eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Emily Wade
Hydro-Terra Group
1106 Business Parkway South
Suite E
Westminster MD 21157

Generated 10/04/2024

JOB DESCRIPTION

fYNOP Quarterly Event

JOB NUMBER

410-189937-1

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

See page two for job notes and contact information.

Job Notes

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

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

Authorization

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Generated
10/04/2024

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Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Table of Contents

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.
¤	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
410-189937-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/27/2024 9:32 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 410-558851 recovered outside acceptance criteria, low biased, for Carbon disulfide and Methyl tert-butyl ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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

Detection Summary

Client: Hydro-Terra Group
Job ID: 410-189937-1
Project/Site: fYNOP Quarterly Event

Client Sample ID: HD-CW-21-0/1-0 — Lab Sample ID: 410-189937-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.52	J	1.0	0.30	ug/L	1		8260D	Total/NA
Tetrachloroethene	110		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	0.60	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-CW-22-0/1-0 — Lab Sample ID: 410-189937-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.64	J	1.0	0.30	ug/L	1		8260D	Total/NA
Tetrachloroethene	49		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	0.85	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-CW-23-0/1-0 — Lab Sample ID: 410-189937-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.47	J	1.0	0.30	ug/L	1		8260D	Total/NA
Tetrachloroethene	32		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	0.49	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-SPBA-EFF-0/1-0 — Lab Sample ID: 410-189937-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.55	J	1.0	0.30	ug/L	1		8260D	Total/NA
Tetrachloroethene	83		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	0.72	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-189937-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: HD-CW-21-0/1-0
Lab Sample ID: 410-189937-1

Date Collected: 09/26/24 13:43
Matrix: Water
Date Received: 09/27/24 09:32

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			10/03/24 15:18	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/03/24 15:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/03/24 15:18	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/03/24 15:18	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/03/24 15:18	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/03/24 15:18	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			10/03/24 15:18	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/03/24 15:18	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/03/24 15:18	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/03/24 15:18	1
2-Hexanone	ND		10	0.85	ug/L			10/03/24 15:18	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/03/24 15:18	1
Acetone	ND		20	0.70	ug/L			10/03/24 15:18	1
Benzene	ND		1.0	0.30	ug/L			10/03/24 15:18	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/03/24 15:18	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/03/24 15:18	1
Bromoform	ND		4.0	1.0	ug/L			10/03/24 15:18	1
Bromomethane	ND		1.0	0.30	ug/L			10/03/24 15:18	1
Carbon disulfide	ND	^c cn	5.0	0.30	ug/L			10/03/24 15:18	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/03/24 15:18	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/03/24 15:18	1
Chloroethane	ND		1.0	0.30	ug/L			10/03/24 15:18	1
Chloroform	**0.52**	**J**	1.0	0.30	ug/L			10/03/24 15:18	1
Chloromethane	ND		2.0	0.55	ug/L			10/03/24 15:18	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/03/24 15:18	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/03/24 15:18	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/03/24 15:18	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/03/24 15:18	1
Methyl tert-butyl ether	ND	^c cn	1.0	0.20	ug/L			10/03/24 15:18	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/03/24 15:18	1
Styrene	ND		5.0	0.30	ug/L			10/03/24 15:18	1
Tetrachloroethene	**110**		1.0	0.30	ug/L			10/03/24 15:18	1
Toluene	ND		1.0	0.30	ug/L			10/03/24 15:18	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/03/24 15:18	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/03/24 15:18	1
Trichloroethene	**0.60**	**J**	1.0	0.30	ug/L			10/03/24 15:18	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/03/24 15:18	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/03/24 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*10/03/24 15:18*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*10/03/24 15:18*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*10/03/24 15:18*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/03/24 15:18*	*1*

Client Sample ID: HD-CW-22-0/1-0
Lab Sample ID: 410-189937-2

Date Collected: 09/26/24 13:49
Matrix: Water
Date Received: 09/27/24 09:32

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			10/03/24 15:39	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/03/24 15:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/03/24 15:39	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/03/24 15:39	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/03/24 15:39	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/03/24 15:39	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			10/03/24 15:39	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/03/24 15:39	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/03/24 15:39	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/03/24 15:39	1
2-Hexanone	ND		10	0.85	ug/L			10/03/24 15:39	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/03/24 15:39	1
Acetone	ND		20	0.70	ug/L			10/03/24 15:39	1
Benzene	ND		1.0	0.30	ug/L			10/03/24 15:39	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/03/24 15:39	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/03/24 15:39	1
Bromoform	ND		4.0	1.0	ug/L			10/03/24 15:39	1
Bromomethane	ND		1.0	0.30	ug/L			10/03/24 15:39	1
Carbon disulfide	ND	^c cn	5.0	0.30	ug/L			10/03/24 15:39	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/03/24 15:39	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/03/24 15:39	1
Chloroethane	ND		1.0	0.30	ug/L			10/03/24 15:39	1
Chloroform	**0.64**	**J**	1.0	0.30	ug/L			10/03/24 15:39	1
Chloromethane	ND		2.0	0.55	ug/L			10/03/24 15:39	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/03/24 15:39	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/03/24 15:39	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/03/24 15:39	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/03/24 15:39	1
Methyl tert-butyl ether	ND	^c cn	1.0	0.20	ug/L			10/03/24 15:39	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/03/24 15:39	1
Styrene	ND		5.0	0.30	ug/L			10/03/24 15:39	1
Tetrachloroethene	**49**		1.0	0.30	ug/L			10/03/24 15:39	1
Toluene	ND		1.0	0.30	ug/L			10/03/24 15:39	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/03/24 15:39	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/03/24 15:39	1
Trichloroethene	**0.85**	**J**	1.0	0.30	ug/L			10/03/24 15:39	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/03/24 15:39	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/03/24 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*10/03/24 15:39*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*10/03/24 15:39*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*10/03/24 15:39*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/03/24 15:39*	*1*

Client Sample ID: HD-CW-23-0/1-0
Lab Sample ID: 410-189937-3

Date Collected: 09/26/24 13:53
Matrix: Water
Date Received: 09/27/24 09:32

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			10/03/24 15:59	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/03/24 15:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/03/24 15:59	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/03/24 15:59	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/03/24 15:59	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/03/24 15:59	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			10/03/24 15:59	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/03/24 15:59	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/03/24 15:59	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/03/24 15:59	1
2-Hexanone	ND		10	0.85	ug/L			10/03/24 15:59	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/03/24 15:59	1
Acetone	ND		20	0.70	ug/L			10/03/24 15:59	1
Benzene	ND		1.0	0.30	ug/L			10/03/24 15:59	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/03/24 15:59	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/03/24 15:59	1
Bromoform	ND		4.0	1.0	ug/L			10/03/24 15:59	1
Bromomethane	ND		1.0	0.30	ug/L			10/03/24 15:59	1
Carbon disulfide	ND	^c cn	5.0	0.30	ug/L			10/03/24 15:59	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/03/24 15:59	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/03/24 15:59	1
Chloroethane	ND		1.0	0.30	ug/L			10/03/24 15:59	1
Chloroform	**0.47**	**J**	1.0	0.30	ug/L			10/03/24 15:59	1
Chloromethane	ND		2.0	0.55	ug/L			10/03/24 15:59	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/03/24 15:59	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/03/24 15:59	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/03/24 15:59	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/03/24 15:59	1
Methyl tert-butyl ether	ND	^c cn	1.0	0.20	ug/L			10/03/24 15:59	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/03/24 15:59	1
Styrene	ND		5.0	0.30	ug/L			10/03/24 15:59	1
Tetrachloroethene	**32**		1.0	0.30	ug/L			10/03/24 15:59	1
Toluene	ND		1.0	0.30	ug/L			10/03/24 15:59	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/03/24 15:59	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/03/24 15:59	1
Trichloroethene	**0.49**	**J**	1.0	0.30	ug/L			10/03/24 15:59	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/03/24 15:59	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/03/24 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*10/03/24 15:59*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*10/03/24 15:59*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*10/03/24 15:59*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/03/24 15:59*	*1*

Client Sample ID: HD-SPBA-EFF-0/1-0
Lab Sample ID: 410-189937-4

Date Collected: 09/26/24 14:03
Matrix: Water
Date Received: 09/27/24 09:32

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			10/03/24 16:20	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/03/24 16:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/03/24 16:20	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/03/24 16:20	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/03/24 16:20	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/03/24 16:20	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			10/03/24 16:20	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/03/24 16:20	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/03/24 16:20	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/03/24 16:20	1
2-Hexanone	ND		10	0.85	ug/L			10/03/24 16:20	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/03/24 16:20	1
Acetone	ND		20	0.70	ug/L			10/03/24 16:20	1
Benzene	ND		1.0	0.30	ug/L			10/03/24 16:20	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/03/24 16:20	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/03/24 16:20	1
Bromoform	ND		4.0	1.0	ug/L			10/03/24 16:20	1
Bromomethane	ND		1.0	0.30	ug/L			10/03/24 16:20	1
Carbon disulfide	ND	^c cn	5.0	0.30	ug/L			10/03/24 16:20	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/03/24 16:20	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/03/24 16:20	1
Chloroethane	ND		1.0	0.30	ug/L			10/03/24 16:20	1
Chloroform	**0.55**	**J**	1.0	0.30	ug/L			10/03/24 16:20	1
Chloromethane	ND		2.0	0.55	ug/L			10/03/24 16:20	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/03/24 16:20	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/03/24 16:20	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/03/24 16:20	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/03/24 16:20	1
Methyl tert-butyl ether	ND	^c cn	1.0	0.20	ug/L			10/03/24 16:20	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/03/24 16:20	1
Styrene	ND		5.0	0.30	ug/L			10/03/24 16:20	1
Tetrachloroethene	**83**		1.0	0.30	ug/L			10/03/24 16:20	1
Toluene	ND		1.0	0.30	ug/L			10/03/24 16:20	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/03/24 16:20	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/03/24 16:20	1
Trichloroethene	**0.72**	**J**	1.0	0.30	ug/L			10/03/24 16:20	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/03/24 16:20	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/03/24 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*10/03/24 16:20*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*10/03/24 16:20*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*10/03/24 16:20*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/03/24 16:20*	*1*

Client Sample ID: Trip Blank
Lab Sample ID: 410-189937-5

Date Collected: 09/26/24 00:00
Matrix: Water
Date Received: 09/27/24 09:32

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			10/03/24 12:14	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/03/24 12:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/03/24 12:14	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/03/24 12:14	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/03/24 12:14	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/03/24 12:14	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			10/03/24 12:14	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/03/24 12:14	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/03/24 12:14	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/03/24 12:14	1
2-Hexanone	ND		10	0.85	ug/L			10/03/24 12:14	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/03/24 12:14	1
Acetone	ND		20	0.70	ug/L			10/03/24 12:14	1
Benzene	ND		1.0	0.30	ug/L			10/03/24 12:14	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/03/24 12:14	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/03/24 12:14	1
Bromoform	ND		4.0	1.0	ug/L			10/03/24 12:14	1
Bromomethane	ND		1.0	0.30	ug/L			10/03/24 12:14	1
Carbon disulfide	ND	^c cn	5.0	0.30	ug/L			10/03/24 12:14	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/03/24 12:14	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/03/24 12:14	1
Chloroethane	ND		1.0	0.30	ug/L			10/03/24 12:14	1
Chloroform	ND		1.0	0.30	ug/L			10/03/24 12:14	1
Chloromethane	ND		2.0	0.55	ug/L			10/03/24 12:14	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/03/24 12:14	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/03/24 12:14	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/03/24 12:14	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/03/24 12:14	1
Methyl tert-butyl ether	ND	^c cn	1.0	0.20	ug/L			10/03/24 12:14	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/03/24 12:14	1
Styrene	ND		5.0	0.30	ug/L			10/03/24 12:14	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/03/24 12:14	1
Toluene	ND		1.0	0.30	ug/L			10/03/24 12:14	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/03/24 12:14	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/03/24 12:14	1
Trichloroethene	ND		1.0	0.30	ug/L			10/03/24 12:14	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/03/24 12:14	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/03/24 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*10/03/24 12:14*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*10/03/24 12:14*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*10/03/24 12:14*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/03/24 12:14*	*1*

Default Detection Limits

Client: Hydro-Terra Group
Job ID: 410-189937-1
Project/Site: fYNOP Quarterly Event

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-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
Ethylene Dibromide	1.0	0.20	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: Hydro-Terra Group
Job ID: 410-189937-1
Project/Site: fYNOP Quarterly Event

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-189937-1	HD-CW-21-0/1-0	106	94	107	94
410-189937-2	HD-CW-22-0/1-0	106	93	107	94
410-189937-3	HD-CW-23-0/1-0	105	94	108	95
410-189937-4	HD-SPBA-EFF-0/1-0	107	92	110	94
410-189937-5	Trip Blank	105	92	111	95
LCS 410-558851/4	Lab Control Sample	103	99	104	102
LCSD 410-558851/5	Lab Control Sample Dup	102	99	103	100
MB 410-558851/7	Method Blank	106	92	109	96

Surrogate Legend

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

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

Lab Sample ID: MB 410-558851/7
Matrix: Water
Analysis Batch: 558851

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			10/03/24 11:33	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/03/24 11:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/03/24 11:33	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/03/24 11:33	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/03/24 11:33	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/03/24 11:33	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			10/03/24 11:33	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/03/24 11:33	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/03/24 11:33	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/03/24 11:33	1
2-Hexanone	ND		10	0.85	ug/L			10/03/24 11:33	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/03/24 11:33	1
Acetone	ND		20	0.70	ug/L			10/03/24 11:33	1
Benzene	ND		1.0	0.30	ug/L			10/03/24 11:33	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/03/24 11:33	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/03/24 11:33	1
Bromoform	ND		4.0	1.0	ug/L			10/03/24 11:33	1
Bromomethane	ND		1.0	0.30	ug/L			10/03/24 11:33	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/03/24 11:33	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/03/24 11:33	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/03/24 11:33	1
Chloroethane	ND		1.0	0.30	ug/L			10/03/24 11:33	1
Chloroform	ND		1.0	0.30	ug/L			10/03/24 11:33	1
Chloromethane	ND		2.0	0.55	ug/L			10/03/24 11:33	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/03/24 11:33	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/03/24 11:33	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/03/24 11:33	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/03/24 11:33	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/03/24 11:33	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/03/24 11:33	1
Styrene	ND		5.0	0.30	ug/L			10/03/24 11:33	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/03/24 11:33	1
Toluene	ND		1.0	0.30	ug/L			10/03/24 11:33	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/03/24 11:33	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/03/24 11:33	1
Trichloroethene	ND		1.0	0.30	ug/L			10/03/24 11:33	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/03/24 11:33	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/03/24 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*10/03/24 11:33*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*10/03/24 11:33*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*10/03/24 11:33*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/03/24 11:33*	*1*

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

Lab Sample ID: LCS 410-558851/4
Matrix: Water
Analysis Batch: 558851

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	19.4		ug/L		97	79 - 120
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	73 - 120
1,1,2,2-Tetrachloroethane	20.0	16.8		ug/L		84	72 - 120
1,1,2-Trichloroethane	20.0	18.7		ug/L		93	80 - 120
1,1-Dichloroethane	20.0	18.6		ug/L		93	80 - 120
1,1-Dichloroethene	20.0	21.4		ug/L		107	80 - 131
Ethylene Dibromide	20.0	17.4		ug/L		87	77 - 120
1,2-Dichloroethane	20.0	18.4		ug/L		92	73 - 124
1,2-Dichloropropane	20.0	17.9		ug/L		89	80 - 120
2-Butanone (MEK)	250	220		ug/L		88	59 - 135
2-Hexanone	250	247		ug/L		99	56 - 135
4-Methyl-2-pentanone (MIBK)	250	238		ug/L		95	62 - 133
Acetone	250	202		ug/L		81	57 - 143
Benzene	20.0	18.2		ug/L		91	80 - 120
Bromochloromethane	20.0	18.9		ug/L		94	80 - 120
Bromodichloromethane	20.0	18.6		ug/L		93	71 - 120
Bromoform	20.0	18.2		ug/L		91	51 - 120
Bromomethane	20.0	16.7		ug/L		83	53 - 128
Carbon disulfide	20.0	14.6		ug/L		73	65 - 128
Carbon tetrachloride	20.0	21.2		ug/L		106	64 - 134
Chlorobenzene	20.0	18.7		ug/L		94	80 - 120
Chloroethane	20.0	16.7		ug/L		83	55 - 123
Chloroform	20.0	18.6		ug/L		93	80 - 120
Chloromethane	20.0	15.6		ug/L		78	39 - 134
cis-1,2-Dichloroethene	20.0	18.5		ug/L		92	80 - 125
cis-1,3-Dichloropropene	20.0	15.9		ug/L		79	75 - 120
Dibromochloromethane	20.0	18.8		ug/L		94	71 - 120
Ethylbenzene	20.0	18.0		ug/L		90	80 - 120
Methyl tert-butyl ether	20.0	15.5		ug/L		78	69 - 122
Methylene Chloride	20.0	19.4		ug/L		97	80 - 120
Styrene	20.0	18.7		ug/L		94	80 - 120
Tetrachloroethene	20.0	19.9		ug/L		100	80 - 120
Toluene	20.0	18.0		ug/L		90	80 - 120
trans-1,2-Dichloroethene	20.0	19.5		ug/L		97	80 - 126
trans-1,3-Dichloropropene	20.0	15.7		ug/L		79	67 - 120
Trichloroethene	20.0	18.7		ug/L		94	80 - 120
Vinyl chloride	20.0	15.5		ug/L		78	56 - 120
Xylenes, Total	60.0	55.1		ug/L		92	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

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

Lab Sample ID: LCSD 410-558851/5
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 558851

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			20.0	18.9		ug/L		94	79 - 120	3	30
1,1,1-Trichloroethane			20.0	20.1		ug/L		101	73 - 120	1	30
1,1,2,2-Tetrachloroethane			20.0	16.6		ug/L		83	72 - 120	2	30
1,1,2-Trichloroethane			20.0	17.7		ug/L		88	80 - 120	6	30
1,1-Dichloroethane			20.0	18.9		ug/L		94	80 - 120	1	30
1,1-Dichloroethene			20.0	21.2		ug/L		106	80 - 131	1	30
Ethylene Dibromide			20.0	17.1		ug/L		85	77 - 120	2	30
1,2-Dichloroethane			20.0	17.9		ug/L		89	73 - 124	3	30
1,2-Dichloropropane			20.0	17.3		ug/L		87	80 - 120	3	30
2-Butanone (MEK)			250	215		ug/L		86	59 - 135	2	30
2-Hexanone			250	242		ug/L		97	56 - 135	2	30
4-Methyl-2-pentanone (MIBK)			250	233		ug/L		93	62 - 133	2	30
Acetone			250	203		ug/L		81	57 - 143	0	30
Benzene			20.0	17.9		ug/L		90	80 - 120	2	30
Bromochloromethane			20.0	18.9		ug/L		94	80 - 120	0	30
Bromodichloromethane			20.0	17.8		ug/L		89	71 - 120	5	30
Bromoform			20.0	18.0		ug/L		90	51 - 120	1	30
Bromomethane			20.0	16.1		ug/L		81	53 - 128	3	30
Carbon disulfide			20.0	13.1		ug/L		66	65 - 128	11	30
Carbon tetrachloride			20.0	20.9		ug/L		105	64 - 134	1	30
Chlorobenzene			20.0	18.5		ug/L		93	80 - 120	1	30
Chloroethane			20.0	16.0		ug/L		80	55 - 123	4	30
Chloroform			20.0	18.6		ug/L		93	80 - 120	0	30
Chloromethane			20.0	15.1		ug/L		76	39 - 134	3	30
cis-1,2-Dichloroethene			20.0	18.2		ug/L		91	80 - 125	1	30
cis-1,3-Dichloropropene			20.0	15.6		ug/L		78	75 - 120	2	30
Dibromochloromethane			20.0	17.7		ug/L		89	71 - 120	6	30
Ethylbenzene			20.0	17.7		ug/L		89	80 - 120	1	30
Methyl tert-butyl ether			20.0	15.4		ug/L		77	69 - 122	1	30
Methylene Chloride			20.0	18.8		ug/L		94	80 - 120	3	30
Styrene			20.0	17.9		ug/L		89	80 - 120	5	30
Tetrachloroethene			20.0	19.0		ug/L		95	80 - 120	5	30
Toluene			20.0	17.9		ug/L		89	80 - 120	1	30
trans-1,2-Dichloroethene			20.0	19.5		ug/L		97	80 - 126	0	30
trans-1,3-Dichloropropene			20.0	15.1		ug/L		76	67 - 120	4	30
Trichloroethene			20.0	18.7		ug/L		93	80 - 120	0	30
Vinyl chloride			20.0	15.6		ug/L		78	56 - 120	1	30
Xylenes, Total			60.0	54.2		ug/L		90	80 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

QC Association Summary

Client: Hydro-Terra Group
Job ID: 410-189937-1
Project/Site: fYNOP Quarterly Event

GC/MS VOA

Analysis Batch: 558851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-189937-1	HD-CW-21-0/1-0	Total/NA	Water	8260D	
410-189937-2	HD-CW-22-0/1-0	Total/NA	Water	8260D	
410-189937-3	HD-CW-23-0/1-0	Total/NA	Water	8260D	
410-189937-4	HD-SPBA-EFF-0/1-0	Total/NA	Water	8260D	
410-189937-5	Trip Blank	Total/NA	Water	8260D	
MB 410-558851/7	Method Blank	Total/NA	Water	8260D	
LCS 410-558851/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-558851/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Hydro-Terra Group
Job ID: 410-189937-1
Project/Site: fYNOP Quarterly Event

Client Sample ID: HD-CW-21-0/1-0
Lab Sample ID: 410-189937-1
Date Collected: 09/26/24 13:43
Matrix: Water
Date Received: 09/27/24 09:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	558851	DVW2	ELLE	10/03/24 15:18

Client Sample ID: HD-CW-22-0/1-0
Lab Sample ID: 410-189937-2
Date Collected: 09/26/24 13:49
Matrix: Water
Date Received: 09/27/24 09:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	558851	DVW2	ELLE	10/03/24 15:39

Client Sample ID: HD-CW-23-0/1-0
Lab Sample ID: 410-189937-3
Date Collected: 09/26/24 13:53
Matrix: Water
Date Received: 09/27/24 09:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	558851	DVW2	ELLE	10/03/24 15:59

Client Sample ID: HD-SPBA-EFF-0/1-0
Lab Sample ID: 410-189937-4
Date Collected: 09/26/24 14:03
Matrix: Water
Date Received: 09/27/24 09:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	558851	DVW2	ELLE	10/03/24 16:20

Client Sample ID: Trip Blank
Lab Sample ID: 410-189937-5
Date Collected: 09/26/24 00:00
Matrix: Water
Date Received: 09/27/24 09:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	558851	DVW2	ELLE	10/03/24 12:14

Laboratory References:

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

Accreditation/Certification Summary

Client: Hydro-Terra Group
Job ID: 410-189937-1
Project/Site: fYNOP Quarterly Event

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: Hydro-Terra Group
Job ID: 410-189937-1
Project/Site: fYNOP Quarterly Event

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: Hydro-Terra Group
Project/Site: fYNOP Quarterly Event

Job ID: 410-189937-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-189937-1	HD-CW-21-0/1-0	Water	09/26/24 13:43	09/27/24 09:32
410-189937-2	HD-CW-22-0/1-0	Water	09/26/24 13:49	09/27/24 09:32
410-189937-3	HD-CW-23-0/1-0	Water	09/26/24 13:53	09/27/24 09:32
410-189937-4	HD-SPBA-EFF-0/1-0	Water	09/26/24 14:03	09/27/24 09:32
410-189937-5	Trip Blank	Water	09/26/24 00:00	09/27/24 09:32

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Instrument ID: 26285 Analysis Batch Number: 531506

Lab Sample ID: IC 410-531506/12 Client Sample ID:

Date Analyzed: 07/23/24 20:11 Lab File ID: 5L23X06.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.67	Baseline	ULCP	07/24/24 10:41
1,3-Butadiene	1.78	Incomplete Integration	K4WN	07/23/24 22:47
Dichlorofluoromethane	2.26	Baseline	ULCP	07/24/24 10:41
Acrolein	2.57	Incomplete Integration	K4WN	07/23/24 22:47
2-Propanol	2.84	Baseline	ULCP	07/24/24 10:42
Carbon disulfide	2.89	Baseline	ULCP	07/24/24 10:47
Methyl acetate	3.01	Baseline	ULCP	07/24/24 10:42
Allyl chloride	3.02	Baseline	ULCP	07/24/24 10:43
Methylene Chloride	3.18	Baseline	ULCP	07/24/24 10:43
Methacrylonitrile	5.18	Baseline	ULCP	07/24/24 10:43
Methyl methacrylate	7.57	Baseline	ULCP	07/24/24 10:44
2-Chloroethyl vinyl ether	8.21	Baseline	ULCP	07/24/24 10:44

Lab Sample ID: IC 410-531506/13 Client Sample ID:

Date Analyzed: 07/23/24 20:31 Lab File ID: 5L23X07.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Pentane	2.27	Baseline	ULCP	07/24/24 10:48
Carbon disulfide	2.95	Baseline	ULCP	07/24/24 10:45
1,4-Dioxane	7.55	Baseline	ULCP	07/24/24 10:49

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Instrument ID: 26285 Analysis Batch Number: 531506

Lab Sample ID: IC 410-531506/14 Client Sample ID:

Date Analyzed: 07/23/24 20:52 Lab File ID: 5L23X08.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	1.78	Baseline	ULCP	07/24/24 11:18
n-Pentane	2.27	Baseline	ULCP	07/24/24 11:18
Carbon disulfide	2.96	Baseline	ULCP	07/24/24 11:18
1,4-Dioxane	7.53	Baseline	ULCP	07/24/24 11:19

Lab Sample ID: IC 410-531506/15 Client Sample ID:

Date Analyzed: 07/23/24 21:12 Lab File ID: 5L23X09.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	2.90	Baseline	ULCP	07/24/24 11:22
Ethyl acrylate	7.40	Baseline	ULCP	07/24/24 11:21
1,4-Dioxane	7.54	Baseline	ULCP	07/24/24 11:21

Lab Sample ID: ICIS 410-531506/16 Client Sample ID:

Date Analyzed: 07/23/24 21:32 Lab File ID: 5L23X10.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Propanol	2.82	Baseline	ULCP	07/24/24 06:36
Carbon disulfide	2.95	Baseline	ULCP	07/24/24 06:36

Lab Sample ID: IC 410-531506/17 Client Sample ID:

Date Analyzed: 07/23/24 21:52 Lab File ID: 5L23X11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	2.96	Split Peak	UJML	07/24/24 12:43
1,4-Dioxane	7.54	Baseline	ULCP	07/24/24 11:26

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Instrument ID: 26285 Analysis Batch Number: 531506

Lab Sample ID: IC 410-531506/18 Client Sample ID:

Date Analyzed: 07/23/24 22:12 Lab File ID: 5L23X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Pentane	2.27	Baseline	ULCP	07/24/24 11:28
1,4-Dioxane	7.54	Baseline	ULCP	07/24/24 13:35

Lab Sample ID: ICV 410-531506/20 Client Sample ID:

Date Analyzed: 07/23/24 22:53 Lab File ID: 5L23X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.01	Baseline	ULCP	07/24/24 13:50
Carbon disulfide	2.95	Baseline	ULCP	07/24/24 13:50
1,4-Dioxane	7.54	Baseline	ULCP	07/24/24 13:51

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Instrument ID: 26285 Analysis Batch Number: 558851

Lab Sample ID: CCVIS 410-558851/3 Client Sample ID:

Date Analyzed: 10/03/24 10:11 Lab File ID: 5C03X02.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	1.74	Incomplete Integration	DVW2	10/03/24 11:29
n-Pentane	2.31	Incomplete Integration	DVW2	10/03/24 11:29
Carbon disulfide	2.92	Incomplete Integration	DVW2	10/03/24 11:29
1,4-Dioxane	7.53	Incomplete Integration	DVW2	10/03/24 11:30

Lab Sample ID: LCS 410-558851/4 Client Sample ID:

Date Analyzed: 10/03/24 10:31 Lab File ID: 5C03X03.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	2.91	Incomplete Integration	DVW2	10/03/24 11:31
Methylene Chloride	3.18	Incomplete Integration	DVW2	10/03/24 11:31

Lab Sample ID: LCSD 410-558851/5 Client Sample ID:

Date Analyzed: 10/03/24 10:52 Lab File ID: 5C03X04.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	2.90	Incomplete Integration	DVW2	10/03/24 11:33

Lab Sample ID: 410-189937-5 Client Sample ID: Trip Blank

Date Analyzed: 10/03/24 12:14 Lab File ID: 5C03X08.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide		Invalid Compound ID	N9NA	10/04/24 07:26

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Instrument ID: 26285 Analysis Batch Number: 558851

Lab Sample ID: 410-189937-1 Client Sample ID: HD-CW-21-0/1-0

Date Analyzed: 10/03/24 15:18 Lab File ID: 5C03X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.10	Incomplete Integration	N9NA	10/04/24 07:38
1,1,2-Trichloroethane		Invalid Compound ID	N9NA	10/04/24 07:38
2-Butanone (MEK)		Invalid Compound ID	N9NA	10/04/24 07:37

Lab Sample ID: 410-189937-2 Client Sample ID: HD-CW-22-0/1-0

Date Analyzed: 10/03/24 15:39 Lab File ID: 5C03X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.08	Incomplete Integration	N9NA	10/04/24 07:39

Lab Sample ID: 410-189937-3 Client Sample ID: HD-CW-23-0/1-0

Date Analyzed: 10/03/24 15:59 Lab File ID: 5C03X19.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	5.41	Incomplete Integration	N9NA	10/04/24 07:39
Trichloroethene	7.07	Incomplete Integration	N9NA	10/04/24 07:40

Lab Sample ID: 410-189937-4 Client Sample ID: HD-SPBA-EFF-0/1-0

Date Analyzed: 10/03/24 16:20 Lab File ID: 5C03X20.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.08	Incomplete Integration	N9NA	10/04/24 07:40
Tetrachloroethene	9.49	Invalid Compound ID	N9NA	10/04/24 07:41
1,1,2-Trichloroethane		Invalid Compound ID	N9NA	10/04/24 07:41

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_4ppbEE_00594	07/26/24	07/21/24	DI Water, Lot DI 23226	1000 mL	MSV_CCV_2CEVE_00182	4 uL	2-Chloroethyl vinyl ether	4 ug/L
					MSV_CCV_CYC_00009	32 uL	Cyclohexanone	200.013 ug/L
					MSV_CCV_EE_00007	4 uL	Ethyl ether	3.99959 ug/L
					MSV_CCV_GASES_00826	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_00190	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-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
							cis-1,3-Dichloropropene	4 ug/L

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromochloromethane	4 ug/L
							Dibromomethane	4 ug/L
							Ethylbenzene	4 ug/L
							Ethylene Dibromide	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-trifluoroethane	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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

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_00186	3.2 uL	Acrolein	40.087 ug/L
							2-Butanone (MEK)	8 ug/L
							2-Hexanone	8 ug/L
							4-Methyl-2-pentanone (MIBK)	8 ug/L
							Acetone	8 ug/L
					MSV_V_Acr_Std_00007	0.8 uL	2-Ethylhexyl acrylate	4.0002 ug/L
							n-Butyl acrylate	4.00028 ug/L
							Ethyl acrylate	3.99919 ug/L
							Methyl acrylate	4.00019 ug/L
.MSV_CCV_2CEVE_00182	07/30/24	06/30/24	Methanol, Lot EH471	5 mL	MSV_V_2CLEVE_00187	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00187	04/30/26	Restek, Lot A0197472			(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_CCV_CYC_00009	01/10/25	07/10/24	50/50 MeOH/Water, Lot EH471	50 mL	MSV_VCYC_STK_00012	5.81 mL	Cyclohexanone	6250.4 ug/mL
..MSV_VCYC_STK_00012	01/10/25	07/10/24	50/50 MeOH/Water, Lot EH471	10 mL	MSV_CYC_00009	0.5379 g	Cyclohexanone	53790 ug/mL
...MSV_CYC_00009	06/30/27	Chem Service, Lot 14568900			(Purchased Reagent)		Cyclohexanone	1 g/g
.MSV_CCV_EE_00007	11/07/24	05/07/24	Methanol, Lot EH471	50 mL	MSV_EE_MISCSK_00014	0.917 mL	Ethyl ether	999.897 ug/mL
..MSV_EE_MISCSK_00014	11/07/24	05/07/24	Methanol, Lot EH471	10 mL	MSV_EE_Neat_00011	0.5452 g	Ethyl ether	54520 ug/mL
...MSV_EE_Neat_00011	06/30/27	Chem Service, Lot 14084700			(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_CCV_GASES_00826	07/26/24	Restek, Lot A0212054			(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
.MSV_CCV_VOC#1_00190	07/30/24	06/30/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00189	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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

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-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
							Ethylene Dibromide	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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_MegaMix#2_00183	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_00189	07/30/24		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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

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-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
							Ethylene Dibromide	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_00183	07/30/24		Restek, Lot A0197578		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

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_00186	07/30/24	06/30/24	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00021	0.5 mL	Acrolein	12527.2 ug/mL
					MSV_V_Ketones_00170	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_CCV_ACR_00021	08/10/24	06/11/24	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00041	9.393 mL	Acrolein	125272 ug/mL
...MSV_VACR_STK_00041	08/10/24	06/11/24	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00034	1.4356 g	Acrolein	133367 ug/mL
....MSV_ACROLEIN_00034	01/31/25	Chem Service, Lot 15004000			(Purchased Reagent)		Acrolein	0.929 g/g
..MSV_V_Ketones_00170	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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

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_V_Acr_Std_00007	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_MStk_2E6A_00004	0.885 mL	2-Ethylhexyl acrylate	5000.25 ug/mL
					MSV_MStk_BAcr_00005	0.908 mL	n-Butyl acrylate	5000.36 ug/mL
					MSV_MStk_EtAc_00004	0.998 mL	Ethyl acrylate	4998.98 ug/mL
					MSV_MStk_MAcr_00004	0.859 mL	Methyl acrylate	5000.24 ug/mL
..MSV_MStk_2E6A_00004	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_2Eth6Acry_00001	0.565 g	2-Ethylhexyl acrylate	56500 ug/mL
...MSV_2Eth6Acry_00001	02/28/28		Sigma Aldrich, Lot MKCN1302		(Purchased Reagent)		2-Ethylhexyl acrylate	1 g/g
..MSV_MStk_BAcr_00005	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_nButylAcr_00005	0.5507 g	n-Butyl acrylate	55070 ug/mL
...MSV_nButylAcr_00005	01/31/26		Chem Service, Lot 14061100		(Purchased Reagent)		n-Butyl acrylate	1 g/g
..MSV_MStk_EtAc_00004	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_EthylAcry_00003	0.5009 g	Ethyl acrylate	50090 ug/mL
...MSV_EthylAcry_00003	03/31/26		Chem Service, Lot 14239800		(Purchased Reagent)		Ethyl acrylate	1 g/g
..MSV_MStk_MAcr_00004	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_MethylAcr_00003	0.5821 g	Methyl acrylate	58210 ug/mL
...MSV_MethylAcr_00003	01/31/26		Chem Service, Lot 14104500		(Purchased Reagent)		Methyl acrylate	1 g/g
MSV_CCV_2CEVE_00185	08/20/24	07/21/24	Methanol, Lot EH471	5 mL	MSV_V_2CLEVE_00195	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
.MSV_V_2CLEVE_00195	05/31/27		Restek, Lot A0211425		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
MSV_CCV_CYC_00010	01/22/25	07/22/24	50/50 MeOH/Water, Lot EH471	200 mL	MSV_VCYC_STK_00013	8.495 mL	Cyclohexanone	6249.77 ug/mL
.MSV_VCYC_STK_00013	01/22/25	07/22/24	50/50 MeOH/Water, Lot EH471	10 mL	MSV_CYC_00010	1.4714 g	Cyclohexanone	147140 ug/mL
..MSV_CYC_00010	06/30/27		Chem Service, Lot 15471000		(Purchased Reagent)		Cyclohexanone	1 g/g
MSV_CCV_EE_00007	11/07/24	05/07/24	Methanol, Lot EH471	50 mL	MSV_EE_MISCSK_00014	0.917 mL	Ethyl ether	999.897 ug/mL
.MSV_EE_MISCSK_00014	11/07/24	05/07/24	Methanol, Lot EH471	10 mL	MSV_EE_Neat_00011	0.5452 g	Ethyl ether	54520 ug/mL
..MSV_EE_Neat_00011	06/30/27		Chem Service, Lot 14084700		(Purchased Reagent)		Ethyl ether	1 g/g
MSV_CCV_GASES_00843	07/29/24		Restek, Lot A0212054		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_CCV_GASES_00877	10/08/24		Restek, Lot A0212054		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_CCV_OH_Sp_00012	08/14/24	07/15/24	Methanol, Lot EH822	10 mL	MSV_V_Acr_Std_00007	2 mL	2-Ethylhexyl acrylate	1000.05 ug/mL
							n-Butyl acrylate	1000.07 ug/mL
							Ethyl acrylate	999.796 ug/mL
							Methyl acrylate	1000.05 ug/mL
.MSV_V_Acr_Std_00007	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_MStk_2E6A_00004	0.885 mL	2-Ethylhexyl acrylate	5000.25 ug/mL
					MSV_MStk_BAcr_00005	0.908 mL	n-Butyl acrylate	5000.36 ug/mL
					MSV_MStk_EtAc_00004	0.998 mL	Ethyl acrylate	4998.98 ug/mL
					MSV_MStk_MAcr_00004	0.859 mL	Methyl acrylate	5000.24 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSV_MStk_2E6A_00004	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_2Eth6Acry_00001	0.565 g	2-Ethylhexyl acrylate	56500 ug/mL
...MSV_2Eth6Acry_00001	02/28/28	Sigma Aldrich, Lot MKCN1302			(Purchased Reagent)		2-Ethylhexyl acrylate	1 g/g
..MSV_MStk_BAcr_00005	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_nButylAcr_00005	0.5507 g	n-Butyl acrylate	55070 ug/mL
...MSV_nButylAcr_00005	01/31/26	Chem Service, Lot 14061100			(Purchased Reagent)		n-Butyl acrylate	1 g/g
..MSV_MStk_EtAc_00004	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_EthylAcry_00003	0.5009 g	Ethyl acrylate	50090 ug/mL
...MSV_EthylAcry_00003	03/31/26	Chem Service, Lot 14239800			(Purchased Reagent)		Ethyl acrylate	1 g/g
..MSV_MStk_MAcr_00004	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_MethylAcr_00003	0.5821 g	Methyl acrylate	58210 ug/mL
...MSV_MethylAcr_00003	01/31/26	Chem Service, Lot 14104500			(Purchased Reagent)		Methyl acrylate	1 g/g
MSV_CCV_VOC#1_00193	08/20/24	07/21/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00194	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							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-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
							Ethylene Dibromide	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00189	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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00194	05/31/27		Restek, Lot A0211483		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	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
							Ethylene Dibromide	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00189	04/30/26		Restek, Lot A0197578		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,3-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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00203	10/30/24	09/30/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00200	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-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
							Ethylene Dibromide	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_00193	1 mL	Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_MegaMIX#1_00200	05/31/27		Restek, Lot A00211483		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,2-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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Ethylene Dibromide	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_00193	05/31/27		Restek, Lot A0212010		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
MSV_CCV_VOC#3_00189	08/10/24	07/21/24	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00021	0.5 mL	Acrolein	12527.2 ug/mL
					MSV_V_Ketones_00173	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
.MSV_CCV_ACR_00021	08/10/24	06/11/24	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00041	9.393 mL	Acrolein	125272 ug/mL
..MSV_VACR_STK_00041	08/10/24	06/11/24	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00034	1.4356 g	Acrolein	133367 ug/mL
...MSV_ACROLEIN_00034	01/31/25		Chem Service, Lot 15004000		(Purchased Reagent)		Acrolein	0.929 g/g
.MSV_V_Ketones_00173	01/31/26		Restek, Lot A0193494		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_CCV_VOC#3_00200	10/30/24	09/30/24	Methanol, Lot EH471	5 mL	MSV_V_Ketones_00200	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_00200	04/30/27		Restek, Lot A0210935		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_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_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_8260_SS_01214	12/11/24		Restek, Lot A0206374		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.MSV_Cus826_IS_00788	12/11/24		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_00031	03/06/25	09/09/24	Methanol, Lot EH822-US	50 mL	MSV_Cus826_IS_00797	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_00797	04/30/26		Restek, Lot A0197488		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_Cent_ISSS_00031	03/06/25	09/09/24	Methanol, Lot EH822-US	50 mL	MSV_8260_SS_01287	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_01287	04/30/29		Restek, Lot A0209669		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MSV_LCS_Gases_00208	07/28/24	07/21/24	Methanol, Lot EH471	25 mL	MSV_QC_2K_GAS_00227	0.5 mL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00227	07/28/24		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_00218	10/07/24	09/30/24	Methanol, Lot EH471	25 mL	MSV_QC_2K_GAS_00240	0.5 mL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00240	10/07/24		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_00177	08/20/24	07/21/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00218	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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Ethylene Dibromide	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_00214	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00193	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_00218	06/30/26		Restek, Lot A0211284		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylene Dibromide	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_00214	04/30/26		Restek, Lot A0197573		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00193	04/30/25		Restek, Lot A0194631		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00187	10/30/24	09/30/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00228	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-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
							Ethylene Dibromide	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_00226	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00223	1 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00228	05/31/27		Restek, Lot A0211284		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-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
							Ethylene Dibromide	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_00226	05/31/27		Restek, Lot A0212017		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00223	04/30/27		Restek, Lot A0209876		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_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	50.112 ug/mL
.MSV_VBFB_STK_00012	12/02/24	06/02/24	Methanol, Lot EH471	10 mL	MSV_4BFB_NEAT_00011	1.392 g	BFB	139200 ug/mL
..MSV_4BFB_NEAT_00011	05/31/25		Chem Service, Lot 15267000		(Purchased Reagent)		BFB	1 g/g

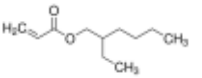
Reagent

MSV_2Eth6Acry_00001

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

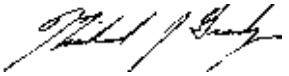
Certificate of Analysis

Product Name:
2-Ethylhexyl acrylate - 98%, contains ≥0.001-≤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)	≥ 97.5 %	99.6 %
Stabilizer Monomethyl Ether Hydroquinone (MEHQ)	0.001 - 0.110 %	0.002 %



Michael Grady, Manager
Quality Control
Milwaukee, WI US

Reagent

MSV_CCV_GASES_00826

RESTEK
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Certificate of Analysis

chromatographic plus

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom Gases Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Quality Confirmation Test

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

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

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

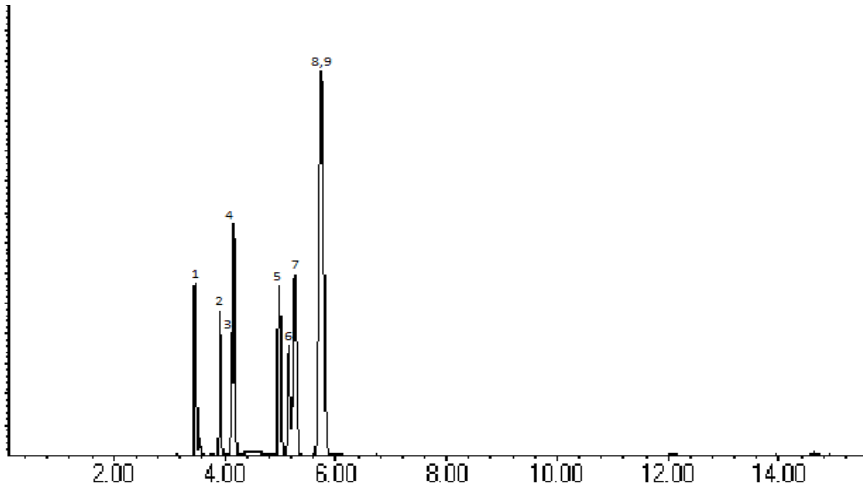
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



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

Brittany Federinko - Operations Tech I

Date Mixed: 28-May-2024 **Balance Serial #** B251644995

Dillan Murphy - Operations Technician I

Date Passed: 03-Jun-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_CCV_GASES_00843

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom Gases Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Quality Confirmation Test

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

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

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

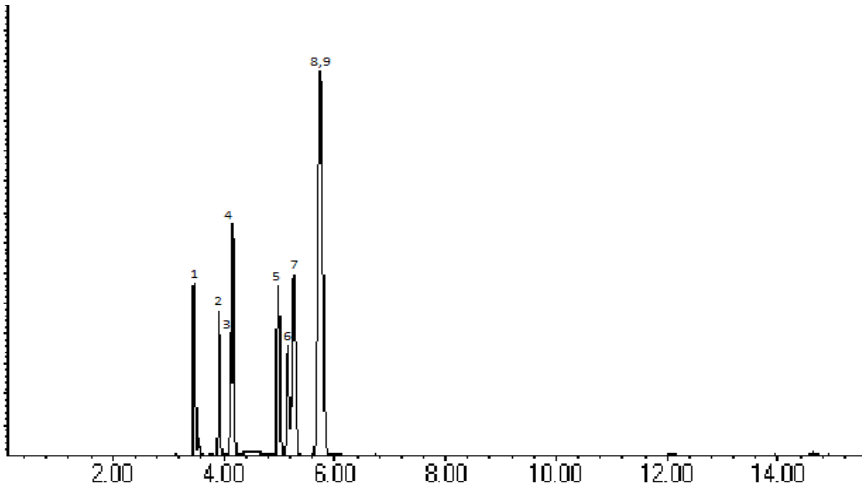
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



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

Brittany Federinko - Operations Tech I

Date Mixed: 28-May-2024 **Balance Serial #** B251644995

Dillan Murphy - Operations Technician I

Date Passed: 03-Jun-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_Cus826_IS_00788

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom 8260A IS Mix

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

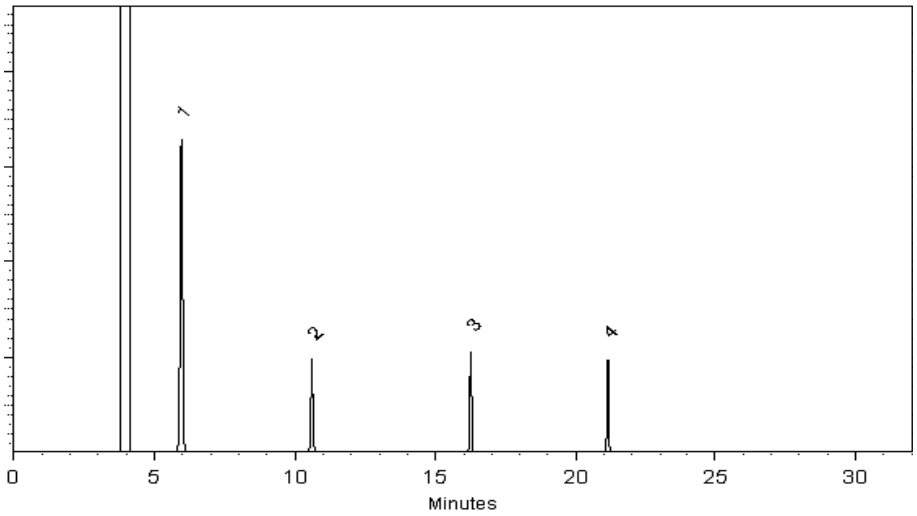
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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

Daniel Wasson - Operations Tech I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_Cus826_IS_00797

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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
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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.)

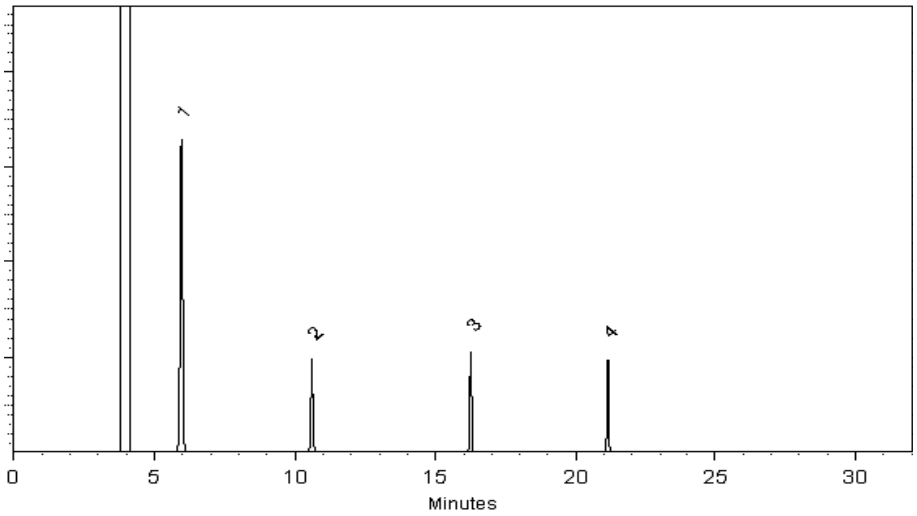
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Daniel Wasson - Operations Tech I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_EthylAcry_00003

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
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CERTIFICATE OF ANALYSIS

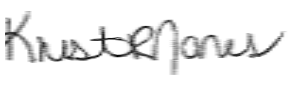
Ethyl acrylate

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.

PJLA Testing

PJLA Reference Material Producer

COA Form
Revision 3 (3/2015)

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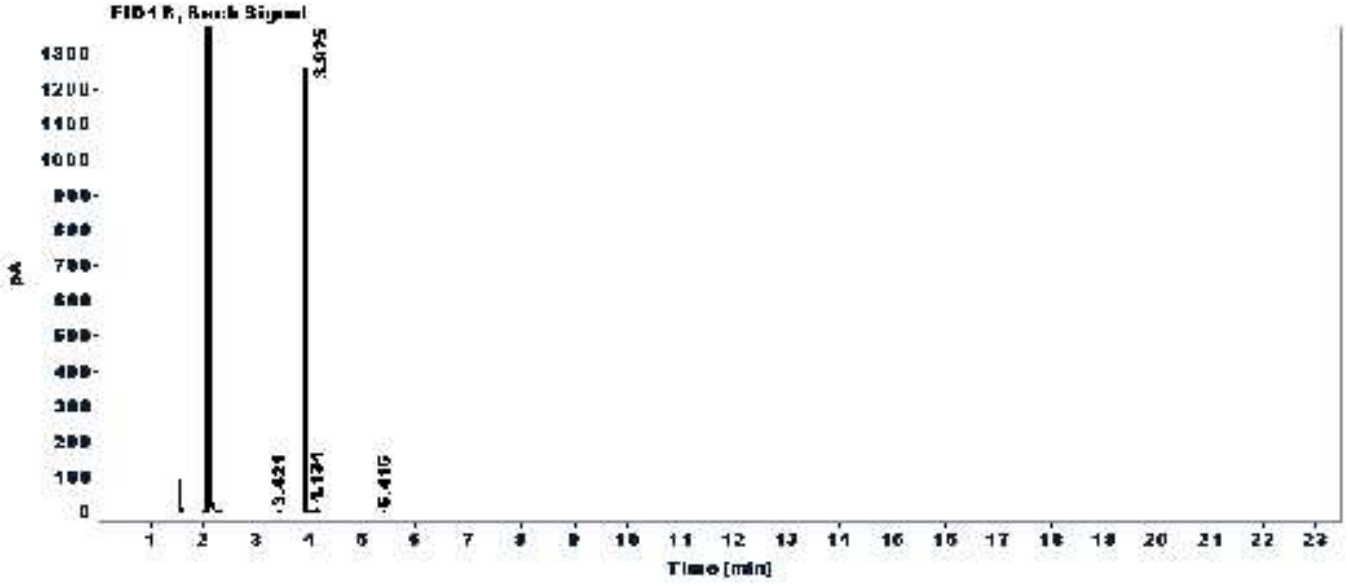
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

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%
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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		

Reagent

MSV_M_MIX2SEC_00214

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CERTIFIED REFERENCE MATERIAL

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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.SEC	CDCQG	99%	1,007.3 µg/mL	+/- 16.5025
11	n-Hexane (C6)	110-54-3.SEC	10188491	99%	1,009.3 µg/mL	+/- 16.5353
12	Diisopropyl ether (DIPE)	108-20-3.SEC	LL7TN-SH	99%	1,005.3 µg/mL	+/- 16.4697
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	S230420RSR	99%	1,005.3 µg/mL	+/- 16.4697
14	Ethyl-tert-butyl ether (ETBE)	637-92-3.SEC	UCI5B	98%	1,006.8 µg/mL	+/- 16.4935
15	Propionitrile	107-12-0.SEC	B4ZPC	99%	7,542.0 µg/mL	+/- 123.3262
16	Methacrylonitrile	126-98-7	1012014	99%	7,562.0 µg/mL	+/- 123.6532

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

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

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

Quality Confirmation Test

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

Carrier Gas:
helium-constant pressure 30 psi

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

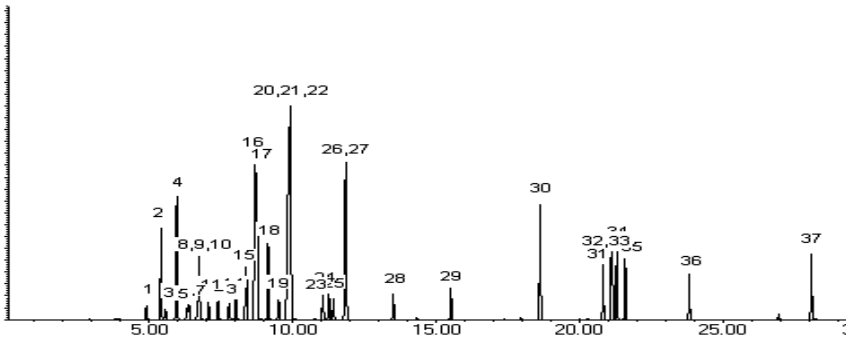
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
25.0 ml/min.

Inj. Vol
1µl



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

Bryan Snyder - Operations Tech I

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

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 19-Jun-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00189

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix® #1 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

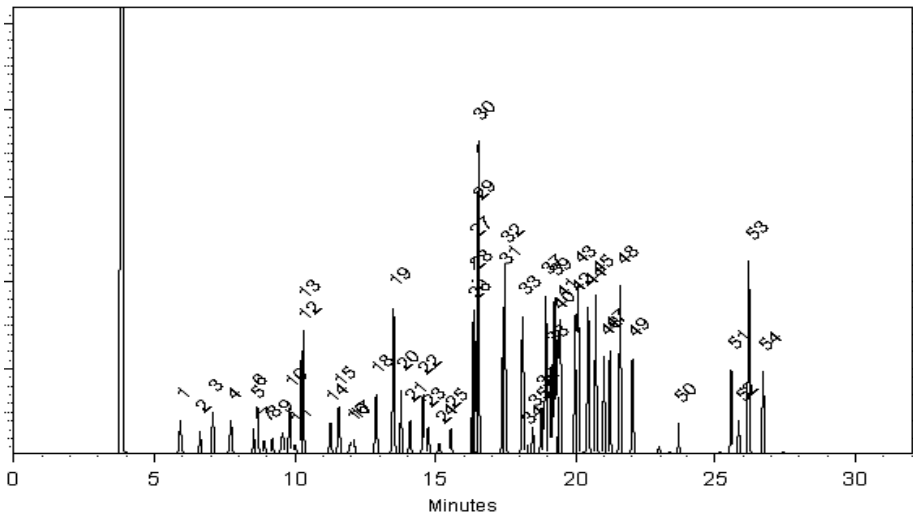
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Nick Yaw - Operations Tech I

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

Christie Mills - Operations Tech II - ARM QC

Date Passed: 05-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00194

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577486 **Lot No.:** A0211483

Description : Custom VOC MegaMix® #1 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

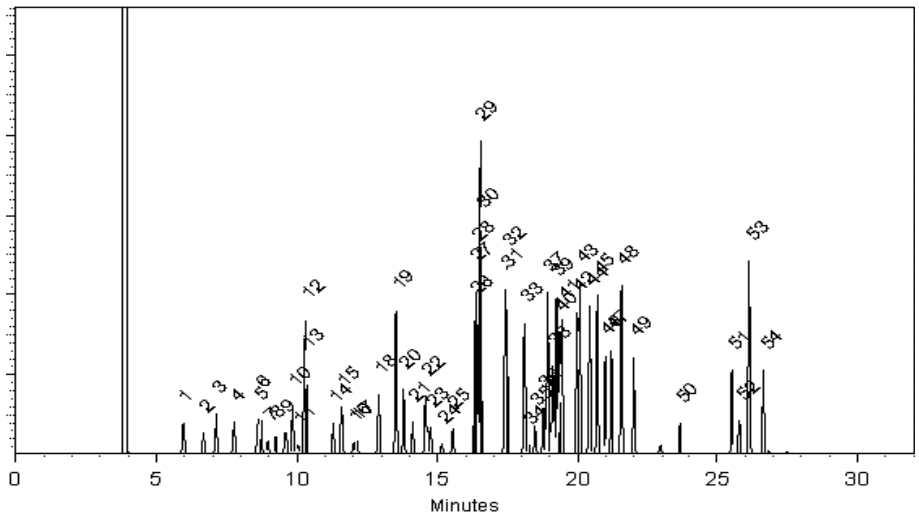
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Russ Bookhamer - Operations Technician I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00200

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577486 **Lot No.:** A0211483

Description : Custom VOC MegaMix® #1 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

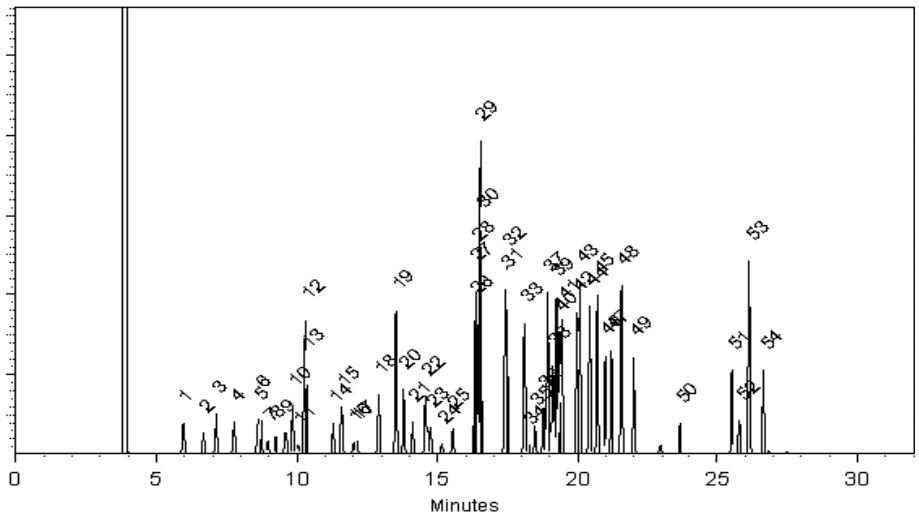
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Russ Bookhamer - Operations Technician I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00183

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix® #2 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Quality Confirmation Test

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

Carrier Gas:
helium-constant pressure 30 psi

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

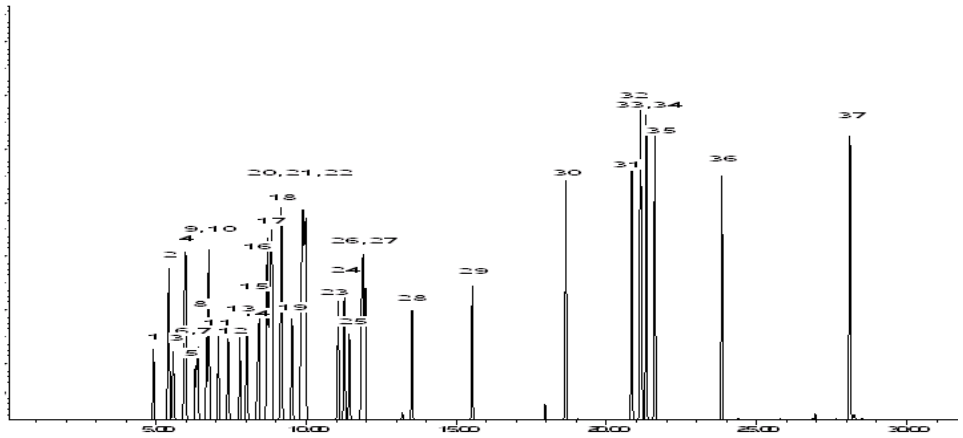
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
25.0 ml/min.

Inj. Vol
1µl



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

Sam Moodler - Operations Tech I

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

Marlina Cowan -- Operations Tech II ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00189

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix® #2 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Quality Confirmation Test

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

Carrier Gas:
helium-constant pressure 30 psi

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

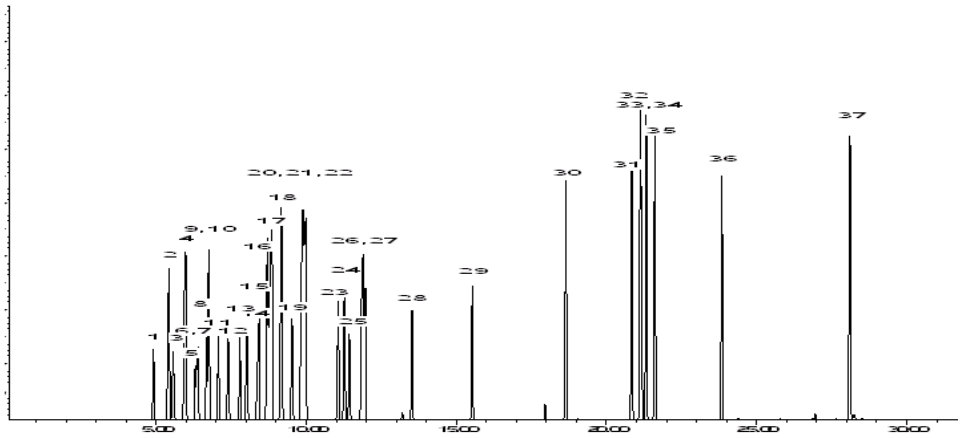
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
25.0 ml/min.

Inj. Vol
1µl



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

Sam Moodler - Operations Tech I

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

Marlina Cowan -- Operations Tech II ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00193

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix® #2 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Quality Confirmation Test

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

Carrier Gas:
helium-constant pressure 30 psi

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

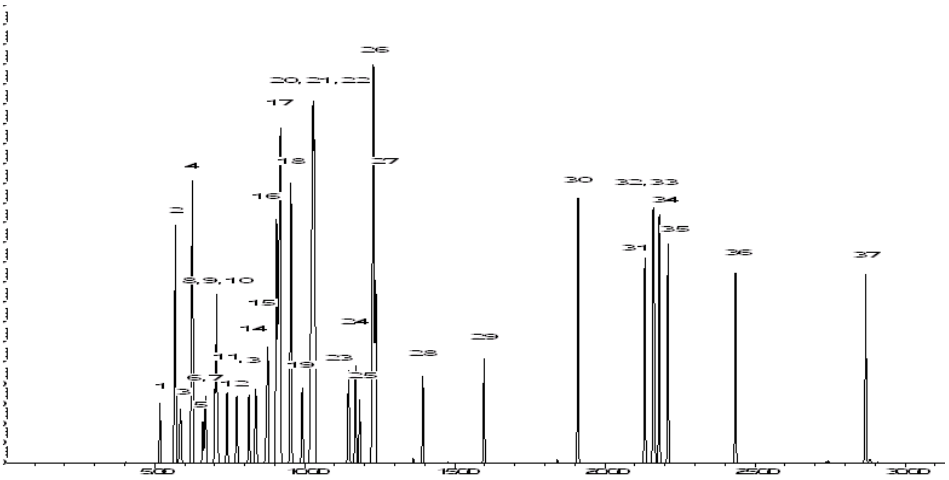
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
25.0 ml/min.

Inj. Vol
1µl



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

Brittany Federinko - Operations Tech I

Date Mixed: 24-May-2024 **Balance Serial #** B251644995

Marlina Cowan -- Operations Tech II ARM QC

Date Passed: 30-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

Manufacturing Notes:

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

Handling Notes:

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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

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

CERTIFICATE OF ANALYSIS

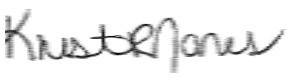
Methyl acrylate

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	C4H6O2
MOLECULAR WEIGHT	86.10
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

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

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

Certified By:



Kristin R Jones

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

PJLA Testing

PJLA Reference Material Producer

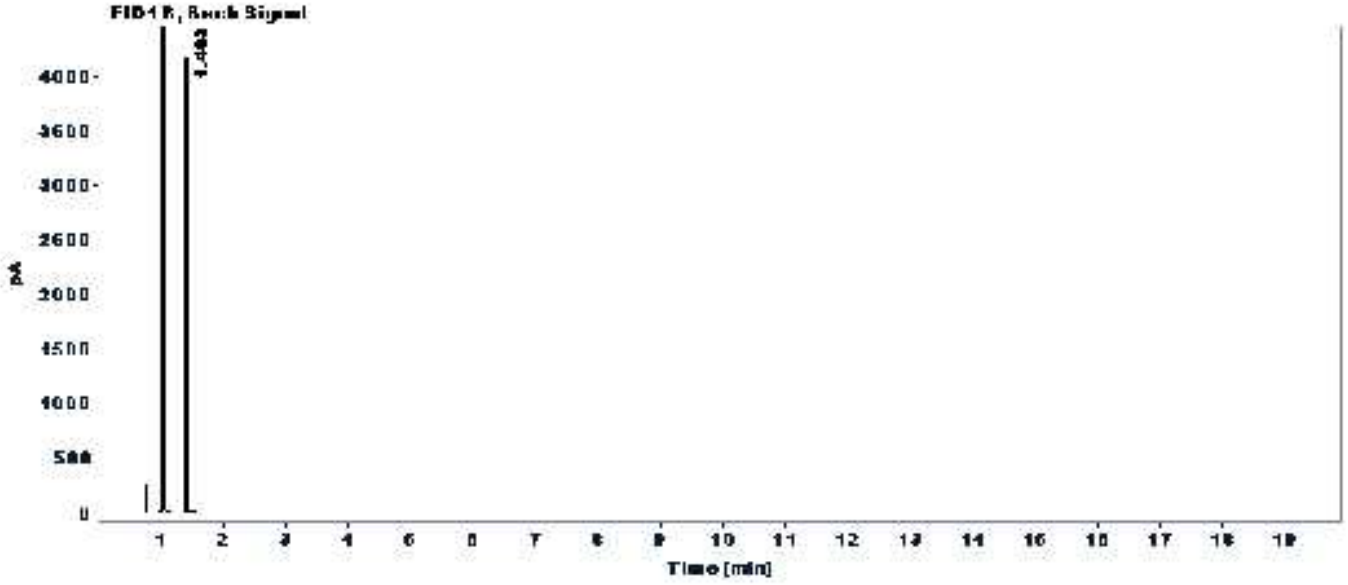
COA Form
Revision 3 (3/2015)

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

CERTIFICATE OF ANALYSIS

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		

Reagent

MSV_nButylAcr_00005

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

CERTIFICATE OF ANALYSIS

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	C7H12O2
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.

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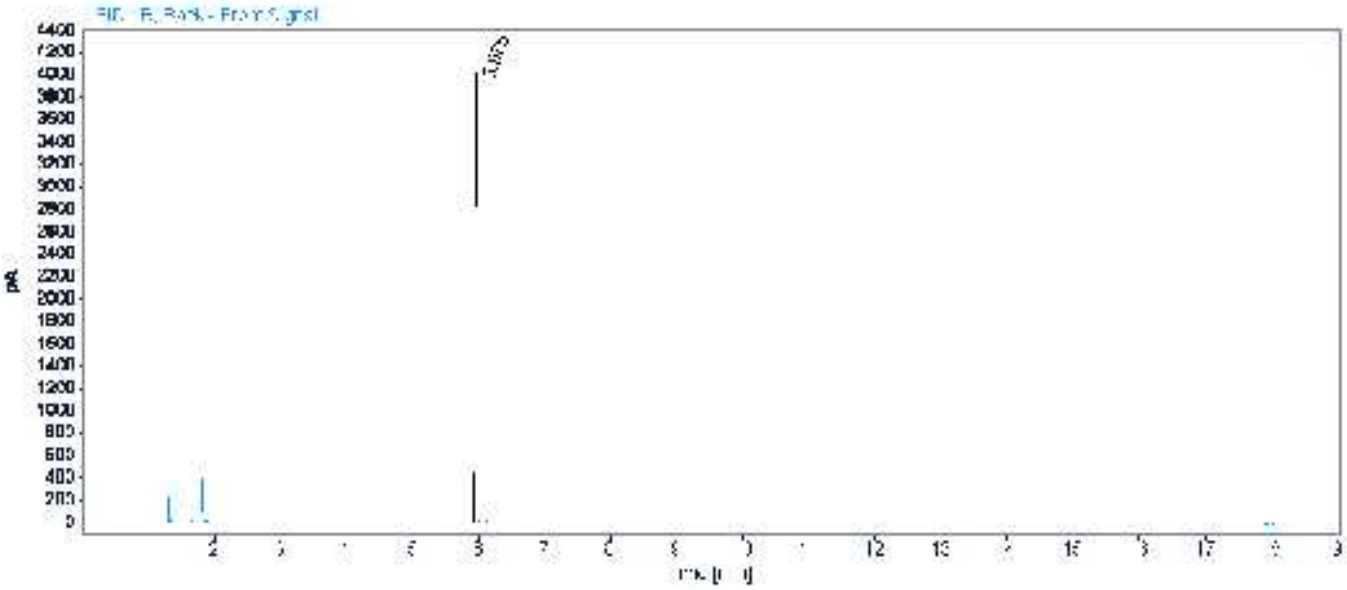
info@chemservice.com • www.chemservice.com

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		
		Location:	204
Instrument:	GC3	**Injection Vol:**	1.000
Injection date:	1/6/2020 9:50:14 AM	**# Of Injections:**	1
Column name:	HP-5ms Ultra Inert	**Diameter** 250.000 **Length** 30.000	**Particle Size** 0.250



Signal: FID1 B, Back - Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
5.975	BV	0.0296	8741.1309	3980.0339	100.0000
		Sum	8741.1309		

Reagent

MSV_Q_Ketones_00193

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Purity 99%

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

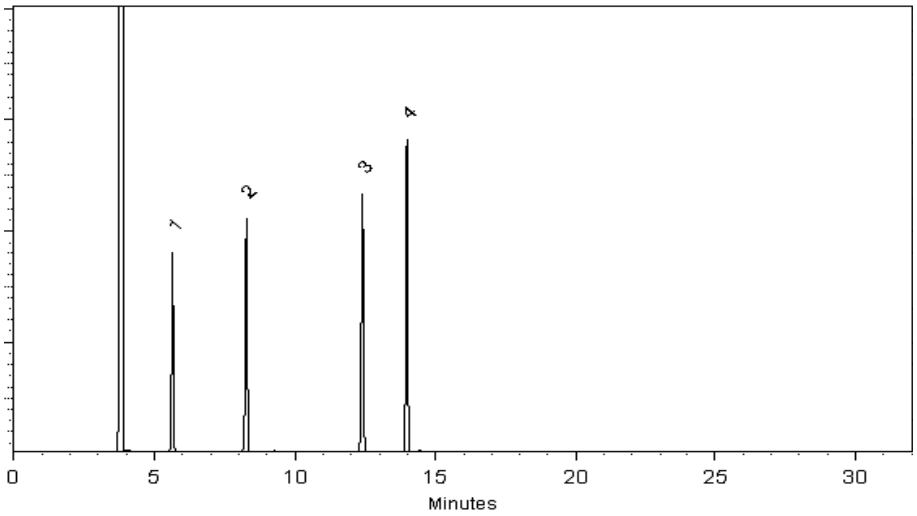
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Bryan Snyder - Operations Tech I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Feb-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_Q_Ketones_00223

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

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CERTIFIED REFERENCE MATERIAL

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Purity 99%

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

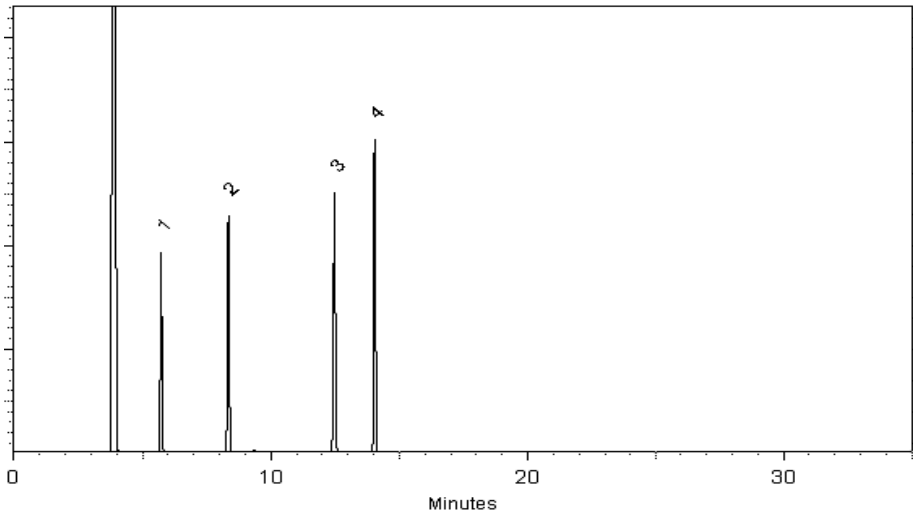
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Ethan Winiarski - Operations Tech I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Apr-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_QC_2K_GAS_00227

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CERTIFIED REFERENCE MATERIAL

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Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom Gases.SEC Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

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

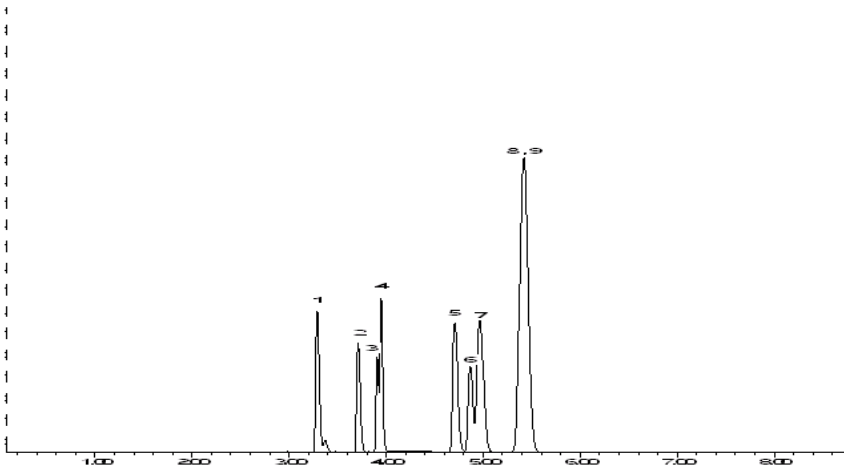
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Brandon Reish - Mix Technician

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

Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_QC_2K_GAS_00240

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom Gases.SEC Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

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

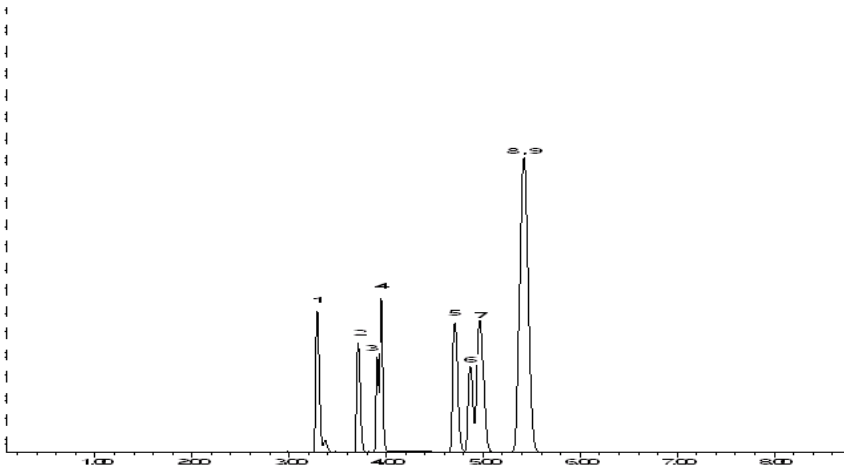
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Brandon Reish - Mix Technician

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

Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_2CLEVE_00187

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom 2-CEVE Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

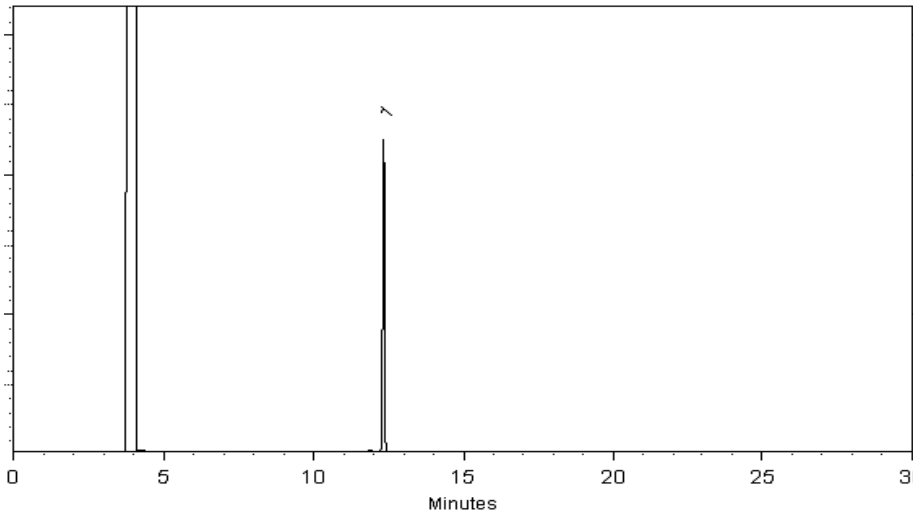
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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

Russ Bookhamer - Operations Technician I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_Ketones_00170

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Purity 99%

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

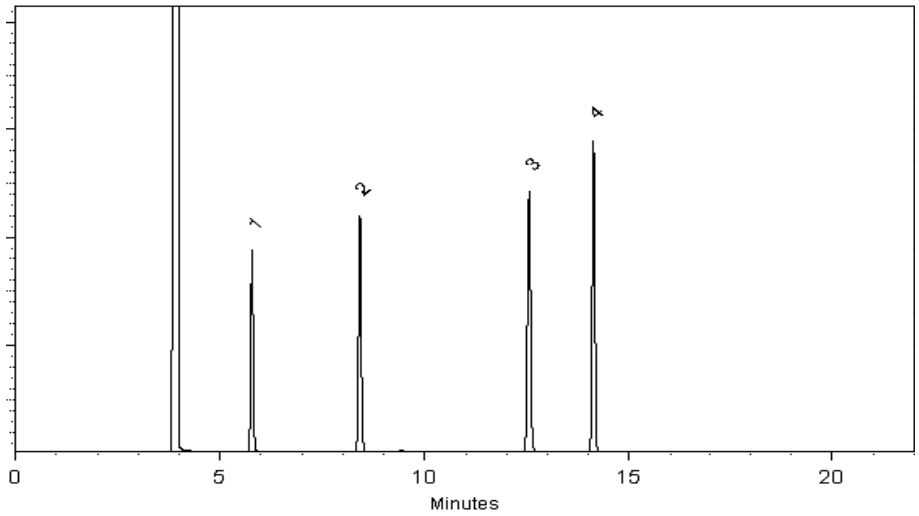
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Bethany Lowery - Operations Tech I

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

Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_Ketones_00173

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

Purity 99%

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

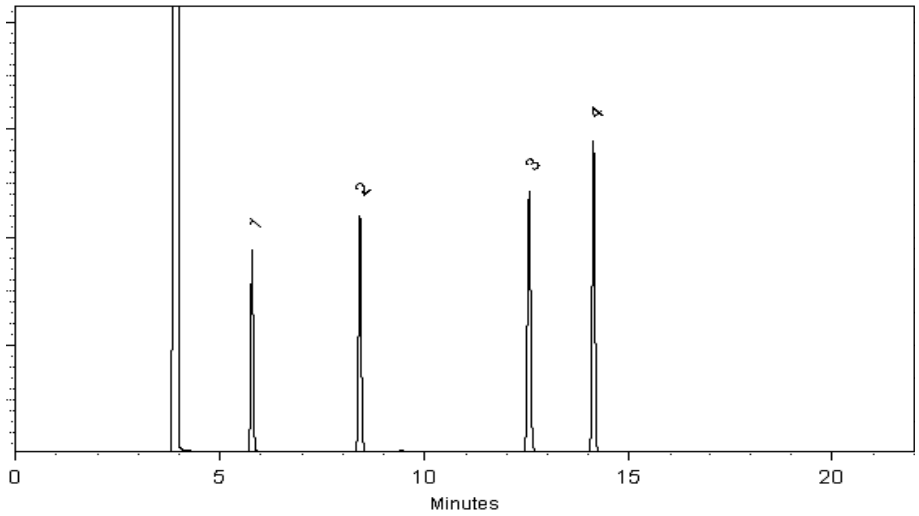
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Bethany Lowery - Operations Tech I

