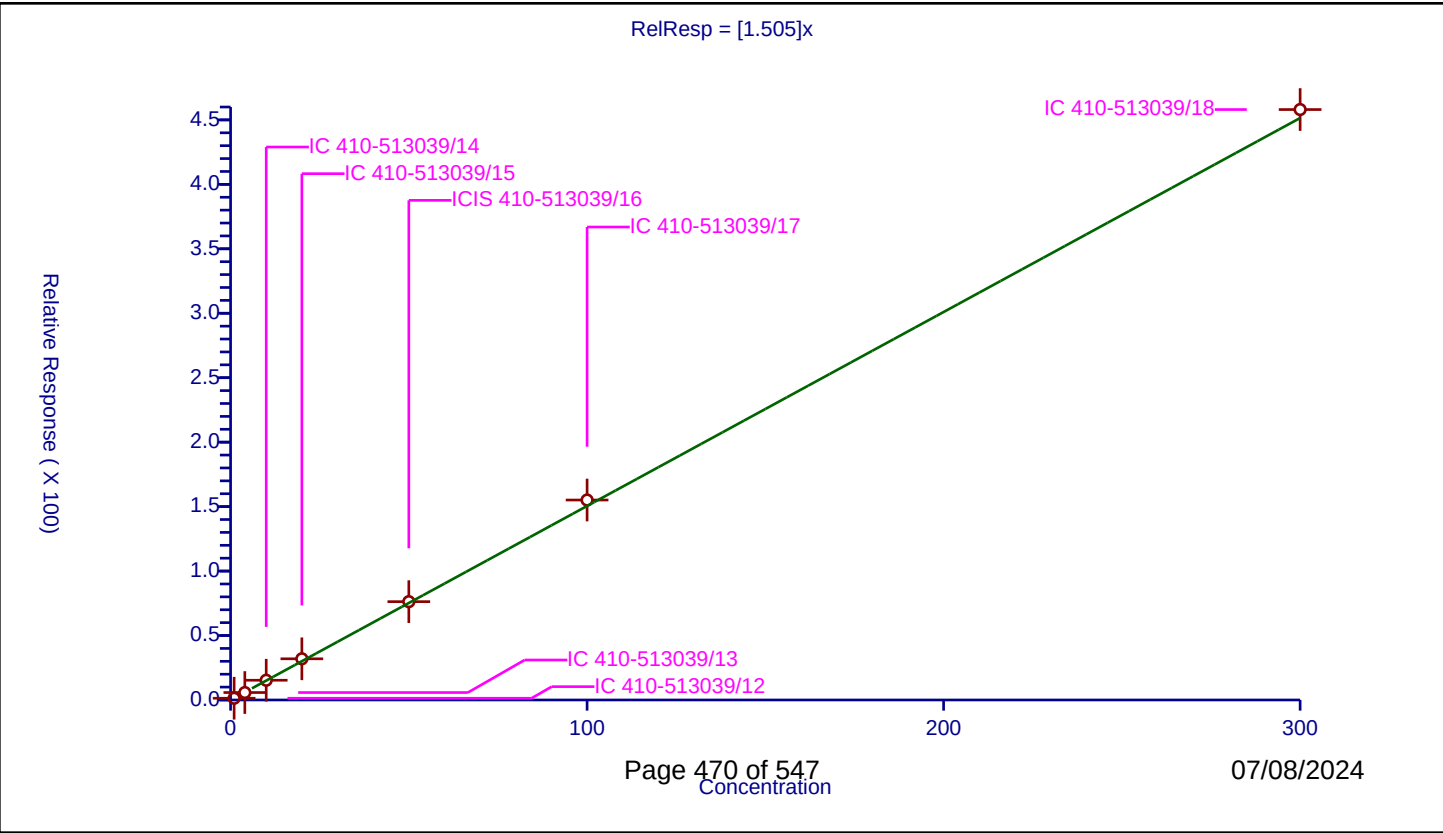
/ 1,3-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.505
Error Coefficients	

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.358272	50.0	434044.0	1.358272	Y
2	IC 410-513039/13	4.0	5.771724	50.0	448055.0	1.442931	Y
3	IC 410-513039/14	10.0	15.31277	50.0	440100.0	1.531277	Y
4	IC 410-513039/15	20.0	31.958453	50.0	438014.0	1.597923	Y
5	ICIS 410-513039/16	50.0	76.286384	50.0	455968.0	1.525728	Y
6	IC 410-513039/17	100.0	155.113426	50.0	459682.0	1.551134	Y
7	IC 410-513039/18	300.0	458.034145	50.0	498460.0	1.52678	Y



Calibration

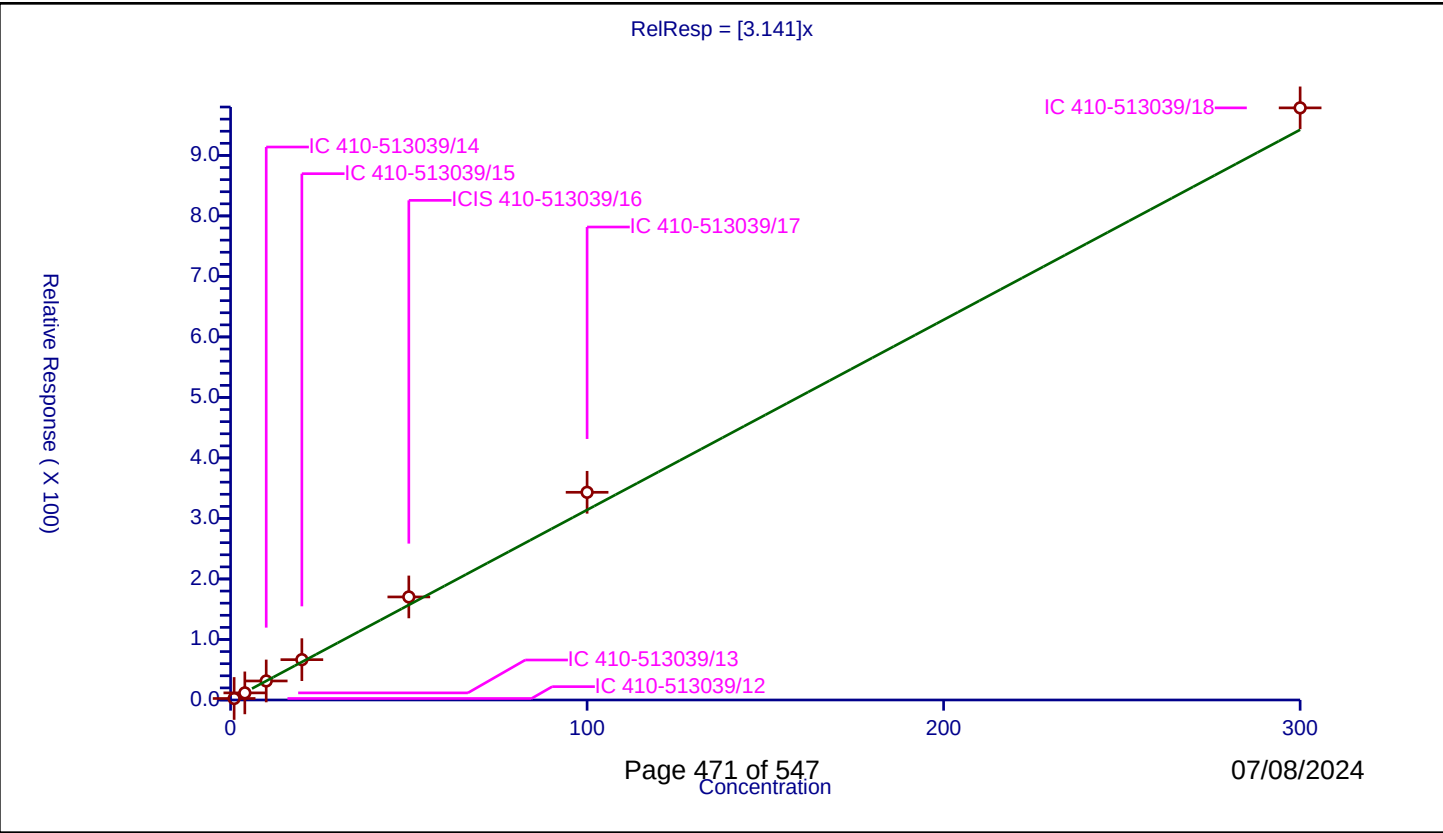
/ 4-Isopropyltoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.141
Error Coefficients	

Relative Standard Deviation: 10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	2.474288	50.0	434044.0	2.474288	Y
2	IC 410-513039/13	4.0	11.753579	50.0	448055.0	2.938395	Y
3	IC 410-513039/14	10.0	31.432288	50.0	440100.0	3.143229	Y
4	IC 410-513039/15	20.0	66.654034	50.0	438014.0	3.332702	Y
5	ICIS 410-513039/16	50.0	170.317106	50.0	455968.0	3.406342	Y
6	IC 410-513039/17	100.0	343.263604	50.0	459682.0	3.432636	Y
7	IC 410-513039/18	300.0	978.6038	50.0	498460.0	3.262013	Y



Calibration

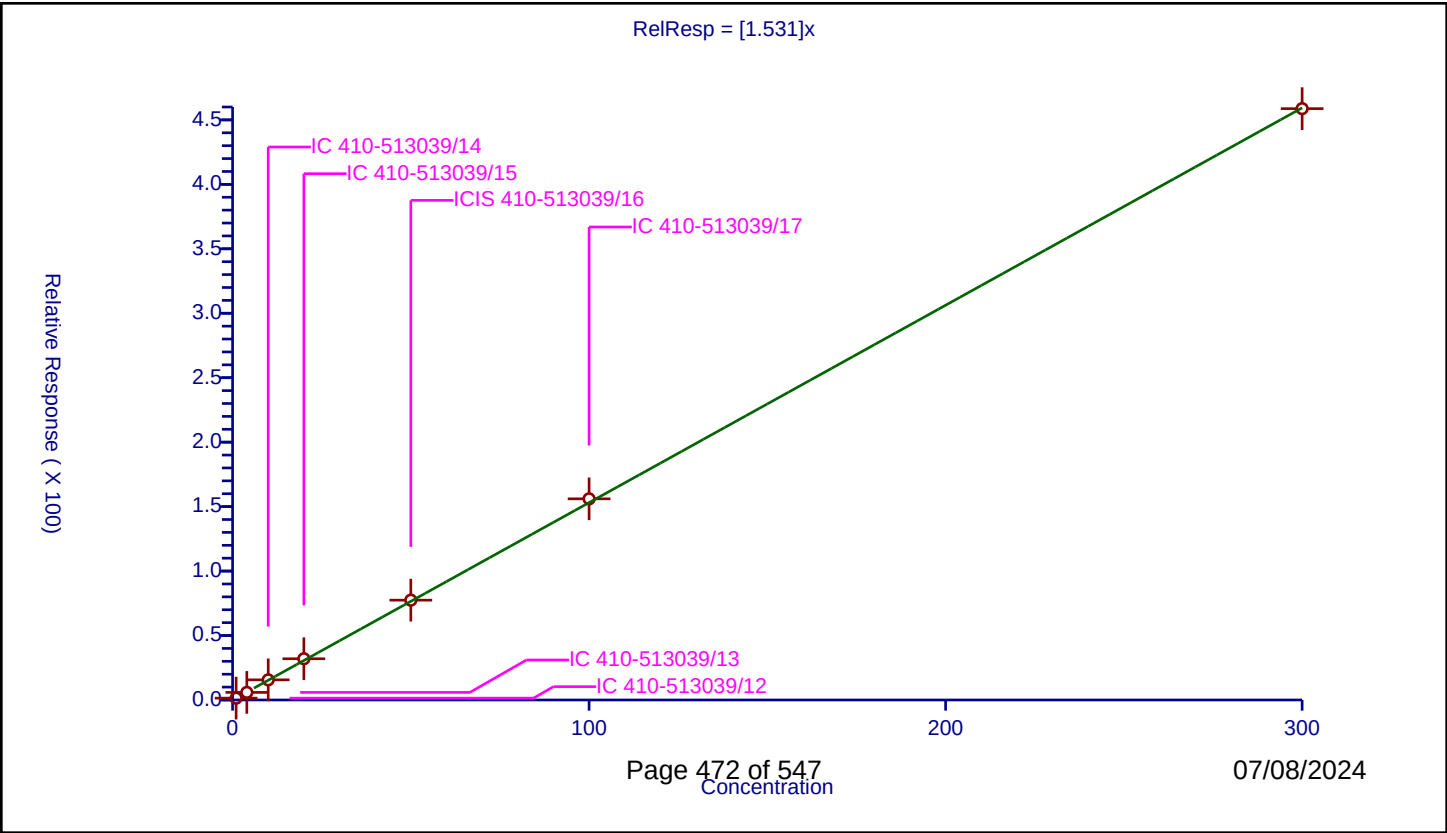
/ 1,4-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.531
Error Coefficients	

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.447434	50.0	434044.0	1.447434	Y
2	IC 410-513039/13	4.0	5.880974	50.0	448055.0	1.470244	Y
3	IC 410-513039/14	10.0	15.619973	50.0	440100.0	1.561997	Y
4	IC 410-513039/15	20.0	31.995553	50.0	438014.0	1.599778	Y
5	ICIS 410-513039/16	50.0	77.446005	50.0	455968.0	1.54892	Y
6	IC 410-513039/17	100.0	156.043743	50.0	459682.0	1.560437	Y
7	IC 410-513039/18	300.0	458.746238	50.0	498460.0	1.529154	Y



Calibration

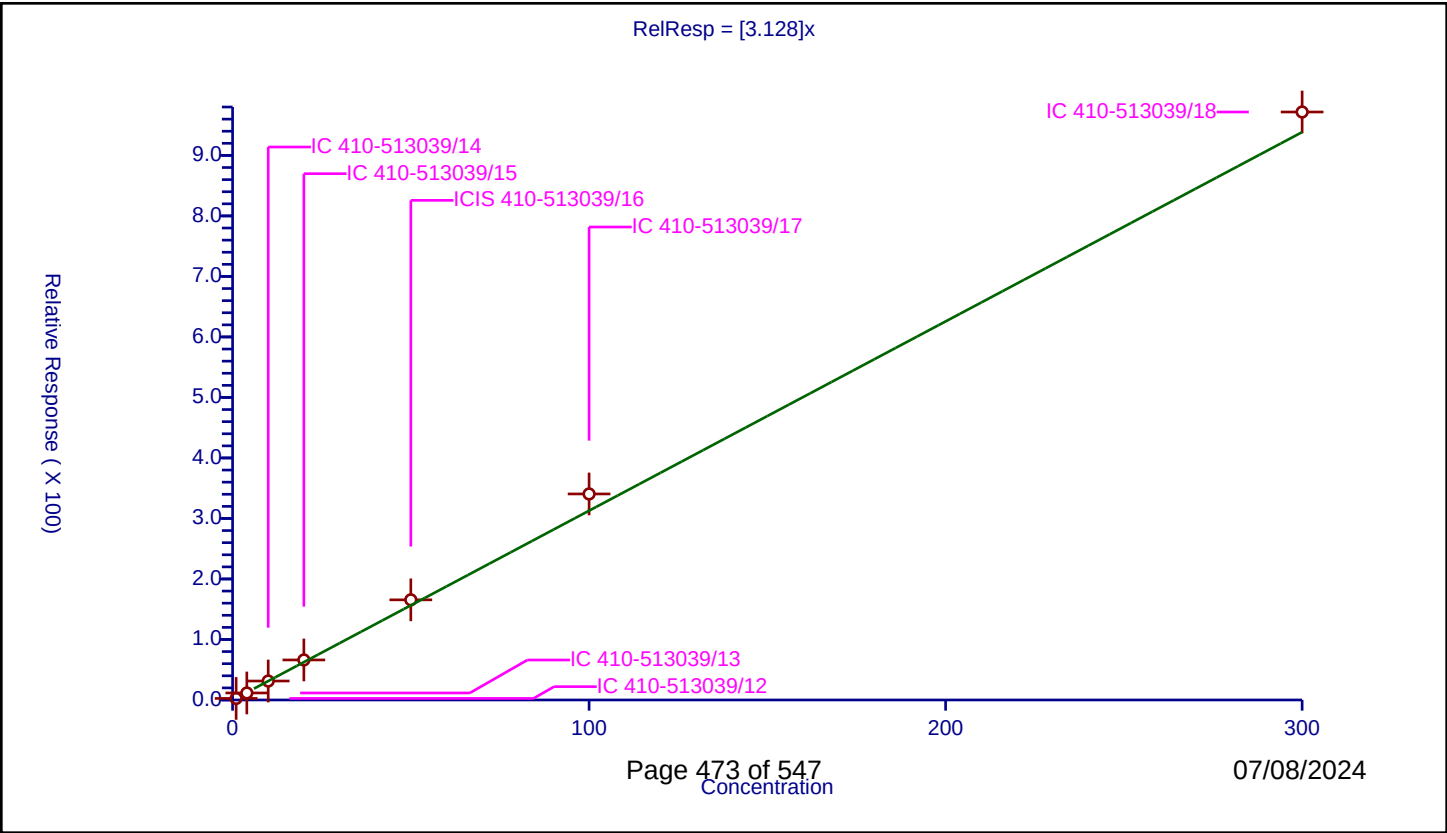
/ 1,2,3-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.128

Error Coefficients	
Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	2.598815	50.0	434044.0	2.598815	Y
2	IC 410-513039/13	4.0	11.595675	50.0	448055.0	2.898919	Y
3	IC 410-513039/14	10.0	31.366167	50.0	440100.0	3.136617	Y
4	IC 410-513039/15	20.0	66.177223	50.0	438014.0	3.308861	Y
5	ICIS 410-513039/16	50.0	165.508983	50.0	455968.0	3.31018	Y
6	IC 410-513039/17	100.0	340.510179	50.0	459682.0	3.405102	Y
7	IC 410-513039/18	300.0	971.768447	50.0	498460.0	3.239228	Y



Calibration

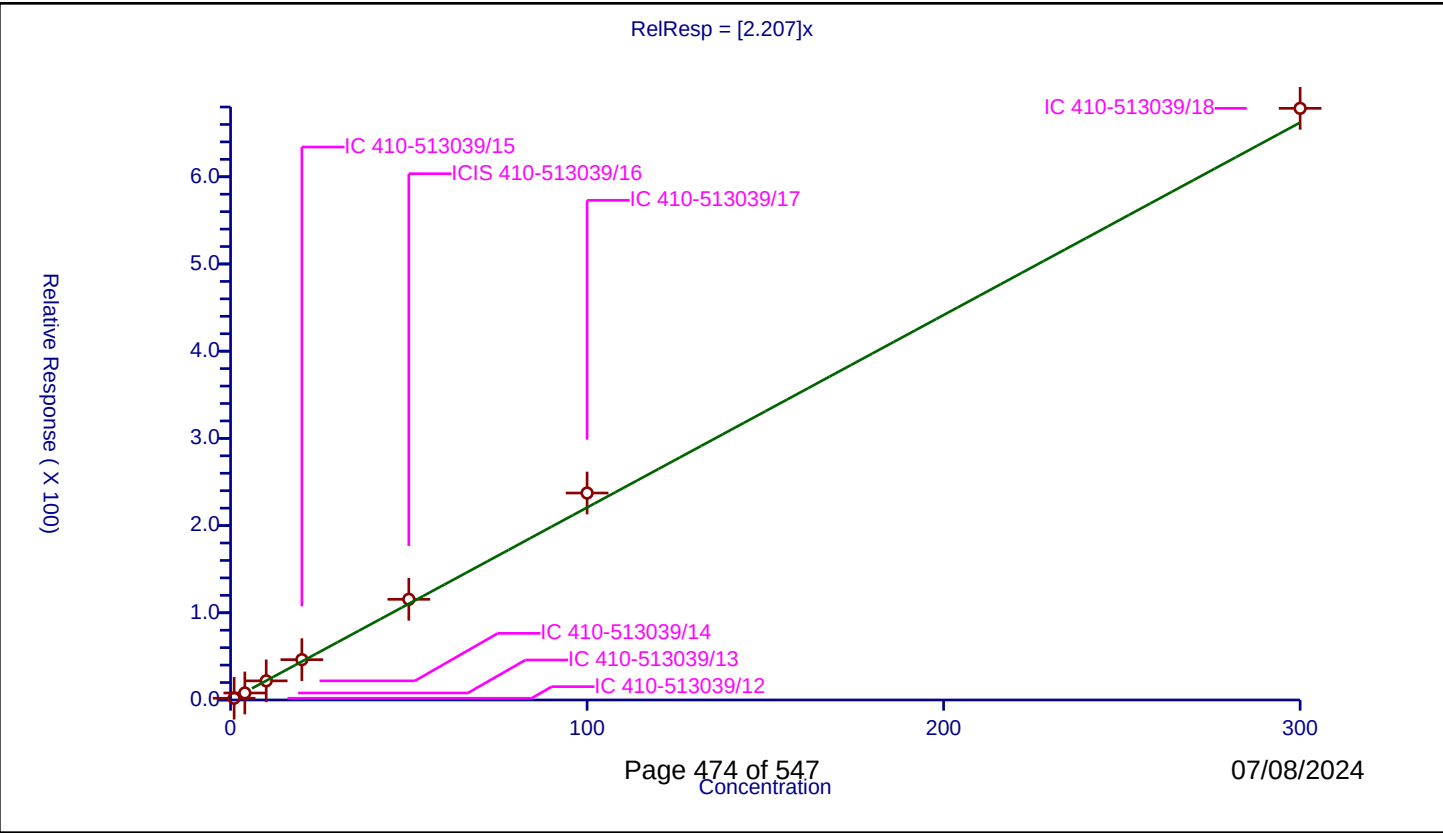
/ Benzyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.207

Error Coefficients	
Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.989545	50.0	434044.0	1.989545	Y
2	IC 410-513039/13	4.0	8.039638	50.0	448055.0	2.009909	Y
3	IC 410-513039/14	10.0	21.950466	50.0	440100.0	2.195047	Y
4	IC 410-513039/15	20.0	46.240303	50.0	438014.0	2.312015	Y
5	ICIS 410-513039/16	50.0	115.460076	50.0	455968.0	2.309202	Y
6	IC 410-513039/17	100.0	237.336898	50.0	459682.0	2.373369	Y
7	IC 410-513039/18	300.0	678.504995	50.0	498460.0	2.261683	Y



Calibration

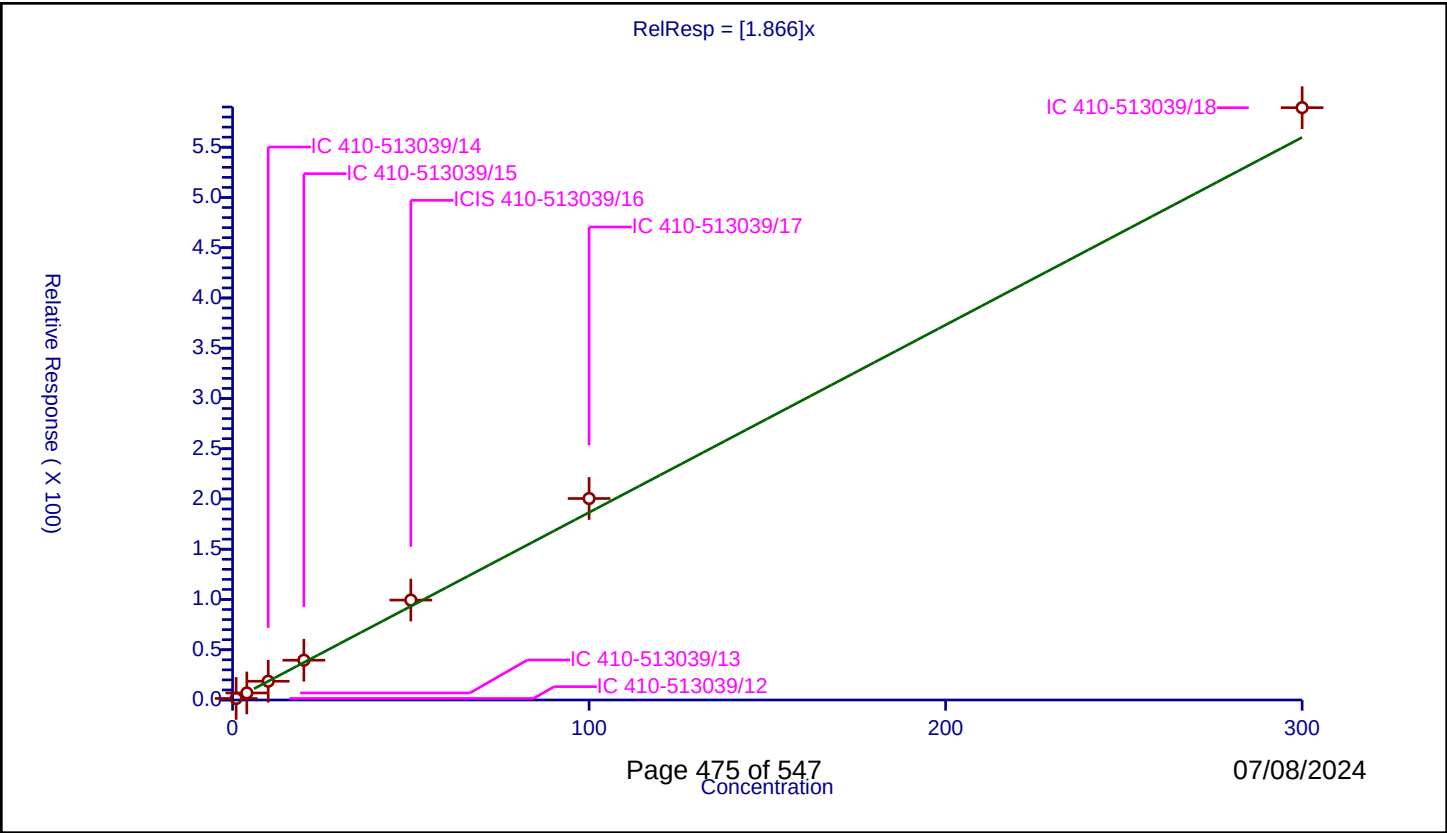
/ 1,3-Diethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.866
Error Coefficients	

Relative Standard Deviation: 9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.512635	50.0	434044.0	1.512635	Y
2	IC 410-513039/13	4.0	6.985973	50.0	448055.0	1.746493	Y
3	IC 410-513039/14	10.0	18.670302	50.0	440100.0	1.86703	Y
4	IC 410-513039/15	20.0	39.561863	50.0	438014.0	1.978093	Y
5	ICIS 410-513039/16	50.0	99.400397	50.0	455968.0	1.988008	Y
6	IC 410-513039/17	100.0	200.468585	50.0	459682.0	2.004686	Y
7	IC 410-513039/18	300.0	589.348393	50.0	498460.0	1.964495	Y



Calibration

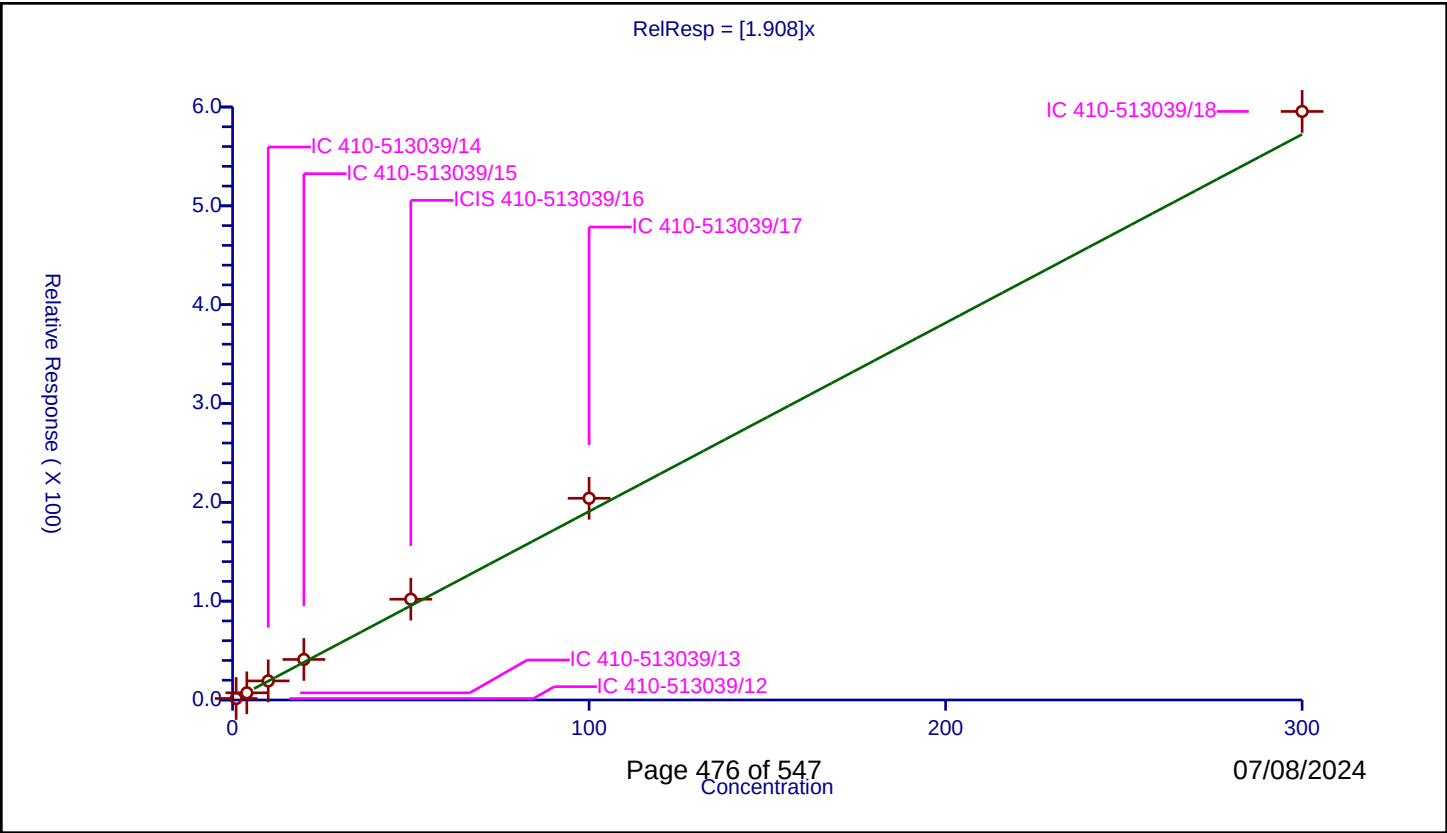
/ p-Diethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.908