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

Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_Ketones_00200

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721 **Lot No.:** A0210935

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

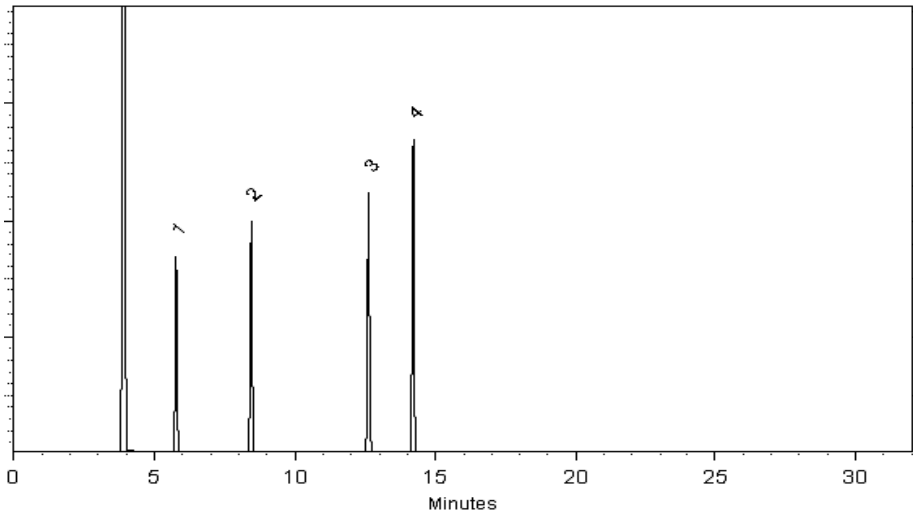
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Stacey Wanner - Operations Technician I

Date Mixed: 30-Apr-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 02-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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.: 410-189937-1

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-CW-21-0/1-0	410-189937-1	107	106	94	94
HD-CW-22-0/1-0	410-189937-2	107	106	94	93
HD-CW-23-0/1-0	410-189937-3	108	105	95	94
HD-SPBA-EFF-0/1-0	410-189937-4	110	107	94	92
Trip Blank	410-189937-5	111	105	95	92
	MB 410-558851/7	109	106	96	92
	LCS 410-558851/4	104	103	102	99
	LCSD 410-558851/5	103	102	100	99

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

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 5C03X03.D

Lab ID: LCS 410-558851/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	19.4	97	79-120	
1,1,1-Trichloroethane	20.0	20.4	102	73-120	
1,1,2,2-Tetrachloroethane	20.0	16.8	84	72-120	
1,1,2-Trichloroethane	20.0	18.7	93	80-120	
1,1-Dichloroethane	20.0	18.6	93	80-120	
1,1-Dichloroethene	20.0	21.4	107	80-131	
Ethylene Dibromide	20.0	17.4	87	77-120	
1,2-Dichloroethane	20.0	18.4	92	73-124	
1,2-Dichloropropane	20.0	17.9	89	80-120	
2-Butanone (MEK)	250	220	88	59-135	
2-Hexanone	250	247	99	56-135	
4-Methyl-2-pentanone (MIBK)	250	238	95	62-133	
Acetone	250	202	81	57-143	
Benzene	20.0	18.2	91	80-120	
Bromochloromethane	20.0	18.9	94	80-120	
Bromodichloromethane	20.0	18.6	93	71-120	
Bromoform	20.0	18.2	91	51-120	
Bromomethane	20.0	16.7	83	53-128	
Carbon disulfide	20.0	14.6	73	65-128	
Carbon tetrachloride	20.0	21.2	106	64-134	
Chlorobenzene	20.0	18.7	94	80-120	
Chloroethane	20.0	16.7	83	55-123	
Chloroform	20.0	18.6	93	80-120	
Chloromethane	20.0	15.6	78	39-134	
cis-1,2-Dichloroethene	20.0	18.5	92	80-125	
cis-1,3-Dichloropropene	20.0	15.9	79	75-120	
Dibromochloromethane	20.0	18.8	94	71-120	
Ethylbenzene	20.0	18.0	90	80-120	
Methyl tert-butyl ether	20.0	15.5	78	69-122	
Methylene Chloride	20.0	19.4	97	80-120	
Styrene	20.0	18.7	94	80-120	
Tetrachloroethene	20.0	19.9	100	80-120	
Toluene	20.0	18.0	90	80-120	
trans-1,2-Dichloroethene	20.0	19.5	97	80-126	
trans-1,3-Dichloropropene	20.0	15.7	79	67-120	
Trichloroethene	20.0	18.7	94	80-120	
Vinyl chloride	20.0	15.5	78	56-120	
Xylenes, Total	60.0	55.1	92	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 5C03X04.D

Lab ID: LCSD 410-558851/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	18.9	94	3	30	79-120	
1,1,1-Trichloroethane	20.0	20.1	101	1	30	73-120	
1,1,2,2-Tetrachloroethane	20.0	16.6	83	2	30	72-120	
1,1,2-Trichloroethane	20.0	17.7	88	6	30	80-120	
1,1-Dichloroethane	20.0	18.9	94	1	30	80-120	
1,1-Dichloroethene	20.0	21.2	106	1	30	80-131	
Ethylene Dibromide	20.0	17.1	85	2	30	77-120	
1,2-Dichloroethane	20.0	17.9	89	3	30	73-124	
1,2-Dichloropropane	20.0	17.3	87	3	30	80-120	
2-Butanone (MEK)	250	215	86	2	30	59-135	
2-Hexanone	250	242	97	2	30	56-135	
4-Methyl-2-pentanone (MIBK)	250	233	93	2	30	62-133	
Acetone	250	203	81	0	30	57-143	
Benzene	20.0	17.9	90	2	30	80-120	
Bromochloromethane	20.0	18.9	94	0	30	80-120	
Bromodichloromethane	20.0	17.8	89	5	30	71-120	
Bromoform	20.0	18.0	90	1	30	51-120	
Bromomethane	20.0	16.1	81	3	30	53-128	
Carbon disulfide	20.0	13.1	66	11	30	65-128	
Carbon tetrachloride	20.0	20.9	105	1	30	64-134	
Chlorobenzene	20.0	18.5	93	1	30	80-120	
Chloroethane	20.0	16.0	80	4	30	55-123	
Chloroform	20.0	18.6	93	0	30	80-120	
Chloromethane	20.0	15.1	76	3	30	39-134	
cis-1,2-Dichloroethene	20.0	18.2	91	1	30	80-125	
cis-1,3-Dichloropropene	20.0	15.6	78	2	30	75-120	
Dibromochloromethane	20.0	17.7	89	6	30	71-120	
Ethylbenzene	20.0	17.7	89	1	30	80-120	
Methyl tert-butyl ether	20.0	15.4	77	1	30	69-122	
Methylene Chloride	20.0	18.8	94	3	30	80-120	
Styrene	20.0	17.9	89	5	30	80-120	
Tetrachloroethene	20.0	19.0	95	5	30	80-120	
Toluene	20.0	17.9	89	1	30	80-120	
trans-1,2-Dichloroethene	20.0	19.5	97	0	30	80-126	
trans-1,3-Dichloropropene	20.0	15.1	76	4	30	67-120	
Trichloroethene	20.0	18.7	93	0	30	80-120	
Vinyl chloride	20.0	15.6	78	1	30	56-120	
Xylenes, Total	60.0	54.2	90	2	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Lab File ID: 5C03X06.D Lab Sample ID: MB 410-558851/7

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

Instrument ID: 26285 Date Analyzed: 10/03/2024 11:33

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 410-558851/4	5C03X03.D	10/03/2024 10:31
	LCSD 410-558851/5	5C03X04.D	10/03/2024 10:52
Trip Blank	410-189937-5	5C03X08.D	10/03/2024 12:14
HD-CW-21-0/1-0	410-189937-1	5C03X17.D	10/03/2024 15:18
HD-CW-22-0/1-0	410-189937-2	5C03X18.D	10/03/2024 15:39
HD-CW-23-0/1-0	410-189937-3	5C03X19.D	10/03/2024 15:59
HD-SPBA-EFF-0/1-0	410-189937-4	5C03X20.D	10/03/2024 16:20

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Lab File ID: 5L23T01.D BFB Injection Date: 07/23/2024

Instrument ID: 26285 BFB Injection Time: 18:15

Analysis Batch No.: 531506

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.9	
75	30.0 - 60.0 % of mass 95	48.8	
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	81.8	
175	5.0 - 9.0 % of mass 174	6.4	(7.8) 1
176	95.0 - 101.0 % of mass 174	79.2	(96.8) 1
177	5.0 - 9.0 % of mass 176	5.2	(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
	IC 410-531506/12	5L23X06.D	07/23/2024	20:11
	IC 410-531506/13	5L23X07.D	07/23/2024	20:31
	IC 410-531506/14	5L23X08.D	07/23/2024	20:52
	IC 410-531506/15	5L23X09.D	07/23/2024	21:12
	ICIS 410-531506/16	5L23X10.D	07/23/2024	21:32
	IC 410-531506/17	5L23X11.D	07/23/2024	21:52
	IC 410-531506/18	5L23X12.D	07/23/2024	22:12
	ICV 410-531506/20	5L23X14.D	07/23/2024	22:53

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Lab File ID: 5C03T01.D BFB Injection Date: 10/03/2024

Instrument ID: 26285 BFB Injection Time: 09:37

Analysis Batch No.: 558851

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.1	
75	30.0 - 60.0 % of mass 95	50.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	80.9	
175	5.0 - 9.0 % of mass 174	6.5	(8.0) 1
176	95.0 - 101.0 % of mass 174	77.7	(96.1) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-558851/3	5C03X02.D	10/03/2024	10:11
	LCS 410-558851/4	5C03X03.D	10/03/2024	10:31
	LCSD 410-558851/5	5C03X04.D	10/03/2024	10:52
	MB 410-558851/7	5C03X06.D	10/03/2024	11:33
Trip Blank	410-189937-5	5C03X08.D	10/03/2024	12:14
HD-CW-21-0/1-0	410-189937-1	5C03X17.D	10/03/2024	15:18
HD-CW-22-0/1-0	410-189937-2	5C03X18.D	10/03/2024	15:39
HD-CW-23-0/1-0	410-189937-3	5C03X19.D	10/03/2024	15:59
HD-SPBA-EFF-0/1-0	410-189937-4	5C03X20.D	10/03/2024	16:20

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Sample No.: ICIS 410-531506/16 Date Analyzed: 07/23/2024 21:32

Instrument ID: 26285 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): 5L23X10.D Heated Purge: (Y/N) N

Calibration ID: 64083

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		479829	3.19	1347341	6.57	981206	10.44
UPPER LIMIT		959658	3.69	2694682	7.07	1962412	10.94
LOWER LIMIT		239915	2.69	673671	6.07	490603	9.94
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-531506/20		443567	3.21	1318978	6.57	946533	10.44
CCVIS 410-558851/3		449394	3.21	1242520	6.57	923008	10.44

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

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Sample No.: ICIS 410-531506/16 Date Analyzed: 07/23/2024 21:32

Instrument ID: 26285 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): 5L23X10.D Heated Purge: (Y/N) N

Calibration ID: 64083

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		546736	12.47				
UPPER LIMIT		1093472	12.97				
LOWER LIMIT		273368	11.97				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-531506/20		537218	12.47				
CCVIS 410-558851/3		547664	12.46				

DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Sample No.: CCVIS 410-558851/3 Date Analyzed: 10/03/2024 10:11

Instrument ID: 26285 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): 5C03X02.D Heated Purge: (Y/N) N

Calibration ID: 64083

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		449394	3.21	1242520	6.57	923008	10.44
UPPER LIMIT		898788	3.71	2485040	7.07	1846016	10.94
LOWER LIMIT		224697	2.71	621260	6.07	461504	9.94
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-558851/4		442709	3.21	1155174	6.57	862436	10.44
LCSD 410-558851/5		445128	3.21	1192102	6.57	896770	10.44
MB 410-558851/7		423869	3.23	1154023	6.58	868900	10.44
410-189937-5	Trip Blank	395680	3.21	1126996	6.58	861850	10.44
410-189937-1	HD-CW-21-0/1-0	446589	3.23	1154615	6.57	893888	10.44
410-189937-2	HD-CW-22-0/1-0	437267	3.22	1145681	6.57	879291	10.44
410-189937-3	HD-CW-23-0/1-0	419710	3.22	1116947	6.57	856537	10.44
410-189937-4	HD-SPBA-EFF-0/1-0	411759	3.21	1118421	6.57	861354	10.44

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

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Sample No.: CCVIS 410-558851/3 Date Analyzed: 10/03/2024 10:11

Instrument ID: 26285 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): 5C03X02.D Heated Purge: (Y/N) N

Calibration ID: 64083

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		547664	12.46				
UPPER LIMIT		1095328	12.96				
LOWER LIMIT		273832	11.96				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-558851/4		525241	12.47				
LCSD 410-558851/5		541779	12.46				
MB 410-558851/7		491829	12.47				
410-189937-5	Trip Blank	482754	12.47				
410-189937-1	HD-CW-21-0/1-0	495256	12.47				
410-189937-2	HD-CW-22-0/1-0	501300	12.47				
410-189937-3	HD-CW-23-0/1-0	490325	12.46				
410-189937-4	HD-SPBA-EFF-0/1-0	488227	12.46				

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189937-1

SDG No.:

Client Sample ID: HD-CW-21-0/1-0
Lab Sample ID: 410-189937-1

Matrix: Water
Lab File ID: 5C03X17.D

Analysis Method: 8260D
Date Collected: 09/26/2024 13:43

Sample wt/vol: 5(mL)
Date Analyzed: 10/03/2024 15:18

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.: 558851
Units: ug/L

Preparation Batch No.:
Instrument ID: 26285

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	Ethylene Dibromide	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	^c cn	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	0.52	J	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	^c cn	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	110		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189937-1

SDG No.:

Client Sample ID: HD-CW-21-0/1-0
Lab Sample ID: 410-189937-1

Matrix: Water
Lab File ID: 5C03X17.D

Analysis Method: 8260D
Date Collected: 09/26/2024 13:43

Sample wt/vol: 5(mL)
Date Analyzed: 10/03/2024 15:18

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.: 558851
Units: ug/L

Preparation Batch No.:
Instrument ID: 26285

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
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	0.60	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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X17.D
Lims ID: 410-189937-A-1
Client ID: HD-CW-21-0/1-0
Sample Type: Client
Inject. Date: 03-Oct-2024 15:18:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126694-018
Operator ID: knk41612 Instrument ID: 26285

Method: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 04-Oct-2024 07:38:24 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1622

First Level Reviewer: N9NA Date: 04-Oct-2024 07:38:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		1.677				ND	
5 Vinyl chloride	62		1.756				ND	
8 Bromomethane	94		2.025				ND	
9 Chloroethane	64		2.049				ND	
18 Acetone	58		2.683				ND	
17 1,1-Dichloroethene	96		2.707				ND	
22 Carbon disulfide	76		2.915				ND	
26 Methylene Chloride	84		3.189				ND	
* 27 t-Butyl alcohol-d10 (IS)	65	3.225	3.207	0.018	96	446589	250.0	
31 trans-1,2-Dichloroethene	96		3.469				ND	
32 Methyl tert-butyl ether	73		3.476				ND	7
34 1,1-Dichloroethane	63		4.018				ND	
39 2-Butanone (MEK)	43		4.853				ND	U
40 cis-1,2-Dichloroethene	96		4.884				ND	
46 Chlorobromomethane	128		5.231				ND	
48 Chloroform	83	5.408	5.396	0.012	93	6896	0.5217	
$ 49 Dibromofluoromethane (Surr)	113	5.627	5.628	-0.001	93	325294	53.5	
50 1,1,1-Trichloroethane	97		5.646				ND	
52 Carbon tetrachloride	117		5.859				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.103	6.103	0.000	47	70555	52.9	
57 Benzene	78		6.134				ND	
58 1,2-Dichloroethane	62		6.213				ND	
* 61 Fluorobenzene (IS)	96	6.572	6.572	0.000	98	1154615	50.0	
64 Trichloroethene	95	7.097	7.085	0.012	90	4474	0.5951	Ma
67 1,2-Dichloropropane	63		7.426				ND	
74 Dichlorobromomethane	83		7.804				ND	
77 cis-1,3-Dichloropropene	75		8.395				ND	
78 4-Methyl-2-pentanone (MIBK)	43		8.609				ND	7
$ 79 Toluene-d8 (Surr)	98	8.743	8.743	0.000	95	1104595	47.0	
80 Toluene	92		8.834				ND	
84 trans-1,3-Dichloropropene	75		9.163				ND	
86 1,1,2-Trichloroethane	97		9.401				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 Tetrachloroethene	166	9.493	9.487	0.006	96	829157	107.6	
90 2-Hexanone	43		9.676				ND	
91 Chlorodibromomethane	129		9.828				ND	
96 Ethylene Dibromide	107		9.938				ND	
* 98 Chlorobenzene-d5 (IS)	117	10.437	10.438	-0.001	87	893888	50.0	
99 Chlorobenzene	112		10.462				ND	
128 1,1,1,2-Tetrachloroethane	131		10.566				ND	
129 Ethylbenzene	91		10.572				ND	
130 m-Xylene & p-Xylene	106		10.706				ND	
132 o-Xylene	106		11.059				ND	
133 Styrene	104		11.078				ND	
135 Bromoform	173		11.230				ND	
S 134 Xylenes, Total	106		11.245				ND	7
$ 140 4-Bromofluorobenzene (Surr)	95	11.535	11.535	0.000	89	443197	46.8	
144 1,1,2,2-Tetrachloroethane	83		11.657				ND	
* 158 1,4-Dichlorobenzene-d4	152	12.468	12.462	0.006	96	495256	50.0	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

Reagents:

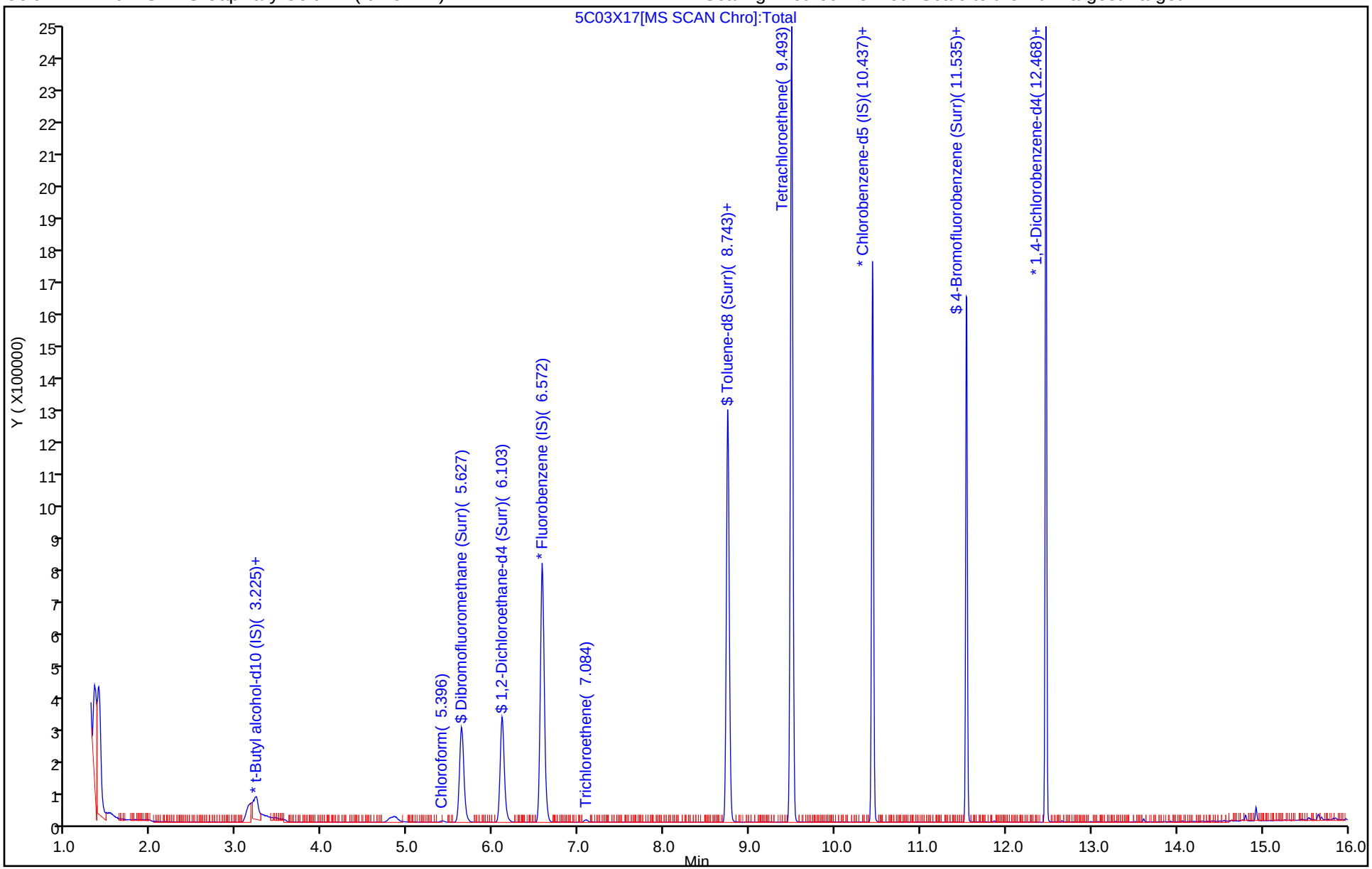
MSV_Cent_ISSS_00031 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 04-Oct-2024 07:38:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X17.D				
Injection Date:	03-Oct-2024 15:18:30	Instrument ID:	26285	Operator ID:	knk41612
Lims ID:	410-189937-A-1	Lab Sample ID:	410-189937-1	Worklist Smp#:	18
Client ID:	HD-CW-21-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X17.D				
Lims ID:	410-189937-A-1				
Client ID:	HD-CW-21-0/1-0				
Sample Type:	Client				
Inject. Date:	03-Oct-2024 15:18:30	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126694-018				
Operator ID:	knk41612	Instrument ID:	26285		
Method:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m				
Limit Group:	MSV - 8260C_D				
Last Update:	04-Oct-2024 07:38:24	Calib Date:	23-Jul-2024 22:12:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1622				

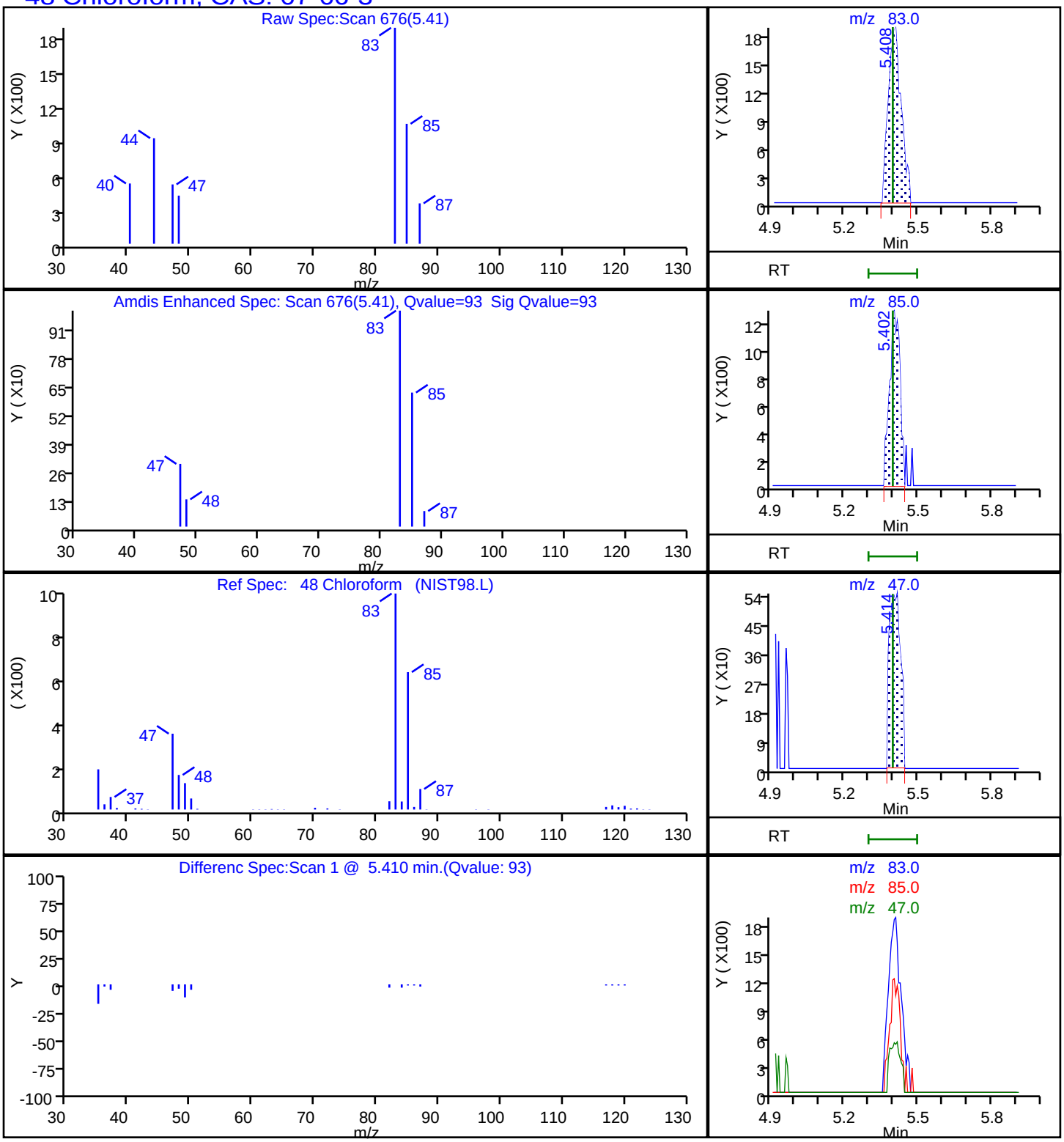
First Level Reviewer: N9NA Date: 04-Oct-2024 07:38:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	50.0	53.5	107.07
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	52.9	105.89
$ 79 Toluene-d8 (Surr)	50.0	47.0	94.05
$ 140 4-Bromofluorobenzene (Surr)	50.0	46.8	93.56

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X17.D				
Injection Date:	03-Oct-2024 15:18:30	Instrument ID:	26285		
Lims ID:	410-189937-A-1	Lab Sample ID:	410-189937-1		
Client ID:	HD-CW-21-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

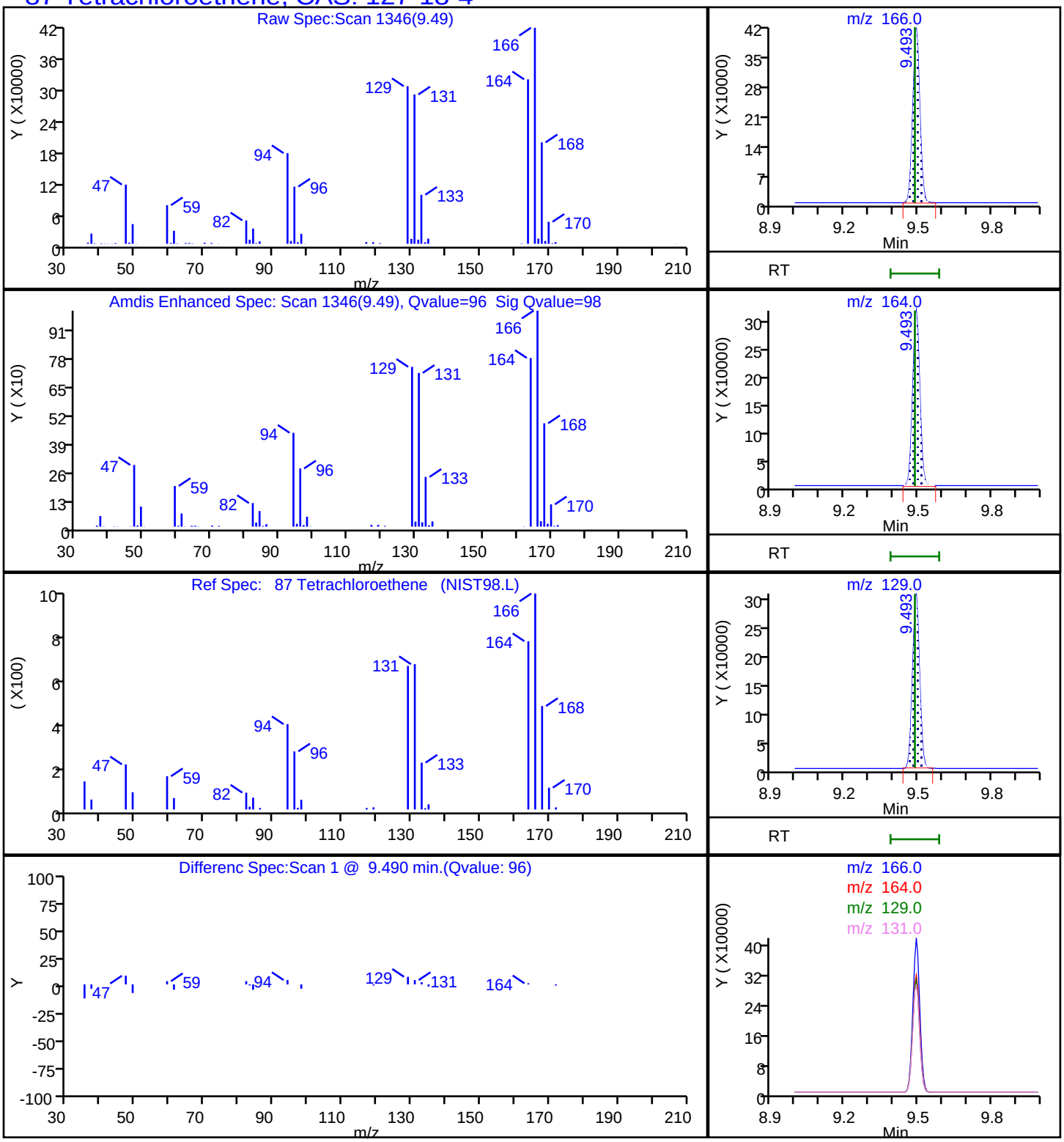
48 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X17.D				
Injection Date:	03-Oct-2024 15:18:30	Instrument ID:	26285		
Lims ID:	410-189937-A-1	Lab Sample ID:	410-189937-1		
Client ID:	HD-CW-21-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

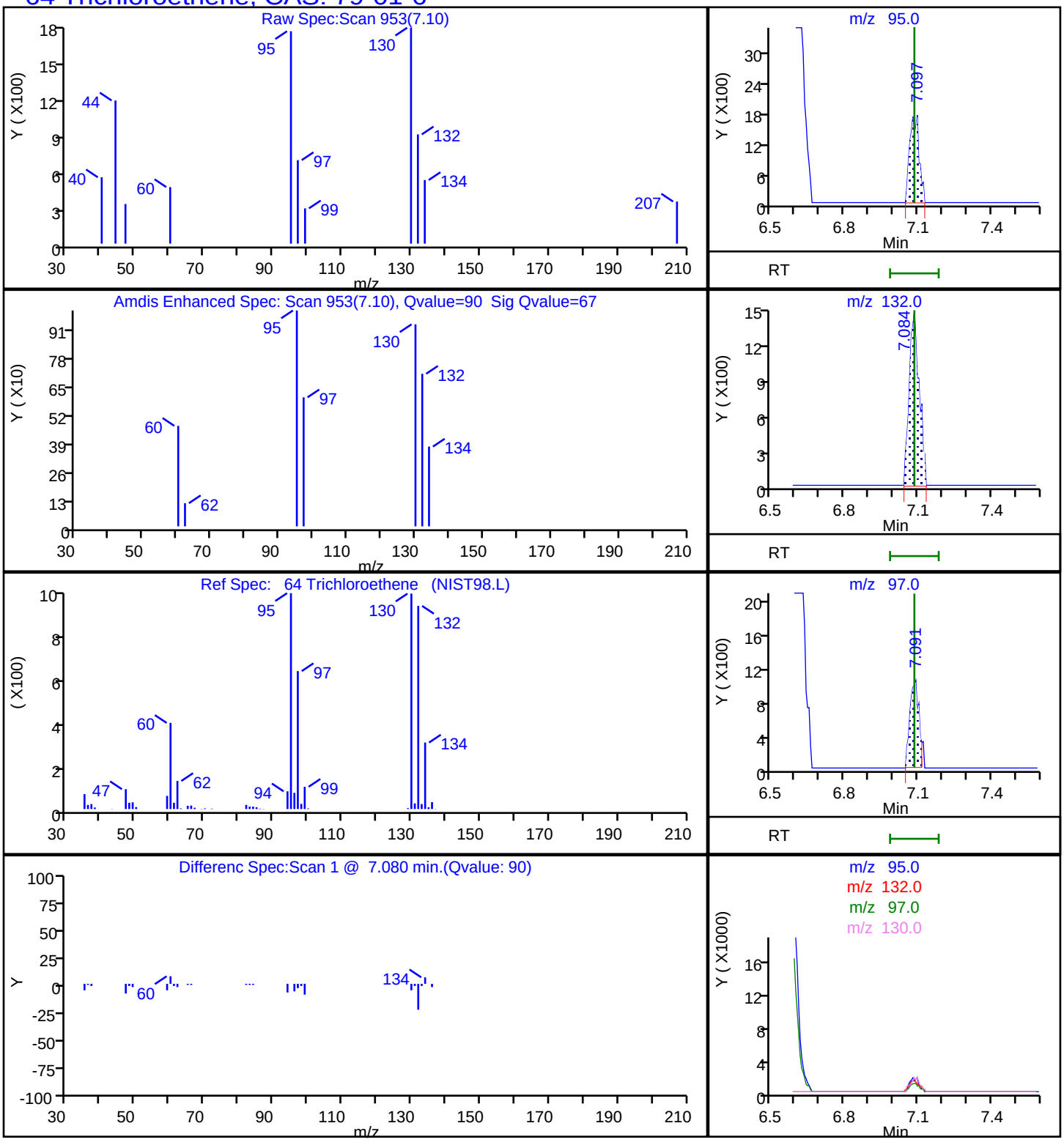
87 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X17.D				
Injection Date:	03-Oct-2024 15:18:30	Instrument ID:	26285		
Lims ID:	410-189937-A-1	Lab Sample ID:	410-189937-1		
Client ID:	HD-CW-21-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6



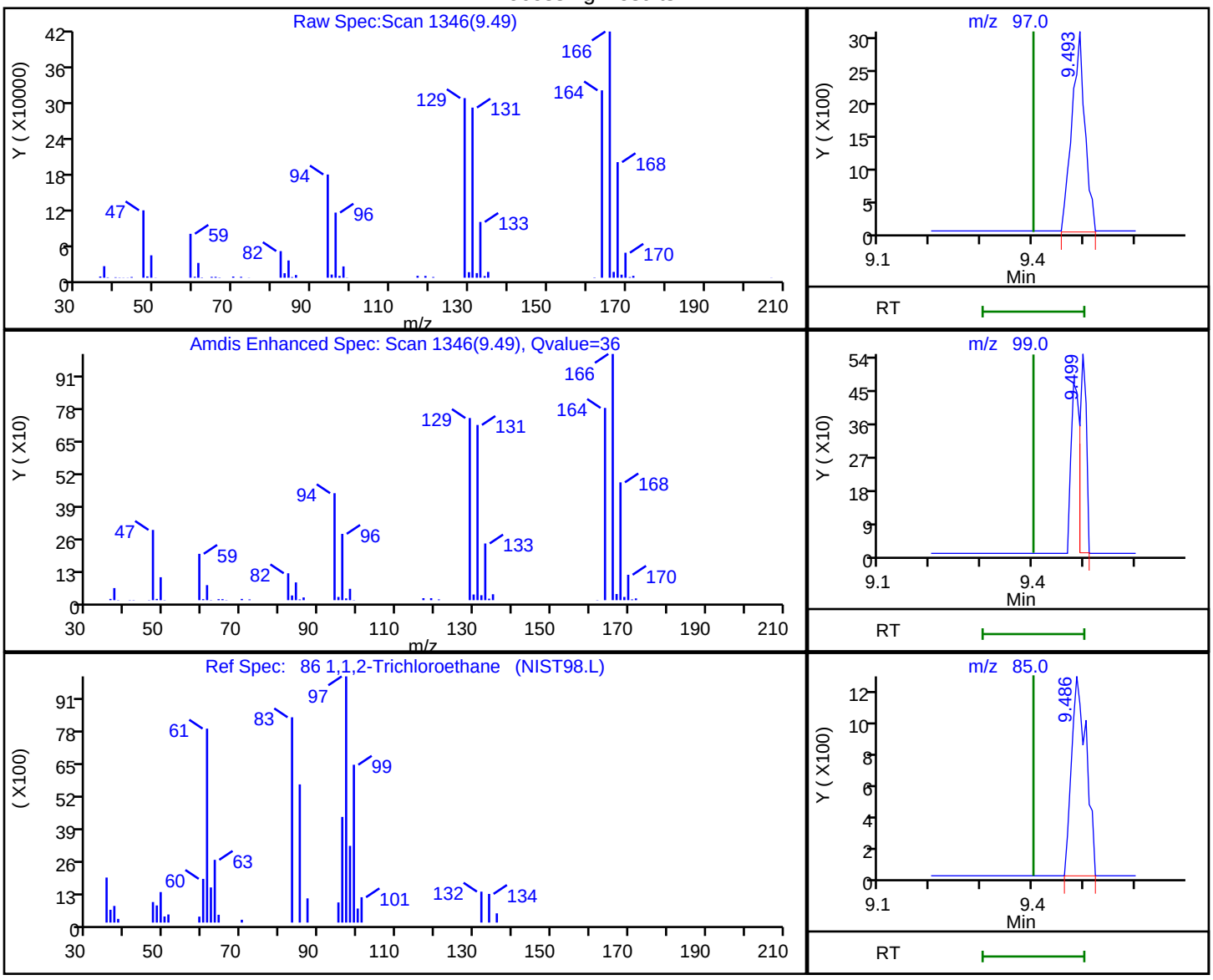
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X17.D				
Injection Date:	03-Oct-2024 15:18:30	Instrument ID:	26285		
Lims ID:	410-189937-A-1	Lab Sample ID:	410-189937-1		
Client ID:	HD-CW-21-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

86 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
9.49	97.00	5397	0.792601
9.50	99.00	477	
9.49	85.00	2491	
9.49	83.00	15735	

Reviewer: N9NA, 04-Oct-2024 07:38:19 07:00:00 (UTC)

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

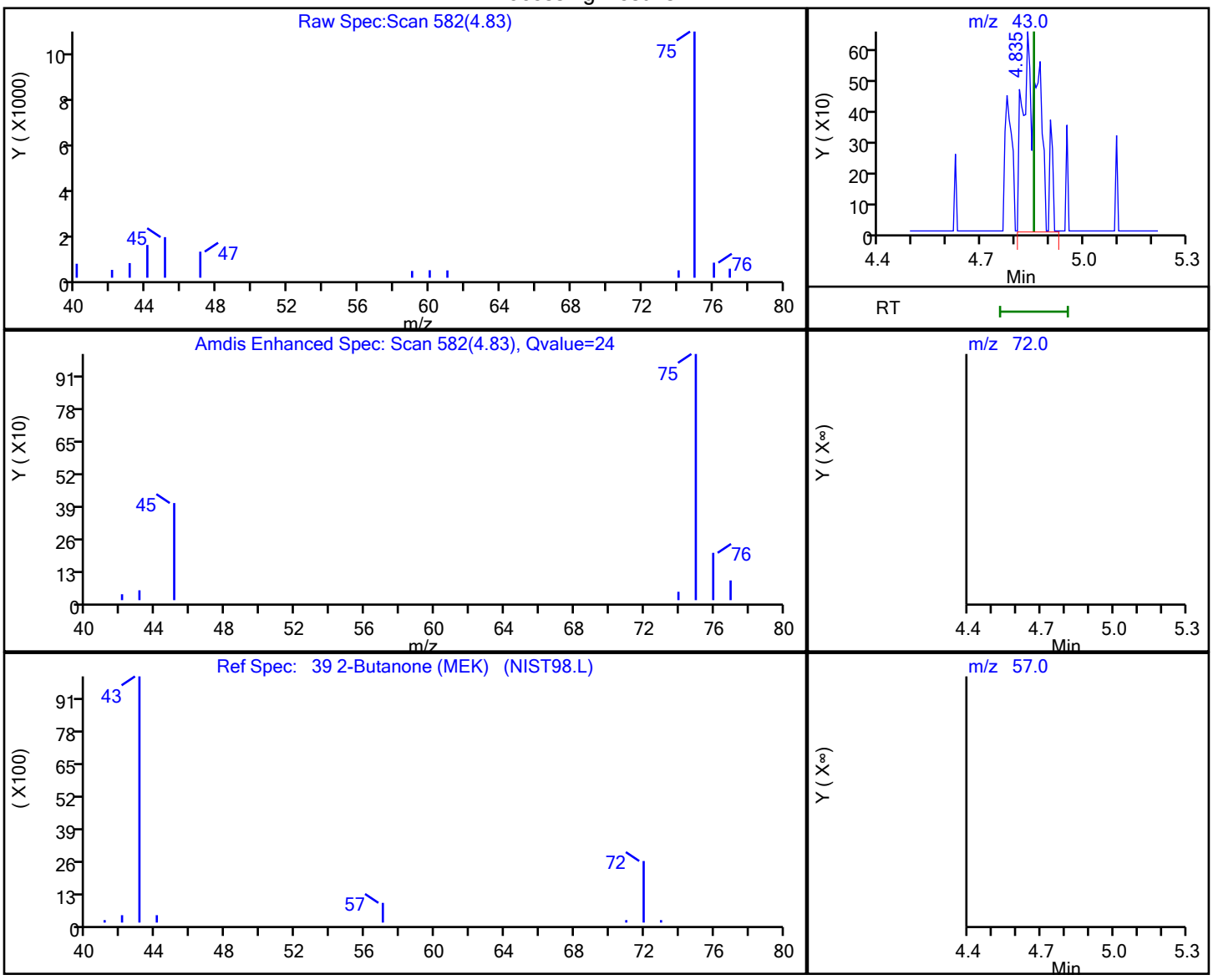
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X17.D				
Injection Date:	03-Oct-2024 15:18:30	Instrument ID:	26285		
Lims ID:	410-189937-A-1	Lab Sample ID:	410-189937-1		
Client ID:	HD-CW-21-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

39 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
4.83	43.00	2303	0.311511
4.85	72.00	0	
4.85	57.00	0	

Reviewer: N9NA, 04-Oct-2024 07:37:47 07:00:00 (UTC)

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

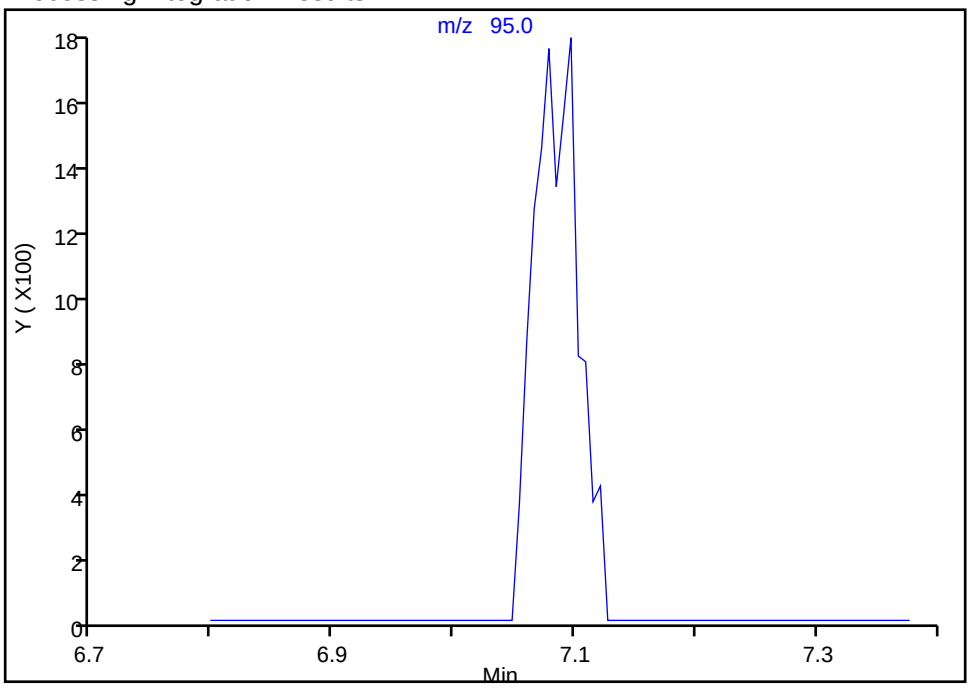
Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X17.D				
Injection Date:	03-Oct-2024 15:18:30	Instrument ID:	26285		
Lims ID:	410-189937-A-1	Lab Sample ID:	410-189937-1		
Client ID:	HD-CW-21-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6

Signal: 1

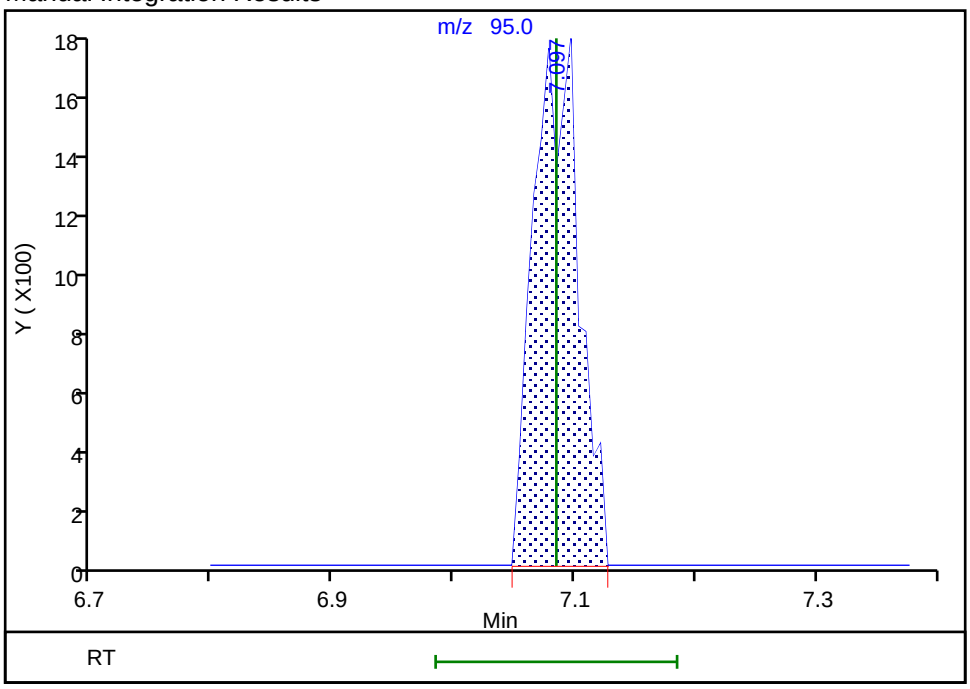
Not Detected
Expected RT: 7.08

Processing Integration Results



Manual Integration Results

RT: 7.10
Area: 4474
Amount: 0.595093
Amount Units: ug/l



Reviewer: N9NA, 04-Oct-2024 07:38:06 07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189937-1

SDG No.:

Client Sample ID: HD-CW-22-0/1-0
Lab Sample ID: 410-189937-2

Matrix: Water
Lab File ID: 5C03X18.D

Analysis Method: 8260D
Date Collected: 09/26/2024 13:49

Sample wt/vol: 5(mL)
Date Analyzed: 10/03/2024 15:39

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.: 558851
Units: ug/L

Preparation Batch No.:
Instrument ID: 26285

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	Ethylene Dibromide	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	^c cn	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	0.64	J	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	^c cn	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	49		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189937-1

SDG No.:

Client Sample ID: HD-CW-22-0/1-0
Lab Sample ID: 410-189937-2

Matrix: Water
Lab File ID: 5C03X18.D

Analysis Method: 8260D
Date Collected: 09/26/2024 13:49

Sample wt/vol: 5(mL)
Date Analyzed: 10/03/2024 15:39

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.: 558851
Units: ug/L

Preparation Batch No.:
Instrument ID: 26285

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
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	0.85	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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X18.D
Lims ID: 410-189937-A-2
Client ID: HD-CW-22-0/1-0
Sample Type: Client
Inject. Date: 03-Oct-2024 15:39:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126694-019
Operator ID: knk41612 Instrument ID: 26285

Method: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 04-Oct-2024 07:39:22 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1622

First Level Reviewer: N9NA Date: 04-Oct-2024 07:39:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		1.677				ND	
5 Vinyl chloride	62		1.756				ND	
8 Bromomethane	94		2.025				ND	
9 Chloroethane	64		2.049				ND	
18 Acetone	58		2.683				ND	
17 1,1-Dichloroethene	96		2.707				ND	
22 Carbon disulfide	76		2.915				ND	
26 Methylene Chloride	84		3.189				ND	
* 27 t-Butyl alcohol-d10 (IS)	65	3.219	3.207	0.012	96	437267	250.0	
31 trans-1,2-Dichloroethene	96		3.469				ND	
32 Methyl tert-butyl ether	73		3.476				ND	7
34 1,1-Dichloroethane	63		4.018				ND	
39 2-Butanone (MEK)	43		4.853				ND	
40 cis-1,2-Dichloroethene	96		4.884				ND	
46 Chlorobromomethane	128		5.231				ND	
48 Chloroform	83	5.402	5.396	0.006	95	8363	0.6376	
$ 49 Dibromofluoromethane (Surr)	113	5.627	5.628	-0.001	92	321379	53.3	
50 1,1,1-Trichloroethane	97		5.646				ND	
52 Carbon tetrachloride	117		5.859				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.109	6.103	0.006	47	70053	53.0	
57 Benzene	78		6.134				ND	
58 1,2-Dichloroethane	62		6.213				ND	
* 61 Fluorobenzene (IS)	96	6.572	6.572	0.000	98	1145681	50.0	
64 Trichloroethene	95	7.078	7.085	-0.007	96	6350	0.8512	Ma
67 1,2-Dichloropropane	63		7.426				ND	
74 Dichlorobromomethane	83		7.804				ND	
77 cis-1,3-Dichloropropene	75		8.395				ND	
78 4-Methyl-2-pentanone (MIBK)	43		8.609				ND	
$ 79 Toluene-d8 (Surr)	98	8.742	8.743	-0.001	95	1086794	47.0	
80 Toluene	92		8.834				ND	
84 trans-1,3-Dichloropropene	75		9.163				ND	
86 1,1,2-Trichloroethane	97		9.401				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 Tetrachloroethene	166	9.492	9.487	0.005	96	370531	48.9	
90 2-Hexanone	43		9.676				ND	
91 Chlorodibromomethane	129		9.828				ND	
96 Ethylene Dibromide	107		9.938				ND	
* 98 Chlorobenzene-d5 (IS)	117	10.437	10.438	-0.001	87	879291	50.0	
99 Chlorobenzene	112		10.462				ND	
128 1,1,1,2-Tetrachloroethane	131		10.566				ND	
129 Ethylbenzene	91		10.572				ND	
130 m-Xylene & p-Xylene	106		10.706				ND	
132 o-Xylene	106		11.059				ND	
133 Styrene	104		11.078				ND	
135 Bromoform	173		11.230				ND	
S 134 Xylenes, Total	106		11.245				ND	7
$ 140 4-Bromofluorobenzene (Surr)	95	11.535	11.535	0.000	90	433192	46.5	
144 1,1,2,2-Tetrachloroethane	83		11.657				ND	
* 158 1,4-Dichlorobenzene-d4	152	12.467	12.462	0.005	96	501300	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_Cent_ISSS_00031 Amount Added: 5.00 Units: uL Run Reagent

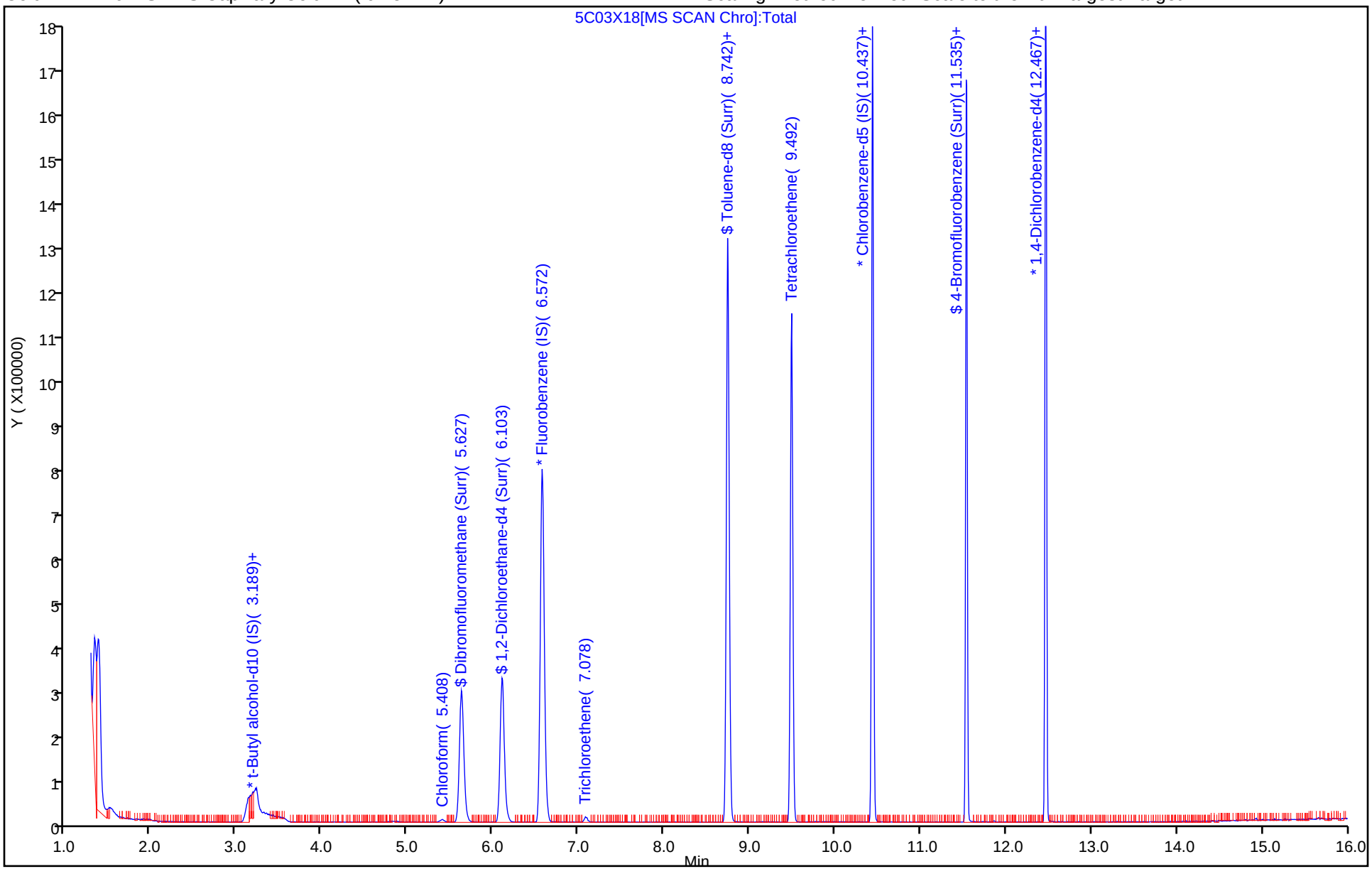
Report Date: 04-Oct-2024 07:39:23 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X18.D

Injection Date:	03-Oct-2024 15:39:30	Instrument ID:	26285	Operator ID:	knk41612
Lims ID:	410-189937-A-2	Lab Sample ID:	410-189937-2	Worklist Smp#:	19
Client ID:	HD-CW-22-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X18.D				
Lims ID:	410-189937-A-2				
Client ID:	HD-CW-22-0/1-0				
Sample Type:	Client				
Inject. Date:	03-Oct-2024 15:39:30	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126694-019				
Operator ID:	knk41612	Instrument ID:	26285		
Method:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m				
Limit Group:	MSV - 8260C_D				
Last Update:	04-Oct-2024 07:39:22	Calib Date:	23-Jul-2024 22:12:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1622				

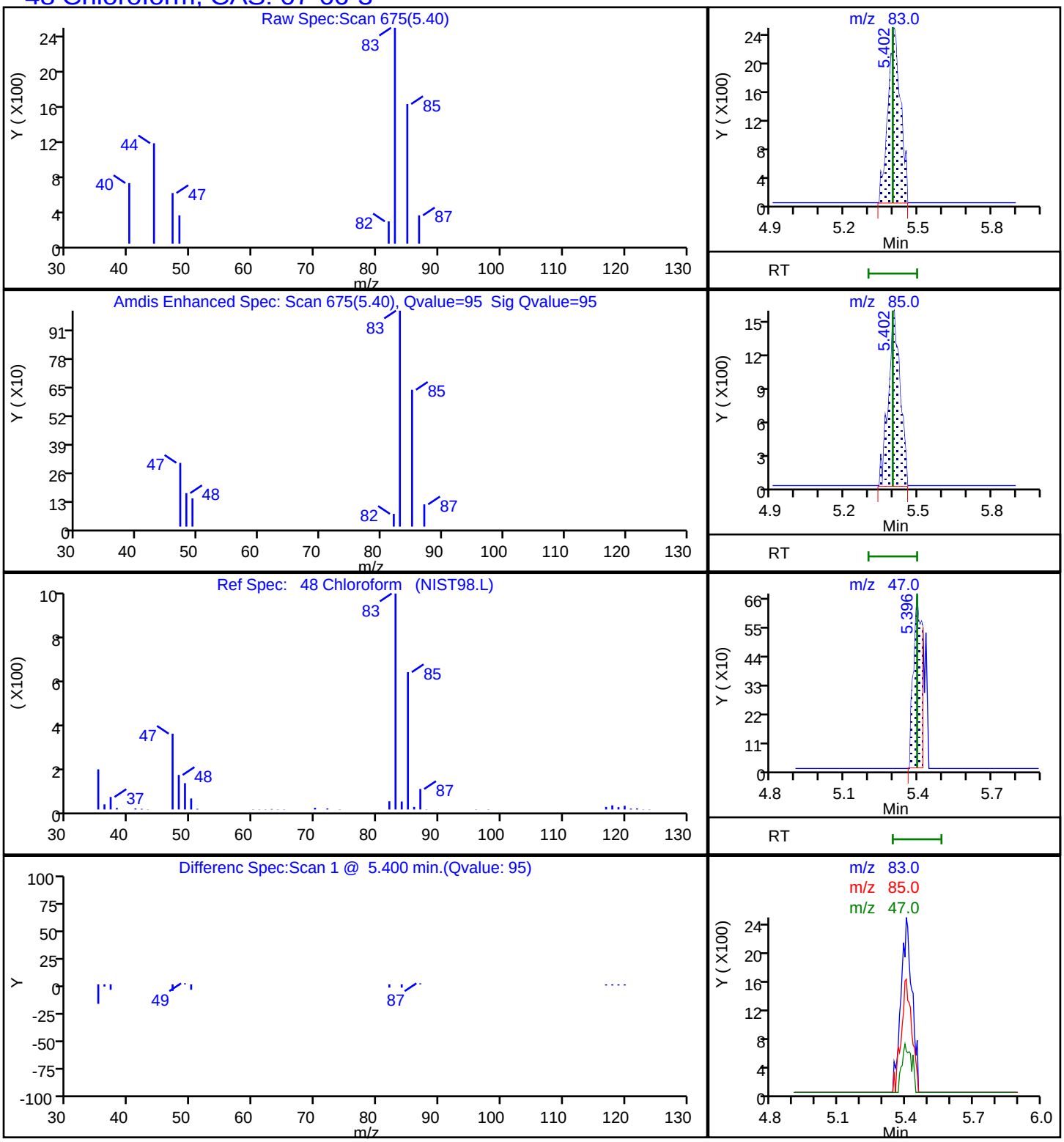
First Level Reviewer: N9NA Date: 04-Oct-2024 07:39:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	50.0	53.3	106.60
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	53.0	105.96
$ 79 Toluene-d8 (Surr)	50.0	47.0	94.07
$ 140 4-Bromofluorobenzene (Surr)	50.0	46.5	92.96

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X18.D				
Injection Date:	03-Oct-2024 15:39:30	Instrument ID:	26285		
Lims ID:	410-189937-A-2	Lab Sample ID:	410-189937-2		
Client ID:	HD-CW-22-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

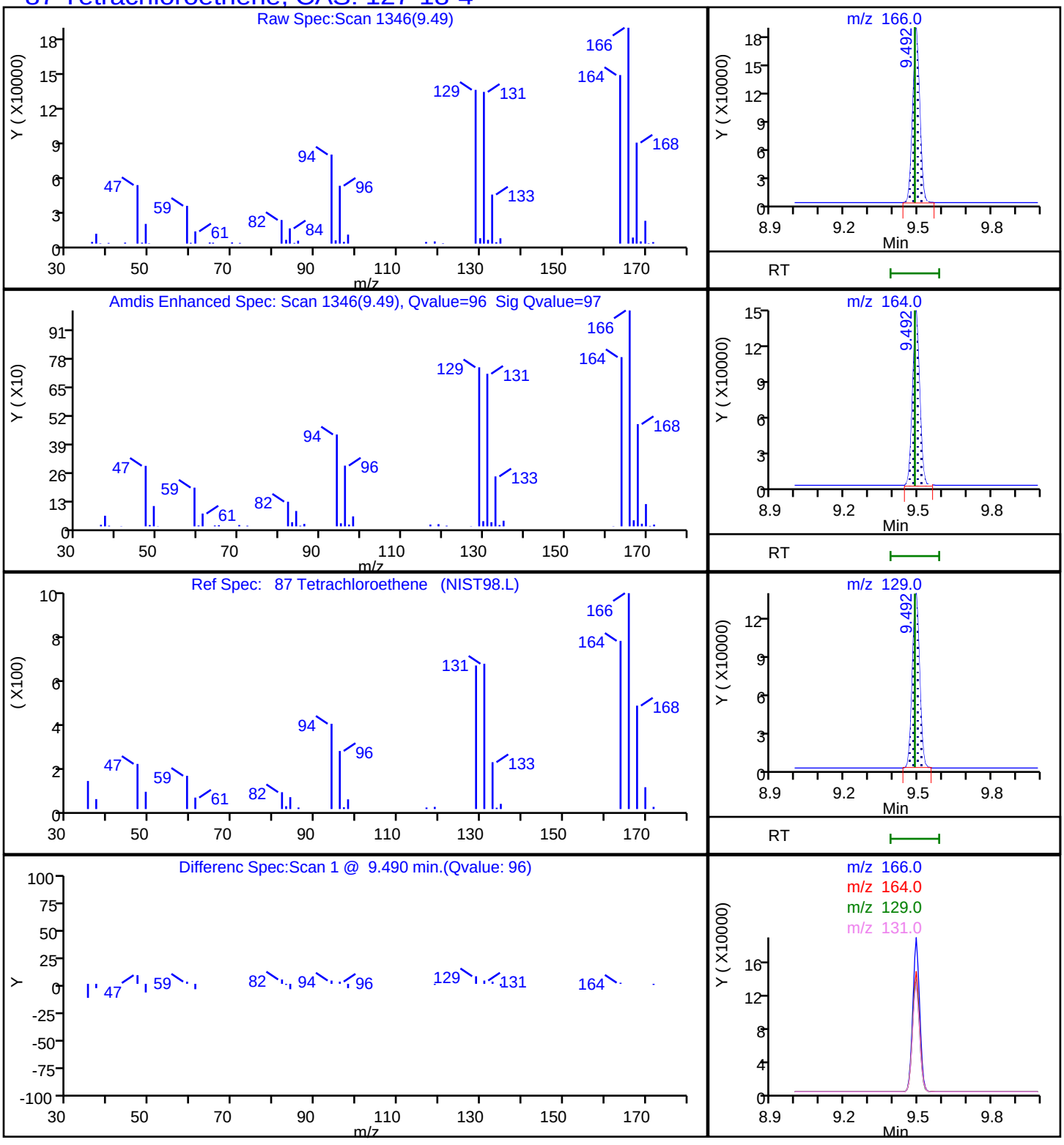
48 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X18.D				
Injection Date:	03-Oct-2024 15:39:30	Instrument ID:	26285		
Lims ID:	410-189937-A-2	Lab Sample ID:	410-189937-2		
Client ID:	HD-CW-22-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

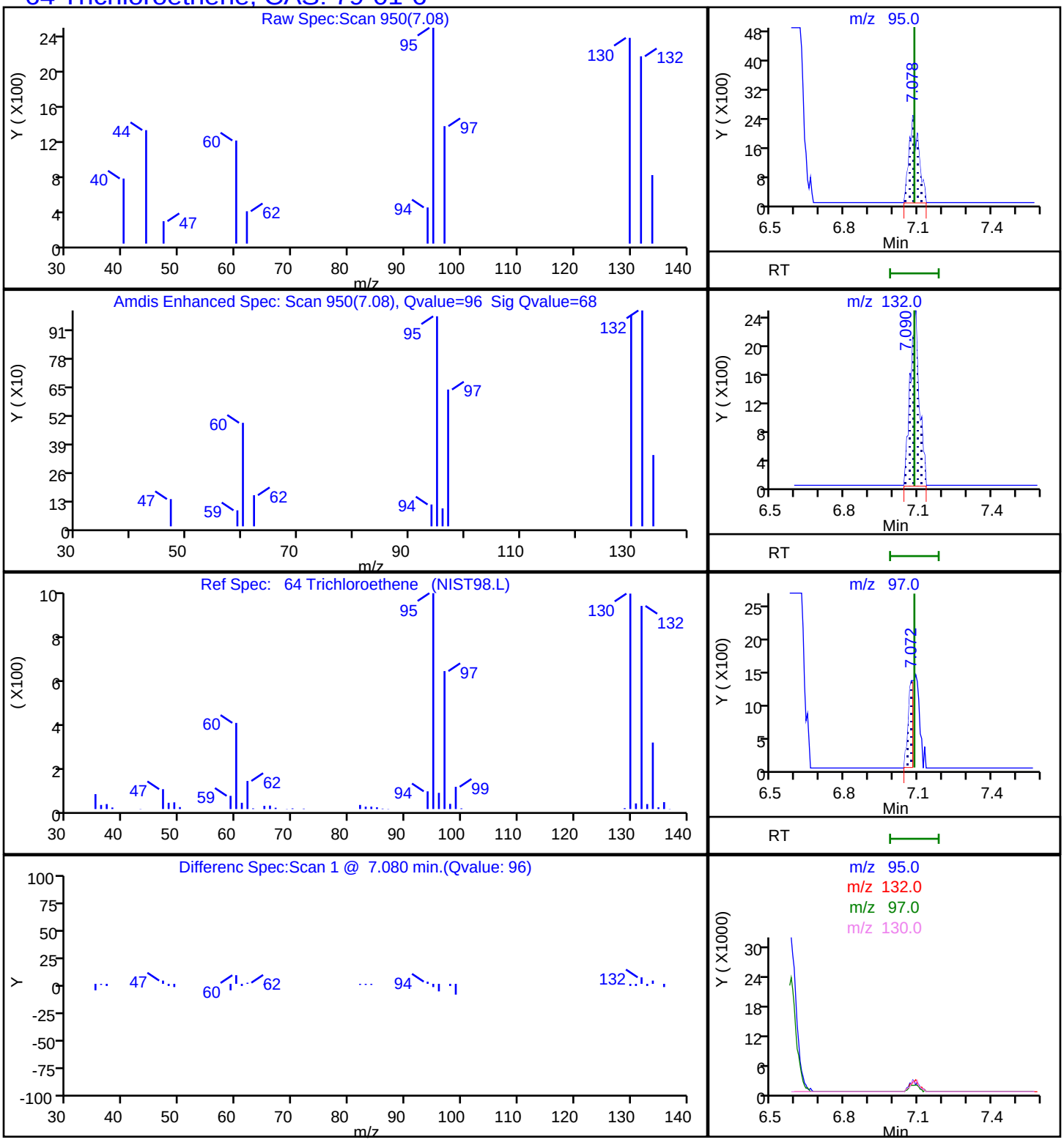
87 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X18.D				
Injection Date:	03-Oct-2024 15:39:30	Instrument ID:	26285		
Lims ID:	410-189937-A-2	Lab Sample ID:	410-189937-2		
Client ID:	HD-CW-22-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

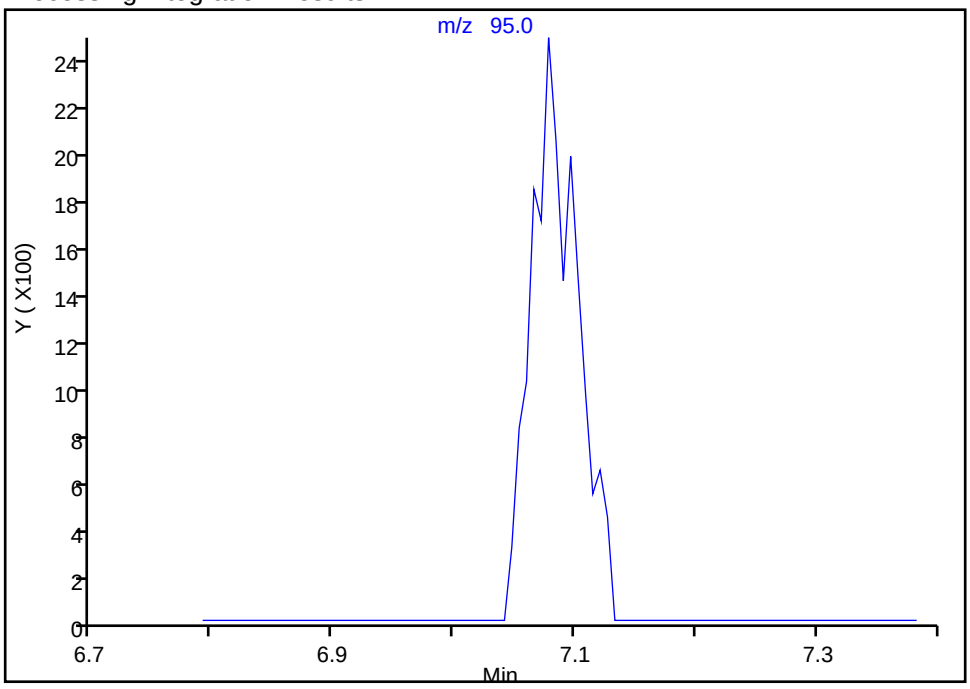
Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X18.D				
Injection Date:	03-Oct-2024 15:39:30	Instrument ID:	26285		
Lims ID:	410-189937-A-2	Lab Sample ID:	410-189937-2		
Client ID:	HD-CW-22-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6

Signal: 1

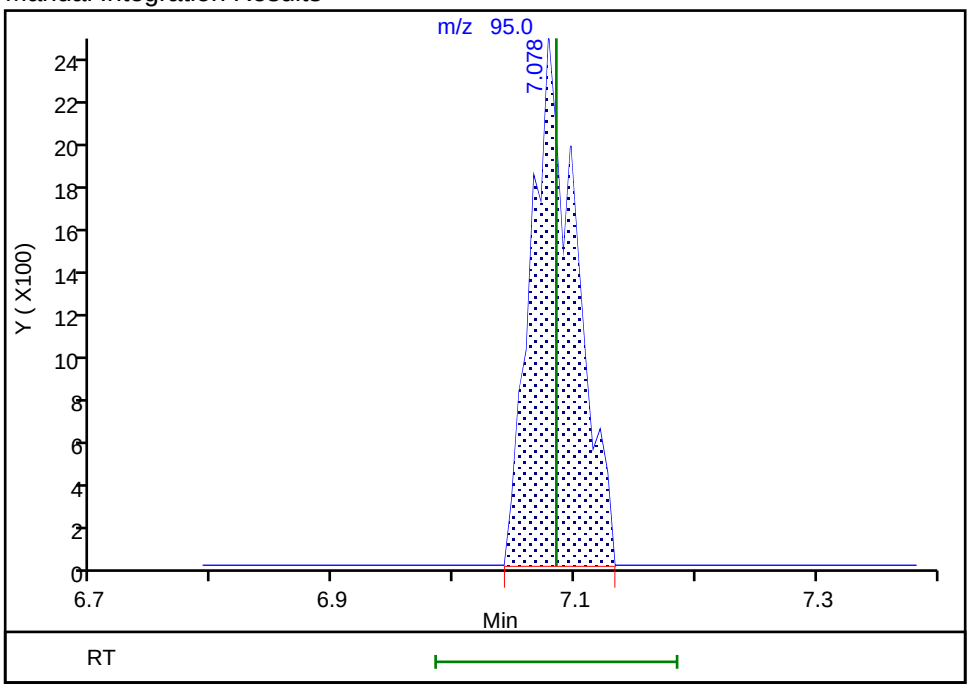
Not Detected
Expected RT: 7.08

Processing Integration Results



Manual Integration Results

RT: 7.08
Area: 6350
Amount: 0.851208
Amount Units: ug/l



Reviewer: N9NA, 04-Oct-2024 07:39:08 07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189937-1

SDG No.:

Client Sample ID: HD-CW-23-0/1-0
Lab Sample ID: 410-189937-3

Matrix: Water
Lab File ID: 5C03X19.D

Analysis Method: 8260D
Date Collected: 09/26/2024 13:53

Sample wt/vol: 5(mL)
Date Analyzed: 10/03/2024 15:59

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.: 558851
Units: ug/L

Preparation Batch No.:
Instrument ID: 26285

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	Ethylene Dibromide	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	^c cn	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	0.47	J	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	^c cn	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	32		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189937-1

SDG No.:

Client Sample ID: HD-CW-23-0/1-0
Lab Sample ID: 410-189937-3

Matrix: Water
Lab File ID: 5C03X19.D

Analysis Method: 8260D
Date Collected: 09/26/2024 13:53

Sample wt/vol: 5(mL)
Date Analyzed: 10/03/2024 15:59

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.: 558851
Units: ug/L

Preparation Batch No.:
Instrument ID: 26285

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
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	0.49	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)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X19.D
Lims ID: 410-189937-A-3
Client ID: HD-CW-23-0/1-0
Sample Type: Client
Inject. Date: 03-Oct-2024 15:59:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126694-020
Operator ID: knk41612 Instrument ID: 26285

Method: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 04-Oct-2024 07:40:23 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1622

First Level Reviewer: N9NA Date: 04-Oct-2024 07:40:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		1.677				ND	
5 Vinyl chloride	62		1.756				ND	
8 Bromomethane	94		2.025				ND	
9 Chloroethane	64		2.049				ND	
18 Acetone	58		2.683				ND	
17 1,1-Dichloroethene	96		2.707				ND	
22 Carbon disulfide	76		2.915				ND	
26 Methylene Chloride	84		3.189				ND	
* 27 t-Butyl alcohol-d10 (IS)	65	3.219	3.207	0.012	96	419710	250.0	
31 trans-1,2-Dichloroethene	96		3.469				ND	
32 Methyl tert-butyl ether	73		3.476				ND	
34 1,1-Dichloroethane	63		4.018				ND	
39 2-Butanone (MEK)	43		4.853				ND	
40 cis-1,2-Dichloroethene	96		4.884				ND	
46 Chlorobromomethane	128		5.231				ND	
48 Chloroform	83	5.408	5.396	0.012	86	6027	0.4713	a
$ 49 Dibromofluoromethane (Surr)	113	5.627	5.628	-0.001	93	317492	54.0	
50 1,1,1-Trichloroethane	97		5.646				ND	
52 Carbon tetrachloride	117		5.859				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.103	6.103	0.000	47	67373	52.3	
57 Benzene	78		6.134				ND	
58 1,2-Dichloroethane	62		6.213				ND	
* 61 Fluorobenzene (IS)	96	6.572	6.572	0.000	98	1116947	50.0	
64 Trichloroethene	95	7.072	7.085	-0.013	92	3533	0.4858	Ma
67 1,2-Dichloropropane	63		7.426				ND	
74 Dichlorobromomethane	83		7.804				ND	
77 cis-1,3-Dichloropropene	75		8.395				ND	
78 4-Methyl-2-pentanone (MIBK)	43		8.609				ND	
$ 79 Toluene-d8 (Surr)	98	8.743	8.743	0.000	95	1068603	47.5	
80 Toluene	92		8.834				ND	
84 trans-1,3-Dichloropropene	75		9.163				ND	
86 1,1,2-Trichloroethane	97		9.401				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 Tetrachloroethene	166	9.486	9.487	-0.001	97	235299	31.9	
90 2-Hexanone	43		9.676				ND	
91 Chlorodibromomethane	129		9.828				ND	
96 Ethylene Dibromide	107		9.938				ND	
* 98 Chlorobenzene-d5 (IS)	117	10.438	10.438	0.000	88	856537	50.0	
99 Chlorobenzene	112		10.462				ND	
128 1,1,1,2-Tetrachloroethane	131		10.566				ND	
129 Ethylbenzene	91		10.572				ND	
130 m-Xylene & p-Xylene	106		10.706				ND	
132 o-Xylene	106		11.059				ND	
133 Styrene	104		11.078				ND	
135 Bromoform	173		11.230				ND	
S 134 Xylenes, Total	106		11.245				ND	7
$ 140 4-Bromofluorobenzene (Surr)	95	11.535	11.535	0.000	90	427349	47.1	
144 1,1,2,2-Tetrachloroethane	83		11.657				ND	
* 158 1,4-Dichlorobenzene-d4	152	12.462	12.462	0.000	96	490325	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_Cent_ISSS_00031 Amount Added: 5.00 Units: uL Run Reagent

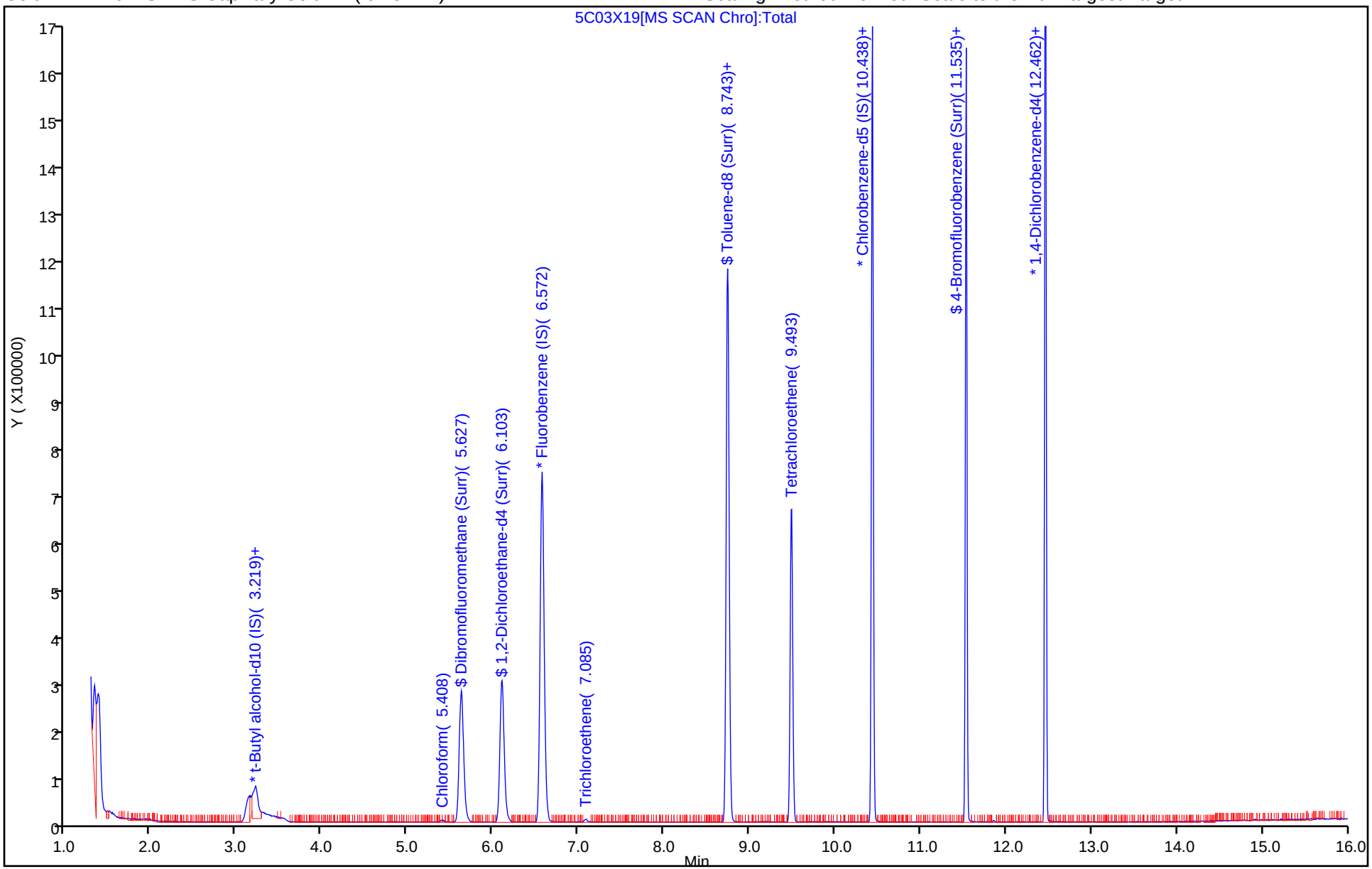
Report Date: 04-Oct-2024 07:40:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X19.D

Injection Date:	03-Oct-2024 15:59:30	Instrument ID:	26285	Operator ID:	knk41612
Lims ID:	410-189937-A-3	Lab Sample ID:	410-189937-3	Worklist Smp#:	20
Client ID:	HD-CW-23-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X19.D				
Lims ID:	410-189937-A-3				
Client ID:	HD-CW-23-0/1-0				
Sample Type:	Client				
Inject. Date:	03-Oct-2024 15:59:30	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126694-020				
Operator ID:	knk41612	Instrument ID:	26285		
Method:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m				
Limit Group:	MSV - 8260C_D				
Last Update:	04-Oct-2024 07:40:23	Calib Date:	23-Jul-2024 22:12:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1622				

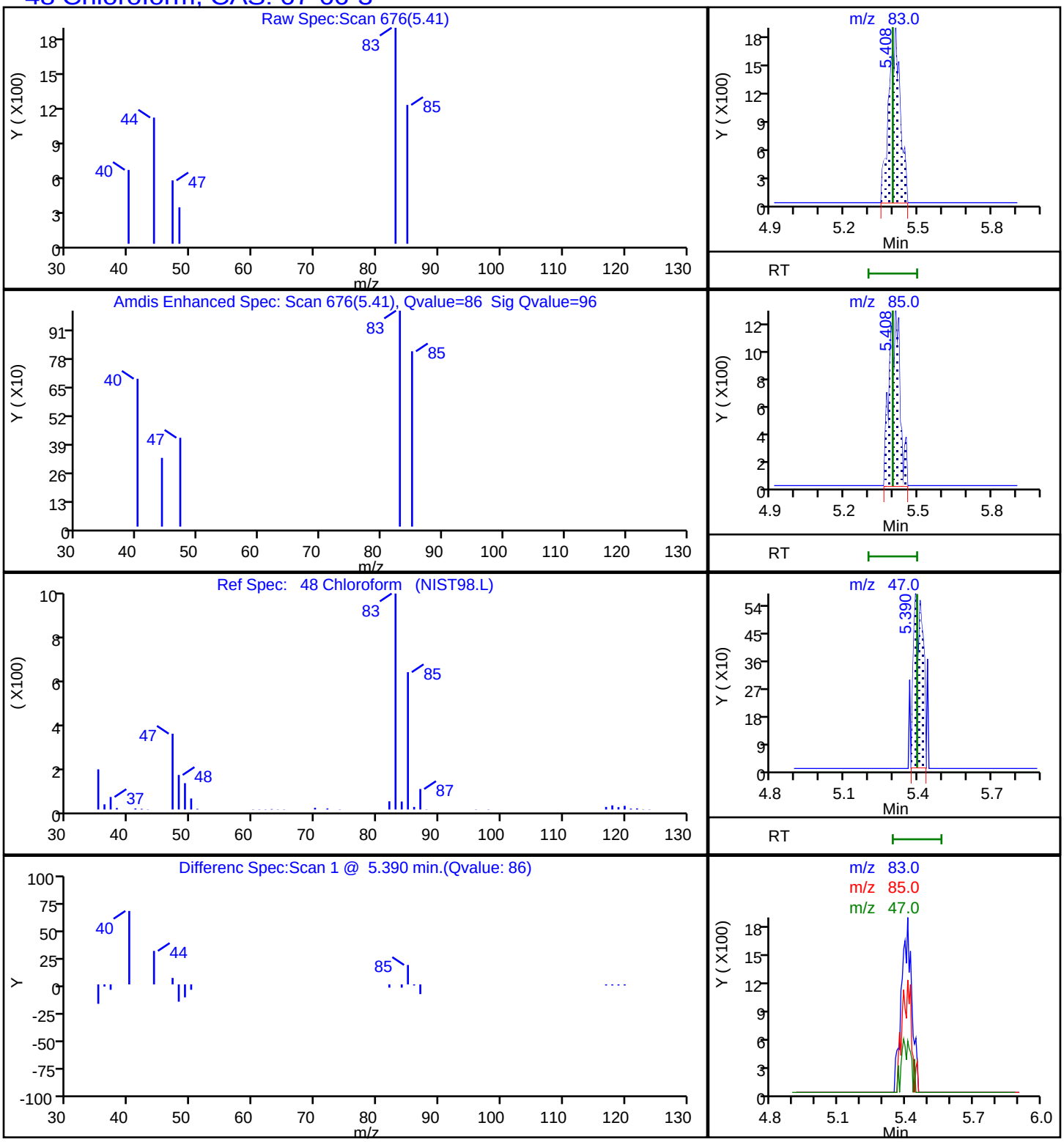
First Level Reviewer: N9NA Date: 04-Oct-2024 07:40:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	50.0	54.0	108.02
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	52.3	104.53
$ 79 Toluene-d8 (Surr)	50.0	47.5	94.95
$ 140 4-Bromofluorobenzene (Surr)	50.0	47.1	94.14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X19.D				
Injection Date:	03-Oct-2024 15:59:30	Instrument ID:	26285		
Lims ID:	410-189937-A-3	Lab Sample ID:	410-189937-3		
Client ID:	HD-CW-23-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

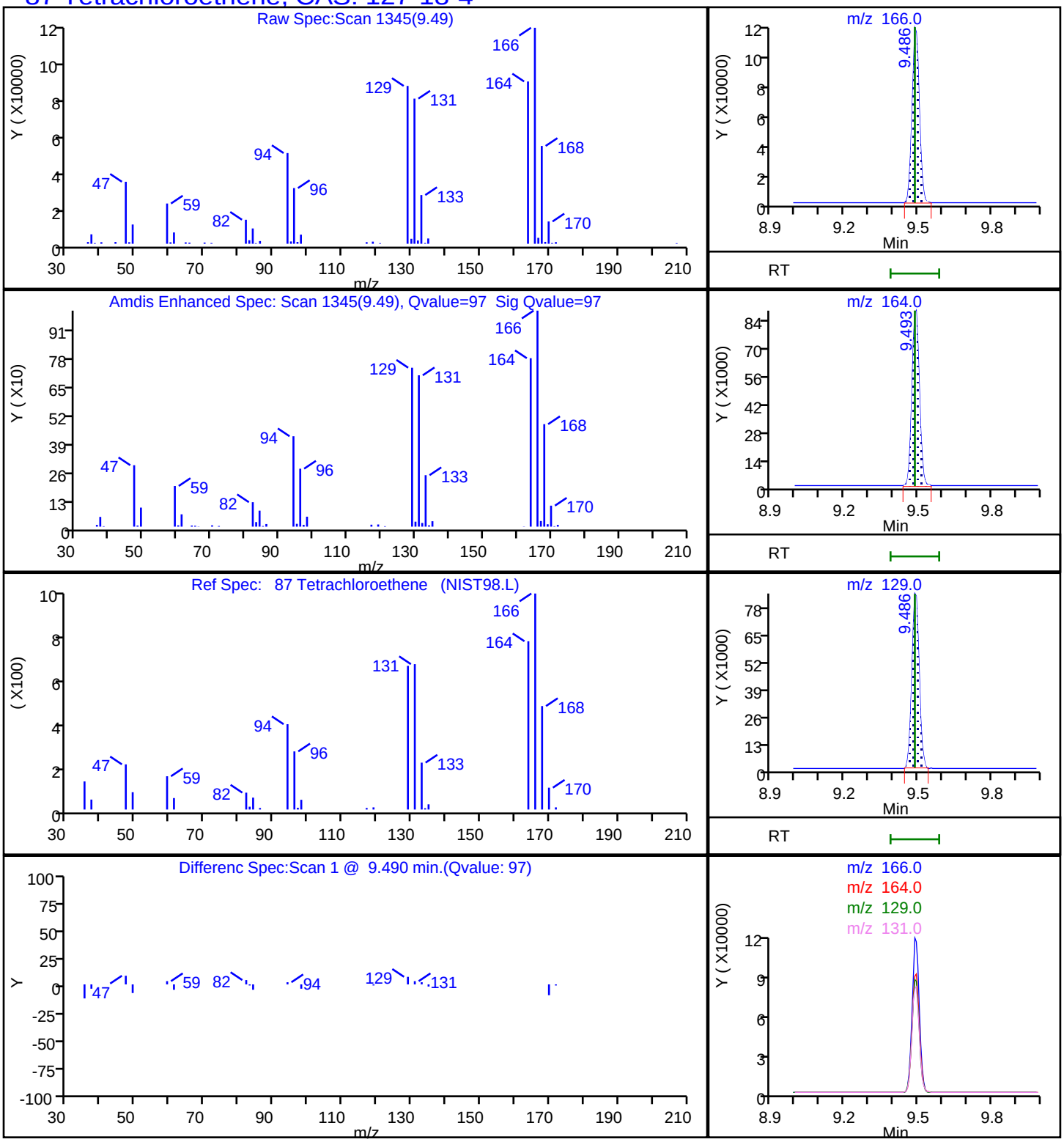
48 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X19.D				
Injection Date:	03-Oct-2024 15:59:30	Instrument ID:	26285		
Lims ID:	410-189937-A-3	Lab Sample ID:	410-189937-3		
Client ID:	HD-CW-23-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

87 Tetrachloroethene, CAS: 127-18-4



Report Date: 04-Oct-2024 07:40:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X19.D

Injection Date: 03-Oct-2024 15:59:30 Instrument ID: 26285

Lims ID: 410-189937-A-3 Lab Sample ID: 410-189937-3

Client ID: HD-CW-23-0/1-0

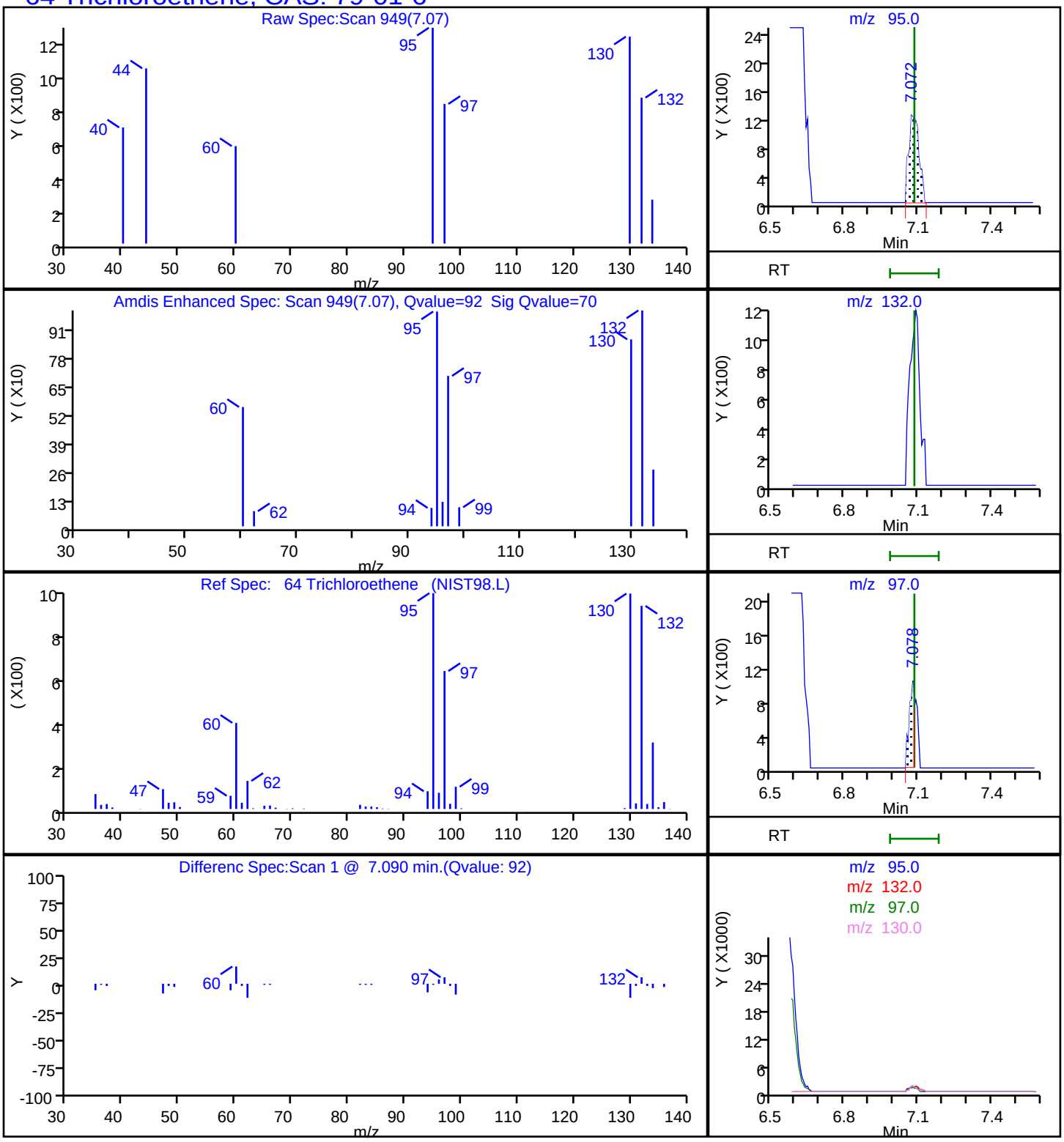
Operator ID: knk41612 ALS Bottle#: 19 Worklist Smp#: 20

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_26285a Limit Group: MSV - 8260C_D

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

64 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

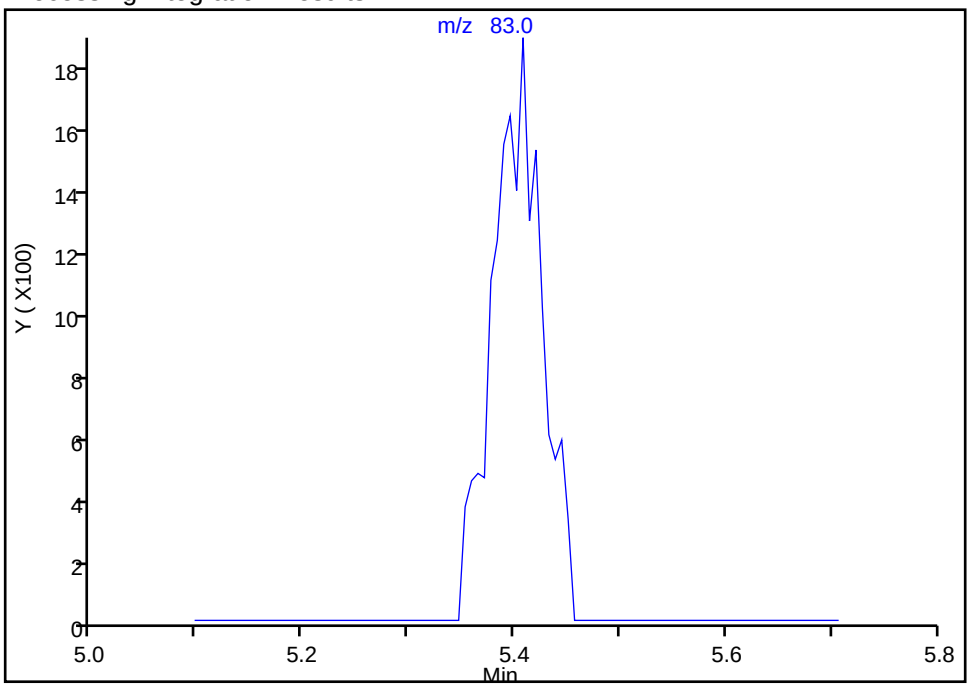
Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X19.D				
Injection Date:	03-Oct-2024 15:59:30	Instrument ID:	26285		
Lims ID:	410-189937-A-3	Lab Sample ID:	410-189937-3		
Client ID:	HD-CW-23-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

48 Chloroform, CAS: 67-66-3

Signal: 1

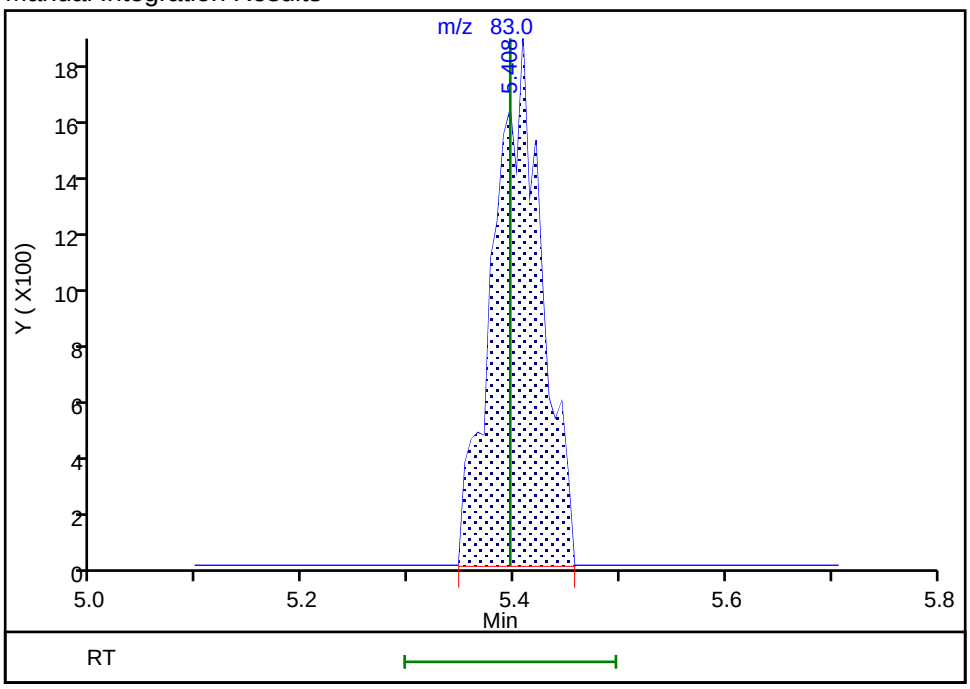
Not Detected
Expected RT: 5.40

Processing Integration Results



Manual Integration Results

RT: 5.41
Area: 6027
Amount: 0.471312
Amount Units: ug/l



Reviewer: N9NA, 04-Oct-2024 07:39:52 07:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

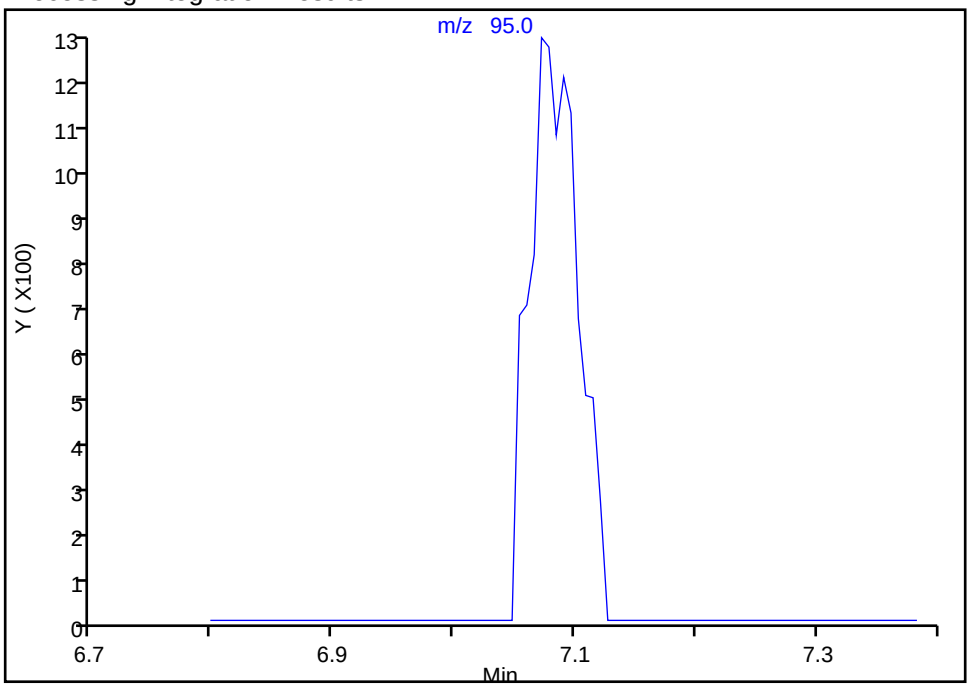
Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X19.D				
Injection Date:	03-Oct-2024 15:59:30	Instrument ID:	26285		
Lims ID:	410-189937-A-3	Lab Sample ID:	410-189937-3		
Client ID:	HD-CW-23-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6

Signal: 1

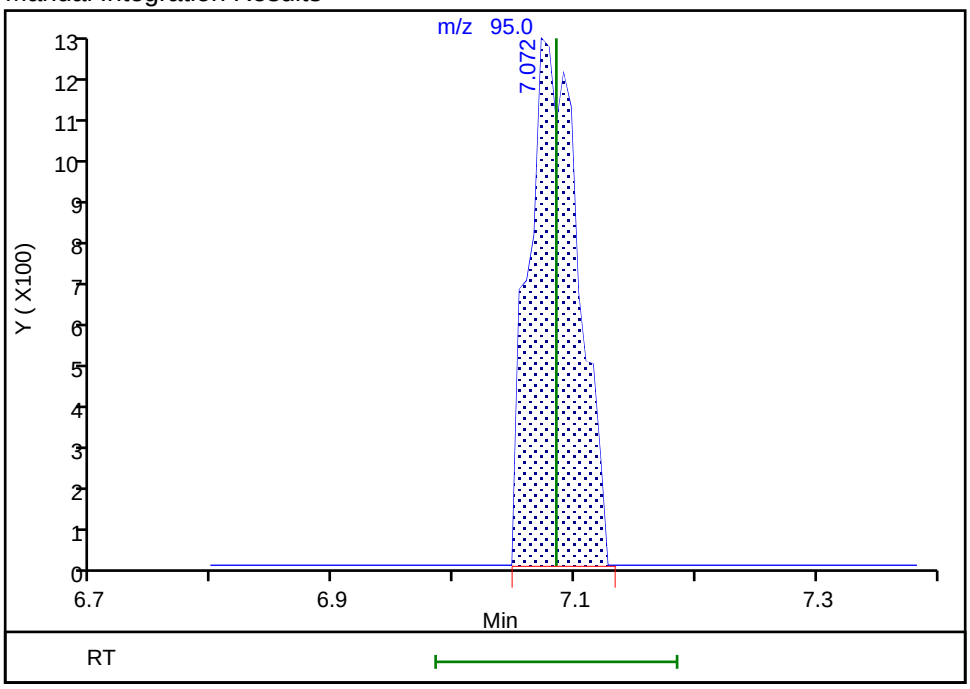
Not Detected
Expected RT: 7.08

Processing Integration Results



Manual Integration Results

RT: 7.07
Area: 3533
Amount: 0.485777
Amount Units: ug/l



Reviewer: N9NA, 04-Oct-2024 07:40:13 07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189937-1

SDG No.:

Client Sample ID: HD-SPBA-EFF-0/1-0
Lab Sample ID: 410-189937-4

Matrix: Water
Lab File ID: 5C03X20.D

Analysis Method: 8260D
Date Collected: 09/26/2024 14:03

Sample wt/vol: 5(mL)
Date Analyzed: 10/03/2024 16:20

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.: 558851
Units: ug/L

Preparation Batch No.:
Instrument ID: 26285

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	Ethylene Dibromide	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	^c cn	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	0.55	J	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	^c cn	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	83		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189937-1

SDG No.:

Client Sample ID: HD-SPBA-EFF-0/1-0
Lab Sample ID: 410-189937-4

Matrix: Water
Lab File ID: 5C03X20.D

Analysis Method: 8260D
Date Collected: 09/26/2024 14:03

Sample wt/vol: 5(mL)
Date Analyzed: 10/03/2024 16:20

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.: 558851
Units: ug/L

Preparation Batch No.:
Instrument ID: 26285

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
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	0.72	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)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	110		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\26285\20241003-126694.b\5C03X20.D
Lims ID: 410-189937-A-4
Client ID: HD-SPBA-EFF-0/1-0
Sample Type: Client
Inject. Date: 03-Oct-2024 16:20:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126694-021
Operator ID: knk41612 Instrument ID: 26285

Method: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 04-Oct-2024 07:41:24 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1622

First Level Reviewer: N9NA Date: 04-Oct-2024 07:41:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		1.677				ND	
5 Vinyl chloride	62		1.756				ND	
8 Bromomethane	94		2.025				ND	
9 Chloroethane	64		2.049				ND	
18 Acetone	58		2.683				ND	
17 1,1-Dichloroethene	96		2.707				ND	
22 Carbon disulfide	76		2.915				ND	7
26 Methylene Chloride	84		3.189				ND	
* 27 t-Butyl alcohol-d10 (IS)	65	3.207	3.207	0.000	96	411759	250.0	
31 trans-1,2-Dichloroethene	96		3.469				ND	
32 Methyl tert-butyl ether	73		3.476				ND	
34 1,1-Dichloroethane	63		4.018				ND	
39 2-Butanone (MEK)	43		4.853				ND	
40 cis-1,2-Dichloroethene	96		4.884				ND	
46 Chlorobromomethane	128		5.231				ND	
48 Chloroform	83	5.402	5.396	0.006	91	7054	0.5509	
$ 49 Dibromofluoromethane (Surr)	113	5.627	5.628	-0.001	92	323456	55.0	
50 1,1,1-Trichloroethane	97		5.646				ND	
52 Carbon tetrachloride	117		5.859				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.109	6.103	0.006	47	69381	53.7	
57 Benzene	78		6.134				ND	
58 1,2-Dichloroethane	62		6.213				ND	
* 61 Fluorobenzene (IS)	96	6.572	6.572	0.000	98	1118421	50.0	
64 Trichloroethene	95	7.078	7.085	-0.007	95	5253	0.7213	Ma
67 1,2-Dichloropropane	63		7.426				ND	
74 Dichlorobromomethane	83		7.804				ND	
77 cis-1,3-Dichloropropene	75		8.395				ND	
78 4-Methyl-2-pentanone (MIBK)	43		8.609				ND	
$ 79 Toluene-d8 (Surr)	98	8.743	8.743	0.000	95	1062057	46.9	
80 Toluene	92		8.834				ND	
84 trans-1,3-Dichloropropene	75		9.163				ND	
86 1,1,2-Trichloroethane	97		9.401				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 Tetrachloroethene	166	9.492	9.487	0.005	96	616220	83.0	
90 2-Hexanone	43		9.676				ND	
91 Chlorodibromomethane	129		9.828				ND	
96 Ethylene Dibromide	107		9.938				ND	
* 98 Chlorobenzene-d5 (IS)	117	10.437	10.438	-0.001	87	861354	50.0	
99 Chlorobenzene	112		10.462				ND	
128 1,1,1,2-Tetrachloroethane	131		10.566				ND	
129 Ethylbenzene	91		10.572				ND	
130 m-Xylene & p-Xylene	106		10.706				ND	
132 o-Xylene	106		11.059				ND	
133 Styrene	104		11.078				ND	
135 Bromoform	173		11.230				ND	
S 134 Xylenes, Total	106		11.245				ND	7
$ 140 4-Bromofluorobenzene (Surr)	95	11.535	11.535	0.000	90	421406	46.2	
144 1,1,2,2-Tetrachloroethane	83		11.657				ND	
* 158 1,4-Dichlorobenzene-d4	152	12.461	12.462	-0.001	96	488227	50.0	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

Reagents:

MSV_Cent_ISSS_00031 Amount Added: 5.00 Units: uL Run Reagent

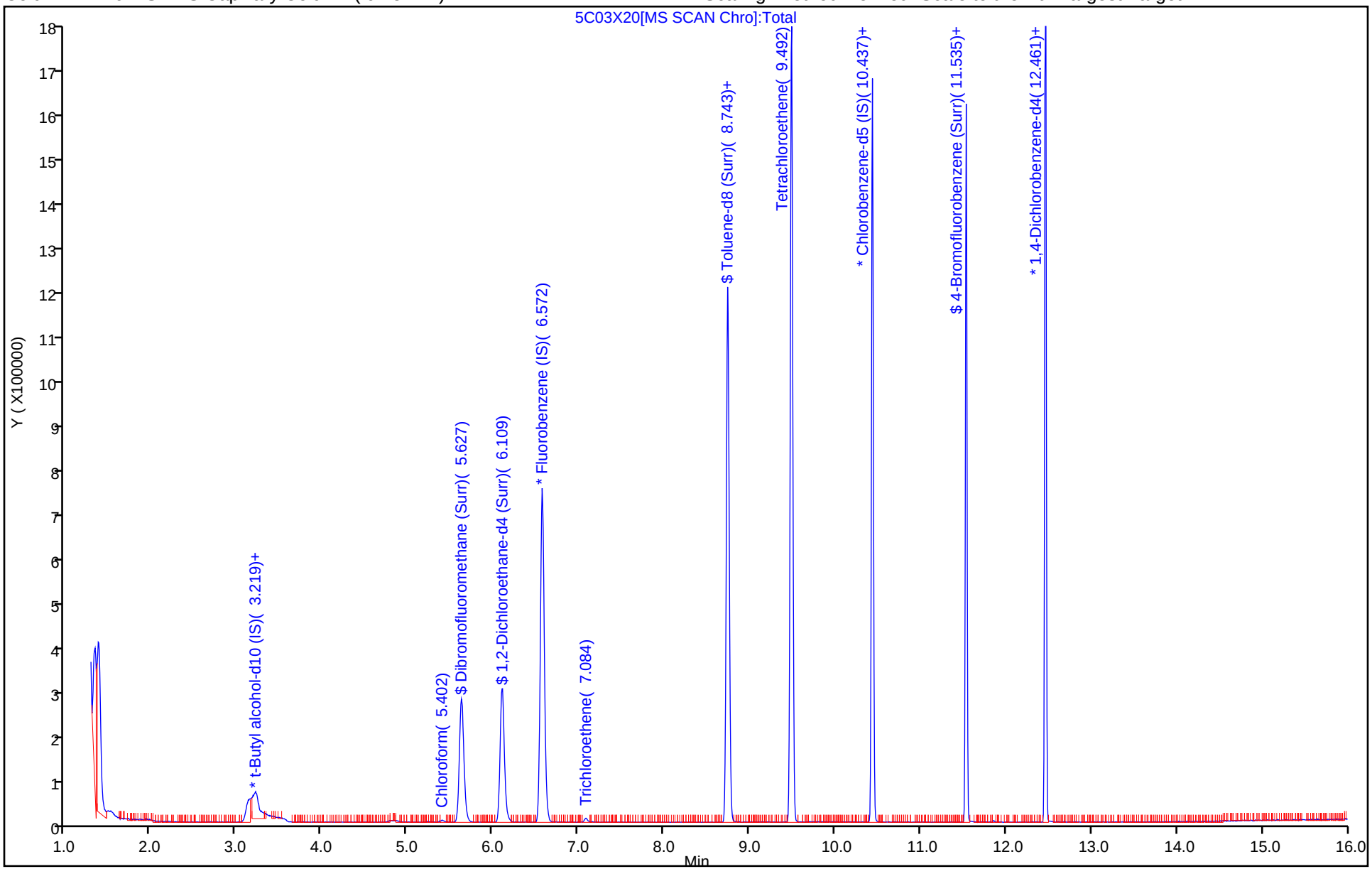
Report Date: 04-Oct-2024 07:41:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X20.D

Injection Date:	03-Oct-2024 16:20:30	Instrument ID:	26285	Operator ID:	knk41612
Lims ID:	410-189937-A-4	Lab Sample ID:	410-189937-4	Worklist Smp#:	21
Client ID:	HD-SPBA-EFF-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X20.D				
Lims ID:	410-189937-A-4				
Client ID:	HD-SPBA-EFF-0/1-0				
Sample Type:	Client				
Inject. Date:	03-Oct-2024 16:20:30	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126694-021				
Operator ID:	knk41612	Instrument ID:	26285		
Method:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m				
Limit Group:	MSV - 8260C_D				
Last Update:	04-Oct-2024 07:41:24	Calib Date:	23-Jul-2024 22:12:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1622				

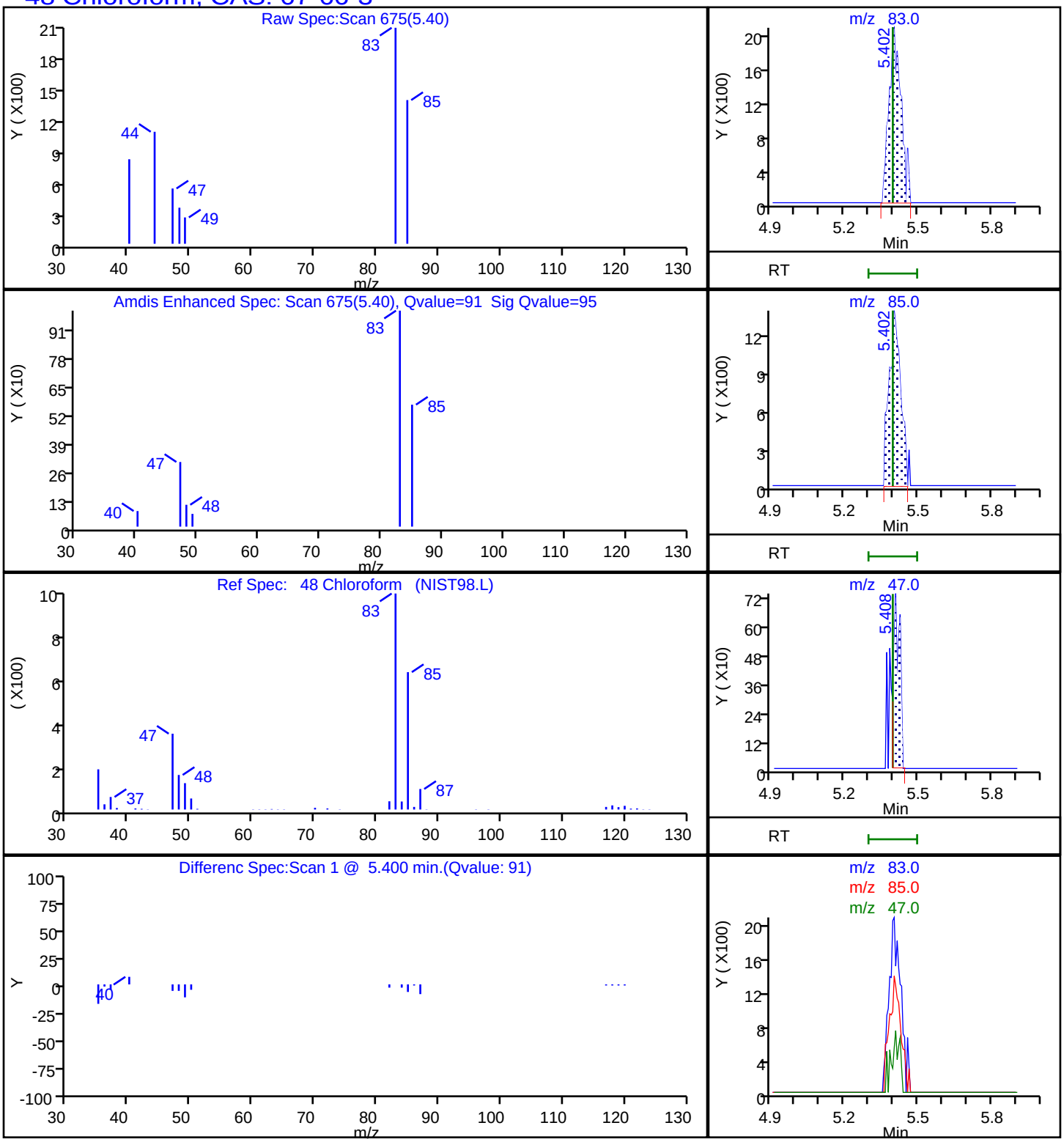
First Level Reviewer: N9NA Date: 04-Oct-2024 07:41:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	50.0	55.0	109.91
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	53.7	107.50
$ 79 Toluene-d8 (Surr)	50.0	46.9	93.84
$ 140 4-Bromofluorobenzene (Surr)	50.0	46.2	92.32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X20.D				
Injection Date:	03-Oct-2024 16:20:30	Instrument ID:	26285		
Lims ID:	410-189937-A-4	Lab Sample ID:	410-189937-4		
Client ID:	HD-SPBA-EFF-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

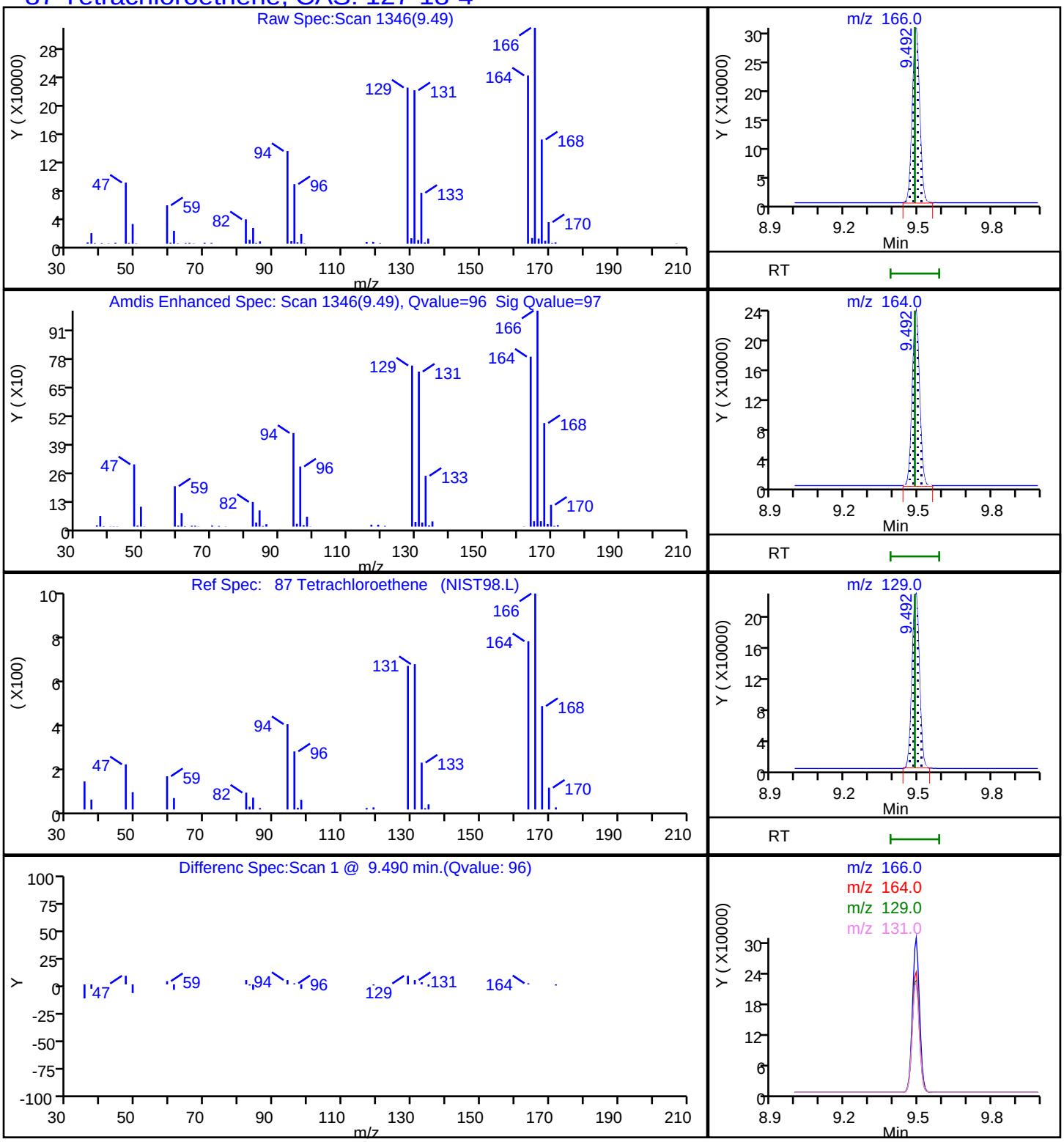
48 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X20.D				
Injection Date:	03-Oct-2024 16:20:30	Instrument ID:	26285		
Lims ID:	410-189937-A-4	Lab Sample ID:	410-189937-4		
Client ID:	HD-SPBA-EFF-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

87 Tetrachloroethene, CAS: 127-18-4



Report Date: 04-Oct-2024 07:41:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X20.D

Injection Date: 03-Oct-2024 16:20:30 Instrument ID: 26285

Lims ID: 410-189937-A-4 Lab Sample ID: 410-189937-4

Client ID: HD-SPBA-EFF-0/1-0

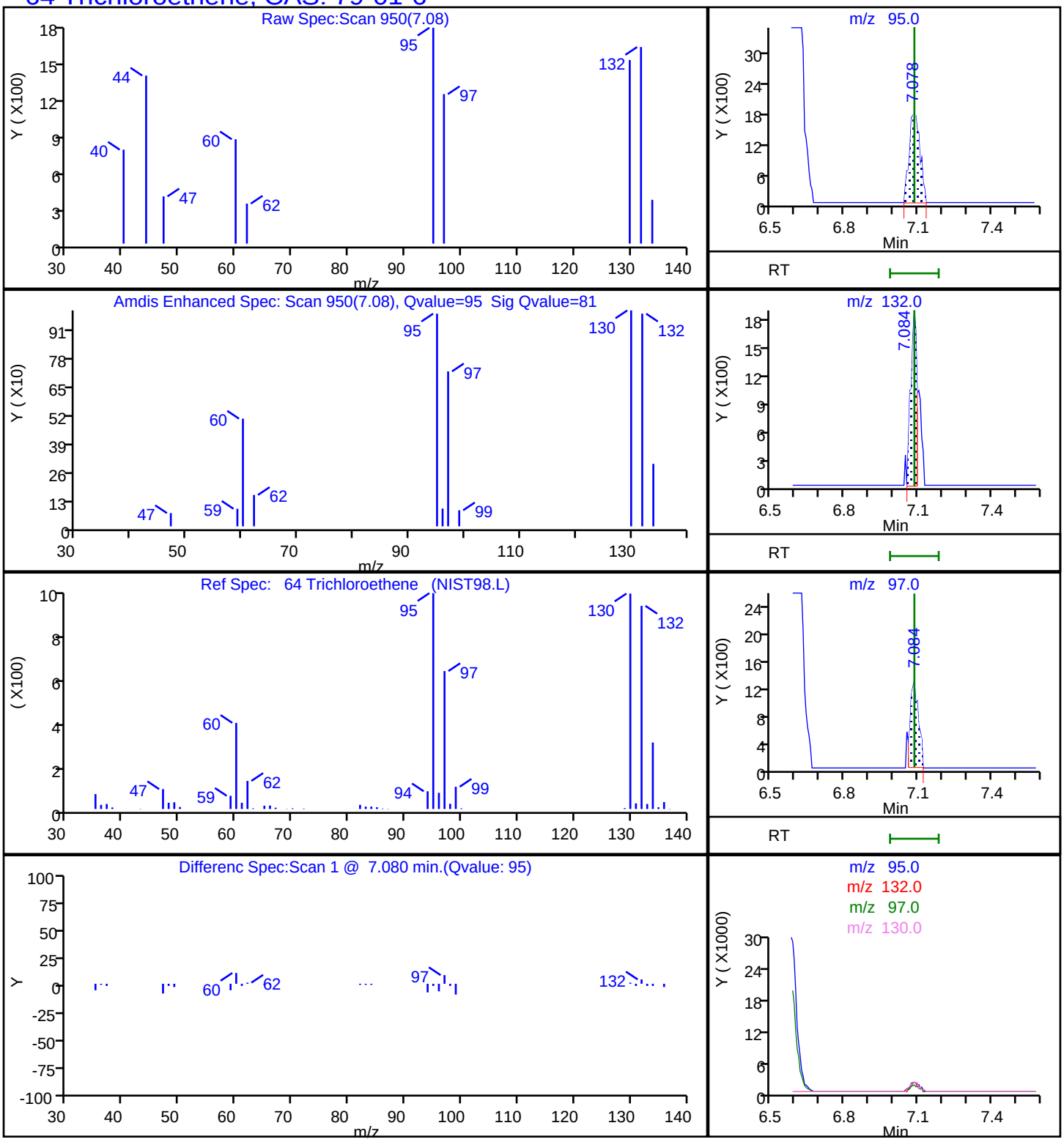
Operator ID: knk41612 ALS Bottle#: 20 Worklist Smp#: 21

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_26285a Limit Group: MSV - 8260C_D

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

64 Trichloroethene, CAS: 79-01-6



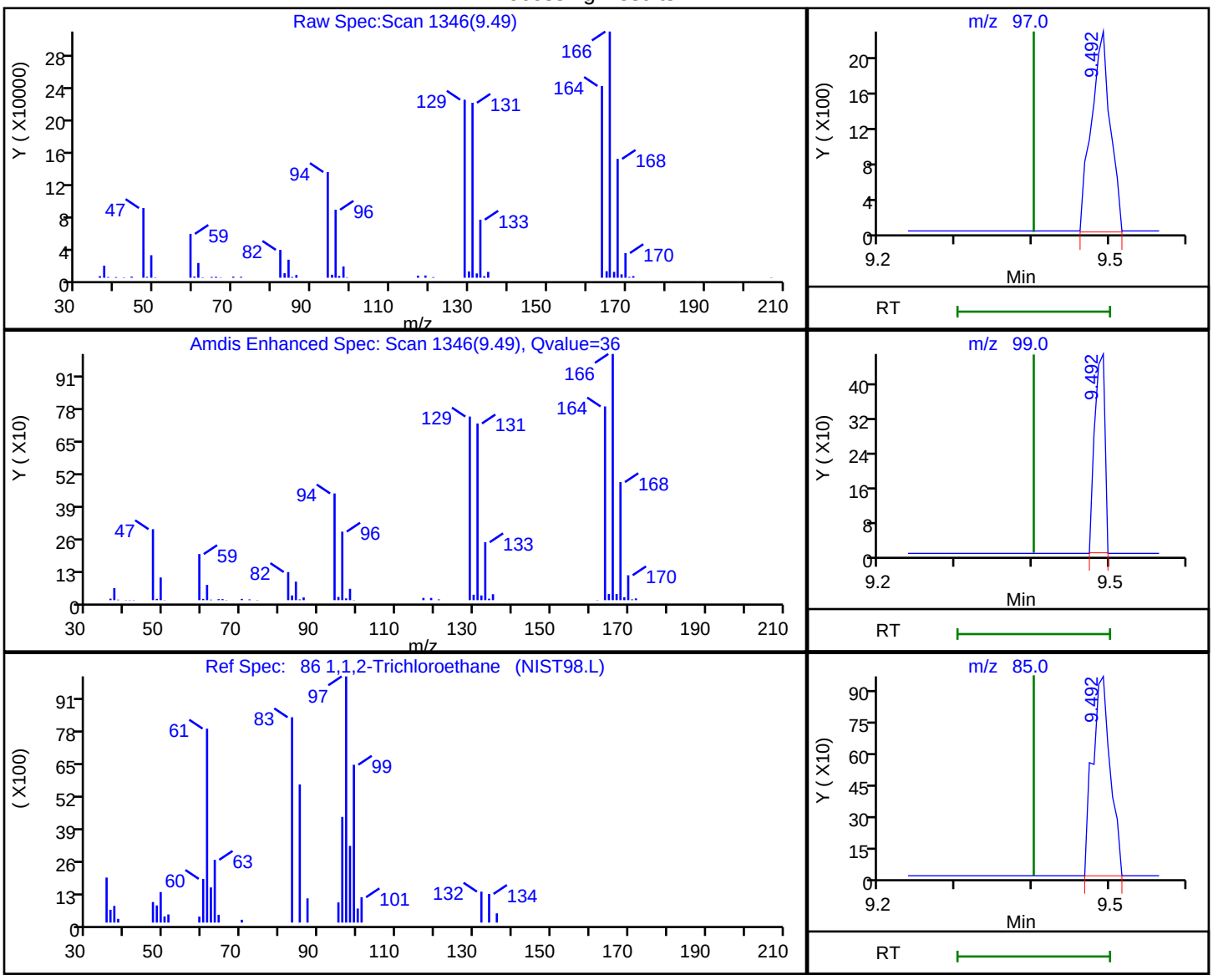
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X20.D				
Injection Date:	03-Oct-2024 16:20:30	Instrument ID:	26285		
Lims ID:	410-189937-A-4	Lab Sample ID:	410-189937-4		
Client ID:	HD-SPBA-EFF-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

86 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
9.49	97.00	3762	0.573353
9.49	99.00	434	
9.49	85.00	1552	
9.49	83.00	11360	

Reviewer: N9NA, 04-Oct-2024 07:41:14 07:00:00 (UTC)

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

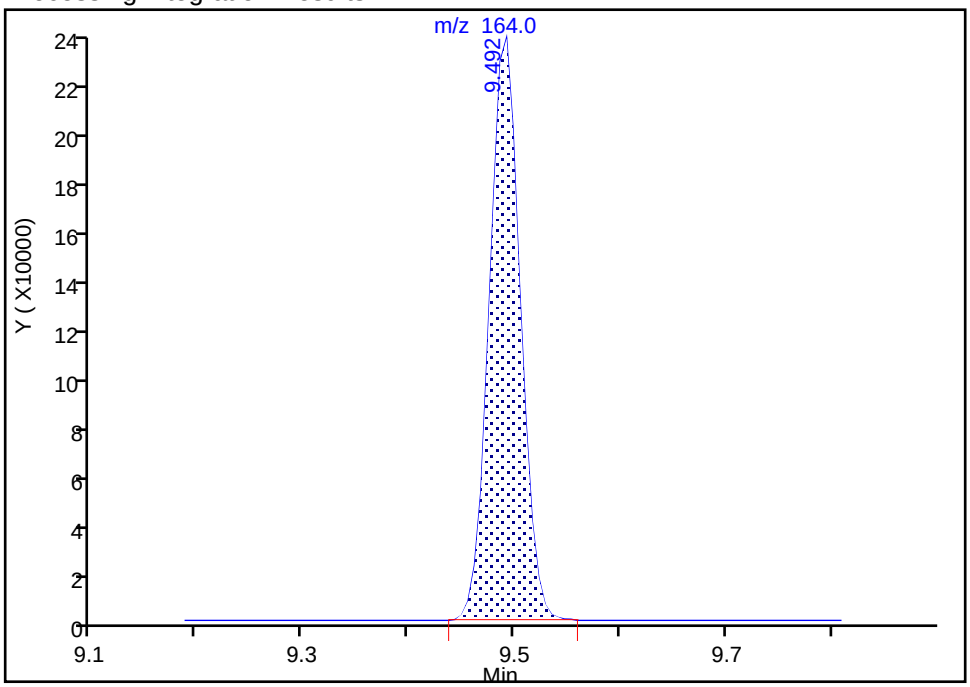
Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X20.D				
Injection Date:	03-Oct-2024 16:20:30	Instrument ID:	26285		
Lims ID:	410-189937-A-4	Lab Sample ID:	410-189937-4		
Client ID:	HD-SPBA-EFF-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

87 Tetrachloroethene, CAS: 127-18-4

Signal: 2

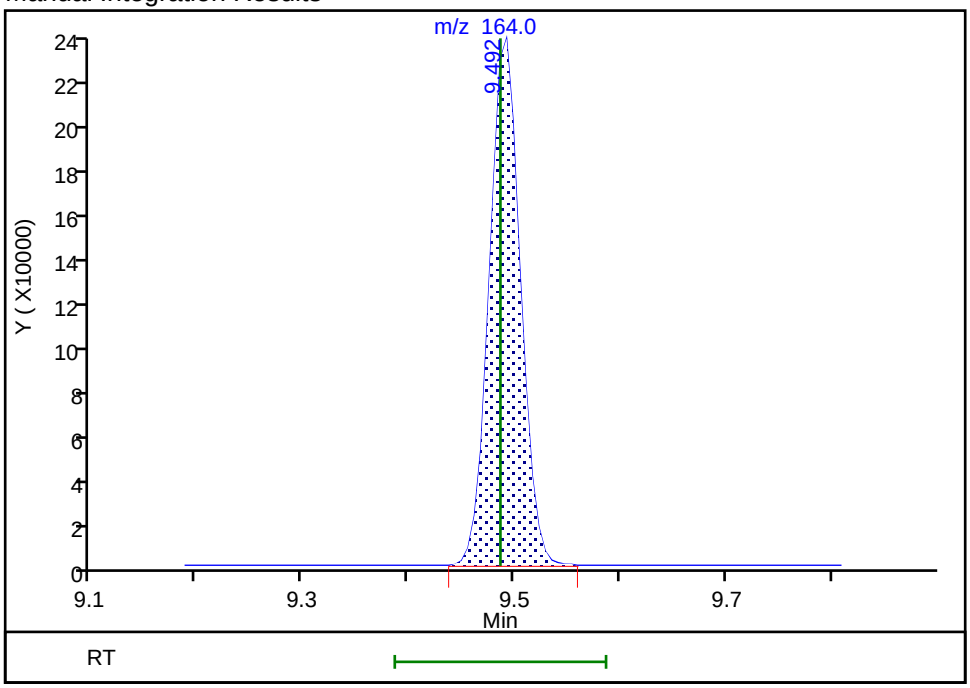
Processing Integration Results

RT: 9.49
Area: 483456
Amount: 82.962452
Amount Units: ug/l



Manual Integration Results

RT: 9.49
Area: 483456
Amount: 82.962452
Amount Units: ug/l



Reviewer: N9NA, 04-Oct-2024 07:41:10 07:00:00 (UTC)

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

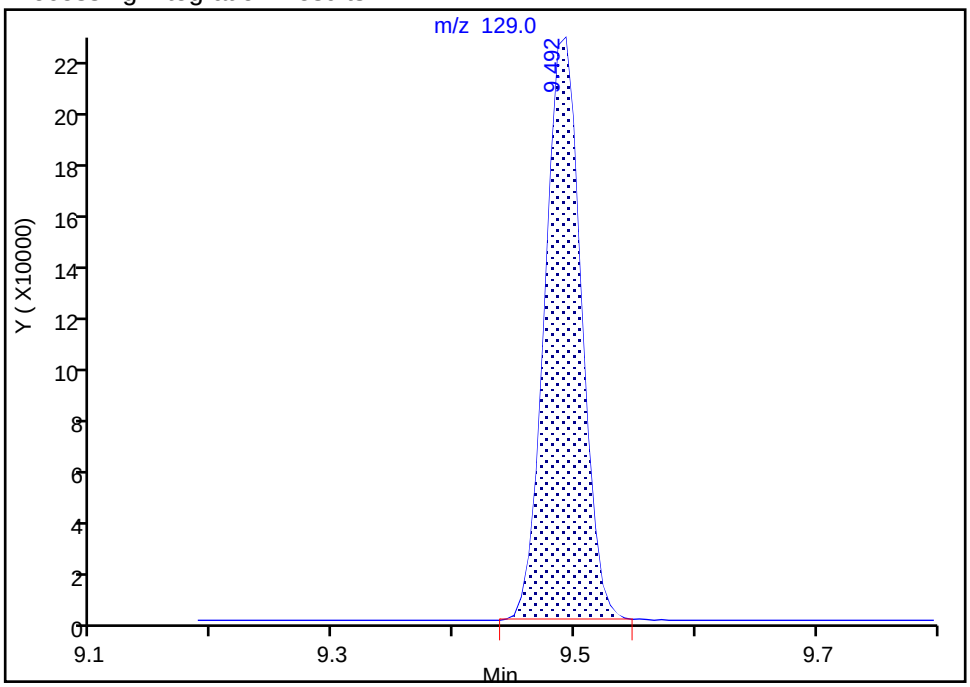
Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X20.D				
Injection Date:	03-Oct-2024 16:20:30	Instrument ID:	26285		
Lims ID:	410-189937-A-4	Lab Sample ID:	410-189937-4		
Client ID:	HD-SPBA-EFF-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

87 Tetrachloroethene, CAS: 127-18-4

Signal: 3

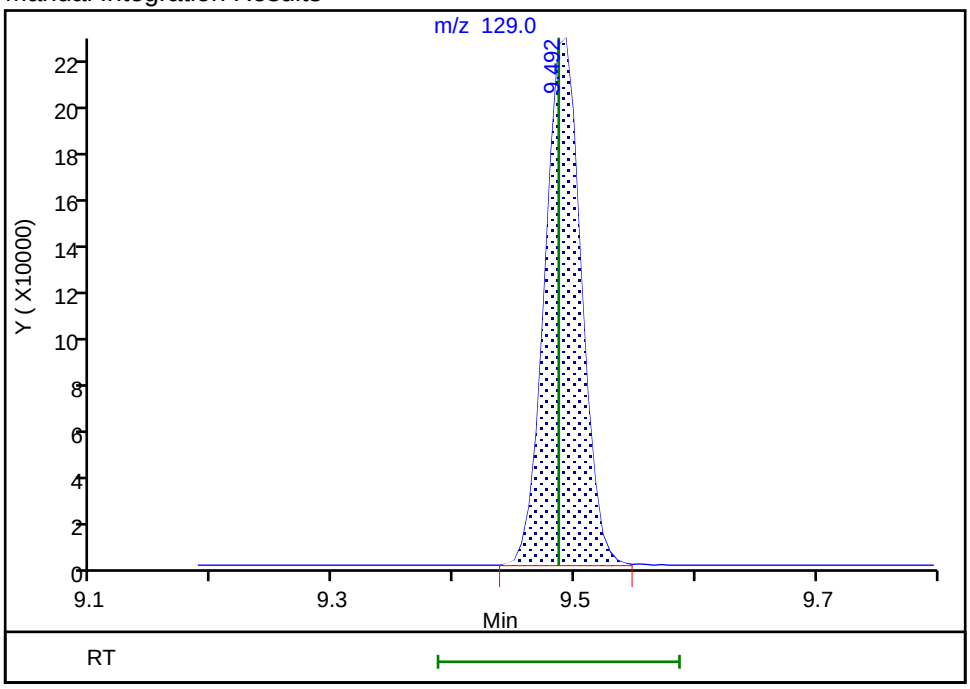
Processing Integration Results

RT: 9.49
Area: 459832
Amount: 82.962452
Amount Units: ug/l



Manual Integration Results

RT: 9.49
Area: 459832
Amount: 82.962452
Amount Units: ug/l



Reviewer: N9NA, 04-Oct-2024 07:41:10 07:00:00 (UTC)

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

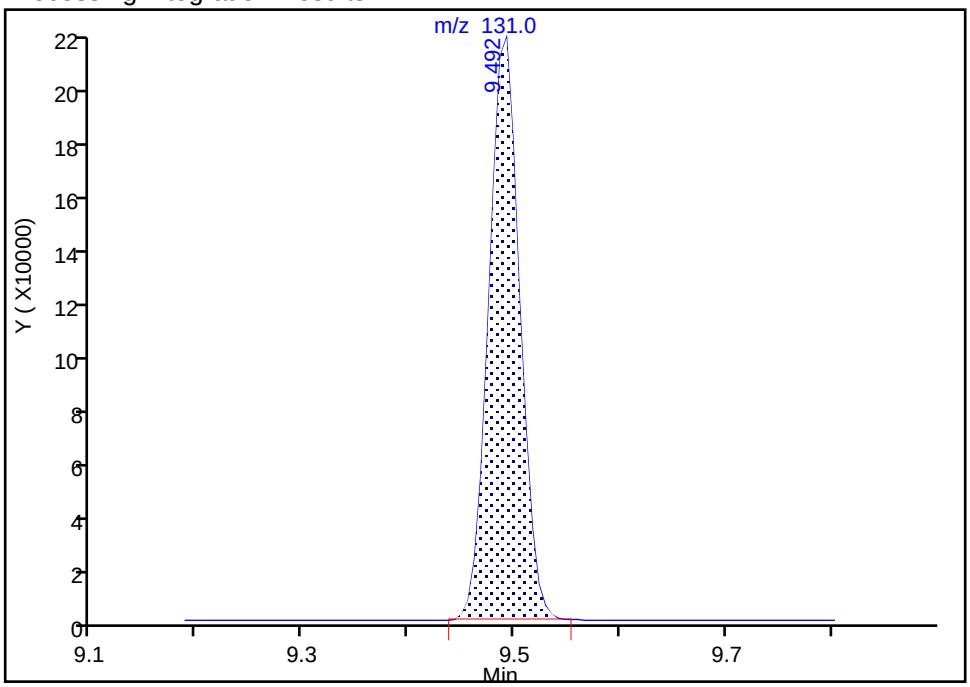
Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X20.D				
Injection Date:	03-Oct-2024 16:20:30	Instrument ID:	26285		
Lims ID:	410-189937-A-4	Lab Sample ID:	410-189937-4		
Client ID:	HD-SPBA-EFF-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

87 Tetrachloroethene, CAS: 127-18-4

Signal: 4

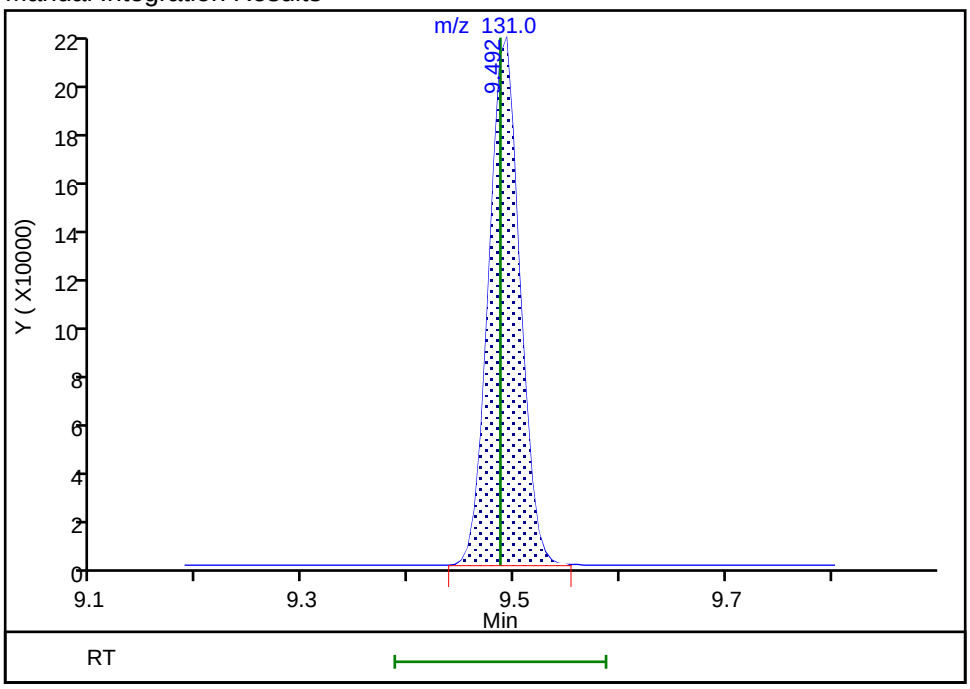
Processing Integration Results

RT: 9.49
Area: 441956
Amount: 82.962452
Amount Units: ug/l



Manual Integration Results

RT: 9.49
Area: 441956
Amount: 82.962452
Amount Units: ug/l



Reviewer: N9NA, 04-Oct-2024 07:41:10 07:00:00 (UTC)

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

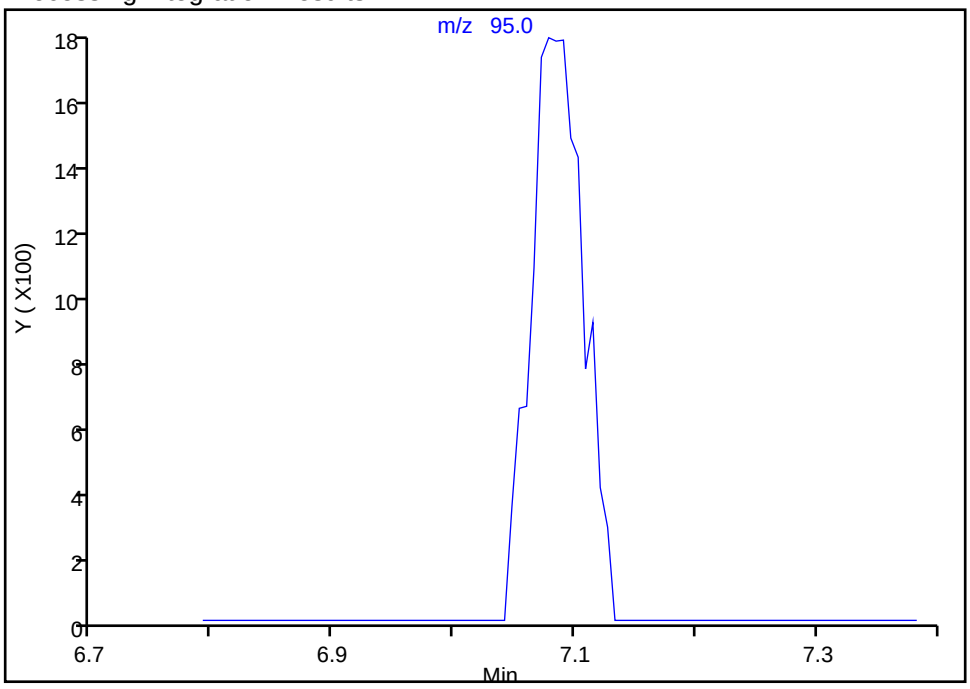
Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X20.D				
Injection Date:	03-Oct-2024 16:20:30	Instrument ID:	26285		
Lims ID:	410-189937-A-4	Lab Sample ID:	410-189937-4		
Client ID:	HD-SPBA-EFF-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6

Signal: 1

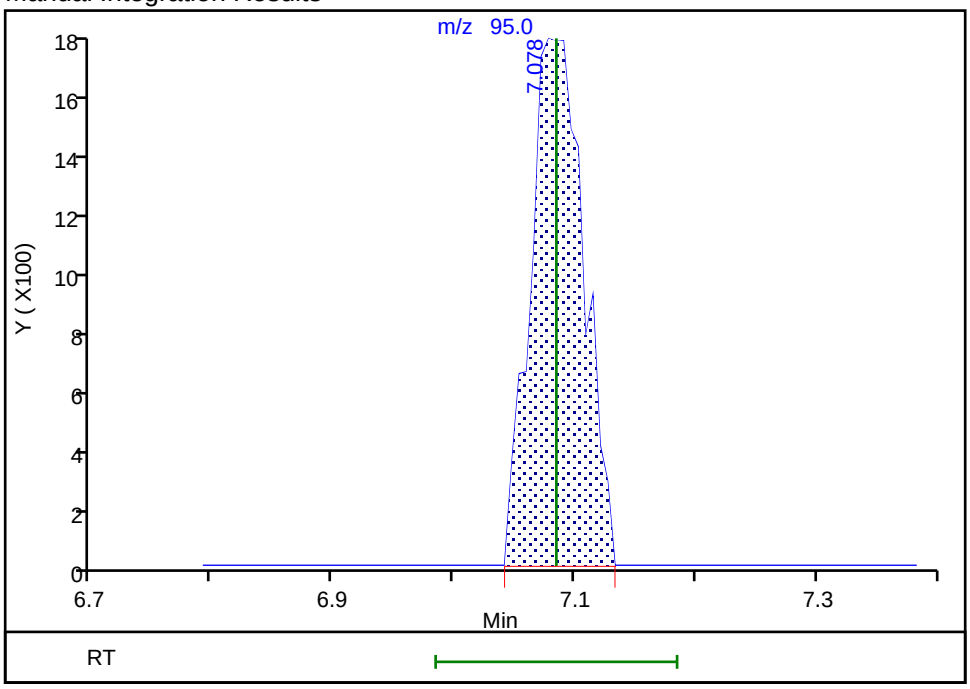
Not Detected
Expected RT: 7.08

Processing Integration Results



Manual Integration Results

RT: 7.08
Area: 5253
Amount: 0.721320
Amount Units: ug/l



Reviewer: N9NA, 04-Oct-2024 07:40:56 07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189937-1

SDG No.:

Client Sample ID: Trip Blank
Lab Sample ID: 410-189937-5

Matrix: Water
Lab File ID: 5C03X08.D

Analysis Method: 8260D
Date Collected: 09/26/2024 00:00

Sample wt/vol: 5(mL)
Date Analyzed: 10/03/2024 12:14

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.: 558851
Units: ug/L

Preparation Batch No.:
Instrument ID: 26285

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	Ethylene Dibromide	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	^c cn	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	^c cn	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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189937-1

SDG No.:

Client Sample ID: Trip Blank
Lab Sample ID: 410-189937-5

Matrix: Water
Lab File ID: 5C03X08.D

Analysis Method: 8260D
Date Collected: 09/26/2024 00:00

Sample wt/vol: 5(mL)
Date Analyzed: 10/03/2024 12:14

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.: 558851
Units: ug/L

Preparation Batch No.:
Instrument ID: 26285

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
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)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X08.D
Lims ID: 410-189937-A-5
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 03-Oct-2024 12:14:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126694-009
Operator ID: knk41612 Instrument ID: 26285

Method: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 04-Oct-2024 07:26:40 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1622

First Level Reviewer: N9NA Date: 04-Oct-2024 07:26:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		1.677				ND	
5 Vinyl chloride	62		1.756				ND	
8 Bromomethane	94		2.025				ND	
9 Chloroethane	64		2.049				ND	
18 Acetone	58		2.683				ND	
17 1,1-Dichloroethene	96		2.707				ND	
22 Carbon disulfide	76		2.915				ND	U
26 Methylene Chloride	84		3.189				ND	
* 27 t-Butyl alcohol-d10 (IS)	65	3.213	3.207	0.006	95	395680	250.0	
31 trans-1,2-Dichloroethene	96		3.469				ND	
32 Methyl tert-butyl ether	73		3.476				ND	
34 1,1-Dichloroethane	63		4.018				ND	
39 2-Butanone (MEK)	43		4.853				ND	
40 cis-1,2-Dichloroethene	96		4.884				ND	
46 Chlorobromomethane	128		5.231				ND	
48 Chloroform	83		5.396				ND	
$ 49 Dibromofluoromethane (Surr)	113	5.627	5.628	-0.001	93	329682	55.6	
50 1,1,1-Trichloroethane	97		5.646				ND	
52 Carbon tetrachloride	117		5.859				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.103	6.103	0.000	47	68501	52.7	
57 Benzene	78		6.134				ND	
58 1,2-Dichloroethane	62		6.213				ND	
* 61 Fluorobenzene (IS)	96	6.578	6.572	0.006	98	1126996	50.0	
64 Trichloroethene	95		7.085				ND	
67 1,2-Dichloropropane	63		7.426				ND	
74 Dichlorobromomethane	83		7.804				ND	
77 cis-1,3-Dichloropropene	75		8.395				ND	
78 4-Methyl-2-pentanone (MIBK)	43		8.609				ND	
$ 79 Toluene-d8 (Surr)	98	8.743	8.743	0.000	95	1072510	47.4	
80 Toluene	92		8.834				ND	
84 trans-1,3-Dichloropropene	75		9.163				ND	
86 1,1,2-Trichloroethane	97		9.401				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 Tetrachloroethene	166		9.487				ND	
90 2-Hexanone	43		9.676				ND	
91 Chlorodibromomethane	129		9.828				ND	
96 Ethylene Dibromide	107		9.938				ND	
* 98 Chlorobenzene-d5 (IS)	117	10.437	10.438	-0.001	87	861850	50.0	
99 Chlorobenzene	112		10.462				ND	
128 1,1,1,2-Tetrachloroethane	131		10.566				ND	
129 Ethylbenzene	91		10.572				ND	
130 m-Xylene & p-Xylene	106		10.706				ND	
132 o-Xylene	106		11.059				ND	
133 Styrene	104		11.078				ND	
135 Bromoform	173		11.230				ND	
S 134 Xylenes, Total	106		11.245				ND	7
$ 140 4-Bromofluorobenzene (Surr)	95	11.535	11.535	0.000	90	419068	45.9	
144 1,1,2,2-Tetrachloroethane	83		11.657				ND	
* 158 1,4-Dichlorobenzene-d4	152	12.467	12.462	0.005	96	482754	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

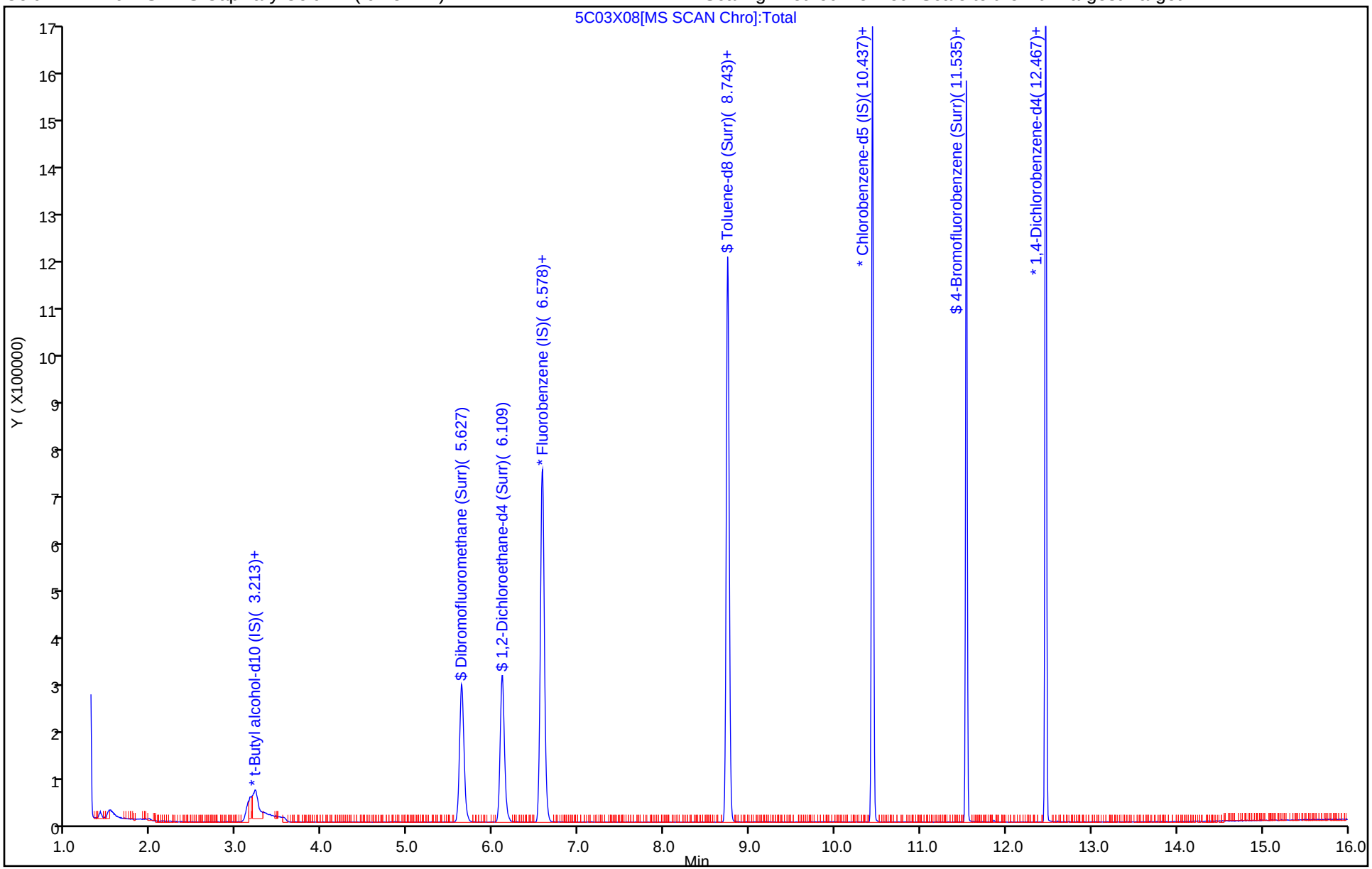
MSV_Cent_ISSS_00031 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 04-Oct-2024 07:26:41 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X08.D				
Injection Date:	03-Oct-2024 12:14:30	Instrument ID:	26285	Operator ID:	knk41612
Lims ID:	410-189937-A-5	Lab Sample ID:	410-189937-5	Worklist Smp#:	9
Client ID:	Trip Blank				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X08.D				
Lims ID:	410-189937-A-5				
Client ID:	Trip Blank				
Sample Type:	Client				
Inject. Date:	03-Oct-2024 12:14:30	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126694-009				
Operator ID:	knk41612	Instrument ID:	26285		
Method:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m				
Limit Group:	MSV - 8260C_D				
Last Update:	04-Oct-2024 07:26:40	Calib Date:	23-Jul-2024 22:12:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1622				

First Level Reviewer: N9NA Date: 04-Oct-2024 07:26:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	50.0	55.6	111.17
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	52.7	105.33
$ 79 Toluene-d8 (Surr)	50.0	47.4	94.71
$ 140 4-Bromofluorobenzene (Surr)	50.0	45.9	91.75

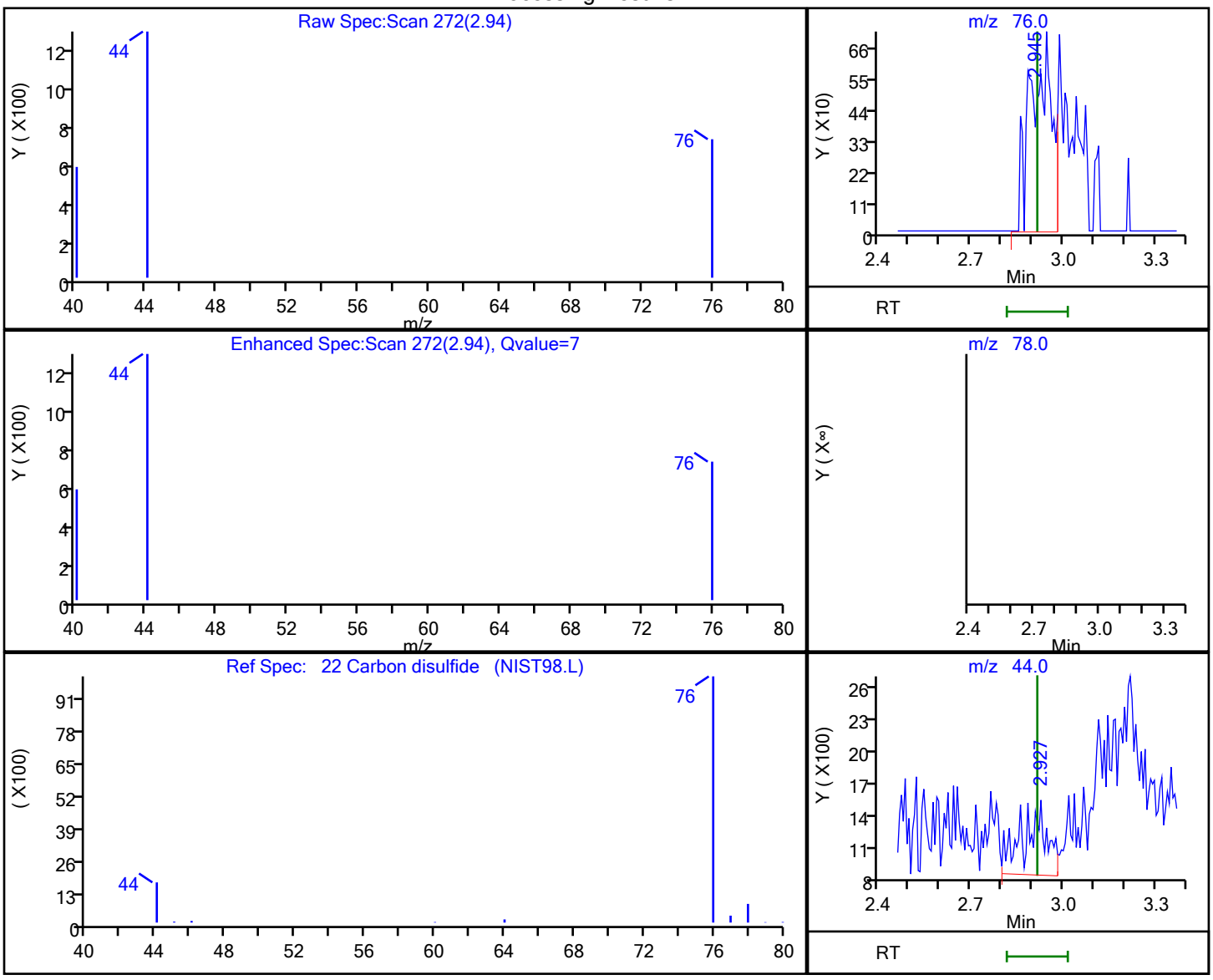
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X08.D				
Injection Date:	03-Oct-2024 12:14:30	Instrument ID:	26285		
Lims ID:	410-189937-A-5	Lab Sample ID:	410-189937-5		
Client ID:	Trip Blank				
Operator ID:	knk41612	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