Error Coefficients	
Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.500309	50.0	434044.0	1.500309	Y
2	IC 410-513039/13	4.0	7.232483	50.0	448055.0	1.808121	Y
3	IC 410-513039/14	10.0	19.29641	50.0	440100.0	1.929641	Y
4	IC 410-513039/15	20.0	41.039328	50.0	438014.0	2.051966	Y
5	ICIS 410-513039/16	50.0	101.968779	50.0	455968.0	2.039376	Y
6	IC 410-513039/17	100.0	204.111103	50.0	459682.0	2.041111	Y
7	IC 410-513039/18	300.0	595.516992	50.0	498460.0	1.985057	Y



Calibration

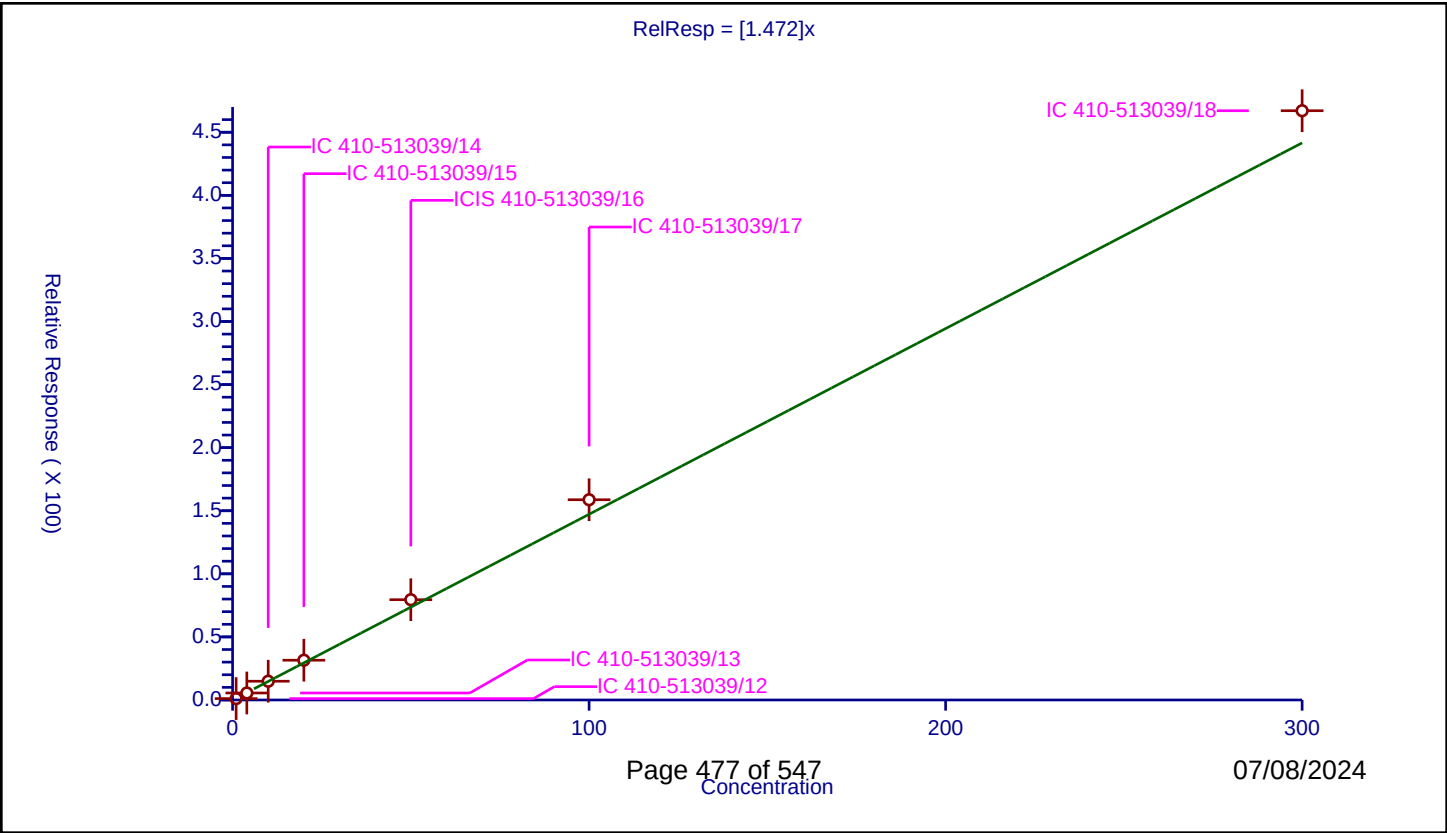
/ n-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.472
Error Coefficients	

Relative Standard Deviation: 11.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.117974	50.0	434044.0	1.117974	Y
2	IC 410-513039/13	4.0	5.55713	50.0	448055.0	1.389283	Y
3	IC 410-513039/14	10.0	14.861622	50.0	440100.0	1.486162	Y
4	IC 410-513039/15	20.0	31.519426	50.0	438014.0	1.575971	Y
5	ICIS 410-513039/16	50.0	79.48628	50.0	455968.0	1.589726	Y
6	IC 410-513039/17	100.0	158.729948	50.0	459682.0	1.587299	Y
7	IC 410-513039/18	300.0	467.053525	50.0	498460.0	1.556845	Y



Calibration

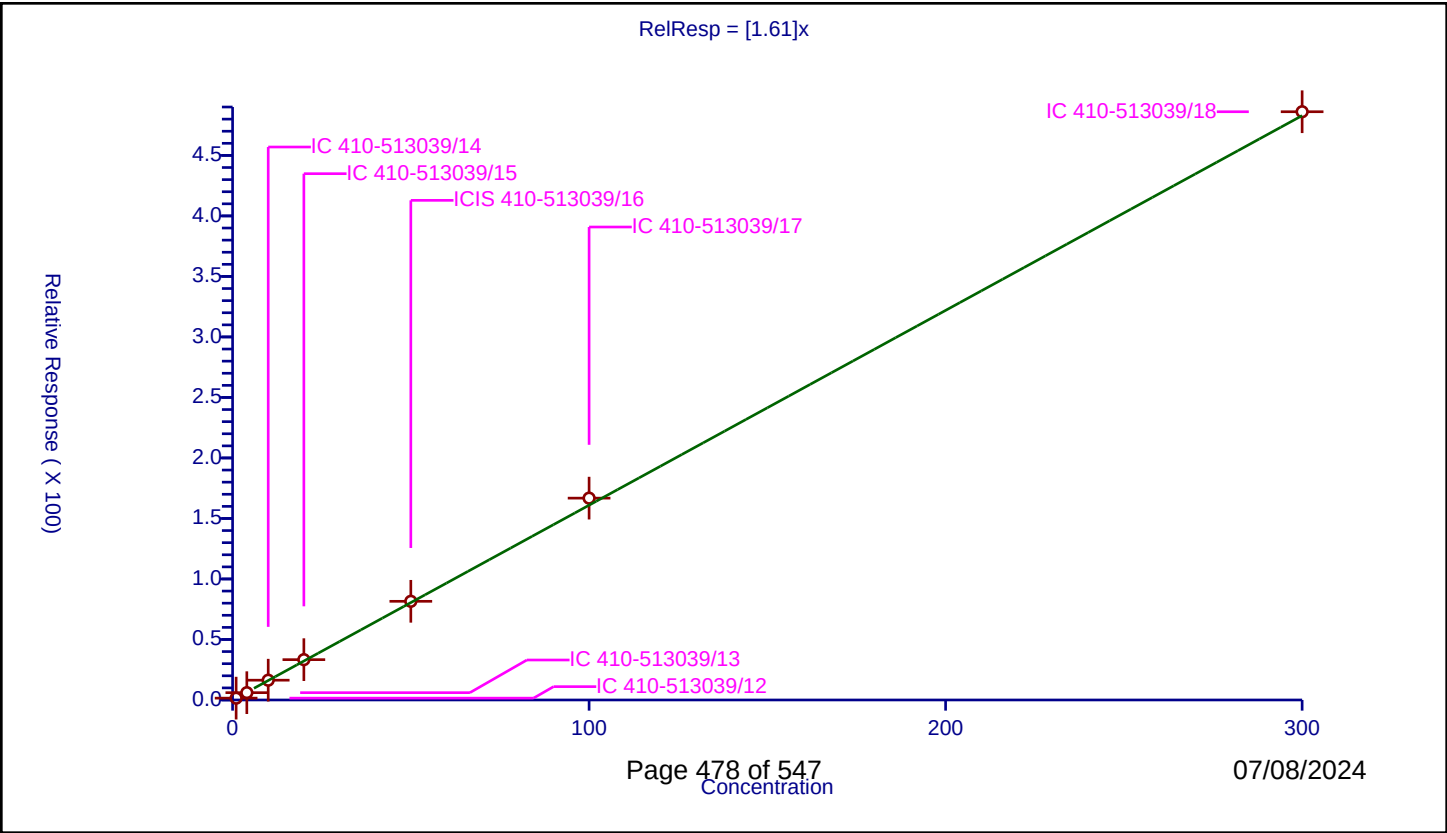
/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.61
Error Coefficients	

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.53648	50.0	434044.0	1.53648	Y
2	IC 410-513039/13	4.0	6.039995	50.0	448055.0	1.509999	Y
3	IC 410-513039/14	10.0	16.35935	50.0	440100.0	1.635935	Y
4	IC 410-513039/15	20.0	33.32462	50.0	438014.0	1.666231	Y
5	ICIS 410-513039/16	50.0	81.549582	50.0	455968.0	1.630992	Y
6	IC 410-513039/17	100.0	166.798678	50.0	459682.0	1.667987	Y
7	IC 410-513039/18	300.0	486.095976	50.0	498460.0	1.62032	Y



Calibration

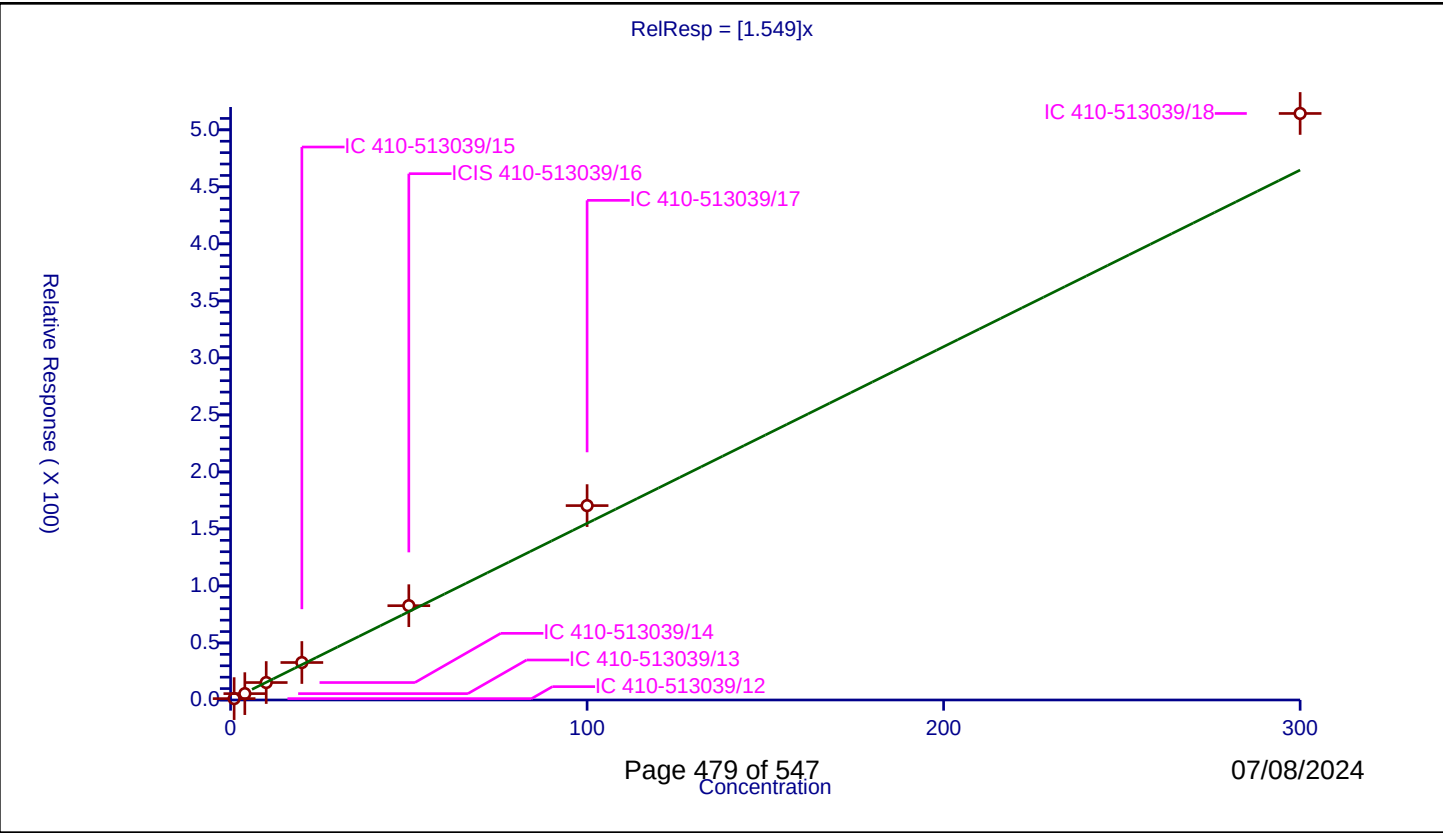
/ o-diethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.549
Error Coefficients	

Relative Standard Deviation: 12.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.205293	50.0	434044.0	1.205293	Y
2	IC 410-513039/13	4.0	5.567955	50.0	448055.0	1.391989	Y
3	IC 410-513039/14	10.0	15.301068	50.0	440100.0	1.530107	Y
4	IC 410-513039/15	20.0	32.855799	50.0	438014.0	1.64279	Y
5	ICIS 410-513039/16	50.0	82.698347	50.0	455968.0	1.653967	Y
6	IC 410-513039/17	100.0	170.454793	50.0	459682.0	1.704548	Y
7	IC 410-513039/18	300.0	514.347791	50.0	498460.0	1.714493	Y



Calibration

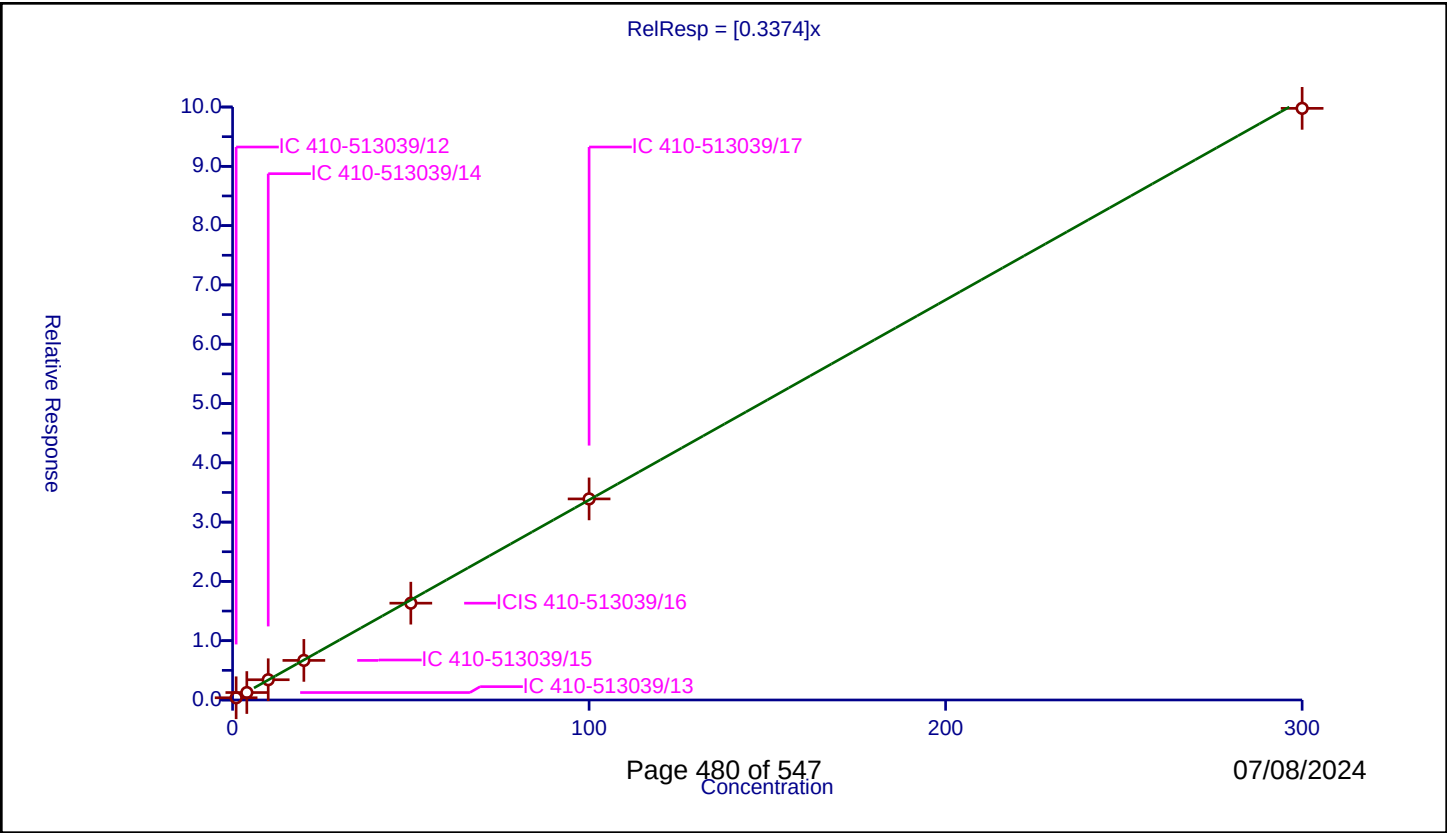
/ 1,2-Dibromo-3-Chloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3374
Error Coefficients	

Relative Standard Deviation: 5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.373464	50.0	434044.0	0.373464	Y
2	IC 410-513039/13	4.0	1.257435	50.0	448055.0	0.314359	Y
3	IC 410-513039/14	10.0	3.417519	50.0	440100.0	0.341752	Y
4	IC 410-513039/15	20.0	6.675129	50.0	438014.0	0.333756	Y
5	ICIS 410-513039/16	50.0	16.32812	50.0	455968.0	0.326562	Y
6	IC 410-513039/17	100.0	33.912248	50.0	459682.0	0.339122	Y
7	IC 410-513039/18	300.0	99.775809	50.0	498460.0	0.332586	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

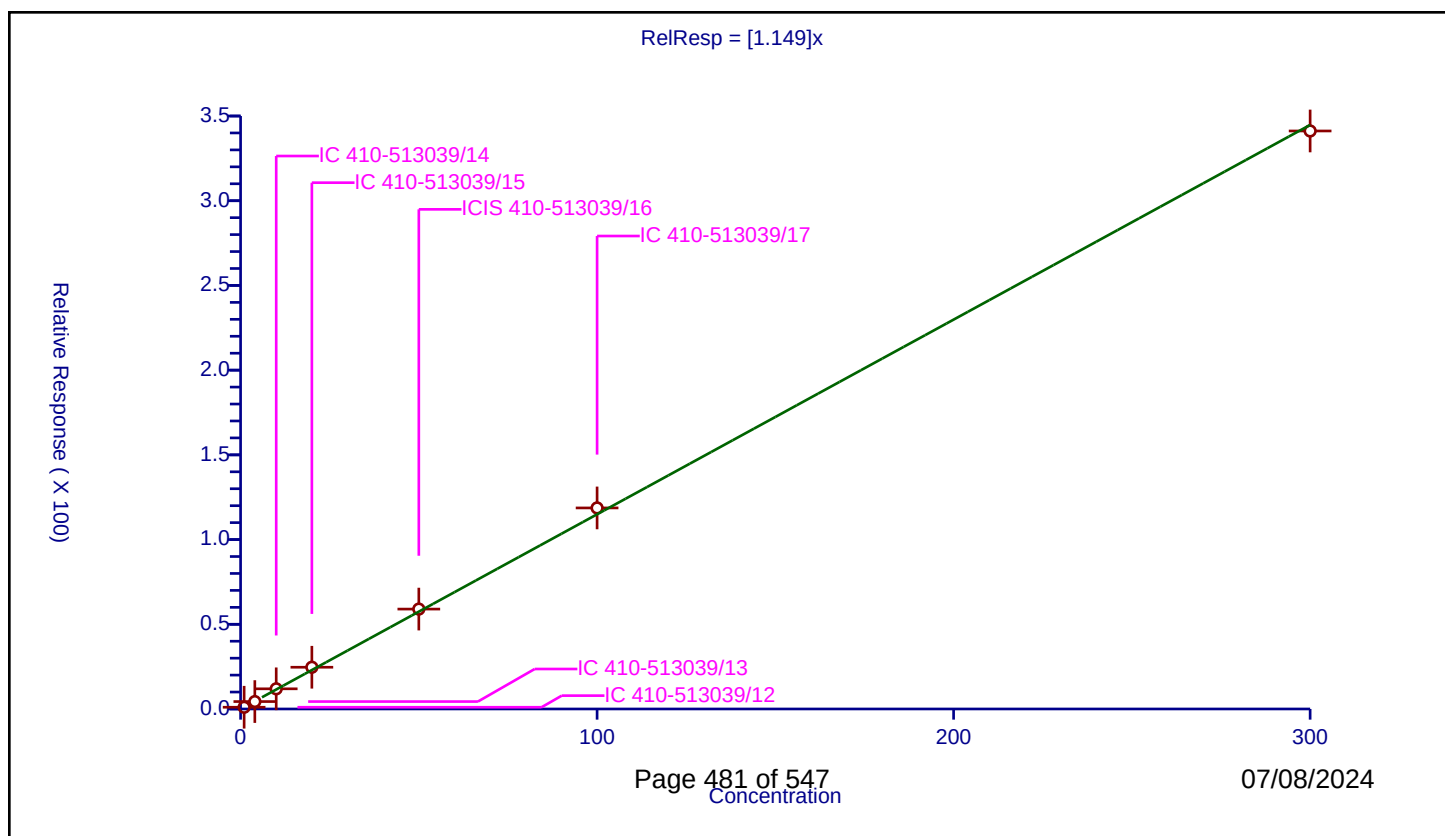
Curve Coefficients

Intercept: 0
Slope: 1.149

Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.02409	50.0	434044.0	1.02409	Y
2	IC 410-513039/13	4.0	4.377141	50.0	448055.0	1.094285	Y
3	IC 410-513039/14	10.0	11.899568	50.0	440100.0	1.189957	Y
4	IC 410-513039/15	20.0	24.643048	50.0	438014.0	1.232152	Y
5	ICIS 410-513039/16	50.0	58.97234	50.0	455968.0	1.179447	Y
6	IC 410-513039/17	100.0	118.664207	50.0	459682.0	1.186642	Y
7	IC 410-513039/18	300.0	341.168098	50.0	498460.0	1.137227	Y



Calibration

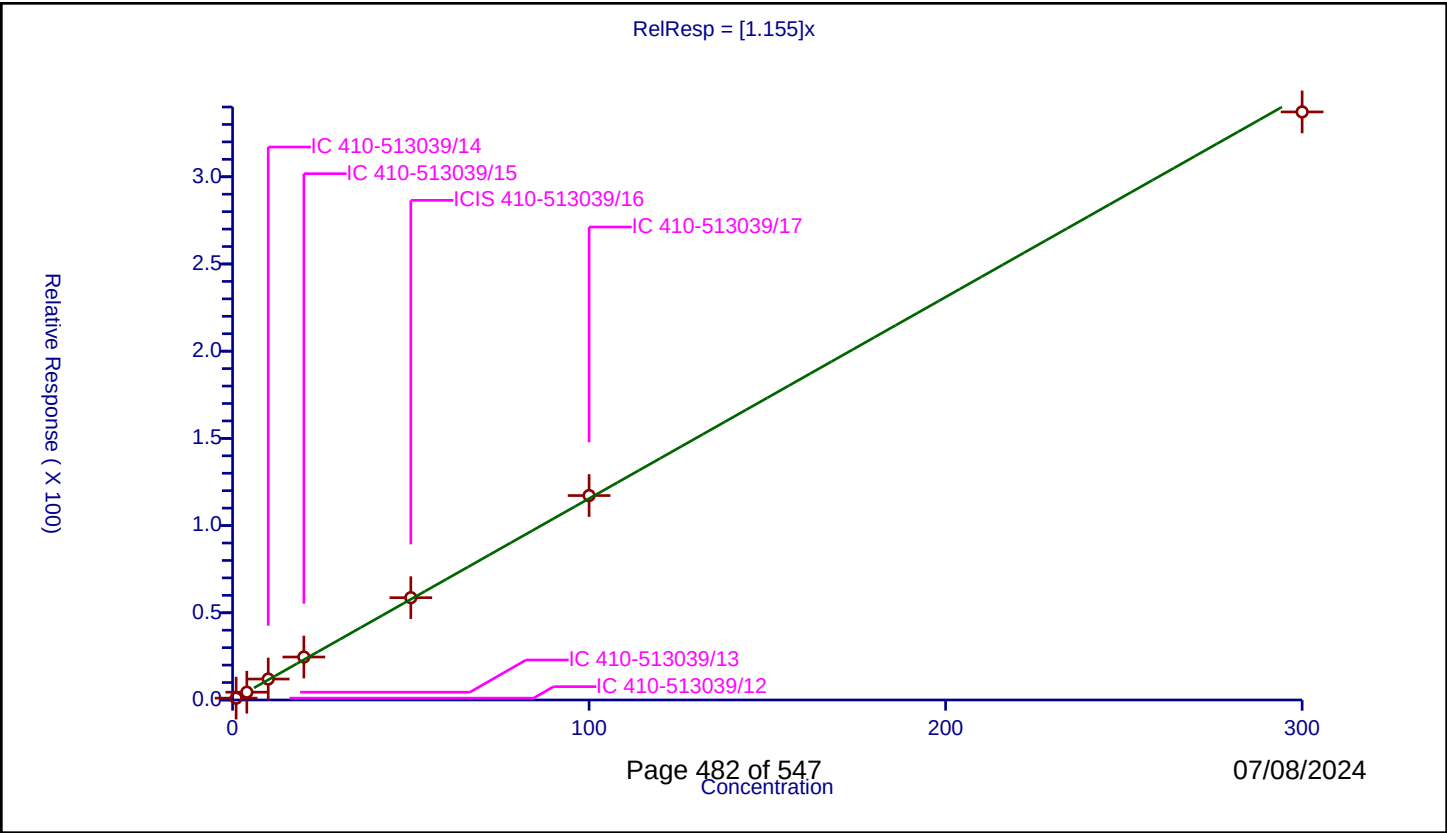
/ 1,2,4-Trichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.155
Error Coefficients	

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.064178	50.0	434044.0	1.064178	Y
2	IC 410-513039/13	4.0	4.477017	50.0	448055.0	1.119254	Y
3	IC 410-513039/14	10.0	12.009884	50.0	440100.0	1.200988	Y
4	IC 410-513039/15	20.0	24.634829	50.0	438014.0	1.231741	Y
5	ICIS 410-513039/16	50.0	58.666727	50.0	455968.0	1.173335	Y
6	IC 410-513039/17	100.0	117.221906	50.0	459682.0	1.172219	Y
7	IC 410-513039/18	300.0	337.190748	50.0	498460.0	1.123969	Y