22 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.94	76.00	3409	0.172270
2.91	78.00	0	
2.93	44.00	3560	

Reviewer: N9NA, 04-Oct-2024 07:26:26 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 Environment Testing, LLC Job No.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-531506/12	5L23X06.D
Level 2	IC 410-531506/13	5L23X07.D
Level 3	IC 410-531506/14	5L23X08.D
Level 4	IC 410-531506/15	5L23X09.D
Level 5	ICIS 410-531506/16	5L23X10.D
Level 6	IC 410-531506/17	5L23X11.D
Level 7	IC 410-531506/18	5L23X12.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	0.3321 0.4602	0.4762 0.4559	0.5323	0.5004	0.5109	Ave		0.4669			0.1000	14.0		20.0			
Chloromethane	0.5299 0.6029	0.6305 0.5560	0.6691	0.6344	0.6145	Ave		0.6053			0.1000	7.9		20.0			
Vinyl chloride	0.3828 0.4873	0.5222 0.4508	0.5528	0.5270	0.5080	Ave		0.4901			0.1000	11.7		20.0			
1,3-Butadiene	0.4208 0.5553	0.6172 0.5151	0.6610	0.6161	0.6035	Ave		0.5698				14.2		20.0			
Bromomethane	0.2855 0.3270	0.3249 0.3061	0.3546	0.3463	0.3374	Ave		0.3260			0.1000	7.3		20.0			
Chloroethane	0.2382 0.2712	0.2819 0.2555	0.3009	0.2922	0.2804	Ave		0.2743			0.1000	7.9		20.0			
Dichlorofluoromethane	0.7478 0.8671	0.8948 0.8134	0.9547	0.9172	0.8842	Ave		0.8685			0.1000	7.9		20.0			
n-Pentane	0.3613 0.3803	0.4296 0.3383	0.3902	0.4515	0.4015	Ave		0.3932				9.8		20.0			
Trichlorofluoromethane	0.4018 0.5658	0.5722 0.5503	0.6244	0.6010	0.6078	Ave		0.5605			0.1000	13.3		20.0			
Ethyl ether	0.1938 0.2069	0.2137 0.1873	0.2113	0.2330	0.2057	Ave		0.2074				7.1		20.0			
Freon 123a	0.3767 0.4375	0.4674 0.4143	0.4924	0.4758	0.4608	Ave		0.4464				9.0		20.0			
Acrolein	1.7619 1.6788	1.7069 1.8122	1.7020	1.8599	1.7330	Ave		1.7507				3.7		20.0			
1,1-Dichloroethene	0.2258 0.2573	0.2802 0.2617	0.2744	0.2807	0.2561	Ave		0.2623			0.1000	7.3		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 Environment Testing, LLC Job No.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetone	0.6606 0.7254	0.7884 0.8553	0.8034	0.8688	0.8015	Ave		0.7862			0.1000	9.2		20.0			
Freon 113	0.2438 0.2927	0.3336 0.3050	0.3148	0.3235	0.3080	Ave		0.3031			0.1000	9.7		20.0			
2-Propanol	0.7917 0.7286	0.7377 0.6591	0.7417	0.7483	0.6749	Ave		0.7260				6.2		20.0			
Methyl iodide	0.4652 0.5273	0.5574 0.5256	0.5356	0.5653	0.5153	Ave		0.5274				6.2		20.0			
Carbon disulfide	0.7660 0.8975	0.9159 +++++	0.9087	0.9357	0.8438	Ave		0.8779			0.1000	7.2		20.0			
Methyl acetate	0.4058 0.4505	0.4214 0.4523	0.4144	0.4883	0.4376	Ave		0.4386			0.1000	6.4		20.0			
Allyl chloride	0.6371 0.5729	0.5790 0.5715	0.5743	0.6021	0.5498	Ave		0.5838				4.8		20.0			
Methylene Chloride	0.3645 0.3320	0.3515 0.3285	0.3406	0.3562	0.3234	Ave		0.3424			0.1000	4.5		20.0			
t-Butyl alcohol	1.3761 1.2908	1.3279 1.2444	1.3865	1.4260	1.2704	Ave		1.3317				5.0		20.0			
Acrylonitrile	0.2129 0.2356	0.2361 0.2157	0.2403	0.2512	0.2194	Ave		0.2302				6.2		20.0			
trans-1,2-Dichloroethene	0.2641 0.2907	0.3157 0.2893	0.3004	0.3161	0.2865	Ave		0.2947			0.1000	6.2		20.0			
Methyl tert-butyl ether	0.9984 1.0044	1.0485 0.9475	1.0295	1.0903	0.9821	Ave		1.0144			0.1000	4.6		20.0			
n-Hexane	0.3183 0.3895	0.4265 0.3729	0.4042	0.4054	0.3999	Ave		0.3881				9.0		20.0			
1,1-Dichloroethane	0.5128 0.5944	0.6144 0.5819	0.6085	0.6410	0.5780	Ave		0.5901			0.2000	6.8		20.0			
Isopropyl ether	1.0944 1.1419	1.1501 1.1086	1.1440	1.2137	1.1039	Ave		1.1367				3.6		20.0			
2-Chloro-1,3-butadiene	0.4409 0.4987	0.5427 0.4975	0.5209	0.5517	0.4983	Ave		0.5072				7.2		20.0			
Ethyl t-butyl ether	0.9507 1.0721	1.0531 1.0266	1.0601	1.1321	1.0213	Ave		1.0451				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 Environment Testing, LLC Job No.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

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)	0.3797 0.3275	0.2851 0.3092	0.3123	0.3261	0.3010	Ave		0.3202			0.1000	9.4		20.0			
cis-1,2-Dichloroethene	0.3184 0.3408	0.3606 0.3331	0.3481	0.3679	0.3316	Ave		0.3429			0.1000	5.0		20.0			
2,2-Dichloropropane	0.4208 0.4804	0.5210 0.4846	0.5004	0.5190	0.4712	Ave		0.4853				7.1		20.0			
Propionitrile	1.1554 1.2412	1.2604 1.3724	1.2878	1.3671	1.2702	Ave		1.2792				5.9		20.0			
Methyl acrylate	0.5620 0.5579	0.5299 0.5279	0.5279	0.5787	0.5254	Ave		0.5442				4.0		20.0			
Methacrylonitrile	0.2058 0.2099	0.2038 0.1997	0.2085	0.2208	0.1977	Ave		0.2066				3.7		20.0			
Bromochloromethane	0.1515 0.1619	0.1709 0.1565	0.1665	0.1768	0.1566	Ave		0.1630				5.5		20.0			
Tetrahydrofuran	1.0693 1.0630	1.1066 1.2056	1.0982	1.2177	1.0819	Ave		1.1203				5.7		20.0			
Chloroform	0.5385 0.5693	0.5940 0.5575	0.5770	0.6161	0.5547	Ave		0.5724			0.2000	4.6		20.0			
1,1,1-Trichloroethane	0.4124 0.4747	0.5062 0.4827	0.4946	0.5130	0.4723	Ave		0.4794			0.1000	6.9		20.0			
Cyclohexane	0.4974 0.5619	0.6225 0.5777	0.5897	0.6098	0.5815	Ave		0.5772			0.1000	7.0		20.0			
Carbon tetrachloride	0.3224 0.4021	0.4076 0.4140	0.4121	0.4290	0.3976	Ave		0.3978			0.1000	8.7		20.0			
1,1-Dichloropropene	0.3677 0.4421	0.4660 0.4466	0.4578	0.4739	0.4362	Ave		0.4415				8.0		20.0			
Isobutyl alcohol	0.5009 0.3891	0.4133 0.4053	0.4215	0.4356	0.3776	Ave		0.4205				9.6		20.0			
Benzene	1.1850 1.2926	1.3266 1.3018	1.2916	1.3678	1.2442	Ave		1.2871			0.5000	4.6		20.0			
1,2-Dichloroethane	0.4338 0.4649	0.4745 0.4483	0.4663	0.4971	0.4364	Ave		0.4602			0.1000	4.9		20.0			
t-Amyl methyl ether	0.9213 0.9994	0.9691 0.9715	0.9736	1.0516	0.9581	Ave		0.9778				4.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

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	0.3924 0.4015	0.4364 0.3780	0.4070	0.3844	0.3859	Ave		0.3979				5.0		20.0			
n-Butanol	0.2579 0.2835	0.2636 0.2888	0.2900	0.2947	0.2715	Ave		0.2786				5.1		20.0			
Trichloroethene	0.2852 0.3270	0.3333 0.3366	0.3300	0.3493	0.3176	Ave		0.3256			0.2000	6.2		20.0			
Ethyl acrylate	0.3739 0.4364	0.4608 0.4239	0.4425	0.4549	0.4626	Ave		0.4364				7.1		20.0			
Methylcyclohexane	0.4172 0.5024	0.5337 0.4943	0.5200	0.5175	0.5091	Ave		0.4992			0.1000	7.7		20.0			
1,2-Dichloropropane	0.3134 0.3544	0.3527 0.3535	0.3436	0.3691	0.3381	Ave		0.3464			0.1000	5.0		20.0			
t-Amyl ethyl ether	0.3946 0.4701	0.4377 0.4669	0.4464	0.4856	0.4470	Ave		0.4498				6.5		20.0			
1,4-Dioxane	0.0096 0.0668	0.0447 0.0707	0.0724	0.0735	0.0717	Lin	-0.7111	0.0706			0.0050				1.0000		0.9900
Dibromomethane	0.1977 0.2215	0.2247 0.2171	0.2197	0.2332	0.2110	Ave		0.2178				5.1		20.0			
Methyl methacrylate	0.2572 0.3010	0.2807 0.3003	0.2920	0.3188	0.2864	Ave		0.2909				6.6		20.0			
Bromodichloromethane	0.3471 0.4295	0.4009 0.4391	0.3978	0.4368	0.4069	Ave		0.4083			0.2000	7.8		20.0			
2-Nitropropane	2.0622 2.0547	1.9713 2.3737	2.0504	2.2976	2.0784	Ave		2.1269				7.0		20.0			
2-Chloroethyl vinyl ether	0.2246 0.2539	0.2366 0.2603	0.2400	0.2764	0.2440	Ave		0.2480				6.9		20.0			
cis-1,3-Dichloropropene	0.4310 0.5513	0.4845 0.5657	0.4987	0.5547	0.5141	Ave		0.5143			0.2000	9.3		20.0			
4-Methyl-2-pentanone (MIBK)	0.5647 0.6619	0.5683 0.6037	0.6212	0.6523	0.6103	Ave		0.6118			0.1000	6.1		20.0			
Toluene	0.9383 1.0466	1.0654 1.0341	1.0482	1.1038	1.0161	Ave		1.0361			0.4000	4.9		20.0			
trans-1,3-Dichloropropene	0.5837 0.6770	0.6003 0.6770	0.6219	0.6820	0.6315	Ave		0.6391			0.1000	6.3		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 Environment Testing, LLC Job No.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

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	0.6301 0.7215	0.6849 0.6794	0.6927	0.7627	0.6876	Ave		0.6941				5.9		20.0			
1,1,2-Trichloroethane	0.3461 0.3900	0.3792 0.3765	0.3874	0.4120	0.3750	Ave		0.3809			0.1000	5.2		20.0			
Tetrachloroethene	0.3696 0.4329	0.4425 0.4261	0.4531	0.4638	0.4302	Ave		0.4312			0.2000	7.0		20.0			
1,3-Dichloropropane	0.6121 0.6607	0.6302 0.6496	0.6497	0.6897	0.6256	Ave		0.6454				4.0		20.0			
2-Hexanone	0.5643 0.6363	0.5629 0.5630	0.6144	0.6382	0.5922	Ave		0.5959			0.1000	5.7		20.0			
Dibromochloromethane	0.3558 0.4517	0.3983 0.4455	0.4072	0.4494	0.4204	Ave		0.4183				8.3		20.0			
Ethylene Dibromide	0.4016 0.4279	0.3935 0.4118	0.4115	0.4467	0.4030	Ave		0.4137			0.1000	4.4		20.0			
Chlorobenzene	1.0224 1.1498	1.1330 1.1248	1.1518	1.2138	1.1083	Ave		1.1292			0.5000	5.1		20.0			
1-Chlorohexane	0.4642 0.5306	0.5804 0.5081	0.5772	0.5861	0.5327	Ave		0.5399				8.3		20.0			
1,1,1,2-Tetrachloroethane	0.3638 0.4377	0.4107 0.4207	0.4259	0.4480	0.4208	Ave		0.4182				6.4		20.0			
Ethylbenzene	1.8414 2.1510	2.1641 2.0281	2.1788	2.2743	2.0882	Ave		2.1037			0.1000	6.6		20.0			
m&p-Xylene	0.7053 0.7959	0.8028 0.7566	0.8208	0.8496	0.7722	Ave		0.7862			0.1000	6.0		20.0			
n-Butyl acrylate	1.0318 1.1659	1.1104 1.0548	1.0969	1.2424	1.1261	Ave		1.1183				6.3		20.0			
o-Xylene	0.7004 0.8151	0.8184 0.7643	0.8227	0.8721	0.7917	Ave		0.7978			0.3000	6.8		20.0			
Styrene	1.1047 1.3023	1.2765 1.2523	1.3003	1.3854	1.2643	Ave		1.2694			0.3000	6.7		20.0			
Bromoform	0.3078 0.3550	0.3136 0.3447	0.3246	0.3522	0.3286	Ave		0.3323			0.1000	5.6		20.0			
Isopropylbenzene	1.5583 1.8922	1.8597 1.7541	1.9643	1.9947	1.8470	Ave		1.8386			0.1000	8.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

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	0.2647 0.2773	0.2722 0.2801	0.2821	0.3112	0.2850	Ave		0.2818				5.2		20.0			
Bromobenzene	0.7996 0.9004	0.8656 0.8796	0.8701	0.9477	0.8588	Ave		0.8745				5.1		20.0			
1,1,2,2-Tetrachloroethane	1.1598 1.3761	1.2876 1.2776	1.3353	1.4239	1.3051	Ave		1.3093			0.3000	6.4		20.0			
trans-1,4-Dichloro-2-butene	0.3613 0.4271	0.3828 0.4010	0.4116	0.4439	0.4033	Ave		0.4044				6.7		20.0			
1,2,3-Trichloropropane	0.3284 0.3617	0.3402 0.3298	0.3634	0.3830	0.3439	Ave		0.3501				5.7		20.0			
N-Propylbenzene	3.6455 4.5437	4.4029 3.8637	4.5707	4.7072	4.3809	Ave		4.3021				9.2		20.0			
2-Chlorotoluene	0.7143 0.8722	0.8615 0.8591	0.8761	0.9080	0.8358	Ave		0.8467				7.4		20.0			
1,3,5-Trimethylbenzene	2.3095 3.1684	2.8711 3.0028	3.0609	3.1426	2.9972	Ave		2.9361				10.0		20.0			
4-Chlorotoluene	0.7002 0.8526	0.8319 0.8403	0.8430	0.8957	0.8184	Ave		0.8260				7.3		20.0			
tert-Butylbenzene	0.3873 0.5551	0.4663 0.5453	0.5196	0.5330	0.5215	Ave		0.5040				11.7		20.0			
1,2,4-Trimethylbenzene	2.5541 3.2263	2.9877 3.0590	3.1545	3.2564	3.0629	Ave		3.0430				7.8		20.0			
sec-Butylbenzene	2.7424 3.8284	3.4770 3.4726	3.7046	3.7472	3.6181	Ave		3.5129				10.4		20.0			
1,3-Dichlorobenzene	1.4208 1.6471	1.5748 1.5884	1.6377	1.7152	1.5820	Ave		1.5951			0.6000	5.7		20.0			
p-Isopropyltoluene	2.3830 3.2490	2.9936 3.0141	3.1376	3.1521	3.0514	Ave		2.9973				9.5		20.0			
1,4-Dichlorobenzene	1.5140 1.6618	1.6273 1.5962	1.6503	1.7111	1.5905	Ave		1.6216			0.5000	3.9		20.0			
1,2,3-Trimethylbenzene	2.5611 3.3162	3.0103 3.1452	3.2364	3.3257	3.1463	Ave		3.1059				8.5		20.0			
Benzyl chloride	2.1279 2.6731	2.3140 2.5364	2.4883	2.6826	2.4879	Ave		2.4729				8.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

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	1.3479 1.8484	1.7580 1.7656	1.8061	1.8231	1.7484	Ave		1.7282				9.9		20.0			
1,4-Diethylbenzene	1.4465 1.9230	1.7780 1.8152	1.8899	1.8890	1.8094	Ave		1.7930				9.0		20.0			
n-Butylbenzene	1.2111 1.6186	1.5409 1.5318	1.6114	1.5877	1.5313	Ave		1.5190				9.3		20.0			
1,2-Dichlorobenzene	1.4651 1.6456	1.6104 1.5846	1.6694	1.7302	1.5801	Ave		1.6122			0.4000	5.2		20.0			
1,2-Diethylbenzene	1.1373 1.5433	1.3923 1.4913	1.4536	1.4881	1.4316	Ave		1.4196				9.4		20.0			
1,2-Dibromo-3-Chloropropane	0.3279 0.3841	0.3261 0.3589	0.3564	0.3800	0.3530	Ave		0.3552			0.0500	6.4		20.0			
1,3,5-Trichlorobenzene	0.9300 1.1623	1.0689 1.0889	1.1260	1.1395	1.0833	Ave		1.0856				7.0		20.0			
1,2,4-Trichlorobenzene	0.9067 1.1220	1.0384 1.0412	1.1037	1.1200	1.0446	Ave		1.0538			0.2000	7.1		20.0			
2-Ethylhexyl acrylate	0.9133 1.3770	1.0842 1.3223	1.1861	1.3770	1.3247	Ave		1.2263				14.3		20.0			
Hexachlorobutadiene	0.3272 0.4543	0.4124 0.4285	0.4290	0.4172	0.4037	Ave		0.4103				9.8		20.0			
Naphthalene	3.5842 4.4338	4.1098 3.6413	4.3285	4.5610	4.1494	Ave		4.1154				9.2		20.0			
1,2,3-Trichlorobenzene	0.9006 1.1183	1.0450 1.0293	1.0720	1.1158	1.0431	Ave		1.0463				7.0		20.0			
2-Methylnaphthalene	1.7089 2.3467	2.0189 2.1044	2.1873	2.3304	2.1829	Ave		2.1257				10.2		20.0			
Dibromofluoromethane (Surr)	0.2666 0.2593	0.2673 0.2568	0.2662	0.2631	0.2628	Ave		0.2631				1.5		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0576 0.0565	0.0584 0.0571	0.0588	0.0579	0.0577	Ave		0.0577				1.3		20.0			
Toluene-d8 (Surr)	1.3183 1.3044	1.3176 1.3006	1.3220	1.3158	1.3191	Ave		1.3140				0.6		20.0			
4-Bromofluorobenzene (Surr)	0.5426 0.5204	0.5380 0.5195	0.5321	0.5326	0.5245	Ave		0.5300				1.7		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 Environment Testing, LLC | Job No.: 410-189937-1 | Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 | GC Column: R-624SilMS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 | Calibration End Date: 07/23/2024 22:12 | Calibration ID: 64083

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-531506/12	5L23X06.D
Level 2	IC 410-531506/13	5L23X07.D
Level 3	IC 410-531506/14	5L23X08.D
Level 4	IC 410-531506/15	5L23X09.D
Level 5	ICIS 410-531506/16	5L23X10.D
Level 6	IC 410-531506/17	5L23X11.D
Level 7	IC 410-531506/18	5L23X12.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	8965 1243568	49138 3734201	140514	262336	688350	1.00 100	4.00 300	10.0	20.0	50.0
Chloromethane	FB	Ave	14306 1629121	65050 4553798	176615	332568	827922	1.00 100	4.00 300	10.0	20.0	50.0
Vinyl chloride	FB	Ave	10335 1316843	53881 3692223	145907	276287	684400	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Butadiene	FB	Ave	11361 1500568	63679 4218826	174471	322960	813174	1.00 100	4.00 300	10.0	20.0	50.0
Bromomethane	FB	Ave	7708 883625	33520 2506701	93614	181564	454526	1.00 100	4.00 300	10.0	20.0	50.0
Chloroethane	FB	Ave	6430 732893	29083 2092255	79432	153162	377777	1.00 100	4.00 300	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	20191 2343015	92322 6661697	252007	480859	1191385	1.00 100	4.00 300	10.0	20.0	50.0
n-Pentane	FB	Ave	9755 1027669	44321 2770910	103009	236700	540961	1.00 100	4.00 300	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	10849 1528993	59042 4507362	164826	315044	818951	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl ether	FB	Ave	5233 558950	22047 1534033	55773	122143	277127	1.000 100.0	4.00 300	10.00	20.0	50.0
Freon 123a	FB	Ave	10170 1182116	48224 3393352	129985	249436	620841	1.00 100	4.00 300	10.0	20.0	50.0
Acrolein	TBAd10	Ave	33090 3580367	127552 9571798	336987	700180	1666746	10.0 1002	40.1 3007	100	200	501
1,1-Dichloroethene	FB	Ave	6097 695292	28915 2143340	72429	147138	345063	1.00 100	4.00 300	10.0	20.0	50.0
Acetone	TBAd10	Ave	2476 308719	11758 901502	31743	65274	153834	2.00 200	8.00 600	20.0	40.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

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
Freon 113	FB	Ave	6582 790948	34425 2498029	83089	169599	414993	1.00 100	4.00 300	10.0	20.0	50.0
2-Propanol	TBAd10	Ave	7418 775197	27503 1736816	73261	140559	323844	5.00 500	20.0 1500	50.0	100	250
Methyl iodide	FB	Ave	12561 1424810	57508 4304936	141388	296343	694329	1.00 100	4.00 300	10.0	20.0	50.0
Carbon disulfide	FB	Ave	20680 2425354	94498 +++++	239878	490533	1136949	1.00 100	4.00 +++++	10.0	20.0	50.0
Methyl acetate	FB	Ave	10955 1217427	43476 3704326	109391	255965	589602	1.00 100	4.00 300	10.0	20.0	50.0
Allyl chloride	FB	Ave	17200 1548195	59739 4680369	151591	315641	740832	1.00 100	4.00 300	10.0	20.0	50.0
Methylene Chloride	FB	Ave	9842 897239	36265 2690151	89895	186713	435713	1.00 100	4.00 300	10.0	20.0	50.0
t-Butyl alcohol	TBAd10	Ave	12894 1373400	49509 3279240	136964	267845	609579	5.00 500	20.0 1500	50.0	100	250
Acrylonitrile	FB	Ave	14373 1591634	60898 4416332	158585	329231	738864	2.50 250	10.0 750	25.0	50.0	125
trans-1,2-Dichloroethene	FB	Ave	7130 785482	32578 2369429	79292	165739	385961	1.00 100	4.00 300	10.0	20.0	50.0
Methyl tert-butyl ether	FB	Ave	26956 2714250	108181 7760254	271754	571601	1323271	1.00 100	4.00 300	10.0	20.0	50.0
n-Hexane	FB	Ave	8593 1052412	44010 3054212	106682	212545	538863	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	13844 1606203	63392 4766149	160630	336037	778743	1.00 100	4.00 300	10.0	20.0	50.0
Isopropyl ether	FB	Ave	29547 3085854	118670 9079966	301967	636268	1487330	1.00 100	4.00 300	10.0	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	11905 1347507	55994 4074511	137496	289216	671362	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl t-butyl ether	FB	Ave	25668 2896985	108659 8407845	279824	593475	1376088	1.00 100	4.00 300	10.0	20.0	50.0
2-Butanone (MEK)	FB	Ave	20505 1770205	58840 5065552	164852	341906	811204	2.00 200	8.00 600	20.0	40.0	100
cis-1,2-Dichloroethene	FB	Ave	8597 920981	37208 2727791	91895	192871	446795	1.00 100	4.00 300	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	11360 1298076	53753 3969270	132083	272104	634868	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.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Propionitrile	TBAd10	Ave	10826 1320680	46992 3616410	127214	256782	609491	5.00 500	20.0 1500	50.0	100	250
Methyl acrylate	FB	Ave	15174 1507713	54681 4323657	139353	303397	707934	1.00 100	4.00 300	10.0	20.0	50.0
Methacrylonitrile	FB	Ave	13894 1418233	52557 4088688	137592	289327	666051	2.50 250	10.0 750	25.0	50.0	125
Bromochloromethane	FB	Ave	4091 437478	17633 1281760	43948	92682	211055	1.00 100	4.00 300	10.0	20.0	50.0
Tetrahydrofuran	TBAd10	Ave	10020 1131068	41258 3176956	108485	228711	519107	5.00 500	20.0 1500	50.0	100	250
Chloroform	FB	Ave	14539 1538458	61291 4565787	152305	322991	747326	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	11135 1282766	52229 3953127	130545	268914	636292	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexane	FB	Ave	13429 1518312	64225 4731355	155672	319688	783439	1.00 100	4.00 300	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	8705 1086534	42057 3390797	108773	224880	535757	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	9928 1194805	48077 3657804	120847	248423	587770	1.00 100	4.00 300	10.0	20.0	50.0
Isobutyl alcohol	TBAd10	Ave	11735 1034983	38518 2670354	104085	204552	452938	12.5 1250	50.0 3750	125	250	625
Benzene	FB	Ave	31993 3493008	136877 10661694	340924	717046	1676325	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	11711 1256286	48957 3671645	123078	260607	587937	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl methyl ether	FB	Ave	24874 2700531	99996 7957098	257002	551318	1290949	1.00 100	4.00 300	10.0	20.0	50.0
n-Heptane	FB	Ave	10593 1084958	45027 3096183	107441	201533	519957	1.00 100	4.00 300	10.0	20.0	50.0
n-Butanol	TBAd10	Ave	6042 754102	24572 1902538	71625	138380	325645	12.5 1250	50.0 3750	125	250	625
Trichloroethene	FB	Ave	7700 883524	34394 2756532	87120	183129	427870	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl acrylate	FB	Ave	10094 1178936	47537 3471547	116788	238419	623164	1.000 100.0	4.00 300	10.00	20.0	50.0
Methylcyclohexane	FB	Ave	11263	55064	137249	271298	685968	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 Environment Testing, LLC | Job No.: 410-189937-1 | Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 | GC Column: R-624SilMS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 | Calibration End Date: 07/23/2024 22:12 | Calibration ID: 64083

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
			1357669	4048457				100	300			
1,2-Dichloropropane	FB	Ave	8461 957554	36389 2895300	90701	193495	455501	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl ethyl ether	FB	Ave	10653 1270253	45162 3823628	117846	254579	602318	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dioxane	TBAd10	Lin	224 177598	4164 465902	17876	34490	86055	12.5 1250	50.0 3750	125	250	625
Dibromomethane	FB	Ave	5337 598472	23186 1778132	57981	122278	284348	1.00 100	4.00 300	10.0	20.0	50.0
Methyl methacrylate	FB	Ave	6944 813418	28966 2459774	77086	167137	385828	1.00 100	4.00 300	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	9370 1160580	41363 3596082	104997	228982	548252	1.00 100	4.00 300	10.0	20.0	50.0
2-Nitropropane	TBAd10	Ave	19323 2186228	73494 6255163	202542	431554	997277	5.00 500	20.0 1500	50.0	100	250
2-Chloroethyl vinyl ether	FB	Ave	6063 686040	24416 2132257	63347	144887	328817	1.00 100	4.00 300	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	11636 1489868	49992 4633320	131646	290792	692716	1.00 100	4.00 300	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	30493 3577174	117270 9888426	327941	683902	1644437	2.00 200	8.00 600	20.0	40.0	100
Toluene	CBZd5	Ave	18018 2076698	78323 6410110	197736	419865	996969	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBZd5	Ave	11209 1343250	44136 4196871	117326	259429	619676	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl methacrylate	CBZd5	Ave	12099 1431688	50352 4211763	130670	290133	674711	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZd5	Ave	6647 773802	27876 2334126	73078	156710	367905	1.00 100	4.00 300	10.0	20.0	50.0
Tetrachloroethene	CBZd5	Ave	7097 859042	32528 2641188	85486	176417	422091	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichloropropane	CBZd5	Ave	11754 1311011	46332 4026685	122564	262347	613798	1.00 100	4.00 300	10.0	20.0	50.0
2-Hexanone	CBZd5	Ave	21671 2524961	82770 6979790	231824	485540	1162043	2.00 200	8.00 600	20.0	40.0	100
Dibromochloromethane	CBZd5	Ave	6832 896320	29282 2761462	76820	170928	412543	1.00 100	4.00 300	10.0	20.0	50.0
Ethylene Dibromide	CBZd5	Ave	7711 849146	28927 2552829	77628	169924	395411	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.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBZd5	Ave	19633 2281514	83297 6972700	217292	461725	1087487	1.00 100	4.00 300	10.0	20.0	50.0
1-Chlorohexane	CBZd5	Ave	8915 1052758	42667 3149949	108897	222948	522688	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZd5	Ave	6986 868449	30194 2607774	80353	170412	412859	1.00 100	4.00 300	10.0	20.0	50.0
Ethylbenzene	CBZd5	Ave	35360 4268153	159097 12572221	411037	865098	2048936	1.00 100	4.00 300	10.0	20.0	50.0
m&p-Xylene	CBZd5	Ave	27089 3158315	118043 9379820	309697	646320	1515455	2.00 200	8.00 600	20.0	40.0	100
n-Butyl acrylate	CBZd5	Ave	19815 2313650	81639 6538848	206951	472624	1105011	1.00 100	4.00 300	10.0	20.0	50.0
o-Xylene	CBZd5	Ave	13449 1617249	60168 4738136	155200	331746	776787	1.00 100	4.00 300	10.0	20.0	50.0
Styrene	CBZd5	Ave	21213 2584142	93844 7762874	245301	526985	1240550	1.00 100	4.00 300	10.0	20.0	50.0
Bromoform	CBZd5	Ave	5911 704453	23052 2136813	61236	133963	322377	1.00 100	4.00 300	10.0	20.0	50.0
Isopropylbenzene	CBZd5	Ave	29924 3754602	136720 10873439	370570	758738	1812271	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexanone	TBAd10	Ave	24801 737725	101470 1845262	139307	292291	341897	50.0 1250	200 3750	250	500	625
Bromobenzene	DCBd4	Ave	8921 981406	36728 2931674	94018	203705	469522	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd4	Ave	12940 1499820	54635 4257939	144282	306072	713552	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd4	Ave	10078 1163859	40604 3341456	111181	238529	551188	2.50 250	10.0 750	25.0	50.0	125
1,2,3-Trichloropropane	DCBd4	Ave	3664 394220	14435 1099163	39267	82334	188007	1.00 100	4.00 300	10.0	20.0	50.0
N-Propylbenzene	DCBd4	Ave	40674 4952239	186823 12877273	493862	1011810	2395189	1.00 100	4.00 300	10.0	20.0	50.0
2-Chlorotoluene	DCBd4	Ave	7970 950660	36553 2863420	94659	195181	456936	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd4	Ave	25768 3453287	121827 10007842	330725	675490	1638700	1.00 100	4.00 300	10.0	20.0	50.0
4-Chlorotoluene	DCBd4	Ave	7812 929313	35298 2800750	91083	192538	447454	1.00 100	4.00 300	10.0	20.0	50.0
tert-Butylbenzene	DCBd4	Ave	4321	19786	56144	114571	285141	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 Environment Testing, LLC | Job No.: 410-189937-1 | Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 | GC Column: R-624SilMS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 | Calibration End Date: 07/23/2024 22:12 | Calibration ID: 64083

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
			605005	1817275				100	300			
1,2,4-Trimethylbenzene	DCBd4	Ave	28497 3516405	126774 10195165	340840	699957	1674614	1.00 100	4.00 300	10.0	20.0	50.0
sec-Butylbenzene	DCBd4	Ave	30598 4172610	147533 11573771	400274	805461	1978145	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd4	Ave	15852 1795233	66820 5293988	176955	368671	864927	1.00 100	4.00 300	10.0	20.0	50.0
p-Isopropyltoluene	DCBd4	Ave	26588 3541105	127023 10045530	339017	677553	1668295	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dichlorobenzene	DCBd4	Ave	16892 1811192	69050 5319807	178313	367809	869586	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trimethylbenzene	DCBd4	Ave	28575 3614344	127733 10482692	349684	714863	1720173	1.00 100	4.00 300	10.0	20.0	50.0
Benzyl chloride	DCBd4	Ave	23742 2913452	98188 8453381	268861	576621	1360216	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Diethylbenzene	DCBd4	Ave	15039 2014620	74596 5884370	195148	391875	955923	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Diethylbenzene	DCBd4	Ave	16139 2095897	75443 6049978	204202	406038	989278	1.00 100	4.00 300	10.0	20.0	50.0
n-Butylbenzene	DCBd4	Ave	13512 1764097	65383 5105169	174106	341275	837227	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd4	Ave	16347 1793599	68330 5281324	180381	371912	863894	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Diethylbenzene	DCBd4	Ave	12689 1682020	59076 4970414	157063	319874	782692	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	3658 418601	13836 1196301	38504	81675	193025	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trichlorobenzene	DCBd4	Ave	10376 1266775	45356 3629114	121666	244937	592263	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd4	Ave	10116 1222858	44063 3470095	119256	240739	571094	1.00 100	4.00 300	10.0	20.0	50.0
2-Ethylhexyl acrylate	DCBd4	Ave	10190 1500834	46005 4407286	128160	296000	724284	1.00 100	4.00 300	10.0	20.0	50.0
Hexachlorobutadiene	DCBd4	Ave	3651 495158	17500 1428231	46356	89679	220705	1.00 100	4.00 300	10.0	20.0	50.0
Naphthalene	DCBd4	Ave	39990 4832433	174385 12136036	467687	980392	2268645	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd4	Ave	10048 1218841	44340 3430485	115828	239838	570282	1.00 100	4.00 300	10.0	20.0	50.0
2-Methylnaphthalene	DCBd4	Ave	19067	85666	236338	500921	1193457	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 Environment Testing, LLC Job No.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

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
			2557731	7013565				100	300			
Dibromofluoromethane (Surr)	FB	Ave	359850 350299	344789 350527	351315	344796	354047	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	77741 76372	75297 77956	77600	75858	77705	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBZd5	Ave	1265790 1294134	1210826 1343724	1246944	1251221	1294281	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	520939 516297	494424 536731	501943	506455	514652	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-531506/12	5L23X06.D
Level 2	IC 410-531506/13	5L23X07.D
Level 3	IC 410-531506/14	5L23X08.D
Level 4	IC 410-531506/15	5L23X09.D
Level 5	ICIS 410-531506/16	5L23X10.D
Level 6	IC 410-531506/17	5L23X11.D
Level 7	IC 410-531506/18	5L23X12.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	-28.9 -2.3	2.0	14.0	7.2	9.4	-1.4	50 30	30	30	30	30	30
Chloromethane	-12.5 -8.1	4.2	10.5	4.8	1.5	-0.4	50 30	30	30	30	30	30
Vinyl chloride	-21.9 -8.0	6.5	12.8	7.5	3.6	-0.6	50 30	30	30	30	30	30
1,3-Butadiene	-26.2 -9.6	8.3	16.0	8.1	5.9	-2.6	50 30	30	30	30	30	30
Bromomethane	-12.4 -6.1	-0.3	8.8	6.2	3.5	0.3	50 30	30	30	30	30	30
Chloroethane	-13.2 -6.9	2.8	9.7	6.5	2.2	-1.1	50 30	30	30	30	30	30
Dichlorofluoromethane	-13.9 -6.3	3.0	9.9	5.6	1.8	-0.2	50 30	30	30	30	30	30
n-Pentane	-8.1 -14.0	9.2	-0.8	14.8	2.1	-3.3	50 30	30	30	30	30	30
Trichlorofluoromethane	-28.3 -1.8	2.1	11.4	7.2	8.4	1.0	50 30	30	30	30	30	30
Ethyl ether	-6.5 -9.7	3.0	1.9	12.4	-0.8	-0.3	50 30	30	30	30	30	30
Freon 123a	-15.6 -7.2	4.7	10.3	6.6	3.2	-2.0	50 30	30	30	30	30	30
Acrolein	0.6 3.5	-2.5	-2.8	6.2	-1.0	-4.1	50 30	30	30	30	30	30
1,1-Dichloroethene	-13.9 -0.2	6.8	4.6	7.0	-2.4	-1.9	50 30	30	30	30	30	30
Acetone	-16.0 8.8	0.3	2.2	10.5	1.9	-7.7	50 30	30	30	30	30	30
Freon 113	-19.6 0.6	10.1	3.9	6.7	1.6	-3.4	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

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
2-Propanol	9.0 -9.2	1.6	2.2	3.1	-7.0	0.4	50 30	30	30	30	30	30
Methyl iodide	-11.8 -0.3	5.7	1.6	7.2	-2.3	0.0	50 30	30	30	30	30	30
Carbon disulfide	-12.8 +++++	4.3	3.5	6.6	-3.9	2.2	50	30	30	30	30	30
Methyl acetate	-7.5 3.1	-3.9	-5.5	11.3	-0.2	2.7	50 30	30	30	30	30	30
Allyl chloride	9.1 -2.1	-0.8	-1.6	3.1	-5.8	-1.9	50 30	30	30	30	30	30
Methylene Chloride	6.5 -4.1	2.7	-0.5	4.0	-5.5	-3.0	50 30	30	30	30	30	30
t-Butyl alcohol	3.3 -6.6	-0.3	4.1	7.1	-4.6	-3.1	50 30	30	30	30	30	30
Acrylonitrile	-7.5 -6.3	2.6	4.4	9.1	-4.7	2.4	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-10.4 -1.8	7.1	1.9	7.3	-2.8	-1.4	50 30	30	30	30	30	30
Methyl tert-butyl ether	-1.6 -6.6	3.4	1.5	7.5	-3.2	-1.0	50 30	30	30	30	30	30
n-Hexane	-18.0 -3.9	9.9	4.1	4.5	3.1	0.3	50 30	30	30	30	30	30
1,1-Dichloroethane	-13.1 -1.4	4.1	3.1	8.6	-2.1	0.7	50 30	30	30	30	30	30
Isopropyl ether	-3.7 -2.5	1.2	0.6	6.8	-2.9	0.5	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-13.1 -1.9	7.0	2.7	8.8	-1.8	-1.7	50 30	30	30	30	30	30
Ethyl t-butyl ether	-9.0 -1.8	0.8	1.4	8.3	-2.3	2.6	50 30	30	30	30	30	30
2-Butanone (MEK)	18.6 -3.4	-10.9	-2.5	1.9	-6.0	2.3	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-7.1 -2.9	5.2	1.5	7.3	-3.3	-0.6	50 30	30	30	30	30	30
2,2-Dichloropropane	-13.3 -0.1	7.3	3.1	6.9	-2.9	-1.0	50 30	30	30	30	30	30
Propionitrile	-9.7 7.3	-1.5	0.7	6.9	-0.7	-3.0	50 30	30	30	30	30	30
Methyl acrylate	3.3 -3.0	-2.6	-3.0	6.3	-3.5	2.5	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

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	-0.4 -3.3	-1.4	0.9	6.9	-4.3	1.6	50 30	30	30	30	30	30
Bromochloromethane	-7.0 -4.0	4.9	2.2	8.5	-3.9	-0.7	50 30	30	30	30	30	30
Tetrahydrofuran	-4.6 7.6	-1.2	-2.0	8.7	-3.4	-5.1	50 30	30	30	30	30	30
Chloroform	-5.9 -2.6	3.8	0.8	7.6	-3.1	-0.5	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-14.0 0.7	5.6	3.2	7.0	-1.5	-1.0	50 30	30	30	30	30	30
Cyclohexane	-13.8 0.1	7.8	2.2	5.6	0.7	-2.7	50 30	30	30	30	30	30
Carbon tetrachloride	-19.0 4.1	2.5	3.6	7.8	0.0	1.1	50 30	30	30	30	30	30
1,1-Dichloropropene	-16.7 1.2	5.5	3.7	7.3	-1.2	0.2	50 30	30	30	30	30	30
Isobutyl alcohol	19.1 -3.6	-1.7	0.2	3.6	-10.2	-7.5	50 30	30	30	30	30	30
Benzene	-7.9 1.1	3.1	0.3	6.3	-3.3	0.4	50 30	30	30	30	30	30
1,2-Dichloroethane	-5.7 -2.6	3.1	1.3	8.0	-5.2	1.0	50 30	30	30	30	30	30
t-Amyl methyl ether	-5.8 -0.6	-0.9	-0.4	7.6	-2.0	2.2	50 30	30	30	30	30	30
n-Heptane	-1.4 -5.0	9.7	2.3	-3.4	-3.0	0.9	50 30	30	30	30	30	30
n-Butanol	-7.4 3.7	-5.4	4.1	5.8	-2.6	1.8	50 30	30	30	30	30	30
Trichloroethene	-12.4 3.4	2.4	1.4	7.3	-2.5	0.4	50 30	30	30	30	30	30
Ethyl acrylate	-14.3 -2.9	5.6	1.4	4.2	6.0	0.0	50 30	30	30	30	30	30
Methylcyclohexane	-16.4 -1.0	6.9	4.2	3.7	2.0	0.7	50 30	30	30	30	30	30
1,2-Dichloropropane	-9.5 2.1	1.8	-0.8	6.6	-2.4	2.3	50 30	30	30	30	30	30
t-Amyl ethyl ether	-12.3 3.8	-2.7	-0.7	8.0	-0.6	4.5	50 30	30	30	30	30	30
1,4-Dioxane	-5.9 0.4	-16.6	10.5	8.0	3.2	-4.7	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

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
Dibromomethane	-9.3 -0.3	3.2	0.8	7.1	-3.1	1.7	50 30	30	30	30	30	30
Methyl methacrylate	-11.6 3.2	-3.5	0.4	9.6	-1.6	3.5	50 30	30	30	30	30	30
Bromodichloromethane	-15.0 7.5	-1.8	-2.6	7.0	-0.3	5.2	50 30	30	30	30	30	30
2-Nitropropane	-3.0 11.6	-7.3	-3.6	8.0	-2.3	-3.4	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-9.4 5.0	-4.6	-3.2	11.5	-1.6	2.4	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-16.2 10.0	-5.8	-3.0	7.9	0.0	7.2	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-7.7 -1.3	-7.1	1.5	6.6	-0.2	8.2	50 30	30	30	30	30	30
Toluene	-9.4 -0.2	2.8	1.2	6.5	-1.9	1.0	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-8.7 5.9	-6.1	-2.7	6.7	-1.2	5.9	50 30	30	30	30	30	30
Ethyl methacrylate	-9.2 -2.1	-1.3	-0.2	9.9	-0.9	3.9	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-9.1 -1.1	-0.4	1.7	8.2	-1.6	2.4	50 30	30	30	30	30	30
Tetrachloroethene	-14.3 -1.2	2.6	5.1	7.6	-0.2	0.4	50 30	30	30	30	30	30
1,3-Dichloropropane	-5.2 0.7	-2.3	0.7	6.9	-3.1	2.4	50 30	30	30	30	30	30
2-Hexanone	-5.3 -5.5	-5.5	3.1	7.1	-0.6	6.8	50 30	30	30	30	30	30
Dibromochloromethane	-15.0 6.5	-4.8	-2.7	7.4	0.5	8.0	50 30	30	30	30	30	30
Ethylene Dibromide	-2.9 -0.5	-4.9	-0.5	8.0	-2.6	3.4	50 30	30	30	30	30	30
Chlorobenzene	-9.5 -0.4	0.3	2.0	7.5	-1.8	1.8	50 30	30	30	30	30	30
1-Chlorohexane	-14.0 -5.9	7.5	6.9	8.6	-1.3	-1.7	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-13.0 0.6	-1.8	1.8	7.1	0.6	4.7	50 30	30	30	30	30	30
Ethylbenzene	-12.5 -3.6	2.9	3.6	8.1	-0.7	2.3	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 Environment Testing, LLC Job No.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

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	-10.3 -3.8	2.1	4.4	8.1	-1.8	1.2	50 30	30	30	30	30	30
n-Butyl acrylate	-7.7 -5.7	-0.7	-1.9	11.1	0.7	4.3	50 30	30	30	30	30	30
o-Xylene	-12.2 -4.2	2.6	3.1	9.3	-0.8	2.2	50 30	30	30	30	30	30
Styrene	-13.0 -1.3	0.6	2.4	9.1	-0.4	2.6	50 30	30	30	30	30	30
Bromoform	-7.4 3.7	-5.7	-2.3	6.0	-1.1	6.8	50 30	30	30	30	30	30
Isopropylbenzene	-15.2 -4.6	1.1	6.8	8.5	0.5	2.9	50 30	30	30	30	30	30
Cyclohexanone	-6.1 -0.6	-3.4	0.1	10.4	1.1	-1.6	50 30	30	30	30	30	30
Bromobenzene	-8.6 0.6	-1.0	-0.5	8.4	-1.8	3.0	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-11.4 -2.4	-1.7	2.0	8.8	-0.3	5.1	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-10.7 -0.8	-5.4	1.8	9.8	-0.3	5.6	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-6.2 -5.8	-2.8	3.8	9.4	-1.8	3.3	50 30	30	30	30	30	30
N-Propylbenzene	-15.3 -10.2	2.3	6.2	9.4	1.8	5.6	50 30	30	30	30	30	30
2-Chlorotoluene	-15.6 1.5	1.7	3.5	7.2	-1.3	3.0	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-21.3 2.3	-2.2	4.3	7.0	2.1	7.9	50 30	30	30	30	30	30
4-Chlorotoluene	-15.2 1.7	0.7	2.1	8.4	-0.9	3.2	50 30	30	30	30	30	30
tert-Butylbenzene	-23.2 8.2	-7.5	3.1	5.8	3.5	10.1	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-16.1 0.5	-1.8	3.7	7.0	0.7	6.0	50 30	30	30	30	30	30
sec-Butylbenzene	-21.9 -1.1	-1.0	5.5	6.7	3.0	9.0	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-10.9 -0.4	-1.3	2.7	7.5	-0.8	3.3	50 30	30	30	30	30	30
p-Isopropyltoluene	-20.5 0.6	-0.1	4.7	5.2	1.8	8.4	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1 Analy Batch No.: 531506

SDG No.:

Instrument ID: 26285 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2024 20:11 Calibration End Date: 07/23/2024 22:12 Calibration ID: 64083

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	-6.6 -1.6	0.4	1.8	5.5	-1.9	2.5	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-17.5 1.3	-3.1	4.2	7.1	1.3	6.8	50 30	30	30	30	30	30
Benzyl chloride	-13.9 2.6	-6.4	0.6	8.5	0.6	8.1	50 30	30	30	30	30	30
1,3-Diethylbenzene	-22.0 2.2	1.7	4.5	5.5	1.2	7.0	50 30	30	30	30	30	30
1,4-Diethylbenzene	-19.3 1.2	-0.8	5.4	5.4	0.9	7.2	50 30	30	30	30	30	30
n-Butylbenzene	-20.3 0.8	1.4	6.1	4.5	0.8	6.6	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-9.1 -1.7	-0.1	3.5	7.3	-2.0	2.1	50 30	30	30	30	30	30
1,2-Diethylbenzene	-19.9 5.0	-1.9	2.4	4.8	0.8	8.7	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-7.7 1.1	-8.2	0.3	7.0	-0.6	8.1	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-14.3 0.3	-1.5	3.7	5.0	-0.2	7.1	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-14.0 -1.2	-1.5	4.7	6.3	-0.9	6.5	50 30	30	30	30	30	30
2-Ethylhexyl acrylate	-25.5 7.8	-11.6	-3.3	12.3	8.0	12.3	50 30	30	30	30	30	30
Hexachlorobutadiene	-20.3 4.4	0.5	4.6	1.7	-1.6	10.7	50 30	30	30	30	30	30
Naphthalene	-12.9 -11.5	-0.1	5.2	10.8	0.8	7.7	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-13.9 -1.6	-0.1	2.5	6.6	-0.3	6.9	50 30	30	30	30	30	30
2-Methylnaphthalene	-19.6 -1.0	-5.0	2.9	9.6	2.7	10.4	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	1.3 -2.4	1.6	1.2	0.0	-0.1	-1.5	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-0.2 -1.0	1.2	1.9	0.3	-0.1	-2.1	50 30	30	30	30	30	30
Toluene-d8 (Surr)	0.3 -1.0	0.3	0.6	0.1	0.4	-0.7	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	2.4 -2.0	1.5	0.4	0.5	-1.0	-1.8	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X06.D
Lims ID: IC v1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jul-2024 20:11:30 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120132-012
Misc. Info.: IC V1
Operator ID: gaw91131 Instrument ID: 26285
Sublist: chrom-MSVoa_26285a*sub89

Method: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 24-Jul-2024 14:20:28 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1614

First Level Reviewer: K4WN Date: 23-Jul-2024 22:47:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.512	1.519	-0.007	32	8965	1.00	0.7112	
4 Chloromethane	50	1.671	1.665	0.006	98	14306	1.00	0.8754	M
5 Vinyl chloride	62	1.756	1.750	0.006	96	10335	1.00	0.7810	
6 Butadiene	39	1.781	1.775	0.006	97	11361	1.00	0.7384	M
8 Bromomethane	94	2.024	2.012	0.012	93	7708	1.00	0.8758	
9 Chloroethane	64	2.037	2.037	0.000	98	6430	1.00	0.8682	
10 Dichlorofluoromethane	67	2.262	2.256	0.006	96	20191	1.00	0.8611	M
12 Pentane	43	2.280	2.275	0.005	97	9755	1.00	0.9188	
11 Trichlorofluoromethane	101	2.311	2.305	0.006	94	10849	1.00	0.7169	
14 Ethyl ether	59	2.433	2.427	0.006	95	5233	1.00	0.9346	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.524	2.518	0.006	89	10170	1.00	0.8438	
16 Acrolein	56	2.567	2.555	0.012	99	33090	10.0	10.1	M
17 1,1-Dichloroethene	96	2.695	2.677	0.018	92	6097	1.00	0.8609	
18 Acetone	58	2.689	2.683	0.006	98	2476	2.00	1.68	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.726	2.713	0.013	70	6582	1.00	0.8044	
21 Isopropyl alcohol	45	2.841	2.823	0.018	32	7418	5.00	5.45	M
20 Iodomethane	142	2.841	2.835	0.006	99	12561	1.00	0.8822	
22 Carbon disulfide	76	2.890	2.951	-0.061	98	20680	1.00	0.8725	M
24 Methyl acetate	43	3.012	2.994	0.018	70	10955	1.00	0.9251	M
25 3-Chloro-1-propene	41	3.018	3.012	0.006	86	17200	1.00	1.09	M
26 Methylene Chloride	84	3.177	3.177	0.000	16	9842	1.00	1.06	M
* 27 t-Butyl alcohol-d10 (IS)	65	3.183	3.189	-0.006	98	468512	250.0	250.0	
29 2-Methyl-2-propanol	59	3.280	3.280	0.000	33	12894	5.00	5.17	
30 Acrylonitrile	53	3.408	3.402	0.006	97	14373	2.50	2.31	
31 trans-1,2-Dichloroethene	96	3.469	3.463	0.006	94	7130	1.00	0.8962	
32 Methyl tert-butyl ether	73	3.469	3.476	-0.007	91	26956	1.00	0.9842	
33 Hexane	57	3.823	3.817	0.006	93	8593	1.00	0.8201	
34 1,1-Dichloroethane	63	4.036	4.018	0.018	34	13844	1.00	0.8689	
36 Isopropyl ether	45	4.097	4.091	0.006	95	29547	1.00	0.9628	
37 2-Chloro-1,3-butadiene	53	4.134	4.122	0.012	93	11905	1.00	0.8693	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	4.646	4.652	-0.006	98	25668	1.00	0.9097	
39 2-Butanone (MEK)	43	4.871	4.865	0.006	68	20505	2.00	2.37	
40 cis-1,2-Dichloroethene	96	4.884	4.884	0.000	83	8597	1.00	0.9285	
41 2,2-Dichloropropane	77	4.920	4.902	0.018	49	11360	1.00	0.8669	
43 Propionitrile	54	4.975	4.951	0.024	92	10826	5.00	4.52	
44 Methyl acrylate	55	5.006	5.006	0.000	99	15174	1.00	1.03	
45 Methacrylonitrile	67	5.182	5.170	0.012	94	13894	2.50	2.49	M
46 Chlorobromomethane	128	5.237	5.225	0.012	62	4091	1.00	0.9298	
47 Tetrahydrofuran	71	5.256	5.243	0.013	91	10020	5.00	4.77	
48 Chloroform	83	5.408	5.402	0.006	94	14539	1.00	0.9407	
$ 49 Dibromofluoromethane (Surr)	113	5.627	5.628	-0.001	93	359850	50.0	50.7	
50 1,1,1-Trichloroethane	97	5.652	5.634	0.018	53	11135	1.00	0.8603	
51 Cyclohexane	56	5.743	5.737	0.006	94	13429	1.00	0.8617	
52 Carbon tetrachloride	117	5.853	5.853	0.000	71	8705	1.00	0.8105	
53 1,1-Dichloropropene	75	5.865	5.859	0.006	91	9928	1.00	0.8329	
55 Isobutyl alcohol	41	6.109	6.085	0.024	35	11735	12.5	14.9	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.103	6.097	0.006	80	77741	50.0	49.9	
57 Benzene	78	6.139	6.134	0.005	96	31993	1.00	0.9207	
S 54 1,2-Dichloroethene, Total	100				0			1.82	
58 1,2-Dichloroethane	62	6.219	6.213	0.006	95	11711	1.00	0.9426	
60 Tert-amyl methyl ether	73	6.371	6.359	0.012	95	24874	1.00	0.9422	
* 61 Fluorobenzene (IS)	96	6.572	6.572	0.000	98	1349937	50.0	50.0	
62 n-Heptane	43	6.615	6.609	0.006	71	10593	1.00	0.9859	
63 n-Butanol	56	7.023	7.030	-0.007	82	6042	12.5	11.6	
64 Trichloroethene	95	7.084	7.078	0.006	94	7700	1.00	0.8760	
66 Methylcyclohexane	83	7.408	7.395	0.013	92	11263	1.00	0.8357	
65 Ethyl acrylate	55	7.401	7.402	-0.001	81	10094	1.00	0.8566	
67 1,2-Dichloropropane	63	7.420	7.420	0.000	93	8461	1.00	0.9047	
68 2-ethoxy-2-methyl butane	87	7.462	7.475	-0.013	88	10653	1.00	0.8773	
69 1,4-Dioxane	88	7.542	7.536	0.006	31	224	12.5	11.8	
70 Dibromomethane	93	7.542	7.536	0.006	95	5337	1.00	0.9074	
71 Methyl methacrylate	69	7.572	7.560	0.012	92	6944	1.00	0.8841	M
74 Dichlorobromomethane	83	7.810	7.804	0.006	96	9370	1.00	0.8500	
75 2-Nitropropane	41	8.096	8.090	0.006	97	19323	5.00	4.85	
76 2-Chloroethyl vinyl ether	63	8.206	8.212	-0.006	89	6063	1.00	0.9056	M
77 cis-1,3-Dichloropropene	75	8.395	8.395	0.000	92	11636	1.00	0.8380	
78 4-Methyl-2-pentanone (MIBK)	43	8.615	8.609	0.006	99	30493	2.00	1.85	
$ 79 Toluene-d8 (Surr)	98	8.743	8.743	0.000	94	1265790	50.0	50.2	
80 Toluene	92	8.834	8.828	0.006	99	18018	1.00	0.9056	
84 trans-1,3-Dichloropropene	75	9.163	9.163	0.000	95	11209	1.00	0.9134	
85 Ethyl methacrylate	69	9.273	9.267	0.006	90	12099	1.00	0.9077	
86 1,1,2-Trichloroethane	97	9.407	9.401	0.006	91	6647	1.00	0.9088	
87 Tetrachloroethene	166	9.492	9.493	-0.001	94	7097	1.00	0.8572	
88 1,3-Dichloropropane	76	9.584	9.584	0.000	95	11754	1.00	0.9484	
90 2-Hexanone	43	9.675	9.676	-0.001	98	21671	2.00	1.89	
91 Chlorodibromomethane	129	9.822	9.828	-0.006	93	6832	1.00	0.8505	
96 Ethylene Dibromide	107	9.938	9.938	0.000	94	7711	1.00	0.9706	
S 97 1,3-Dichloropropene, Total	100				0			1.75	
* 98 Chlorobenzene-d5 (IS)	117	10.437	10.438	-0.001	88	960153	50.0	50.0	
99 Chlorobenzene	112	10.468	10.468	0.000	96	19633	1.00	0.9054	
100 1-Chlorohexane	91	10.480	10.474	0.006	94	8915	1.00	0.8599	
128 1,1,1,2-Tetrachloroethane	131	10.565	10.566	-0.001	92	6986	1.00	0.8699	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
129 Ethylbenzene	91	10.578	10.578	0.000	99	35360	1.00	0.8753	
130 m-Xylene & p-Xylene	106	10.706	10.706	0.000	99	27089	2.00	1.79	
131 n-Butyl acrylate	55	11.041	11.041	0.000	94	19815	1.00	0.9227	
132 o-Xylene	106	11.065	11.059	0.006	94	13449	1.00	0.8778	
133 Styrene	104	11.084	11.078	0.006	95	21213	1.00	0.8702	
135 Bromoform	173	11.230	11.236	-0.006	95	5911	1.00	0.9262	
S 134 Xylenes, Total	106				0			2.67	
136 Isopropylbenzene	105	11.395	11.395	0.000	96	29924	1.00	0.8475	
137 Cyclohexanone	55	11.456	11.456	0.000	95	24801	50.0	47.0	
$ 140 4-Bromofluorobenzene (Surr)	95	11.541	11.535	0.006	91	520939	50.0	51.2	
143 Bromobenzene	156	11.651	11.651	0.000	95	8921	1.00	0.9143	
144 1,1,2,2-Tetrachloroethane	83	11.663	11.663	0.000	94	12940	1.00	0.8858	
145 trans-1,4-Dichloro-2-butene	53	11.693	11.687	0.006	86	10078	2.50	2.23	
146 1,2,3-Trichloropropane	110	11.705	11.700	0.005	82	3664	1.00	0.9381	
147 N-Propylbenzene	91	11.748	11.748	0.000	99	40674	1.00	0.8474	
148 2-Chlorotoluene	126	11.815	11.815	0.000	96	7970	1.00	0.8437	
149 1,3,5-Trimethylbenzene	105	11.894	11.895	-0.001	94	25768	1.00	0.7866	
150 4-Chlorotoluene	126	11.919	11.913	0.006	98	7812	1.00	0.8476	
152 tert-Butylbenzene	134	12.144	12.145	-0.001	92	4321	1.00	0.7684	
154 1,2,4-Trimethylbenzene	105	12.193	12.193	0.000	97	28497	1.00	0.8393	
155 sec-Butylbenzene	105	12.321	12.321	0.000	95	30598	1.00	0.7807	
156 1,3-Dichlorobenzene	146	12.413	12.413	0.000	98	15852	1.00	0.8907	
157 4-Isopropyltoluene	119	12.437	12.437	0.000	97	26588	1.00	0.7951	
* 158 1,4-Dichlorobenzene-d4	152	12.474	12.474	0.000	96	557861	50.0	50.0	
159 1,4-Dichlorobenzene	146	12.492	12.492	0.000	95	16892	1.00	0.9336	
160 1,2,3-Trimethylbenzene	105	12.510	12.510	0.000	99	28575	1.00	0.8246	
164 Benzyl chloride	91	12.571	12.571	0.000	99	23742	1.00	0.8605	
165 1,3-Diethylbenzene	119	12.650	12.651	-0.001	94	15039	1.00	0.7799	
166 p-Diethylbenzene	119	12.724	12.724	0.000	92	16139	1.00	0.8067	
167 n-Butylbenzene	92	12.742	12.742	0.000	98	13512	1.00	0.7973	
168 1,2-Dichlorobenzene	146	12.760	12.760	0.000	97	16347	1.00	0.9088	
169 o-diethylbenzene	119	12.797	12.797	0.000	96	12689	1.00	0.8011	
170 1,2-Dibromo-3-Chloropropane	75	13.321	13.321	0.000	76	3658	1.00	0.9231	
171 1,3,5-Trichlorobenzene	180	13.461	13.455	0.006	96	10376	1.00	0.8567	
173 1,2,4-Trichlorobenzene	180	13.888	13.888	0.000	93	10116	1.00	0.8604	
175 2-Ethylhexyl acrylate	55	13.986	13.980	0.006	82	10190	1.00	0.7447	
174 Hexachlorobutadiene	225	13.986	13.986	0.000	66	3651	1.00	0.7975	
176 Naphthalene	128	14.071	14.071	0.000	97	39990	1.00	0.8709	
177 1,2,3-Trichlorobenzene	180	14.217	14.217	0.000	94	10048	1.00	0.8607	
178 2-Methylnaphthalene	142	14.815	14.815	0.000	92	19067	1.00	0.8040	
S 182 Total Diethylbenzene	1				0			2.39	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_4ppbEE_00594	Amount Added: 12.50	Units: mL	
MSV_Cent_ISSS_00029	Amount Added: 5.00	Units: uL	Run Reagent

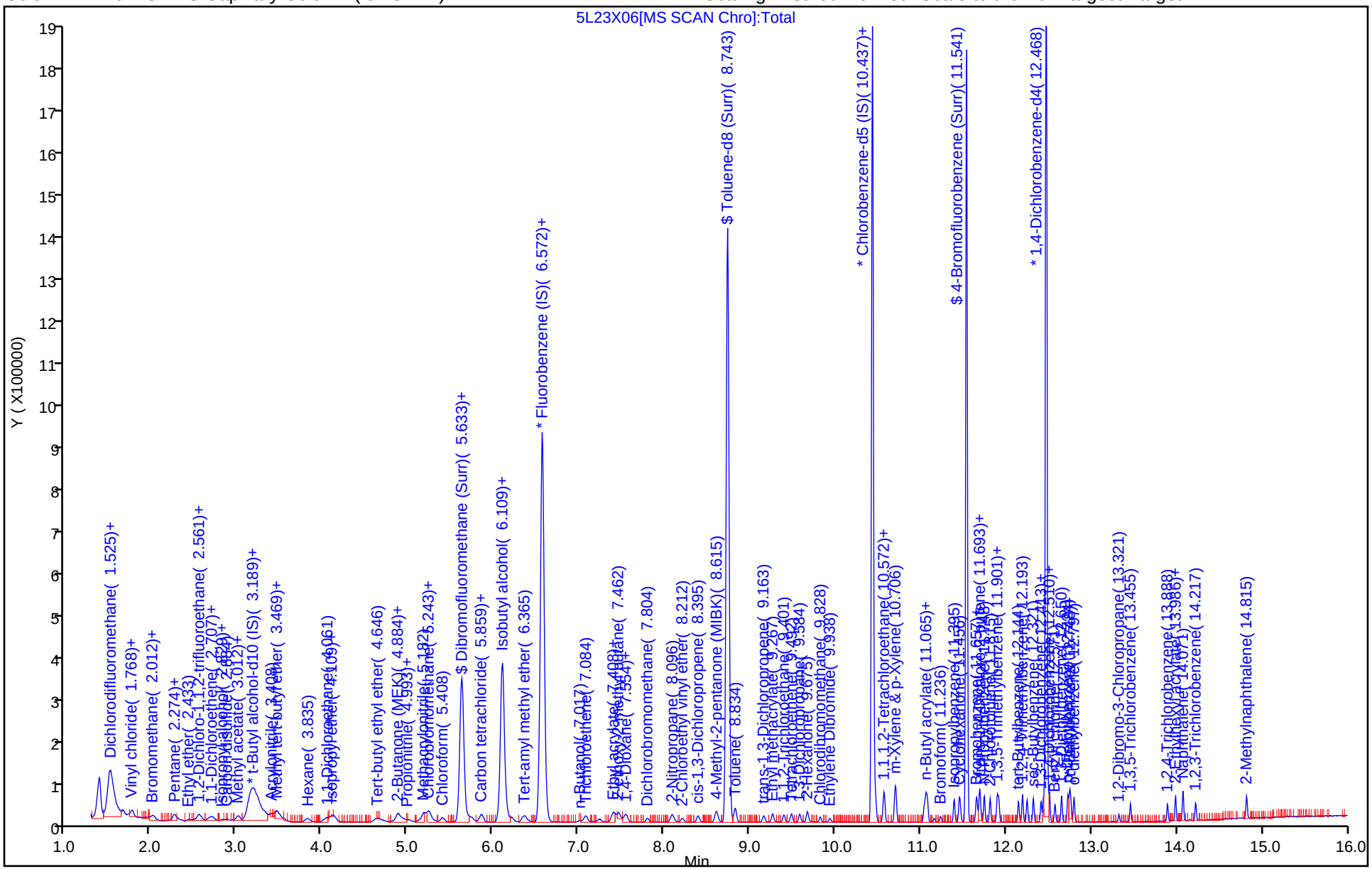
Report Date: 24-Jul-2024 14:20:29 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X06.D

Injection Date:	23-Jul-2024 20:11:30	Instrument ID:	26285	Operator ID:	gaw91131
Lims ID:	IC v1			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

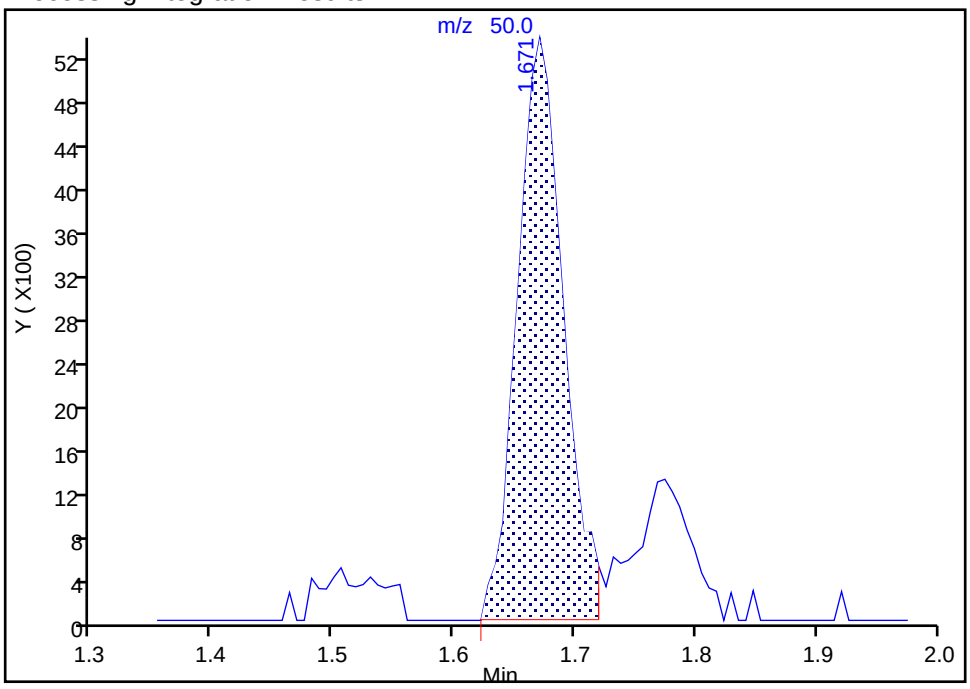
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X06.D
Injection Date: 23-Jul-2024 20:11:30 Instrument ID: 26285
Lims ID: IC v1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

4 Chloromethane, CAS: 74-87-3

Signal: 1

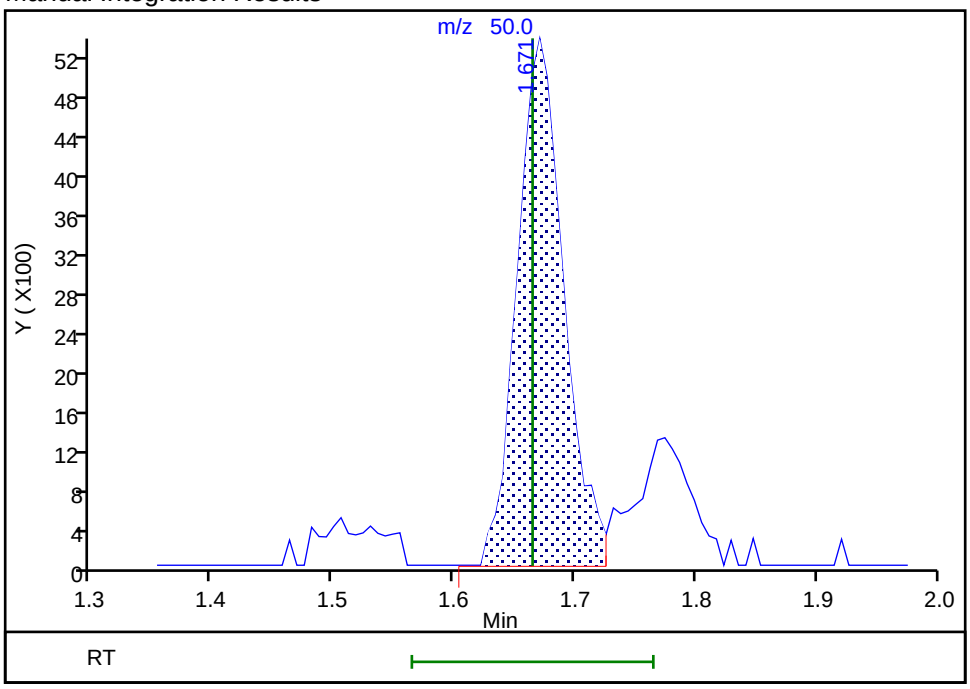
Processing Integration Results

RT: 1.67
Area: 14193
Amount: 0.869328
Amount Units: ug/l



Manual Integration Results

RT: 1.67
Area: 14306
Amount: 0.875384
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 10:41:25 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

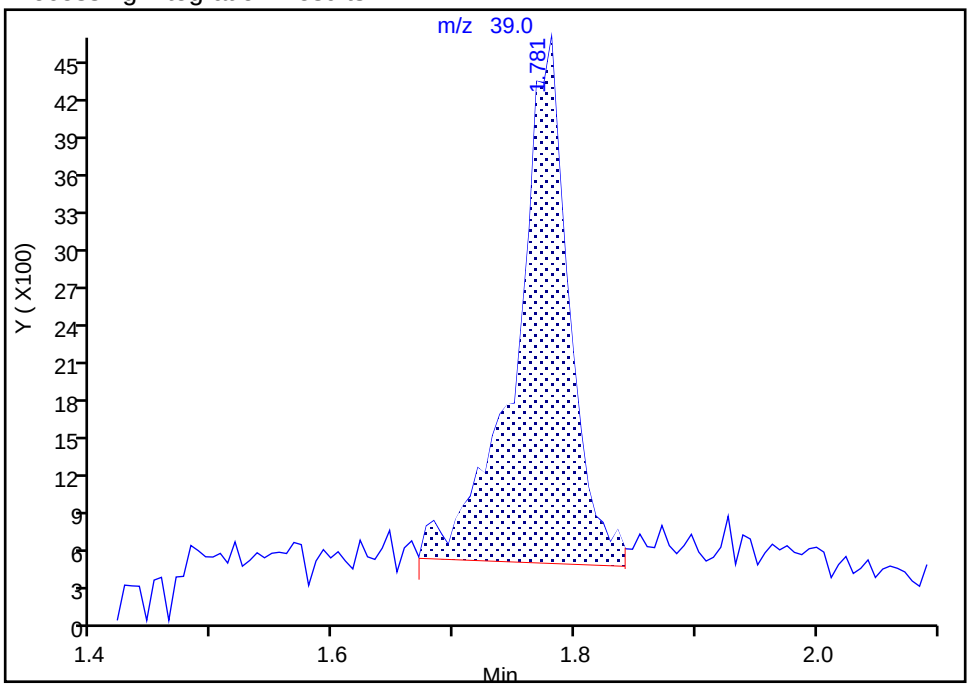
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X06.D
Injection Date: 23-Jul-2024 20:11:30 Instrument ID: 26285
Lims ID: IC v1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

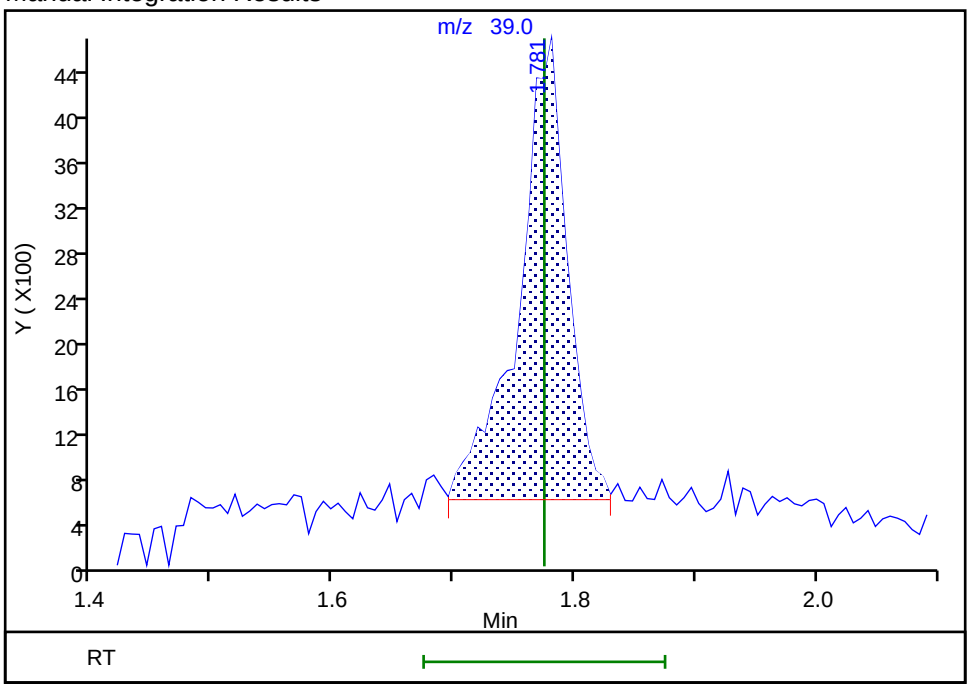
Processing Integration Results

RT: 1.78
Area: 12794
Amount: 0.820447
Amount Units: ug/l



Manual Integration Results

RT: 1.78
Area: 11361
Amount: 0.738441
Amount Units: ug/l



Reviewer: K4WN, 23-Jul-2024 22:47:44 -04:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

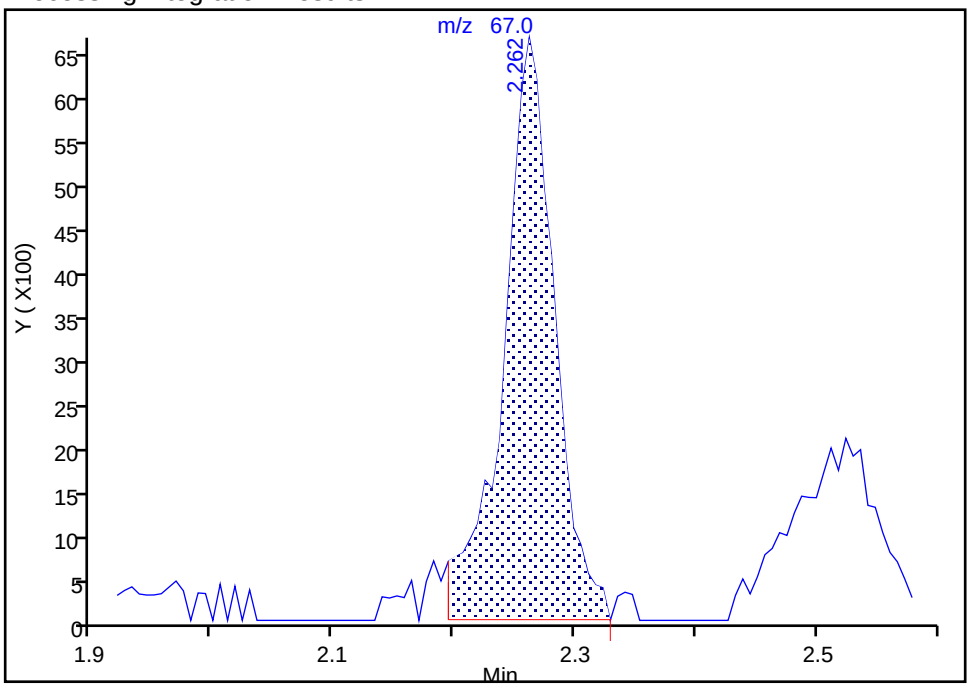
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X06.D
Injection Date: 23-Jul-2024 20:11:30 Instrument ID: 26285
Lims ID: IC v1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

10 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

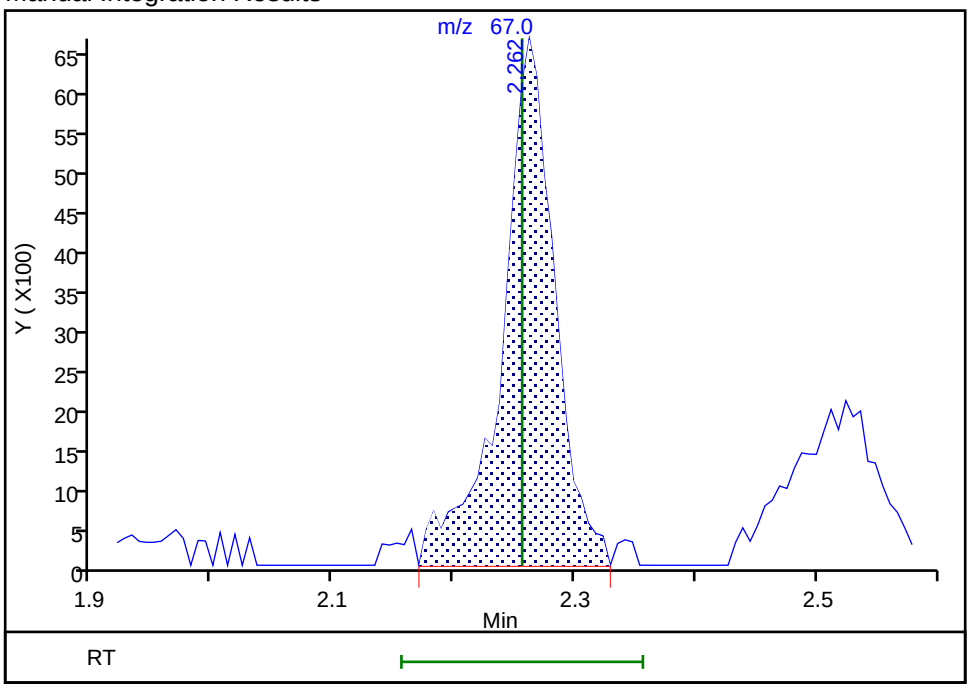
Processing Integration Results

RT: 2.26
Area: 19620
Amount: 0.839688
Amount Units: ug/l



Manual Integration Results

RT: 2.26
Area: 20191
Amount: 0.861120
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 10:41:45 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

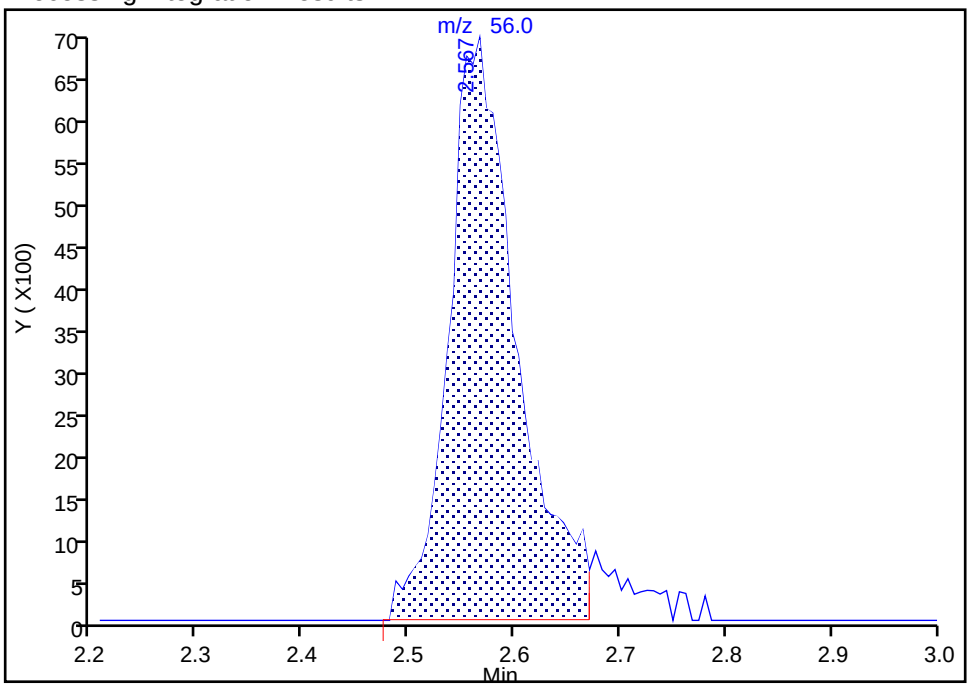
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X06.D
Injection Date: 23-Jul-2024 20:11:30 Instrument ID: 26285
Lims ID: IC v1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

16 Acrolein, CAS: 107-02-8

Signal: 1

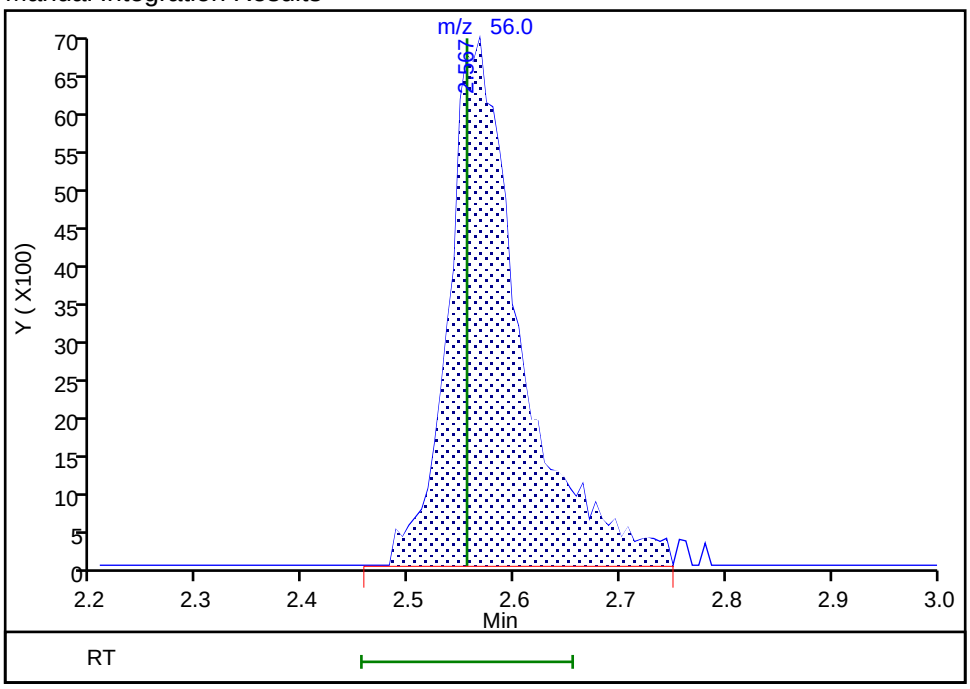
Processing Integration Results

RT: 2.57
Area: 31103
Amount: 9.562697
Amount Units: ug/l



Manual Integration Results

RT: 2.57
Area: 33090
Amount: 10.085775
Amount Units: ug/l



Reviewer: K4WN, 23-Jul-2024 22:47:54 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

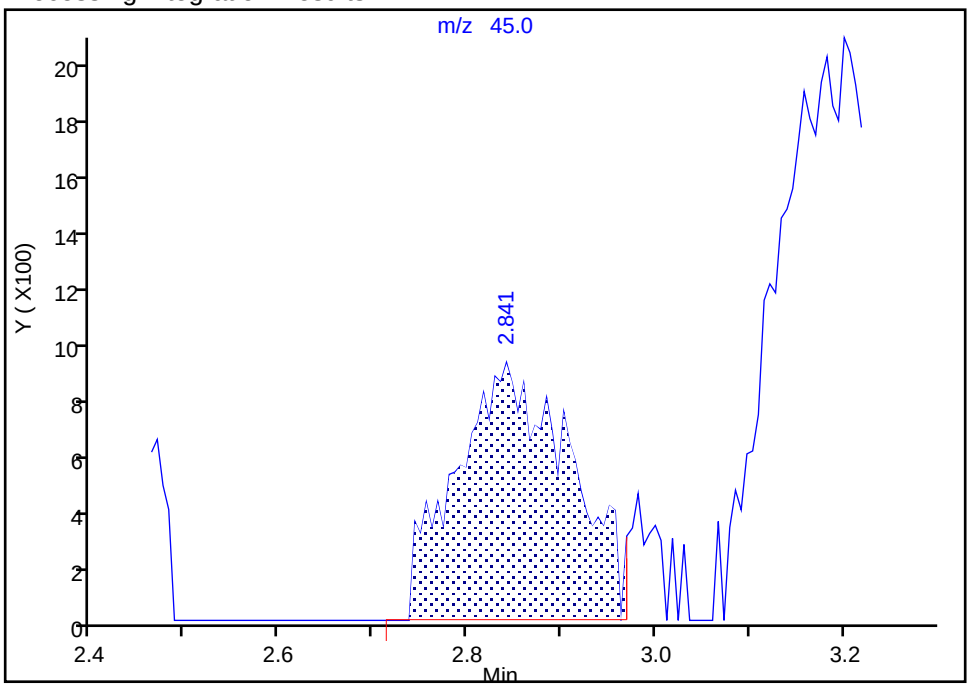
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X06.D
Injection Date: 23-Jul-2024 20:11:30 Instrument ID: 26285
Lims ID: IC v1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

21 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

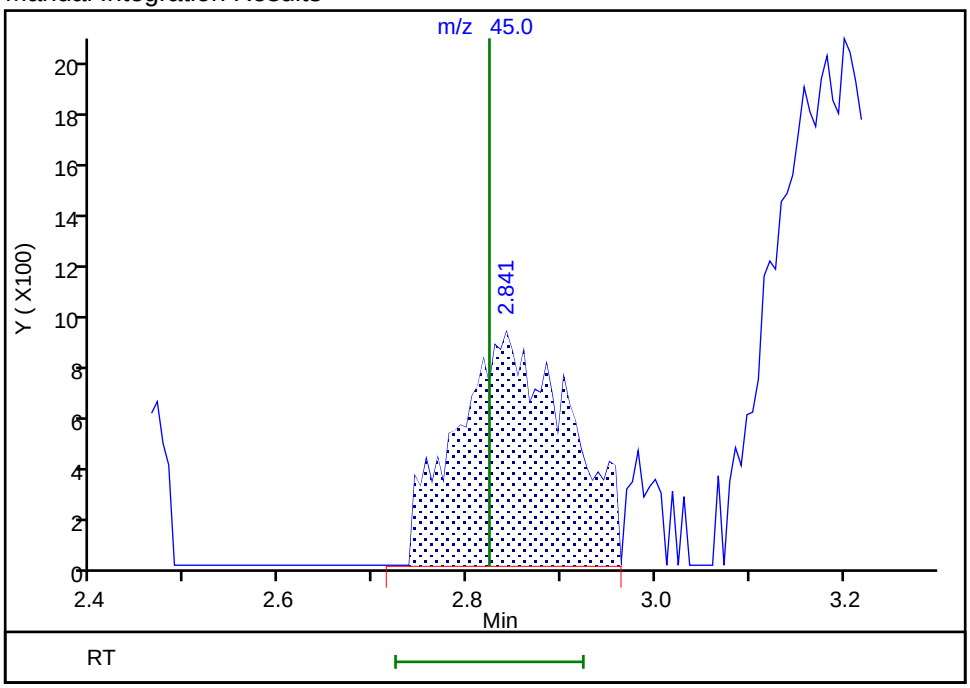
Processing Integration Results

RT: 2.84
Area: 7525
Amount: 5.518510
Amount Units: ug/l



Manual Integration Results

RT: 2.84
Area: 7418
Amount: 5.452265
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 10:42:11 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

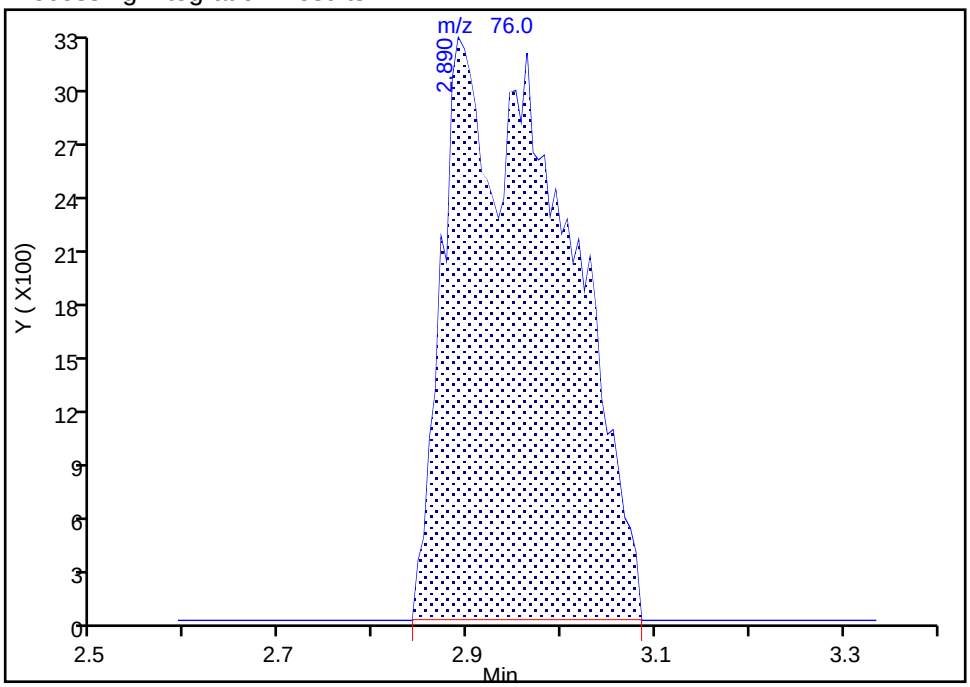
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X06.D
Injection Date: 23-Jul-2024 20:11:30 Instrument ID: 26285
Lims ID: IC v1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

22 Carbon disulfide, CAS: 75-15-0

Signal: 1

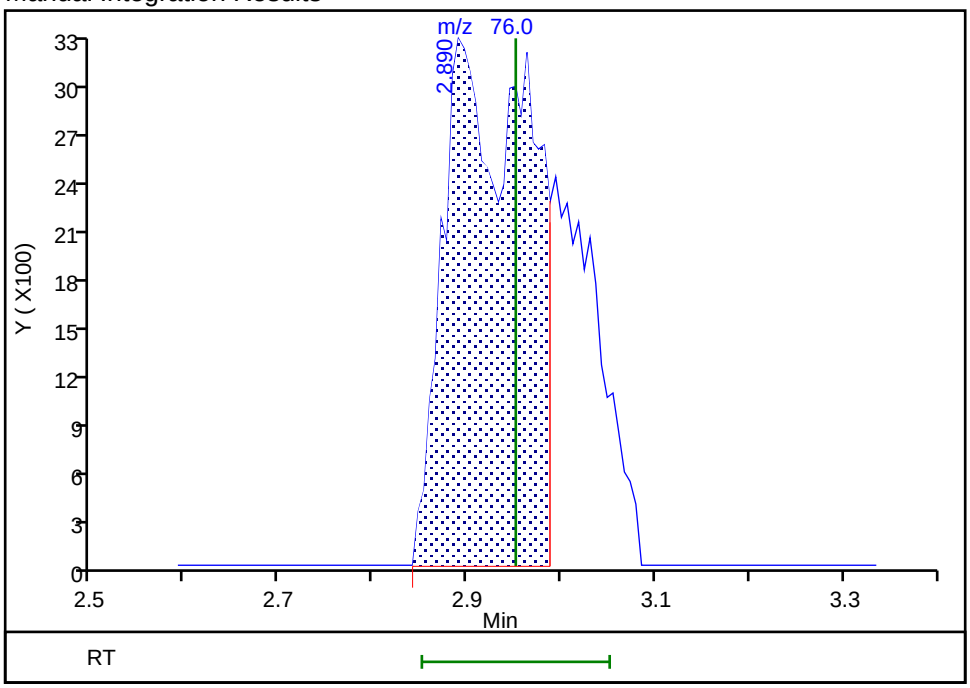
Processing Integration Results

RT: 2.89
Area: 28793
Amount: 0.961715
Amount Units: ug/l



Manual Integration Results

RT: 2.89
Area: 20680
Amount: 0.872453
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 10:47:36 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

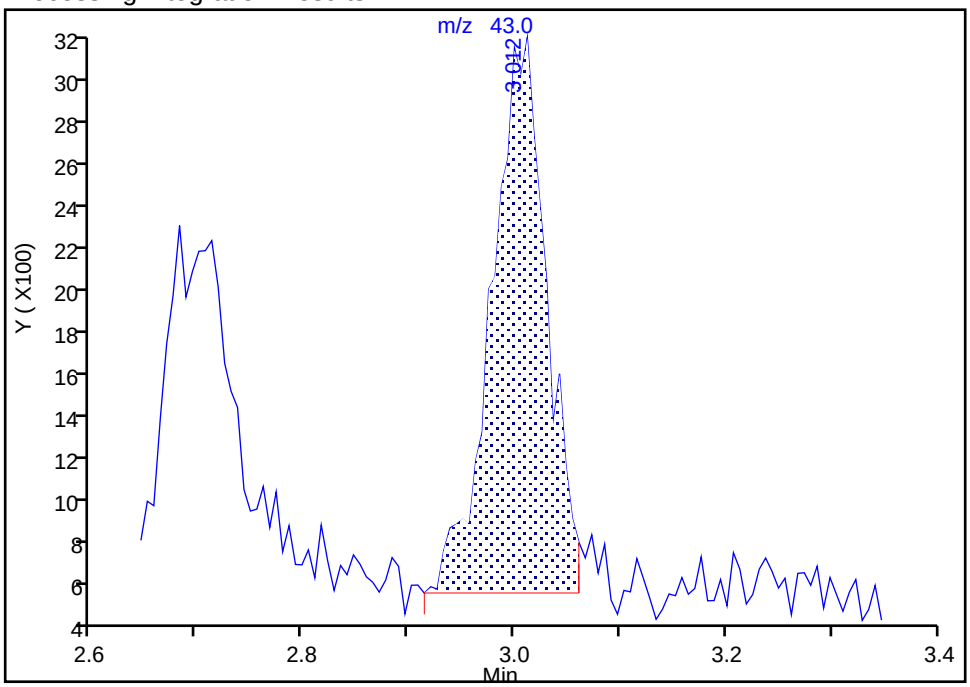
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X06.D
Injection Date: 23-Jul-2024 20:11:30 Instrument ID: 26285
Lims ID: IC v1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

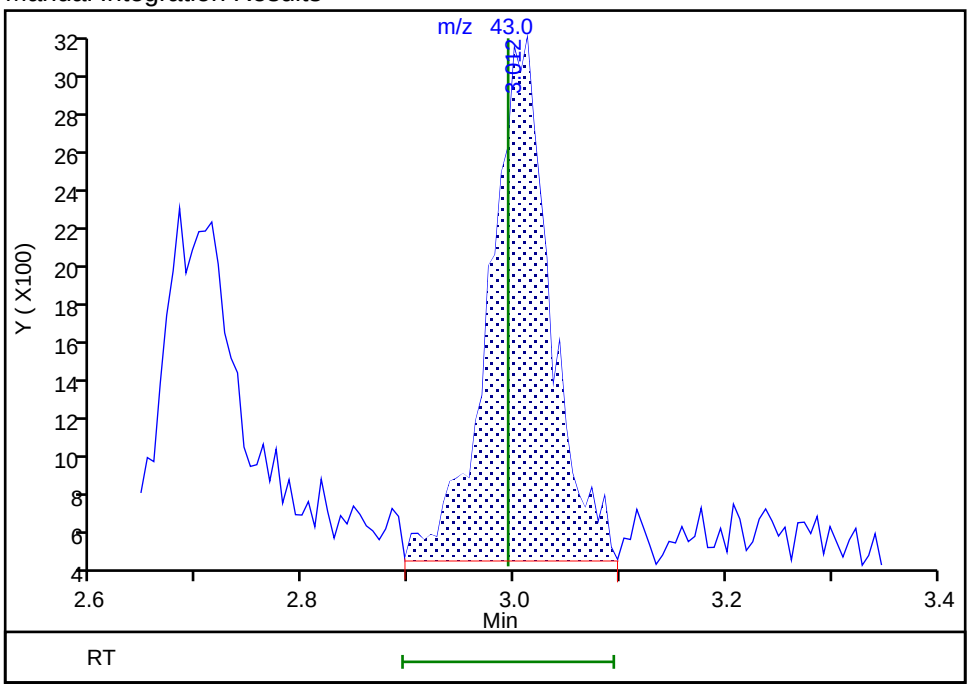
Processing Integration Results

RT: 3.01
Area: 9463
Amount: 0.813776
Amount Units: ug/l



Manual Integration Results

RT: 3.01
Area: 10955
Amount: 0.925124
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 10:42:42 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

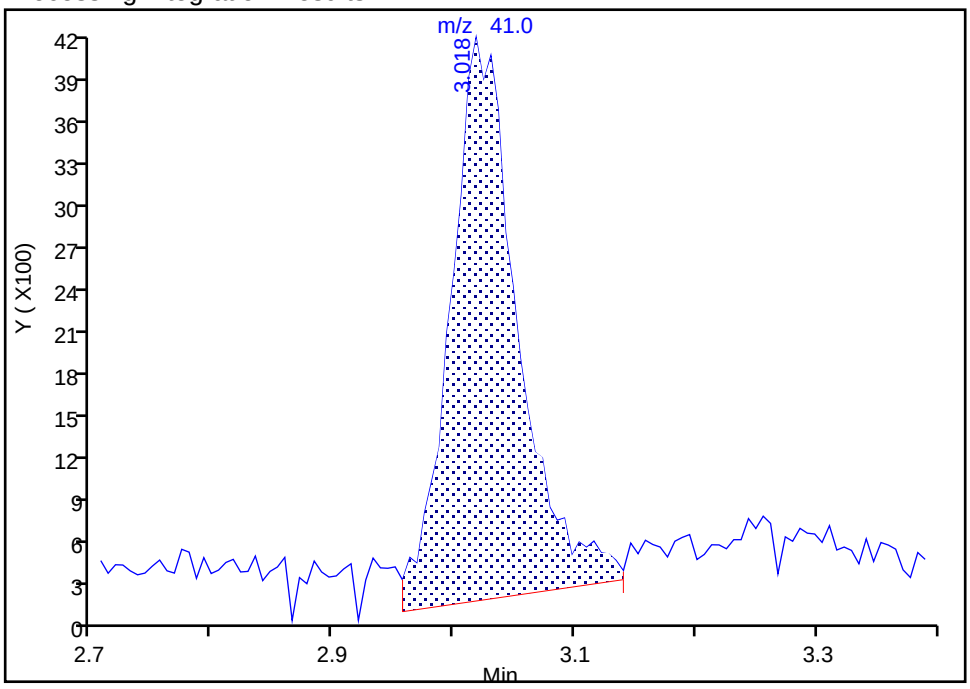
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X06.D
Injection Date: 23-Jul-2024 20:11:30 Instrument ID: 26285
Lims ID: IC v1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

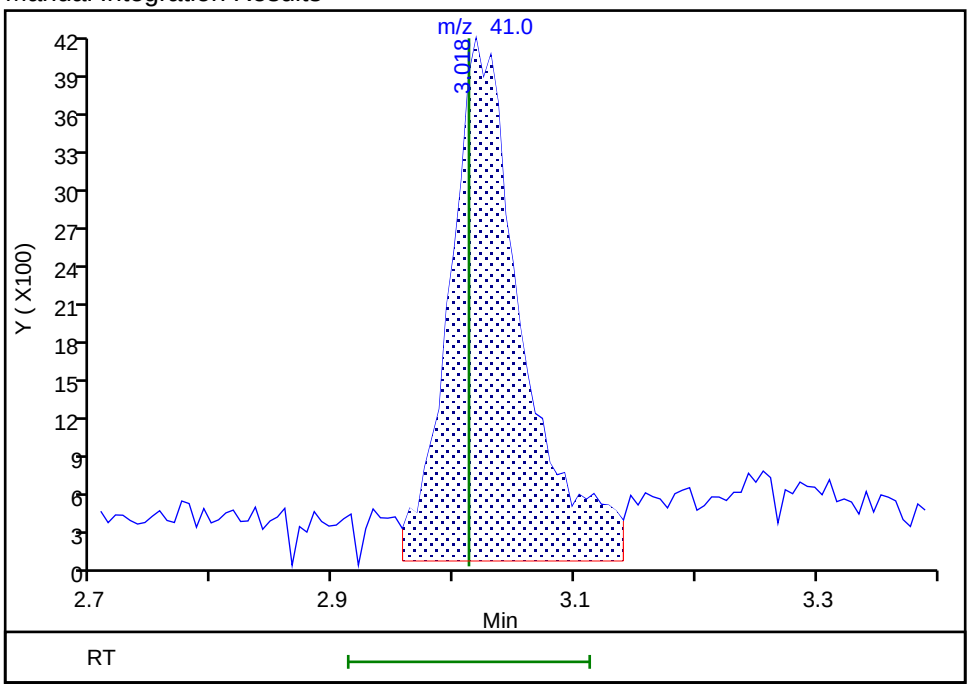
Processing Integration Results

RT: 3.02
Area: 15493
Amount: 0.998377
Amount Units: ug/l



Manual Integration Results

RT: 3.02
Area: 17200
Amount: 1.091229
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 10:43:03 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

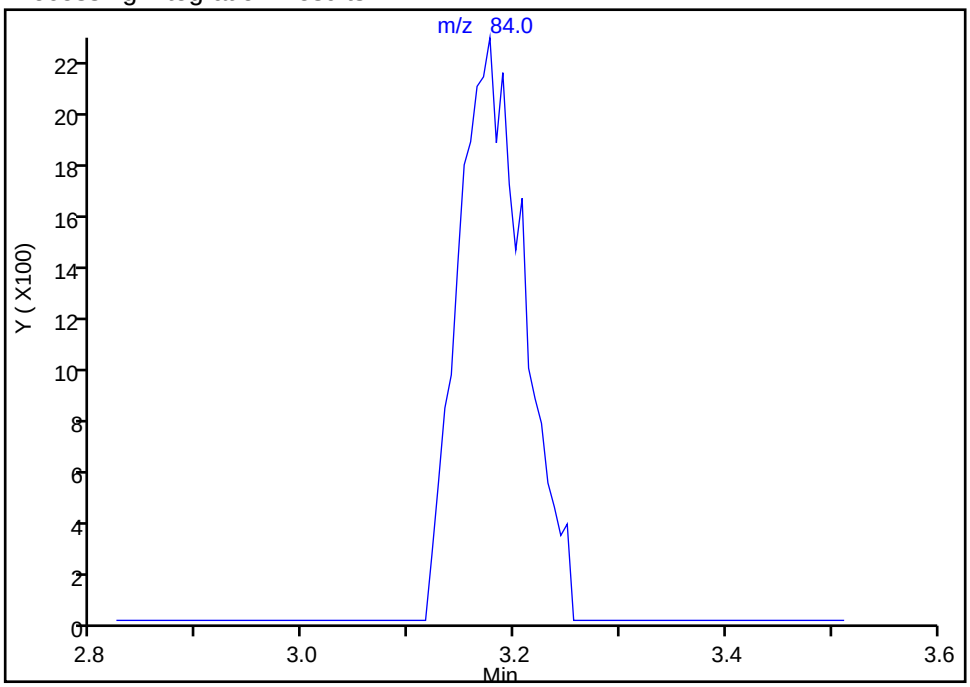
Data File:	\\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X06.D				
Injection Date:	23-Jul-2024 20:11:30	Instrument ID:	26285		
Lims ID:	IC v1				
Client ID:					
Operator ID:	gaw91131	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Methylene Chloride, CAS: 75-09-2

Signal: 1

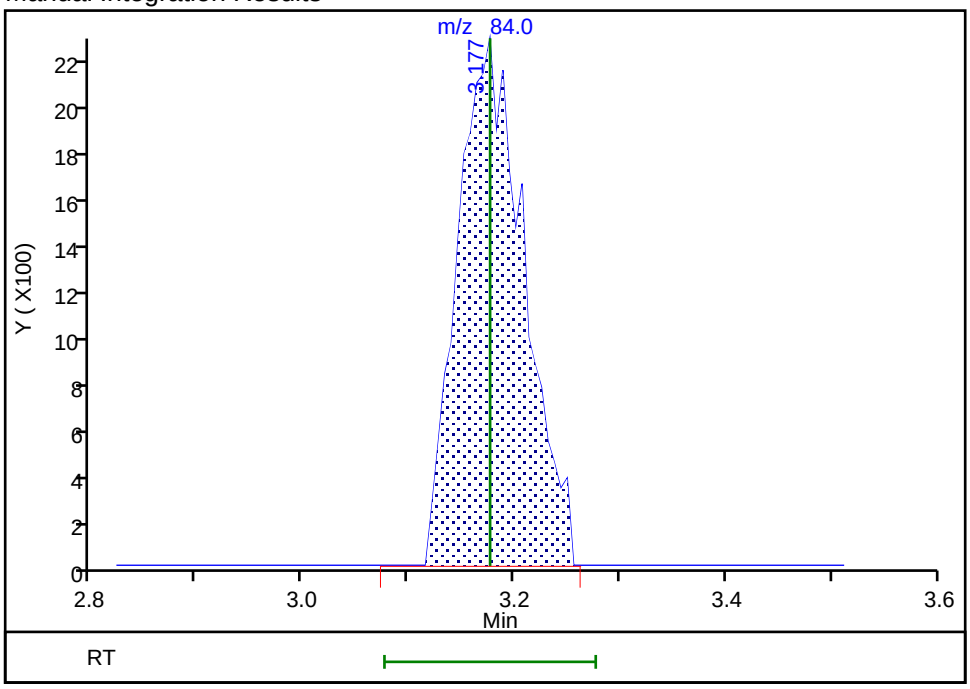
Not Detected
Expected RT: 3.18

Processing Integration Results



Manual Integration Results

RT: 3.18
Area: 9842
Amount: 1.064737
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 10:43:11 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

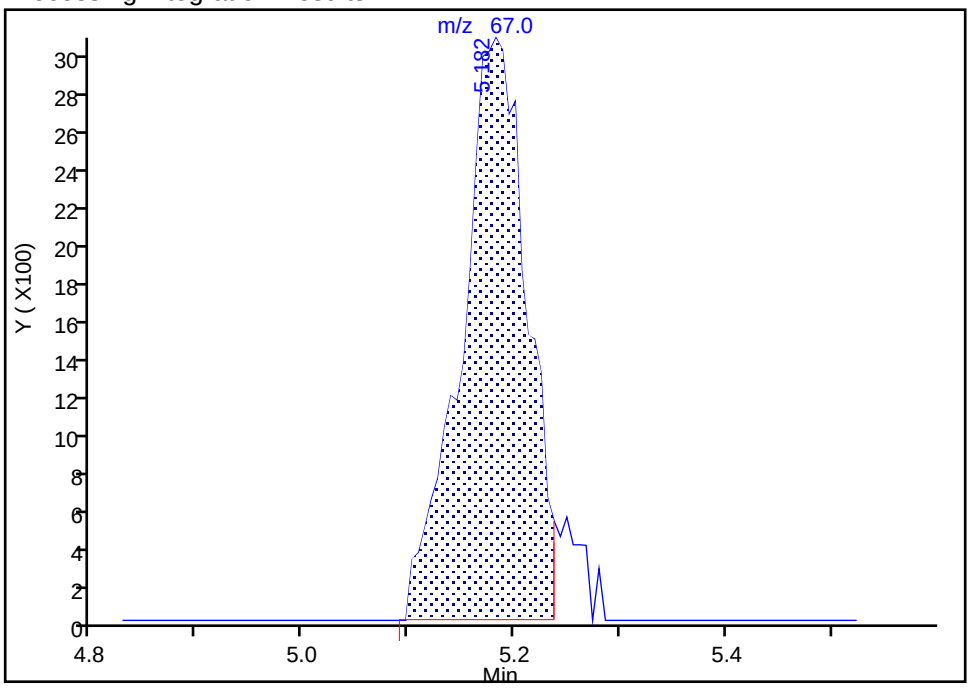
Data File:	\\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X06.D				
Injection Date:	23-Jul-2024 20:11:30	Instrument ID:	26285		
Lims ID:	IC v1				
Client ID:					
Operator ID:	gaw91131	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Methacrylonitrile, CAS: 126-98-7

Signal: 1

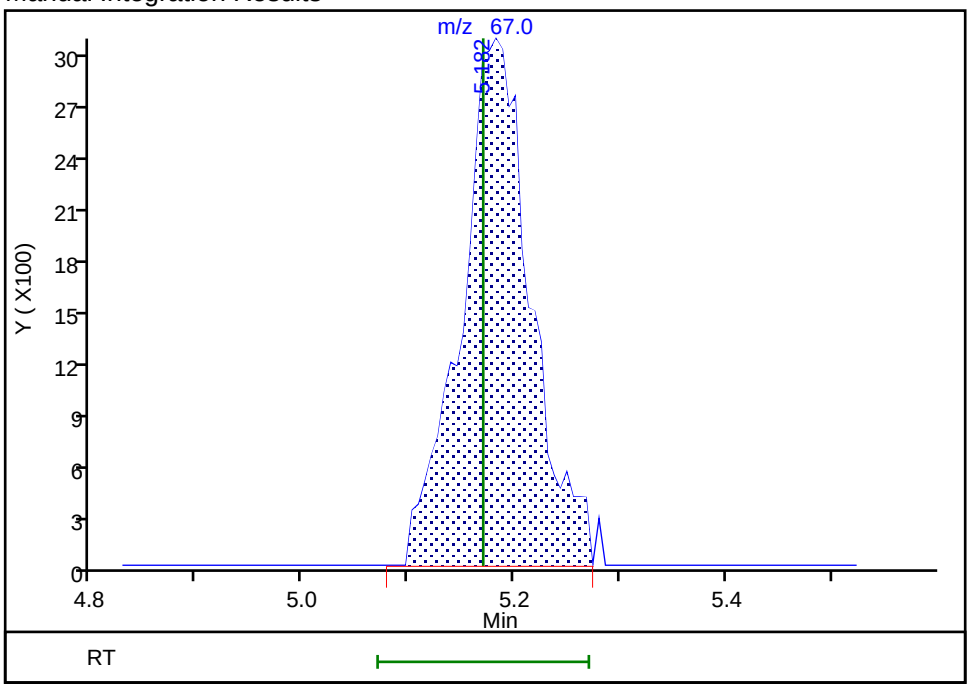
Processing Integration Results

RT: 5.18
Area: 13107
Amount: 2.368875
Amount Units: ug/l



Manual Integration Results

RT: 5.18
Area: 13894
Amount: 2.490867
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 10:43:42 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

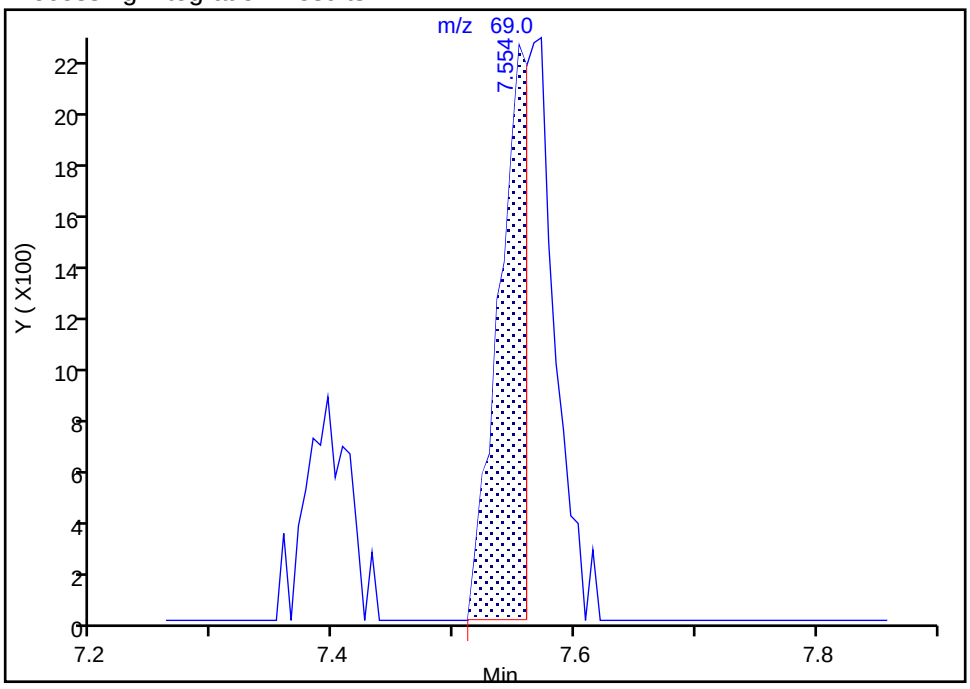
Data File:	\\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X06.D				
Injection Date:	23-Jul-2024 20:11:30	Instrument ID:	26285		
Lims ID:	IC v1				
Client ID:					
Operator ID:	gaw91131	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

71 Methyl methacrylate, CAS: 80-62-6

Signal: 1

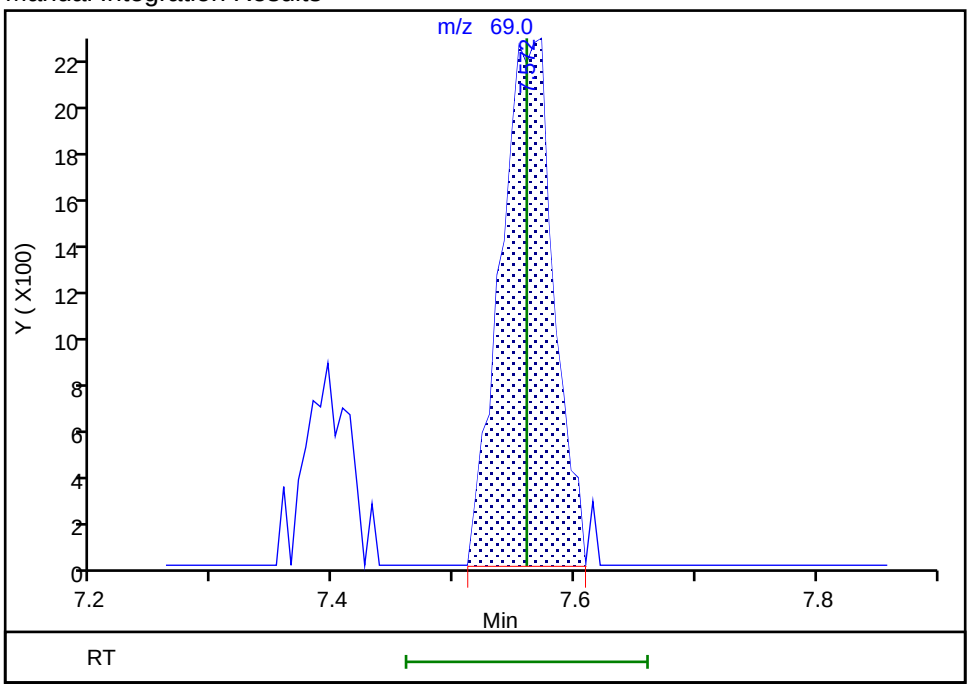
Processing Integration Results

RT: 7.55
Area: 3815
Amount: 0.806581
Amount Units: ug/l



Manual Integration Results

RT: 7.57
Area: 6944
Amount: 0.884064
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 10:44:16 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

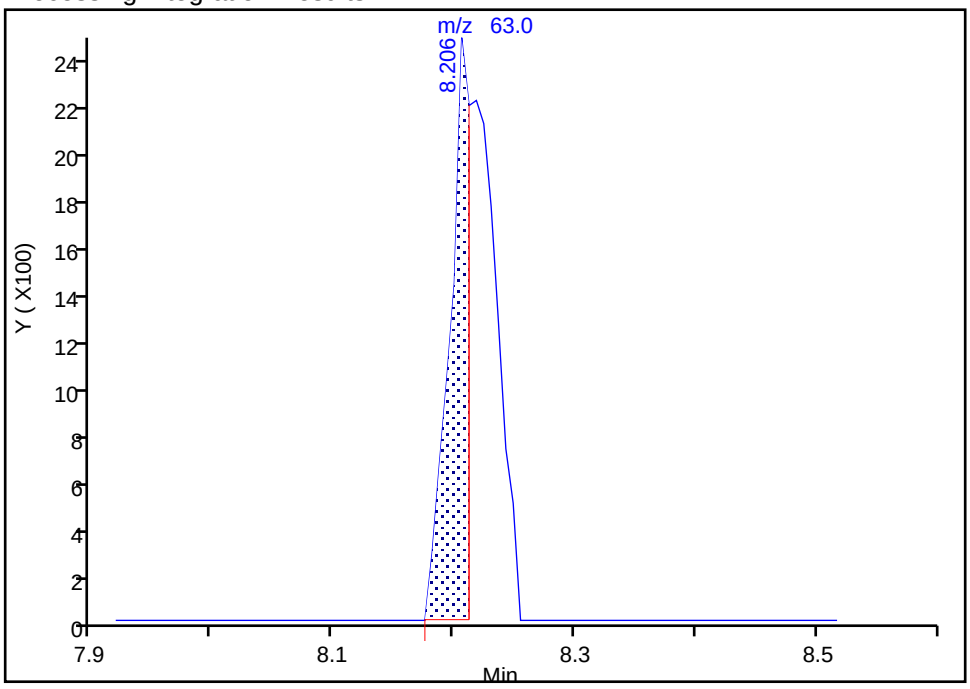
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X06.D
Injection Date: 23-Jul-2024 20:11:30 Instrument ID: 26285
Lims ID: IC v1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

76 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

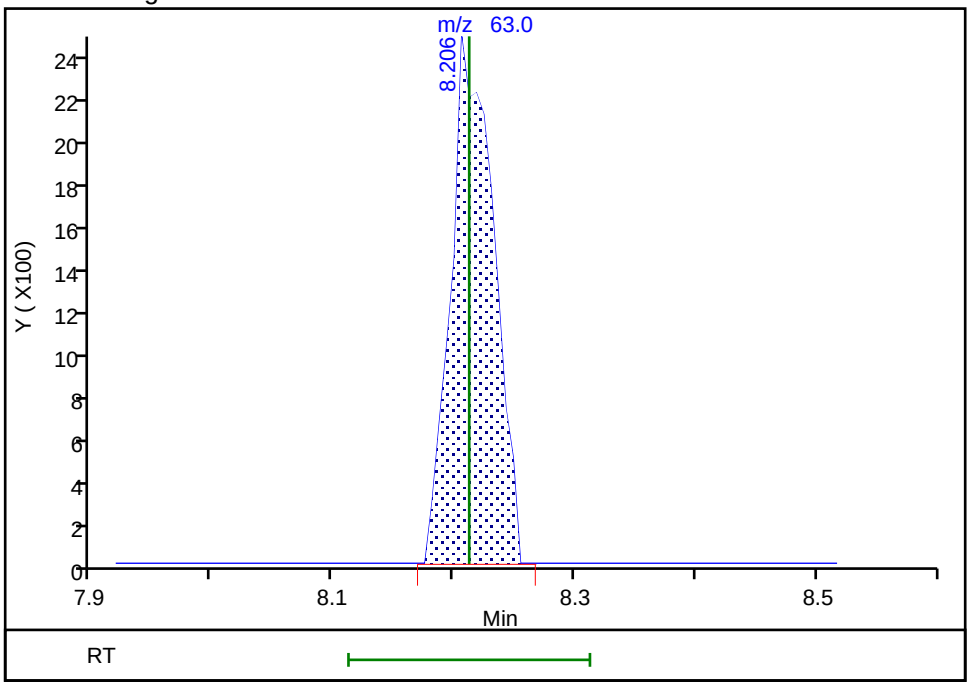
Processing Integration Results

RT: 8.21
Area: 2946
Amount: 1.324106
Amount Units: ug/l



Manual Integration Results

RT: 8.21
Area: 6063
Amount: 0.905600
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 10:44:30 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X07.D
Lims ID: IC v4
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Jul-2024 20:31:30 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120132-013
Misc. Info.: IC V4
Operator ID: gaw91131 Instrument ID: 26285
Sublist: chrom-MSVoa_26285a*sub89

Method: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 24-Jul-2024 14:20:53 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1614

First Level Reviewer: ULCP Date: 24-Jul-2024 10:46:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.518	1.519	-0.001	39	49138	4.00	4.08	
4 Chloromethane	50	1.665	1.665	0.000	99	65050	4.00	4.17	
5 Vinyl chloride	62	1.750	1.750	0.000	98	53881	4.00	4.26	
6 Butadiene	39	1.774	1.775	-0.001	99	63679	4.00	4.33	
8 Bromomethane	94	2.006	2.012	-0.006	92	33520	4.00	3.99	
9 Chloroethane	64	2.037	2.037	0.000	98	29083	4.00	4.11	
10 Dichlorofluoromethane	67	2.256	2.256	0.000	97	92322	4.00	4.12	
12 Pentane	43	2.268	2.275	-0.007	92	44321	4.00	4.37	M
11 Trichlorofluoromethane	101	2.293	2.305	-0.012	98	59042	4.00	4.08	
14 Ethyl ether	59	2.427	2.427	0.000	94	22047	4.00	4.12	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.518	2.518	0.000	95	48224	4.00	4.19	
16 Acrolein	56	2.555	2.555	0.000	99	127552	40.1	39.1	
17 1,1-Dichloroethene	96	2.677	2.677	0.000	95	28915	4.00	4.27	
18 Acetone	58	2.689	2.683	0.006	96	11758	8.00	8.02	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.707	2.713	-0.006	92	34425	4.00	4.40	
21 Isopropyl alcohol	45	2.835	2.823	0.012	32	27503	20.0	20.3	
20 Iodomethane	142	2.829	2.835	-0.006	100	57508	4.00	4.23	
22 Carbon disulfide	76	2.945	2.951	-0.006	100	94498	4.00	4.17	M
24 Methyl acetate	43	3.000	2.994	0.006	100	43476	4.00	3.84	
25 3-Chloro-1-propene	41	3.012	3.012	0.000	89	59739	4.00	3.97	
26 Methylene Chloride	84	3.164	3.177	-0.013	88	36265	4.00	4.11	
* 27 t-Butyl alcohol-d10 (IS)	65	3.195	3.189	0.006	98	466034	250.0	250.0	
29 2-Methyl-2-propanol	59	3.262	3.280	-0.018	97	49509	20.0	19.9	
30 Acrylonitrile	53	3.396	3.402	-0.006	97	60898	10.0	10.3	
31 trans-1,2-Dichloroethene	96	3.463	3.463	0.000	94	32578	4.00	4.29	
32 Methyl tert-butyl ether	73	3.469	3.476	-0.007	90	108181	4.00	4.13	
33 Hexane	57	3.817	3.817	0.000	96	44010	4.00	4.40	
34 1,1-Dichloroethane	63	4.018	4.018	0.000	96	63392	4.00	4.16	
36 Isopropyl ether	45	4.097	4.091	0.006	95	118670	4.00	4.05	
37 2-Chloro-1,3-butadiene	53	4.122	4.122	0.000	93	55994	4.00	4.28	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	4.634	4.652	-0.018	99	108659	4.00	4.03	
39 2-Butanone (MEK)	43	4.859	4.865	-0.006	99	58840	8.00	7.13	
40 cis-1,2-Dichloroethene	96	4.884	4.884	0.000	85	37208	4.00	4.21	
41 2,2-Dichloropropane	77	4.896	4.902	-0.006	91	53753	4.00	4.29	
43 Propionitrile	54	4.951	4.951	0.000	96	46992	20.0	19.7	
44 Methyl acrylate	55	5.012	5.006	0.006	99	54681	4.00	3.89	
45 Methacrylonitrile	67	5.170	5.170	0.000	94	52557	10.0	9.86	
46 Chlorobromomethane	128	5.225	5.225	0.000	96	17633	4.00	4.19	
47 Tetrahydrofuran	71	5.249	5.243	0.006	95	41258	20.0	19.8	
48 Chloroform	83	5.402	5.402	0.000	95	61291	4.00	4.15	
$ 49 Dibromofluoromethane (Surr)	113	5.627	5.628	-0.001	93	344789	50.0	50.8	
50 1,1,1-Trichloroethane	97	5.627	5.634	-0.007	73	52229	4.00	4.22	
51 Cyclohexane	56	5.743	5.737	0.006	95	64225	4.00	4.31	
52 Carbon tetrachloride	117	5.853	5.853	0.000	72	42057	4.00	4.10	
53 1,1-Dichloropropene	75	5.859	5.859	0.000	93	48077	4.00	4.22	
55 Isobutyl alcohol	41	6.085	6.085	0.000	31	38518	50.0	49.1	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.103	6.097	0.006	75	75297	50.0	50.6	
57 Benzene	78	6.127	6.134	-0.007	93	136877	4.00	4.12	
S 54 1,2-Dichloroethene, Total	100				0			8.49	
58 1,2-Dichloroethane	62	6.213	6.213	0.000	97	48957	4.00	4.12	
60 Tert-amyl methyl ether	73	6.359	6.359	0.000	98	99996	4.00	3.96	
* 61 Fluorobenzene (IS)	96	6.572	6.572	0.000	98	1289742	50.0	50.0	
62 n-Heptane	43	6.615	6.609	0.006	96	45027	4.00	4.39	
63 n-Butanol	56	7.017	7.030	-0.013	92	24572	50.0	47.3	
64 Trichloroethene	95	7.084	7.078	0.006	96	34394	4.00	4.10	
66 Methylcyclohexane	83	7.395	7.395	0.000	91	55064	4.00	4.28	
65 Ethyl acrylate	55	7.395	7.402	-0.007	80	47537	4.00	4.22	
67 1,2-Dichloropropane	63	7.426	7.420	0.006	87	36389	4.00	4.07	
68 2-ethoxy-2-methyl butane	87	7.475	7.475	0.000	89	45162	4.00	3.89	
69 1,4-Dioxane	88	7.554	7.536	0.018	30	4164	50.0	41.7	M
70 Dibromomethane	93	7.542	7.536	0.006	95	23186	4.00	4.13	
71 Methyl methacrylate	69	7.560	7.560	0.000	92	28966	4.00	3.86	
74 Dichlorobromomethane	83	7.804	7.804	0.000	98	41363	4.00	3.93	
75 2-Nitropropane	41	8.090	8.090	0.000	99	73494	20.0	18.5	
76 2-Chloroethyl vinyl ether	63	8.206	8.212	-0.006	91	24416	4.00	3.82	
77 cis-1,3-Dichloropropene	75	8.395	8.395	0.000	93	49992	4.00	3.77	
78 4-Methyl-2-pentanone (MIBK)	43	8.608	8.609	-0.001	99	117270	8.00	7.43	
$ 79 Toluene-d8 (Surr)	98	8.743	8.743	0.000	94	1210826	50.0	50.1	
80 Toluene	92	8.828	8.828	0.000	98	78323	4.00	4.11	
84 trans-1,3-Dichloropropene	75	9.163	9.163	0.000	97	44136	4.00	3.76	
85 Ethyl methacrylate	69	9.267	9.267	0.000	91	50352	4.00	3.95	
86 1,1,2-Trichloroethane	97	9.401	9.401	0.000	92	27876	4.00	3.98	
87 Tetrachloroethene	166	9.492	9.493	-0.001	96	32528	4.00	4.10	
88 1,3-Dichloropropane	76	9.584	9.584	0.000	94	46332	4.00	3.91	
90 2-Hexanone	43	9.675	9.676	-0.001	98	82770	8.00	7.56	
91 Chlorodibromomethane	129	9.828	9.828	0.000	90	29282	4.00	3.81	
96 Ethylene Dibromide	107	9.938	9.938	0.000	98	28927	4.00	3.80	
S 97 1,3-Dichloropropene, Total	100				0			7.53	
* 98 Chlorobenzene-d5 (IS)	117	10.437	10.438	-0.001	88	918970	50.0	50.0	
99 Chlorobenzene	112	10.468	10.468	0.000	93	83297	4.00	4.01	
100 1-Chlorohexane	91	10.474	10.474	0.000	94	42667	4.00	4.30	
128 1,1,1,2-Tetrachloroethane	131	10.565	10.566	-0.001	94	30194	4.00	3.93	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
129 Ethylbenzene	91	10.578	10.578	0.000	99	159097	4.00	4.11	
130 m-Xylene & p-Xylene	106	10.706	10.706	0.000	98	118043	8.00	8.17	
131 n-Butyl acrylate	55	11.041	11.041	0.000	95	81639	4.00	3.97	
132 o-Xylene	106	11.059	11.059	0.000	98	60168	4.00	4.10	
133 Styrene	104	11.078	11.078	0.000	95	93844	4.00	4.02	
135 Bromoform	173	11.236	11.236	0.000	95	23052	4.00	3.77	
S 134 Xylenes, Total	106				0			12.3	
136 Isopropylbenzene	105	11.395	11.395	0.000	96	136720	4.00	4.05	
137 Cyclohexanone	55	11.456	11.456	0.000	94	101470	200.0	193.2	
$ 140 4-Bromofluorobenzene (Surr)	95	11.535	11.535	0.000	89	494424	50.0	50.8	
143 Bromobenzene	156	11.651	11.651	0.000	93	36728	4.00	3.96	
144 1,1,2,2-Tetrachloroethane	83	11.663	11.663	0.000	94	54635	4.00	3.93	
145 trans-1,4-Dichloro-2-butene	53	11.687	11.687	0.000	92	40604	10.0	9.46	
146 1,2,3-Trichloropropane	110	11.699	11.700	-0.001	85	14435	4.00	3.89	
147 N-Propylbenzene	91	11.748	11.748	0.000	99	186823	4.00	4.09	
148 2-Chlorotoluene	126	11.815	11.815	0.000	96	36553	4.00	4.07	
149 1,3,5-Trimethylbenzene	105	11.901	11.895	0.006	94	121827	4.00	3.91	
150 4-Chlorotoluene	126	11.919	11.913	0.006	99	35298	4.00	4.03	
152 tert-Butylbenzene	134	12.144	12.145	-0.001	93	19786	4.00	3.70	
154 1,2,4-Trimethylbenzene	105	12.193	12.193	0.000	98	126774	4.00	3.93	
155 sec-Butylbenzene	105	12.321	12.321	0.000	95	147533	4.00	3.96	
156 1,3-Dichlorobenzene	146	12.413	12.413	0.000	97	66820	4.00	3.95	
157 4-Isopropyltoluene	119	12.437	12.437	0.000	98	127023	4.00	4.00	
* 158 1,4-Dichlorobenzene-d4	152	12.474	12.474	0.000	96	530396	50.0	50.0	
159 1,4-Dichlorobenzene	146	12.492	12.492	0.000	95	69050	4.00	4.01	
160 1,2,3-Trimethylbenzene	105	12.510	12.510	0.000	99	127733	4.00	3.88	
164 Benzyl chloride	91	12.571	12.571	0.000	98	98188	4.00	3.74	
165 1,3-Diethylbenzene	119	12.650	12.651	-0.001	95	74596	4.00	4.07	
166 p-Diethylbenzene	119	12.724	12.724	0.000	92	75443	4.00	3.97	
167 n-Butylbenzene	92	12.742	12.742	0.000	97	65383	4.00	4.06	
168 1,2-Dichlorobenzene	146	12.760	12.760	0.000	97	68330	4.00	4.00	
169 o-diethylbenzene	119	12.797	12.797	0.000	97	59076	4.00	3.92	
170 1,2-Dibromo-3-Chloropropane	75	13.321	13.321	0.000	79	13836	4.00	3.67	
171 1,3,5-Trichlorobenzene	180	13.455	13.455	0.000	96	45356	4.00	3.94	
173 1,2,4-Trichlorobenzene	180	13.894	13.888	0.006	94	44063	4.00	3.94	
175 2-Ethylhexyl acrylate	55	13.985	13.980	0.005	82	46005	4.00	3.54	
174 Hexachlorobutadiene	225	13.985	13.986	-0.001	64	17500	4.00	4.02	
176 Naphthalene	128	14.071	14.071	0.000	97	174385	4.00	3.99	
177 1,2,3-Trichlorobenzene	180	14.217	14.217	0.000	95	44340	4.00	3.99	
178 2-Methylnaphthalene	142	14.815	14.815	0.000	92	85666	4.00	3.80	
S 182 Total Diethylbenzene	1				0			12.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_CYC_00010	Amount Added:	32.00	Units: uL	
MSV_CCV_GASES_00843	Amount Added:	2.00	Units: uL	
MSV_CCV_VOC#3_00189	Amount Added:	3.20	Units: uL	
MSV_CCV_2CEVE_00185	Amount Added:	4.00	Units: uL	
MSV_CCV_EE_00007	Amount Added:	4.00	Units: uL	
MSV_CCV_VOC#1_00193	Amount Added:	4.00	Units: uL	
MSV_CCV_OH_Sp_00012	Amount Added:	4.00	Units: uL	
MSV_Cent_ISSS_00029	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 24-Jul-2024 14:20:56 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X07.D

Injection Date: 23-Jul-2024 20:31:30 Instrument ID: 26285 Operator ID: gaw91131

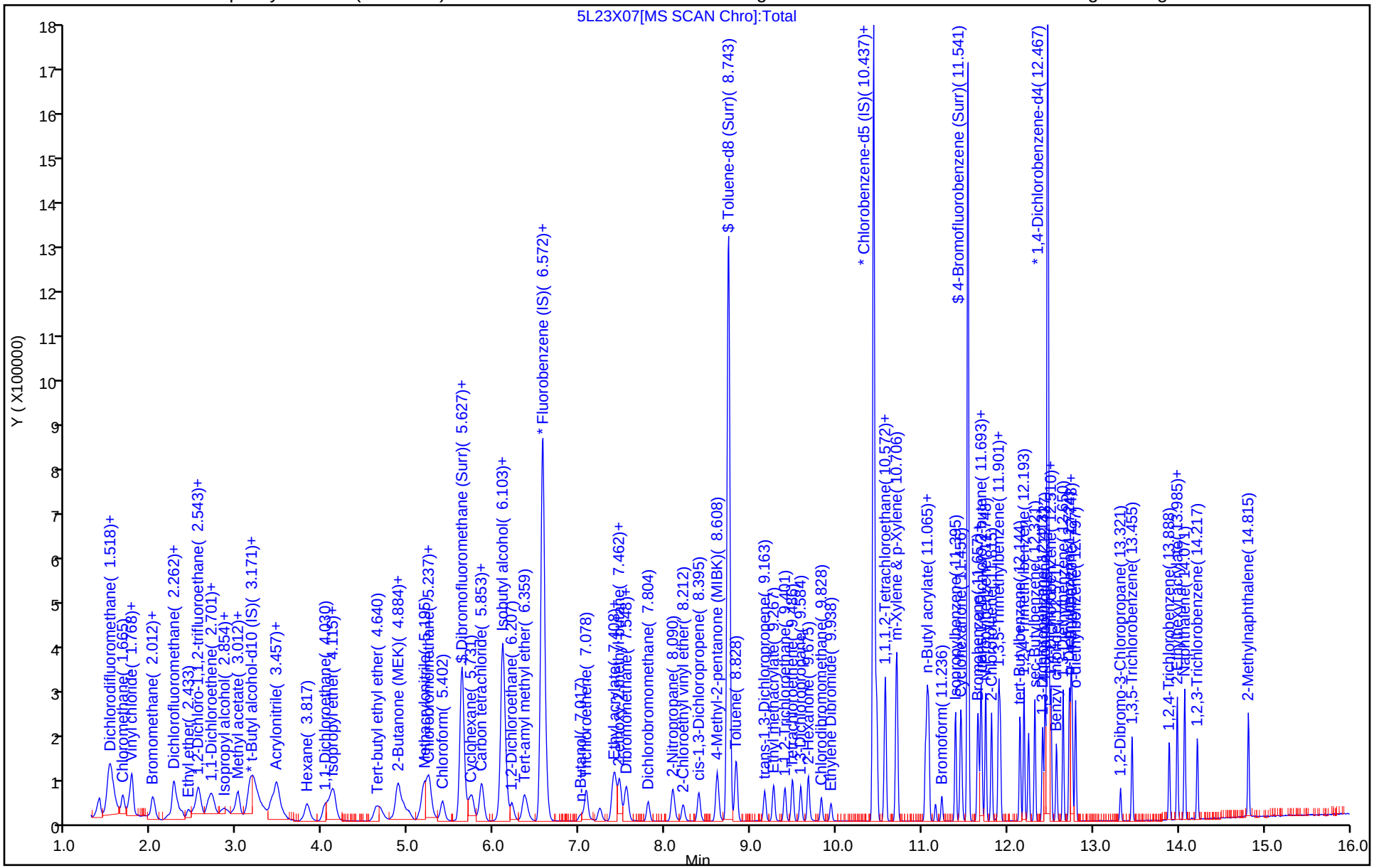
Lims ID: IC v4 Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: MSVoa_26285a Limit Group: MSV - 8260C_D

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

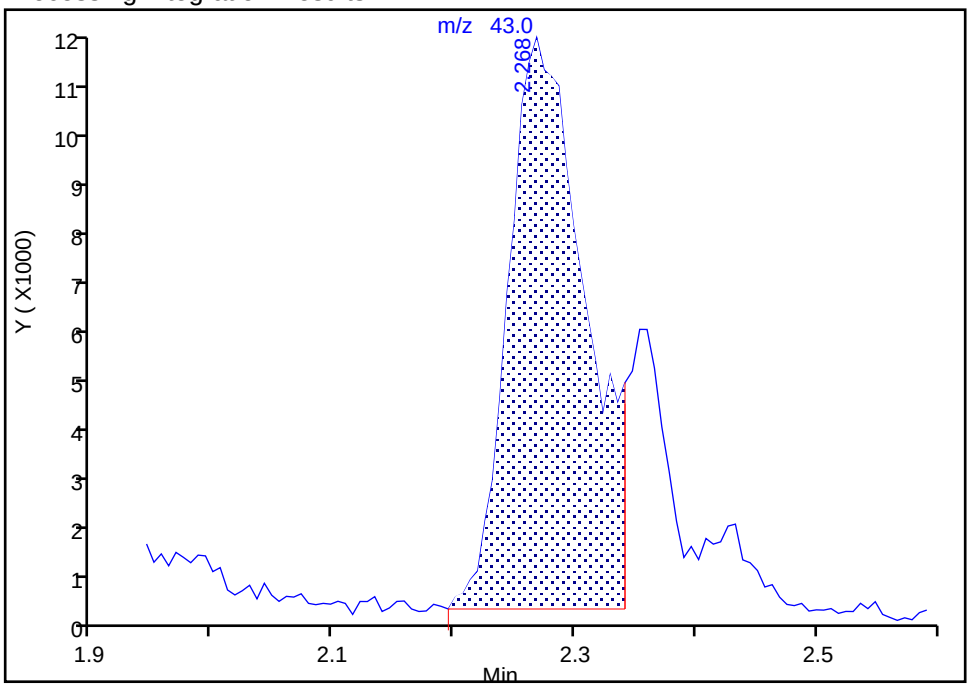
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X07.D
Injection Date: 23-Jul-2024 20:31:30 Instrument ID: 26285
Lims ID: IC v4
Client ID:
Operator ID: gaw91131 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

12 Pentane, CAS: 109-66-0

Signal: 1

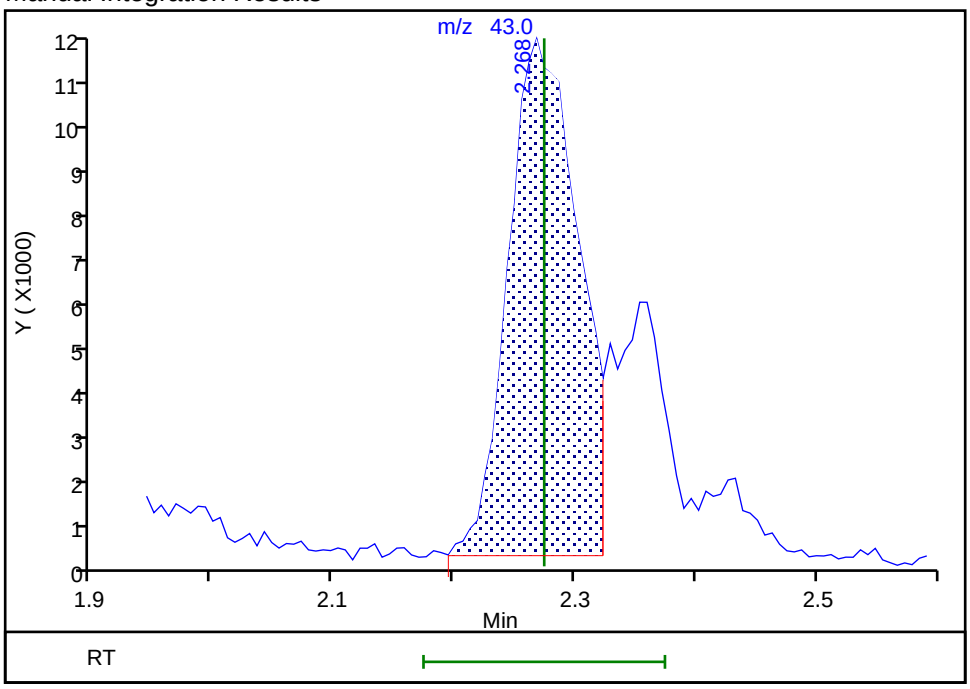
Processing Integration Results

RT: 2.27
Area: 48974
Amount: 4.755958
Amount Units: ug/l



Manual Integration Results

RT: 2.27
Area: 44321
Amount: 4.369293
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 10:48:12 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

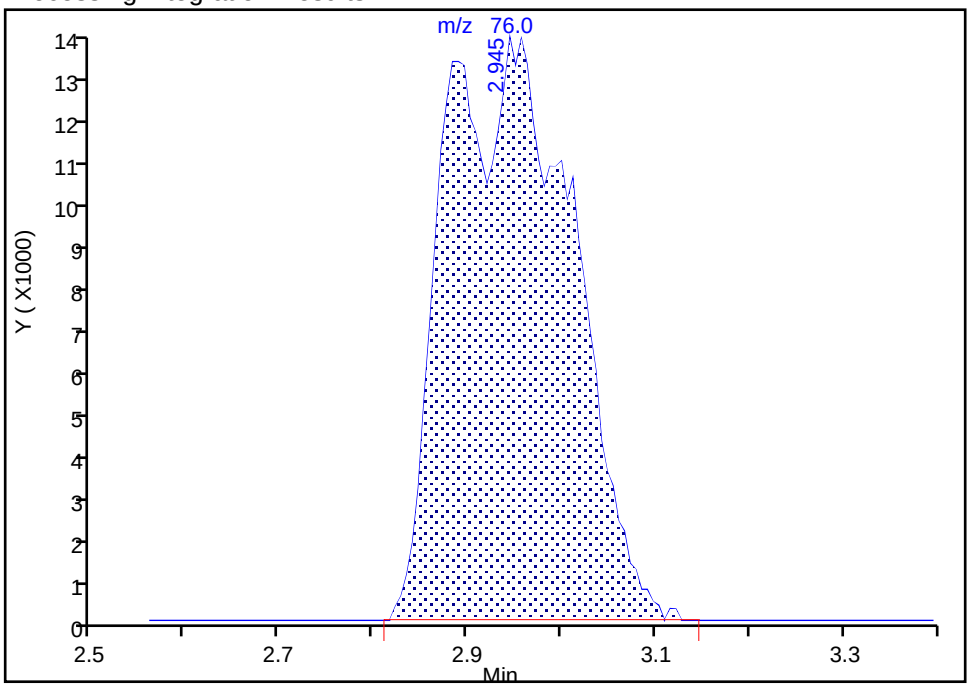
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X07.D
Injection Date: 23-Jul-2024 20:31:30 Instrument ID: 26285
Lims ID: IC v4
Client ID:
Operator ID: gaw91131 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

22 Carbon disulfide, CAS: 75-15-0

Signal: 1

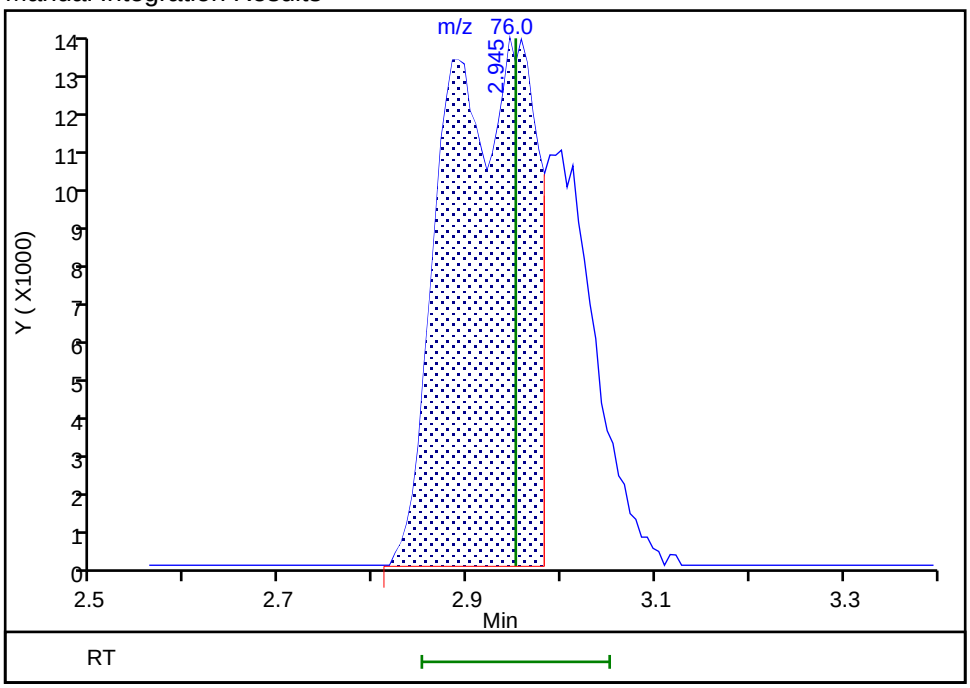
Processing Integration Results

RT: 2.94
Area: 132386
Amount: 4.419150
Amount Units: ug/l



Manual Integration Results

RT: 2.94
Area: 94498
Amount: 4.172774
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 10:45:54 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

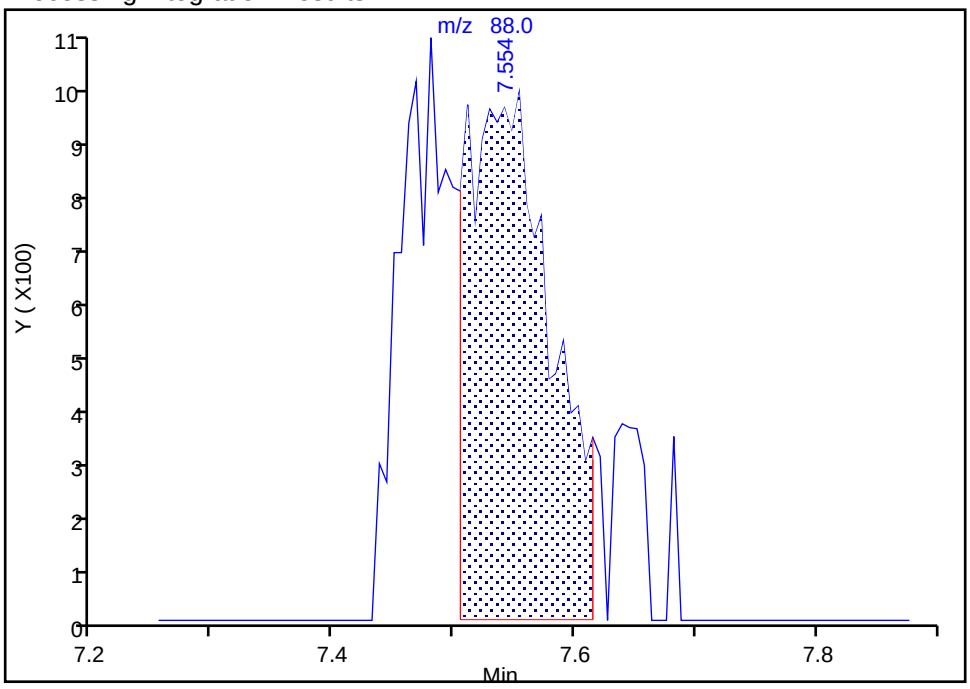
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X07.D
Injection Date: 23-Jul-2024 20:31:30 Instrument ID: 26285
Lims ID: IC v4
Client ID:
Operator ID: gaw91131 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

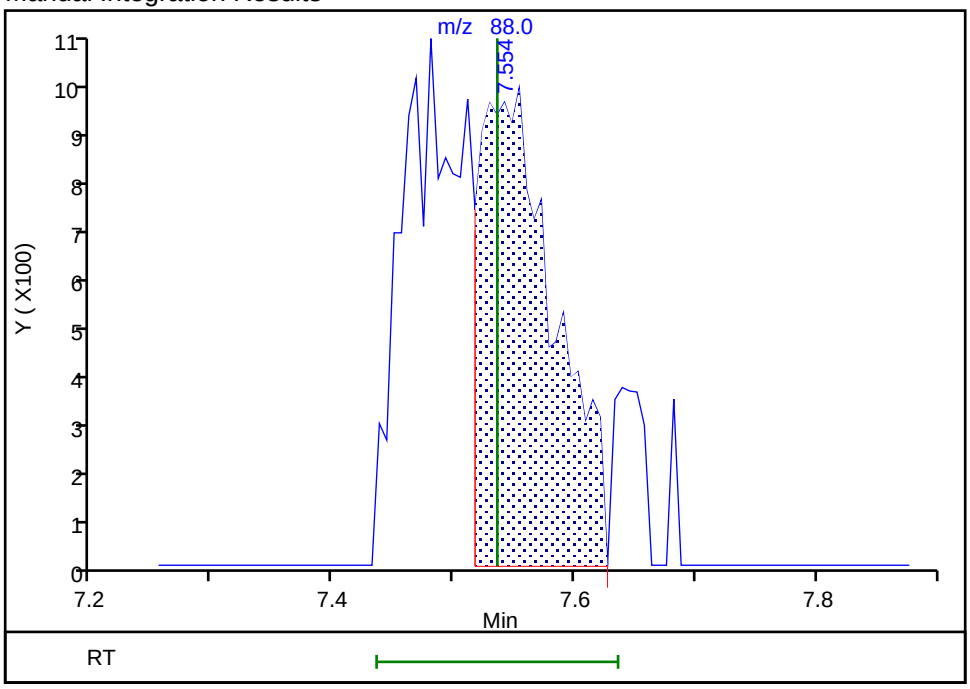
Processing Integration Results

RT: 7.55
Area: 4680
Amount: 39.773498
Amount Units: ug/l



Manual Integration Results

RT: 7.55
Area: 4164
Amount: 41.687832
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 10:49:36 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X08.D
Lims ID: IC v10
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Jul-2024 20:52:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120132-014
Misc. Info.: IC V10
Operator ID: gaw91131 Instrument ID: 26285
Sublist: chrom-MSVoa_26285a*sub89

Method: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 24-Jul-2024 14:21:49 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1614

First Level Reviewer: ULCP Date: 24-Jul-2024 11:20:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.518	1.519	-0.001	47	140514	10.0	11.4	
4 Chloromethane	50	1.665	1.665	0.000	99	176615	10.0	11.1	
5 Vinyl chloride	62	1.750	1.750	0.000	98	145907	10.0	11.3	
6 Butadiene	39	1.775	1.775	0.000	97	174471	10.0	11.6	M
8 Bromomethane	94	2.018	2.012	0.006	91	93614	10.0	10.9	
9 Chloroethane	64	2.043	2.037	0.006	98	79432	10.0	11.0	
10 Dichlorofluoromethane	67	2.262	2.256	0.006	97	252007	10.0	11.0	
12 Pentane	43	2.268	2.275	-0.007	84	103009	10.0	9.92	M
11 Trichlorofluoromethane	101	2.299	2.305	-0.006	98	164826	10.0	11.1	
14 Ethyl ether	59	2.433	2.427	0.006	97	55773	10.0	10.2	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.518	2.518	0.000	95	129985	10.0	11.0	
16 Acrolein	56	2.561	2.555	0.006	98	336987	100.2	97.4	
17 1,1-Dichloroethene	96	2.671	2.677	-0.006	95	72429	10.0	10.5	
18 Acetone	58	2.695	2.683	0.012	99	31743	20.0	20.4	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.713	2.713	0.000	94	83089	10.0	10.4	
21 Isopropyl alcohol	45	2.817	2.823	-0.006	40	73261	50.0	51.1	
20 Iodomethane	142	2.835	2.835	0.000	100	141388	10.0	10.2	
22 Carbon disulfide	76	2.957	2.951	0.006	100	239878	10.0	10.4	M
24 Methyl acetate	43	3.000	2.994	0.006	99	109391	10.0	9.45	
25 3-Chloro-1-propene	41	3.012	3.012	0.000	88	151591	10.0	9.84	
26 Methylene Chloride	84	3.165	3.177	-0.012	98	89895	10.0	9.95	
* 27 t-Butyl alcohol-d10 (IS)	65	3.189	3.189	0.000	96	493903	250.0	250.0	
29 2-Methyl-2-propanol	59	3.262	3.280	-0.018	99	136964	50.0	52.1	
30 Acrylonitrile	53	3.402	3.402	0.000	98	158585	25.0	26.1	
31 trans-1,2-Dichloroethene	96	3.463	3.463	0.000	94	79292	10.0	10.2	
32 Methyl tert-butyl ether	73	3.463	3.476	-0.013	96	271754	10.0	10.1	
33 Hexane	57	3.817	3.817	0.000	96	106682	10.0	10.4	
34 1,1-Dichloroethane	63	4.018	4.018	0.000	96	160630	10.0	10.3	
36 Isopropyl ether	45	4.085	4.091	-0.006	95	301967	10.0	10.1	
37 2-Chloro-1,3-butadiene	53	4.128	4.122	0.006	93	137496	10.0	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	4.634	4.652	-0.018	99	279824	10.0	10.1	
39 2-Butanone (MEK)	43	4.859	4.865	-0.006	99	164852	20.0	19.5	
40 cis-1,2-Dichloroethene	96	4.884	4.884	0.000	89	91895	10.0	10.2	
41 2,2-Dichloropropane	77	4.914	4.902	0.012	93	132083	10.0	10.3	
43 Propionitrile	54	4.951	4.951	0.000	96	127214	50.0	50.3	
44 Methyl acrylate	55	5.000	5.006	-0.006	99	139353	10.0	9.70	
45 Methacrylonitrile	67	5.176	5.170	0.006	97	137592	25.0	25.2	
46 Chlorobromomethane	128	5.231	5.225	0.006	94	43948	10.0	10.2	
47 Tetrahydrofuran	71	5.249	5.243	0.006	94	108485	50.0	49.0	
48 Chloroform	83	5.402	5.402	0.000	95	152305	10.0	10.1	
$ 49 Dibromofluoromethane (Surr)	113	5.627	5.628	-0.001	93	351315	50.0	50.6	
50 1,1,1-Trichloroethane	97	5.640	5.634	0.006	98	130545	10.0	10.3	
51 Cyclohexane	56	5.737	5.737	0.000	95	155672	10.0	10.2	
52 Carbon tetrachloride	117	5.859	5.853	0.006	75	108773	10.0	10.4	
53 1,1-Dichloropropene	75	5.853	5.859	-0.006	93	120847	10.0	10.4	
55 Isobutyl alcohol	41	6.091	6.085	0.006	90	104085	125.0	125.3	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.103	6.097	0.006	75	77600	50.0	50.9	
57 Benzene	78	6.133	6.134	-0.001	95	340924	10.0	10.0	
S 54 1,2-Dichloroethene, Total	100				0			20.3	
58 1,2-Dichloroethane	62	6.213	6.213	0.000	97	123078	10.0	10.1	
60 Tert-amyl methyl ether	73	6.359	6.359	0.000	98	257002	10.0	9.96	
* 61 Fluorobenzene (IS)	96	6.572	6.572	0.000	98	1319825	50.0	50.0	
62 n-Heptane	43	6.615	6.609	0.006	97	107441	10.0	10.2	
63 n-Butanol	56	7.030	7.030	0.000	93	71625	125.0	130.1	
64 Trichloroethene	95	7.078	7.078	0.000	97	87120	10.0	10.1	
66 Methylcyclohexane	83	7.395	7.395	0.000	93	137249	10.0	10.4	
65 Ethyl acrylate	55	7.395	7.402	-0.007	77	116788	10.0	10.1	
67 1,2-Dichloropropane	63	7.426	7.420	0.006	97	90701	10.0	9.92	
68 2-ethoxy-2-methyl butane	87	7.469	7.475	-0.006	90	117846	10.0	9.93	
69 1,4-Dioxane	88	7.530	7.536	-0.006	69	17876	125.0	138.2	M
70 Dibromomethane	93	7.542	7.536	0.006	96	57981	10.0	10.1	
71 Methyl methacrylate	69	7.554	7.560	-0.006	94	77086	10.0	10.0	
74 Dichlorobromomethane	83	7.804	7.804	0.000	98	104997	10.0	9.74	
75 2-Nitropropane	41	8.096	8.090	0.006	98	202542	50.0	48.2	
76 2-Chloroethyl vinyl ether	63	8.212	8.212	0.000	92	63347	10.0	9.68	
77 cis-1,3-Dichloropropene	75	8.395	8.395	0.000	93	131646	10.0	9.70	
78 4-Methyl-2-pentanone (MIBK)	43	8.609	8.609	0.000	98	327941	20.0	20.3	
$ 79 Toluene-d8 (Surr)	98	8.743	8.743	0.000	94	1246944	50.0	50.3	
80 Toluene	92	8.828	8.828	0.000	97	197736	10.0	10.1	
84 trans-1,3-Dichloropropene	75	9.163	9.163	0.000	96	117326	10.0	9.73	
85 Ethyl methacrylate	69	9.267	9.267	0.000	91	130670	10.0	9.98	
86 1,1,2-Trichloroethane	97	9.401	9.401	0.000	91	73078	10.0	10.2	
87 Tetrachloroethene	166	9.493	9.493	0.000	96	85486	10.0	10.5	
88 1,3-Dichloropropane	76	9.584	9.584	0.000	94	122564	10.0	10.1	
90 2-Hexanone	43	9.675	9.676	-0.001	99	231824	20.0	20.6	
91 Chlorodibromomethane	129	9.828	9.828	0.000	90	76820	10.0	9.73	
96 Ethylene Dibromide	107	9.938	9.938	0.000	98	77628	10.0	9.95	
S 97 1,3-Dichloropropene, Total	100				0			19.4	
* 98 Chlorobenzene-d5 (IS)	117	10.437	10.438	-0.001	87	943243	50.0	50.0	
99 Chlorobenzene	112	10.468	10.468	0.000	93	217292	10.0	10.2	
100 1-Chlorohexane	91	10.474	10.474	0.000	95	108897	10.0	10.7	
128 1,1,1,2-Tetrachloroethane	131	10.566	10.566	0.000	94	80353	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
129 Ethylbenzene	91	10.578	10.578	0.000	99	411037	10.0	10.4	
130 m-Xylene & p-Xylene	106	10.706	10.706	0.000	99	309697	20.0	20.9	
131 n-Butyl acrylate	55	11.041	11.041	0.000	95	206951	10.0	9.81	
132 o-Xylene	106	11.059	11.059	0.000	98	155200	10.0	10.3	
133 Styrene	104	11.078	11.078	0.000	95	245301	10.0	10.2	
135 Bromoform	173	11.236	11.236	0.000	96	61236	10.0	9.77	
S 134 Xylenes, Total	106				0			31.2	
136 Isopropylbenzene	105	11.395	11.395	0.000	96	370570	10.0	10.7	
137 Cyclohexanone	55	11.456	11.456	0.000	95	139307	250.0	250.2	
$ 140 4-Bromofluorobenzene (Surr)	95	11.535	11.535	0.000	89	501943	50.0	50.2	
143 Bromobenzene	156	11.651	11.651	0.000	95	94018	10.0	9.95	
144 1,1,2,2-Tetrachloroethane	83	11.663	11.663	0.000	93	144282	10.0	10.2	
145 trans-1,4-Dichloro-2-butene	53	11.687	11.687	0.000	91	111181	25.0	25.4	
146 1,2,3-Trichloropropane	110	11.699	11.700	-0.001	83	39267	10.0	10.4	
147 N-Propylbenzene	91	11.748	11.748	0.000	99	493862	10.0	10.6	
148 2-Chlorotoluene	126	11.815	11.815	0.000	96	94659	10.0	10.3	
149 1,3,5-Trimethylbenzene	105	11.895	11.895	0.000	94	330725	10.0	10.4	
150 4-Chlorotoluene	126	11.919	11.913	0.006	98	91083	10.0	10.2	
152 tert-Butylbenzene	134	12.151	12.145	0.006	94	56144	10.0	10.3	
154 1,2,4-Trimethylbenzene	105	12.193	12.193	0.000	98	340840	10.0	10.4	
155 sec-Butylbenzene	105	12.321	12.321	0.000	95	400274	10.0	10.5	
156 1,3-Dichlorobenzene	146	12.413	12.413	0.000	97	176955	10.0	10.3	
157 4-Isopropyltoluene	119	12.437	12.437	0.000	97	339017	10.0	10.5	
* 158 1,4-Dichlorobenzene-d4	152	12.474	12.474	0.000	96	540243	50.0	50.0	
159 1,4-Dichlorobenzene	146	12.492	12.492	0.000	95	178313	10.0	10.2	
160 1,2,3-Trimethylbenzene	105	12.510	12.510	0.000	99	349684	10.0	10.4	
164 Benzyl chloride	91	12.571	12.571	0.000	99	268861	10.0	10.1	
165 1,3-Diethylbenzene	119	12.650	12.651	-0.001	95	195148	10.0	10.5	
166 p-Diethylbenzene	119	12.724	12.724	0.000	92	204202	10.0	10.5	
167 n-Butylbenzene	92	12.742	12.742	0.000	98	174106	10.0	10.6	
168 1,2-Dichlorobenzene	146	12.760	12.760	0.000	97	180381	10.0	10.4	
169 o-diethylbenzene	119	12.797	12.797	0.000	97	157063	10.0	10.2	
170 1,2-Dibromo-3-Chloropropane	75	13.321	13.321	0.000	81	38504	10.0	10.0	
171 1,3,5-Trichlorobenzene	180	13.455	13.455	0.000	97	121666	10.0	10.4	
173 1,2,4-Trichlorobenzene	180	13.894	13.888	0.006	93	119256	10.0	10.5	
175 2-Ethylhexyl acrylate	55	13.986	13.980	0.006	82	128160	10.0	9.67	
174 Hexachlorobutadiene	225	13.986	13.986	0.000	63	46356	10.0	10.5	
176 Naphthalene	128	14.071	14.071	0.000	97	467687	10.0	10.5	
177 1,2,3-Trichlorobenzene	180	14.223	14.217	0.006	95	115828	10.0	10.2	
178 2-Methylnaphthalene	142	14.815	14.815	0.000	92	236338	10.0	10.3	
S 182 Total Diethylbenzene	1				0			31.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_CYC_00010	Amount Added:	8.00	Units: uL	
MSV_CCV_GASES_00843	Amount Added:	1.00	Units: uL	
MSV_CCV_VOC#3_00189	Amount Added:	1.60	Units: uL	
MSV_CCV_2CEVE_00185	Amount Added:	2.00	Units: uL	
MSV_CCV_EE_00007	Amount Added:	2.00	Units: uL	
MSV_CCV_VOC#1_00193	Amount Added:	2.00	Units: uL	
MSV_CCV_OH_Sp_00012	Amount Added:	2.00	Units: uL	
MSV_Cent_ISSS_00029	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 24-Jul-2024 14:21:50 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X08.D