Calibration

/ 2-Ethylhexyl acrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

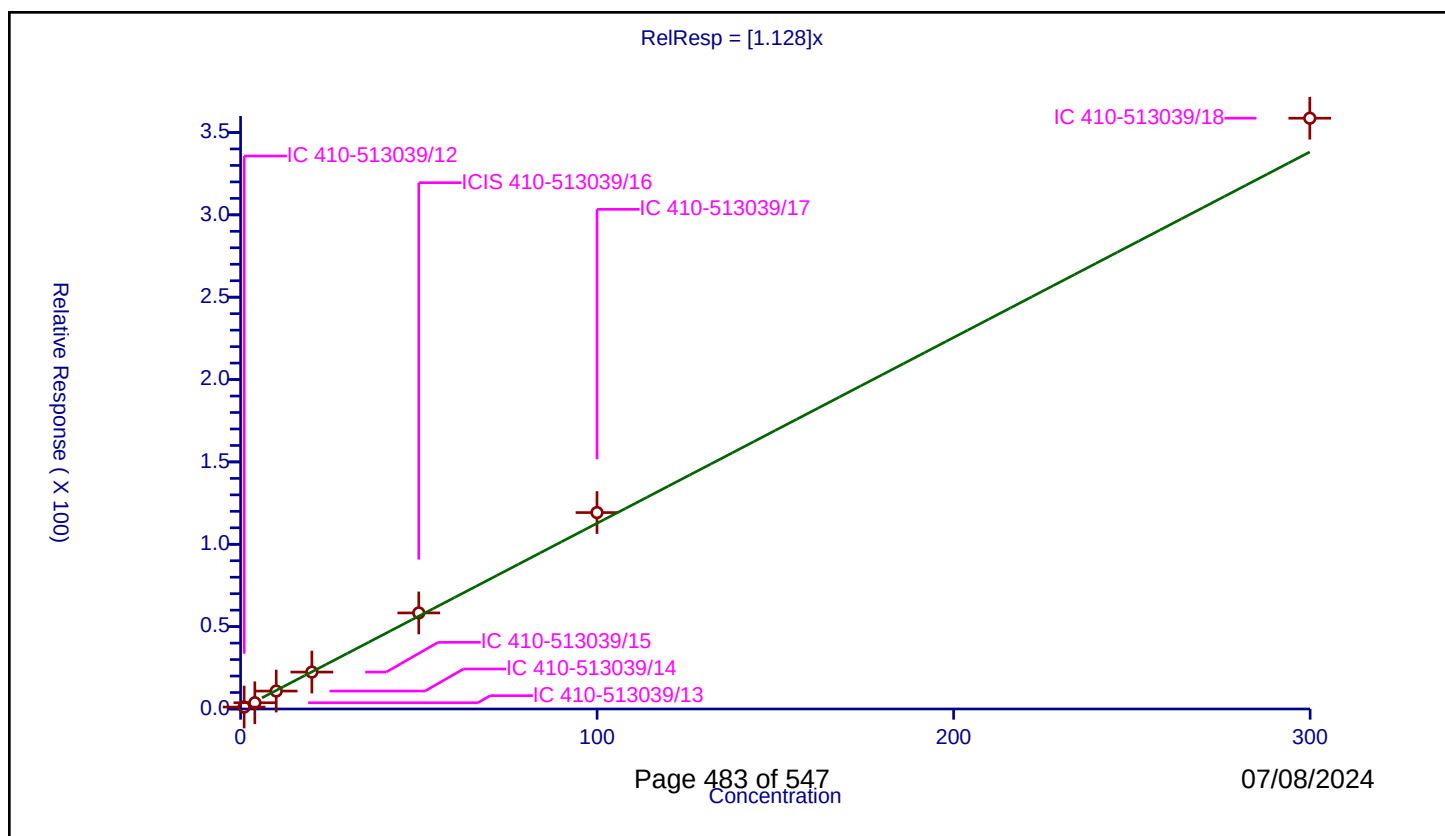
Curve Coefficients

Intercept: 0
Slope: 1.128

Error Coefficients

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	0.9997	1.176263	50.0	434044.0	1.176616	Y
2	IC 410-513039/13	3.9988	3.800426	50.0	448055.0	0.950392	Y
3	IC 410-513039/14	9.997	10.888889	50.0	440100.0	1.089216	Y
4	IC 410-513039/15	19.994	22.421429	50.0	438014.0	1.121408	Y
5	ICIS 410-513039/16	49.985	58.31747	50.0	455968.0	1.166699	Y
6	IC 410-513039/17	99.97	119.246457	50.0	459682.0	1.192822	Y
7	IC 410-513039/18	299.91	358.671308	50.0	498460.0	1.19593	Y

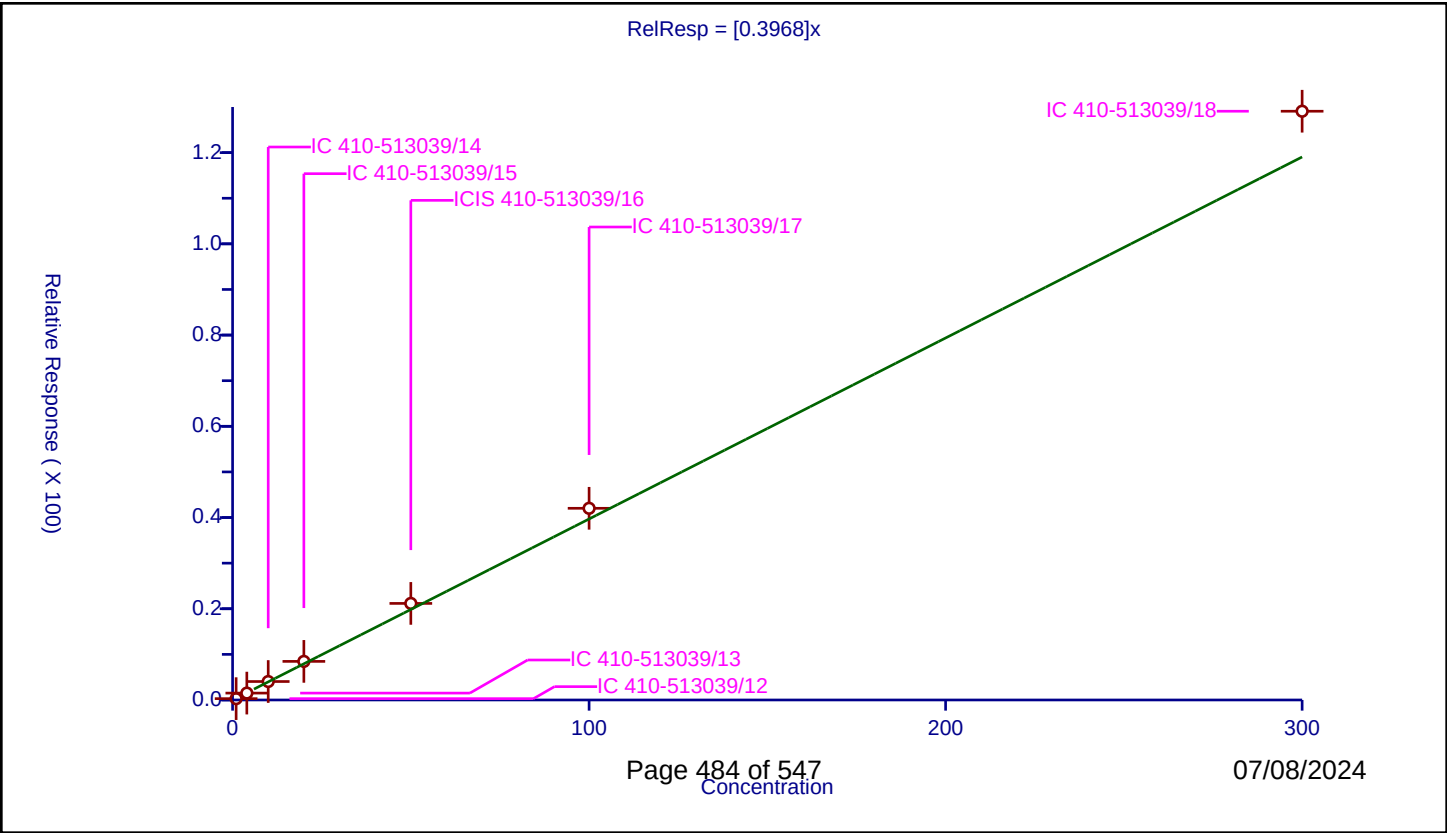


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3968
Error Coefficients	

Relative Standard Deviation: 11.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	0.29755	50.0	434044.0	0.29755	Y
2	IC 410-513039/13	4.0	1.513095	50.0	448055.0	0.378274	Y
3	IC 410-513039/14	10.0	4.048739	50.0	440100.0	0.404874	Y
4	IC 410-513039/15	20.0	8.463656	50.0	438014.0	0.423183	Y
5	ICIS 410-513039/16	50.0	21.169687	50.0	455968.0	0.423394	Y
6	IC 410-513039/17	100.0	42.025248	50.0	459682.0	0.420252	Y
7	IC 410-513039/18	300.0	129.075653	50.0	498460.0	0.430252	Y



Calibration

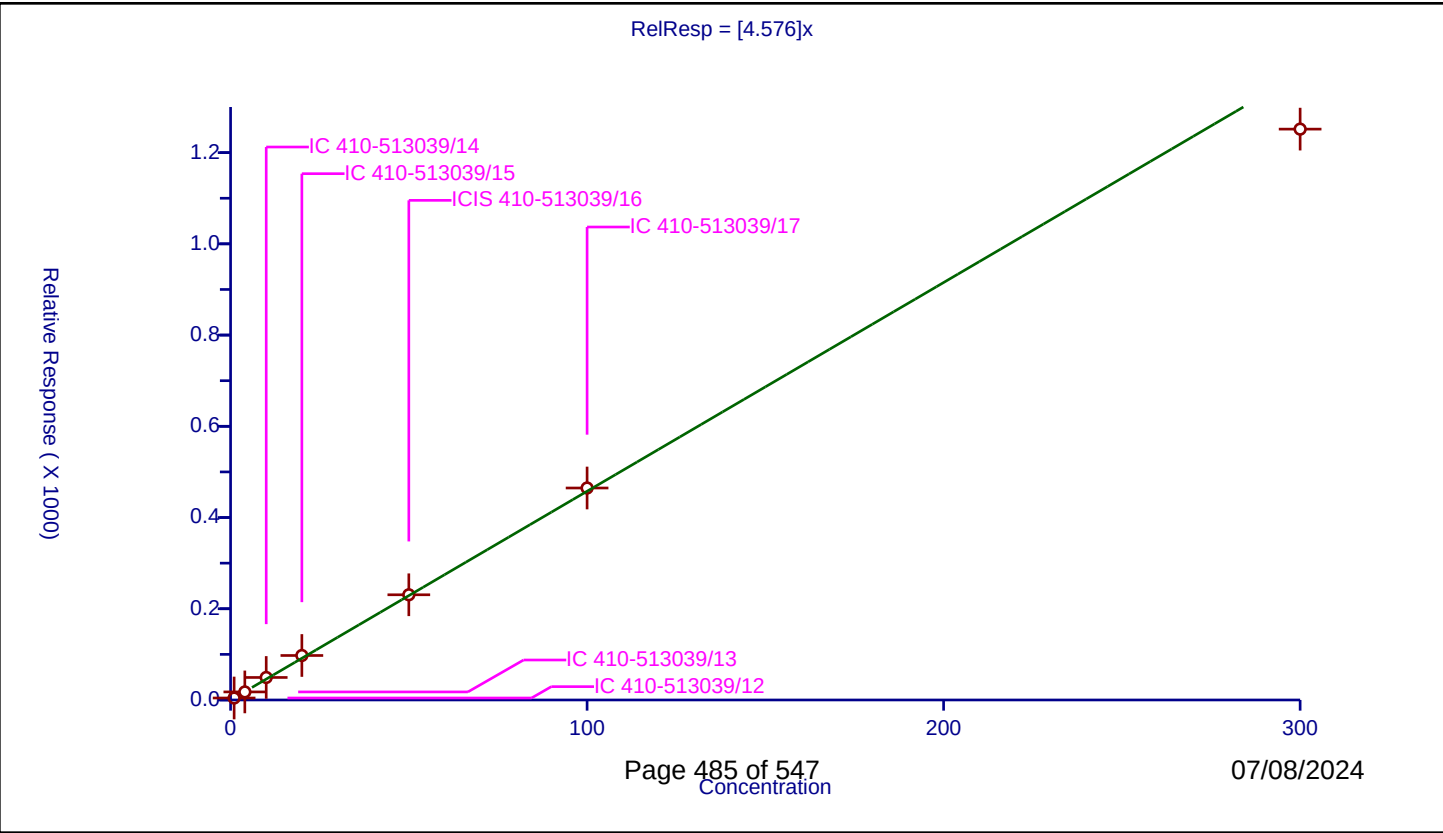
/ Naphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.576
Error Coefficients	

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	4.369373	50.0	434044.0	4.369373	Y
2	IC 410-513039/13	4.0	17.6658	50.0	448055.0	4.41645	Y
3	IC 410-513039/14	10.0	49.356623	50.0	440100.0	4.935662	Y
4	IC 410-513039/15	20.0	97.568	50.0	438014.0	4.8784	Y
5	ICIS 410-513039/16	50.0	230.688338	50.0	455968.0	4.613767	Y
6	IC 410-513039/17	100.0	464.774126	50.0	459682.0	4.647741	Y
7	IC 410-513039/18	300.0	1251.551779	50.0	498460.0	4.171839	Y



Calibration

/ 1,2,3-Trichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

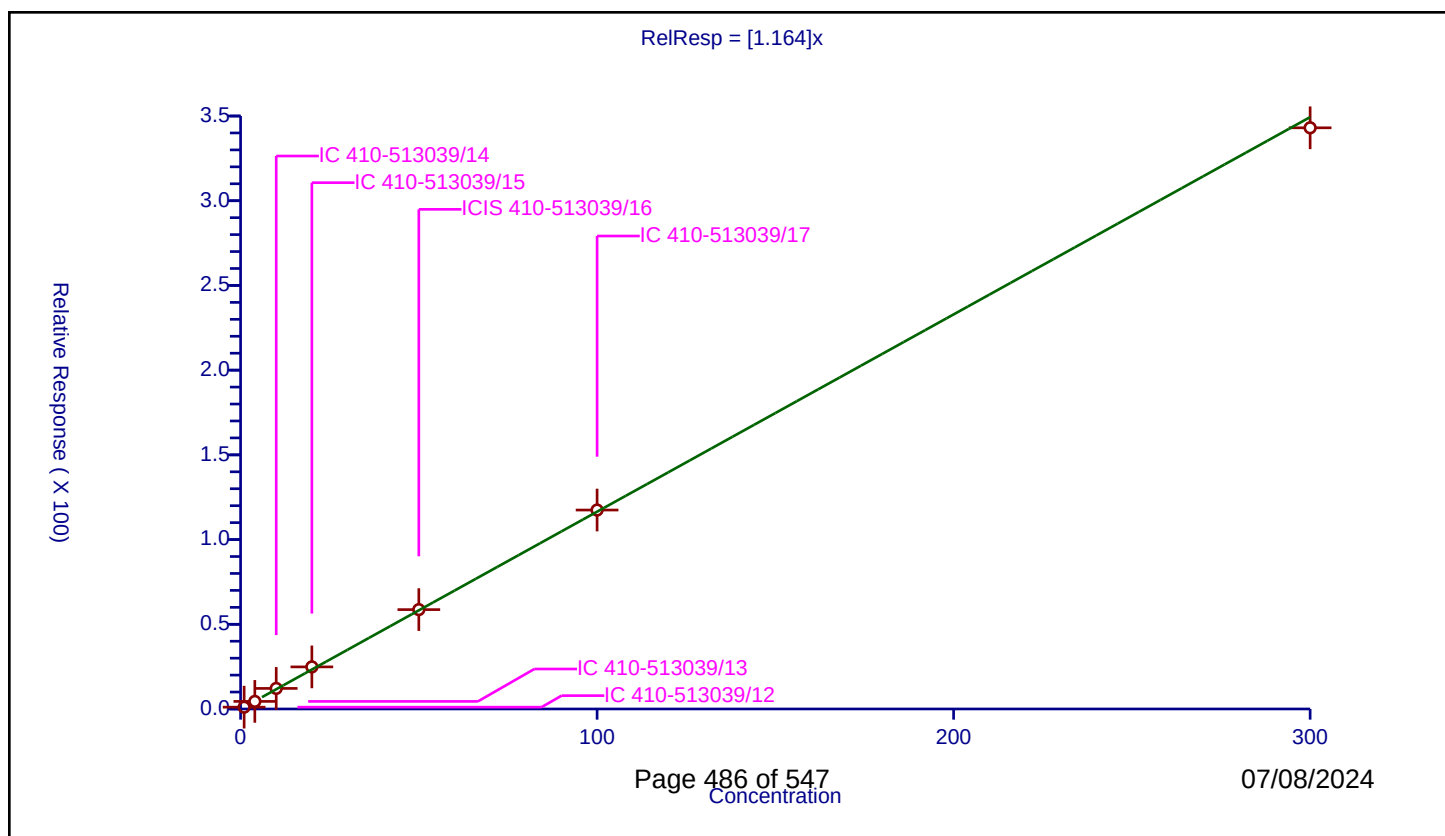
Curve Coefficients

Intercept: 0
Slope: 1.164

Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	1.081688	50.0	434044.0	1.081688	Y
2	IC 410-513039/13	4.0	4.48561	50.0	448055.0	1.121403	Y
3	IC 410-513039/14	10.0	12.149398	50.0	440100.0	1.21494	Y
4	IC 410-513039/15	20.0	24.849548	50.0	438014.0	1.242477	Y
5	ICIS 410-513039/16	50.0	58.650826	50.0	455968.0	1.173017	Y
6	IC 410-513039/17	100.0	117.42944	50.0	459682.0	1.174294	Y
7	IC 410-513039/18	300.0	343.037656	50.0	498460.0	1.143459	Y



Calibration

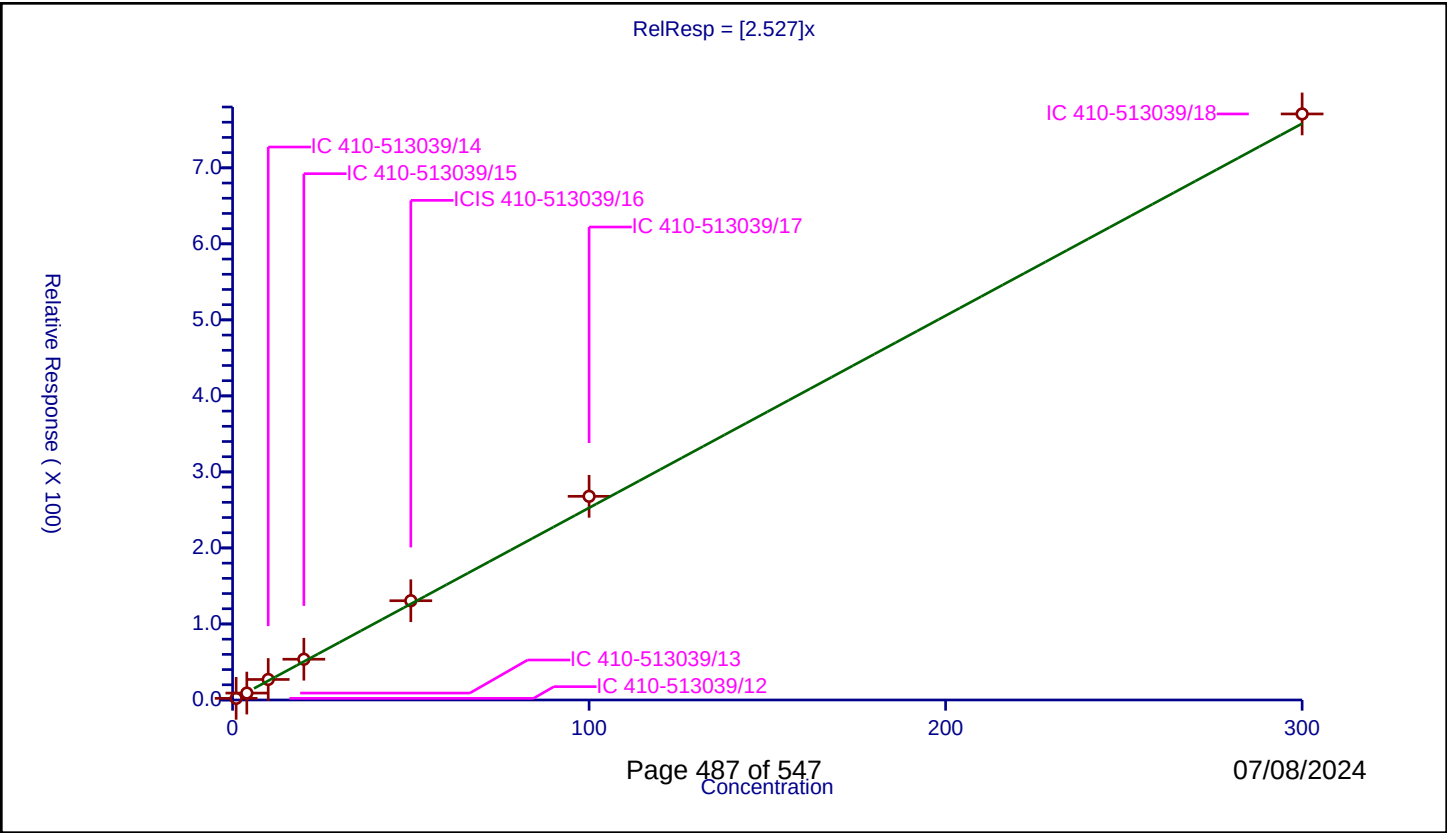
/ 2-Methylnaphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.527
Error Coefficients	

Relative Standard Deviation: 8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-513039/12	1.0	2.17236	50.0	434044.0	2.17236	Y
2	IC 410-513039/13	4.0	9.116961	50.0	448055.0	2.27924	Y
3	IC 410-513039/14	10.0	26.991366	50.0	440100.0	2.699137	Y
4	IC 410-513039/15	20.0	53.613241	50.0	438014.0	2.680662	Y
5	ICIS 410-513039/16	50.0	130.589647	50.0	455968.0	2.611793	Y
6	IC 410-513039/17	100.0	267.906183	50.0	459682.0	2.679062	Y
7	IC 410-513039/18	300.0	770.889239	50.0	498460.0	2.569631	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Lab Sample ID: ICV 410-513039/26

Calibration Date: 06/04/2024 02:07

Instrument ID: 9137

Calib Start Date: 06/03/2024 21:00

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

Calib End Date: 06/03/2024 23:11

Lab File ID: WU03X25.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	0.6897	0.6203	0.1000	18.0	20.0	-10.1	30.0
Chloromethane	Ave	0.6052	0.5208	0.1000	17.2	20.0	-13.9	30.0
Vinyl chloride	Ave	0.6147	0.5634	0.1000	18.3	20.0	-8.4	30.0
1,3-Butadiene	Ave	0.6166	0.5304		17.2	20.0	-14.0	30.0
Bromomethane	Ave	0.4148	0.3752	0.1000	18.1	20.0	-9.5	30.0
Chloroethane	Ave	0.3024	0.2976	0.1000	19.7	20.0	-1.6	30.0
Dichlorofluoromethane	Ave	0.8550	0.7486		17.5	20.0	-12.4	30.0
Trichlorofluoromethane	Ave	0.6903	0.6442	0.1000	18.7	20.0	-6.7	30.0
n-Pentane	Ave	0.5196	0.5104		19.6	20.0	-1.8	30.0
Ethanol	Ave	0.0712	0.0728		1020	1000	2.2	30.0
Freon 123a	Ave	0.4385	0.4036		18.4	20.0	-8.0	30.0
Acrolein	Ave	1.573	2.355		90.0	60.1	49.7*	30.0
1,1-Dichloroethene	Ave	0.3072	0.3336	0.1000	21.7	20.0	8.6	30.0
Acetone	Ave	0.8042	0.7841	0.1000	244	250	-2.5	30.0
Freon 113	Ave	0.3676	0.3405	0.1000	18.5	20.0	-7.4	30.0
2-Propanol	Ave	0.5159	0.5238		152	150	1.5	30.0
Methyl iodide	Ave	0.5869	0.5898		20.1	20.0	0.5	30.0
Carbon disulfide	Ave	1.018	1.001	0.1000	19.7	20.0	-1.7	30.0
Methyl acetate	Ave	0.3190	0.3424	0.1000	21.5	20.0	7.3	30.0
Allyl chloride	Ave	0.4072	0.3896		19.1	20.0	-4.3	30.0
Methylene Chloride	Ave	0.3302	0.3347	0.1000	20.3	20.0	1.4	30.0
t-Butyl alcohol	Ave	1.056	1.177		223	200	11.4	30.0
Acrylonitrile	Ave	0.1881	0.1856		98.7	100	-1.3	30.0
trans-1,2-Dichloroethene	Ave	0.2767	0.2863	0.1000	20.7	20.0	3.5	30.0
Methyl tert-butyl ether	Ave	0.9727	0.9517	0.1000	19.6	20.0	-2.2	30.0
n-Hexane	Ave	0.3908	0.3858		19.7	20.0	-1.3	30.0
1,1-Dichloroethane	Ave	0.4747	0.5046	0.2000	21.3	20.0	6.3	30.0
Isopropyl ether	Ave	0.8777	0.8578		19.5	20.0	-2.3	30.0
2-Chloro-1,3-butadiene	Ave	0.4382	0.4419		20.2	20.0	0.8	30.0
Ethyl t-butyl ether	Ave	0.8909	0.9019		20.2	20.0	1.2	30.0
2-Butanone (MEK)	Ave	0.2493	0.2405	0.1000	241	250	-3.5	30.0
cis-1,2-Dichloroethene	Ave	0.3092	0.3225	0.1000	20.9	20.0	4.3	30.0
2,2-Dichloropropane	Ave	0.5320	0.5579		21.0	20.0	4.9	30.0
Propionitrile	Ave	1.288	1.278		149	150	-0.8	30.0
Methyl acrylate	Ave	0.4569	0.4482		19.6	20.0	-1.9	30.0
Methacrylonitrile	Ave	0.1857	0.1841		149	150	-0.9	30.0
Bromochloromethane	Ave	0.1570	0.1704		21.7	20.0	8.5	30.0
Tetrahydrofuran	Ave	1.173	1.145		97.7	100	-2.3	30.0
Chloroform	Lin2		0.5504	0.2000	20.8	20.0	3.8	30.0
1,1,1-Trichloroethane	Ave	0.5222	0.5526	0.1000	21.2	20.0	5.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No.: _____

Lab Sample ID: ICV 410-513039/26

Calibration Date: 06/04/2024 02:07

Instrument ID: 9137

Calib Start Date: 06/03/2024 21:00

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

Calib End Date: 06/03/2024 23:11

Lab File ID: WU03X25.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Cyclohexane	Ave	0.6030	0.5891	0.1000	19.5	20.0	-2.3	30.0
1,1-Dichloropropene	Ave	0.4085	0.4262		20.9	20.0	4.3	30.0
Carbon tetrachloride	Ave	0.4450	0.4701	0.1000	21.1	20.0	5.6	30.0
Isobutyl alcohol	Ave	0.3552	0.3353		472	500	-5.6	30.0
Benzene	Ave	1.148	1.197	0.5000	20.9	20.0	4.3	30.0
1,2-Dichloroethane	Ave	0.3829	0.3932	0.1000	20.5	20.0	2.7	30.0
t-Amyl methyl ether	Ave	0.9125	0.9320		20.4	20.0	2.1	30.0
n-Heptane	Ave	0.3483	0.3438		19.7	20.0	-1.3	30.0
n-Butanol	Ave	0.2944	0.2583		877	1000	-12.3	30.0
Trichloroethene	Ave	0.3066	0.3138	0.2000	20.5	20.0	2.3	30.0
Ethyl acrylate	Ave	0.4707	0.4237		18.0	20.0	-10.0	30.0
Methylcyclohexane	Ave	0.5729	0.5709	0.1000	19.9	20.0	-0.4	30.0
t-Amyl ethyl ether	Ave	0.4605	0.4338		18.8	20.0	-5.8	30.0
1,2-Dichloropropane	Ave	0.2875	0.3026	0.1000	21.1	20.0	5.3	30.0
Methyl methacrylate	Ave	0.2706	0.2581		19.1	20.0	-4.6	30.0
1,4-Dioxane	Ave	0.0716	0.0708	0.0050	494	500	-1.2	30.0
Dibromomethane	Ave	0.2033	0.2059		20.3	20.0	1.3	30.0
Bromodichloromethane	Ave	0.3543	0.3558	0.2000	20.1	20.0	0.4	30.0
2-Nitropropane	Ave	2.162	1.899		17.6	20.0	-12.2	30.0
2-Chloroethyl vinyl ether	Ave	0.2033	0.1937		19.0	20.0	-4.8	30.0
cis-1,3-Dichloropropene	Ave	0.4354	0.4128	0.2000	19.0	20.0	-5.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4783	0.5007	0.1000	262	250	4.7	30.0
Toluene	Ave	0.9712	0.999	0.4000	20.6	20.0	2.8	30.0
trans-1,3-Dichloropropene	Ave	0.5207	0.5181	0.1000	19.9	20.0	-0.5	30.0
Ethyl methacrylate	Ave	0.6141	0.5875		19.1	20.0	-4.3	30.0
1,1,2-Trichloroethane	Ave	0.3426	0.3539	0.1000	20.7	20.0	3.3	30.0
Tetrachloroethene	Ave	0.4281	0.4527	0.2000	21.2	20.0	5.8	30.0
1,3-Dichloropropane	Ave	0.5517	0.5647		20.5	20.0	2.4	30.0
2-Hexanone	Ave	0.4293	0.4477	0.1000	261	250	4.3	30.0
Dibromochloromethane	Ave	0.3696	0.3730		20.2	20.0	0.9	30.0
1,2-Dibromoethane (EDB)	Ave	0.3626	0.3661	0.1000	20.2	20.0	1.0	30.0
1-Chlorohexane	Ave	0.5359	0.5245		19.6	20.0	-2.1	30.0
Chlorobenzene	Ave	1.040	1.063	0.5000	20.4	20.0	2.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4229	0.4383		20.7	20.0	3.6	30.0
Ethylbenzene	Ave	1.915	2.026	0.1000	21.2	20.0	5.8	30.0
m&p-Xylene	Ave	0.7569	0.7932	0.1000	41.9	40.0	4.8	30.0
n-Butyl acrylate	Ave	0.8550	0.8640		20.2	20.0	1.1	30.0
o-Xylene	Ave	0.8002	0.8373	0.3000	20.9	20.0	4.6	30.0
Styrene	Ave	1.178	1.203	0.3000	20.4	20.0	2.2	30.0
Bromoform	Ave	0.2808	0.2713	0.1000	19.3	20.0	-3.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No.: _____