Injection Date: 23-Jul-2024 20:52:30 Instrument ID: 26285 Operator ID: gaw91131

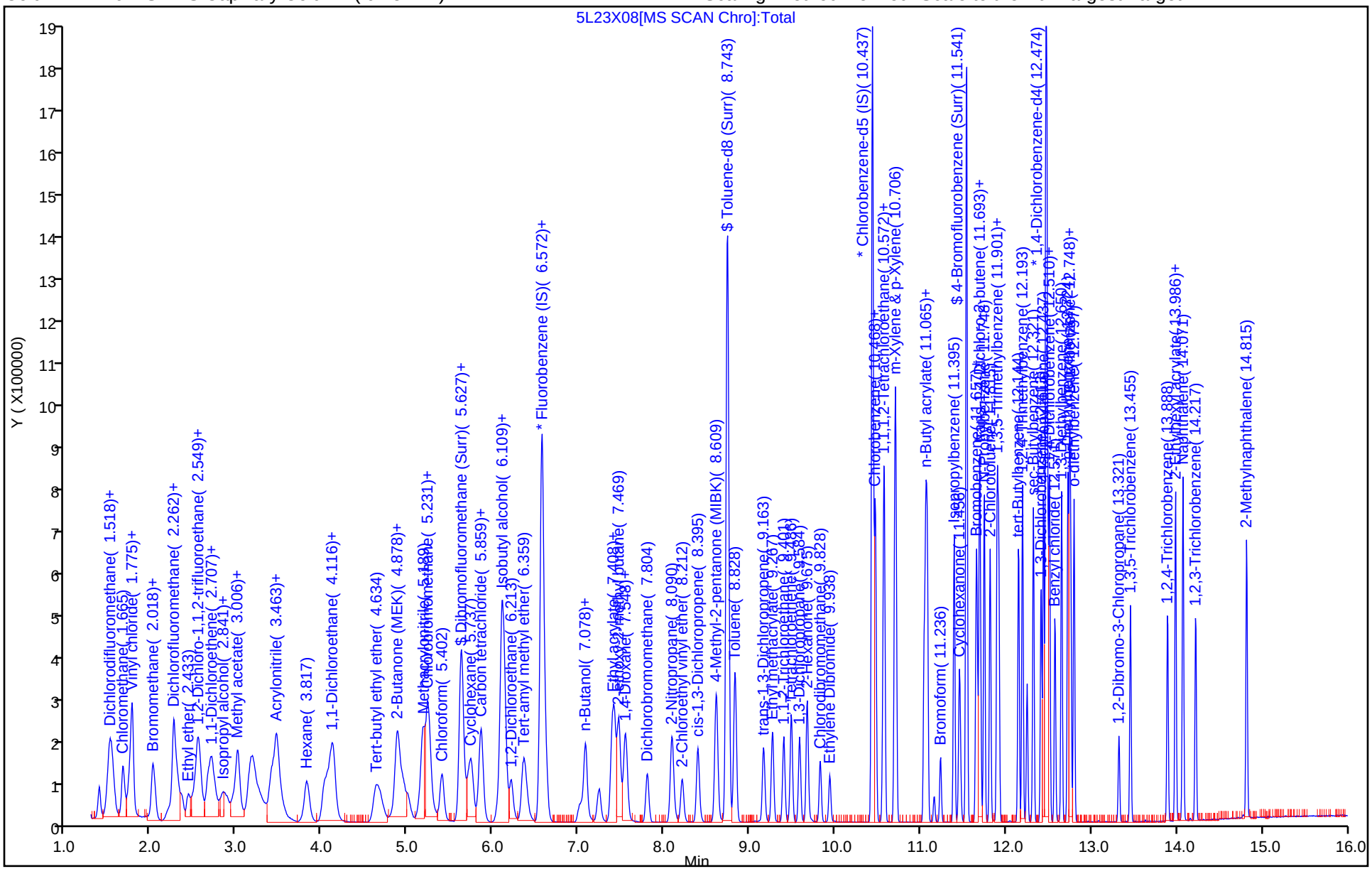
Lims ID: IC v10 Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: MSVoa_26285a Limit Group: MSV - 8260C_D

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

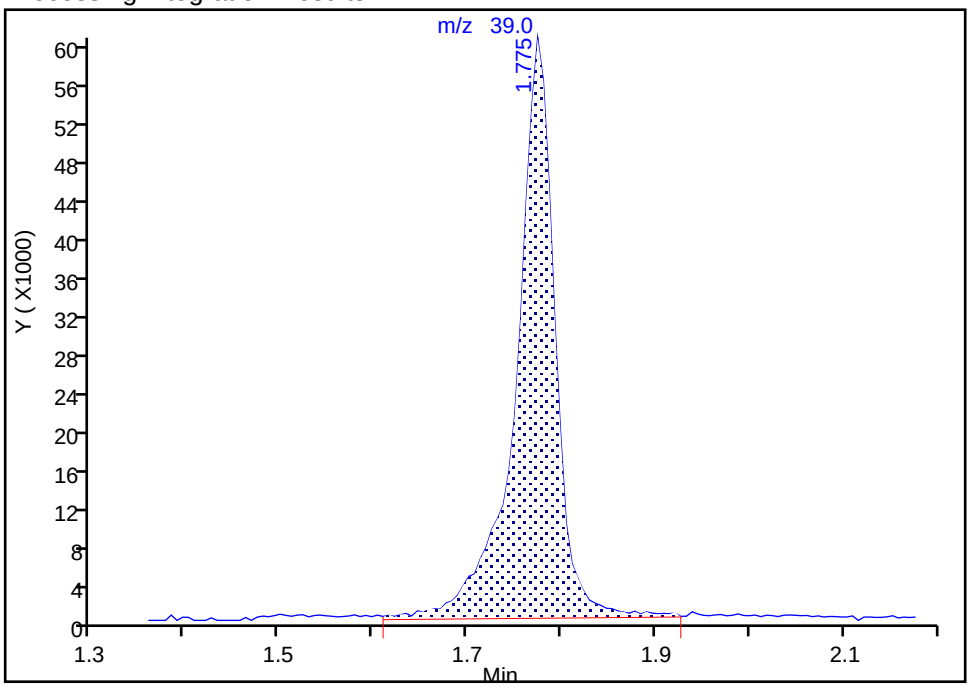
Data File:	\\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X08.D				
Injection Date:	23-Jul-2024 20:52:30	Instrument ID:	26285		
Lims ID:	IC v10				
Client ID:					
Operator ID:	gaw91131	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

6 Butadiene, CAS: 106-99-0

Signal: 1

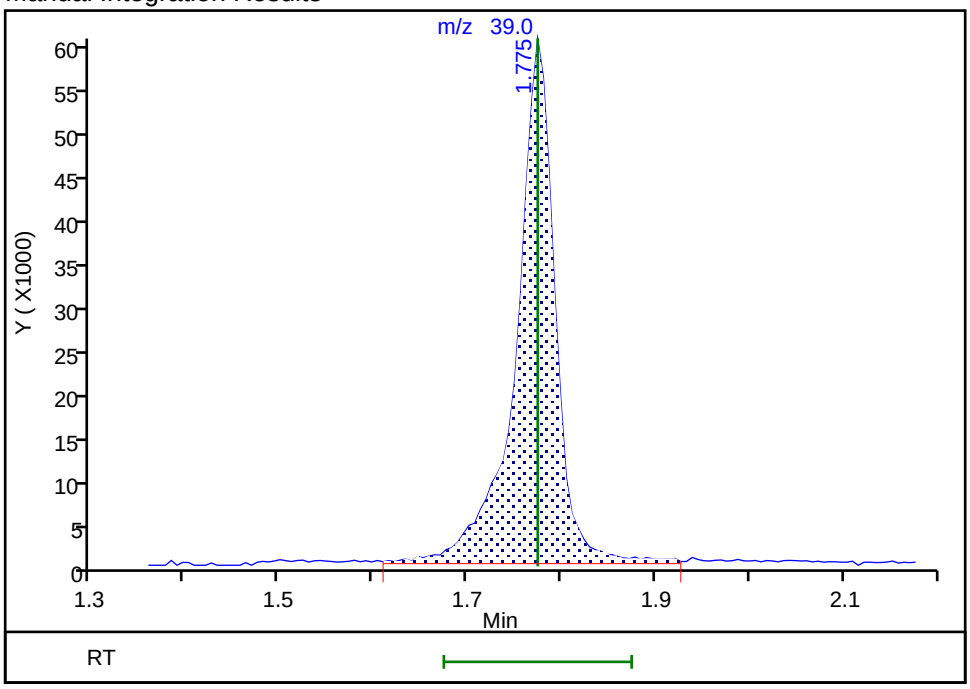
Processing Integration Results

RT: 1.77
Area: 174752
Amount: 11.614560
Amount Units: ug/l



Manual Integration Results

RT: 1.77
Area: 174471
Amount: 11.598979
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 11:18:05 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

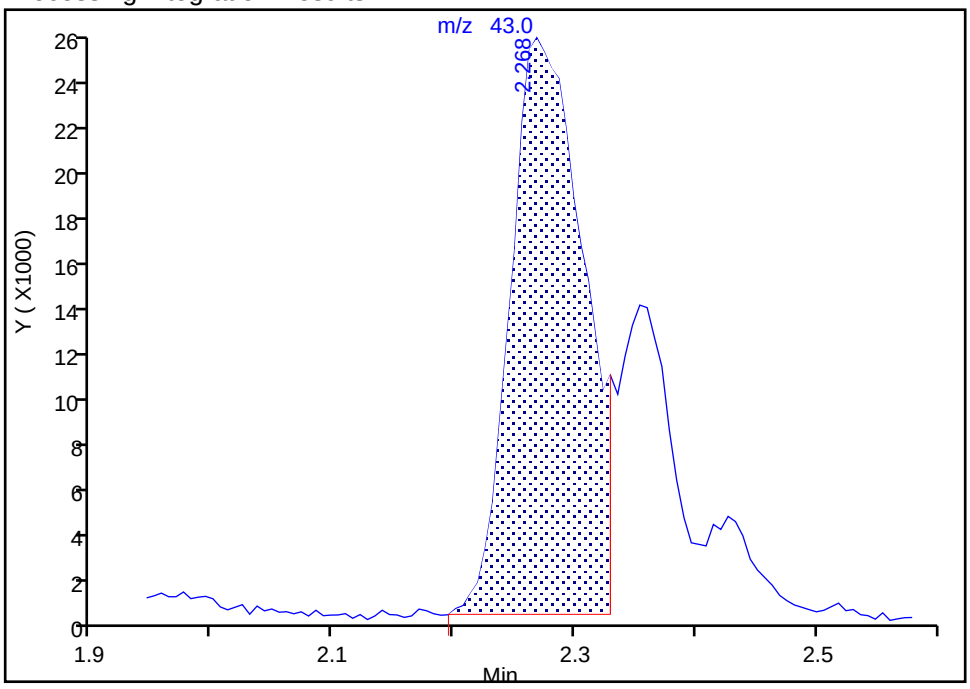
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X08.D
Injection Date: 23-Jul-2024 20:52:30 Instrument ID: 26285
Lims ID: IC v10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

12 Pentane, CAS: 109-66-0

Signal: 1

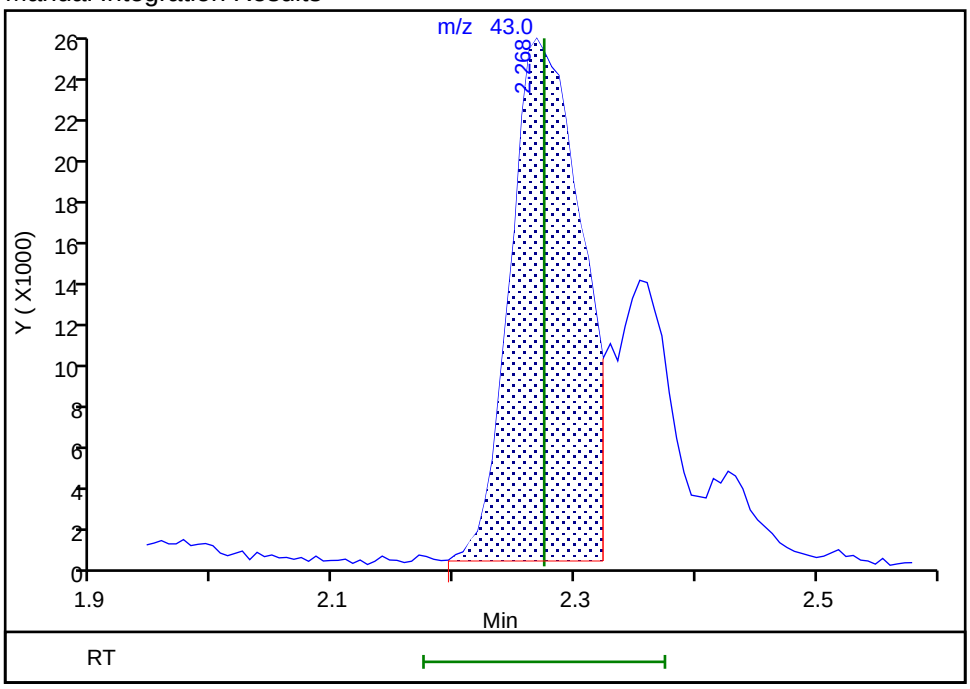
Processing Integration Results

RT: 2.27
Area: 106819
Amount: 10.303225
Amount Units: ug/l



Manual Integration Results

RT: 2.27
Area: 103009
Amount: 9.923464
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 11:18:29 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

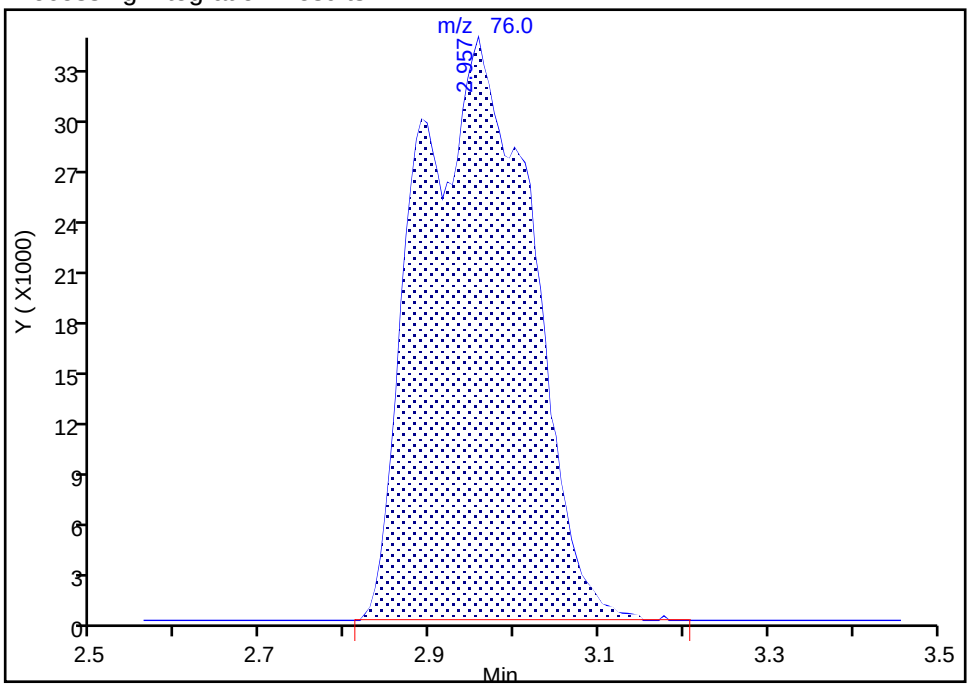
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X08.D
Injection Date: 23-Jul-2024 20:52:30 Instrument ID: 26285
Lims ID: IC v10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

22 Carbon disulfide, CAS: 75-15-0

Signal: 1

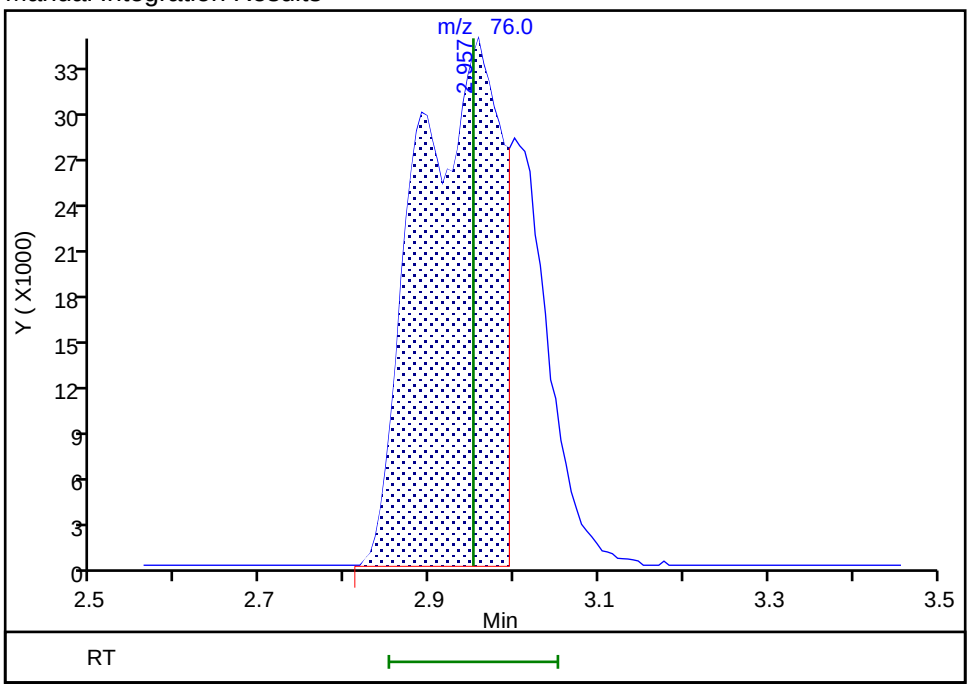
Processing Integration Results

RT: 2.96
Area: 322046
Amount: 10.714277
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 239878
Amount: 10.350926
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 11:18:50 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

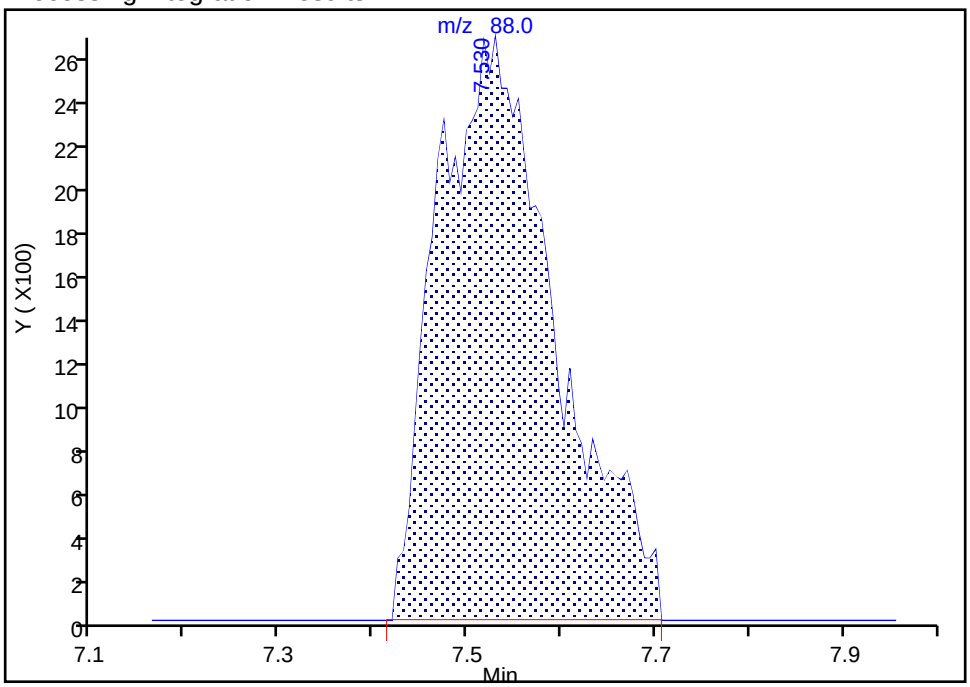
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X08.D
Injection Date: 23-Jul-2024 20:52:30 Instrument ID: 26285
Lims ID: IC v10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

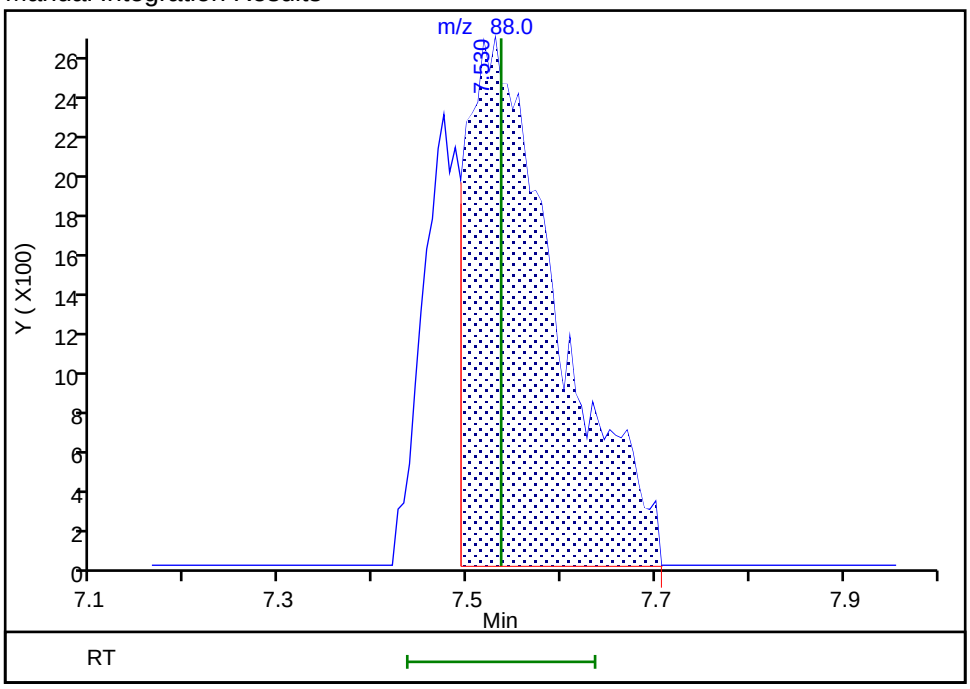
Processing Integration Results

RT: 7.53
Area: 23397
Amount: 142.9769
Amount Units: ug/l



Manual Integration Results

RT: 7.53
Area: 17876
Amount: 138.1607
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 11:19:33 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X09.D
Lims ID: IC v20
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Jul-2024 21:12:30 ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120132-015
Misc. Info.: IC V20
Operator ID: gaw91131 Instrument ID: 26285
Sublist: chrom-MSVoa_26285a*sub89

Method: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 24-Jul-2024 14:22:30 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1614

First Level Reviewer: ULCP Date: 24-Jul-2024 11:22:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.518	1.519	-0.001	99	262336	20.0	21.4	
4 Chloromethane	50	1.671	1.665	0.006	99	332568	20.0	21.0	
5 Vinyl chloride	62	1.756	1.750	0.006	98	276287	20.0	21.5	
6 Butadiene	39	1.774	1.775	-0.001	97	322960	20.0	21.6	
8 Bromomethane	94	2.018	2.012	0.006	91	181564	20.0	21.2	
9 Chloroethane	64	2.037	2.037	0.000	99	153162	20.0	21.3	
10 Dichlorofluoromethane	67	2.262	2.256	0.006	97	480859	20.0	21.1	
12 Pentane	43	2.274	2.275	-0.001	96	236700	20.0	23.0	
11 Trichlorofluoromethane	101	2.305	2.305	0.000	97	315044	20.0	21.4	
14 Ethyl ether	59	2.433	2.427	0.006	96	122143	20.0	22.5	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.524	2.518	0.006	95	249436	20.0	21.3	
16 Acrolein	56	2.561	2.555	0.006	99	700180	200.4	212.9	
17 1,1-Dichloroethene	96	2.677	2.677	0.000	95	147138	20.0	21.4	
18 Acetone	58	2.689	2.683	0.006	100	65274	40.0	44.2	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.719	2.713	0.006	94	169599	20.0	21.3	
21 Isopropyl alcohol	45	2.847	2.823	0.024	41	140559	100.0	103.1	
20 Iodomethane	142	2.841	2.835	0.006	99	296343	20.0	21.4	
22 Carbon disulfide	76	2.896	2.951	-0.055	100	490533	20.0	21.3	M
24 Methyl acetate	43	2.994	2.994	0.000	99	255965	20.0	22.3	
25 3-Chloro-1-propene	41	3.018	3.012	0.006	87	315641	20.0	20.6	
26 Methylene Chloride	84	3.177	3.177	0.000	98	186713	20.0	20.8	
* 27 t-Butyl alcohol-d10 (IS)	65	3.195	3.189	0.006	98	469567	250.0	250.0	
29 2-Methyl-2-propanol	59	3.280	3.280	0.000	99	267845	100.0	107.1	
30 Acrylonitrile	53	3.408	3.402	0.006	98	329231	50.0	54.6	
31 trans-1,2-Dichloroethene	96	3.469	3.463	0.006	94	165739	20.0	21.5	
32 Methyl tert-butyl ether	73	3.475	3.476	-0.001	97	571601	20.0	21.5	
33 Hexane	57	3.823	3.817	0.006	96	212545	20.0	20.9	
34 1,1-Dichloroethane	63	4.030	4.018	0.012	96	336037	20.0	21.7	
36 Isopropyl ether	45	4.091	4.091	0.000	97	636268	20.0	21.4	
37 2-Chloro-1,3-butadiene	53	4.134	4.122	0.012	93	289216	20.0	21.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	4.646	4.652	-0.006	99	593475	20.0	21.7	
39 2-Butanone (MEK)	43	4.871	4.865	0.006	99	341906	40.0	40.7	
40 cis-1,2-Dichloroethene	96	4.884	4.884	0.000	86	192871	20.0	21.5	
41 2,2-Dichloropropane	77	4.914	4.902	0.012	93	272104	20.0	21.4	
43 Propionitrile	54	4.951	4.951	0.000	95	256782	100.0	106.9	
44 Methyl acrylate	55	5.005	5.006	-0.001	99	303397	20.0	21.3	
45 Methacrylonitrile	67	5.176	5.170	0.006	95	289327	50.0	53.4	
46 Chlorobromomethane	128	5.237	5.225	0.012	94	92682	20.0	21.7	
47 Tetrahydrofuran	71	5.243	5.243	0.000	93	228711	100.0	108.7	
48 Chloroform	83	5.408	5.402	0.006	94	322991	20.0	21.5	
$ 49 Dibromofluoromethane (Surr)	113	5.633	5.628	0.005	93	344796	50.0	50.0	
50 1,1,1-Trichloroethane	97	5.633	5.634	-0.001	65	268914	20.0	21.4	
51 Cyclohexane	56	5.743	5.737	0.006	96	319688	20.0	21.1	
52 Carbon tetrachloride	117	5.859	5.853	0.006	73	224880	20.0	21.6	
53 1,1-Dichloropropene	75	5.865	5.859	0.006	93	248423	20.0	21.5	
55 Isobutyl alcohol	41	6.091	6.085	0.006	93	204552	250.0	259.0	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.109	6.097	0.012	88	75858	50.0	50.1	
57 Benzene	78	6.133	6.134	-0.001	97	717046	20.0	21.3	
S 54 1,2-Dichloroethene, Total	100				0			42.9	
58 1,2-Dichloroethane	62	6.213	6.213	0.000	97	260607	20.0	21.6	
60 Tert-amyl methyl ether	73	6.365	6.359	0.006	98	551318	20.0	21.5	
* 61 Fluorobenzene (IS)	96	6.572	6.572	0.000	98	1310606	50.0	50.0	
62 n-Heptane	43	6.615	6.609	0.006	97	201533	20.0	19.3	
63 n-Butanol	56	7.036	7.030	0.006	93	138380	250.0	264.5	
64 Trichloroethene	95	7.084	7.078	0.006	97	183129	20.0	21.5	
66 Methylcyclohexane	83	7.401	7.395	0.006	91	271298	20.0	20.7	
65 Ethyl acrylate	55	7.395	7.402	-0.007	87	238419	20.0	20.8	M
67 1,2-Dichloropropane	63	7.426	7.420	0.006	98	193495	20.0	21.3	
68 2-ethoxy-2-methyl butane	87	7.475	7.475	-0.001	90	254579	20.0	21.6	
69 1,4-Dioxane	88	7.542	7.536	0.006	30	34490	250.0	270.0	M
70 Dibromomethane	93	7.542	7.536	0.006	96	122278	20.0	21.4	
71 Methyl methacrylate	69	7.560	7.560	0.000	92	167137	20.0	21.9	
74 Dichlorobromomethane	83	7.810	7.804	0.006	98	228982	20.0	21.4	
75 2-Nitropropane	41	8.096	8.090	0.006	98	431554	100.0	108.0	
76 2-Chloroethyl vinyl ether	63	8.212	8.212	0.000	92	144887	20.0	22.3	
77 cis-1,3-Dichloropropene	75	8.395	8.395	0.000	94	290792	20.0	21.6	
78 4-Methyl-2-pentanone (MIBK)	43	8.615	8.609	0.006	98	683902	40.0	42.6	
$ 79 Toluene-d8 (Surr)	98	8.743	8.743	0.000	94	1251221	50.0	50.1	
80 Toluene	92	8.834	8.828	0.006	98	419865	20.0	21.3	
84 trans-1,3-Dichloropropene	75	9.163	9.163	0.000	96	259429	20.0	21.3	
85 Ethyl methacrylate	69	9.267	9.267	0.000	91	290133	20.0	22.0	
86 1,1,2-Trichloroethane	97	9.401	9.401	0.000	91	156710	20.0	21.6	
87 Tetrachloroethene	166	9.492	9.493	-0.001	95	176417	20.0	21.5	
88 1,3-Dichloropropane	76	9.584	9.584	0.000	95	262347	20.0	21.4	
90 2-Hexanone	43	9.675	9.676	-0.001	99	485540	40.0	42.8	
91 Chlorodibromomethane	129	9.828	9.828	0.000	90	170928	20.0	21.5	
96 Ethylene Dibromide	107	9.937	9.938	-0.001	98	169924	20.0	21.6	
S 97 1,3-Dichloropropene, Total	100				0			42.9	
* 98 Chlorobenzene-d5 (IS)	117	10.437	10.438	-0.001	87	950952	50.0	50.0	
99 Chlorobenzene	112	10.468	10.468	0.000	95	461725	20.0	21.5	
100 1-Chlorohexane	91	10.474	10.474	0.000	95	222948	20.0	21.7	
128 1,1,1,2-Tetrachloroethane	131	10.565	10.566	-0.001	95	170412	20.0	21.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
129 Ethylbenzene	91	10.578	10.578	0.000	99	865098	20.0	21.6	
130 m-Xylene & p-Xylene	106	10.706	10.706	0.000	99	646320	40.0	43.2	
131 n-Butyl acrylate	55	11.041	11.041	0.000	95	472624	20.0	22.2	
132 o-Xylene	106	11.065	11.059	0.006	97	331746	20.0	21.9	
133 Styrene	104	11.077	11.078	-0.001	94	526985	20.0	21.8	
135 Bromoform	173	11.236	11.236	0.000	96	133963	20.0	21.2	
S 134 Xylenes, Total	106				0			65.1	
136 Isopropylbenzene	105	11.394	11.395	-0.001	96	758738	20.0	21.7	
137 Cyclohexanone	55	11.455	11.456	-0.001	95	292291	500.0	552.2	
$ 140 4-Bromofluorobenzene (Surr)	95	11.541	11.535	0.006	90	506455	50.0	50.2	
143 Bromobenzene	156	11.651	11.651	0.000	95	203705	20.0	21.7	
144 1,1,2,2-Tetrachloroethane	83	11.663	11.663	0.000	93	306072	20.0	21.8	
145 trans-1,4-Dichloro-2-butene	53	11.687	11.687	0.000	90	238529	50.0	54.9	
146 1,2,3-Trichloropropane	110	11.699	11.700	-0.001	86	82334	20.0	21.9	
147 N-Propylbenzene	91	11.748	11.748	0.000	99	1011810	20.0	21.9	
148 2-Chlorotoluene	126	11.815	11.815	0.000	96	195181	20.0	21.4	
149 1,3,5-Trimethylbenzene	105	11.894	11.895	-0.001	94	675490	20.0	21.4	
150 4-Chlorotoluene	126	11.919	11.913	0.006	99	192538	20.0	21.7	
152 tert-Butylbenzene	134	12.150	12.145	0.005	93	114571	20.0	21.2	
154 1,2,4-Trimethylbenzene	105	12.193	12.193	0.000	98	699957	20.0	21.4	
155 sec-Butylbenzene	105	12.321	12.321	0.000	95	805461	20.0	21.3	
156 1,3-Dichlorobenzene	146	12.413	12.413	0.000	98	368671	20.0	21.5	
157 4-Isopropyltoluene	119	12.437	12.437	0.000	97	677553	20.0	21.0	
* 158 1,4-Dichlorobenzene-d4	152	12.474	12.474	0.000	95	537374	50.0	50.0	
159 1,4-Dichlorobenzene	146	12.492	12.492	0.000	96	367809	20.0	21.1	
160 1,2,3-Trimethylbenzene	105	12.510	12.510	0.000	99	714863	20.0	21.4	
164 Benzyl chloride	91	12.571	12.571	0.000	99	576621	20.0	21.7	
165 1,3-Diethylbenzene	119	12.650	12.651	-0.001	95	391875	20.0	21.1	
166 p-Diethylbenzene	119	12.723	12.724	-0.001	93	406038	20.0	21.1	
167 n-Butylbenzene	92	12.742	12.742	0.000	98	341275	20.0	20.9	
168 1,2-Dichlorobenzene	146	12.760	12.760	0.000	97	371912	20.0	21.5	
169 o-diethylbenzene	119	12.797	12.797	0.000	97	319874	20.0	21.0	
170 1,2-Dibromo-3-Chloropropane	75	13.321	13.321	0.000	82	81675	20.0	21.4	
171 1,3,5-Trichlorobenzene	180	13.455	13.455	0.000	97	244937	20.0	21.0	
173 1,2,4-Trichlorobenzene	180	13.894	13.888	0.006	93	240739	20.0	21.3	
175 2-Ethylhexyl acrylate	55	13.985	13.980	0.005	82	296000	20.0	22.5	
174 Hexachlorobutadiene	225	13.985	13.986	-0.001	61	89679	20.0	20.3	
176 Naphthalene	128	14.071	14.071	0.000	97	980392	20.0	22.2	
177 1,2,3-Trichlorobenzene	180	14.217	14.217	0.000	95	239838	20.0	21.3	
178 2-Methylnaphthalene	142	14.815	14.815	0.000	92	500921	20.0	21.9	
S 182 Total Diethylbenzene	1				0			63.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_CYC_00010	Amount Added:	16.00	Units: uL	
MSV_CCV_GASES_00843	Amount Added:	2.00	Units: uL	
MSV_CCV_VOC#3_00189	Amount Added:	3.20	Units: uL	
MSV_CCV_2CEVE_00185	Amount Added:	4.00	Units: uL	
MSV_CCV_EE_00007	Amount Added:	4.00	Units: uL	
MSV_CCV_VOC#1_00193	Amount Added:	4.00	Units: uL	
MSV_CCV_OH_Sp_00012	Amount Added:	4.00	Units: uL	
MSV_Cent_ISSS_00029	Amount Added:	5.00	Units: uL	Run Reagent

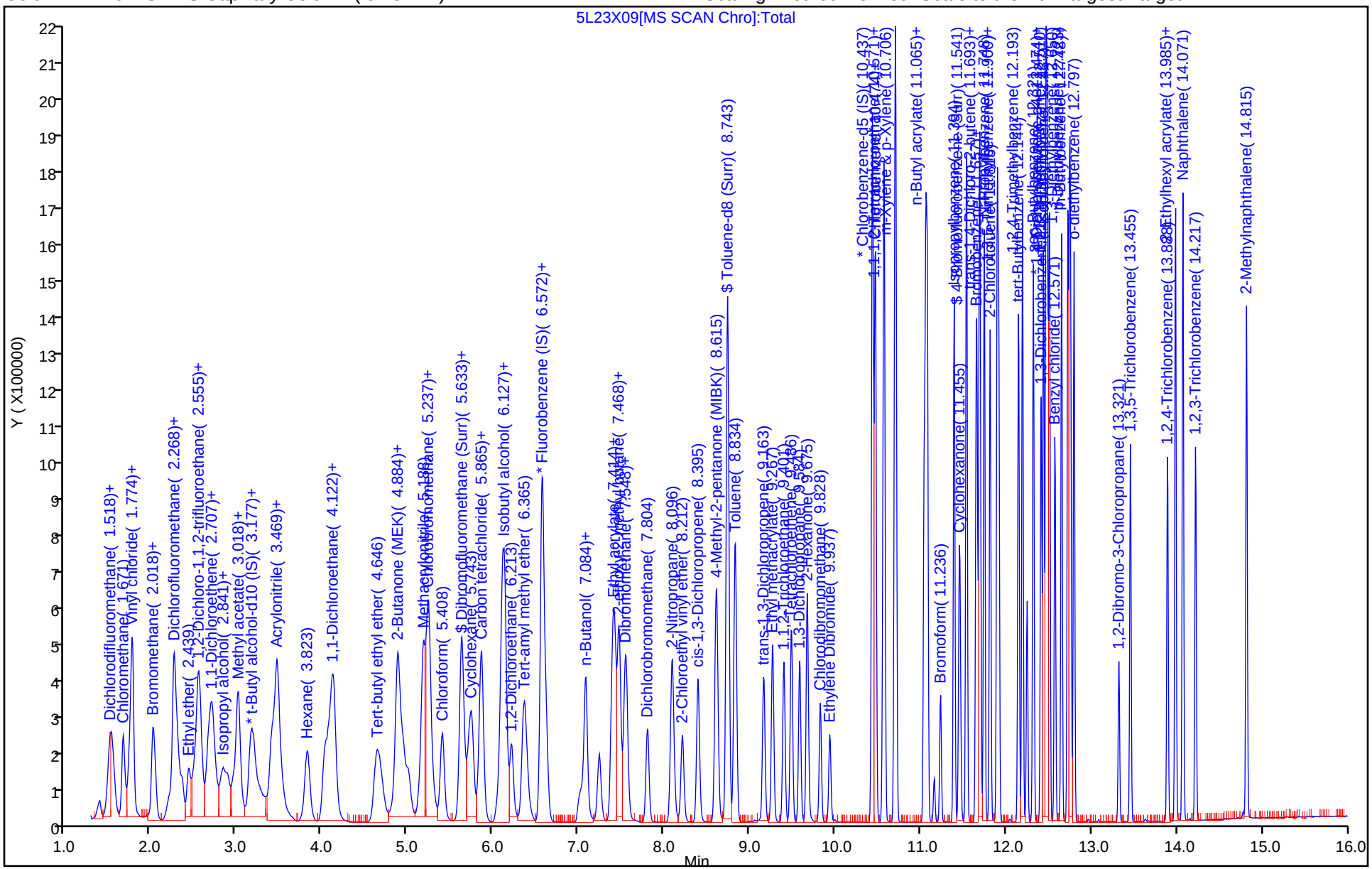
Report Date: 24-Jul-2024 14:22:34 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X09.D

Injection Date:	23-Jul-2024 21:12:30	Instrument ID:	26285	Operator ID:	gaw91131
Lims ID:	IC v20			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

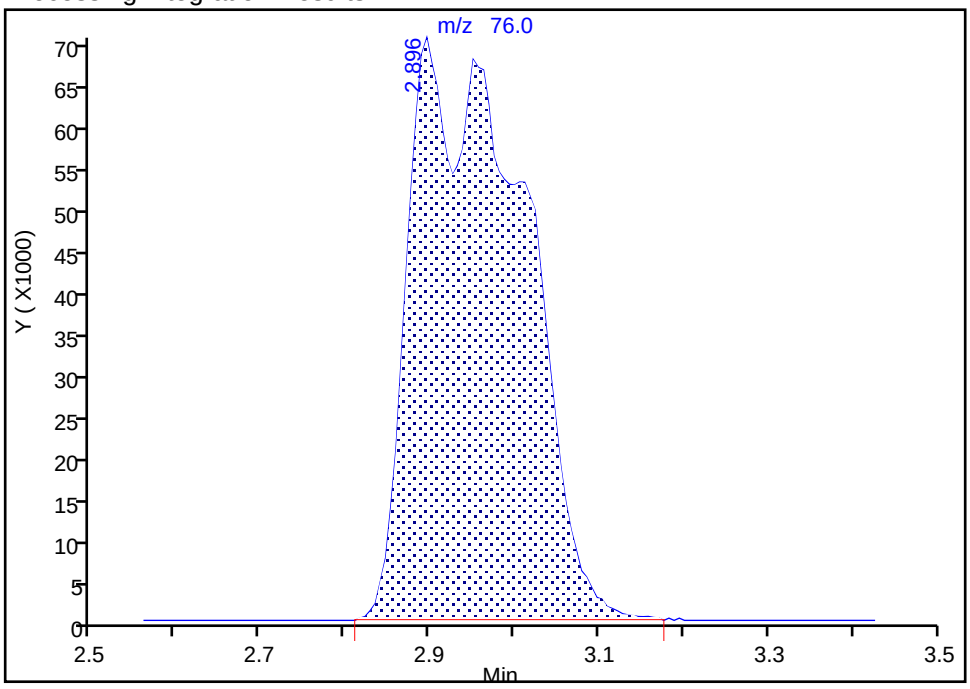
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X09.D
Injection Date: 23-Jul-2024 21:12:30 Instrument ID: 26285
Lims ID: IC v20
Client ID:
Operator ID: gaw91131 ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

22 Carbon disulfide, CAS: 75-15-0

Signal: 1

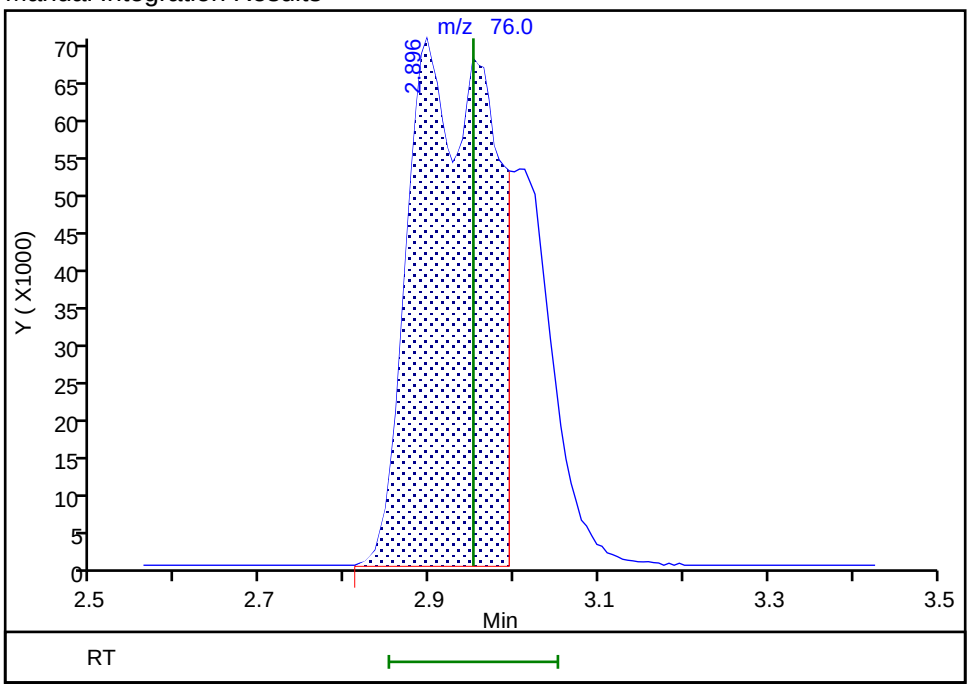
Processing Integration Results

RT: 2.90
Area: 665448
Amount: 24.852342
Amount Units: ug/l



Manual Integration Results

RT: 2.90
Area: 490533
Amount: 21.315779
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 11:22:42 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

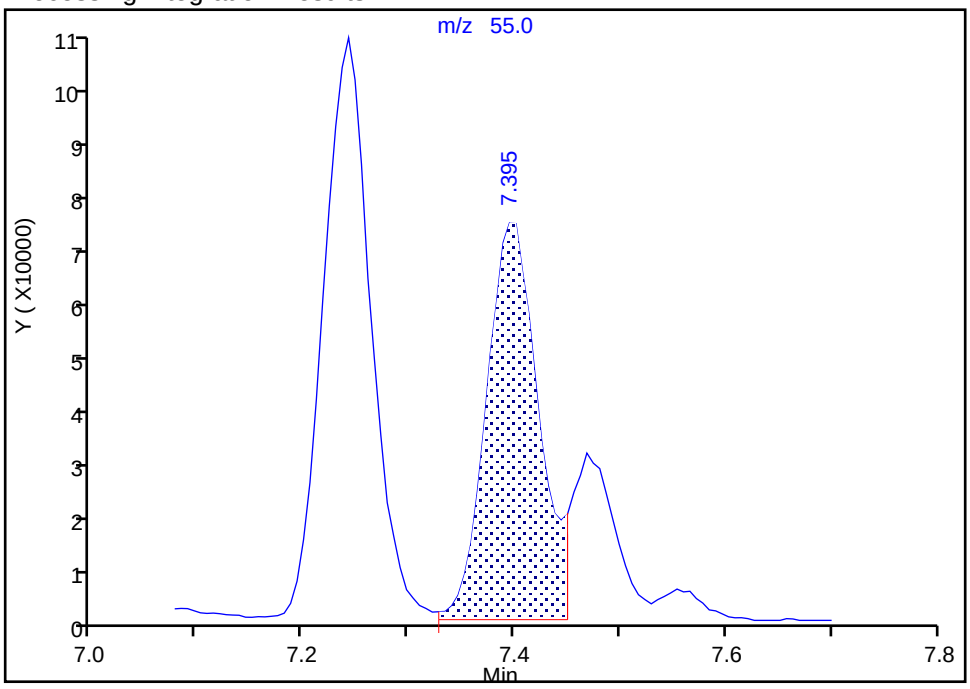
Data File:	\\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X09.D				
Injection Date:	23-Jul-2024 21:12:30	Instrument ID:	26285		
Lims ID:	IC v20				
Client ID:					
Operator ID:	gaw91131	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 Ethyl acrylate, CAS: 140-88-5

Signal: 1

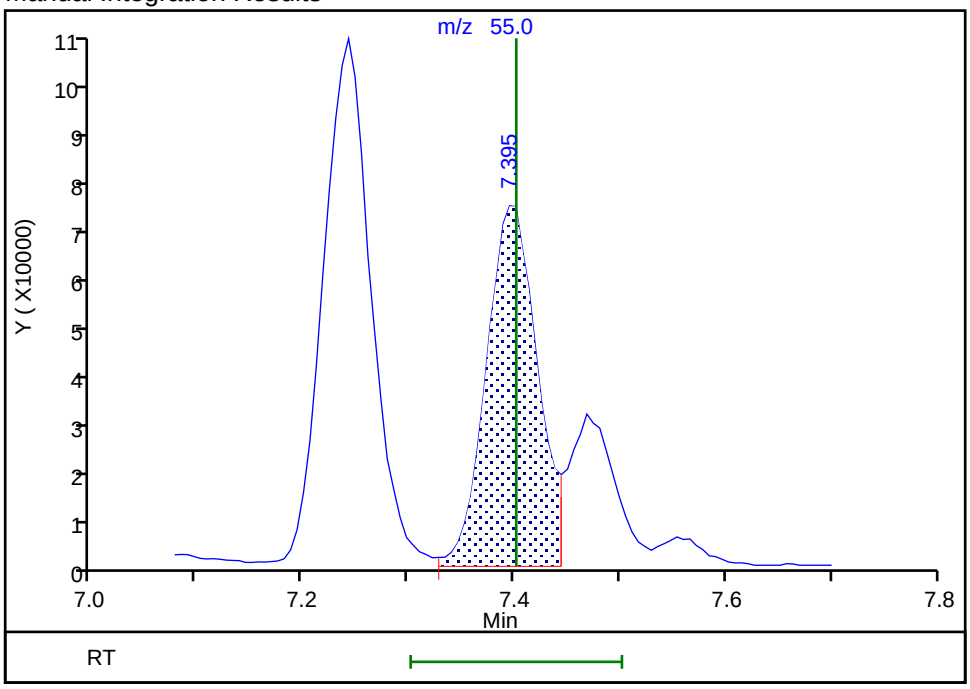
Processing Integration Results

RT: 7.40
Area: 245318
Amount: 21.235907
Amount Units: ug/l



Manual Integration Results

RT: 7.40
Area: 238419
Amount: 20.840722
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 11:21:56 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

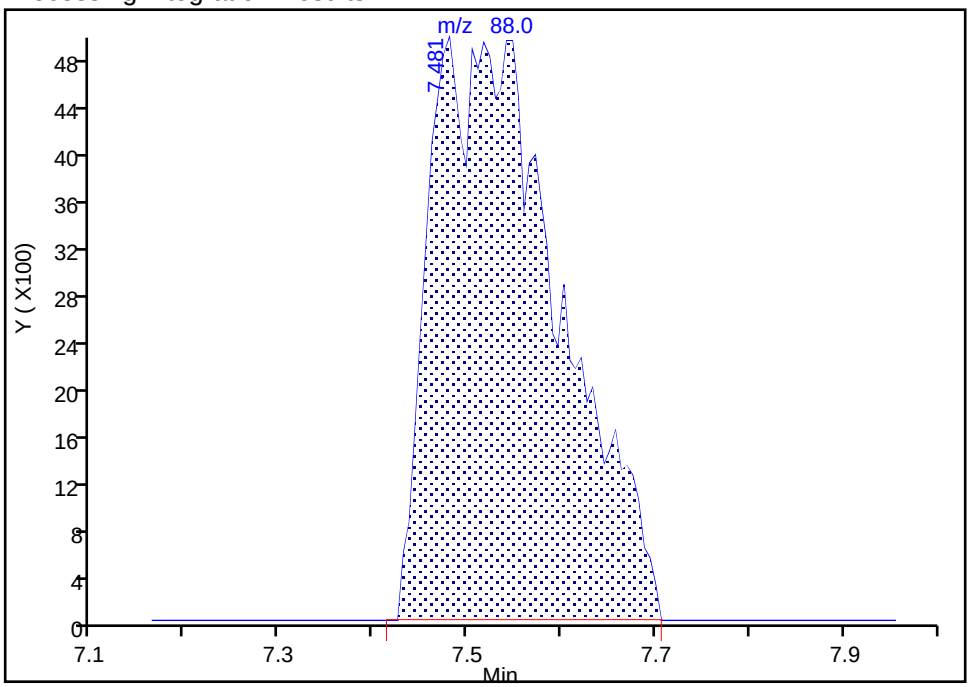
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X09.D
Injection Date: 23-Jul-2024 21:12:30 Instrument ID: 26285
Lims ID: IC v20
Client ID:
Operator ID: gaw91131 ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

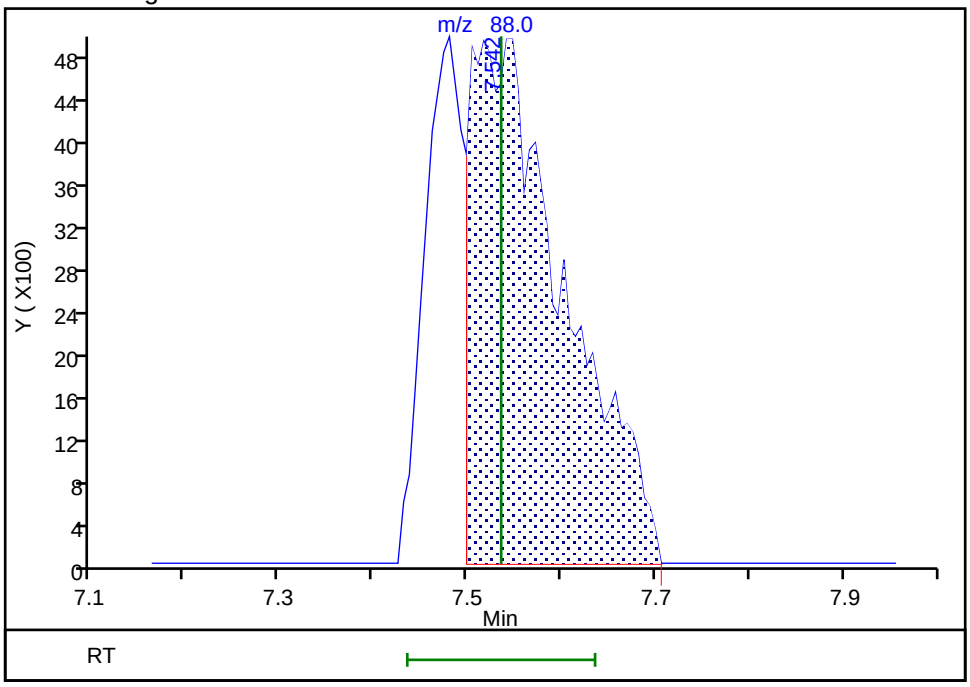
Processing Integration Results

RT: 7.48
Area: 47467
Amount: 293.5070
Amount Units: ug/l



Manual Integration Results

RT: 7.54
Area: 34490
Amount: 270.0218
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 11:21:29 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X10.D
Lims ID: ICIS v50
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 23-Jul-2024 21:32:30 ALS Bottle#: 10 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120132-016
Misc. Info.: ICIS V50
Operator ID: gaw91131 Instrument ID: 26285
Sublist: chrom-MSVoa_26285a*sub89

Method: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 24-Jul-2024 14:23:28 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1614

First Level Reviewer: ULCP Date: 24-Jul-2024 06:37:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.519	1.519	0.000	99	688350	50.0	54.7	
4 Chloromethane	50	1.665	1.665	0.000	99	827922	50.0	50.8	
5 Vinyl chloride	62	1.750	1.750	0.000	98	684400	50.0	51.8	
6 Butadiene	39	1.775	1.775	0.000	97	813174	50.0	53.0	
8 Bromomethane	94	2.012	2.012	0.000	92	454526	50.0	51.7	
9 Chloroethane	64	2.037	2.037	0.000	99	377777	50.0	51.1	
10 Dichlorofluoromethane	67	2.256	2.256	0.000	98	1191385	50.0	50.9	
12 Pentane	43	2.275	2.275	0.000	95	540961	50.0	51.0	
11 Trichlorofluoromethane	101	2.305	2.305	0.000	97	818951	50.0	54.2	
14 Ethyl ether	59	2.427	2.427	0.000	96	277127	50.0	49.6	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.518	2.518	0.000	95	620841	50.0	51.6	
16 Acrolein	56	2.555	2.555	0.000	99	1666746	501.1	496.0	
17 1,1-Dichloroethene	96	2.677	2.677	0.000	95	345063	50.0	48.8	
18 Acetone	58	2.683	2.683	0.000	95	153834	100.0	101.9	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.713	2.713	0.000	94	414993	50.0	50.8	
21 Isopropyl alcohol	45	2.823	2.823	0.000	98	323844	250.0	232.4	M
20 Iodomethane	142	2.835	2.835	0.000	100	694329	50.0	48.9	
22 Carbon disulfide	76	2.951	2.951	0.000	100	1136949	50.0	48.1	M
24 Methyl acetate	43	2.994	2.994	0.000	99	589602	50.0	49.9	
25 3-Chloro-1-propene	41	3.012	3.012	0.000	87	740832	50.0	47.1	
26 Methylene Chloride	84	3.177	3.177	0.000	98	435713	50.0	47.2	
* 27 t-Butyl alcohol-d10 (IS)	65	3.189	3.189	0.000	95	479829	250.0	250.0	
29 2-Methyl-2-propanol	59	3.280	3.280	0.000	99	609579	250.0	238.5	
30 Acrylonitrile	53	3.402	3.402	0.000	97	738864	125.0	119.1	
31 trans-1,2-Dichloroethene	96	3.463	3.463	0.000	94	385961	50.0	48.6	
32 Methyl tert-butyl ether	73	3.476	3.476	0.000	96	1323271	50.0	48.4	
33 Hexane	57	3.817	3.817	0.000	96	538863	50.0	51.5	
34 1,1-Dichloroethane	63	4.018	4.018	0.000	96	778743	50.0	49.0	
36 Isopropyl ether	45	4.091	4.091	0.000	96	1487330	50.0	48.6	
37 2-Chloro-1,3-butadiene	53	4.122	4.122	0.000	93	671362	50.0	49.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	4.652	4.652	0.000	100	1376088	50.0	48.9	
39 2-Butanone (MEK)	43	4.865	4.865	0.000	99	811204	100.0	94.0	
40 cis-1,2-Dichloroethene	96	4.884	4.884	0.000	85	446795	50.0	48.3	
41 2,2-Dichloropropane	77	4.902	4.902	0.000	89	634868	50.0	48.5	
43 Propionitrile	54	4.951	4.951	0.000	97	609491	250.0	248.2	
44 Methyl acrylate	55	5.006	5.006	0.000	99	707934	50.0	48.3	
45 Methacrylonitrile	67	5.170	5.170	0.000	97	666051	125.0	119.6	
46 Chlorobromomethane	128	5.225	5.225	0.000	93	211055	50.0	48.1	
47 Tetrahydrofuran	71	5.243	5.243	0.000	91	519107	250.0	241.4	
48 Chloroform	83	5.402	5.402	0.000	95	747326	50.0	48.4	
$ 49 Dibromofluoromethane (Surr)	113	5.628	5.628	0.000	93	354047	50.0	49.9	
50 1,1,1-Trichloroethane	97	5.634	5.634	0.000	99	636292	50.0	49.3	
51 Cyclohexane	56	5.737	5.737	0.000	95	783439	50.0	50.4	
52 Carbon tetrachloride	117	5.853	5.853	0.000	94	535757	50.0	50.0	
53 1,1-Dichloropropene	75	5.859	5.859	0.000	94	587770	50.0	49.4	
55 Isobutyl alcohol	41	6.085	6.085	0.000	94	452938	625.0	561.2	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.097	6.097	0.000	91	77705	50.0	50.0	
57 Benzene	78	6.134	6.134	0.000	98	1676325	50.0	48.3	
58 1,2-Dichloroethane	62	6.213	6.213	0.000	97	587937	50.0	47.4	
60 Tert-amyl methyl ether	73	6.359	6.359	0.000	98	1290949	50.0	49.0	
* 61 Fluorobenzene (IS)	96	6.572	6.572	0.000	99	1347341	50.0	50.0	
62 n-Heptane	43	6.609	6.609	0.000	97	519957	50.0	48.5	
63 n-Butanol	56	7.030	7.030	0.000	94	325645	625.0	609.0	
64 Trichloroethene	95	7.078	7.078	0.000	97	427870	50.0	48.8	
66 Methylcyclohexane	83	7.395	7.395	0.000	93	685968	50.0	51.0	
65 Ethyl acrylate	55	7.402	7.402	0.000	86	623164	50.0	53.0	
67 1,2-Dichloropropane	63	7.420	7.420	0.000	97	455501	50.0	48.8	
68 2-ethoxy-2-methyl butane	87	7.475	7.475	0.000	90	602318	50.0	49.7	
69 1,4-Dioxane	88	7.536	7.536	0.000	35	86055	625.0	644.8	
70 Dibromomethane	93	7.536	7.536	0.000	97	284348	50.0	48.4	
71 Methyl methacrylate	69	7.560	7.560	0.000	93	385828	50.0	49.2	
74 Dichlorobromomethane	83	7.804	7.804	0.000	98	548252	50.0	49.8	
75 2-Nitropropane	41	8.090	8.090	0.000	98	997277	250.0	244.3	
76 2-Chloroethyl vinyl ether	63	8.212	8.212	0.000	92	328817	50.0	49.2	
77 cis-1,3-Dichloropropene	75	8.395	8.395	0.000	93	692716	50.0	50.0	
78 4-Methyl-2-pentanone (MIBK)	43	8.609	8.609	0.000	98	1644437	100.0	99.8	
$ 79 Toluene-d8 (Surr)	98	8.743	8.743	0.000	94	1294281	50.0	50.2	
80 Toluene	92	8.828	8.828	0.000	98	996969	50.0	49.0	
84 trans-1,3-Dichloropropene	75	9.163	9.163	0.000	96	619676	50.0	49.4	
85 Ethyl methacrylate	69	9.267	9.267	0.000	91	674711	50.0	49.5	
86 1,1,2-Trichloroethane	97	9.401	9.401	0.000	91	367905	50.0	49.2	
87 Tetrachloroethene	166	9.493	9.493	0.000	96	422091	50.0	49.9	
88 1,3-Dichloropropane	76	9.584	9.584	0.000	95	613798	50.0	48.5	
90 2-Hexanone	43	9.676	9.676	0.000	99	1162043	100.0	99.4	
91 Chlorodibromomethane	129	9.828	9.828	0.000	90	412543	50.0	50.3	
96 Ethylene Dibromide	107	9.938	9.938	0.000	98	395411	50.0	48.7	
* 98 Chlorobenzene-d5 (IS)	117	10.438	10.438	0.000	86	981206	50.0	50.0	
99 Chlorobenzene	112	10.468	10.468	0.000	93	1087487	50.0	49.1	
100 1-Chlorohexane	91	10.474	10.474	0.000	95	522688	50.0	49.3	
128 1,1,1,2-Tetrachloroethane	131	10.566	10.566	0.000	95	412859	50.0	50.3	
129 Ethylbenzene	91	10.578	10.578	0.000	99	2048936	50.0	49.6	
130 m-Xylene & p-Xylene	106	10.706	10.706	0.000	98	1515455	100.0	98.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
131 n-Butyl acrylate	55	11.041	11.041	0.000	95	1105011	50.0	50.4	
132 o-Xylene	106	11.059	11.059	0.000	98	776787	50.0	49.6	
133 Styrene	104	11.078	11.078	0.000	95	1240550	50.0	49.8	
135 Bromoform	173	11.236	11.236	0.000	97	322377	50.0	49.4	
136 Isopropylbenzene	105	11.395	11.395	0.000	96	1812271	50.0	50.2	
137 Cyclohexanone	55	11.456	11.456	0.000	95	341897	625.0	632.1	
$ 140 4-Bromofluorobenzene (Surr)	95	11.535	11.535	0.000	89	514652	50.0	49.5	
143 Bromobenzene	156	11.651	11.651	0.000	95	469522	50.0	49.1	
144 1,1,2,2-Tetrachloroethane	83	11.663	11.663	0.000	93	713552	50.0	49.8	
145 trans-1,4-Dichloro-2-butene	53	11.687	11.687	0.000	87	551188	125.0	124.6	
146 1,2,3-Trichloropropane	110	11.700	11.700	0.000	86	188007	50.0	49.1	
147 N-Propylbenzene	91	11.748	11.748	0.000	99	2395189	50.0	50.9	
148 2-Chlorotoluene	126	11.815	11.815	0.000	95	456936	50.0	49.4	
149 1,3,5-Trimethylbenzene	105	11.895	11.895	0.000	95	1638700	50.0	51.0	
150 4-Chlorotoluene	126	11.913	11.913	0.000	99	447454	50.0	49.5	
152 tert-Butylbenzene	134	12.145	12.145	0.000	93	285141	50.0	51.7	
154 1,2,4-Trimethylbenzene	105	12.193	12.193	0.000	98	1674614	50.0	50.3	
155 sec-Butylbenzene	105	12.321	12.321	0.000	95	1978145	50.0	51.5	
156 1,3-Dichlorobenzene	146	12.413	12.413	0.000	98	864927	50.0	49.6	
157 4-Isopropyltoluene	119	12.437	12.437	0.000	97	1668295	50.0	50.9	
* 158 1,4-Dichlorobenzene-d4	152	12.474	12.474	0.000	94	546736	50.0	50.0	
159 1,4-Dichlorobenzene	146	12.492	12.492	0.000	94	869586	50.0	49.0	
160 1,2,3-Trimethylbenzene	105	12.510	12.510	0.000	99	1720173	50.0	50.6	
164 Benzyl chloride	91	12.571	12.571	0.000	99	1360216	50.0	50.3	
165 1,3-Diethylbenzene	119	12.651	12.651	0.000	95	955923	50.0	50.6	
166 p-Diethylbenzene	119	12.724	12.724	0.000	93	989278	50.0	50.5	
167 n-Butylbenzene	92	12.742	12.742	0.000	98	837227	50.0	50.4	
168 1,2-Dichlorobenzene	146	12.760	12.760	0.000	97	863894	50.0	49.0	
169 o-diethylbenzene	119	12.797	12.797	0.000	97	782692	50.0	50.4	
170 1,2-Dibromo-3-Chloropropane	75	13.321	13.321	0.000	82	193025	50.0	49.7	
171 1,3,5-Trichlorobenzene	180	13.455	13.455	0.000	97	592263	50.0	49.9	
173 1,2,4-Trichlorobenzene	180	13.888	13.888	0.000	94	571094	50.0	49.6	
175 2-Ethylhexyl acrylate	55	13.980	13.980	0.000	82	724284	50.0	54.0	
174 Hexachlorobutadiene	225	13.986	13.986	0.000	61	220705	50.0	49.2	
176 Naphthalene	128	14.071	14.071	0.000	97	2268645	50.0	50.4	
177 1,2,3-Trichlorobenzene	180	14.217	14.217	0.000	95	570282	50.0	49.8	
178 2-Methylnaphthalene	142	14.815	14.815	0.000	92	1193457	50.0	51.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_CYC_00010	Amount Added:	10.00	Units: uL	
MSV_CCV_GASES_00843	Amount Added:	2.50	Units: uL	
MSV_CCV_VOC#3_00189	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00185	Amount Added:	5.00	Units: uL	
MSV_CCV_EE_00007	Amount Added:	5.00	Units: uL	
MSV_CCV_VOC#1_00193	Amount Added:	5.00	Units: uL	
MSV_CCV_OH_Sp_00012	Amount Added:	5.00	Units: uL	
MSV_Cent_ISSS_00029	Amount Added:	5.00	Units: uL	Run Reagent

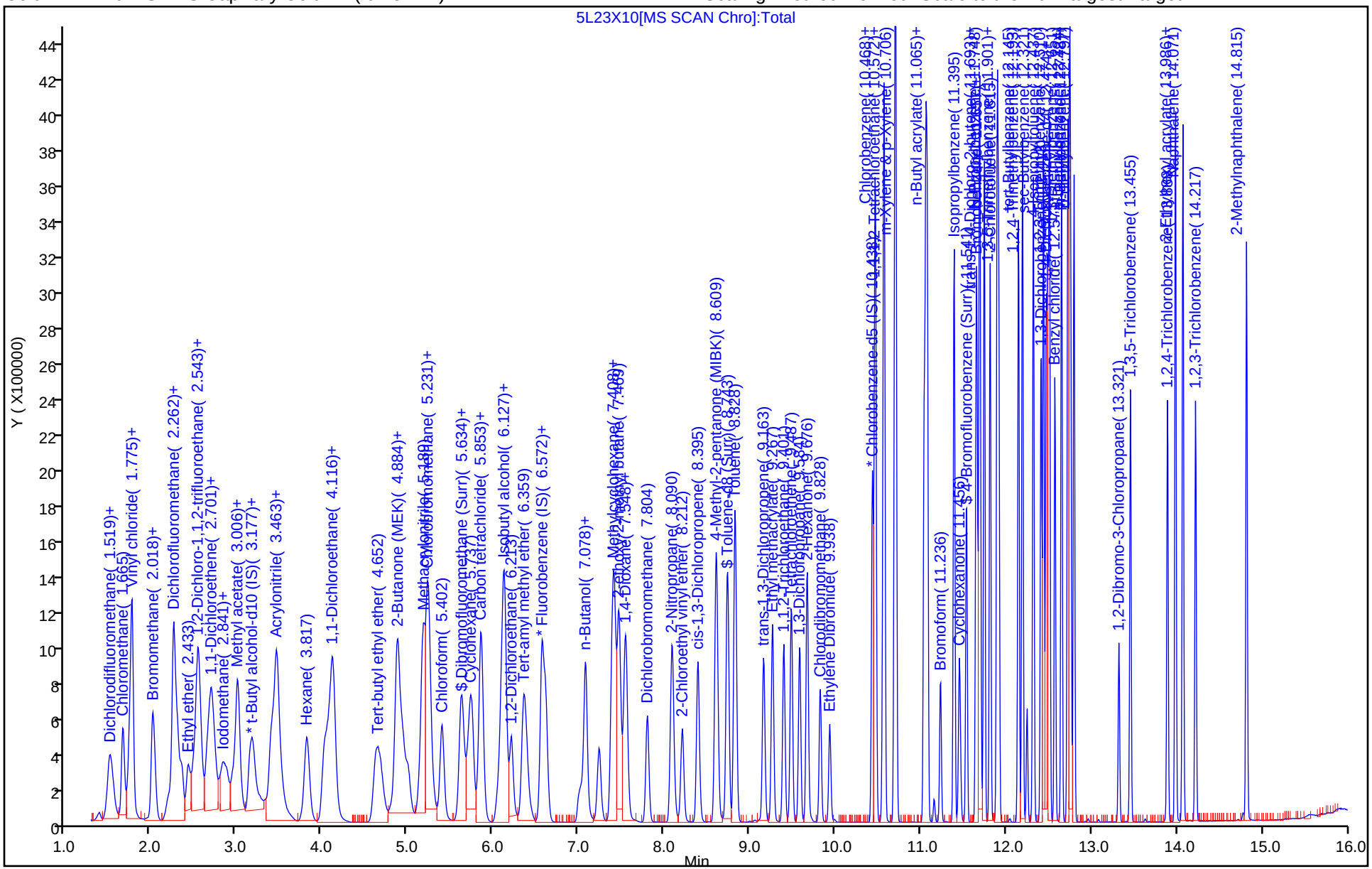
Report Date: 24-Jul-2024 14:23:34 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X10.D

Injection Date:	23-Jul-2024 21:32:30	Instrument ID:	26285	Operator ID:	gaw91131
Lims ID:	ICIS v50			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

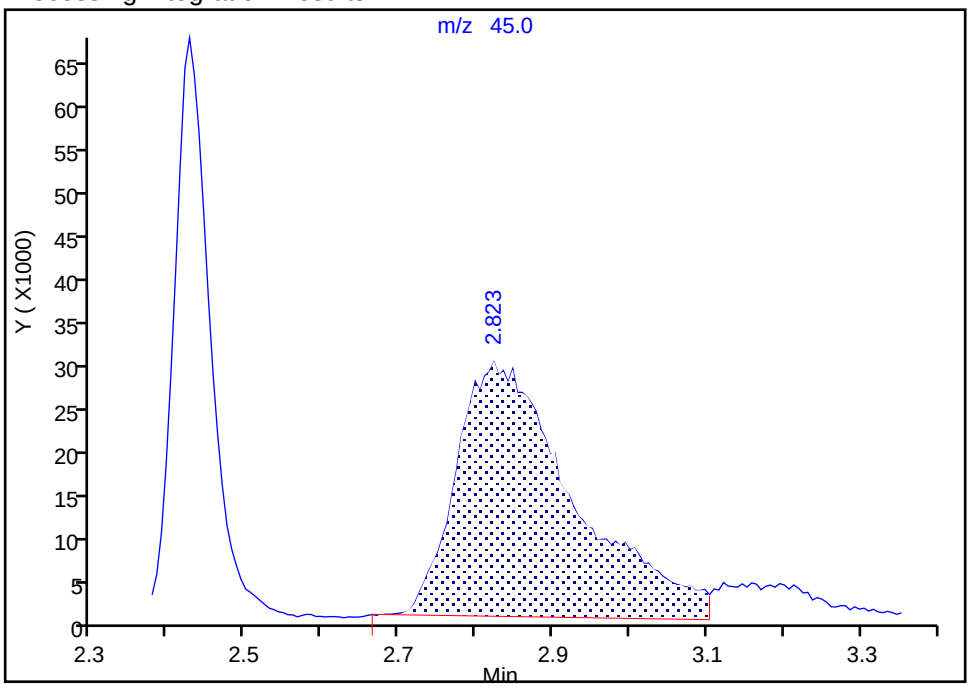
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X10.D
Injection Date: 23-Jul-2024 21:32:30 Instrument ID: 26285
Lims ID: ICIS v50
Client ID:
Operator ID: gaw91131 ALS Bottle#: 10 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

21 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

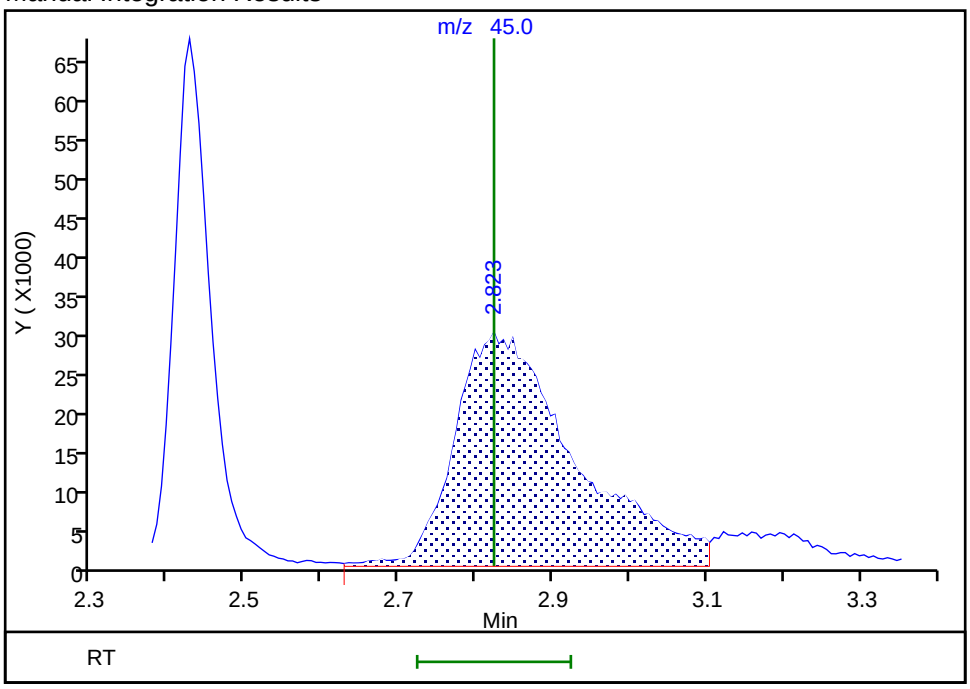
Processing Integration Results

RT: 2.82
Area: 316473
Amount: 227.2993
Amount Units: ug/l



Manual Integration Results

RT: 2.82
Area: 323844
Amount: 232.4129
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 06:36:22 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

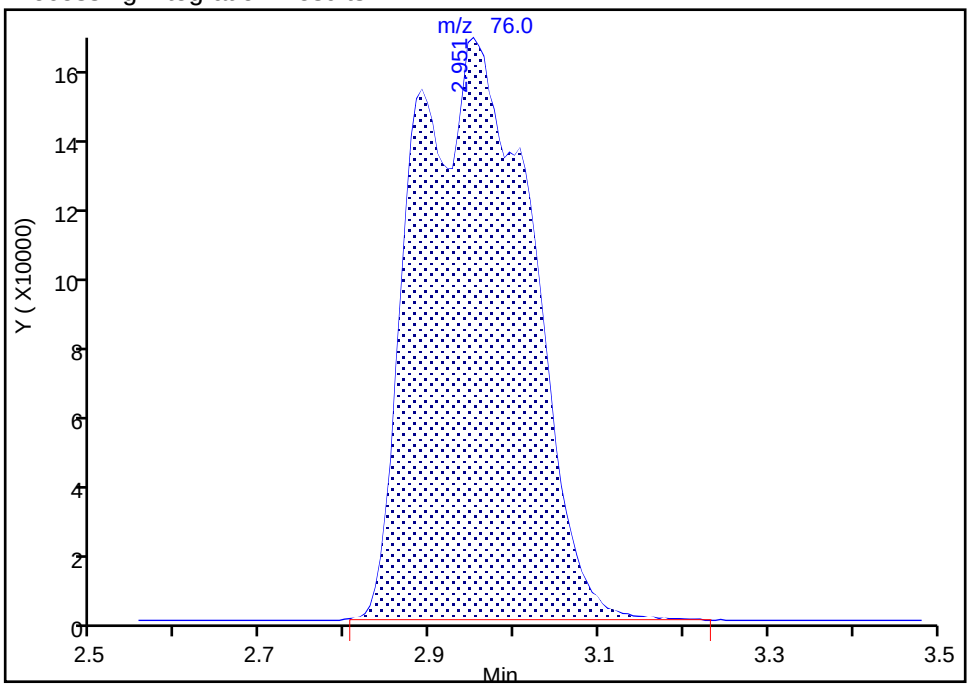
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X10.D
Injection Date: 23-Jul-2024 21:32:30 Instrument ID: 26285
Lims ID: ICIS v50
Client ID:
Operator ID: gaw91131 ALS Bottle#: 10 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