Lab Sample ID: ICV 410-513039/26

Calibration Date: 06/04/2024 02:07

Instrument ID: 9137

Calib Start Date: 06/03/2024 21:00

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

Calib End Date: 06/03/2024 23:11

Lab File ID: WU03X25.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.991	2.294	0.1000	23.1	20.0	15.3	30.0
Cyclohexanone	Ave	0.2976	0.2498		420	500	-16.1	30.0
1,1,2,2-Tetrachloroethane	Ave	1.094	1.141	0.3000	20.9	20.0	4.3	30.0
Bromobenzene	Ave	0.7707	0.7931		20.6	20.0	2.9	30.0
trans-1,4-Dichloro-2-butene	Ave	0.3194	0.3247		102	100	1.7	30.0
1,2,3-Trichloropropane	Ave	0.3496	0.3664		21.0	20.0	4.8	30.0
N-Propylbenzene	Ave	3.806	4.098		21.5	20.0	7.7	30.0
2-Chlorotoluene	Ave	0.8228	0.8370		20.3	20.0	1.7	30.0
1,3,5-Trimethylbenzene	Ave	2.894	3.037		21.0	20.0	4.9	30.0
4-Chlorotoluene	Ave	0.7750	0.7886		20.4	20.0	1.8	30.0
tert-Butylbenzene	Ave	0.5658	0.5970		21.1	20.0	5.5	30.0
1,2,4-Trimethylbenzene	Ave	2.962	3.060		20.7	20.0	3.3	30.0
sec-Butylbenzene	Ave	3.523	3.762		21.4	20.0	6.8	30.0
1,3-Dichlorobenzene	Ave	1.505	1.549	0.6000	20.6	20.0	2.9	30.0
p-Isopropyltoluene	Ave	3.141	3.233		20.6	20.0	2.9	30.0
1,4-Dichlorobenzene	Ave	1.531	1.570	0.5000	20.5	20.0	2.6	30.0
1,2,3-Trimethylbenzene	Ave	3.128	3.115		19.9	20.0	-0.4	30.0
Benzyl chloride	Ave	2.207	2.235		20.3	20.0	1.3	30.0
1,3-Diethylbenzene	Ave	1.866	1.949		20.9	20.0	4.4	30.0
1,4-Diethylbenzene	Ave	1.908	1.993		20.9	20.0	4.5	30.0
n-Butylbenzene	Ave	1.472	1.541		20.9	20.0	4.7	30.0
1,2-Dichlorobenzene	Ave	1.610	1.672	0.4000	20.8	20.0	3.9	30.0
1,2-Diethylbenzene	Ave	1.549	1.564		20.2	20.0	0.9	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.3374	0.3294	0.0500	19.5	20.0	-2.4	30.0
1,3,5-Trichlorobenzene	Ave	1.149	1.216		21.2	20.0	5.8	30.0
1,2,4-Trichlorobenzene	Ave	1.155	1.228	0.2000	21.3	20.0	6.3	30.0
2-Ethylhexyl acrylate	Ave	1.128	1.013		18.0	20.0	-10.1	30.0
Hexachlorobutadiene	Ave	0.3968	0.4256		21.4	20.0	7.2	30.0
Naphthalene	Ave	4.576	4.867		21.3	20.0	6.4	30.0
1,2,3-Trichlorobenzene	Ave	1.164	1.240		21.3	20.0	6.5	30.0
2-Methylnaphthalene	Ave	2.527	2.689		21.3	20.0	6.4	30.0
Dibromofluoromethane (Surr)	Ave	0.2491	0.2511		50.4	50.0	0.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0624	0.0641		51.4	50.0	2.8	30.0
Toluene-d8 (Surr)	Ave	1.369	1.385		50.6	50.0	1.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4971	0.4942		49.7	50.0	-0.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X25.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 04-Jun-2024 02:07:30 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0115635-026
 Misc. Info.: LG ICV
 Operator ID: mec29284 Instrument ID: 9137
 Sublist:
 Method: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-Jun-2024 13:27:06 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1676

First Level Reviewer: UKEK

Date: 04-Jun-2024 13:33:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.024	2.027	-0.003	99	234899	20.0	18.0	
7 Chloromethane	50	2.226	2.229	-0.003	99	197212	20.0	17.2	
8 Vinyl chloride	62	2.345	2.354	-0.009	98	213338	20.0	18.3	
9 Butadiene	39	2.380	2.377	0.003	92	200836	20.0	17.2	
11 Bromomethane	94	2.717	2.720	-0.003	91	142098	20.0	18.1	
12 Chloroethane	64	2.794	2.800	-0.006	100	112681	20.0	19.7	
13 Dichlorofluoromethane	67	3.070	3.073	-0.003	97	283494	20.0	17.5	
14 Trichlorofluoromethane	101	3.128	3.137	-0.009	98	243925	20.0	18.7	
15 Pentane	43	3.163	3.160	0.003	97	193263	20.0	19.6	
17 Ethanol	45	3.327	3.285	0.042	89	89146	999.9	1022.0	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.490	3.494	-0.004	92	152818	20.0	18.4	
19 Acrolein	56	3.564	3.574	-0.010	98	173346	60.1	90.0	
21 1,1-Dichloroethene	96	3.731	3.728	0.003	94	126316	20.0	21.7	
20 Acetone	58	3.747	3.750	-0.003	100	240006	250.0	243.7	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.750	3.757	-0.007	67	128946	20.0	18.5	
25 Iodomethane	142	3.936	3.930	0.006	99	223362	20.0	20.1	
23 Isopropyl alcohol	45	3.933	3.930	0.003	43	96193	150.0	152.3	
26 Carbon disulfide	76	4.071	4.068	0.003	99	379048	20.0	19.7	
28 Methyl acetate	43	4.183	4.193	-0.010	93	129644	20.0	21.5	
27 3-Chloro-1-propene	41	4.209	4.216	-0.007	90	147518	20.0	19.1	
30 Methylene Chloride	84	4.427	4.424	0.003	90	126734	20.0	20.3	
* 32 t-Butyl alcohol-d10 (IS)	65	4.517	4.453	0.064	68	306095	250.0	250.0	
33 2-Methyl-2-propanol	59	4.633	4.575	0.058	97	288120	200.0	222.8	
34 Acrylonitrile	53	4.780	4.777	0.003	99	351468	100.0	98.7	
36 Methyl tert-butyl ether	73	4.835	4.832	0.003	94	360374	20.0	19.6	
35 trans-1,2-Dichloroethene	96	4.828	4.835	-0.007	99	108412	20.0	20.7	
37 Hexane	57	5.265	5.265	0.000	91	146109	20.0	19.7	
38 1,1-Dichloroethane	63	5.505	5.509	-0.004	96	191072	20.0	21.3	
40 Isopropyl ether	45	5.573	5.563	0.010	92	324827	20.0	19.5	
41 2-Chloro-1,3-butadiene	53	5.608	5.615	-0.007	91	167326	20.0	20.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Tert-butyl ethyl ether	59	6.096	6.099	-0.003	97	341534	20.0	20.2	
44 2-Butanone (MEK)	43	6.317	6.324	-0.007	99	1138559	250.0	241.2	
43 cis-1,2-Dichloroethene	96	6.343	6.343	0.000	81	122141	20.0	20.9	
45 2,2-Dichloropropane	77	6.365	6.366	-0.001	87	211274	20.0	21.0	
47 Propionitrile	54	6.426	6.417	0.009	97	234762	150.0	148.8	
48 Methyl acrylate	55	6.439	6.443	-0.004	98	169534	20.0	19.6	
49 Methacrylonitrile	67	6.635	6.635	0.000	91	522984	150.0	148.7	
50 Chlorobromomethane	128	6.670	6.670	0.000	87	64508	20.0	21.7	
51 Tetrahydrofuran	71	6.677	6.690	-0.013	77	140223	100.0	97.7	
52 Chloroform	83	6.828	6.831	-0.003	94	208410	20.0	20.8	
\$ 54 Dibromofluoromethane (Surr)	113	7.043	7.043	0.000	93	237711	50.0	50.4	
55 1,1,1-Trichloroethane	97	7.046	7.052	-0.006	99	209250	20.0	21.2	
56 Cyclohexane	56	7.152	7.149	0.003	92	223096	20.0	19.5	
58 Carbon tetrachloride	117	7.264	7.261	0.003	86	178019	20.0	21.1	
57 1,1-Dichloropropene	75	7.261	7.264	-0.003	93	161404	20.0	20.9	
59 Isobutyl alcohol	41	7.447	7.428	0.019	91	205294	500.0	472.0	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.505	7.505	0.000	73	60726	50.0	51.4	
61 Benzene	78	7.530	7.530	0.000	97	453291	20.0	20.9	
62 1,2-Dichloroethane	62	7.601	7.604	-0.003	98	148883	20.0	20.5	
64 Tert-amyl methyl ether	73	7.716	7.717	0.000	98	352940	20.0	20.4	
* 65 Fluorobenzene (IS)	96	7.931	7.935	-0.004	98	946690	50.0	50.0	
66 n-Heptane	43	7.935	7.938	-0.003	46	130178	20.0	19.7	
67 n-Butanol	56	8.307	8.301	0.006	91	316308	1000.0	877.4	
68 Trichloroethene	95	8.406	8.406	0.000	97	118826	20.0	20.5	
69 Ethyl acrylate	55	8.522	8.525	-0.003	99	160453	20.0	18.0	
70 Methylcyclohexane	83	8.714	8.714	0.000	91	216188	20.0	19.9	
72 2-ethoxy-2-methyl butane	87	8.743	8.750	-0.007	90	164280	20.0	18.8	
71 1,2-Dichloropropane	63	8.746	8.753	-0.007	73	114595	20.0	21.1	
74 Methyl methacrylate	69	8.824	8.827	-0.003	91	97730	20.0	19.1	
75 1,4-Dioxane	88	8.827	8.833	-0.006	64	43327	500.0	494.2	
73 Dibromomethane	93	8.862	8.859	0.003	97	77962	20.0	20.3	
77 Dichlorobromomethane	83	9.093	9.090	0.003	98	134719	20.0	20.1	
78 2-Nitropropane	41	9.363	9.369	-0.006	99	46491	20.0	17.6	
79 2-Chloroethyl vinyl ether	63	9.443	9.443	0.000	93	73340	20.0	19.0	
81 cis-1,3-Dichloropropene	75	9.623	9.623	0.000	95	156306	20.0	19.0	
83 4-Methyl-2-pentanone (MIBK)	43	9.796	9.796	0.000	96	2369876	250.0	261.7	
\$ 84 Toluene-d8 (Surr)	98	9.921	9.921	0.000	93	980765	50.0	50.6	
85 Toluene	92	9.995	9.995	0.000	98	282859	20.0	20.6	
86 trans-1,3-Dichloropropene	75	10.245	10.245	0.000	93	146739	20.0	19.9	
87 Ethyl methacrylate	69	10.303	10.306	-0.003	89	166386	20.0	19.1	
88 1,1,2-Trichloroethane	97	10.447	10.447	0.000	91	100237	20.0	20.7	
90 Tetrachloroethene	166	10.527	10.528	-0.001	96	128225	20.0	21.2	
91 1,3-Dichloropropane	76	10.611	10.611	0.000	90	159946	20.0	20.5	
94 2-Hexanone	43	10.659	10.659	0.000	95	1584817	250.0	260.7	
96 Chlorodibromomethane	129	10.816	10.816	0.000	89	105650	20.0	20.2	
98 Ethylene Dibromide	107	10.925	10.929	-0.004	98	103699	20.0	20.2	
* 101 Chlorobenzene-d5 (IS)	117	11.352	11.352	0.000	85	708039	50.0	50.0	
103 1-Chlorohexane	91	11.359	11.359	0.000	97	148547	20.0	19.6	
102 Chlorobenzene	112	11.378	11.378	0.000	96	300961	20.0	20.4	
104 1,1,1,2-Tetrachloroethane	131	11.458	11.458	0.000	95	124139	20.0	20.7	
105 Ethylbenzene	91	11.461	11.461	0.000	98	573916	20.0	21.2	
106 m-Xylene & p-Xylene	106	11.574	11.574	0.000	98	449284	40.0	41.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 n-Butyl acrylate	55	11.850	11.846	0.004	96	244267	20.0	20.2	
108 o-Xylene	106	11.904	11.901	0.003	96	237140	20.0	20.9	
109 Styrene	104	11.917	11.917	0.000	94	340816	20.0	20.4	
110 Bromoform	173	12.074	12.074	0.000	96	76846	20.0	19.3	
111 Isopropylbenzene	105	12.199	12.199	0.000	96	649828	20.0	23.1	
113 Cyclohexanone	55	12.283	12.286	-0.003	92	152891	500.0	419.5	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.344	12.344	0.000	90	349888	50.0	49.7	
116 1,1,2,2-Tetrachloroethane	83	12.446	12.443	0.003	94	195141	20.0	20.9	
115 Bromobenzene	156	12.462	12.462	0.000	95	135599	20.0	20.6	
119 trans-1,4-Dichloro-2-butene	53	12.472	12.469	0.003	95	277558	100.0	101.7	
118 1,2,3-Trichloropropane	110	12.491	12.495	-0.004	84	62647	20.0	21.0	
120 N-Propylbenzene	91	12.527	12.527	0.000	98	700697	20.0	21.5	
121 2-Chlorotoluene	126	12.607	12.604	0.003	97	143105	20.0	20.3	
122 1,3,5-Trimethylbenzene	105	12.661	12.661	0.000	94	519289	20.0	21.0	
123 4-Chlorotoluene	126	12.700	12.697	0.003	97	134828	20.0	20.4	
125 tert-Butylbenzene	134	12.905	12.905	0.000	93	102074	20.0	21.1	
127 1,2,4-Trimethylbenzene	105	12.947	12.947	0.000	97	523212	20.0	20.7	
128 sec-Butylbenzene	105	13.069	13.066	0.003	94	643201	20.0	21.4	
131 1,3-Dichlorobenzene	146	13.168	13.165	0.003	98	264803	20.0	20.6	
132 4-Isopropyltoluene	119	13.172	13.172	0.000	97	552812	20.0	20.6	
* 133 1,4-Dichlorobenzene-d4	152	13.223	13.220	0.003	94	427433	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.239	13.239	0.000	95	268507	20.0	20.5	
148 1,2,3-Trimethylbenzene	105	13.249	13.252	-0.003	98	532653	20.0	19.9	
170 Benzyl chloride	91	13.319	13.316	0.003	98	382157	20.0	20.3	
171 1,3-Diethylbenzene	119	13.371	13.371	0.000	95	333195	20.0	20.9	
172 p-Diethylbenzene	119	13.444	13.444	0.000	94	340826	20.0	20.9	
173 n-Butylbenzene	92	13.464	13.467	-0.003	97	263401	20.0	20.9	
174 1,2-Dichlorobenzene	146	13.502	13.502	0.000	98	285855	20.0	20.8	
175 o-diethylbenzene	119	13.518	13.518	0.000	95	267342	20.0	20.2	
176 1,2-Dibromo-3-Chloropropane	75	14.044	14.044	0.000	84	56312	20.0	19.5	
177 1,3,5-Trichlorobenzene	180	14.166	14.166	0.000	97	207905	20.0	21.2	
179 1,2,4-Trichlorobenzene	180	14.590	14.590	0.000	94	209977	20.0	21.3	
181 2-Ethylhexyl acrylate	55	14.644	14.645	-0.001	81	173370	20.0	18.0	
180 Hexachlorobutadiene	225	14.670	14.670	0.000	96	72760	20.0	21.4	
182 Naphthalene	128	14.776	14.776	0.000	97	832148	20.0	21.3	
183 1,2,3-Trichlorobenzene	180	14.920	14.921	0.000	94	212040	20.0	21.3	
184 2-Methylnaphthalene	142	15.569	15.569	0.000	92	459817	20.0	21.3	

QC Flag Legend

Processing Flags

Reagents:

MSV_LCS_VOC#1_00169	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00174	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00172	Amount Added: 50.00	Units: uL	
MSV_LCS_CYC_00008	Amount Added: 50.00	Units: uL	
MSV_LCS_ETOH_00006	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00201	Amount Added: 50.00	Units: uL	
MSV_Q_Acr_Std_00007	Amount Added: 2.00	Units: uL	
MSV_Cent_ISSS_00026	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 04-Jun-2024 13:37:34

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X25.D

Injection Date: 04-Jun-2024 02:07:30

Instrument ID: 9137

Operator ID: mec29284

Lims ID: ICV

Worklist Smp#: 26

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

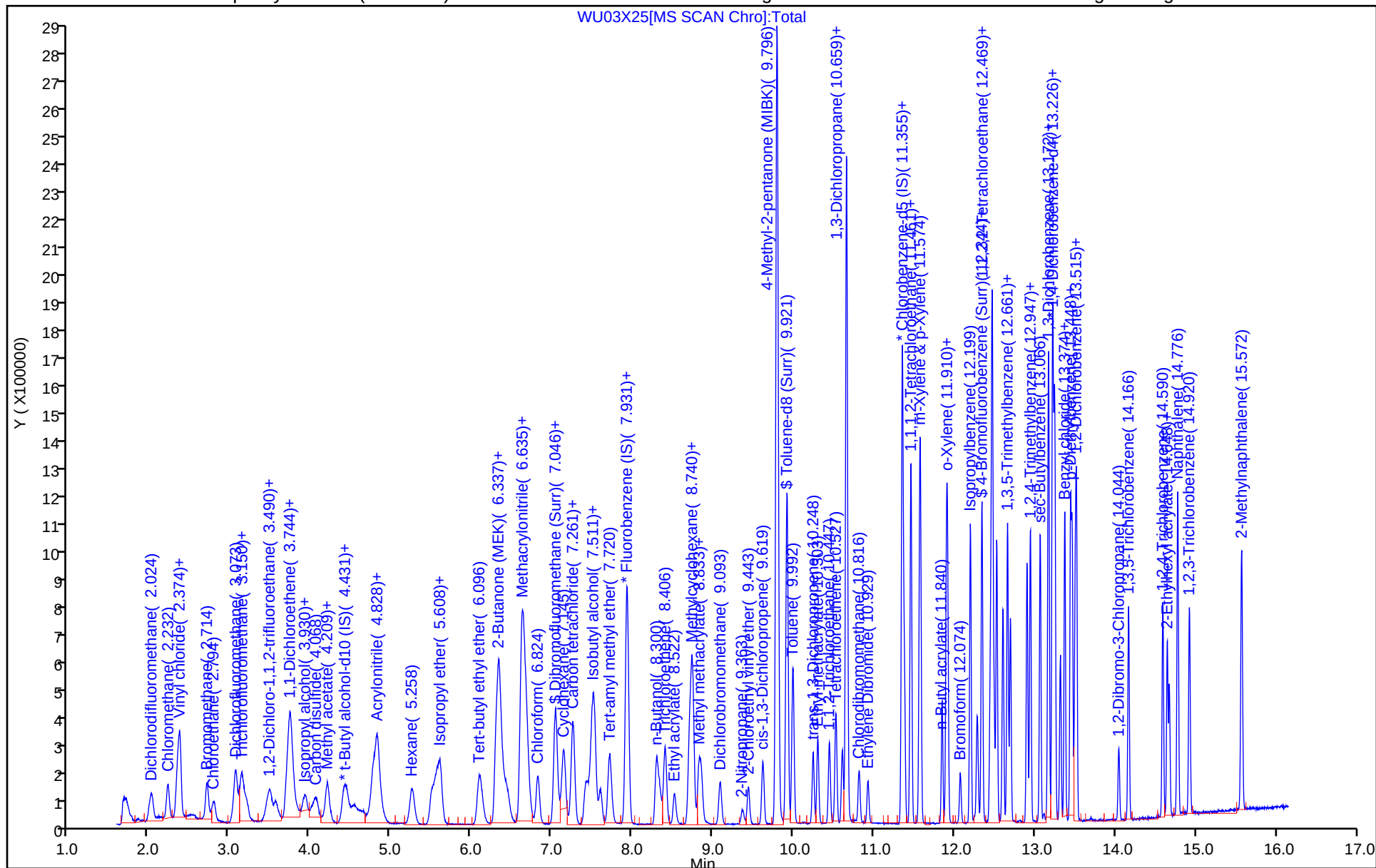
ALS Bottle#: 25

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Lab Sample ID: ICV 410-513267/4

Calibration Date: 06/04/2024 12:03

Instrument ID: 9137

Calib Start Date: 06/03/2024 21:00

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

Calib End Date: 06/03/2024 23:11

Lab File ID: WU04X03.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acrolein	Ave	1.573	1.562		149	150	-0.7	30.0
Dibromofluoromethane (Surr)	Ave	0.2491	0.2565		51.5	50.0	3.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0624	0.0635		50.9	50.0	1.8	30.0
Toluene-d8 (Surr)	Ave	1.369	1.429		52.2	50.0	4.4	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4971	0.5063		50.9	50.0	1.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240604-115694.b\WU04X03.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 04-Jun-2024 12:03:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0115694-004
Misc. Info.: ICV Acrolein
Operator ID: knk41612 Instrument ID: 9137
Sublist:
Method: \\chromfs\Lancaster\ChromData\9137\20240604-115694.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 04-Jun-2024 12:41:17 Calib Date: 03-Jun-2024 23:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1682

First Level Reviewer: DVW2

Date: 04-Jun-2024 12:59:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Acrolein	56	3.586	3.580	0.006	99	261420	150.3	149.2	
* 32 t-Butyl alcohol-d10 (IS)	65	4.488	4.431	0.057	26	278342	250.0	250.0	
\$ 54 Dibromofluoromethane (Surr)	113	7.052	7.046	0.006	93	261950	50.0	51.5	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.511	7.498	0.013	69	64879	50.0	50.9	
* 65 Fluorobenzene (IS)	96	7.938	7.935	0.003	99	1021212	50.0	50.0	
\$ 84 Toluene-d8 (Surr)	98	9.921	9.924	-0.003	94	978662	50.0	52.2	
* 101 Chlorobenzene-d5 (IS)	117	11.355	11.355	0.000	86	684953	50.0	50.0	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.344	12.344	0.000	91	346797	50.0	50.9	
* 133 1,4-Dichlorobenzene-d4	152	13.223	13.220	0.003	95	432431	50.0	50.0	

QC Flag Legend

Processing Flags

Reagents:

MSV_LCS_ACR_00030

Amount Added: 2.00

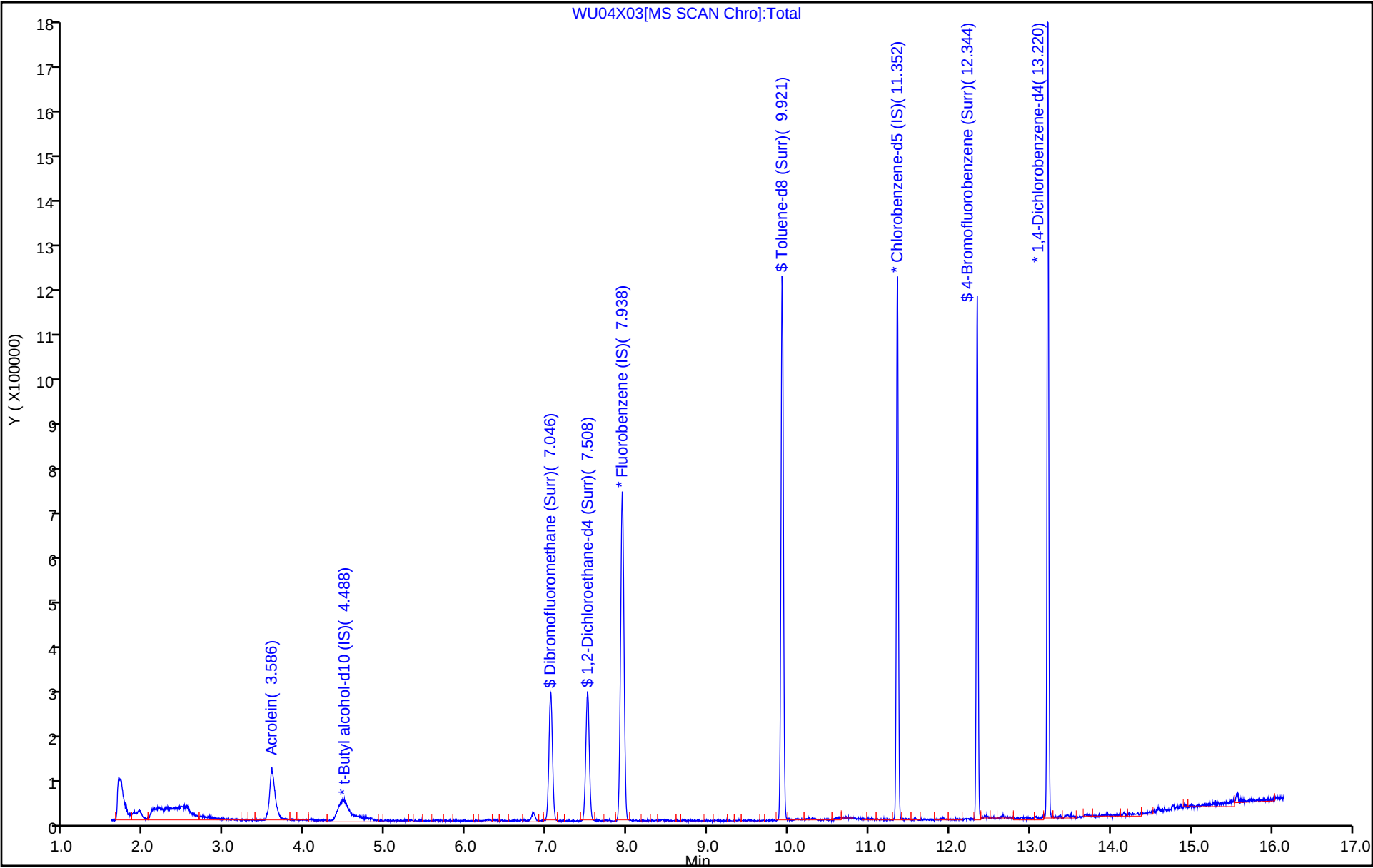
Units: uL

MSV_Cent_ISSS_00026

Amount Added: 5.00

Units: uL

Run Reagent



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Lab Sample ID: CCVIS 410-525333/3

Calibration Date: 07/07/2024 20:09

Instrument ID: 9137

Calib Start Date: 06/03/2024 21:00

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

Calib End Date: 06/03/2024 23:11

Lab File ID: WL07X02.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	0.6897	0.5360	0.1000	38.9	50.0	-22.3*	20.0
Chloromethane	Ave	0.6052	0.4924	0.1000	40.7	50.0	-18.6	20.0
Vinyl chloride	Ave	0.6147	0.4921	0.1000	40.0	50.0	-19.9	20.0
1,3-Butadiene	Ave	0.6166	0.6505		52.8	50.0	5.5	20.0
Bromomethane	Ave	0.4148	0.3596	0.1000	43.3	50.0	-13.3	20.0
Chloroethane	Ave	0.3024	0.2826	0.1000	46.7	50.0	-6.5	20.0
Dichlorofluoromethane	Ave	0.8550	0.7814		45.7	50.0	-8.6	20.0
Trichlorofluoromethane	Ave	0.6903	0.6202	0.1000	44.9	50.0	-10.2	20.0
n-Pentane	Ave	0.5196	0.4970		47.8	50.0	-4.4	20.0
Freon 123a	Ave	0.4385	0.4091		46.6	50.0	-6.7	20.0
Acrolein	Ave	1.573	1.694		539	501	7.6	20.0
1,1-Dichloroethene	Ave	0.3072	0.3070	0.1000	50.0	50.0	-0.0	20.0
Freon 113	Ave	0.3676	0.3399	0.1000	46.2	50.0	-7.5	20.0
Acetone	Ave	0.8042	1.054	0.1000	131	100	31.1*	20.0
Methyl iodide	Ave	0.5869	0.5883		50.1	50.0	0.3	20.0
2-Propanol	Ave	0.5159	0.3494		169	250	-32.3*	20.0
Carbon disulfide	Ave	1.018	1.021	0.1000	50.2	50.0	0.4	20.0
Methyl acetate	Ave	0.3190	0.3267	0.1000	51.2	50.0	2.4	20.0
Allyl chloride	Ave	0.4072	0.4246		52.1	50.0	4.3	20.0
Methylene Chloride	Ave	0.3302	0.3381	0.1000	51.2	50.0	2.4	20.0
t-Butyl alcohol	Ave	1.056	0.8643		205	250	-18.2	20.0
Acrylonitrile	Ave	0.1881	0.1999		133	125	6.3	20.0
Methyl tert-butyl ether	Ave	0.9727	0.9003	0.1000	46.3	50.0	-7.4	20.0
trans-1,2-Dichloroethene	Ave	0.2767	0.3102	0.1000	56.1	50.0	12.1	20.0
n-Hexane	Ave	0.3908	0.3356		42.9	50.0	-14.1	20.0
1,1-Dichloroethane	Ave	0.4747	0.4976	0.2000	52.4	50.0	4.8	20.0
Isopropyl ether	Ave	0.8777	0.8343		47.5	50.0	-4.9	20.0
2-Chloro-1,3-butadiene	Ave	0.4382	0.4135		47.2	50.0	-5.6	20.0
Ethyl t-butyl ether	Ave	0.8909	0.7941		44.6	50.0	-10.9	20.0
2-Butanone (MEK)	Ave	0.2493	0.2466	0.1000	98.9	100	-1.1	20.0
cis-1,2-Dichloroethene	Ave	0.3092	0.3189	0.1000	51.6	50.0	3.2	20.0
2,2-Dichloropropane	Ave	0.5320	0.4572		43.0	50.0	-14.1	20.0
Propionitrile	Ave	1.288	1.429		277	250	10.9	20.0
Methacrylonitrile	Ave	0.1857	0.1771		119	125	-4.7	20.0
Bromochloromethane	Ave	0.1570	0.1685		53.7	50.0	7.4	20.0
Tetrahydrofuran	Ave	1.173	1.248		266	250	6.4	20.0
Chloroform	Lin2		0.5056	0.2000	50.1	50.0	0.3	20.0
1,1,1-Trichloroethane	Ave	0.5222	0.4931	0.1000	47.2	50.0	-5.6	20.0
Cyclohexane	Ave	0.6030	0.5329	0.1000	44.2	50.0	-11.6	20.0
1,1-Dichloropropene	Ave	0.4085	0.3838		47.0	50.0	-6.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Lab Sample ID: CCVIS 410-525333/3

Calibration Date: 07/07/2024 20:09

Instrument ID: 9137

Calib Start Date: 06/03/2024 21:00

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

Calib End Date: 06/03/2024 23:11

Lab File ID: WL07X02.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	0.4450	0.4227	0.1000	47.5	50.0	-5.0	20.0
Isobutyl alcohol	Ave	0.3552	0.3491		614	625	-1.7	20.0
Benzene	Ave	1.148	1.135	0.5000	49.4	50.0	-1.1	20.0
1,2-Dichloroethane	Ave	0.3829	0.3809	0.1000	49.7	50.0	-0.5	20.0
t-Amyl methyl ether	Ave	0.9125	0.8130		44.5	50.0	-10.9	20.0
n-Heptane	Ave	0.3483	0.3077		44.2	50.0	-11.7	20.0
n-Butanol	Ave	0.2944	0.2366		502	625	-19.7	20.0
Trichloroethene	Ave	0.3066	0.2893	0.2000	47.2	50.0	-5.7	20.0
Methylcyclohexane	Ave	0.5729	0.5005	0.1000	43.7	50.0	-12.6	20.0
t-Amyl ethyl ether	Ave	0.4605	0.4200		45.6	50.0	-8.8	20.0
1,2-Dichloropropane	Ave	0.2875	0.2762	0.1000	48.0	50.0	-3.9	20.0
Methyl methacrylate	Ave	0.2706	0.2371		43.8	50.0	-12.4	20.0
1,4-Dioxane	Ave	0.0716	0.0762	0.0050	665	625	6.5	20.0
Dibromomethane	Ave	0.2033	0.1958		48.2	50.0	-3.7	20.0
Bromodichloromethane	Ave	0.3543	0.3296	0.2000	46.5	50.0	-7.0	20.0
2-Nitropropane	Ave	2.162	1.879		217	250	-13.1	20.0
2-Chloroethyl vinyl ether	Ave	0.2033	0.1651		40.6	50.0	-18.8	20.0
cis-1,3-Dichloropropene	Ave	0.4354	0.3750	0.2000	43.1	50.0	-13.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4783	0.4801	0.1000	100	100	0.4	20.0
Toluene	Ave	0.9712	0.8873	0.4000	45.7	50.0	-8.6	20.0
trans-1,3-Dichloropropene	Ave	0.5207	0.4440	0.1000	42.6	50.0	-14.7	20.0
Ethyl methacrylate	Ave	0.6141	0.5116		41.7	50.0	-16.7	20.0
1,1,2-Trichloroethane	Ave	0.3426	0.3409	0.1000	49.7	50.0	-0.5	20.0
Tetrachloroethene	Ave	0.4281	0.4022	0.2000	47.0	50.0	-6.0	20.0
1,3-Dichloropropane	Ave	0.5517	0.5382		48.8	50.0	-2.5	20.0
2-Hexanone	Ave	0.4293	0.4433	0.1000	103	100	3.2	20.0
Dibromochloromethane	Ave	0.3696	0.3706		50.1	50.0	0.3	20.0
1,2-Dibromoethane (EDB)	Ave	0.3626	0.3543	0.1000	48.9	50.0	-2.3	20.0
1-Chlorohexane	Ave	0.5359	0.4305		40.2	50.0	-19.7	20.0
Chlorobenzene	Ave	1.040	1.009	0.5000	48.5	50.0	-3.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4229	0.4105		48.5	50.0	-2.9	20.0
Ethylbenzene	Ave	1.915	1.803	0.1000	47.1	50.0	-5.9	20.0
m&p-Xylene	Ave	0.7569	0.7149	0.1000	94.5	100	-5.5	20.0
o-Xylene	Ave	0.8002	0.7522	0.3000	47.0	50.0	-6.0	20.0
Styrene	Ave	1.178	1.095	0.3000	46.5	50.0	-7.0	20.0
Bromoform	Ave	0.2808	0.2748	0.1000	48.9	50.0	-2.1	20.0
Isopropylbenzene	Ave	1.991	1.795	0.1000	45.1	50.0	-9.8	20.0
1,1,2,2-Tetrachloroethane	Ave	1.094	1.116	0.3000	51.0	50.0	2.0	20.0
Bromobenzene	Ave	0.7707	0.7429		48.2	50.0	-3.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3194	0.2070		81.0	125	-35.2*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Lab Sample ID: CCVIS 410-525333/3

Calibration Date: 07/07/2024 20:09

Instrument ID: 9137

Calib Start Date: 06/03/2024 21:00

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

Calib End Date: 06/03/2024 23:11

Lab File ID: WL07X02.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.3496	0.3546		50.7	50.0	1.4	20.0
N-Propylbenzene	Ave	3.806	3.530		46.4	50.0	-7.2	20.0
2-Chlorotoluene	Ave	0.8228	0.7578		46.1	50.0	-7.9	20.0
1,3,5-Trimethylbenzene	Ave	2.894	2.647		45.7	50.0	-8.5	20.0
4-Chlorotoluene	Ave	0.7750	0.7164		46.2	50.0	-7.6	20.0
tert-Butylbenzene	Ave	0.5658	0.5015		44.3	50.0	-11.4	20.0
1,2,4-Trimethylbenzene	Ave	2.962	2.692		45.5	50.0	-9.1	20.0
sec-Butylbenzene	Ave	3.523	3.211		45.6	50.0	-8.8	20.0
1,3-Dichlorobenzene	Ave	1.505	1.426	0.6000	47.4	50.0	-5.2	20.0
p-Isopropyltoluene	Ave	3.141	2.815		44.8	50.0	-10.4	20.0
1,4-Dichlorobenzene	Ave	1.531	1.452	0.5000	47.4	50.0	-5.2	20.0
1,2,3-Trimethylbenzene	Ave	3.128	2.879		46.0	50.0	-8.0	20.0
Benzyl chloride	Ave	2.207	2.112		47.8	50.0	-4.3	20.0
1,3-Diethylbenzene	Ave	1.866	1.653		44.3	50.0	-11.4	20.0
1,4-Diethylbenzene	Ave	1.908	1.588		41.6	50.0	-16.8	20.0
n-Butylbenzene	Ave	1.472	1.261		42.8	50.0	-14.3	20.0
1,2-Dichlorobenzene	Ave	1.610	1.483	0.4000	46.1	50.0	-7.9	20.0
1,2-Diethylbenzene	Ave	1.549	1.328		42.9	50.0	-14.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3374	0.2943	0.0500	43.6	50.0	-12.8	20.0
1,3,5-Trichlorobenzene	Ave	1.149	0.9666		42.1	50.0	-15.9	20.0
1,2,4-Trichlorobenzene	Ave	1.155	0.9612	0.2000	41.6	50.0	-16.8	20.0
Hexachlorobutadiene	Ave	0.3968	0.3137		39.5	50.0	-21.0*	20.0
Naphthalene	Ave	4.576	3.961		43.3	50.0	-13.4	20.0
1,2,3-Trichlorobenzene	Ave	1.164	0.9836		42.2	50.0	-15.5	20.0
2-Methylnaphthalene	Ave	2.527	1.992		39.4	50.0	-21.2*	20.0
Dibromofluoromethane (Surr)	Ave	0.2491	0.2630		52.8	50.0	5.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0624	0.0661		52.9	50.0	5.8	20.0
Toluene-d8 (Surr)	Ave	1.369	1.286		47.0	50.0	-6.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4971	0.4792		48.2	50.0	-3.6	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X02.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 07-Jul-2024 20:09:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0118658-003
 Misc. Info.: CCVIS
 Operator ID: gaw91131 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub31
 Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 07-Jul-2024 22:02:40 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1616

First Level Reviewer: JS6E

Date: 07-Jul-2024 20:44:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.040	2.040	0.000	99	538524	50.0	38.9	
7 Chloromethane	50	2.242	2.242	0.000	99	494715	50.0	40.7	
8 Vinyl chloride	62	2.364	2.364	0.000	98	494455	50.0	40.0	
9 Butadiene	39	2.387	2.387	0.000	95	653601	50.0	52.8	
11 Bromomethane	94	2.733	2.733	0.000	90	361286	50.0	43.3	
12 Chloroethane	64	2.823	2.823	0.000	100	283967	50.0	46.7	
13 Dichlorofluoromethane	67	3.089	3.089	0.000	98	785152	50.0	45.7	
14 Trichlorofluoromethane	101	3.150	3.150	0.000	97	623151	50.0	44.9	
15 Pentane	43	3.182	3.182	0.000	96	499373	50.0	47.8	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.510	3.510	0.000	92	411021	50.0	46.6	
19 Acrolein	56	3.590	3.590	0.000	99	998660	501.1	539.4	
21 1,1-Dichloroethene	96	3.750	3.750	0.000	98	308435	50.0	50.0	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.770	3.770	0.000	93	341492	50.0	46.2	
20 Acetone	58	3.782	3.782	0.000	87	124042	100.0	131.1	
25 Iodomethane	142	3.949	3.949	0.000	99	591169	50.0	50.1	
23 Isopropyl alcohol	45	3.952	3.952	0.000	32	102796	250.0	169.3	
26 Carbon disulfide	76	4.090	4.090	0.000	99	1026306	50.0	50.2	
28 Methyl acetate	43	4.212	4.212	0.000	97	328232	50.0	51.2	M
27 3-Chloro-1-propene	41	4.241	4.241	0.000	91	426605	50.0	52.1	
* 32 t-Butyl alcohol-d10 (IS)	65	4.453	4.453	0.000	59	294201	250.0	250.0	
30 Methylene Chloride	84	4.456	4.456	0.000	89	339733	50.0	51.2	
33 2-Methyl-2-propanol	59	4.581	4.581	0.000	28	254286	250.0	204.6	M
34 Acrylonitrile	53	4.800	4.800	0.000	99	502047	125.0	132.8	
36 Methyl tert-butyl ether	73	4.848	4.848	0.000	94	904574	50.0	46.3	
35 trans-1,2-Dichloroethene	96	4.854	4.854	0.000	98	311726	50.0	56.1	
37 Hexane	57	5.284	5.284	0.000	93	337232	50.0	42.9	
38 1,1-Dichloroethane	63	5.528	5.528	0.000	96	499952	50.0	52.4	
40 Isopropyl ether	45	5.583	5.583	0.000	95	838290	50.0	47.5	
41 2-Chloro-1,3-butadiene	53	5.631	5.631	0.000	91	415528	50.0	47.2	
42 Tert-butyl ethyl ether	59	6.112	6.112	0.000	99	797915	50.0	44.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	6.324	6.324	0.000	98	495661	100.0	98.9	
43 cis-1,2-Dichloroethene	96	6.353	6.353	0.000	84	320472	50.0	51.6	
45 2,2-Dichloropropane	77	6.372	6.372	0.000	93	459342	50.0	43.0	
47 Propionitrile	54	6.427	6.427	0.000	98	420465	250.0	277.4	
49 Methacrylonitrile	67	6.645	6.645	0.000	92	444857	125.0	119.2	
50 Chlorobromomethane	128	6.683	6.683	0.000	94	169358	50.0	53.7	
51 Tetrahydrofuran	71	6.693	6.693	0.000	86	367024	250.0	266.0	
52 Chloroform	83	6.834	6.834	0.000	93	507984	50.0	50.1	
\$ 54 Dibromofluoromethane (Surr)	113	7.046	7.046	0.000	93	264308	50.0	52.8	
55 1,1,1-Trichloroethane	97	7.062	7.062	0.000	99	495423	50.0	47.2	
56 Cyclohexane	56	7.161	7.161	0.000	89	535443	50.0	44.2	
58 Carbon tetrachloride	117	7.270	7.270	0.000	84	424686	50.0	47.5	
57 1,1-Dichloropropene	75	7.270	7.270	0.000	94	385668	50.0	47.0	
59 Isobutyl alcohol	41	7.428	7.428	0.000	91	256785	625.0	614.2	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.502	7.502	0.000	79	66373	50.0	52.9	
61 Benzene	78	7.537	7.537	0.000	97	1140554	50.0	49.4	
62 1,2-Dichloroethane	62	7.611	7.611	0.000	98	382682	50.0	49.7	
64 Tert-amyl methyl ether	73	7.720	7.720	0.000	97	816921	50.0	44.5	
66 n-Heptane	43	7.941	7.941	0.000	62	309174	50.0	44.2	
* 65 Fluorobenzene (IS)	96	7.944	7.944	0.000	96	1004794	50.0	50.0	
67 n-Butanol	56	8.304	8.304	0.000	93	173985	625.0	502.1	
68 Trichloroethene	95	8.413	8.413	0.000	98	290660	50.0	47.2	
70 Methylcyclohexane	83	8.724	8.724	0.000	93	502902	50.0	43.7	
72 2-ethoxy-2-methyl butane	87	8.753	8.753	0.000	91	422057	50.0	45.6	
71 1,2-Dichloropropane	63	8.756	8.756	0.000	70	277516	50.0	48.0	
74 Methyl methacrylate	69	8.830	8.830	0.000	91	238247	50.0	43.8	
75 1,4-Dioxane	88	8.833	8.833	0.000	33	56071	625.0	665.4	
73 Dibromomethane	93	8.859	8.859	0.000	97	196776	50.0	48.2	
77 Dichlorobromomethane	83	9.090	9.090	0.000	99	331160	50.0	46.5	
78 2-Nitropropane	41	9.372	9.372	0.000	99	552854	250.0	217.3	
79 2-Chloroethyl vinyl ether	63	9.446	9.446	0.000	89	165870	50.0	40.6	
81 cis-1,3-Dichloropropene	75	9.623	9.623	0.000	96	376770	50.0	43.1	
83 4-Methyl-2-pentanone (MIBK)	43	9.802	9.802	0.000	97	964826	100.0	100.4	
\$ 84 Toluene-d8 (Surr)	98	9.921	9.921	0.000	94	955732	50.0	47.0	
85 Toluene	92	9.998	9.998	0.000	98	659201	50.0	45.7	
86 trans-1,3-Dichloropropene	75	10.252	10.252	0.000	93	329844	50.0	42.6	
87 Ethyl methacrylate	69	10.309	10.309	0.000	88	380098	50.0	41.7	
88 1,1,2-Trichloroethane	97	10.451	10.451	0.000	91	253282	50.0	49.7	
90 Tetrachloroethene	166	10.531	10.531	0.000	97	298802	50.0	47.0	
91 1,3-Dichloropropane	76	10.611	10.611	0.000	91	399850	50.0	48.8	
94 2-Hexanone	43	10.666	10.666	0.000	97	658658	100.0	103.2	
96 Chlorodibromomethane	129	10.820	10.820	0.000	90	275303	50.0	50.1	
98 Ethylene Dibromide	107	10.929	10.929	0.000	98	263254	50.0	48.9	
* 101 Chlorobenzene-d5 (IS)	117	11.355	11.355	0.000	85	742948	50.0	50.0	
103 1-Chlorohexane	91	11.362	11.362	0.000	97	319826	50.0	40.2	
102 Chlorobenzene	112	11.381	11.381	0.000	96	749737	50.0	48.5	
104 1,1,1,2-Tetrachloroethane	131	11.465	11.465	0.000	95	304968	50.0	48.5	
105 Ethylbenzene	91	11.465	11.465	0.000	98	1339269	50.0	47.1	
106 m-Xylene & p-Xylene	106	11.580	11.580	0.000	98	1062275	100.0	94.5	
108 o-Xylene	106	11.907	11.907	0.000	96	558825	50.0	47.0	
109 Styrene	104	11.923	11.923	0.000	95	813733	50.0	46.5	
110 Bromoform	173	12.081	12.081	0.000	96	204174	50.0	48.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
111 Isopropylbenzene	105	12.206	12.206	0.000	95	1333399	50.0	45.1	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.347	12.347	0.000	90	356033	50.0	48.2	
116 1,1,2,2-Tetrachloroethane	83	12.450	12.450	0.000	95	496324	50.0	51.0	
115 Bromobenzene	156	12.466	12.466	0.000	96	330342	50.0	48.2	
119 trans-1,4-Dichloro-2-butene	53	12.475	12.475	0.000	89	230144	125.0	81.0	
118 1,2,3-Trichloropropane	110	12.498	12.498	0.000	84	157681	50.0	50.7	
120 N-Propylbenzene	91	12.530	12.530	0.000	98	1569737	50.0	46.4	
121 2-Chlorotoluene	126	12.610	12.610	0.000	97	336952	50.0	46.1	
122 1,3,5-Trimethylbenzene	105	12.665	12.665	0.000	94	1177168	50.0	45.7	
123 4-Chlorotoluene	126	12.703	12.703	0.000	97	318548	50.0	46.2	
125 tert-Butylbenzene	134	12.909	12.909	0.000	93	223014	50.0	44.3	
127 1,2,4-Trimethylbenzene	105	12.950	12.950	0.000	97	1197107	50.0	45.5	
128 sec-Butylbenzene	105	13.072	13.072	0.000	94	1427790	50.0	45.6	
131 1,3-Dichlorobenzene	146	13.172	13.172	0.000	98	634247	50.0	47.4	
132 4-Isopropyltoluene	119	13.178	13.178	0.000	97	1251887	50.0	44.8	
* 133 1,4-Dichlorobenzene-d4	152	13.226	13.226	0.000	94	444656	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.242	13.242	0.000	95	645451	50.0	47.4	
148 1,2,3-Trimethylbenzene	105	13.255	13.255	0.000	98	1280229	50.0	46.0	
170 Benzyl chloride	91	13.322	13.322	0.000	98	939033	50.0	47.8	
171 1,3-Diethylbenzene	119	13.377	13.377	0.000	95	734890	50.0	44.3	
172 p-Diethylbenzene	119	13.448	13.448	0.000	94	705968	50.0	41.6	
173 n-Butylbenzene	92	13.467	13.467	0.000	97	560737	50.0	42.8	
174 1,2-Dichlorobenzene	146	13.505	13.505	0.000	98	659563	50.0	46.1	
175 o-diethylbenzene	119	13.521	13.521	0.000	95	590432	50.0	42.9	
176 1,2-Dibromo-3-Chloropropane	75	14.048	14.048	0.000	87	130879	50.0	43.6	
177 1,3,5-Trichlorobenzene	180	14.170	14.170	0.000	98	429799	50.0	42.1	
179 1,2,4-Trichlorobenzene	180	14.596	14.596	0.000	94	427423	50.0	41.6	
180 Hexachlorobutadiene	225	14.677	14.677	0.000	94	139480	50.0	39.5	
182 Naphthalene	128	14.783	14.783	0.000	97	1761271	50.0	43.3	
183 1,2,3-Trichlorobenzene	180	14.927	14.927	0.000	95	437378	50.0	42.2	
184 2-Methylnaphthalene	142	15.575	15.575	0.000	92	885675	50.0	39.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00191	Amount Added: 5.00	Units: uL	
MSV_CCV_2CEVE_00183	Amount Added: 5.00	Units: uL	
MSV_CCV_VOC#3_00187	Amount Added: 4.00	Units: uL	
MSV_CCV_GASES_00815	Amount Added: 2.50	Units: uL	
MSV_Cent_ISSS_00029	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 07-Jul-2024 22:02:41

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X02.D

Injection Date: 07-Jul-2024 20:09:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

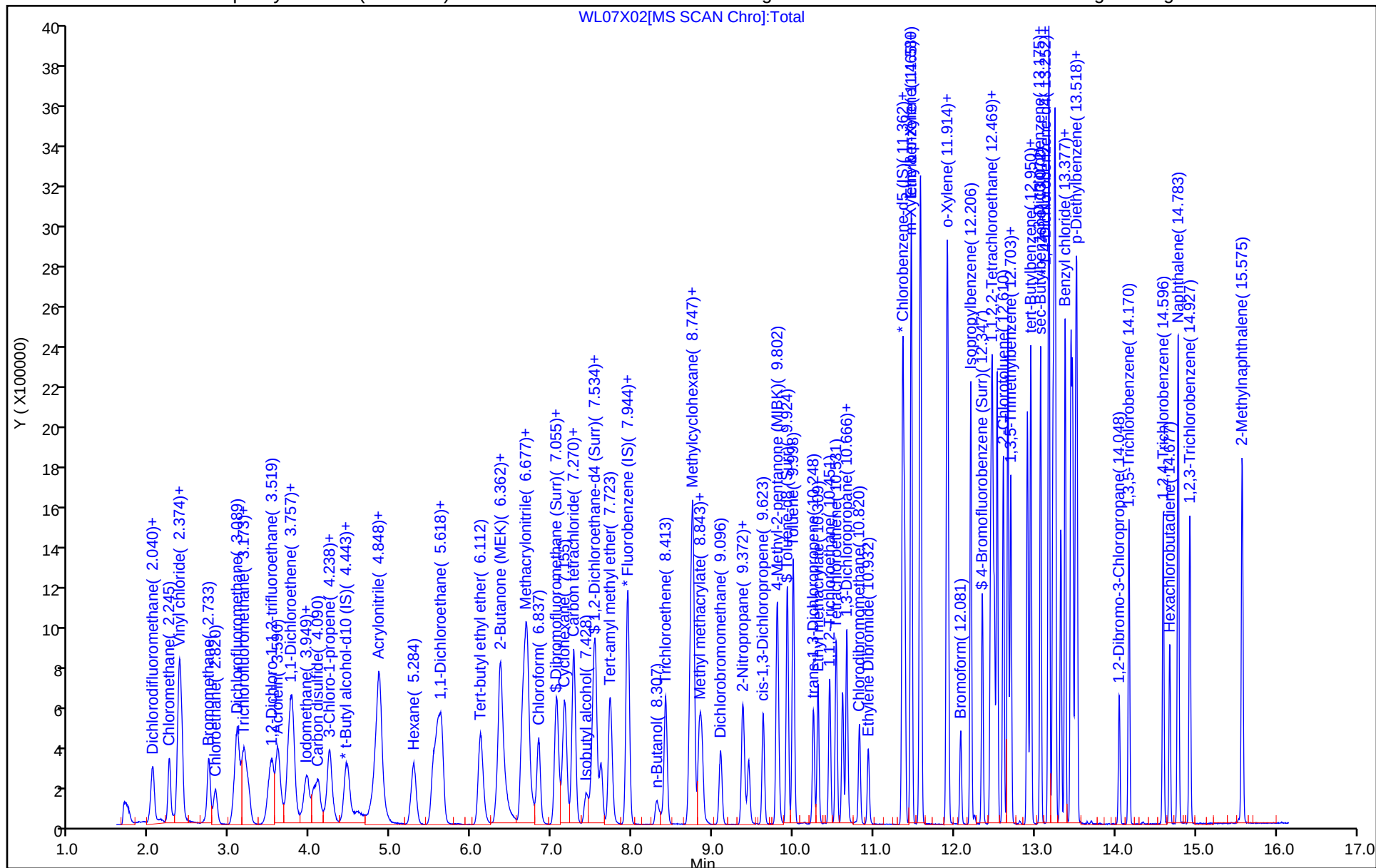
ALS Bottle#: 2

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

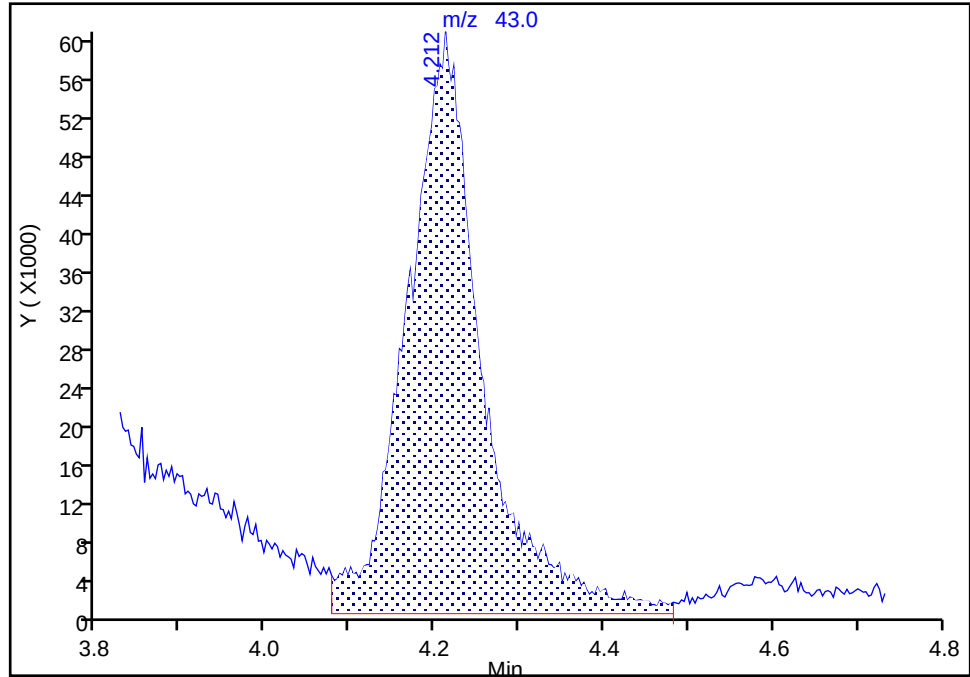
Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X02.D
Injection Date: 07-Jul-2024 20:09:30 Instrument ID: 9137
Lims ID: CCVIS
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

28 Methyl acetate, CAS: 79-20-9

Signal: 1

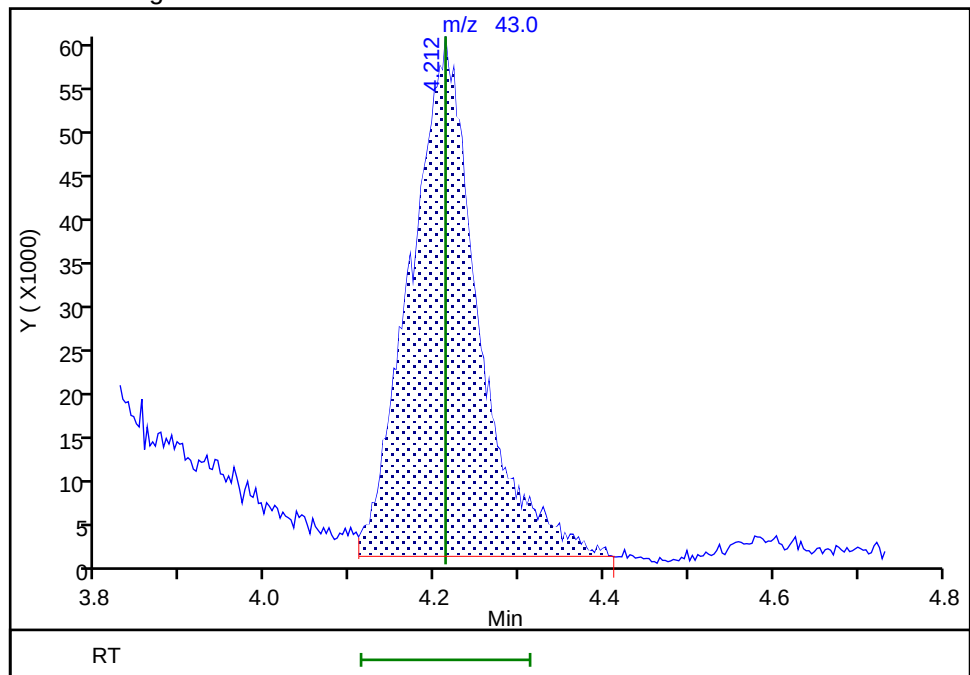
RT: 4.21
Area: 369784
Amount: 57.680598
Amount Units: ug/l

Processing Integration Results



RT: 4.21
Area: 328232
Amount: 51.199127
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 07-Jul-2024 20:40:40 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