22 Carbon disulfide, CAS: 75-15-0

Signal: 1

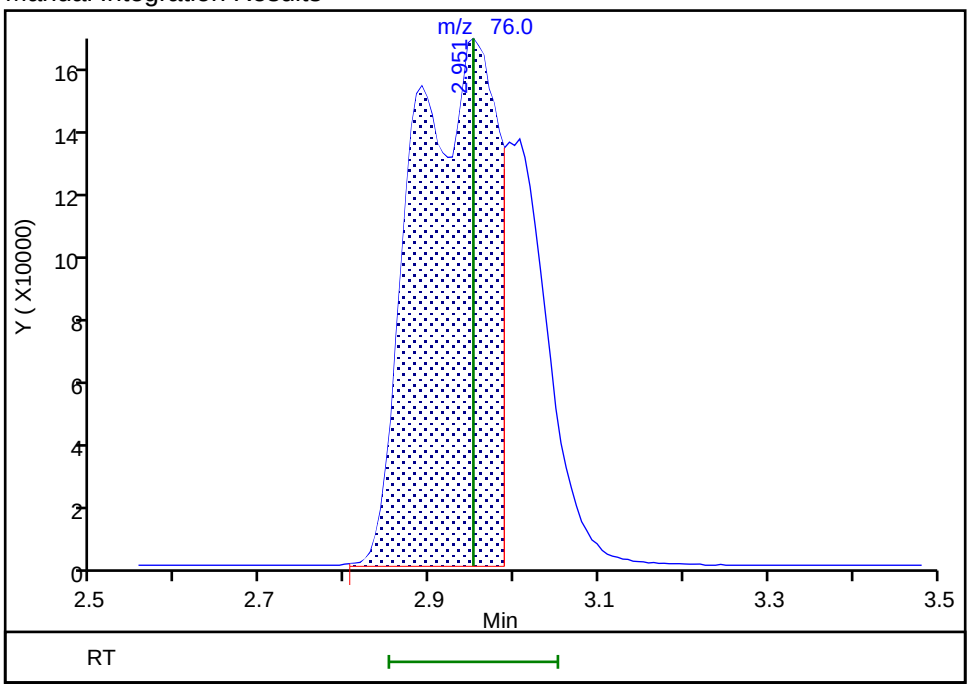
Processing Integration Results

RT: 2.95
Area: 1577130
Amount: 48.448248
Amount Units: ug/l



Manual Integration Results

RT: 2.95
Area: 1136949
Amount: 48.058321
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 06:36:39 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X11.D
Lims ID: IC v100
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Jul-2024 21:52:30 ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120132-017
Misc. Info.: IC V100
Operator ID: gaw91131 Instrument ID: 26285
Sublist: chrom-MSVoa_26285a*sub89

Method: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 24-Jul-2024 14:24:20 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1614

First Level Reviewer: ULCP Date: 24-Jul-2024 11:27:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.518	1.519	-0.001	99	1243568	100.0	98.6	
4 Chloromethane	50	1.665	1.665	0.000	99	1629121	100.0	99.6	
5 Vinyl chloride	62	1.750	1.750	0.000	98	1316843	100.0	99.4	
6 Butadiene	39	1.774	1.775	-0.001	97	1500568	100.0	97.4	
8 Bromomethane	94	2.012	2.012	0.000	91	883625	100.0	100.3	
9 Chloroethane	64	2.037	2.037	0.000	99	732893	100.0	98.9	
10 Dichlorofluoromethane	67	2.262	2.256	0.006	98	2343015	100.0	99.8	
12 Pentane	43	2.268	2.275	-0.007	97	1027669	100.0	96.7	
11 Trichlorofluoromethane	101	2.299	2.305	-0.006	98	1528993	100.0	101.0	
14 Ethyl ether	59	2.427	2.427	0.000	96	558950	100.0	99.7	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.524	2.518	0.006	95	1182116	100.0	98.0	
16 Acrolein	56	2.555	2.555	0.000	99	3580367	1002.2	961.0	
17 1,1-Dichloroethene	96	2.683	2.677	0.006	95	695292	100.0	98.1	
18 Acetone	58	2.689	2.683	0.006	99	308719	200.0	184.5	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.713	2.713	0.000	95	790948	100.0	96.6	
21 Isopropyl alcohol	45	2.829	2.823	0.006	42	775197	500.0	501.8	
20 Iodomethane	142	2.835	2.835	0.000	99	1424810	100.0	100.0	
22 Carbon disulfide	76	2.957	2.951	0.006	100	2425354	100.0	102.2	M
24 Methyl acetate	43	2.994	2.994	0.000	100	1217427	100.0	102.7	
25 3-Chloro-1-propene	41	3.012	3.012	0.000	88	1548195	100.0	98.1	
26 Methylene Chloride	84	3.171	3.177	-0.006	98	897239	100.0	97.0	
* 27 t-Butyl alcohol-d10 (IS)	65	3.189	3.189	0.000	87	532007	250.0	250.0	
29 2-Methyl-2-propanol	59	3.286	3.280	0.006	99	1373400	500.0	484.6	
30 Acrylonitrile	53	3.402	3.402	0.000	97	1591634	250.0	255.9	
31 trans-1,2-Dichloroethene	96	3.463	3.463	0.000	94	785482	100.0	98.6	
32 Methyl tert-butyl ether	73	3.469	3.476	-0.007	96	2714250	100.0	99.0	
33 Hexane	57	3.817	3.817	0.000	96	1052412	100.0	100.3	
34 1,1-Dichloroethane	63	4.024	4.018	0.006	96	1606203	100.0	100.7	
36 Isopropyl ether	45	4.091	4.091	0.000	96	3085854	100.0	100.5	
37 2-Chloro-1,3-butadiene	53	4.128	4.122	0.006	93	1347507	100.0	98.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	4.652	4.652	0.000	99	2896985	100.0	102.6	
39 2-Butanone (MEK)	43	4.865	4.865	0.000	99	1770205	200.0	204.6	
40 cis-1,2-Dichloroethene	96	4.878	4.884	-0.006	85	920981	100.0	99.4	
41 2,2-Dichloropropane	77	4.908	4.902	0.006	89	1298076	100.0	99.0	
43 Propionitrile	54	4.951	4.951	0.000	96	1320680	500.0	485.1	
44 Methyl acrylate	55	5.006	5.006	0.000	99	1507713	100.0	102.5	
45 Methacrylonitrile	67	5.176	5.170	0.006	96	1418233	250.0	254.0	
46 Chlorobromomethane	128	5.231	5.225	0.006	94	437478	100.0	99.3	
47 Tetrahydrofuran	71	5.249	5.243	0.006	91	1131068	500.0	474.4	
48 Chloroform	83	5.402	5.402	0.000	95	1538458	100.0	99.5	
$ 49 Dibromofluoromethane (Surr)	113	5.627	5.628	-0.001	93	350299	50.0	49.3	
50 1,1,1-Trichloroethane	97	5.640	5.634	0.006	99	1282766	100.0	99.0	
51 Cyclohexane	56	5.737	5.737	0.000	95	1518312	100.0	97.3	
52 Carbon tetrachloride	117	5.859	5.853	0.006	93	1086534	100.0	101.1	
53 1,1-Dichloropropene	75	5.859	5.859	0.000	94	1194805	100.0	100.2	
55 Isobutyl alcohol	41	6.091	6.085	0.006	93	1034983	1250.0	1156.7	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.109	6.097	0.012	91	76372	50.0	49.0	
57 Benzene	78	6.133	6.134	-0.001	98	3493008	100.0	100.4	
S 54 1,2-Dichloroethene, Total	100				0			198.0	
58 1,2-Dichloroethane	62	6.213	6.213	0.000	97	1256286	100.0	101.0	
60 Tert-amyl methyl ether	73	6.365	6.359	0.006	97	2700531	100.0	102.2	
* 61 Fluorobenzene (IS)	96	6.572	6.572	0.000	98	1351138	50.0	50.0	
62 n-Heptane	43	6.615	6.609	0.006	97	1084958	100.0	100.9	
63 n-Butanol	56	7.023	7.030	-0.007	92	754102	1250.0	1272.1	
64 Trichloroethene	95	7.078	7.078	0.000	97	883524	100.0	100.4	
66 Methylcyclohexane	83	7.395	7.395	0.000	94	1357669	100.0	100.7	
65 Ethyl acrylate	55	7.395	7.402	-0.007	86	1178936	100.0	100.0	
67 1,2-Dichloropropane	63	7.426	7.420	0.006	98	957554	100.0	102.3	
68 2-ethoxy-2-methyl butane	87	7.475	7.475	0.000	89	1270253	100.0	104.5	
69 1,4-Dioxane	88	7.542	7.536	0.006	29	177598	1250.0	1191.5	M
70 Dibromomethane	93	7.542	7.536	0.006	96	598472	100.0	101.7	
71 Methyl methacrylate	69	7.560	7.560	0.000	93	813418	100.0	103.5	
74 Dichlorobromomethane	83	7.804	7.804	0.000	98	1160580	100.0	105.2	
75 2-Nitropropane	41	8.096	8.090	0.006	98	2186228	500.0	483.0	
76 2-Chloroethyl vinyl ether	63	8.212	8.212	0.000	92	686040	100.0	102.4	
77 cis-1,3-Dichloropropene	75	8.395	8.395	0.000	94	1489868	100.0	107.2	
78 4-Methyl-2-pentanone (MIBK)	43	8.609	8.609	-0.001	98	3577174	200.0	216.4	
$ 79 Toluene-d8 (Surr)	98	8.743	8.743	0.000	94	1294134	50.0	49.6	
80 Toluene	92	8.834	8.828	0.006	98	2076698	100.0	101.0	
84 trans-1,3-Dichloropropene	75	9.163	9.163	0.000	96	1343250	100.0	105.9	
85 Ethyl methacrylate	69	9.267	9.267	0.000	91	1431688	100.0	103.9	
86 1,1,2-Trichloroethane	97	9.401	9.401	0.000	91	773802	100.0	102.4	
87 Tetrachloroethene	166	9.492	9.493	-0.001	96	859042	100.0	100.4	
88 1,3-Dichloropropane	76	9.584	9.584	0.000	95	1311011	100.0	102.4	
90 2-Hexanone	43	9.675	9.676	-0.001	99	2524961	200.0	213.5	
91 Chlorodibromomethane	129	9.828	9.828	0.000	90	896320	100.0	108.0	
96 Ethylene Dibromide	107	9.938	9.938	0.000	98	849146	100.0	103.4	
S 97 1,3-Dichloropropene, Total	100				0			213.1	
* 98 Chlorobenzene-d5 (IS)	117	10.437	10.438	-0.001	87	992111	50.0	50.0	
99 Chlorobenzene	112	10.468	10.468	0.000	92	2281514	100.0	101.8	
100 1-Chlorohexane	91	10.474	10.474	0.000	96	1052758	100.0	98.3	
128 1,1,1,2-Tetrachloroethane	131	10.565	10.566	-0.001	96	868449	100.0	104.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
129 Ethylbenzene	91	10.578	10.578	0.000	99	4268153	100.0	102.3	
130 m-Xylene & p-Xylene	106	10.706	10.706	0.000	98	3158315	200.0	202.5	
131 n-Butyl acrylate	55	11.041	11.041	0.000	95	2313650	100.0	104.3	
132 o-Xylene	106	11.065	11.059	0.006	97	1617249	100.0	102.2	
133 Styrene	104	11.084	11.078	0.006	95	2584142	100.0	102.6	
135 Bromoform	173	11.236	11.236	0.000	96	704453	100.0	106.8	
S 134 Xylenes, Total	106				0			304.6	
136 Isopropylbenzene	105	11.395	11.395	0.000	96	3754602	100.0	102.9	
137 Cyclohexanone	55	11.456	11.456	0.000	95	737725	1250.0	1230.2	
$ 140 4-Bromofluorobenzene (Surr)	95	11.535	11.535	0.000	89	516297	50.0	49.1	
143 Bromobenzene	156	11.651	11.651	0.000	95	981406	100.0	103.0	
144 1,1,2,2-Tetrachloroethane	83	11.663	11.663	0.000	93	1499820	100.0	105.1	
145 trans-1,4-Dichloro-2-butene	53	11.687	11.687	0.000	87	1163859	250.0	264.0	
146 1,2,3-Trichloropropane	110	11.699	11.700	-0.001	86	394220	100.0	103.3	
147 N-Propylbenzene	91	11.748	11.748	0.000	99	4952239	100.0	105.6	
148 2-Chlorotoluene	126	11.815	11.815	0.000	96	950660	100.0	103.0	
149 1,3,5-Trimethylbenzene	105	11.901	11.895	0.006	94	3453287	100.0	107.9	
150 4-Chlorotoluene	126	11.919	11.913	0.006	98	929313	100.0	103.2	
152 tert-Butylbenzene	134	12.144	12.145	-0.001	93	605005	100.0	110.1	
154 1,2,4-Trimethylbenzene	105	12.193	12.193	0.000	98	3516405	100.0	106.0	
155 sec-Butylbenzene	105	12.321	12.321	0.000	95	4172610	100.0	109.0	
156 1,3-Dichlorobenzene	146	12.413	12.413	0.000	98	1795233	100.0	103.3	
157 4-Isopropyltoluene	119	12.437	12.437	0.000	97	3541105	100.0	108.4	
* 158 1,4-Dichlorobenzene-d4	152	12.474	12.474	0.000	93	544956	50.0	50.0	
159 1,4-Dichlorobenzene	146	12.492	12.492	0.000	94	1811192	100.0	102.5	
160 1,2,3-Trimethylbenzene	105	12.510	12.510	0.000	99	3614344	100.0	106.8	
164 Benzyl chloride	91	12.571	12.571	0.000	99	2913452	100.0	108.1	
165 1,3-Diethylbenzene	119	12.650	12.651	-0.001	95	2014620	100.0	107.0	
166 p-Diethylbenzene	119	12.724	12.724	0.000	93	2095897	100.0	107.2	
167 n-Butylbenzene	92	12.742	12.742	0.000	98	1764097	100.0	106.6	
168 1,2-Dichlorobenzene	146	12.760	12.760	0.000	97	1793599	100.0	102.1	
169 o-diethylbenzene	119	12.797	12.797	0.000	97	1682020	100.0	108.7	
170 1,2-Dibromo-3-Chloropropane	75	13.321	13.321	0.000	84	418601	100.0	108.1	
171 1,3,5-Trichlorobenzene	180	13.455	13.455	0.000	97	1266775	100.0	107.1	
173 1,2,4-Trichlorobenzene	180	13.888	13.888	0.000	94	1222858	100.0	106.5	
175 2-Ethylhexyl acrylate	55	13.986	13.980	0.006	82	1500834	100.0	112.3	
174 Hexachlorobutadiene	225	13.986	13.986	0.000	62	495158	100.0	110.7	
176 Naphthalene	128	14.071	14.071	0.000	97	4832433	100.0	107.7	
177 1,2,3-Trichlorobenzene	180	14.217	14.217	0.000	96	1218841	100.0	106.9	
178 2-Methylnaphthalene	142	14.815	14.815	0.000	92	2557731	100.0	110.4	
S 182 Total Diethylbenzene	1				0			322.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_CYC_00010	Amount Added:	10.00	Units: uL	
MSV_CCV_GASES_00843	Amount Added:	2.50	Units: uL	
MSV_CCV_VOC#3_00189	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00185	Amount Added:	5.00	Units: uL	
MSV_CCV_EE_00007	Amount Added:	5.00	Units: uL	
MSV_CCV_VOC#1_00193	Amount Added:	5.00	Units: uL	
MSV_CCV_OH_Sp_00012	Amount Added:	5.00	Units: uL	
MSV_Cent_ISSS_00029	Amount Added:	5.00	Units: uL	Run Reagent

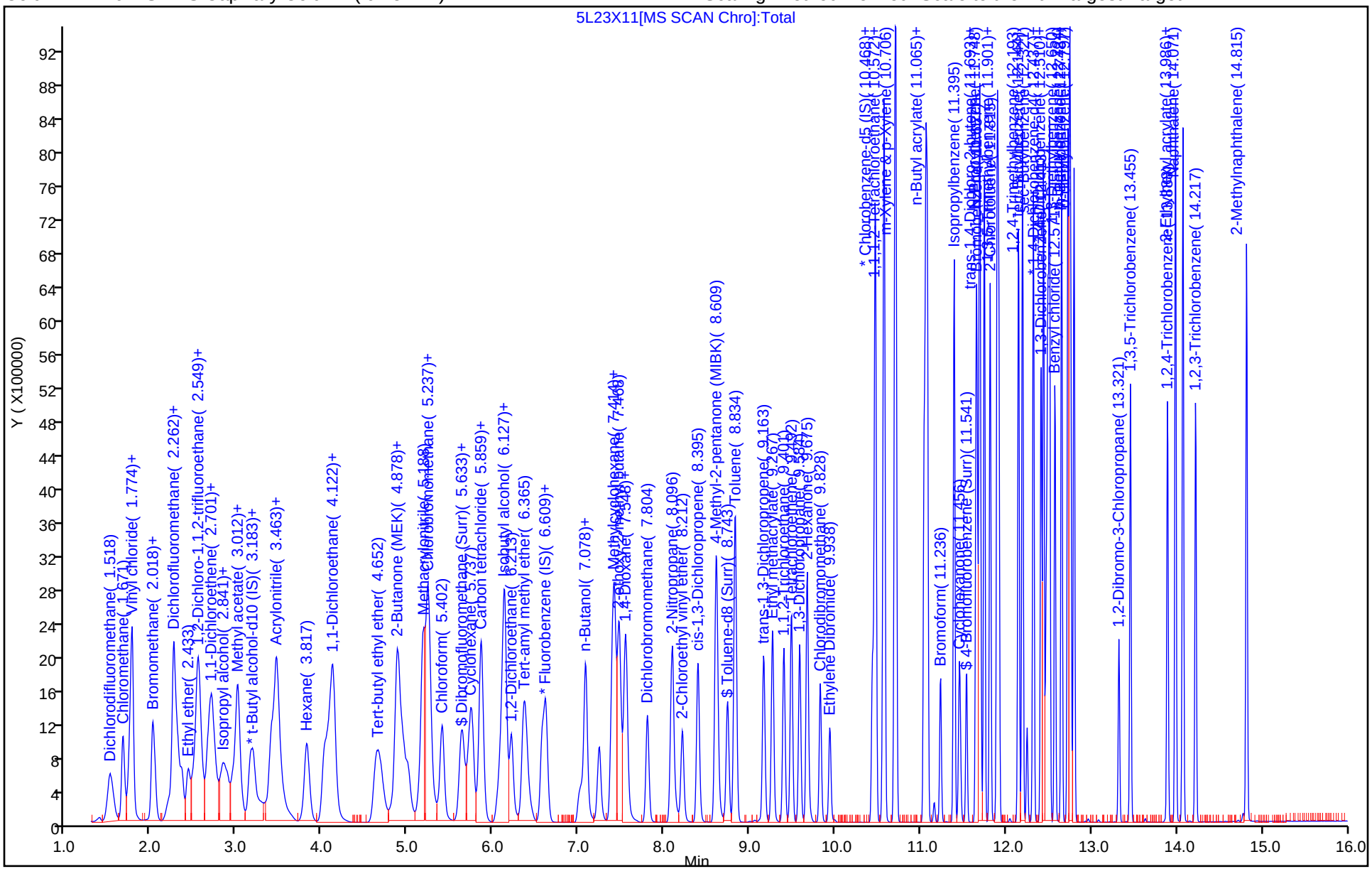
Report Date: 24-Jul-2024 14:24:24 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X11.D

Injection Date:	23-Jul-2024 21:52:30	Instrument ID:	26285	Operator ID:	gaw91131
Lims ID:	IC v100			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



10/04/2024

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

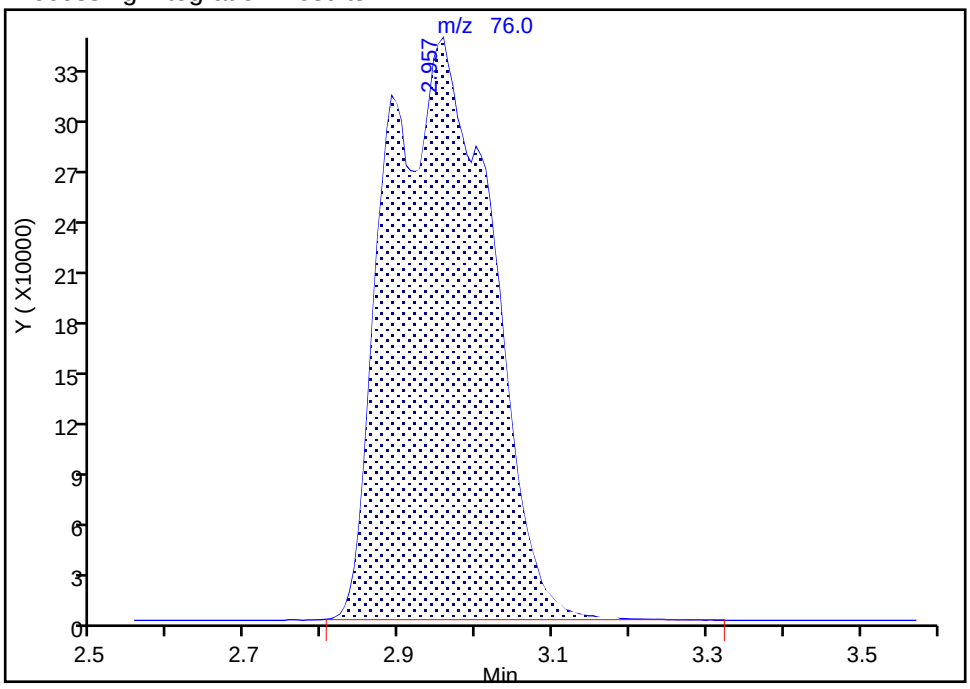
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X11.D
Injection Date: 23-Jul-2024 21:52:30 Instrument ID: 26285
Lims ID: IC v100
Client ID:
Operator ID: gaw91131 ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

22 Carbon disulfide, CAS: 75-15-0

Signal: 1

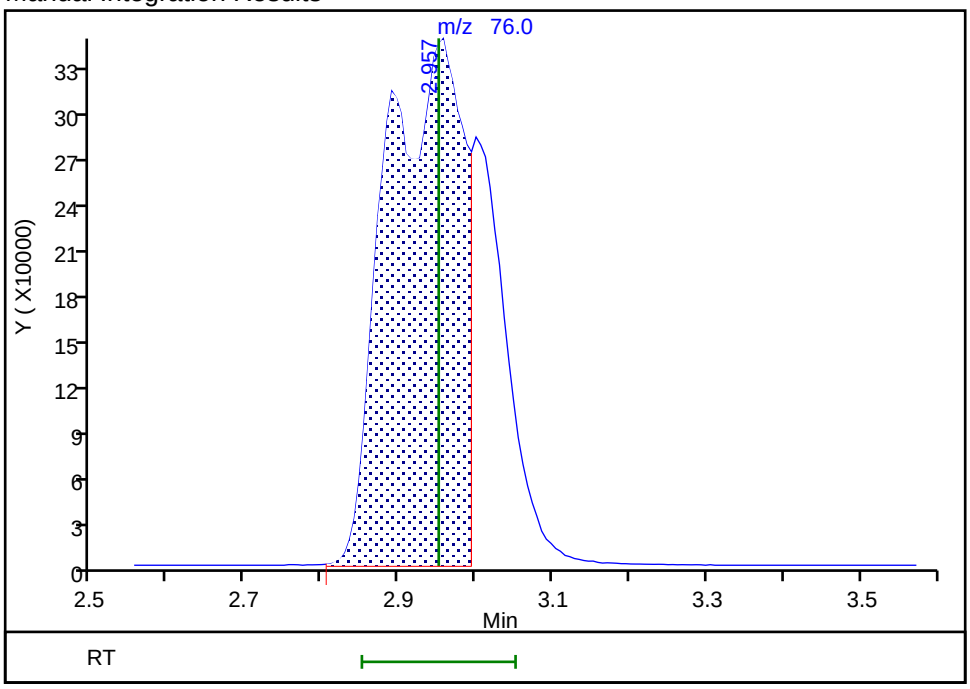
Processing Integration Results

RT: 2.96
Area: 3256494
Amount: 123.7452
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 2425354
Amount: 102.2305
Amount Units: ug/l



Reviewer: UJML, 24-Jul-2024 12:43:02 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

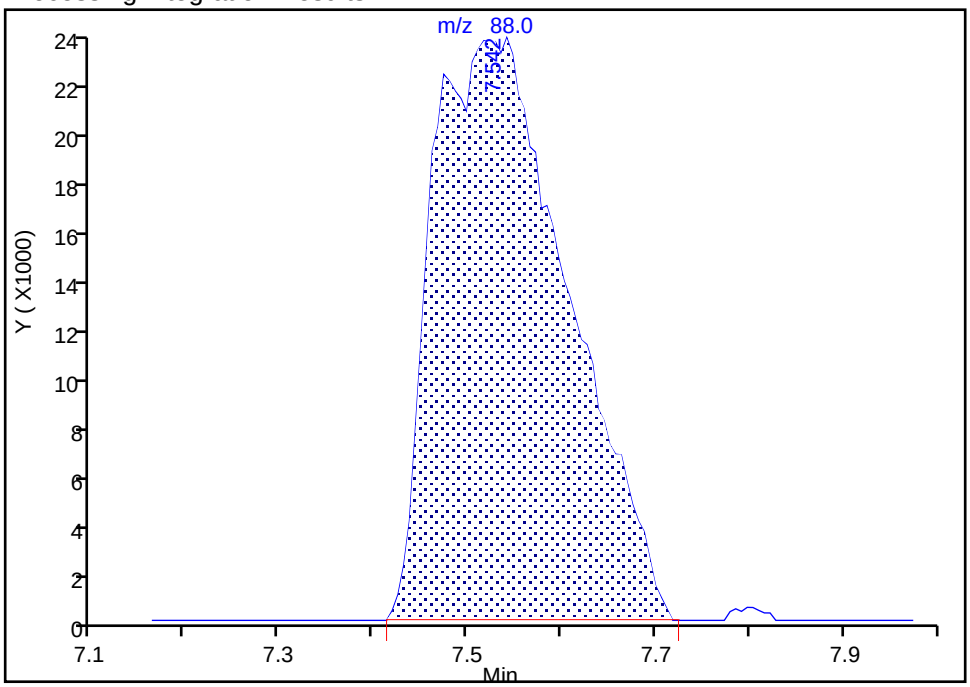
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X11.D
Injection Date: 23-Jul-2024 21:52:30 Instrument ID: 26285
Lims ID: IC v100
Client ID:
Operator ID: gaw91131 ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

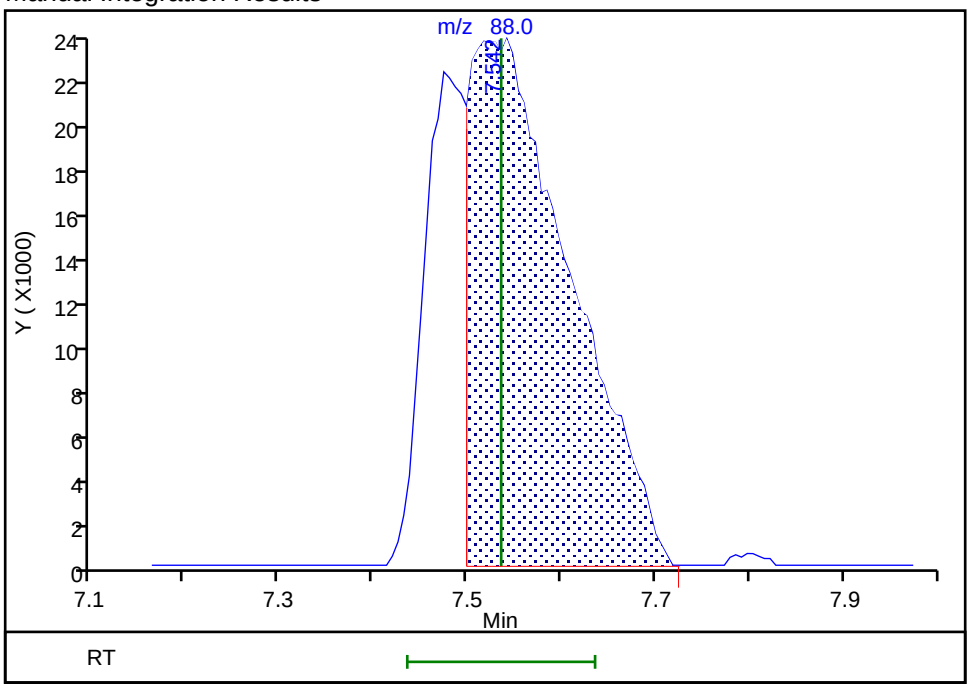
Processing Integration Results

RT: 7.54
Area: 239074
Amount: 1269.1361
Amount Units: ug/l



Manual Integration Results

RT: 7.54
Area: 177598
Amount: 1191.5441
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 11:26:59 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D
Lims ID: IC v300
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 23-Jul-2024 22:12:30 ALS Bottle#: 12 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120132-018
Misc. Info.: IC V300
Operator ID: gaw91131 Instrument ID: 26285
Sublist: chrom-MSVoa_26285a*sub89

Method: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 24-Jul-2024 14:25:17 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1614

First Level Reviewer: ULCP Date: 24-Jul-2024 11:42:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.513	1.519	-0.007	99	3734201	300.0	293.0	
4 Chloromethane	50	1.665	1.665	0.000	99	4553798	300.0	275.6	
5 Vinyl chloride	62	1.750	1.750	0.000	98	3692223	300.0	275.9	
6 Butadiene	39	1.775	1.775	0.000	96	4218826	300.0	271.2	
8 Bromomethane	94	2.012	2.012	0.000	91	2506701	300.0	281.7	
9 Chloroethane	64	2.037	2.037	0.000	98	2092255	300.0	279.4	
10 Dichlorofluoromethane	67	2.256	2.256	0.000	98	6661697	300.0	281.0	
12 Pentane	43	2.268	2.275	-0.007	98	2770910	300.0	258.1	M
11 Trichlorofluoromethane	101	2.305	2.305	0.000	96	4507362	300.0	294.6	
14 Ethyl ether	59	2.421	2.427	-0.006	95	1534033	300.0	270.9	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.518	2.518	0.000	95	3393352	300.0	278.4	
16 Acrolein	56	2.555	2.555	0.000	99	9571798	3006.5	3112.2	
17 1,1-Dichloroethene	96	2.689	2.677	0.012	95	2143340	300.0	299.3	
18 Acetone	58	2.677	2.683	-0.006	98	901502	600.0	652.7	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.720	2.713	0.007	94	2498029	300.0	301.9	
21 Isopropyl alcohol	45	2.805	2.823	-0.018	95	1736816	1500.0	1361.8	
20 Iodomethane	142	2.835	2.835	0.000	99	4304936	300.0	299.0	
22 Carbon disulfide	76	2.951	2.951	0.000	100	10170183	300.0	424.3	
24 Methyl acetate	43	2.988	2.994	-0.006	99	3704326	300.0	309.4	
25 3-Chloro-1-propene	41	3.012	3.012	0.000	89	4680369	300.0	293.7	
26 Methylene Chloride	84	3.183	3.177	0.006	98	2690151	300.0	287.8	
* 27 t-Butyl alcohol-d10 (IS)	65	3.177	3.189	-0.012	72	439190	250.0	250.0	
29 2-Methyl-2-propanol	59	3.287	3.280	0.007	99	3279240	1500.0	1401.7	
30 Acrylonitrile	53	3.396	3.402	-0.006	97	4416332	750.0	702.8	
31 trans-1,2-Dichloroethene	96	3.463	3.463	0.000	95	2369429	300.0	294.5	
32 Methyl tert-butyl ether	73	3.463	3.476	-0.013	97	7760254	300.0	280.2	
33 Hexane	57	3.811	3.817	-0.006	96	3054212	300.0	288.3	
34 1,1-Dichloroethane	63	4.012	4.018	-0.006	96	4766149	300.0	295.8	
36 Isopropyl ether	45	4.091	4.091	0.000	96	9079966	300.0	292.6	
37 2-Chloro-1,3-butadiene	53	4.122	4.122	0.000	93	4074511	300.0	294.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	4.652	4.652	0.000	100	8407845	300.0	294.7	
39 2-Butanone (MEK)	43	4.853	4.865	-0.012	99	5065552	600.0	579.6	
40 cis-1,2-Dichloroethene	96	4.878	4.884	-0.006	86	2727791	300.0	291.4	
41 2,2-Dichloropropane	77	4.914	4.902	0.012	92	3969270	300.0	299.6	
43 Propionitrile	54	4.951	4.951	0.000	98	3616410	1500.0	1609.2	
44 Methyl acrylate	55	5.000	5.006	-0.006	99	4323657	300.0	291.0	
45 Methacrylonitrile	67	5.176	5.170	0.006	97	4088688	750.0	724.9	
46 Chlorobromomethane	128	5.225	5.225	0.000	93	1281760	300.0	288.1	
47 Tetrahydrofuran	71	5.243	5.243	0.000	91	3176956	1500.0	1614.2	
48 Chloroform	83	5.402	5.402	0.000	95	4565787	300.0	292.2	
$ 49 Dibromofluoromethane (Surr)	113	5.628	5.628	0.000	93	350527	50.0	48.8	
50 1,1,1-Trichloroethane	97	5.646	5.634	0.012	99	3953127	300.0	302.0	
51 Cyclohexane	56	5.749	5.737	0.012	95	4731355	300.0	300.2	
52 Carbon tetrachloride	117	5.859	5.853	0.006	96	3390797	300.0	312.2	
53 1,1-Dichloropropene	75	5.853	5.859	-0.006	95	3657804	300.0	303.5	
55 Isobutyl alcohol	41	6.091	6.085	0.006	95	2670354	3750.0	3615.1	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.103	6.097	0.006	84	77956	50.0	49.5	
57 Benzene	78	6.134	6.134	0.000	98	10661694	300.0	303.4	
S 54 1,2-Dichloroethene, Total	100				0			585.9	
58 1,2-Dichloroethane	62	6.213	6.213	0.000	97	3671645	300.0	292.3	
60 Tert-amyl methyl ether	73	6.365	6.359	0.006	97	7957098	300.0	298.1	
* 61 Fluorobenzene (IS)	96	6.572	6.572	0.000	98	1365045	50.0	50.0	
62 n-Heptane	43	6.609	6.609	0.000	97	3096183	300.0	285.0	
63 n-Butanol	56	7.030	7.030	0.000	93	1902538	3750.0	3887.5	
64 Trichloroethene	95	7.078	7.078	0.000	96	2756532	300.0	310.1	
66 Methylcyclohexane	83	7.402	7.395	0.007	92	4048457	300.0	297.1	
65 Ethyl acrylate	55	7.402	7.402	0.000	86	3471547	299.9	291.4	
67 1,2-Dichloropropane	63	7.426	7.420	0.006	98	2895300	300.0	306.2	
68 2-ethoxy-2-methyl butane	87	7.475	7.475	0.000	89	3823628	300.0	311.4	
69 1,4-Dioxane	88	7.536	7.536	0.000	90	465902	3750.0	3764.5	M
70 Dibromomethane	93	7.536	7.536	0.000	96	1778132	300.0	299.0	
71 Methyl methacrylate	69	7.560	7.560	0.000	93	2459774	300.0	309.7	
74 Dichlorobromomethane	83	7.804	7.804	0.000	98	3596082	300.0	322.6	
75 2-Nitropropane	41	8.097	8.090	0.007	98	6255163	1500.0	1674.1	
76 2-Chloroethyl vinyl ether	63	8.212	8.212	0.000	92	2132257	300.0	315.0	
77 cis-1,3-Dichloropropene	75	8.395	8.395	0.000	94	4633320	300.0	330.0	
78 4-Methyl-2-pentanone (MIBK)	43	8.609	8.609	0.000	98	9888426	600.0	592.1	
$ 79 Toluene-d8 (Surr)	98	8.743	8.743	0.000	95	1343724	50.0	49.5	
80 Toluene	92	8.834	8.828	0.006	98	6410110	300.0	299.4	
84 trans-1,3-Dichloropropene	75	9.163	9.163	0.000	96	4196871	300.0	317.8	
85 Ethyl methacrylate	69	9.273	9.267	0.006	91	4211763	300.0	293.6	
86 1,1,2-Trichloroethane	97	9.401	9.401	0.000	91	2334126	300.0	296.6	
87 Tetrachloroethene	166	9.493	9.493	0.000	96	2641188	300.0	296.5	
88 1,3-Dichloropropane	76	9.590	9.584	0.006	95	4026685	300.0	302.0	
90 2-Hexanone	43	9.676	9.676	0.000	99	6979790	600.0	566.9	
91 Chlorodibromomethane	129	9.828	9.828	0.000	90	2761462	300.0	319.5	
96 Ethylene Dibromide	107	9.938	9.938	0.000	98	2552829	300.0	298.6	
S 97 1,3-Dichloropropene, Total	100				0			647.8	
* 98 Chlorobenzene-d5 (IS)	117	10.438	10.438	0.000	87	1033164	50.0	50.0	
99 Chlorobenzene	112	10.468	10.468	0.000	97	6972700	300.0	298.8	
100 1-Chlorohexane	91	10.480	10.474	0.006	95	3149949	300.0	282.3	
128 1,1,1,2-Tetrachloroethane	131	10.566	10.566	0.000	96	2607774	300.0	301.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
129 Ethylbenzene	91	10.578	10.578	0.000	99	12572221	300.0	289.2	
130 m-Xylene & p-Xylene	106	10.706	10.706	0.000	96	9379820	600.0	577.4	e
131 n-Butyl acrylate	55	11.041	11.041	0.000	95	6538848	300.0	283.0	
132 o-Xylene	106	11.066	11.059	0.007	97	4738136	300.0	287.4	
133 Styrene	104	11.084	11.078	0.006	95	7762874	300.0	296.0	
135 Bromoform	173	11.236	11.236	0.000	97	2136813	300.0	311.2	
S 134 Xylenes, Total	106				0			864.8	
136 Isopropylbenzene	105	11.395	11.395	0.000	97	10873439	300.0	286.2	
137 Cyclohexanone	55	11.456	11.456	0.000	95	1845262	3749.9	3727.3	
$ 140 4-Bromofluorobenzene (Surr)	95	11.541	11.535	0.006	89	536731	50.0	49.0	
143 Bromobenzene	156	11.651	11.651	0.000	97	2931674	300.0	301.7	
144 1,1,2,2-Tetrachloroethane	83	11.663	11.663	0.000	94	4257939	300.0	292.7	
145 trans-1,4-Dichloro-2-butene	53	11.693	11.687	0.006	87	3341456	750.0	743.7	
146 1,2,3-Trichloropropane	110	11.706	11.700	0.006	87	1099163	300.0	282.6	
147 N-Propylbenzene	91	11.748	11.748	0.000	98	12877273	300.0	269.4	e
148 2-Chlorotoluene	126	11.815	11.815	0.000	96	2863420	300.0	304.4	
149 1,3,5-Trimethylbenzene	105	11.901	11.895	0.006	94	10007842	300.0	306.8	
150 4-Chlorotoluene	126	11.919	11.913	0.006	98	2800750	300.0	305.2	
152 tert-Butylbenzene	134	12.151	12.145	0.006	93	1817275	300.0	324.5	
154 1,2,4-Trimethylbenzene	105	12.193	12.193	0.000	99	10195165	300.0	301.6	
155 sec-Butylbenzene	105	12.321	12.321	0.000	96	11573771	300.0	296.6	e
156 1,3-Dichlorobenzene	146	12.413	12.413	0.000	97	5293988	300.0	298.7	
157 4-Isopropyltoluene	119	12.443	12.437	0.006	96	10045530	300.0	301.7	
* 158 1,4-Dichlorobenzene-d4	152	12.474	12.474	0.000	90	555478	50.0	50.0	
159 1,4-Dichlorobenzene	146	12.492	12.492	0.000	93	5319807	300.0	295.3	
160 1,2,3-Trimethylbenzene	105	12.510	12.510	0.000	99	10482692	300.0	303.8	
164 Benzyl chloride	91	12.571	12.571	0.000	99	8453381	300.0	307.7	
165 1,3-Diethylbenzene	119	12.651	12.651	0.000	94	5884370	300.0	306.5	
166 p-Diethylbenzene	119	12.724	12.724	0.000	92	6049978	300.0	303.7	
167 n-Butylbenzene	92	12.742	12.742	0.000	98	5105169	300.0	302.5	
168 1,2-Dichlorobenzene	146	12.760	12.760	0.000	98	5281324	300.0	294.9	
169 o-diethylbenzene	119	12.797	12.797	0.000	98	4970414	300.0	315.1	
170 1,2-Dibromo-3-Chloropropane	75	13.321	13.321	0.000	83	1196301	300.0	303.2	
171 1,3,5-Trichlorobenzene	180	13.455	13.455	0.000	97	3629114	300.0	300.9	
173 1,2,4-Trichlorobenzene	180	13.888	13.888	0.000	94	3470095	300.0	296.4	
175 2-Ethylhexyl acrylate	55	13.980	13.980	0.000	82	4407286	300.0	323.5	
174 Hexachlorobutadiene	225	13.986	13.986	0.000	61	1428231	300.0	313.3	
176 Naphthalene	128	14.071	14.071	0.000	99	12136036	300.0	265.4	e
177 1,2,3-Trichlorobenzene	180	14.217	14.217	0.000	96	3430485	300.0	295.1	
178 2-Methylnaphthalene	142	14.815	14.815	0.000	92	7013565	300.0	297.0	
S 182 Total Diethylbenzene	1				0			925.4	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_CYC_00010	Amount Added:	30.00	Units: uL	
MSV_CCV_GASES_00843	Amount Added:	7.50	Units: uL	
MSV_CCV_VOC#3_00189	Amount Added:	12.00	Units: uL	
MSV_CCV_2CEVE_00185	Amount Added:	15.00	Units: uL	
MSV_CCV_EE_00007	Amount Added:	15.00	Units: uL	
MSV_CCV_VOC#1_00193	Amount Added:	15.00	Units: uL	
MSV_CCV_OH_Sp_00012	Amount Added:	15.00	Units: uL	
MSV_Cent_ISSS_00029	Amount Added:	5.00	Units: uL	Run Reagent

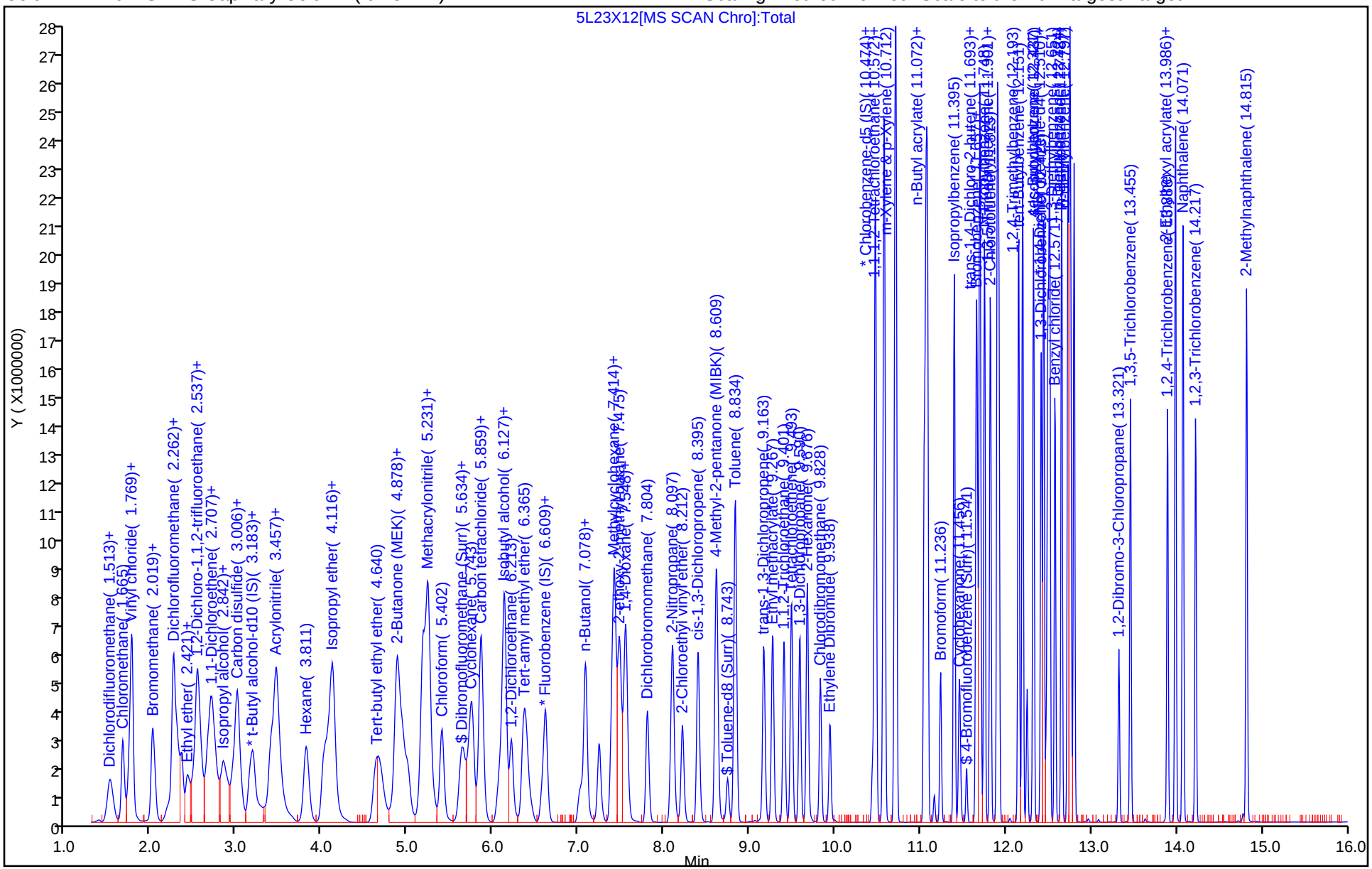
Report Date: 24-Jul-2024 14:25:19 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Injection Date:	23-Jul-2024 22:12:30	Instrument ID:	26285	Operator ID:	gaw91131
Lims ID:	IC v300			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

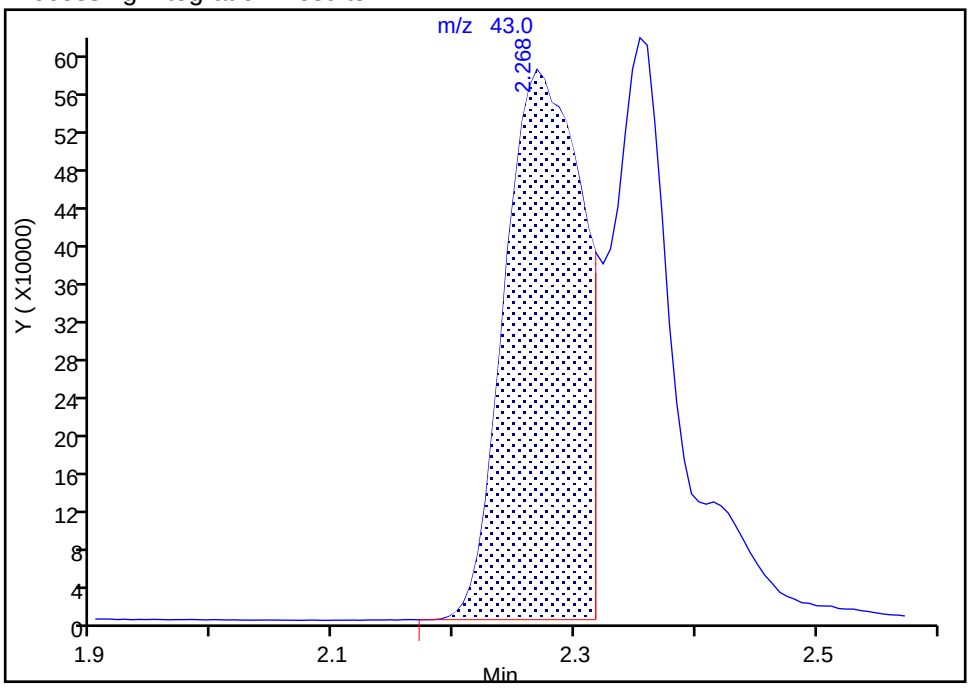
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D
Injection Date: 23-Jul-2024 22:12:30 Instrument ID: 26285
Lims ID: IC v300
Client ID:
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

12 Pentane, CAS: 109-66-0

Signal: 1

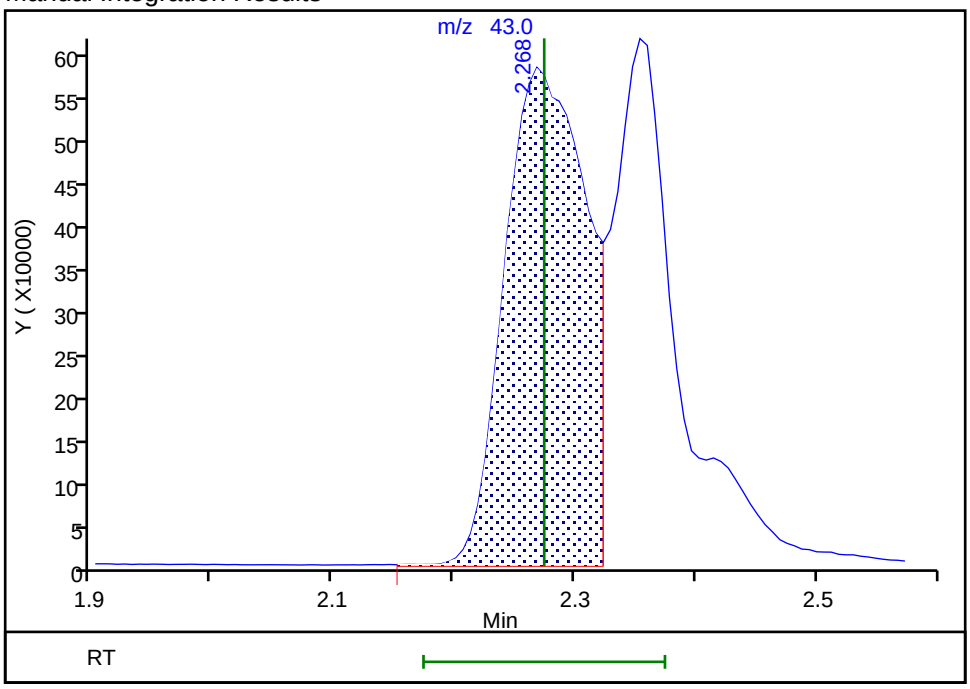
Processing Integration Results

RT: 2.27
Area: 2624858
Amount: 246.0854
Amount Units: ug/l



Manual Integration Results

RT: 2.27
Area: 2770910
Amount: 258.0952
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 11:28:39 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

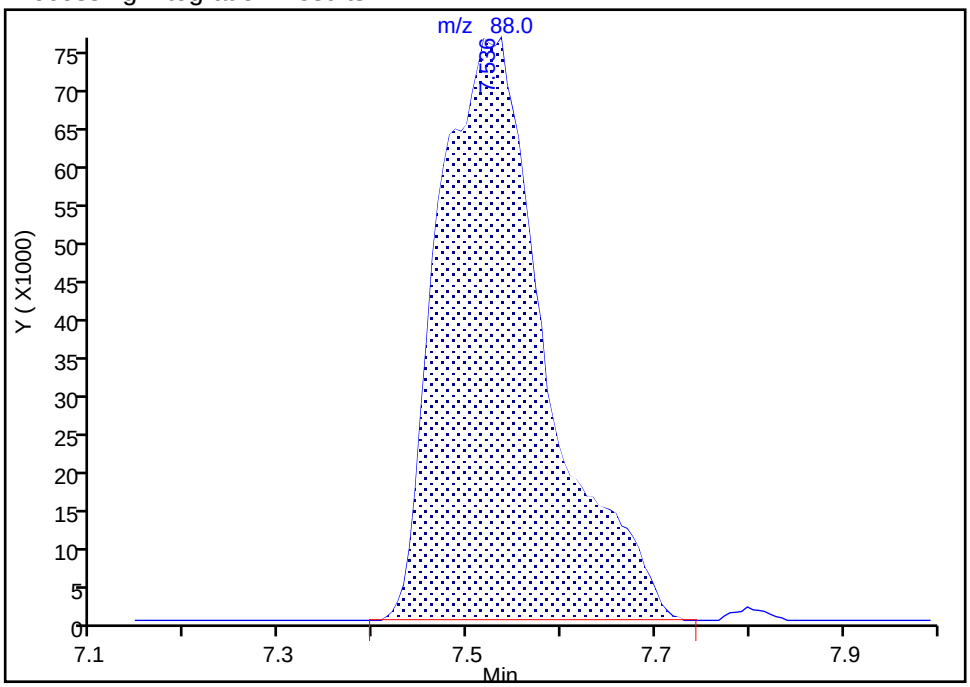
Data File:	\\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D				
Injection Date:	23-Jul-2024 22:12:30	Instrument ID:	26285		
Lims ID:	IC v300				
Client ID:					
Operator ID:	gaw91131	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

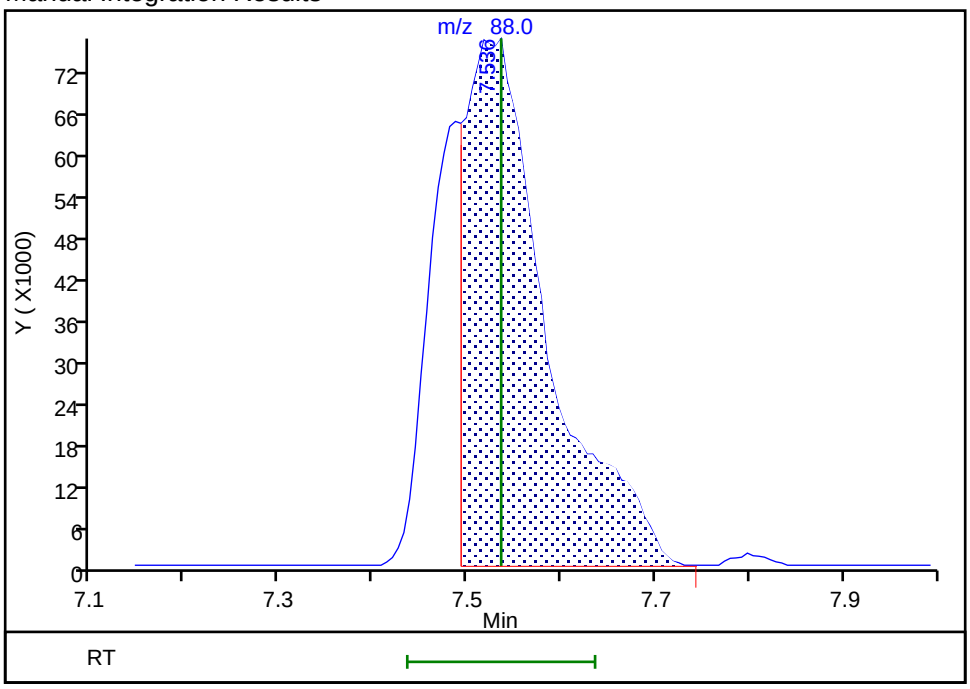
Processing Integration Results

RT: 7.54
Area: 608437
Amount: 5625.8648
Amount Units: ug/l



Manual Integration Results

RT: 7.54
Area: 465902
Amount: 3764.5245
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 13:35:33 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

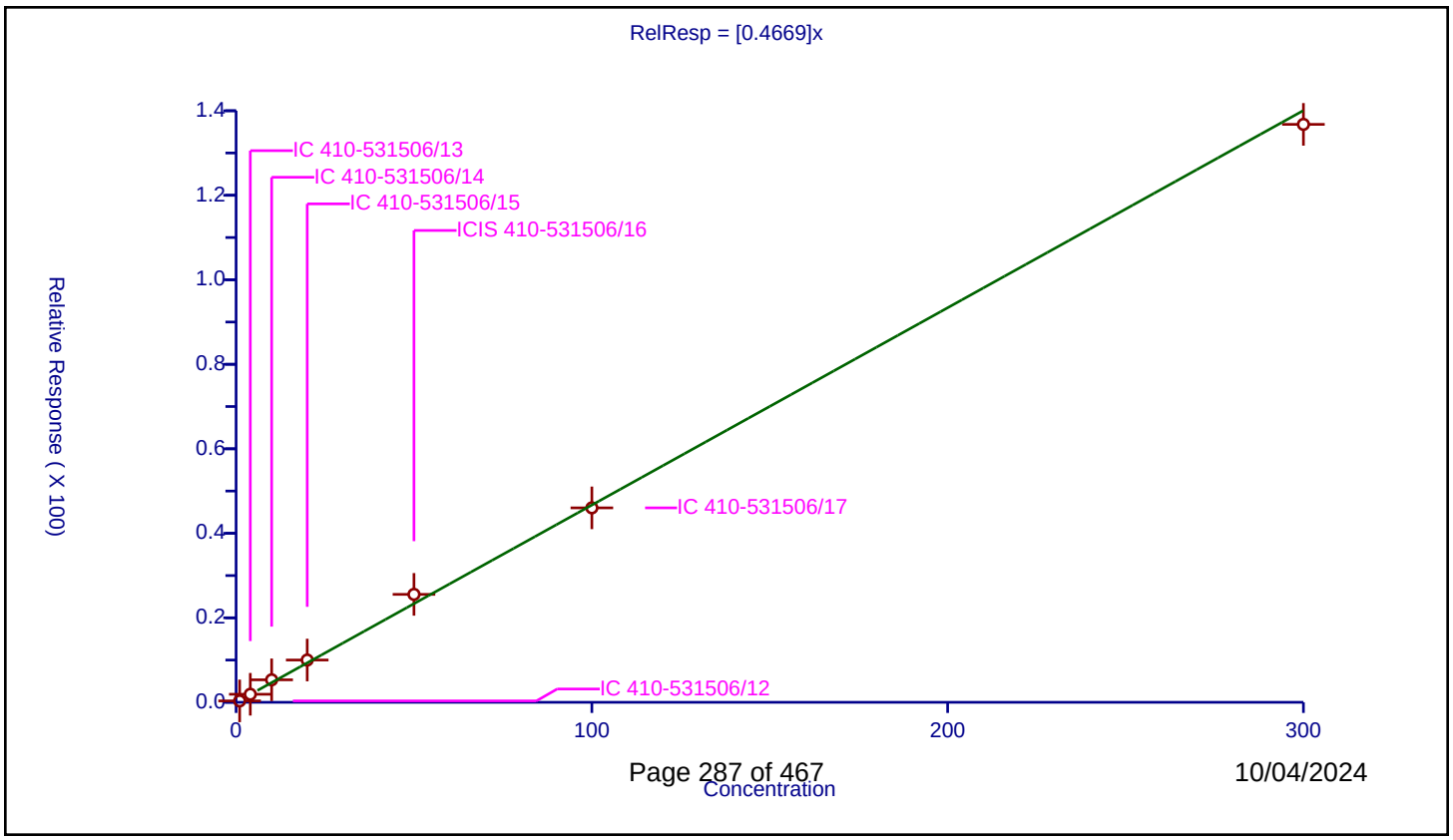
Curve Coefficients

Intercept:	0
Slope:	0.4669

Error Coefficients

Relative Standard Deviation:	14.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.332053	50.0	1349937.0	0.332053	Y
2	IC 410-531506/13	4.0	1.904955	50.0	1289742.0	0.476239	Y
3	IC 410-531506/14	10.0	5.323206	50.0	1319825.0	0.532321	Y
4	IC 410-531506/15	20.0	10.008195	50.0	1310606.0	0.50041	Y
5	ICIS 410-531506/16	50.0	25.544758	50.0	1347341.0	0.510895	Y
6	IC 410-531506/17	100.0	46.019282	50.0	1351138.0	0.460193	Y
7	IC 410-531506/18	300.0	136.77941	50.0	1365045.0	0.455931	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

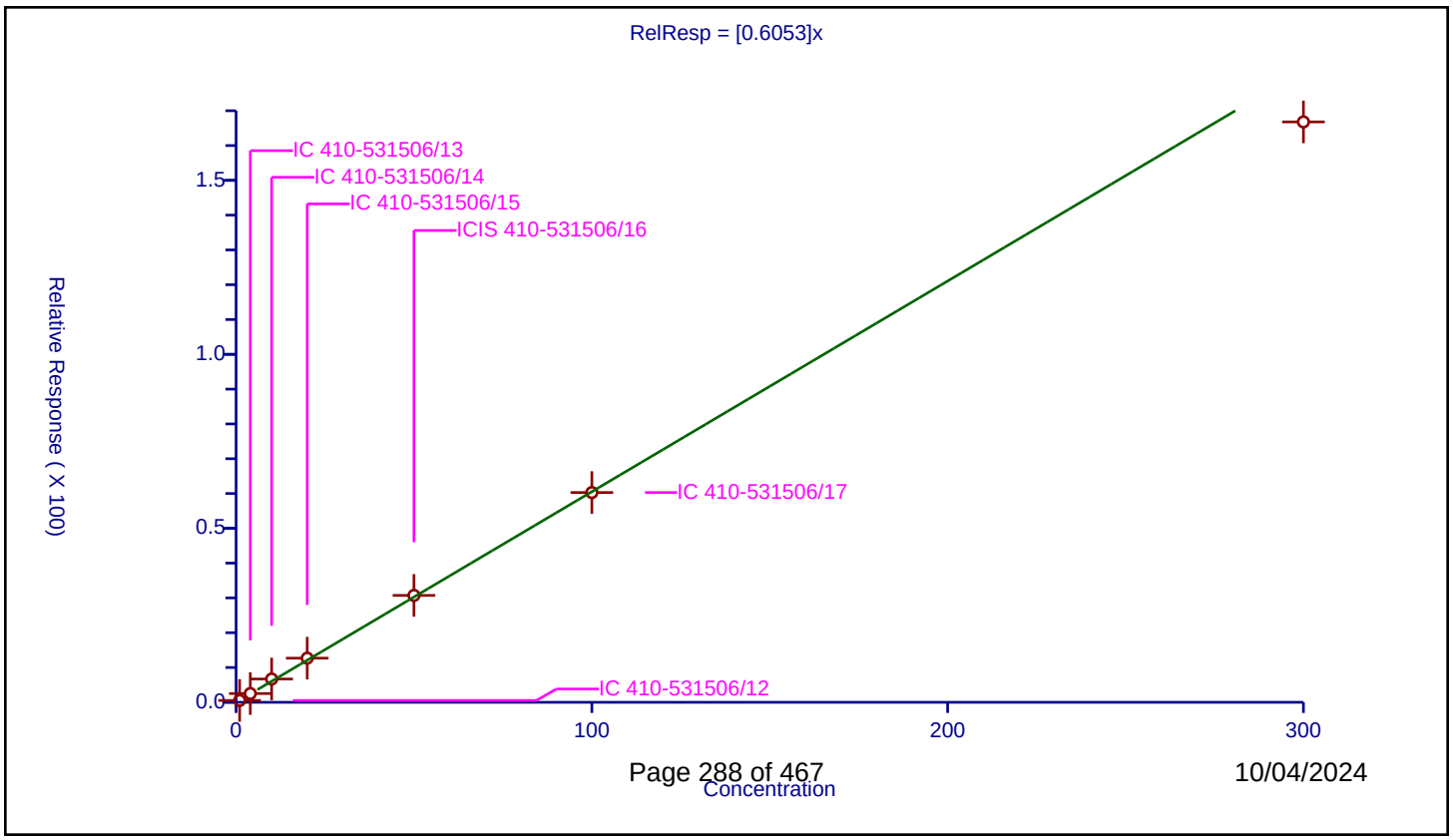
Curve Coefficients

Intercept:	0
Slope:	0.6053

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.529877	50.0	1349937.0	0.529877	Y
2	IC 410-531506/13	4.0	2.521822	50.0	1289742.0	0.630456	Y
3	IC 410-531506/14	10.0	6.690849	50.0	1319825.0	0.669085	Y
4	IC 410-531506/15	20.0	12.687566	50.0	1310606.0	0.634378	Y
5	ICIS 410-531506/16	50.0	30.724293	50.0	1347341.0	0.614486	Y
6	IC 410-531506/17	100.0	60.286995	50.0	1351138.0	0.60287	Y
7	IC 410-531506/18	300.0	166.800289	50.0	1365045.0	0.556001	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

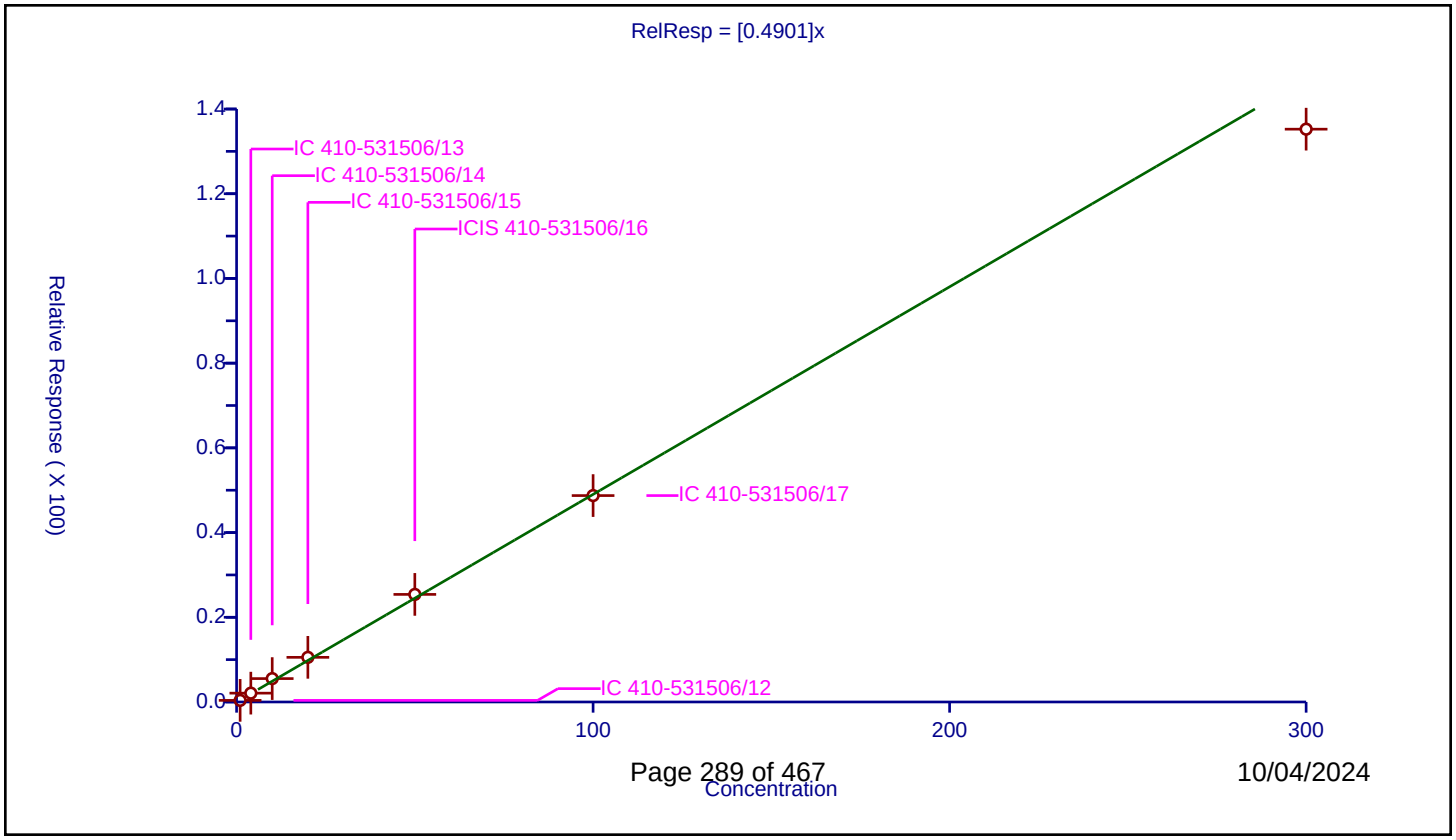
Curve Coefficients

Intercept:	0
Slope:	0.4901

Error Coefficients

Relative Standard Deviation:	11.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.382796	50.0	1349937.0	0.382796	Y
2	IC 410-531506/13	4.0	2.088829	50.0	1289742.0	0.522207	Y
3	IC 410-531506/14	10.0	5.527513	50.0	1319825.0	0.552751	Y
4	IC 410-531506/15	20.0	10.540429	50.0	1310606.0	0.527021	Y
5	ICIS 410-531506/16	50.0	25.398173	50.0	1347341.0	0.507963	Y
6	IC 410-531506/17	100.0	48.730885	50.0	1351138.0	0.487309	Y
7	IC 410-531506/18	300.0	135.241805	50.0	1365045.0	0.450806	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

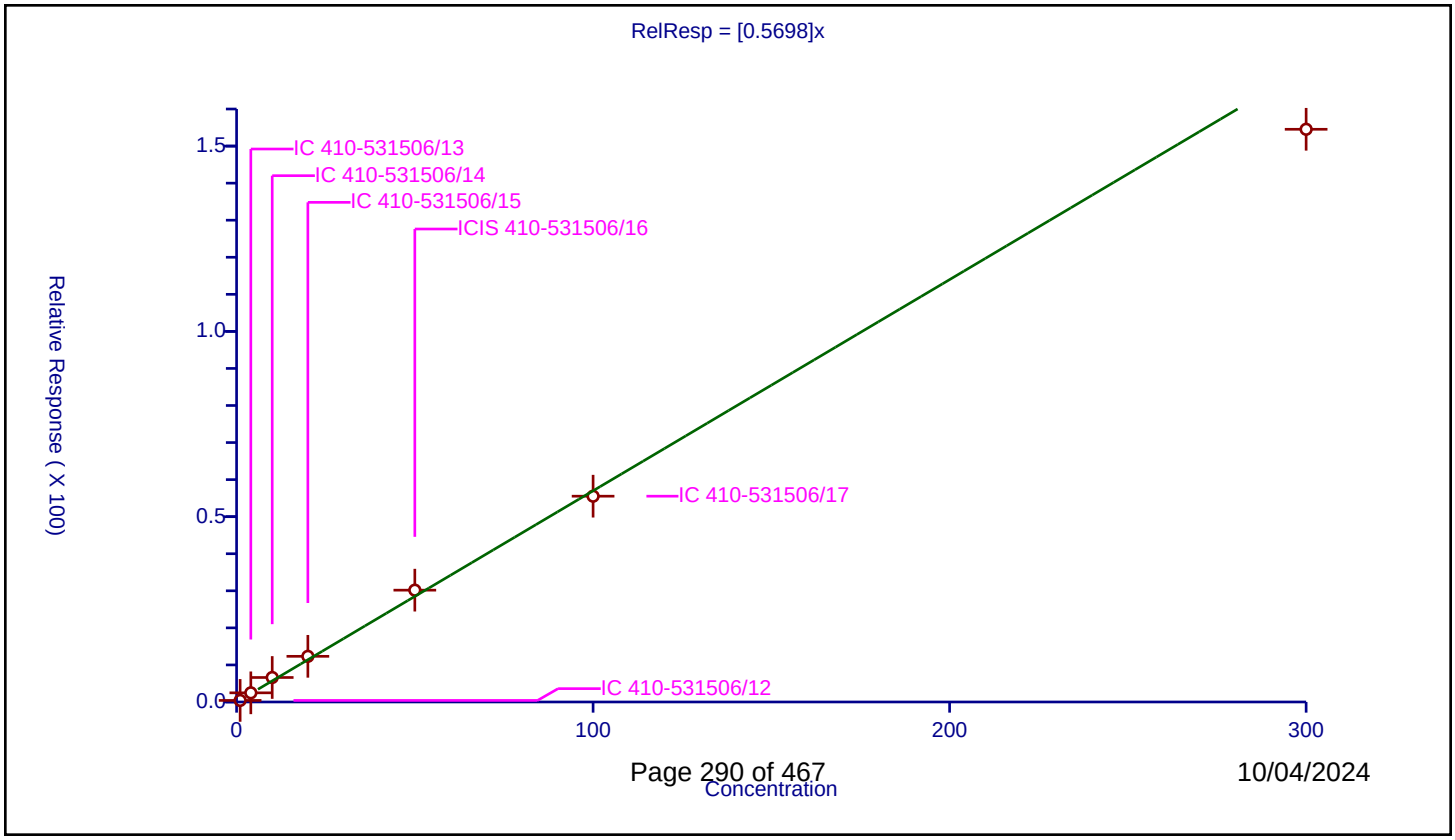
Curve Coefficients

Intercept:	0
Slope:	0.5698

Error Coefficients

Relative Standard Deviation:	14.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.420797	50.0	1349937.0	0.420797	Y
2	IC 410-531506/13	4.0	2.468672	50.0	1289742.0	0.617168	Y
3	IC 410-531506/14	10.0	6.609626	50.0	1319825.0	0.660963	Y
4	IC 410-531506/15	20.0	12.321018	50.0	1310606.0	0.616051	Y
5	ICIS 410-531506/16	50.0	30.176993	50.0	1347341.0	0.60354	Y
6	IC 410-531506/17	100.0	55.529783	50.0	1351138.0	0.555298	Y
7	IC 410-531506/18	300.0	154.530656	50.0	1365045.0	0.515102	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

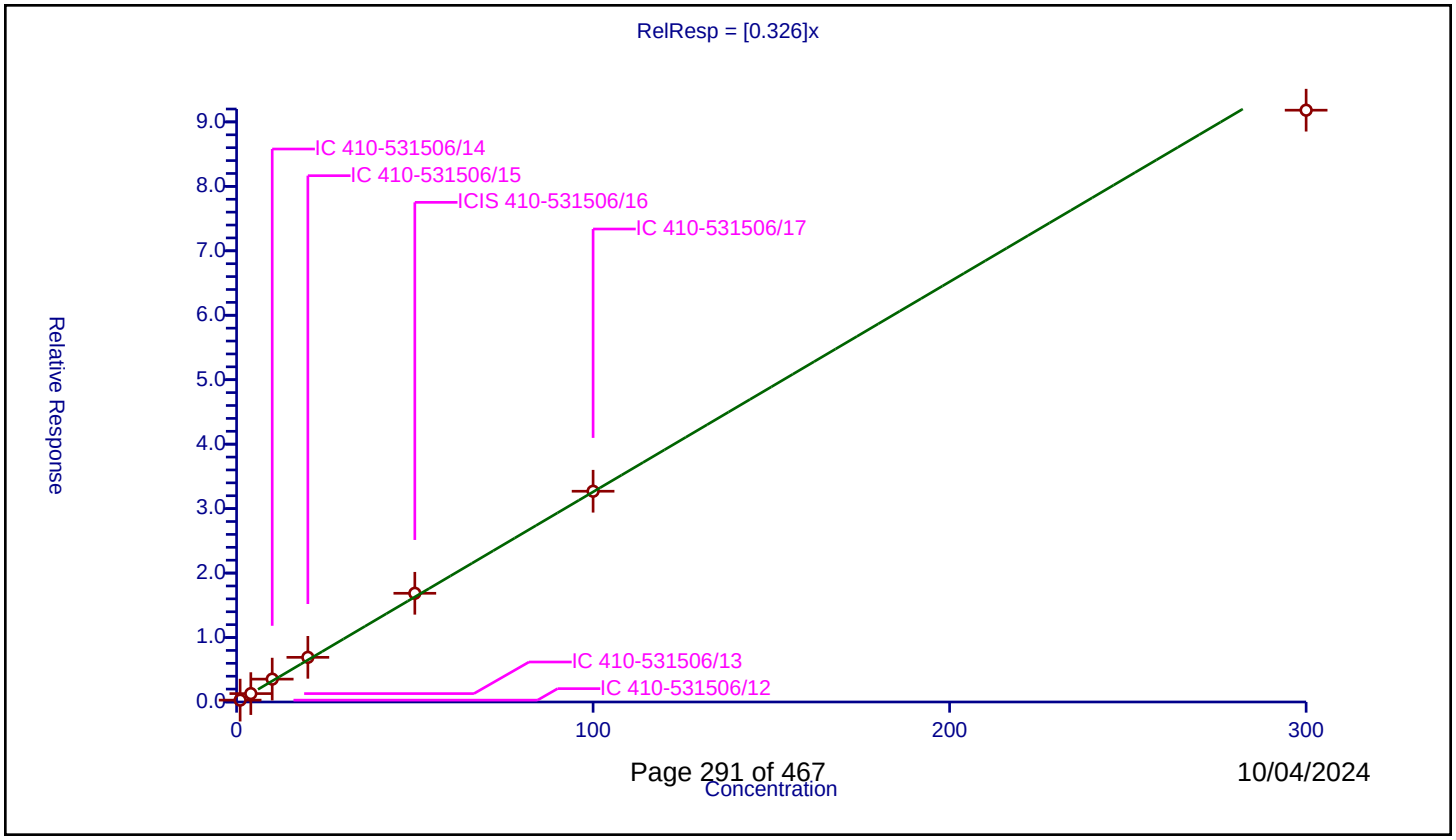
Curve Coefficients

Intercept:	0
Slope:	0.326

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.285495	50.0	1349937.0	0.285495	Y
2	IC 410-531506/13	4.0	1.299485	50.0	1289742.0	0.324871	Y
3	IC 410-531506/14	10.0	3.546455	50.0	1319825.0	0.354646	Y
4	IC 410-531506/15	20.0	6.926719	50.0	1310606.0	0.346336	Y
5	ICIS 410-531506/16	50.0	16.867519	50.0	1347341.0	0.33735	Y
6	IC 410-531506/17	100.0	32.699288	50.0	1351138.0	0.326993	Y
7	IC 410-531506/18	300.0	91.817522	50.0	1365045.0	0.306058	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

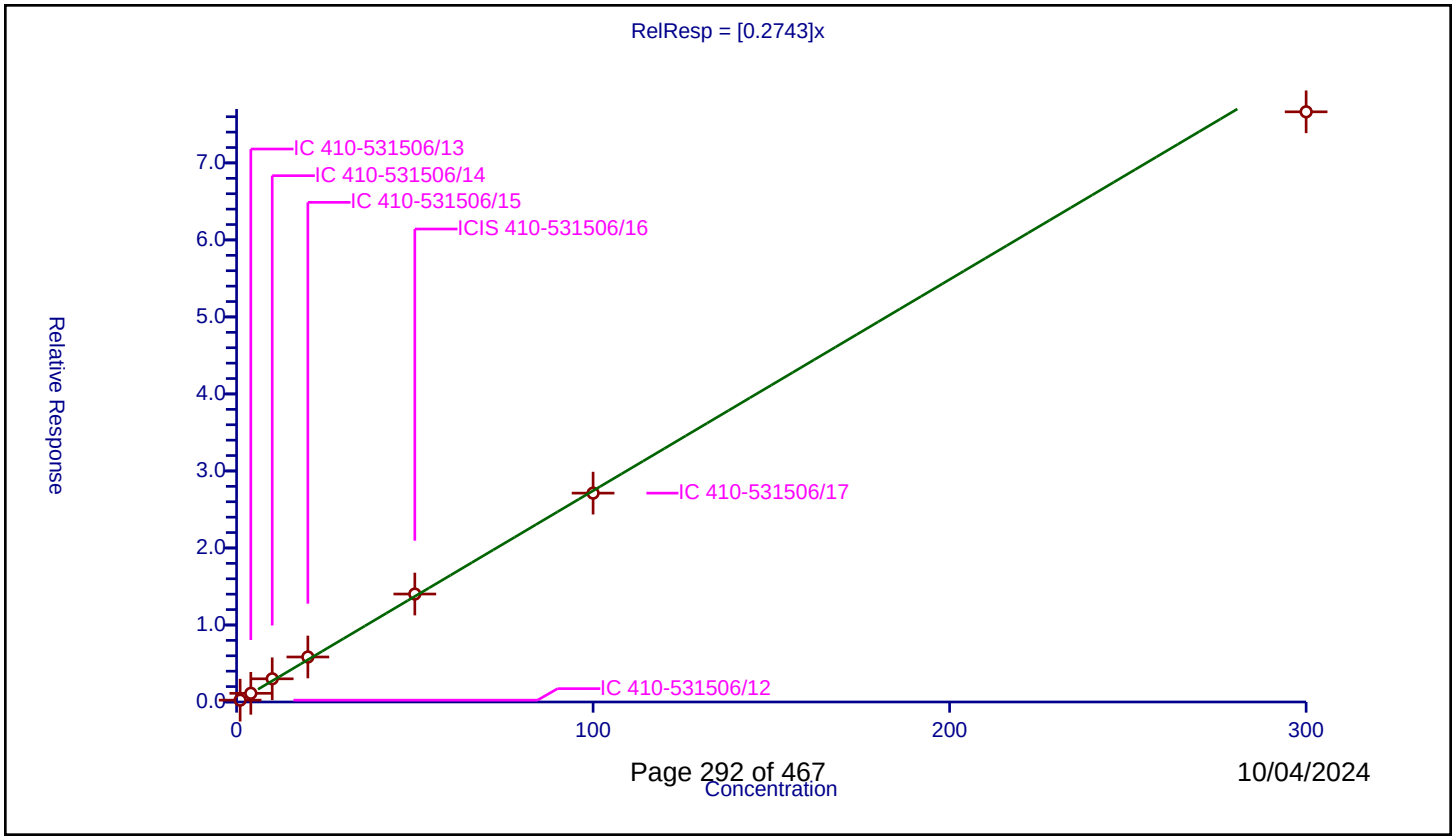
Curve Coefficients

Intercept:	0
Slope:	0.2743

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.238159	50.0	1349937.0	0.238159	Y
2	IC 410-531506/13	4.0	1.127474	50.0	1289742.0	0.281868	Y
3	IC 410-531506/14	10.0	3.009187	50.0	1319825.0	0.300919	Y
4	IC 410-531506/15	20.0	5.843175	50.0	1310606.0	0.292159	Y
5	ICIS 410-531506/16	50.0	14.019354	50.0	1347341.0	0.280387	Y
6	IC 410-531506/17	100.0	27.121323	50.0	1351138.0	0.271213	Y
7	IC 410-531506/18	300.0	76.636851	50.0	1365045.0	0.255456	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