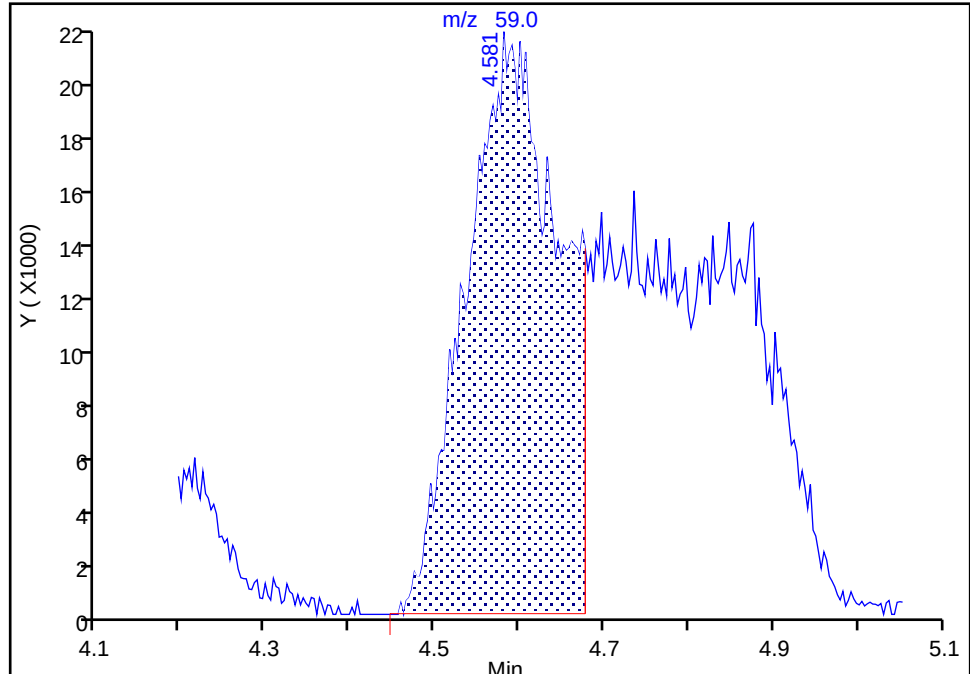
Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X02.D
Injection Date: 07-Jul-2024 20:09:30 Instrument ID: 9137
Lims ID: CCVIS
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

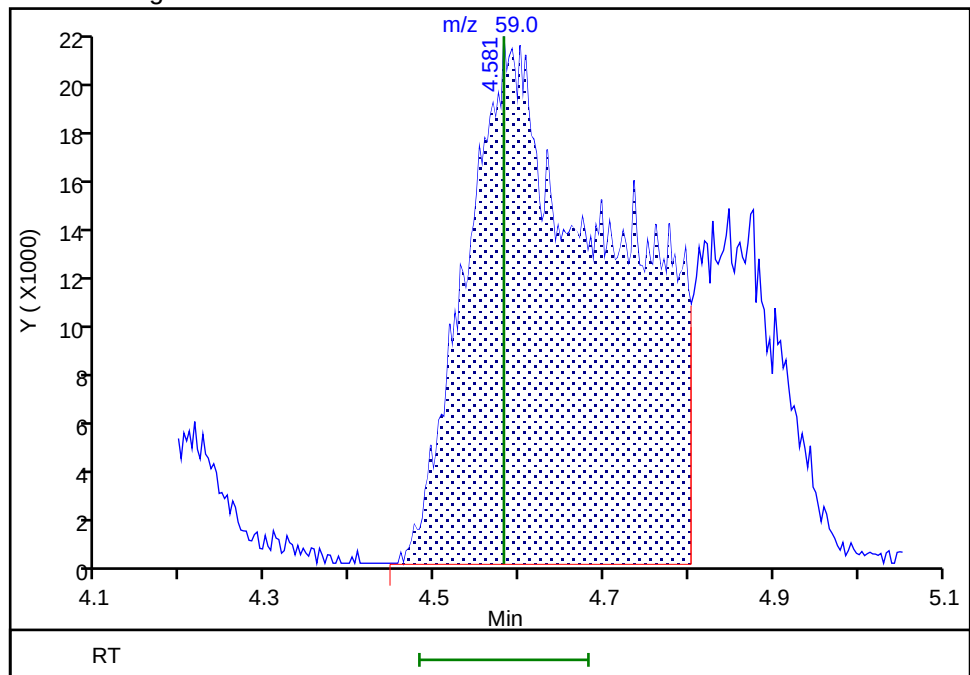
RT: 4.58
Area: 160395
Amount: 129.0428
Amount Units: ug/l

Processing Integration Results



RT: 4.58
Area: 254286
Amount: 204.5810
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 07-Jul-2024 20:41:37 -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\9137\20240603-115635.b\WU13T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 03-Jun-2024 17:08:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: BFB
Operator ID: mec29284 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 04-Jun-2024 00:40:30 Calib Date: 03-Jun-2024 23:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: K4WN

Date: 03-Jun-2024 17:16:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 53 BFB	95	4.176	4.176	0.000	0	350313	NC	NC	a

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

MSV_V_BFB_00016

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

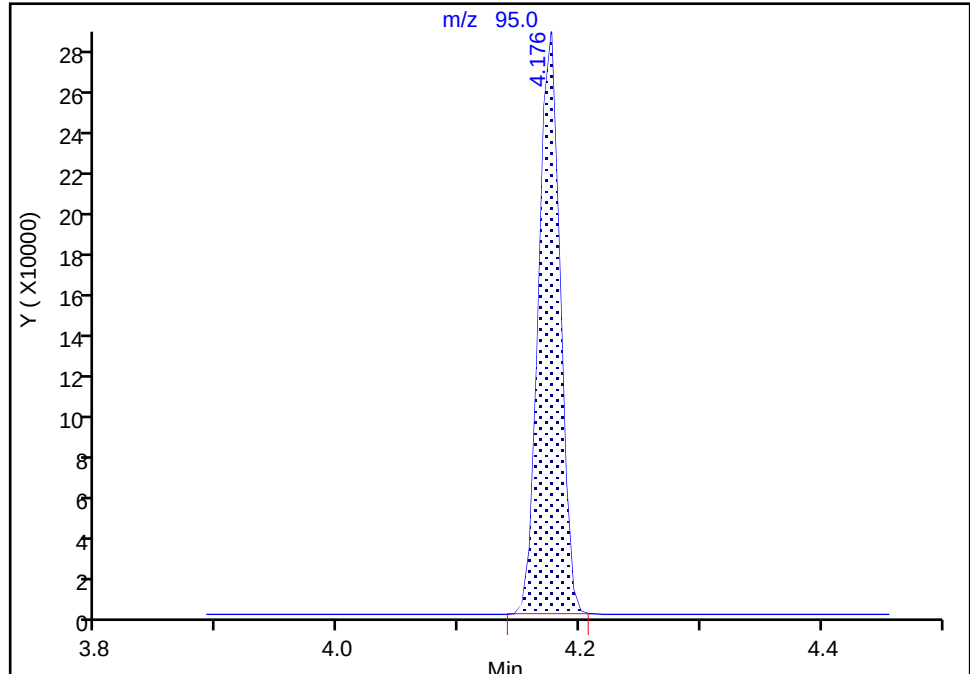
Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU13T01.D
Injection Date: 03-Jun-2024 17:08:30 Instrument ID: 9137
Lims ID: bfb
Client ID:
Operator ID: mec29284 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

\$ 53 BFB, CAS: 460-00-4

Signal: 1

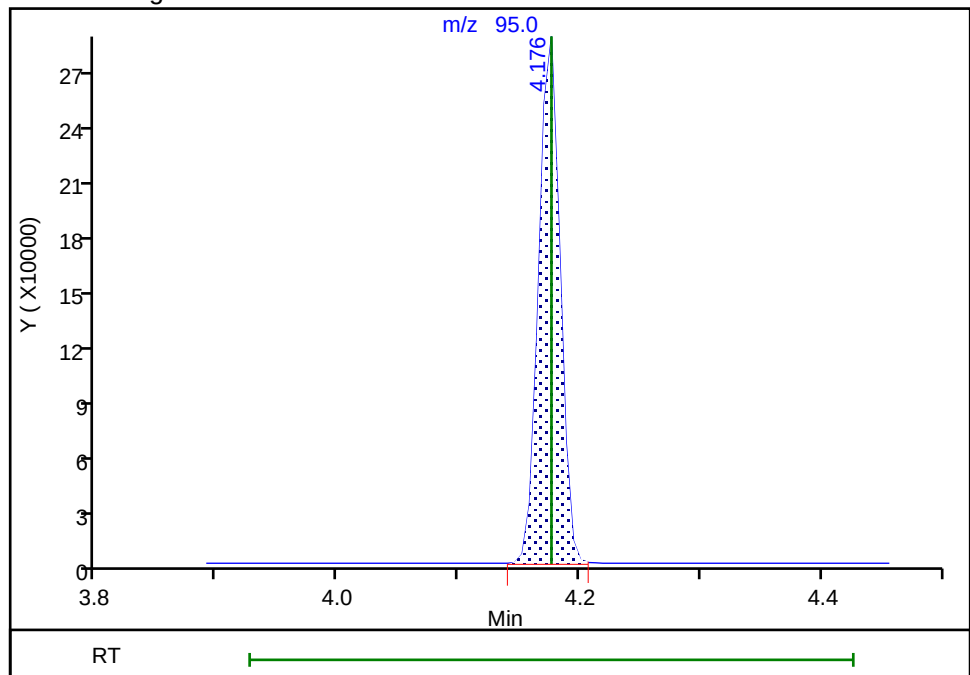
RT: 4.18
Area: 350313
Amount: 0
Amount Units: ug/l

Processing Integration Results



RT: 4.18
Area: 350313
Amount: 0
Amount Units: ug/l

Manual Integration Results



Reviewer: K4WN, 03-Jun-2024 17:16:43 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU13T01.D

Injection Date: 03-Jun-2024 17:08:30

Instrument ID: 9137

Lims ID: bfb

Client ID:

Operator ID: mec29284

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

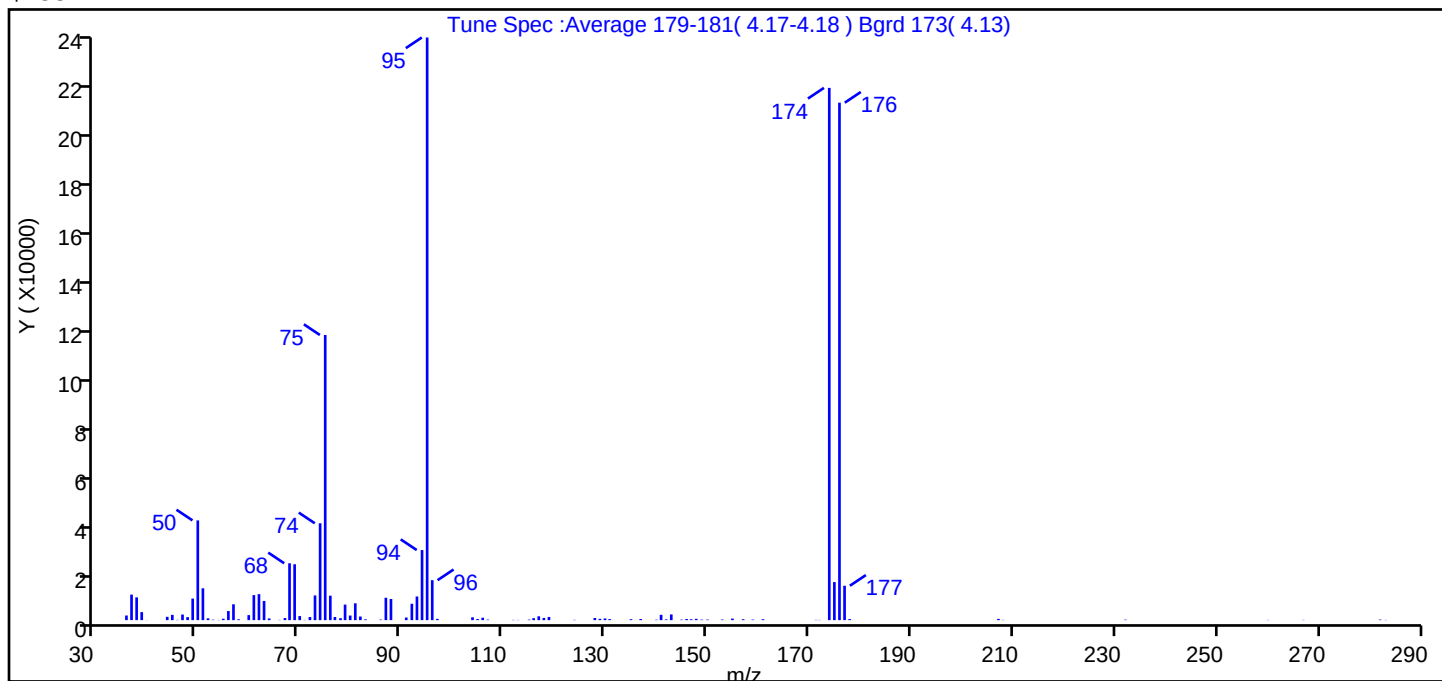
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

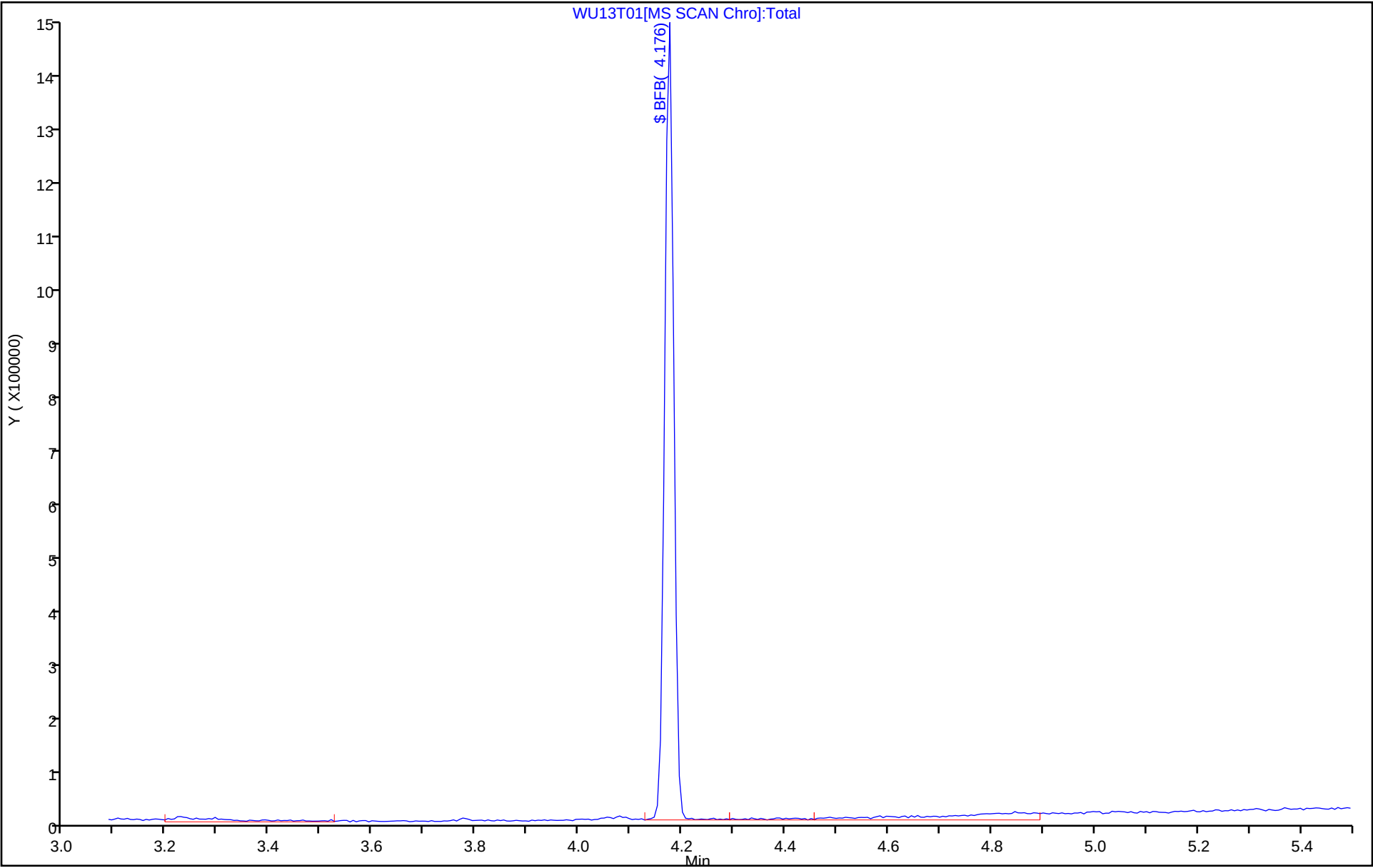
\$ 53 BFB



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	48.9
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	91.3
175	5 to 9% of m/z 174	6.5 (7.2)
176	Greater than 95% but less than 101% of m/z 174	88.8 (97.2)
177	5 to 9% of m/z 176	5.9 (6.6)

Data File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU13T01.D\MSVoa_9137.rsl\spectra.d
Injection Date: 03-Jun-2024 17:08:30
Spectrum: Tune Spec :Average 179-181(4.17-4.18) Bgrd 173(4.13)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 100

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1910	66.00	95	95.00	239680	145.00	198
37.00	10515	67.00	866	96.00	16440	146.00	458
38.00	9365	68.00	23392	97.00	522	147.00	363
39.00	3303	69.00	23000	104.00	1173	148.00	532
40.00	41	70.00	1679	105.00	453	149.00	210
44.00	1365	71.00	96	106.00	990	150.00	233
45.00	2169	72.00	1277	107.00	221	153.00	242
46.00	108	73.00	10163	112.00	106	155.00	641
47.00	2309	74.00	39848	113.00	88	157.00	365
48.00	1243	75.00	117296	115.00	231	159.00	221
49.00	8867	76.00	10068	116.00	807	161.00	379
50.00	41032	77.00	1293	117.00	1581	171.00	115
51.00	13093	78.00	801	118.00	893	172.00	95
52.00	742	79.00	6396	119.00	1303	174.00	218944
53.00	186	80.00	1892	124.00	117	175.00	15659
54.00	83	81.00	6932	128.00	876	176.00	212864
55.00	572	82.00	1488	129.00	531	177.00	14152
56.00	3743	83.00	327	130.00	693	178.00	432
57.00	6518	86.00	221	131.00	427	207.00	515
58.00	353	87.00	9217	135.00	380	208.00	96
60.00	2070	88.00	8692	137.00	468	232.00	194
61.00	10301	91.00	1085	140.00	175	260.00	91
62.00	10693	92.00	6741	141.00	2188	267.00	93
63.00	7897	93.00	9722	142.00	295	282.00	234
64.00	705	94.00	28832	143.00	2347	283.00	88



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 07-Jul-2024 19:32:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0118658-001
Misc. Info.: BFB
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2024 22:03:06 Calib Date: 03-Jun-2024 23:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1616

First Level Reviewer: JS6E

Date: 07-Jul-2024 19:44:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 53 BFB	95	4.176	4.176	0.000	0	382970	NC	NC	a

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

MSV_V_BFB_00017

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07T01.D

Injection Date: 07-Jul-2024 19:32:30

Instrument ID: 9137

Lims ID: bfb

Client ID:

Operator ID: gaw91131

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

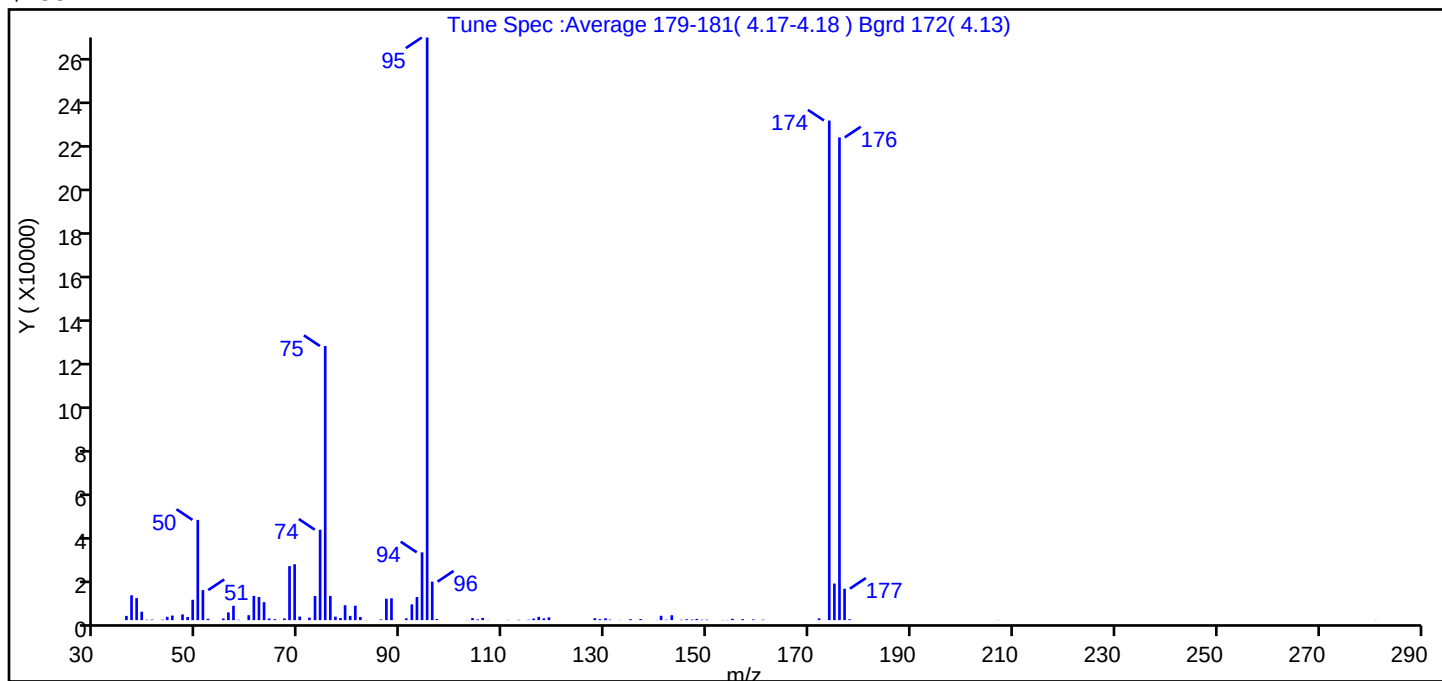
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

\$ 53 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.2
75	30 to 60% of m/z 95	47.0
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	85.7
175	5 to 9% of m/z 174	6.3 (7.3)
176	Greater than 95% but less than 101% of m/z 174	82.9 (96.6)
177	5 to 9% of m/z 176	5.4 (6.5)

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07T01.D\MSVoa_9137.rslt\spectra.d
Injection Date: 07-Jul-2024 19:32:30
Spectrum: Tune Spec :Average 179-181(4.17-4.18) Bgrd 172(4.13)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1932	65.00	440	95.00	265408	142.00	197
37.00	11318	67.00	769	96.00	17544	143.00	2230
38.00	10038	68.00	24608	97.00	501	145.00	186
39.00	3854	69.00	25464	103.00	95	146.00	402
40.00	183	70.00	1638	104.00	957	147.00	277
41.00	268	72.00	1138	105.00	345	148.00	562
43.00	219	73.00	10982	106.00	1019	149.00	213
44.00	1533	74.00	41200	107.00	109	150.00	237
45.00	2080	75.00	124872	111.00	109	153.00	96
47.00	2617	76.00	11043	113.00	189	154.00	93
48.00	1428	77.00	1599	115.00	207	155.00	622
49.00	9266	78.00	992	116.00	713	157.00	467
50.00	45664	79.00	6792	117.00	1503	159.00	317
51.00	13686	80.00	1940	118.00	814	161.00	220
52.00	612	81.00	6578	119.00	1290	172.00	821
55.00	766	82.00	1440	128.00	877	174.00	227584
56.00	3539	83.00	85	129.00	442	175.00	16672
57.00	6535	86.00	319	130.00	851	176.00	219904
58.00	179	87.00	9771	131.00	263	177.00	14327
60.00	2260	88.00	9962	133.00	92	178.00	424
61.00	11064	91.00	850	135.00	448	207.00	81
62.00	10534	92.00	7178	137.00	476	281.00	67
63.00	8195	93.00	10523	140.00	87		
64.00	778	94.00	30888	141.00	1984		

Eurofins Lancaster Laboratories Environment Testing, LLC

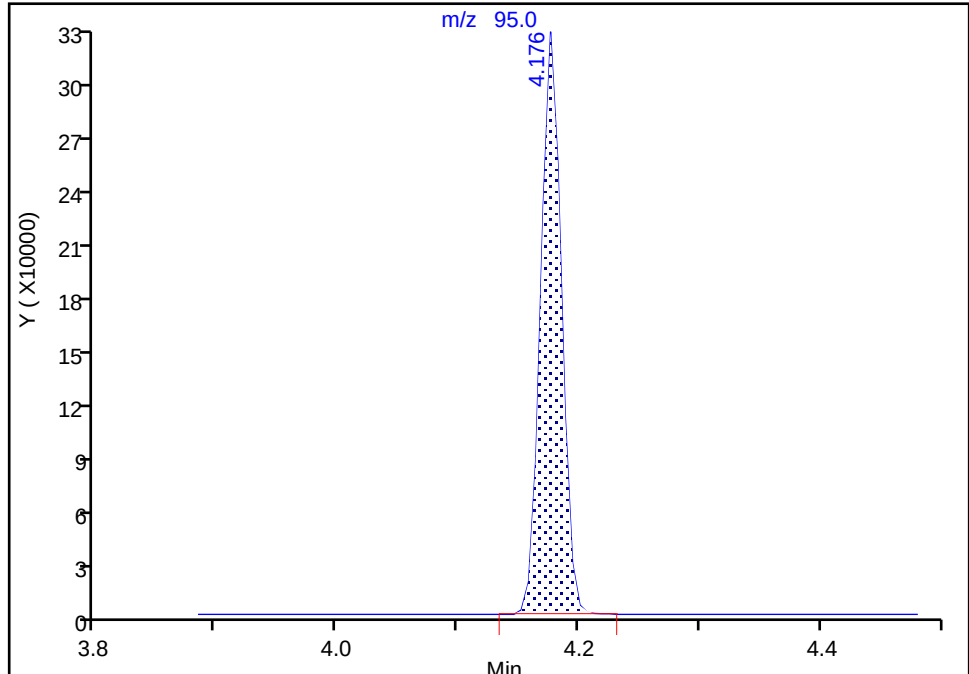
Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07T01.D
Injection Date: 07-Jul-2024 19:32:30 Instrument ID: 9137
Lims ID: bfb
Client ID:
Operator ID: gaw91131 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

\$ 53 BFB, CAS: 460-00-4

Signal: 1

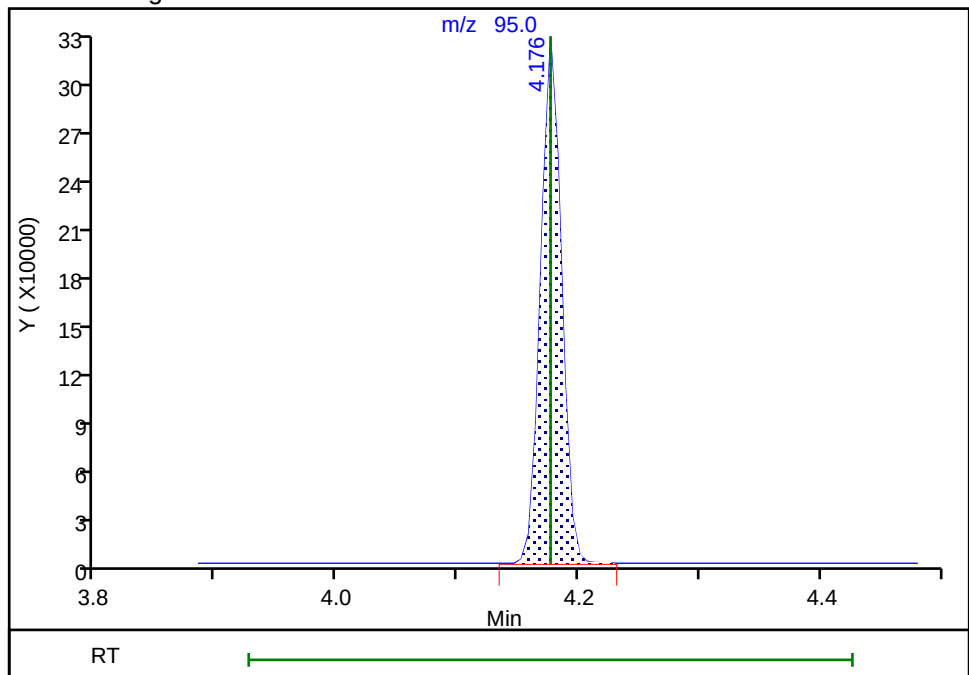
RT: 4.18
Area: 382970
Amount: 0
Amount Units: ug/l

Processing Integration Results



RT: 4.18
Area: 382970
Amount: 0
Amount Units: ug/l

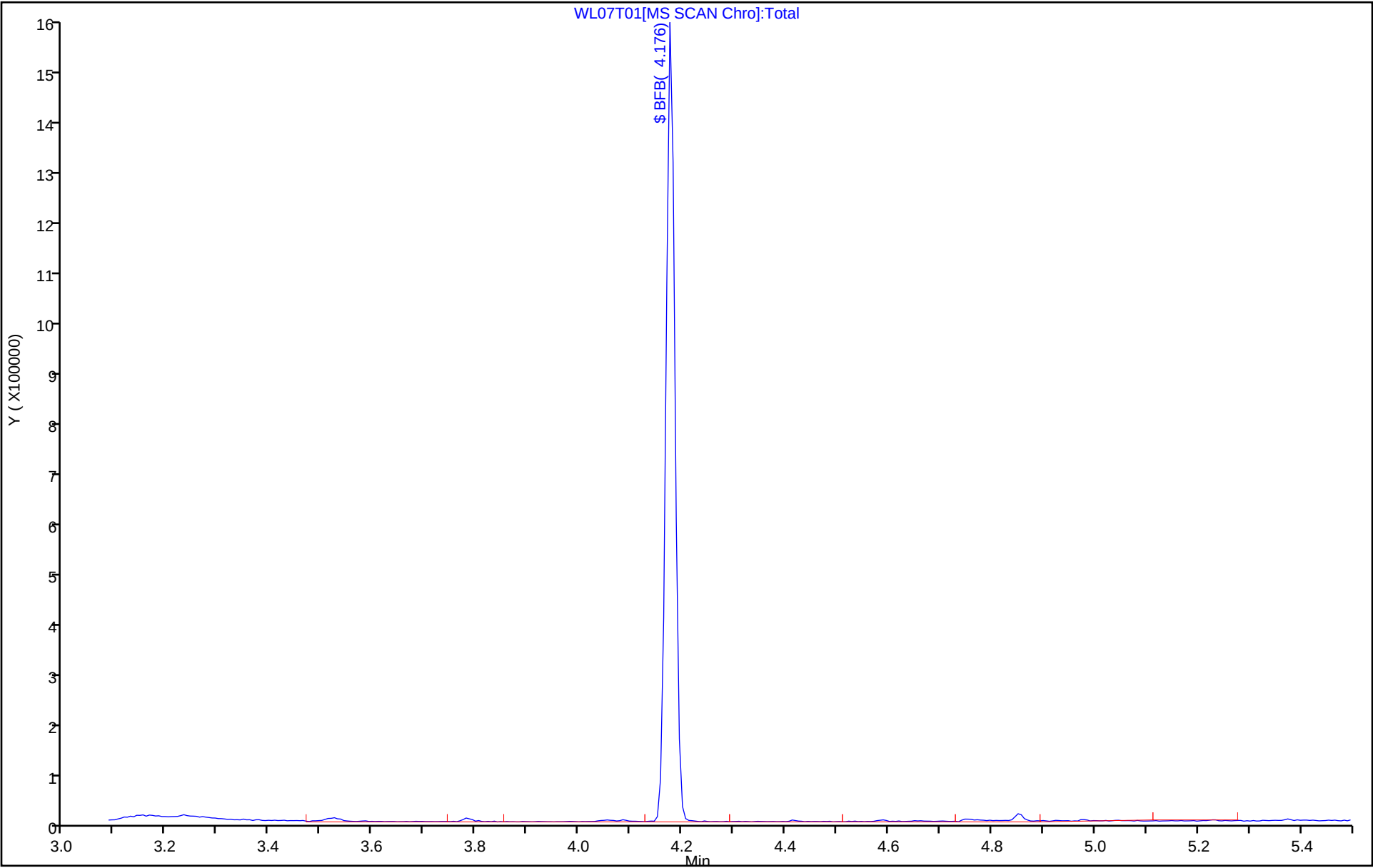
Manual Integration Results



Reviewer: JS6E, 07-Jul-2024 19:44:00 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Missed Peak



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-525333/6

Matrix: Water

Lab File ID: WL07X05.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5(mL)

Date Analyzed: 07/07/2024 21:15

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 525333

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30
108-88-3	Toluene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-525333/6

Matrix: Water Lab File ID: WL07X05.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 07/07/2024 21:15

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 525333 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		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\9137\20240707-118658.b\WL07X05.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 07-Jul-2024 21:15:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0118658-006
 Misc. Info.: MB
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Jul-2024 15:50:46 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1632

First Level Reviewer: JS6E

Date: 07-Jul-2024 22:02:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
A 1 C4-C10	1		(0.000-0.100)					ND	
A 2 C4-C12	1		(0.000-0.250)					ND	
4 Chlorotrifluoroethene	116		1.995					ND	
6 Dichlorodifluoromethane	85		2.040					ND	
5 Chlorodifluoromethane	51		2.043					ND	
7 Chloromethane	50		2.242					ND	7
8 Vinyl chloride	62		2.364					ND	
9 Butadiene	39		2.387					ND	7
10 2-Chloro-1,1,1-Trifluoroethane	118		2.467					ND	
11 Bromomethane	94		2.733					ND	
12 Chloroethane	64		2.823					ND	
13 Dichlorofluoromethane	67		3.089					ND	
14 Trichlorofluoromethane	101		3.150					ND	
15 Pentane	43		3.182					ND	7
17 Ethanol	45		3.291					ND	
16 Ethyl ether	59		3.391					ND	
18 1,2-Dichloro-1,1,2-trifluoroetha	67		3.510					ND	
19 Acrolein	56		3.590					ND	
21 1,1-Dichloroethene	96		3.750					ND	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.770					ND	
20 Acetone	58		3.782					ND	
25 Iodomethane	142		3.949					ND	
23 Isopropyl alcohol	45		3.952					ND	
26 Carbon disulfide	76		4.090					ND	7
29 Acetonitrile	41		4.174					ND	
28 Methyl acetate	43		4.212					ND	7
27 3-Chloro-1-propene	41		4.241					ND	7
* 32 t-Butyl alcohol-d10 (IS)	65	4.437	4.453	-0.016	1	288080	250.0	250.0	
30 Methylene Chloride	84		4.456					ND	
33 2-Methyl-2-propanol	59		4.581					ND	
34 Acrylonitrile	53		4.800					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Methyl tert-butyl ether	73		4.848					ND	
35 trans-1,2-Dichloroethene	96		4.854					ND	
37 Hexane	57		5.284					ND	
39 Vinyl acetate	43		5.515					ND	
38 1,1-Dichloroethane	63		5.528					ND	
40 Isopropyl ether	45		5.583					ND	
41 2-Chloro-1,3-butadiene	53		5.631					ND	
42 Tert-butyl ethyl ether	59		6.112					ND	
S 80 1,2-Dichloroethene, Total	100		6.155					ND	7
44 2-Butanone (MEK)	43		6.324					ND	U
43 cis-1,2-Dichloroethene	96		6.353					ND	
45 2,2-Dichloropropane	77		6.372					ND	
46 Ethyl acetate	43		6.385					ND	7
A 82 C6-C10	1	6.394	(2.952-9.836)		0	251255		NC	
47 Propionitrile	54		6.427					ND	
48 Methyl acrylate	55		6.443					ND	
49 Methacrylonitrile	67		6.645					ND	
50 Chlorobromomethane	128		6.683					ND	
51 Tetrahydrofuran	71		6.693					ND	
52 Chloroform	83		6.834					ND	
\$ 54 Dibromofluoromethane (Surr)	113	7.039	7.046	-0.007	93	233218	50.0	55.5	
55 1,1,1-Trichloroethane	97		7.062					ND	
A 89 C5-C12	1	7.153	(2.686-11.621)		0	2402536		NC	
56 Cyclohexane	56		7.161					ND	
58 Carbon tetrachloride	117		7.270					ND	
57 1,1-Dichloropropene	75		7.270					ND	
A 92 C6-C12	1	7.286	(2.952-11.621)		0	2377831		NC	
59 Isobutyl alcohol	41		7.428					ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.495	7.502	-0.007	69	57147	50.0	54.2	
95 t-Amyl alcohol	73		7.515					ND	
61 Benzene	78		7.537					ND	
62 1,2-Dichloroethane	62		7.611					ND	
63 Isopropyl acetate	43		7.620					ND	
64 Tert-amyl methyl ether	73		7.720					ND	
66 n-Heptane	43		7.941					ND	
* 65 Fluorobenzene (IS)	96	7.935	7.944	-0.009	99	844118	50.0	50.0	
67 n-Butanol	56		8.304					ND	
68 Trichloroethene	95		8.413					ND	
69 Ethyl acrylate	55		8.528					ND	
70 Methylcyclohexane	83		8.724					ND	
72 2-ethoxy-2-methyl butane	87		8.753					ND	
71 1,2-Dichloropropane	63		8.756					ND	
74 Methyl methacrylate	69		8.830					ND	
75 1,4-Dioxane	88		8.833					ND	
73 Dibromomethane	93		8.859					ND	
76 n-Propyl acetate	61		8.910					ND	
77 Dichlorobromomethane	83		9.090					ND	
78 2-Nitropropane	41		9.372					ND	
124 2,3,4-Trichlorobutene	109		9.383					ND	
79 2-Chloroethyl vinyl ether	63		9.446					ND	
81 cis-1,3-Dichloropropene	75		9.623					ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.802					ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 84 Toluene-d8 (Surr)	98	9.921	9.921	0.000	93	805803	50.0	47.8	
85 Toluene	92		9.998					ND	
S 162 1,3-Dichloropropene, Total	100		10.060					ND	7
86 trans-1,3-Dichloropropene	75		10.252					ND	7
87 Ethyl methacrylate	69		10.309					ND	
88 1,1,2-Trichloroethane	97		10.451					ND	
90 Tetrachloroethene	166		10.531					ND	
91 1,3-Dichloropropane	76		10.611					ND	
93 3,4-Dichloro-1-butene	75		10.646					ND	
94 2-Hexanone	43		10.666					ND	
97 n-Butyl acetate	43		10.771					ND	7
96 Chlorodibromomethane	129		10.820					ND	
98 Ethylene Dibromide	107		10.929					ND	
S 178 Xylenes, Total	106		11.245					ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.355	11.355	0.000	85	615822	50.0	50.0	
103 1-Chlorohexane	91		11.362					ND	U
102 Chlorobenzene	112		11.381					ND	7
104 1,1,1,2-Tetrachloroethane	131		11.465					ND	
105 Ethylbenzene	91		11.465					ND	
106 m-Xylene & p-Xylene	106		11.580					ND	
107 n-Butyl acrylate	55		11.853					ND	
108 o-Xylene	106		11.907					ND	
109 Styrene	104		11.923					ND	7
110 Bromoform	173		12.081					ND	
111 Isopropylbenzene	105		12.206					ND	
112 cis-1,4-Dichloro-2-butene	88		12.251					ND	U
113 Cyclohexanone	55		12.286					ND	7
\$ 114 4-Bromofluorobenzene (Surr)	95	12.347	12.347	0.000	91	295811	50.0	48.3	
116 1,1,2,2-Tetrachloroethane	83		12.450					ND	
115 Bromobenzene	156		12.466					ND	
119 trans-1,4-Dichloro-2-butene	53		12.475					ND	
118 1,2,3-Trichloropropane	110		12.498					ND	
120 N-Propylbenzene	91		12.530					ND	
121 2-Chlorotoluene	126		12.610					ND	
122 1,3,5-Trimethylbenzene	105		12.665					ND	
123 4-Chlorotoluene	126		12.703					ND	
125 tert-Butylbenzene	134		12.909					ND	
126 Pentachloroethane	167		12.941					ND	
127 1,2,4-Trimethylbenzene	105		12.950					ND	
128 sec-Butylbenzene	105		13.072					ND	
131 1,3-Dichlorobenzene	146		13.172					ND	7
132 4-Isopropyltoluene	119		13.178					ND	
* 133 1,4-Dichlorobenzene-d4	152	13.226	13.226	0.000	95	371396	50.0	50.0	
134 1,4-Dichlorobenzene	146		13.242					ND	7
148 1,2,3-Trimethylbenzene	105		13.255					ND	
170 Benzyl chloride	91		13.322					ND	7
171 1,3-Diethylbenzene	119		13.377					ND	7
172 p-Diethylbenzene	119		13.448					ND	7
173 n-Butylbenzene	92		13.467					ND	
174 1,2-Dichlorobenzene	146		13.505					ND	
175 o-diethylbenzene	119		13.521					ND	
185 Hexachloroethane	201		13.560					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
176 1,2-Dibromo-3-Chloropropane	75		14.048					ND	
177 1,3,5-Trichlorobenzene	180		14.170					ND	
179 1,2,4-Trichlorobenzene	180		14.596					ND	
181 2-Ethylhexyl acrylate	55		14.651					ND	
180 Hexachlorobutadiene	225		14.677					ND	
182 Naphthalene	128		14.783					ND	7
183 1,2,3-Trichlorobenzene	180		14.927					ND	7
184 2-Methylnaphthalene	142		15.575					ND	7
186 tert-Butyl Formate	1		0.000					ND	
190 n-Nonane	1		0.000					ND	
191 Gasoline (Unleaded)	1		0.000					ND	
192 1-Methylnaphthalene	142		0.000					ND	
193 sec-Butyl Alcohol TIC	1		0.000					ND	
194 1-Chlorobutane	1		0.000					ND	
195 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
196 3-Methyl-1-butene	1		0.000					ND	
187 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
188 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
189 Decamethylcyclopentasiloxane TIC	1		0.000					ND	
197 Propanol	1		0.000					ND	
201 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
S 202 Total BTEX	1		0.000					ND	
203 Isobutyl acetate	43		0.000					ND	
204 1-Bromo-2-chloroethane	1		0.000					ND	
S 205 Total Diethylbenzene	1		0.000					ND	7
206 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
198 3-chloro-1-Butene	1		0.000					ND	
199 Chloroacetonitrile	1		0.000					ND	
200 Methylal	1		0.000					ND	
S 209 divinyl benzene	1		0.000					ND	7
210 n-Octane	1		0.000					ND	
215 2-ethoxy-2-methyl butane TIC	1		0.000					ND	
216 Dimethylformamide TIC	1		0.000					ND	
217 Undecane	1		0.000					ND	
218 4-Ethyltoluene	1		0.000					ND	
219 sec-Butyl Alcohol	45		0.000					ND	
220 Diethoxymethane	1		0.000					ND	
211 Ethyl bromide	1		0.000					ND	
212 1,3-Divinylbenzene	1		0.000					ND	
213 Propene oxide	1		0.000					ND	
221 1,4-Divinylbenzene	1		0.000					ND	
281 2,3-Dimethylbutane TIC	1		0.000					ND	
282 2,2-Dimethylbutane TIC	1		0.000					ND	
283 Methylcyclopentane TIC	1		0.000					ND	
284 Dimethyl Sulfide TIC	1		0.000					ND	
285 2,2-Dimethylpropane TIC	1		0.000					ND	
286 2-Methylhexane TIC	1		0.000					ND	
288 3-Methylpentane TIC	1		0.000					ND	
222 1,1,1,2-Tetrafluoroethane TIC	1		0.000					ND	
223 3-Pentanone TIC	1		0.000					ND	
\$ 280 trans-1,2,3-Trichlorobutene-2 TIC	1		0.000					ND	
289 Cyclopentane TIC	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

290 3-Methylhexane TIC

1

0.000

ND

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00029

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-Jul-2024 15:50:46

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X05.D

Injection Date: 07-Jul-2024 21:15:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

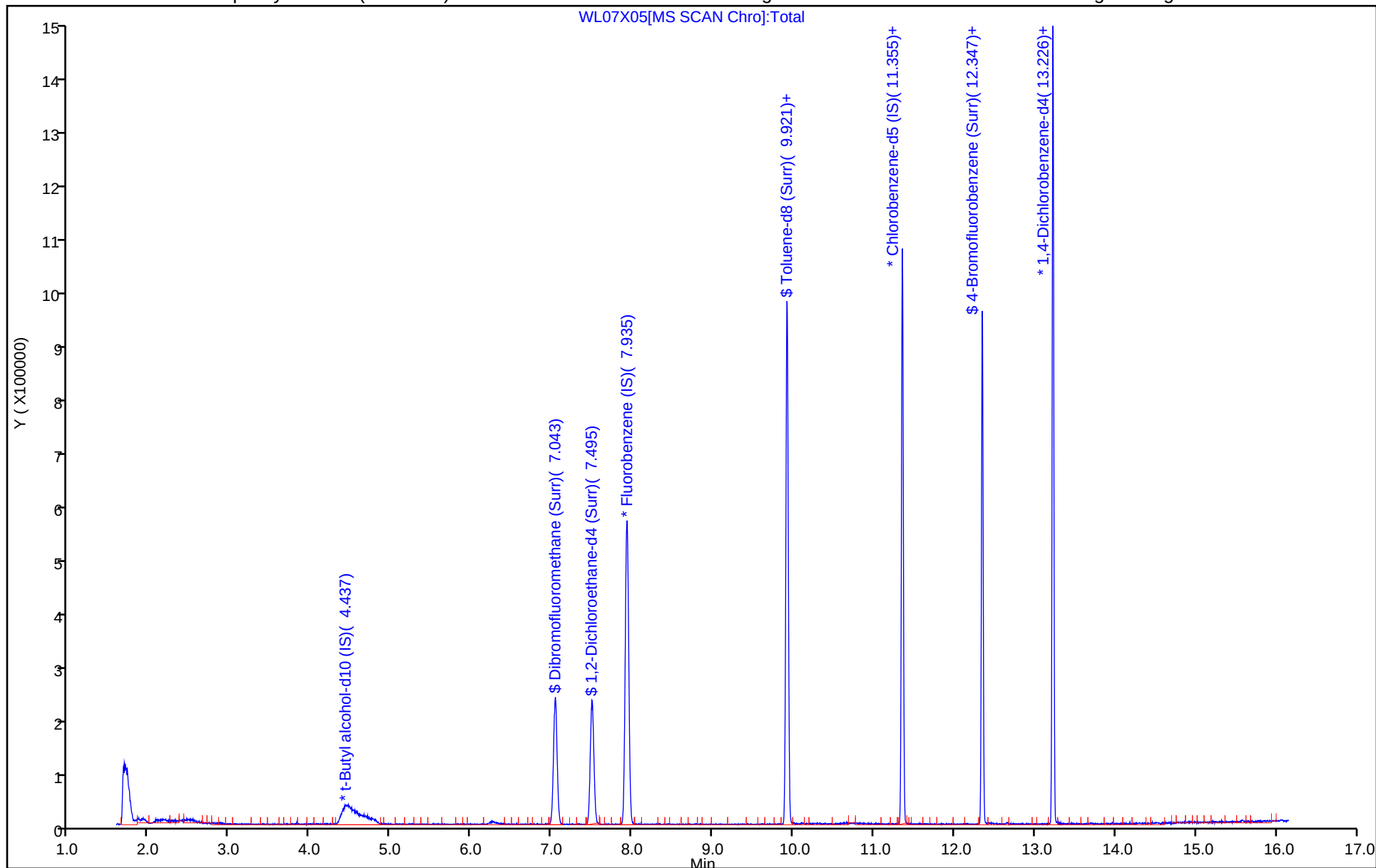
ALS Bottle#: 5

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 07-Jul-2024 21:15:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118658-006
Misc. Info.: MB
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2024 15:50:46 Calib Date: 03-Jun-2024 23:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: JS6E

Date: 07-Jul-2024 22:02:02

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	55.5	110.92
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	54.2	108.45
\$ 84 Toluene-d8 (Surr)	50.0	47.8	95.59
\$ 114 4-Bromofluorobenzene (Surr)	50.0	48.3	96.63

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X05.D

Injection Date: 07-Jul-2024 21:15:30

Instrument ID: 9137

Lims ID: MB

Client ID:

Operator ID: gaw91131

ALS Bottle#: 5

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: MSVoa_9137

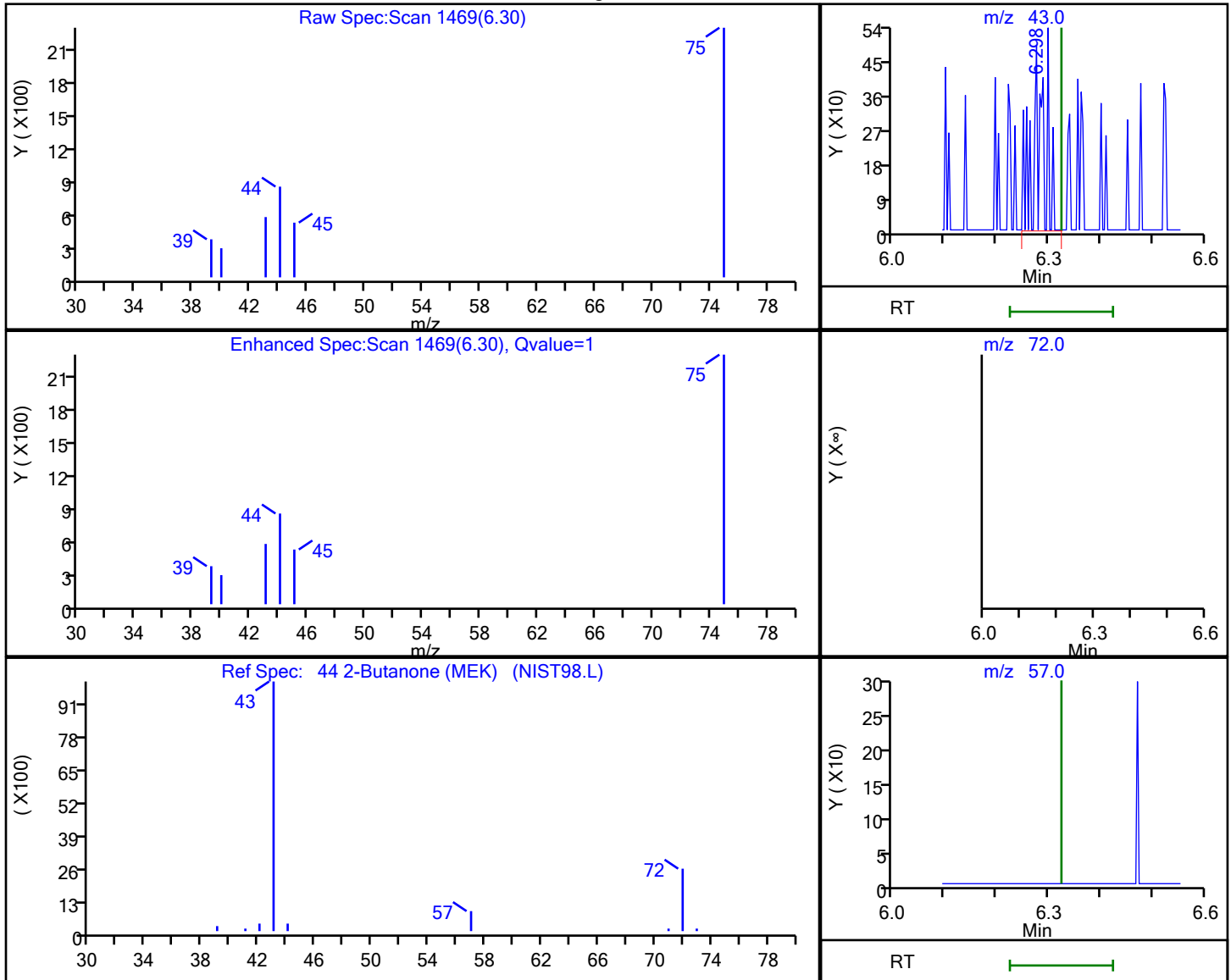
Limit Group: MSV - 8260C_D

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

MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.30	43.00	702	0.166763
6.32	72.00	0	
6.32	57.00	0	

Reviewer: FQ4L, 08-Jul-2024 15:50:36 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.: 410-177863-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-525333/4

Matrix: Water

Lab File ID: WL07X03.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5(mL)

Date Analyzed: 07/07/2024 20:31

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 525333

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	19.0		1.0	0.30
71-55-6	1,1,1-Trichloroethane	18.5		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	19.3		1.0	0.30
79-00-5	1,1,2-Trichloroethane	19.3		1.0	0.30
75-34-3	1,1-Dichloroethane	19.5		1.0	0.30
75-35-4	1,1-Dichloroethene	18.6		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	19.0		1.0	0.20
107-06-2	1,2-Dichloroethane	18.9		1.0	0.30
78-87-5	1,2-Dichloropropane	18.2		1.0	0.30
78-93-3	2-Butanone (MEK)	225		10	0.50
591-78-6	2-Hexanone	250		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	255		10	0.50
67-64-1	Acetone	319		20	0.70
71-43-2	Benzene	18.7		1.0	0.30
74-97-5	Bromochloromethane	20.6		5.0	0.20
75-27-4	Bromodichloromethane	18.1		1.0	0.20
75-25-2	Bromoform	18.5		4.0	1.0
74-83-9	Bromomethane	15.8		1.0	0.30
75-15-0	Carbon disulfide	16.6		5.0	0.30
56-23-5	Carbon tetrachloride	17.9		1.0	0.30
108-90-7	Chlorobenzene	18.8		1.0	0.30
75-00-3	Chloroethane	17.8		1.0	0.30
67-66-3	Chloroform	18.8		1.0	0.30
74-87-3	Chloromethane	13.9		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	19.3		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	16.0		1.0	0.20
124-48-1	Dibromochloromethane	19.1		1.0	0.20
100-41-4	Ethylbenzene	17.7		1.0	0.40
1634-04-4	Methyl tert-butyl ether	17.0		1.0	0.20
75-09-2	Methylene Chloride	18.8		1.0	0.30
100-42-5	Styrene	17.3		5.0	0.30
127-18-4	Tetrachloroethene	18.1		1.0	0.30
108-88-3	Toluene	18.5		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-177863-1

SDG No. :

Client Sample ID:

Lab Sample ID: LCS 410-525333/4

Matrix: Water

Lab File ID: WL07X03.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5 (mL)

Date Analyzed: 07/07/2024 20:31

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 525333

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	20.7		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	16.8		1.0	0.20
79-01-6	Trichloroethene	17.6		1.0	0.30
75-01-4	Vinyl chloride	13.5		1.0	0.30
1330-20-7	Xylenes, Total	53.1		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		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\9137\20240707-118658.b\WL07X03.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 07-Jul-2024 20:31:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0118658-004
 Misc. Info.: LCS
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 07-Jul-2024 22:02:40 Calib Date: 03-Jun-2024 23:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1616

First Level Reviewer: JS6E

Date: 07-Jul-2024 20:53:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.024	2.040	-0.016	99	156718	20.0	12.0	
7 Chloromethane	50	2.226	2.242	-0.016	100	159089	20.0	13.9	
8 Vinyl chloride	62	2.351	2.364	-0.013	98	156866	20.0	13.5	
9 Butadiene	39	2.364	2.387	-0.023	91	210740	20.0	18.0	
11 Bromomethane	94	2.720	2.733	-0.013	89	124409	20.0	15.8	
12 Chloroethane	64	2.800	2.823	-0.023	99	101850	20.0	17.8	
13 Dichlorofluoromethane	67	3.080	3.089	-0.009	97	243913	20.0	15.0	
14 Trichlorofluoromethane	101	3.121	3.150	-0.029	96	189792	20.0	14.5	
15 Pentane	43	3.163	3.182	-0.019	97	140552	20.0	14.3	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.493	3.510	-0.017	89	135166	20.0	16.3	
19 Acrolein	56	3.574	3.590	-0.016	99	257084	150.3	136.8	
21 1,1-Dichloroethene	96	3.734	3.750	-0.016	96	108153	20.0	18.6	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.760	3.770	-0.010	73	97579	20.0	14.0	
20 Acetone	58	3.766	3.782	-0.016	100	306202	250.0	318.8	
25 Iodomethane	142	3.946	3.949	-0.003	98	197880	20.0	17.8	
23 Isopropyl alcohol	45	3.959	3.952	0.007	29	98316	150.0	159.6	
26 Carbon disulfide	76	4.071	4.090	-0.019	99	320831	20.0	16.6	
28 Methyl acetate	43	4.190	4.212	-0.022	36	132886	20.0	22.0	M
27 3-Chloro-1-propene	41	4.228	4.241	-0.013	90	126541	20.0	16.4	
* 32 t-Butyl alcohol-d10 (IS)	65	4.479	4.453	0.026	49	298572	250.0	250.0	
30 Methylene Chloride	84	4.437	4.456	-0.019	91	117522	20.0	18.8	
33 2-Methyl-2-propanol	59	4.620	4.581	0.039	97	270030	200.0	214.1	
34 Acrylonitrile	53	4.783	4.800	-0.017	100	365446	100.0	102.5	
36 Methyl tert-butyl ether	73	4.838	4.848	-0.010	91	313286	20.0	17.0	
35 trans-1,2-Dichloroethene	96	4.841	4.854	-0.013	98	108593	20.0	20.7	
37 Hexane	57	5.268	5.284	-0.016	93	98623	20.0	13.3	
38 1,1-Dichloroethane	63	5.512	5.528	-0.016	97	175314	20.0	19.5	
40 Isopropyl ether	45	5.573	5.583	-0.010	94	284159	20.0	17.1	
41 2-Chloro-1,3-butadiene	53	5.615	5.631	-0.016	91	134556	20.0	16.2	
42 Tert-butyl ethyl ether	59	6.102	6.112	-0.010	97	275699	20.0	16.3	
44 2-Butanone (MEK)	43	6.311	6.324	-0.013	99	1063827	250.0	225.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 cis-1,2-Dichloroethene	96	6.346	6.353	-0.007	80	113095	20.0	19.3	
45 2,2-Dichloropropane	77	6.356	6.372	-0.016	78	159150	20.0	15.8	
47 Propionitrile	54	6.423	6.427	-0.004	98	231318	150.0	150.4	
49 Methacrylonitrile	67	6.622	6.645	-0.023	90	490531	150.0	139.3	
50 Chlorobromomethane	128	6.677	6.683	-0.006	92	61423	20.0	20.6	
51 Tetrahydrofuran	71	6.686	6.693	-0.007	80	131917	100.0	94.2	
52 Chloroform	83	6.824	6.834	-0.010	93	190955	20.0	18.8	
\$ 54 Dibromofluoromethane (Surr)	113	7.039	7.046	-0.007	93	249406	50.0	52.8	
55 1,1,1-Trichloroethane	97	7.052	7.062	-0.010	97	183349	20.0	18.5	
56 Cyclohexane	56	7.155	7.161	-0.006	89	168615	20.0	14.7	
58 Carbon tetrachloride	117	7.261	7.270	-0.009	90	151185	20.0	17.9	
57 1,1-Dichloropropene	75	7.270	7.270	0.000	94	135888	20.0	17.5	
59 Isobutyl alcohol	41	7.440	7.428	0.012	93	200514	500.0	472.6	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.501	7.502	-0.001	77	61122	50.0	51.6	
61 Benzene	78	7.530	7.537	-0.007	97	406228	20.0	18.7	
62 1,2-Dichloroethane	62	7.598	7.611	-0.013	96	137283	20.0	18.9	
64 Tert-amyl methyl ether	73	7.716	7.720	-0.004	98	288986	20.0	16.7	
66 n-Heptane	43	7.941	7.941	0.000	83	91248	20.0	13.8	
* 65 Fluorobenzene (IS)	96	7.931	7.944	-0.013	99	948005	50.0	50.0	
67 n-Butanol	56	8.304	8.304	0.000	90	288306	1000.0	819.9	
68 Trichloroethene	95	8.410	8.413	-0.003	96	102547	20.0	17.6	
70 Methylcyclohexane	83	8.714	8.724	-0.010	90	156908	20.0	14.4	
72 2-ethoxy-2-methyl butane	87	8.750	8.753	-0.003	92	137666	20.0	15.8	
71 1,2-Dichloropropane	63	8.743	8.756	-0.013	74	99336	20.0	18.2	
74 Methyl methacrylate	69	8.827	8.830	-0.003	93	82672	20.0	16.1	
75 1,4-Dioxane	88	8.827	8.833	-0.006	72	44153	500.0	516.3	
73 Dibromomethane	93	8.852	8.859	-0.007	96	71100	20.0	18.4	
77 Dichlorobromomethane	83	9.090	9.090	0.000	99	121782	20.0	18.1	
78 2-Nitropropane	41	9.369	9.372	-0.003	99	35728	20.0	13.8	
79 2-Chloroethyl vinyl ether	63	9.443	9.446	-0.003	92	60502	20.0	15.7	a
81 cis-1,3-Dichloropropene	75	9.619	9.623	-0.004	94	132469	20.0	16.0	
83 4-Methyl-2-pentanone (MIBK)	43	9.799	9.802	-0.003	97	2310560	250.0	254.8	
\$ 84 Toluene-d8 (Surr)	98	9.924	9.921	0.003	94	951834	50.0	50.0	
85 Toluene	92	9.995	9.998	-0.003	98	250121	20.0	18.5	
86 trans-1,3-Dichloropropene	75	10.245	10.252	-0.007	93	121668	20.0	16.8	
87 Ethyl methacrylate	69	10.306	10.309	-0.003	89	135738	20.0	15.9	
88 1,1,2-Trichloroethane	97	10.444	10.451	-0.006	90	91680	20.0	19.3	
90 Tetrachloroethene	166	10.534	10.531	0.003	97	107674	20.0	18.1	
91 1,3-Dichloropropane	76	10.611	10.611	0.000	91	143746	20.0	18.7	
94 2-Hexanone	43	10.662	10.666	-0.004	96	1493288	250.0	250.2	
96 Chlorodibromomethane	129	10.816	10.820	-0.004	90	98086	20.0	19.1	
98 Ethylene Dibromide	107	10.929	10.929	-0.001	99	95755	20.0	19.0	
* 101 Chlorobenzene-d5 (IS)	117	11.355	11.355	0.000	85	694987	50.0	50.0	
103 1-Chlorohexane	91	11.362	11.362	0.000	97	107934	20.0	14.5	
102 Chlorobenzene	112	11.381	11.381	0.000	96	271375	20.0	18.8	
104 1,1,1,2-Tetrachloroethane	131	11.458	11.465	-0.007	93	111871	20.0	19.0	
105 Ethylbenzene	91	11.464	11.465	-0.001	98	471634	20.0	17.7	
106 m-Xylene & p-Xylene	106	11.580	11.580	0.000	98	376605	40.0	35.8	
108 o-Xylene	106	11.907	11.907	0.000	96	192838	20.0	17.3	
109 Styrene	104	11.920	11.923	-0.003	95	282392	20.0	17.3	
110 Bromoform	173	12.077	12.081	-0.004	96	72044	20.0	18.5	
111 Isopropylbenzene	105	12.202	12.206	-0.004	96	497175	20.0	18.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 114 4-Bromofluorobenzene (Surr)	95	12.347	12.347	0.000	91	337997	50.0	48.9	
116 1,1,2,2-Tetrachloroethane	83	12.450	12.450	0.000	96	181890	20.0	19.3	
115 Bromobenzene	156	12.466	12.466	0.000	97	122681	20.0	18.5	
119 trans-1,4-Dichloro-2-butene	53	12.475	12.475	0.000	92	166727	100.0	60.6	
118 1,2,3-Trichloropropane	110	12.498	12.498	0.000	87	59364	20.0	19.7	
120 N-Propylbenzene	91	12.530	12.530	0.000	98	569498	20.0	17.4	
121 2-Chlorotoluene	126	12.610	12.610	0.000	97	121434	20.0	17.1	
122 1,3,5-Trimethylbenzene	105	12.665	12.665	0.000	95	407422	20.0	16.3	
123 4-Chlorotoluene	126	12.703	12.703	0.000	97	114567	20.0	17.1	
125 tert-Butylbenzene	134	12.908	12.909	-0.001	93	79558	20.0	16.3	
127 1,2,4-Trimethylbenzene	105	12.950	12.950	0.000	97	419292	20.0	16.4	
128 sec-Butylbenzene	105	13.072	13.072	0.000	94	492638	20.0	16.2	
131 1,3-Dichlorobenzene	146	13.172	13.172	0.000	98	225955	20.0	17.4	
132 4-Isopropyltoluene	119	13.178	13.178	0.000	97	414352	20.0	15.3	
* 133 1,4-Dichlorobenzene-d4	152	13.226	13.226	0.000	94	430990	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.245	13.242	0.003	95	239022	20.0	18.1	
148 1,2,3-Trimethylbenzene	105	13.255	13.255	0.000	99	428100	20.0	15.9	
170 Benzyl chloride	91	13.322	13.322	0.000	98	312428	20.0	16.4	
171 1,3-Diethylbenzene	119	13.377	13.377	0.000	95	256959	20.0	16.0	
172 p-Diethylbenzene	119	13.451	13.448	0.003	93	268457	20.0	16.3	
173 n-Butylbenzene	92	13.470	13.467	0.003	97	209459	20.0	16.5	
174 1,2-Dichlorobenzene	146	13.508	13.505	0.003	98	253043	20.0	18.2	
175 o-diethylbenzene	119	13.525	13.521	0.003	94	212662	20.0	15.9	
176 1,2-Dibromo-3-Chloropropane	75	14.048	14.048	0.000	86	48866	20.0	16.8	
177 1,3,5-Trichlorobenzene	180	14.170	14.170	0.000	97	171213	20.0	17.3	
179 1,2,4-Trichlorobenzene	180	14.596	14.596	0.000	94	172710	20.0	17.3	
180 Hexachlorobutadiene	225	14.680	14.677	0.003	98	55768	20.0	16.3	
182 Naphthalene	128	14.782	14.783	-0.001	97	674553	20.0	17.1	
183 1,2,3-Trichlorobenzene	180	14.927	14.927	0.000	96	179294	20.0	17.9	
184 2-Methylnaphthalene	142	15.578	15.575	0.003	92	330639	20.0	15.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LCS_2CEVE_00179

Amount Added: 50.00

Units: uL

MSV_LCS_ACROL_00178

Amount Added: 50.00

Units: uL

MSV_LCS_Gases_00206

Amount Added: 50.00

Units: uL

MSV_LCS_VOC#1_00175

Amount Added: 50.00

Units: uL

MSV_Cent_ISSS_00029

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 07-Jul-2024 22:02:44

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X03.D

Injection Date: 07-Jul-2024 20:31:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

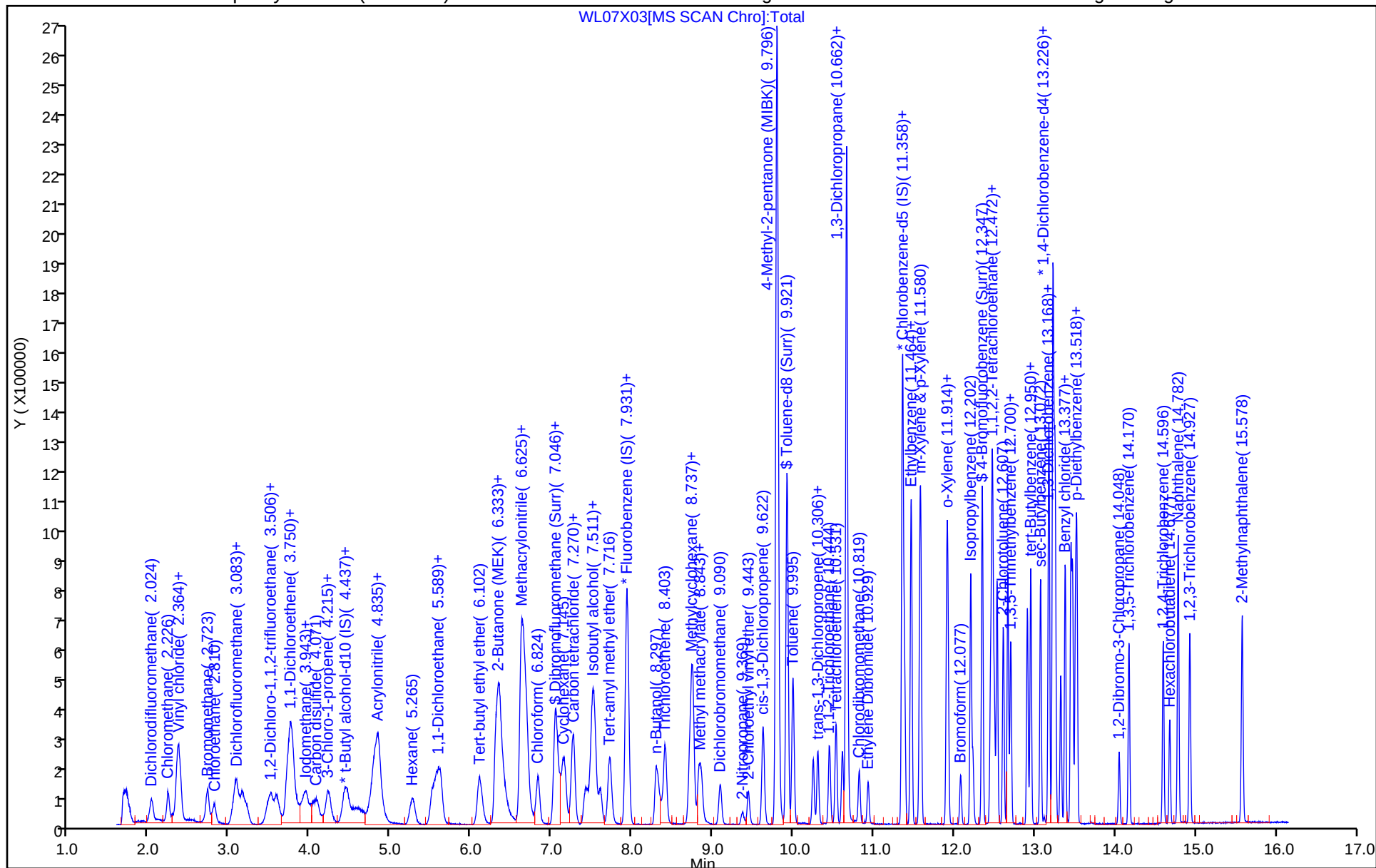
ALS Bottle#: 3

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\WL07X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 07-Jul-2024 20:31:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118658-004
Misc. Info.: LCS
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20240707-118658.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2024 22:02:40 Calib Date: 03-Jun-2024 23:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240603-115635.b\WU03X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1616

First Level Reviewer: JS6E

Date: 07-Jul-2024 20:53:48

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	52.8	105.62
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	51.6	103.28
\$ 84 Toluene-d8 (Surr)	50.0	50.0	100.05
\$ 114 4-Bromofluorobenzene (Surr)	50.0	48.9	97.84

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Instrument ID: 9137

Start Date: 06/03/2024 17:08

Analysis Batch Number: 513039

End Date: 06/04/2024 02:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-513039/1		06/03/2024 17:08	1	WU13T01.D	R-624Si1MS 30m 0.25 (mm)
IC 410-513039/3		06/03/2024 17:42	1	WU03X02.D	R-624Si1MS 30m 0.25 (mm)
IC 410-513039/4		06/03/2024 18:04	1	WU03X03.D	R-624Si1MS 30m 0.25 (mm)
IC 410-513039/5		06/03/2024 18:26	1	WU03X04.D	R-624Si1MS 30m 0.25 (mm)
IC 410-513039/6		06/03/2024 18:48	1	WU03X05.D	R-624Si1MS 30m 0.25 (mm)
CCV 410-513039/1006		06/03/2024 18:48	1		R-624Si1MS 30m 0.25 (mm)
IC 410-513039/7		06/03/2024 19:10	1	WU03X06.D	R-624Si1MS 30m 0.25 (mm)
IC 410-513039/8		06/03/2024 19:32	1	WU03X07.D	R-624Si1MS 30m 0.25 (mm)
ICV 410-513039/10		06/03/2024 20:16	1		R-624Si1MS 30m 0.25 (mm)
IC 410-513039/12		06/03/2024 21:00	1	WU03X11.D	R-624Si1MS 30m 0.25 (mm)
IC 410-513039/13		06/03/2024 21:22	1	WU03X12.D	R-624Si1MS 30m 0.25 (mm)
IC 410-513039/14		06/03/2024 21:44	1	WU03X13.D	R-624Si1MS 30m 0.25 (mm)
IC 410-513039/15		06/03/2024 22:06	1	WU03X14.D	R-624Si1MS 30m 0.25 (mm)
ICIS 410-513039/16		06/03/2024 22:27	1	WU03X15.D	R-624Si1MS 30m 0.25 (mm)
CCVIS 410-513039/1016		06/03/2024 22:27	1		R-624Si1MS 30m 0.25 (mm)
IC 410-513039/17		06/03/2024 22:49	1	WU03X16.D	R-624Si1MS 30m 0.25 (mm)
IC 410-513039/18		06/03/2024 23:11	1	WU03X17.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/04/2024 00:39	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/04/2024 01:01	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/04/2024 01:23	1		R-624Si1MS 30m 0.25 (mm)
ICV 410-513039/26		06/04/2024 02:07	1	WU03X25.D	R-624Si1MS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Instrument ID: 9137

Start Date: 06/04/2024 10:58

Analysis Batch Number: 513267

End Date: 06/04/2024 21:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-513267/1		06/04/2024 10:58	1		R-624SiIMS 30m 0.25 (mm)
CCVIS 410-513267/3		06/04/2024 11:41	1		R-624SiIMS 30m 0.25 (mm)
ICV 410-513267/4		06/04/2024 12:03	1	WU04X03.D	R-624SiIMS 30m 0.25 (mm)
ZZZZZ		06/04/2024 12:25	1		R-624SiIMS 30m 0.25 (mm)
ZZZZZ		06/04/2024 12:47	1		R-624SiIMS 30m 0.25 (mm)
ZZZZZ		06/04/2024 13:09	1		R-624SiIMS 30m 0.25 (mm)
ZZZZZ		06/04/2024 13:31	1		R-624SiIMS 30m 0.25 (mm)
ZZZZZ		06/04/2024 14:15	1		R-624SiIMS 30m 0.25 (mm)
ZZZZZ		06/04/2024 14:37	1		R-624SiIMS 30m 0.25 (mm)
ZZZZZ		06/04/2024 16:49	1		R-624SiIMS 30m 0.25 (mm)
ZZZZZ		06/04/2024 17:11	1		R-624SiIMS 30m 0.25 (mm)
ZZZZZ		06/04/2024 17:33	1		R-624SiIMS 30m 0.25 (mm)
ZZZZZ		06/04/2024 19:44	1		R-624SiIMS 30m 0.25 (mm)
ZZZZZ		06/04/2024 20:06	1		R-624SiIMS 30m 0.25 (mm)
ZZZZZ		06/04/2024 20:28	1		R-624SiIMS 30m 0.25 (mm)
ZZZZZ		06/04/2024 20:50	1		R-624SiIMS 30m 0.25 (mm)
ZZZZZ		06/04/2024 21:12	1		R-624SiIMS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-177863-1

SDG No.:

Instrument ID: 9137

Start Date: 07/07/2024 19:32

Analysis Batch Number: 525333

End Date: 07/08/2024 06:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-525333/1		07/07/2024 19:32	1	WL07T01.D	R-624Si1MS 30m 0.25 (mm)
CCVIS 410-525333/3		07/07/2024 20:09	1	WL07X02.D	R-624Si1MS 30m 0.25 (mm)
LCS 410-525333/4		07/07/2024 20:31	1	WL07X03.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/07/2024 20:53	1		R-624Si1MS 30m 0.25 (mm)
MB 410-525333/6		07/07/2024 21:15	1	WL07X05.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/07/2024 21:36	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/07/2024 21:58	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/07/2024 22:20	1		R-624Si1MS 30m 0.25 (mm)
410-177863-1	HD-QC1-0/1-4	07/07/2024 22:42	1	WL07X09.D	R-624Si1MS 30m 0.25 (mm)
410-177863-2	HD-QC1-0/1-3	07/07/2024 23:04	1	WL07X10.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/07/2024 23:26	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/07/2024 23:48	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/08/2024 00:09	1		R-624Si1MS 30m 0.25 (mm)
410-177863-3	HD-MW-88-0/1-0	07/08/2024 00:31	1	WL07X14.D	R-624Si1MS 30m 0.25 (mm)
410-177863-4	HD-MW-101S-0/1-0	07/08/2024 00:53	1	WL07X15.D	R-624Si1MS 30m 0.25 (mm)
410-177863-5	HD-MW-101D-0/1-0	07/08/2024 01:15	1	WL07X16.D	R-624Si1MS 30m 0.25 (mm)
410-177863-6	HD-MW-6-0/1-0	07/08/2024 01:37	1	WL07X17.D	R-624Si1MS 30m 0.25 (mm)
410-177863-7	HD-MW-5-0/1-0	07/08/2024 01:59	1	WL07X18.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/08/2024 02:20	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/08/2024 02:42	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/08/2024 03:04	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/08/2024 03:26	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/08/2024 03:48	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/08/2024 04:10	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/08/2024 04:31	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/08/2024 04:53	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/08/2024 05:15	10		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/08/2024 05:37	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/08/2024 05:59	10		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/08/2024 06:21	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/08/2024 06:43	10		R-624Si1MS 30m 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1

SDG No.: _____

Batch Number: 513039 Batch Start Date: 06/03/24 17:08 Batch Analyst: Campbell, Miranda EBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_4ppbEtOH 00651	MSV_CCV_2CEVE 00178	MSV_CCV_CYC 00008
BFB 410-513039/1		8260D			1 uL	1 uL				
IC 410-513039/3		8260D			5 mL	5 mL	2736			
IC 410-513039/4		8260D			5 mL	5 mL	2736			
IC 410-513039/5		8260D			5 mL	5 mL	2736			
IC 410-513039/6		8260D			5 mL	5 mL	2736			
IC 410-513039/7		8260D			5 mL	5 mL	2736			
IC 410-513039/8		8260D			5 mL	5 mL	2736			
IC 410-513039/12		8260D			5 mL	5 mL	2736	12.5 mL		
IC 410-513039/13		8260D			5 mL	5 mL	2736		4 uL	32 uL
IC 410-513039/14		8260D			5 mL	5 mL	2736		2 uL	8 uL
IC 410-513039/15		8260D			5 mL	5 mL	2736		4 uL	16 uL
ICIS 410-513039/16		8260D			5 mL	5 mL	2736		5 uL	10 uL
IC 410-513039/17		8260D			5 mL	5 mL	2736		5 uL	10 uL
IC 410-513039/18		8260D			5 mL	5 mL	2736		15 uL	30 uL
ICV 410-513039/26		8260D			5 mL	5 mL	2736			

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_EE 00007	MSV_CCV_ETOH 00006	MSV_CCV_GASES 00782	MSV_CCV_LKB 00009	MSV_CCV_OH_Sp 00010	MSV_CCV_Penta 00050
BFB 410-513039/1		8260D								
IC 410-513039/3		8260D			4 uL			4 uL		4 uL
IC 410-513039/4		8260D			2 uL			2 uL		2 uL
IC 410-513039/5		8260D			4 uL			4 uL		4 uL
IC 410-513039/6		8260D			5 uL			5 uL		5 uL
IC 410-513039/7		8260D			5 uL			5 uL		5 uL
IC 410-513039/8		8260D			15 uL			15 uL		15 uL
IC 410-513039/12		8260D								

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1

SDG No.: _____

Batch Number: 513039 Batch Start Date: 06/03/24 17:08 Batch Analyst: Campbell, Miranda EBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_EE 00007	MSV_CCV_ETOH 00006	MSV_CCV_GASES 00782	MSV_CCV_LKB 00009	MSV_CCV_OH_Sp 00010	MSV_CCV_Penta 00050
IC 410-513039/13		8260D				20 uL	2 uL		4 uL	
IC 410-513039/14		8260D				8 uL	1 uL		2 uL	
IC 410-513039/15		8260D				16 uL	2 uL		4 uL	
ICIS 410-513039/16		8260D				10 uL	2.5 uL		5 uL	
IC 410-513039/17		8260D				10 uL	2.5 uL		5 uL	
IC 410-513039/18		8260D				30 uL	7.5 uL		15 uL	
ICV 410-513039/26		8260D								

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_V5ACE 00036	MSV_CCV_VOC#1 00186	MSV_CCV_VOC#3 00182	MSV_Cent_ISO 00005	MSV_Cent_ISSS 00026	MSV_LCS_2CEVE 00174
BFB 410-513039/1		8260D								
IC 410-513039/3		8260D			4 uL			5 uL		
IC 410-513039/4		8260D			2 uL			5 uL		
IC 410-513039/5		8260D			4 uL			5 uL		
IC 410-513039/6		8260D			5 uL			5 uL		
IC 410-513039/7		8260D			5 uL			5 uL		
IC 410-513039/8		8260D			15 uL			5 uL		
IC 410-513039/12		8260D							5 uL	
IC 410-513039/13		8260D				4 uL	3.2 uL		5 uL	
IC 410-513039/14		8260D				2 uL	1.6 uL		5 uL	
IC 410-513039/15		8260D				4 uL	3.2 uL		5 uL	
ICIS 410-513039/16		8260D				5 uL	4 uL		5 uL	
IC 410-513039/17		8260D				5 uL	4 uL		5 uL	
IC 410-513039/18		8260D				15 uL	12 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.

8260D

Page 2 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1

SDG No.: _____

Batch Number: 513039 Batch Start Date: 06/03/24 17:08 Batch Analyst: Campbell, Miranda EBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_V5ACE 00036	MSV_CCV_VOC#1 00186	MSV_CCV_VOC#3 00182	MSV_Cent_ISO 00005	MSV_Cent_ISSS 00026	MSV_LCS_2CEVE 00174
ICV 410-513039/26		8260D							5 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_ACROL 00172	MSV_LCS_CYC 00008	MSV_LCS_ETOH 00006	MSV_LCS_Gases 00201	MSV_LCS_VOC#1 00169	MSV_Q_Acr_Std 00007
BFB 410-513039/1		8260D								
IC 410-513039/3		8260D								
IC 410-513039/4		8260D								
IC 410-513039/5		8260D								
IC 410-513039/6		8260D								
IC 410-513039/7		8260D								
IC 410-513039/8		8260D								
IC 410-513039/12		8260D								
IC 410-513039/13		8260D								
IC 410-513039/14		8260D								
IC 410-513039/15		8260D								
ICIS 410-513039/16		8260D								
IC 410-513039/17		8260D								
IC 410-513039/18		8260D								
ICV 410-513039/26		8260D			50 uL	50 uL	50 uL	50 uL	50 uL	2 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_BFB 00016	MSV_V_SMFreon 00039				
BFB 410-513039/1		8260D			1 uL					
IC 410-513039/3		8260D				2 uL				
IC 410-513039/4		8260D				1 uL				
IC 410-513039/5		8260D				2 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 3 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1

SDG No.: _____

Batch Number: 513039 Batch Start Date: 06/03/24 17:08 Batch Analyst: Campbell, Miranda EBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_BFB 000I6	MSV_V_SMFreon 00039				
IC 410-513039/6		8260D				2.5 uL				
IC 410-513039/7		8260D				2.5 uL				
IC 410-513039/8		8260D				7.5 uL				
IC 410-513039/12		8260D								
IC 410-513039/13		8260D								
IC 410-513039/14		8260D								
IC 410-513039/15		8260D								
ICIS 410-513039/16		8260D								
IC 410-513039/17		8260D								
IC 410-513039/18		8260D								
ICV 410-513039/26		8260D								

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1

SDG No.: _____

Batch Number: 513267 Batch Start Date: 06/04/24 10:58 Batch Analyst: Keller, Kelly EBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_Cent_ISSS 00026	MSV_LCS_ACR 00030	
ICV 410-513267/4		8260D			5 mL	5 mL	2736	5 uL	2 uL	

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1

SDG No.: _____

Batch Number: 525333 Batch Start Date: 07/07/24 19:32 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 410-525333/1		8260D			1 uL	1 uL				
CCVIS 410-525333/3		8260D			5 mL	5 mL				2750
LCS 410-525333/4		8260D			5 mL	5 mL				2750
MB 410-525333/6		8260D			5 mL	5 mL				2750
410-177863-A-1	HD-QC1-0/1-4	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-177863-A-2	HD-QC1-0/1-3	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-177863-A-3	HD-MW-88-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-177863-A-4	HD-MW-101S-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-177863-A-5	HD-MW-101D-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-177863-A-6	HD-MW-6-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-177863-A-7	HD-MW-5-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_2CEVE 00183	MSV_CCV_GASES 00815	MSV_CCV_VOC#1 00191	MSV_CCV_VOC#3 00187	MSV_Cent_ISSS 00029	MSV_LCS_2CEVE 00179
BFB 410-525333/1		8260D								
CCVIS 410-525333/3		8260D			5 uL	2.5 uL	5 uL	4 uL	5 uL	
LCS 410-525333/4		8260D							5 uL	50 uL
MB 410-525333/6		8260D							5 uL	
410-177863-A-1	HD-QC1-0/1-4	8260D	Water	T					5 uL	
410-177863-A-2	HD-QC1-0/1-3	8260D	Water	T					5 uL	
410-177863-A-3	HD-MW-88-0/1-0	8260D	Water	T					5 uL	
410-177863-A-4	HD-MW-101S-0/1-0	8260D	Water	T					5 uL	
410-177863-A-5	HD-MW-101D-0/1-0	8260D	Water	T					5 uL	
410-177863-A-6	HD-MW-6-0/1-0	8260D	Water	T					5 uL	
410-177863-A-7	HD-MW-5-0/1-0	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.

8260D

Page 1 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177863-1

SDG No.: _____

Batch Number: 525333 Batch Start Date: 07/07/24 19:32 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_ACROL 00178	MSV_LCS_Gases 00206	MSV_LCS_VOC#1 00175	MSV_V_BFB 00017		
BFB 410-525333/1		8260D						1 uL		
CCVIS 410-525333/3		8260D								
LCS 410-525333/4		8260D			50 uL	50 uL	50 uL			
MB 410-525333/6		8260D								
410-177863-A-1	HD-QC1-0/1-4	8260D	Water	T						
410-177863-A-2	HD-QC1-0/1-3	8260D	Water	T						
410-177863-A-3	HD-MW-88-0/1-0	8260D	Water	T						
410-177863-A-4	HD-MW-101S-0/1-0	8260D	Water	T						
410-177863-A-5	HD-MW-101D-0/1-0	8260D	Water	T						
410-177863-A-6	HD-MW-6-0/1-0	8260D	Water	T						
410-177863-A-7	HD-MW-5-0/1-0	8260D	Water	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 2 of 2

Shipping and Receiving Documents



Chain of Custody Record

Eurofins Lancaster Laboratories

Client Contact GROUNDWATER SCIENCES CORP 2550 MARKET PLACE ON INTERSTATE HARRISBURG, PA 17110		Project Manager: KELLY GALLAGHER Tel: [blank]		Site Contact: CARY LITTLEFIELD Lab Contact: [blank]		DOB: 6/26/24 Carrier: EUROPIUS		COC No: 10P1 of COCs	
747-443-1995		Analysis Turnaround Time Calendar (C) or Work Days (W) TAT if different from Below ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		8260D-QAPP LIST, SL		Job No. 10012.52		SDG No.	
Project Name: T1 AREA 1 QUARTERLY SAMPLING		Site: FYNOP		PO# 10012.52		Sample Identification		Sample Specific Notes:	
Sample Date		Sample Time		Sample Type		Matrix		# of Cont.	
HD-QL1-0/1-4		6/25/24 1400		W		W		3	
HD-QL1-0/1-3		6/25/24 1405		W		W		3	
HD-MW-88-0/1-0		6/25/24 1335		GW		W		3	
HD-MW-1015-0/1-0		1112		↓		↓		↓	
HD-MW-1010-0/1-0		0950		↓		↓		↓	
HD-MW-6-0/1-0		1300		↓		↓		↓	
HD-MW-5-0/1-0		1358		↓		↓		↓	
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other		Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months		Special Instructions/QC Requirements & Comments: TRIP BLANK ON SURFACE WATER COC.		Relinquished by: [Signature] Company: GSC Date/Time: 6/26/24 1233 Received by: [Signature] Company: ETA Date/Time: 6/26/24 1233	
Relinquished by: [Signature] Company: ELLIE Date/Time: 6/27/24 1453		Relinquished by: [Signature] Company: ELLIE Date/Time: 6/27/24 1453		Relinquished by: [Signature] Company: ELLIE Date/Time: 6/27/24 1453		Relinquished by: [Signature] Company: ELLIE Date/Time: 6/27/24 1453		Relinquished by: [Signature] Company: ELLIE Date/Time: 6/27/24 1453	

me

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-177863-1

Login Number: 177863

List Number: 1

Creator: Santiago, Nathaniel

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(<=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (<=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	