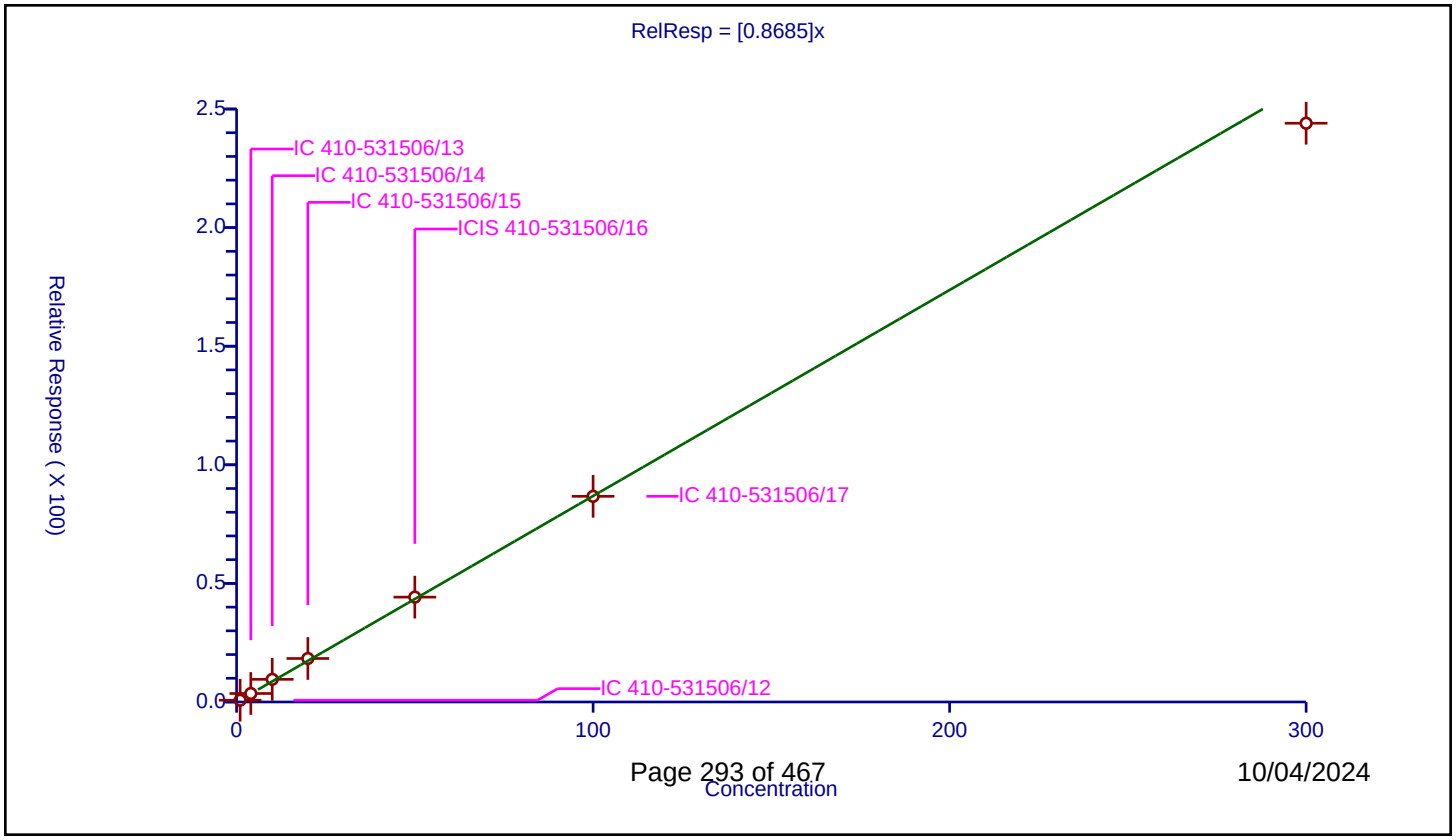
Curve Coefficients

Intercept:	0
Slope:	0.8685

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.74785	50.0	1349937.0	0.74785	Y
2	IC 410-531506/13	4.0	3.579088	50.0	1289742.0	0.894772	Y
3	IC 410-531506/14	10.0	9.546985	50.0	1319825.0	0.954699	Y
4	IC 410-531506/15	20.0	18.344911	50.0	1310606.0	0.917246	Y
5	ICIS 410-531506/16	50.0	44.212453	50.0	1347341.0	0.884249	Y
6	IC 410-531506/17	100.0	86.705244	50.0	1351138.0	0.867052	Y
7	IC 410-531506/18	300.0	244.010161	50.0	1365045.0	0.813367	Y



Calibration / Pentane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

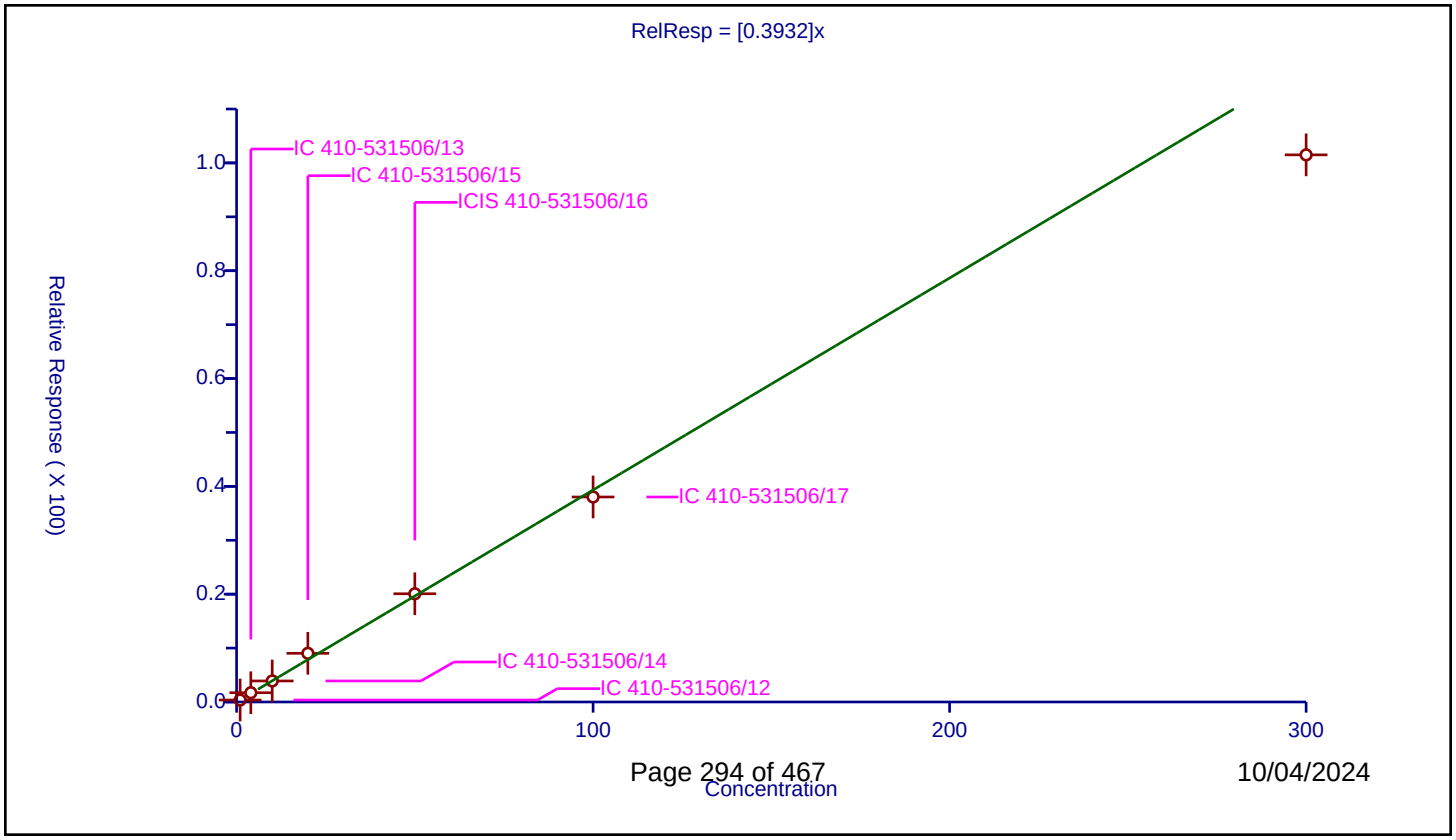
Curve Coefficients

Intercept:	0
Slope:	0.3932

Error Coefficients

Relative Standard Deviation:	9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.361313	50.0	1349937.0	0.361313	Y
2	IC 410-531506/13	4.0	1.718212	50.0	1289742.0	0.429553	Y
3	IC 410-531506/14	10.0	3.902373	50.0	1319825.0	0.390237	Y
4	IC 410-531506/15	20.0	9.030174	50.0	1310606.0	0.451509	Y
5	ICIS 410-531506/16	50.0	20.075133	50.0	1347341.0	0.401503	Y
6	IC 410-531506/17	100.0	38.029757	50.0	1351138.0	0.380298	Y
7	IC 410-531506/18	300.0	101.495189	50.0	1365045.0	0.338317	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

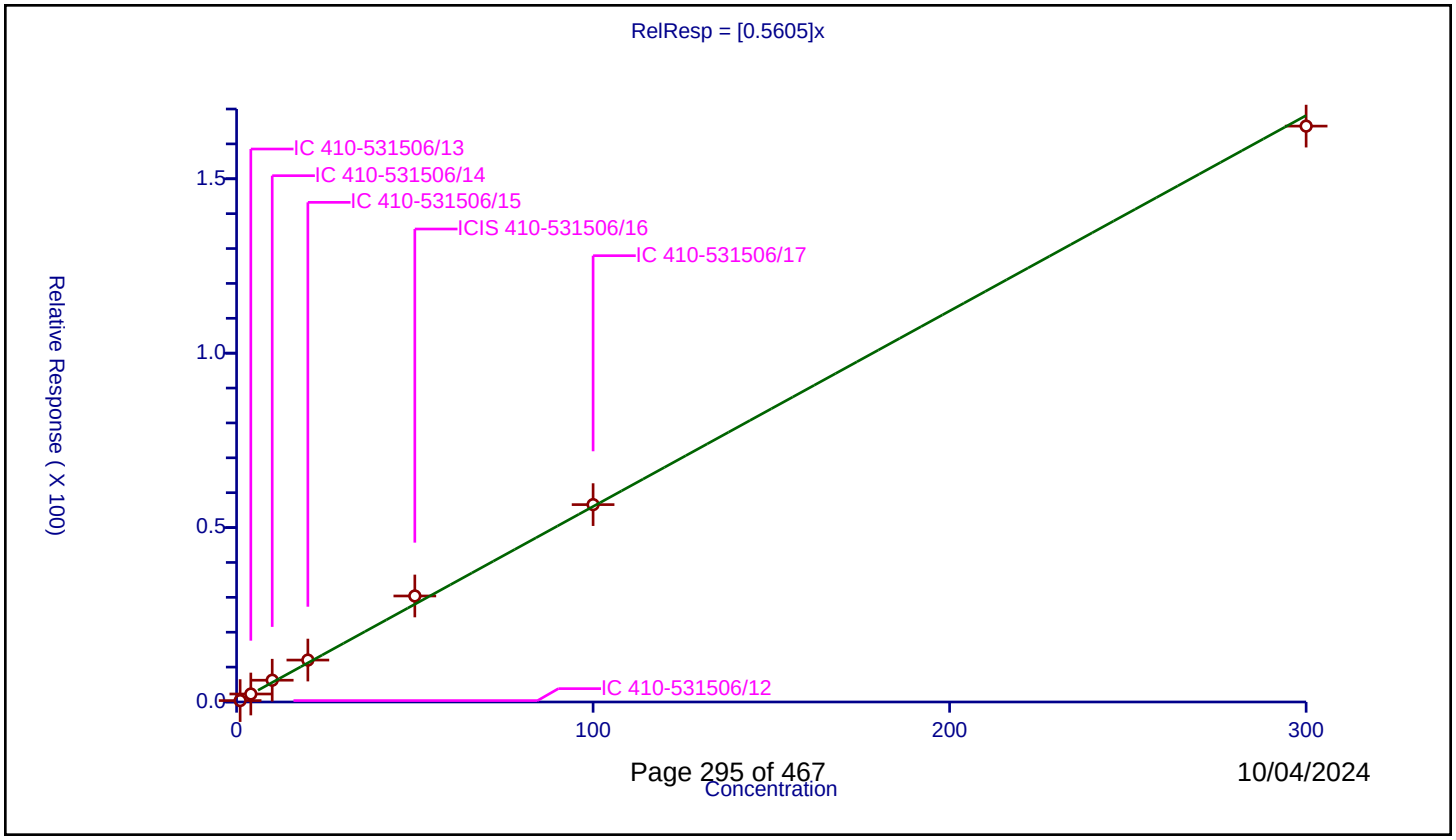
Curve Coefficients

Intercept:	0
Slope:	0.5605

Error Coefficients

Relative Standard Deviation:	13.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.401834	50.0	1349937.0	0.401834	Y
2	IC 410-531506/13	4.0	2.288907	50.0	1289742.0	0.572227	Y
3	IC 410-531506/14	10.0	6.244237	50.0	1319825.0	0.624424	Y
4	IC 410-531506/15	20.0	12.01902	50.0	1310606.0	0.600951	Y
5	ICIS 410-531506/16	50.0	30.391378	50.0	1347341.0	0.607828	Y
6	IC 410-531506/17	100.0	56.581674	50.0	1351138.0	0.565817	Y
7	IC 410-531506/18	300.0	165.099392	50.0	1365045.0	0.550331	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

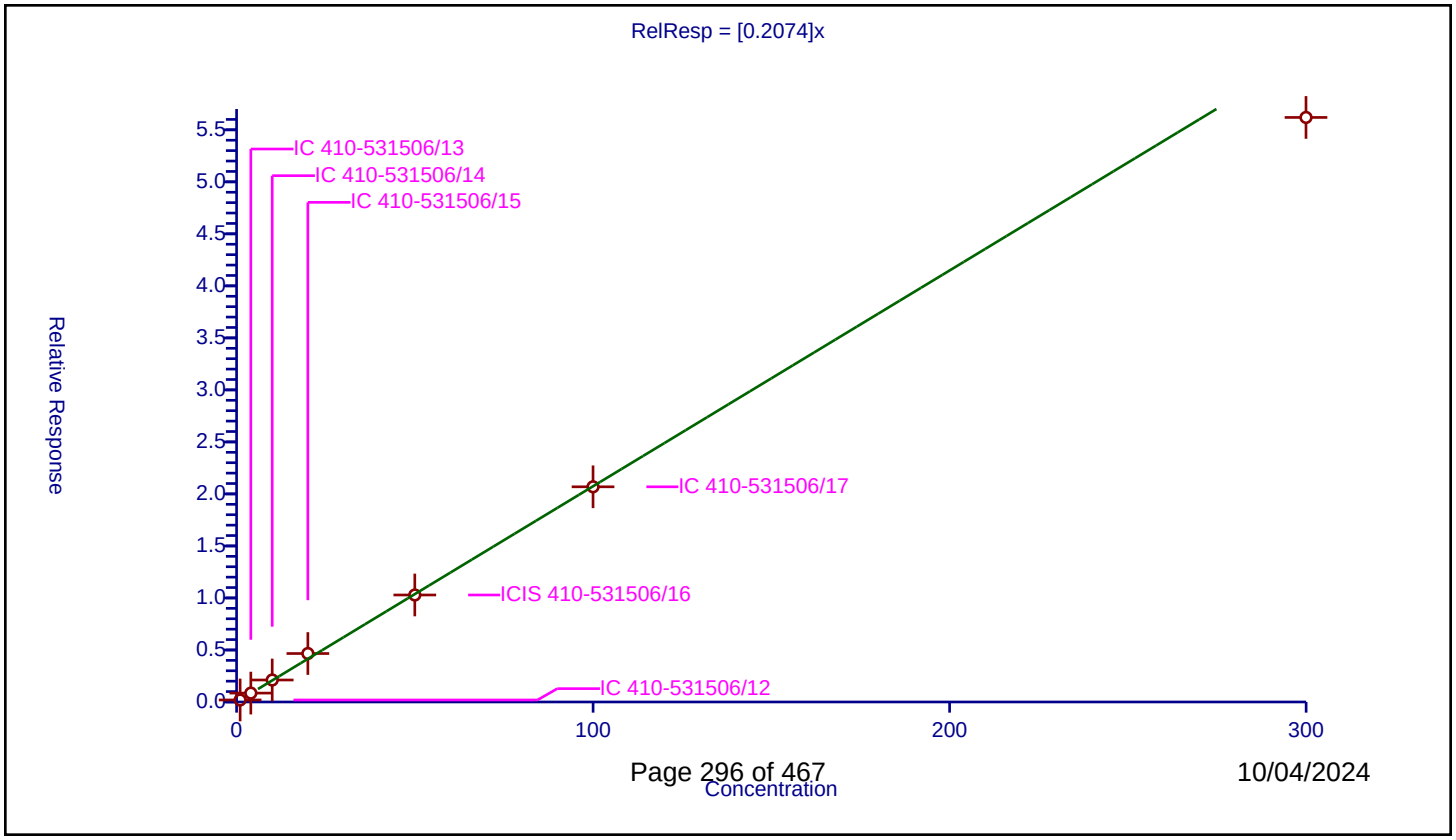
Curve Coefficients

Intercept:	0
Slope:	0.2074

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	0.999897	0.193824	50.0	1349937.0	0.193844	Y
2	IC 410-531506/13	3.999587	0.854706	50.0	1289742.0	0.213699	Y
3	IC 410-531506/14	9.998968	2.112894	50.0	1319825.0	0.211311	Y
4	IC 410-531506/15	19.997936	4.659791	50.0	1310606.0	0.233014	Y
5	ICIS 410-531506/16	49.99484	10.284219	50.0	1347341.0	0.205706	Y
6	IC 410-531506/17	99.98968	20.684416	50.0	1351138.0	0.206866	Y
7	IC 410-531506/18	299.96904	56.189833	50.0	1365045.0	0.187319	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

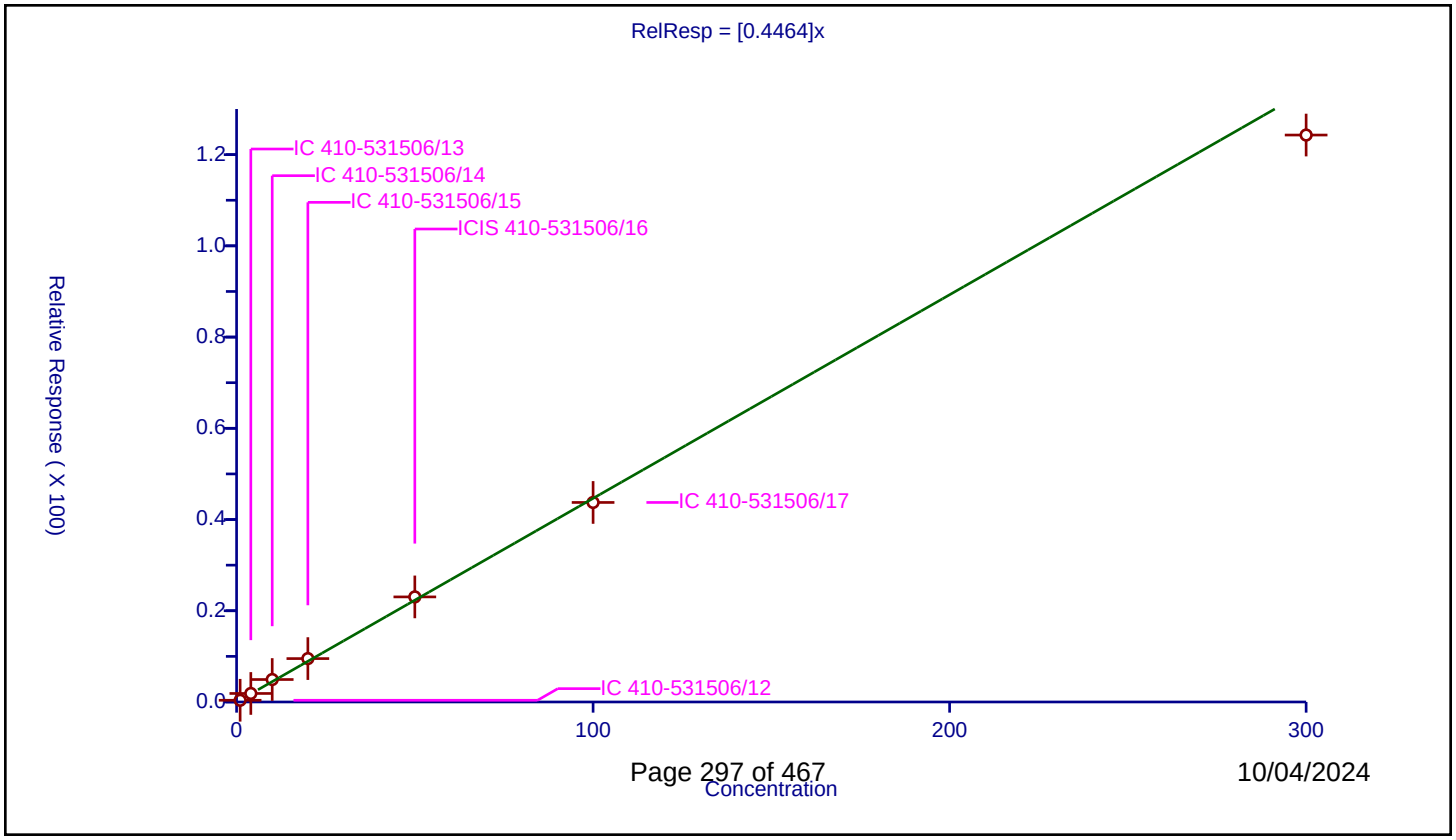
Curve Coefficients

Intercept:	0
Slope:	0.4464

Error Coefficients

Relative Standard Deviation:	9.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.376684	50.0	1349937.0	0.376684	Y
2	IC 410-531506/13	4.0	1.869521	50.0	1289742.0	0.46738	Y
3	IC 410-531506/14	10.0	4.924327	50.0	1319825.0	0.492433	Y
4	IC 410-531506/15	20.0	9.516056	50.0	1310606.0	0.475803	Y
5	ICIS 410-531506/16	50.0	23.03949	50.0	1347341.0	0.46079	Y
6	IC 410-531506/17	100.0	43.745198	50.0	1351138.0	0.437452	Y
7	IC 410-531506/18	300.0	124.29451	50.0	1365045.0	0.414315	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

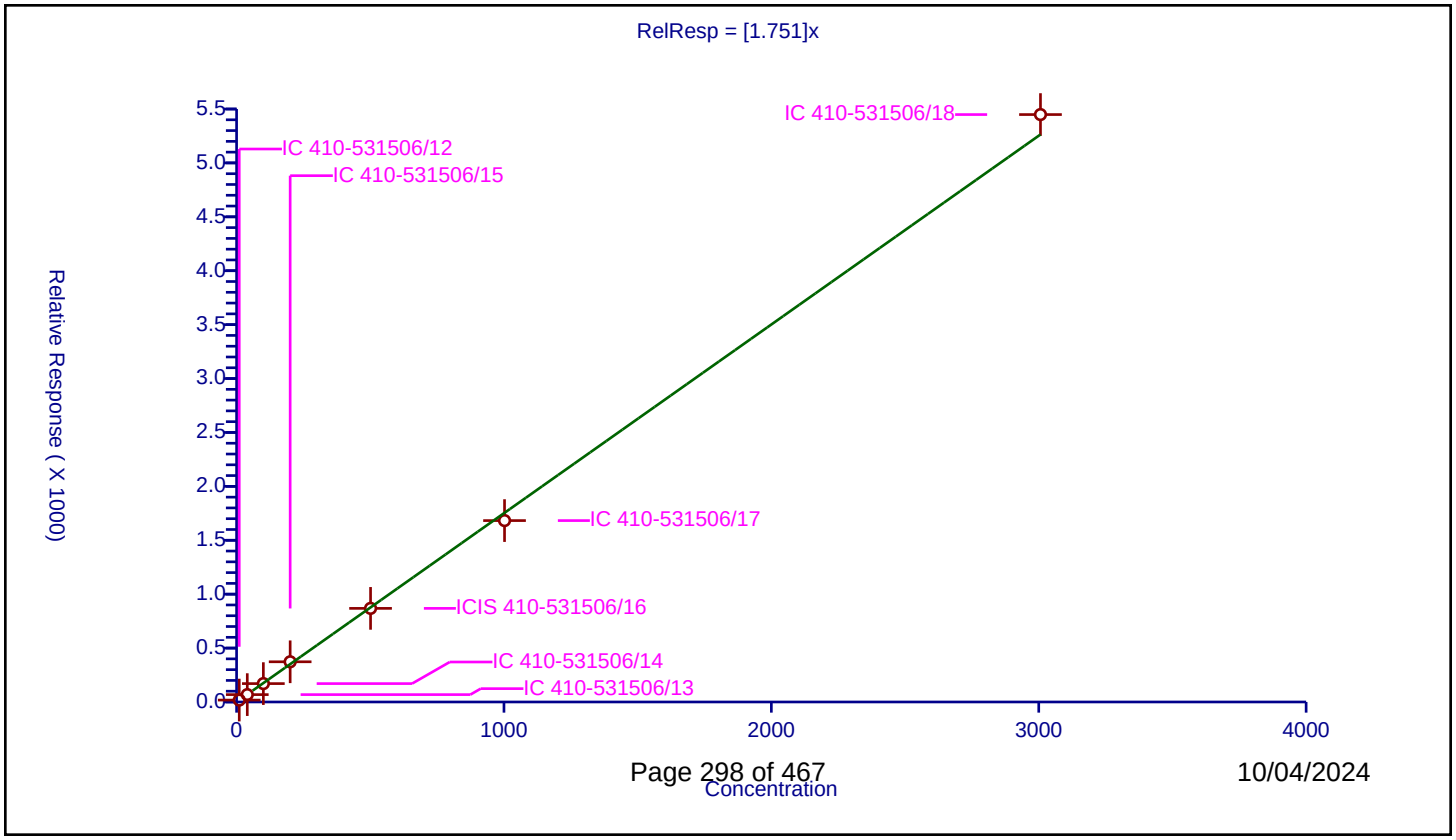
Curve Coefficients

Intercept:	0
Slope:	1.751

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	10.021748	17.656965	250.0	468512.0	1.761865	Y
2	IC 410-531506/13	40.086992	68.424192	250.0	466034.0	1.706893	Y
3	IC 410-531506/14	100.217479	170.573473	250.0	493903.0	1.702033	Y
4	IC 410-531506/15	200.434958	372.779603	250.0	469567.0	1.859853	Y
5	ICIS 410-531506/16	501.087394	868.406245	250.0	479829.0	1.733043	Y
6	IC 410-531506/17	1002.174788	1682.481152	250.0	532007.0	1.67883	Y
7	IC 410-531506/18	3006.524365	5448.55188	250.0	439190.0	1.812243	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

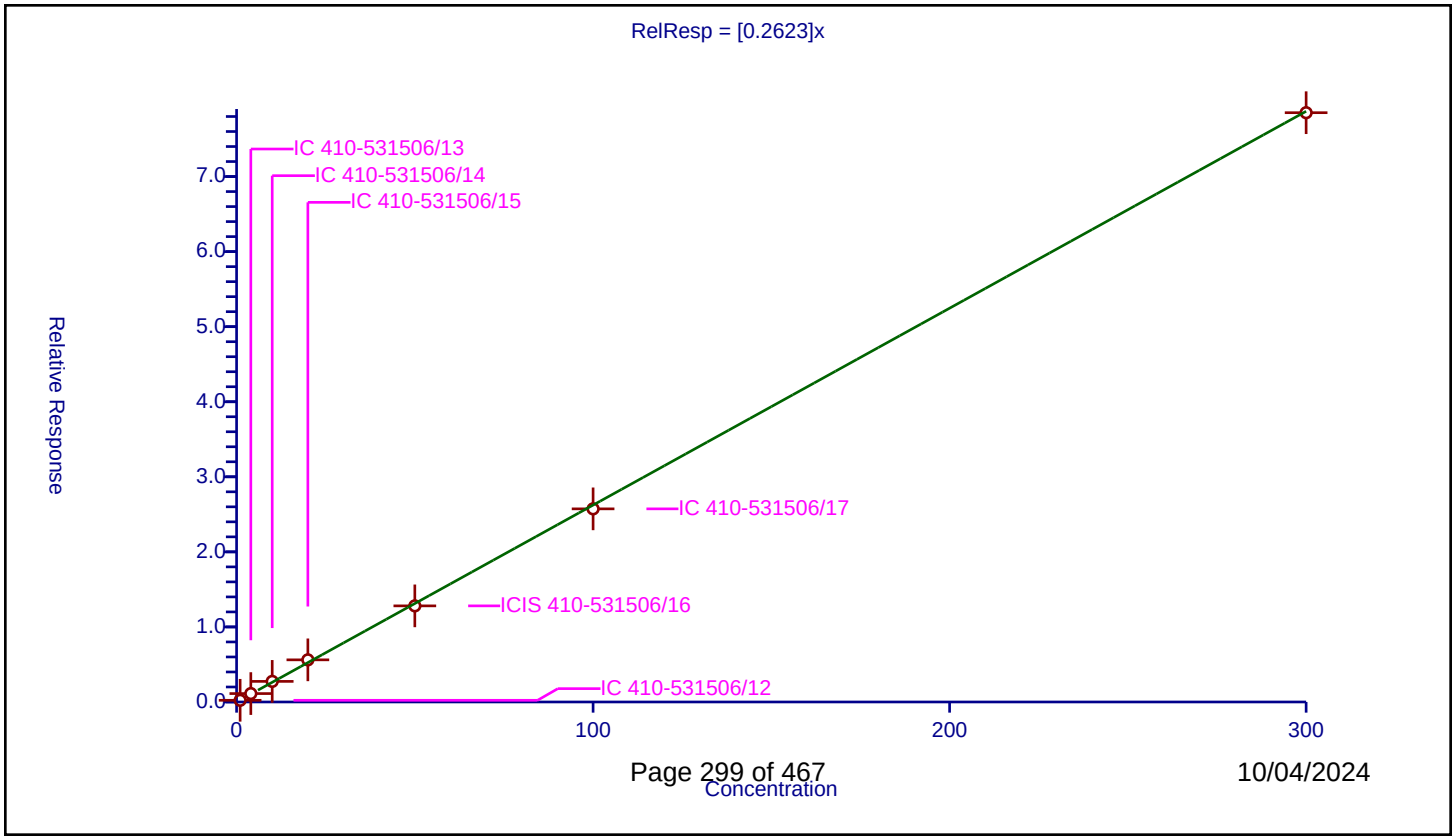
Curve Coefficients

Intercept:	0
Slope:	0.2623

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.225825	50.0	1349937.0	0.225825	Y
2	IC 410-531506/13	4.0	1.120961	50.0	1289742.0	0.28024	Y
3	IC 410-531506/14	10.0	2.743887	50.0	1319825.0	0.274389	Y
4	IC 410-531506/15	20.0	5.613357	50.0	1310606.0	0.280668	Y
5	ICIS 410-531506/16	50.0	12.805333	50.0	1347341.0	0.256107	Y
6	IC 410-531506/17	100.0	25.729866	50.0	1351138.0	0.257299	Y
7	IC 410-531506/18	300.0	78.508035	50.0	1365045.0	0.261693	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

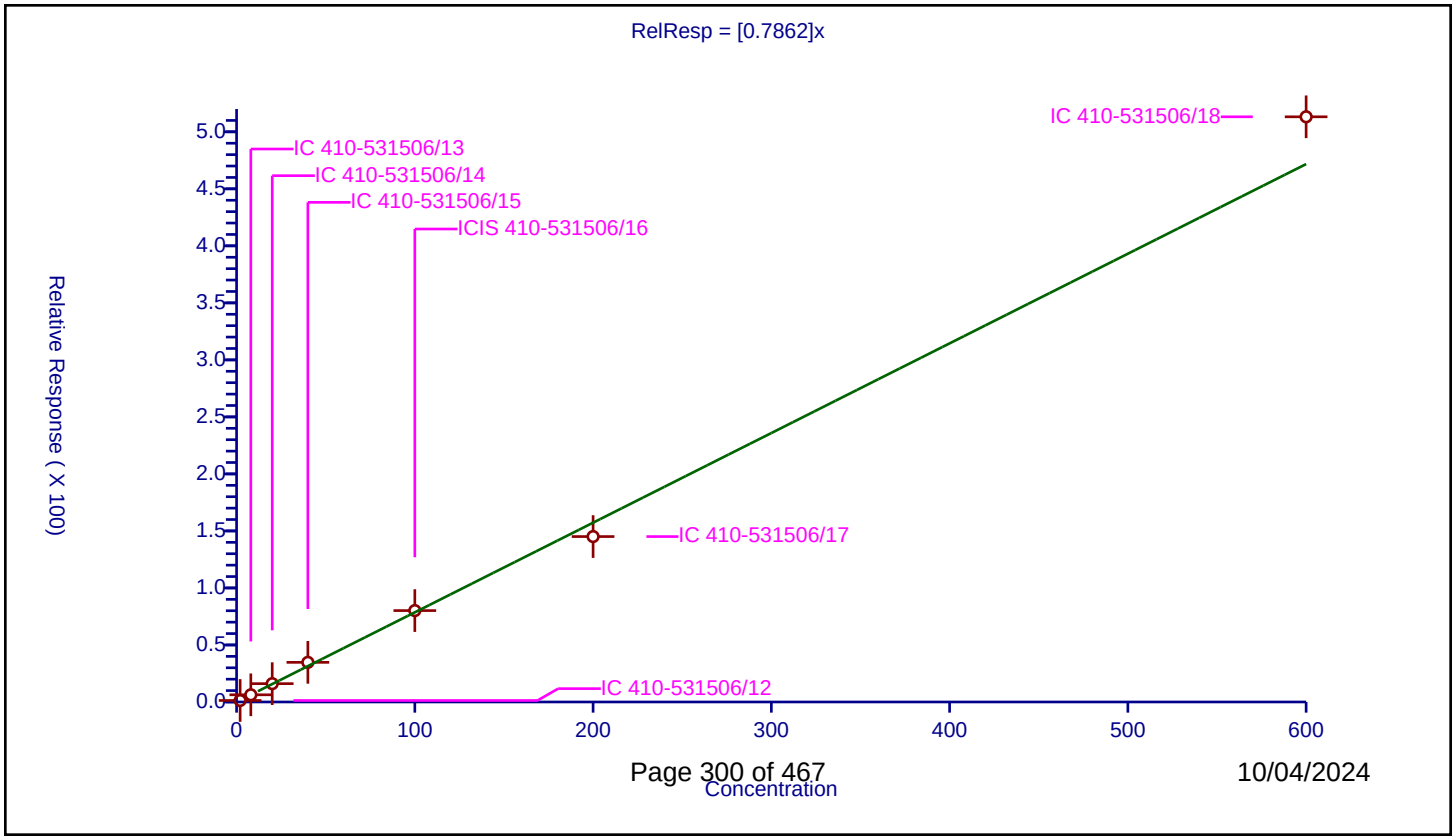
Curve Coefficients

Intercept:	0
Slope:	0.7862

Error Coefficients

Relative Standard Deviation:	9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	2.0	1.321204	250.0	468512.0	0.660602	Y
2	IC 410-531506/13	8.0	6.30748	250.0	466034.0	0.788435	Y
3	IC 410-531506/14	20.0	16.067426	250.0	493903.0	0.803371	Y
4	IC 410-531506/15	40.0	34.752229	250.0	469567.0	0.868806	Y
5	ICIS 410-531506/16	100.0	80.150429	250.0	479829.0	0.801504	Y
6	IC 410-531506/17	200.0	145.072809	250.0	532007.0	0.725364	Y
7	IC 410-531506/18	600.0	513.16173	250.0	439190.0	0.85527	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

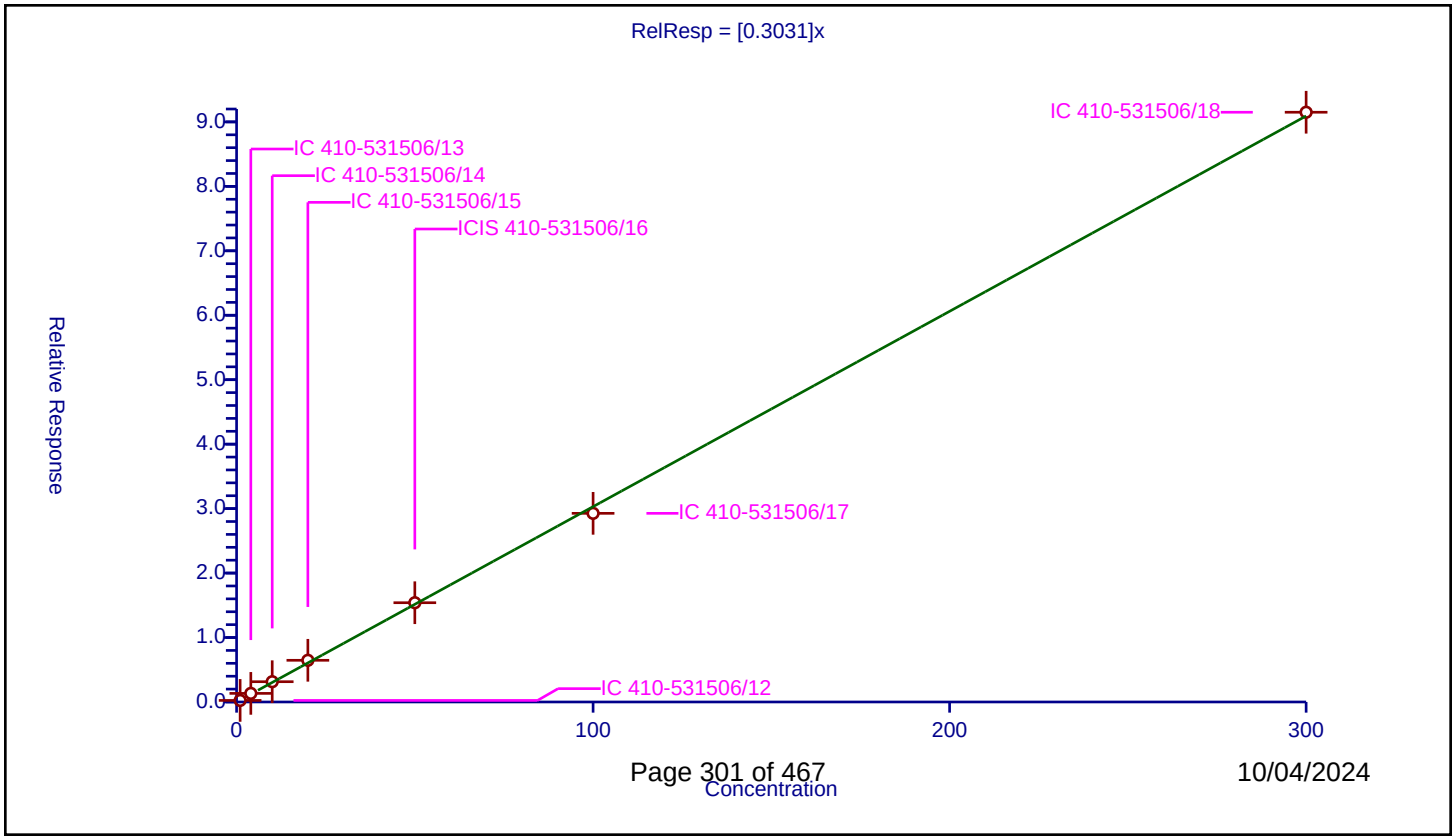
Curve Coefficients

Intercept:	0
Slope:	0.3031

Error Coefficients

Relative Standard Deviation:	9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.243789	50.0	1349937.0	0.243789	Y
2	IC 410-531506/13	4.0	1.334569	50.0	1289742.0	0.333642	Y
3	IC 410-531506/14	10.0	3.147728	50.0	1319825.0	0.314773	Y
4	IC 410-531506/15	20.0	6.470251	50.0	1310606.0	0.323513	Y
5	ICIS 410-531506/16	50.0	15.400444	50.0	1347341.0	0.308009	Y
6	IC 410-531506/17	100.0	29.269697	50.0	1351138.0	0.292697	Y
7	IC 410-531506/18	300.0	91.499877	50.0	1365045.0	0.305	Y



Calibration / Isopropyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

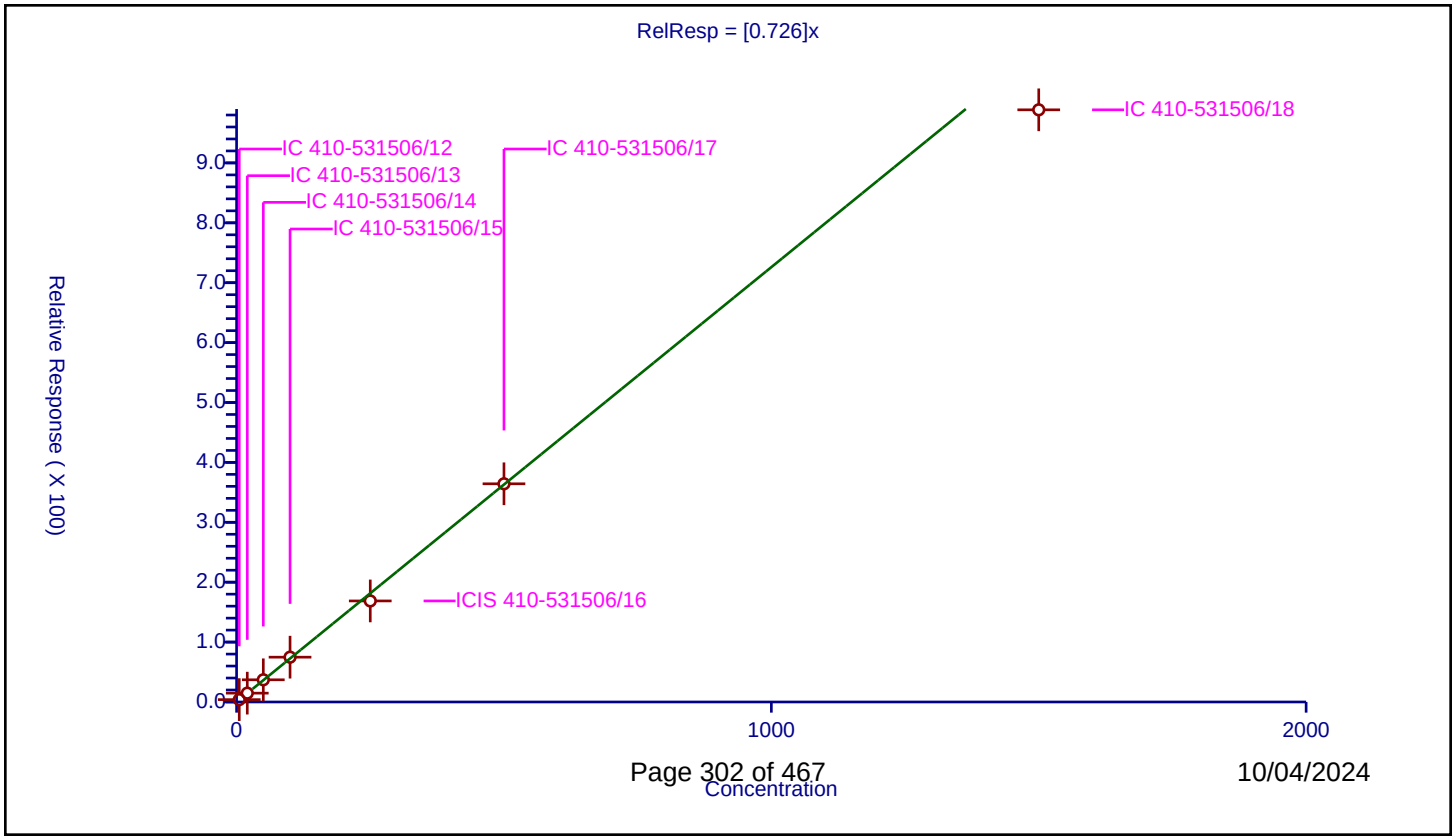
Curve Coefficients

Intercept:	0
Slope:	0.726

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	5.0	3.958276	250.0	468512.0	0.791655	Y
2	IC 410-531506/13	20.0	14.753752	250.0	466034.0	0.737688	Y
3	IC 410-531506/14	50.0	37.082686	250.0	493903.0	0.741654	Y
4	IC 410-531506/15	100.0	74.834369	250.0	469567.0	0.748344	Y
5	ICIS 410-531506/16	250.0	168.72886	250.0	479829.0	0.674915	Y
6	IC 410-531506/17	500.0	364.279511	250.0	532007.0	0.728559	Y
7	IC 410-531506/18	1500.0	988.647282	250.0	439190.0	0.659098	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

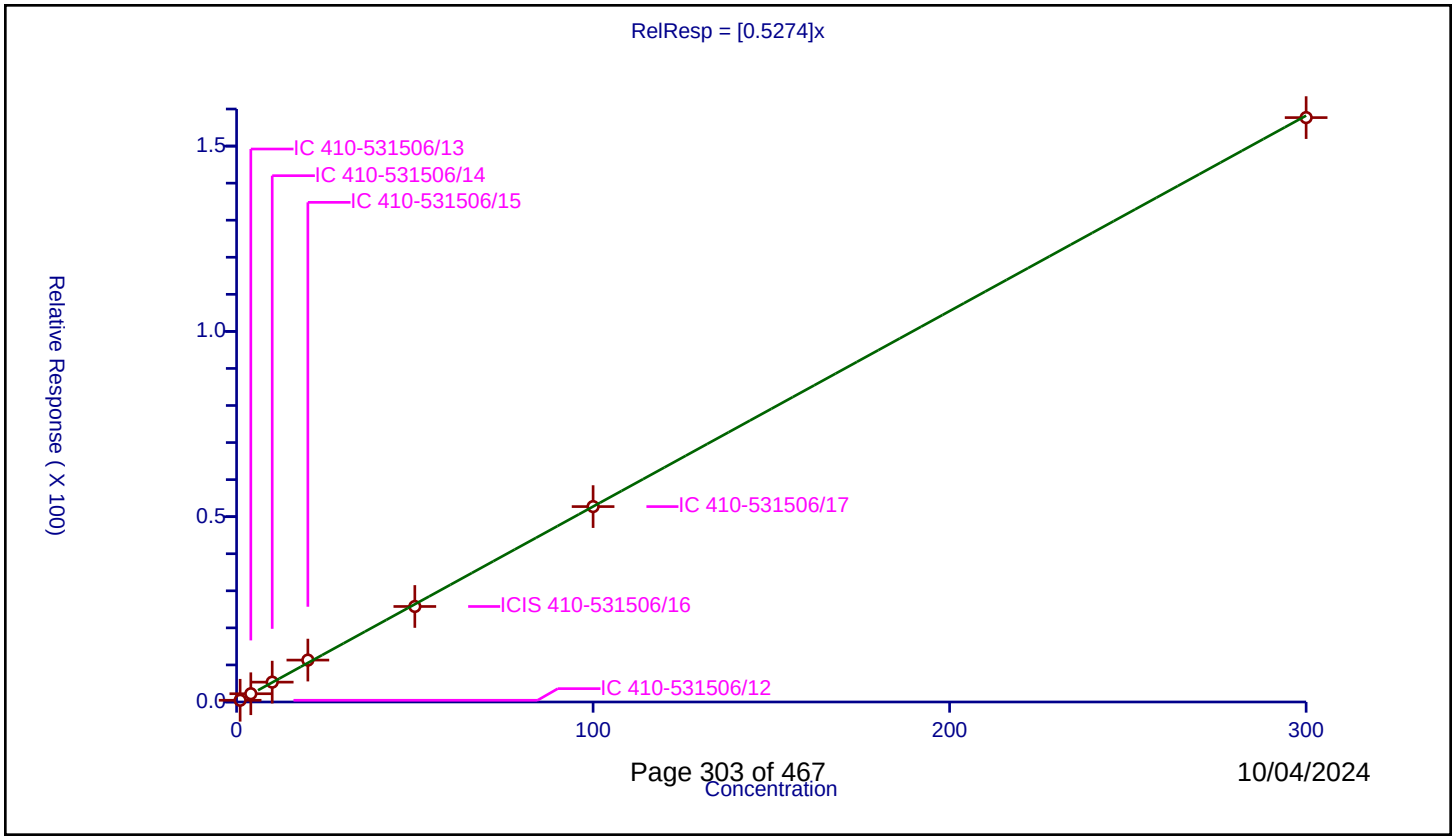
Curve Coefficients

Intercept:	0
Slope:	0.5274

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.465244	50.0	1349937.0	0.465244	Y
2	IC 410-531506/13	4.0	2.229438	50.0	1289742.0	0.55736	Y
3	IC 410-531506/14	10.0	5.356316	50.0	1319825.0	0.535632	Y
4	IC 410-531506/15	20.0	11.305572	50.0	1310606.0	0.565279	Y
5	ICIS 410-531506/16	50.0	25.76664	50.0	1347341.0	0.515333	Y
6	IC 410-531506/17	100.0	52.726294	50.0	1351138.0	0.527263	Y
7	IC 410-531506/18	300.0	157.684765	50.0	1365045.0	0.525616	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

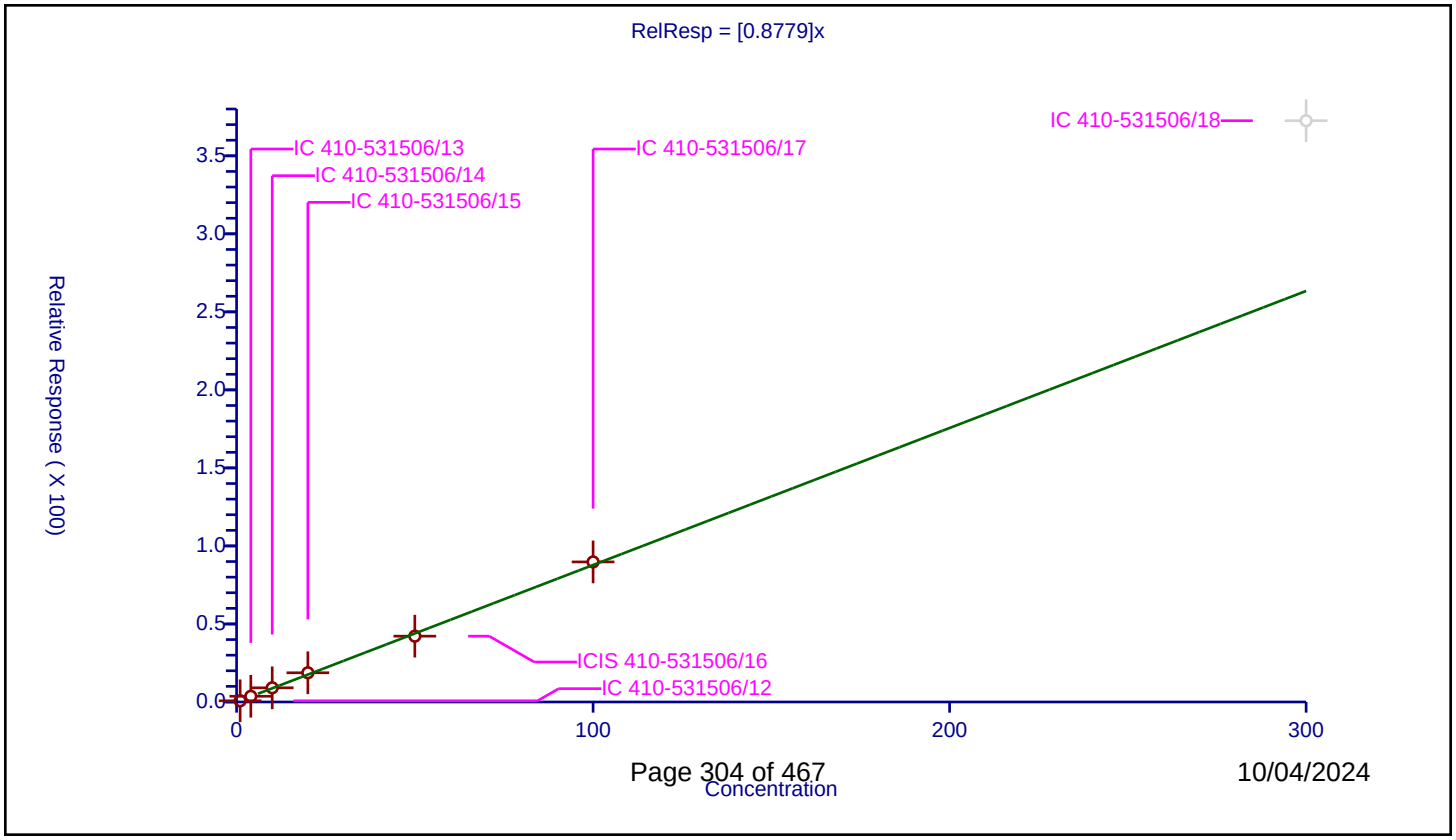
Curve Coefficients

Intercept:	0
Slope:	0.8779

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.765962	50.0	1349937.0	0.765962	Y
2	IC 410-531506/13	4.0	3.663446	50.0	1289742.0	0.915861	Y
3	IC 410-531506/14	10.0	9.087493	50.0	1319825.0	0.908749	Y
4	IC 410-531506/15	20.0	18.713977	50.0	1310606.0	0.935699	Y
5	ICIS 410-531506/16	50.0	42.192325	50.0	1347341.0	0.843847	Y
6	IC 410-531506/17	100.0	89.752268	50.0	1351138.0	0.897523	Y
7	IC 410-531506/18	300.0	372.521895	50.0	1365045.0	1.24174	N



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

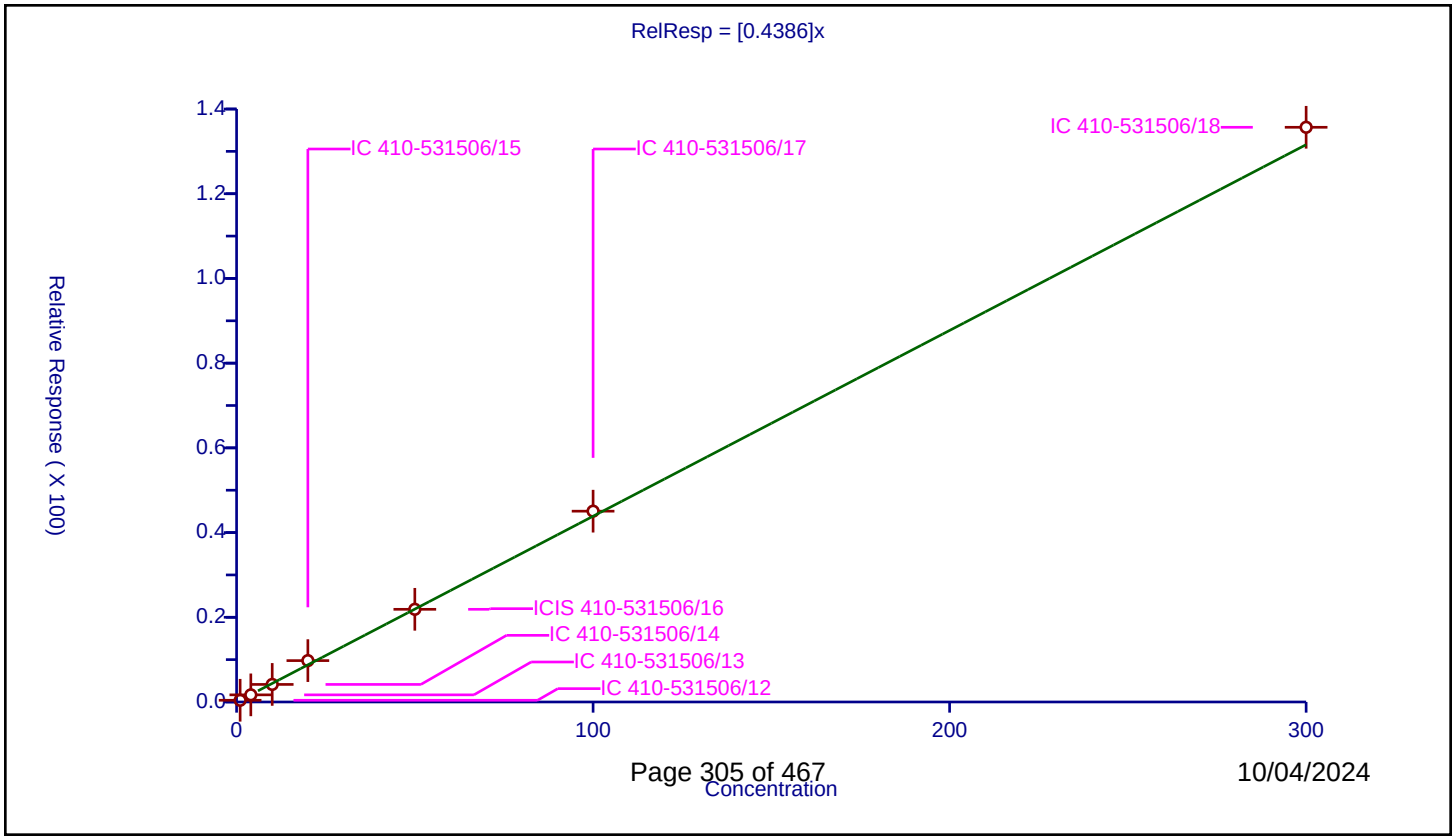
Curve Coefficients

Intercept:	0
Slope:	0.4386

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.40576	50.0	1349937.0	0.40576	Y
2	IC 410-531506/13	4.0	1.685453	50.0	1289742.0	0.421363	Y
3	IC 410-531506/14	10.0	4.144148	50.0	1319825.0	0.414415	Y
4	IC 410-531506/15	20.0	9.765139	50.0	1310606.0	0.488257	Y
5	ICIS 410-531506/16	50.0	21.880207	50.0	1347341.0	0.437604	Y
6	IC 410-531506/17	100.0	45.051912	50.0	1351138.0	0.450519	Y
7	IC 410-531506/18	300.0	135.685124	50.0	1365045.0	0.452284	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

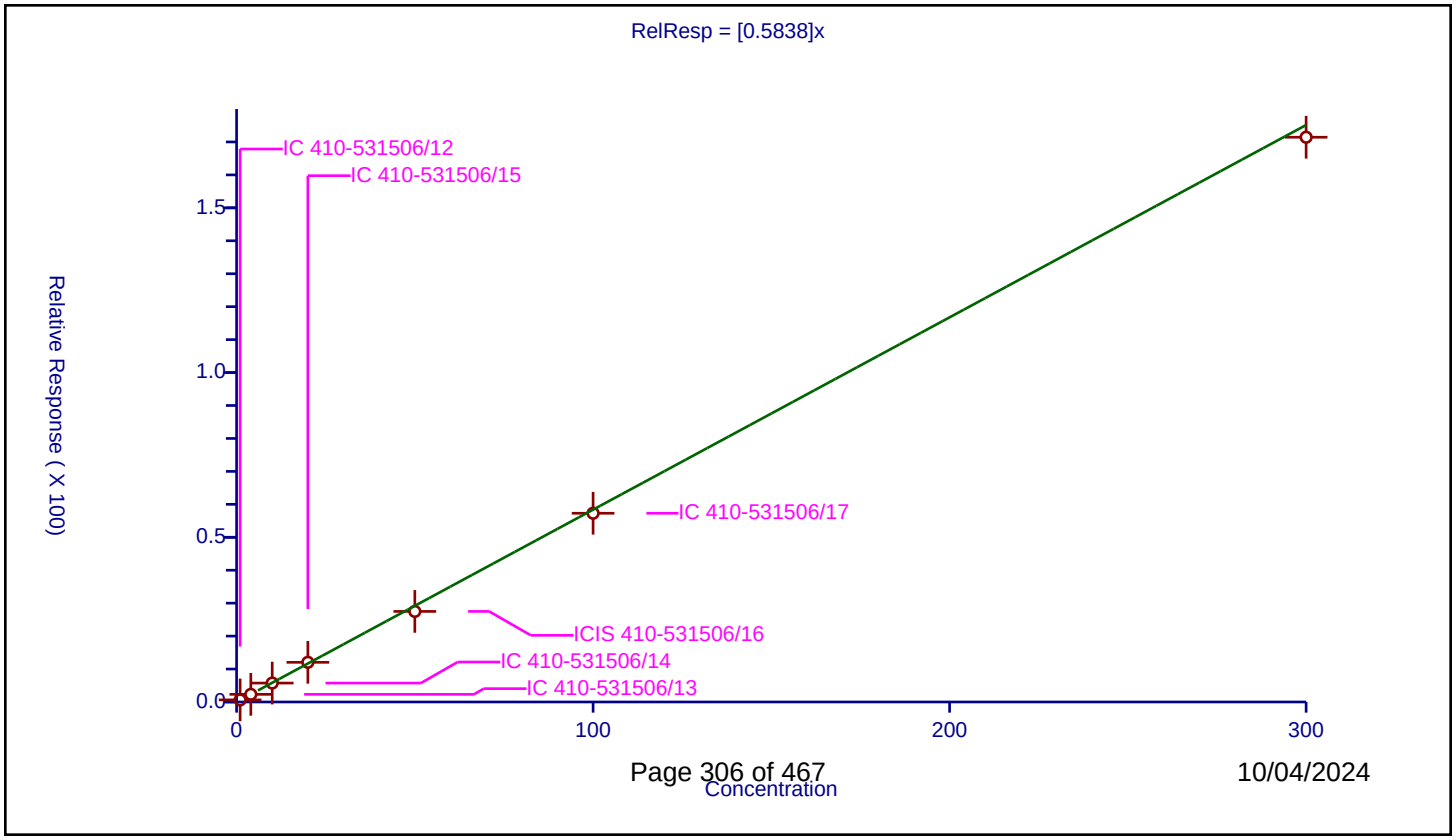
Curve Coefficients

Intercept:	0
Slope:	0.5838

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.637067	50.0	1349937.0	0.637067	Y
2	IC 410-531506/13	4.0	2.315928	50.0	1289742.0	0.578982	Y
3	IC 410-531506/14	10.0	5.742845	50.0	1319825.0	0.574284	Y
4	IC 410-531506/15	20.0	12.041796	50.0	1310606.0	0.60209	Y
5	ICIS 410-531506/16	50.0	27.492372	50.0	1347341.0	0.549847	Y
6	IC 410-531506/17	100.0	57.29226	50.0	1351138.0	0.572923	Y
7	IC 410-531506/18	300.0	171.436436	50.0	1365045.0	0.571455	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

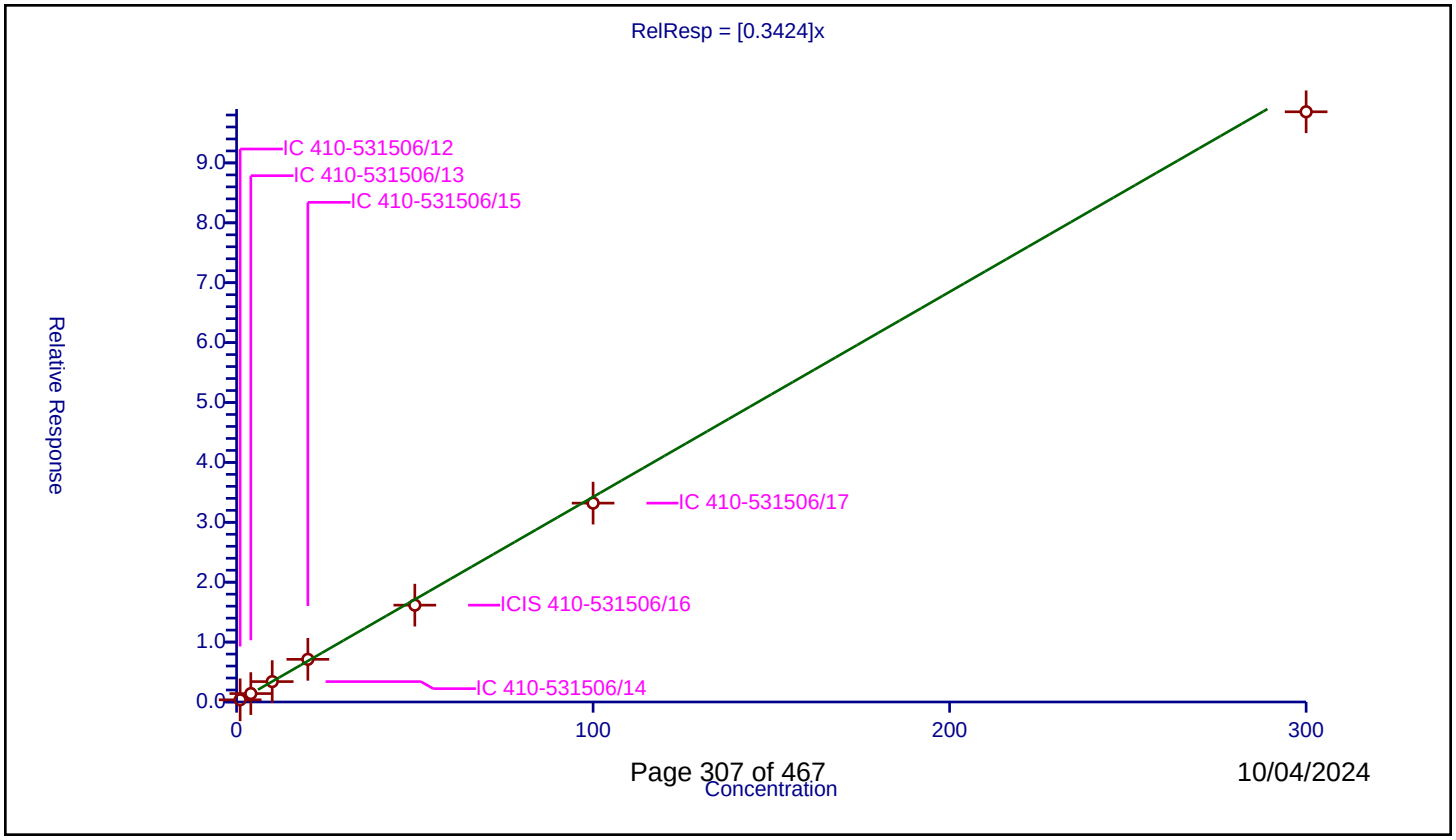
Curve Coefficients

Intercept:	0
Slope:	0.3424

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.364536	50.0	1349937.0	0.364536	Y
2	IC 410-531506/13	4.0	1.405901	50.0	1289742.0	0.351475	Y
3	IC 410-531506/14	10.0	3.405565	50.0	1319825.0	0.340557	Y
4	IC 410-531506/15	20.0	7.123155	50.0	1310606.0	0.356158	Y
5	ICIS 410-531506/16	50.0	16.169366	50.0	1347341.0	0.323387	Y
6	IC 410-531506/17	100.0	33.203085	50.0	1351138.0	0.332031	Y
7	IC 410-531506/18	300.0	98.537081	50.0	1365045.0	0.328457	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

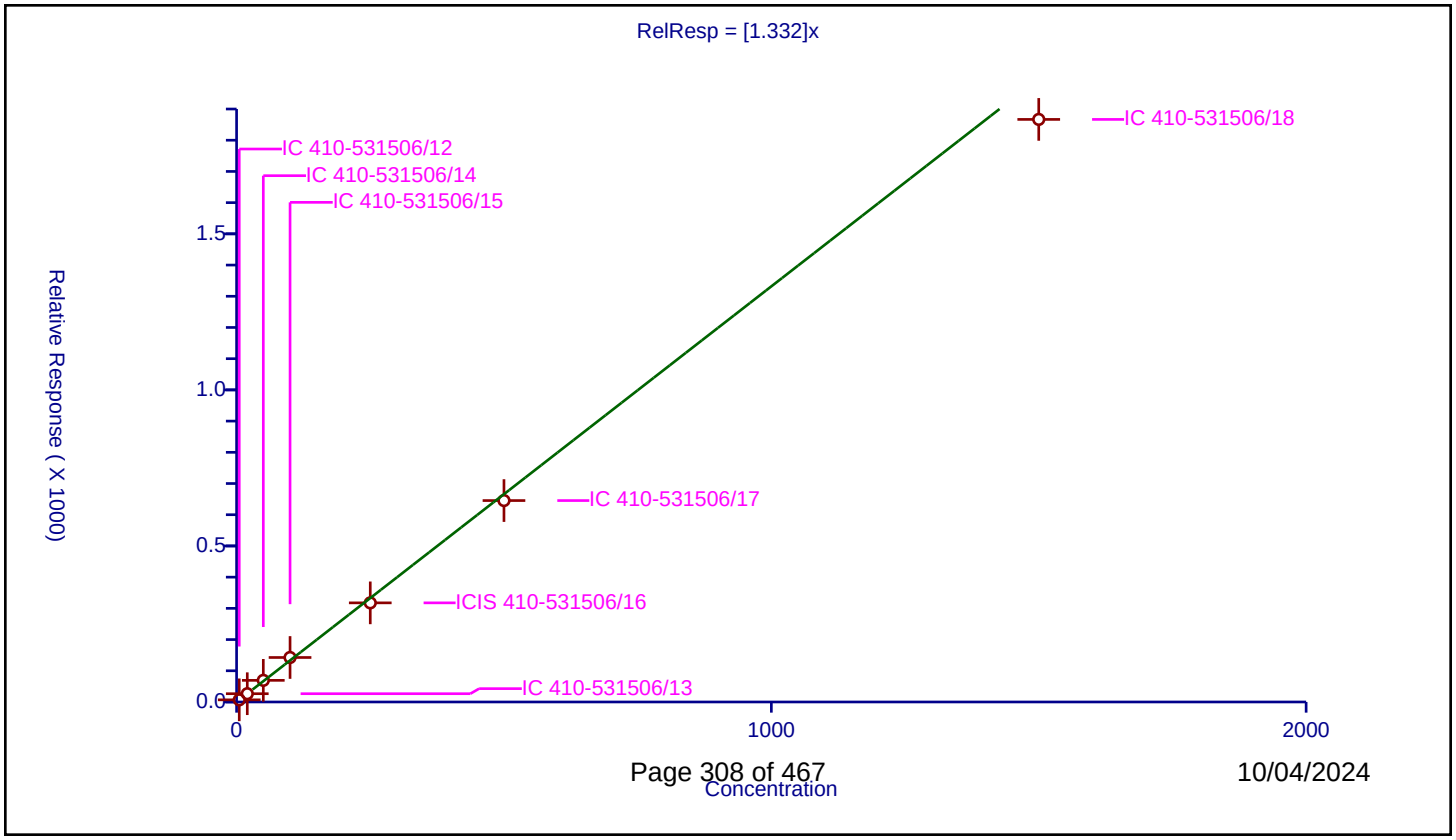
Curve Coefficients

Intercept:	0
Slope:	1.332

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	5.0	6.880293	250.0	468512.0	1.376059	Y
2	IC 410-531506/13	20.0	26.558685	250.0	466034.0	1.327934	Y
3	IC 410-531506/14	50.0	69.327378	250.0	493903.0	1.386548	Y
4	IC 410-531506/15	100.0	142.602121	250.0	469567.0	1.426021	Y
5	ICIS 410-531506/16	250.0	317.602208	250.0	479829.0	1.270409	Y
6	IC 410-531506/17	500.0	645.386245	250.0	532007.0	1.290772	Y
7	IC 410-531506/18	1500.0	1866.640862	250.0	439190.0	1.244427	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

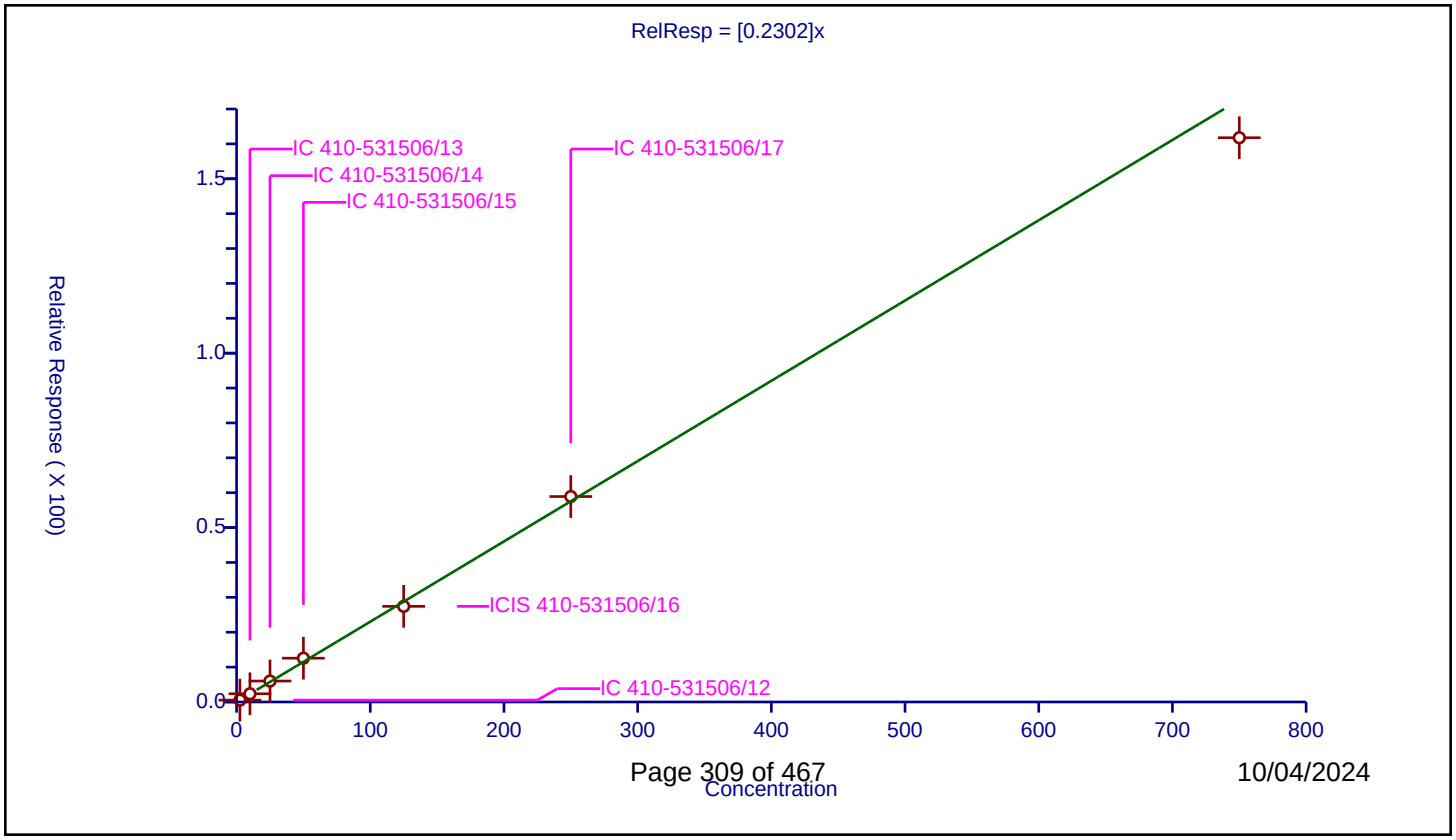
Curve Coefficients

Intercept:	0
Slope:	0.2302

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	2.5	0.532358	50.0	1349937.0	0.212943	Y
2	IC 410-531506/13	10.0	2.36086	50.0	1289742.0	0.236086	Y
3	IC 410-531506/14	25.0	6.007804	50.0	1319825.0	0.240312	Y
4	IC 410-531506/15	50.0	12.560258	50.0	1310606.0	0.251205	Y
5	ICIS 410-531506/16	125.0	27.419339	50.0	1347341.0	0.219355	Y
6	IC 410-531506/17	250.0	58.899757	50.0	1351138.0	0.235599	Y
7	IC 410-531506/18	750.0	161.76507	50.0	1365045.0	0.215687	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

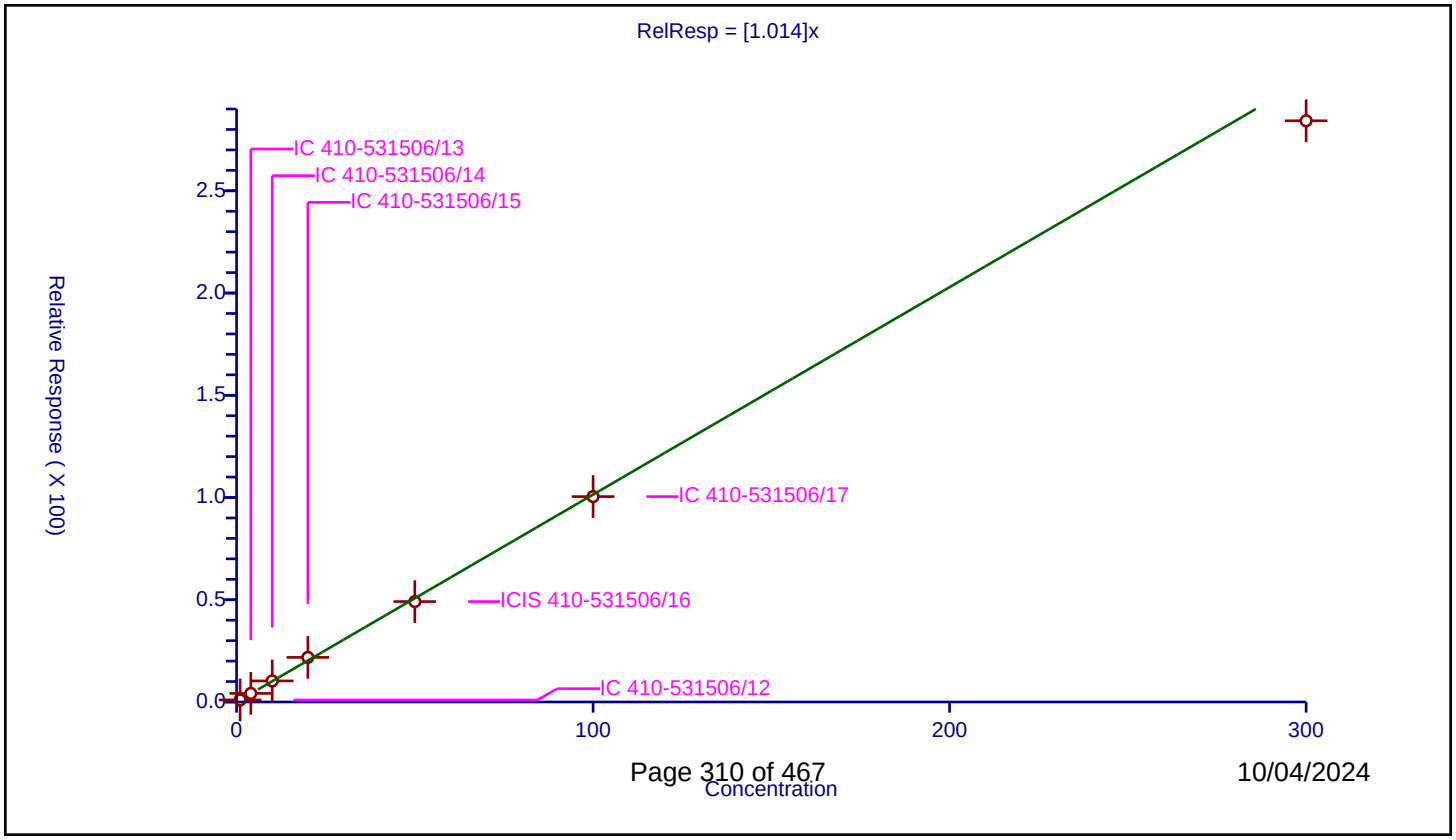
Curve Coefficients

Intercept:	0
Slope:	1.014

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.998417	50.0	1349937.0	0.998417	Y
2	IC 410-531506/13	4.0	4.193901	50.0	1289742.0	1.048475	Y
3	IC 410-531506/14	10.0	10.295077	50.0	1319825.0	1.029508	Y
4	IC 410-531506/15	20.0	21.806744	50.0	1310606.0	1.090337	Y
5	ICIS 410-531506/16	50.0	49.106759	50.0	1347341.0	0.982135	Y
6	IC 410-531506/17	100.0	100.443108	50.0	1351138.0	1.004431	Y
7	IC 410-531506/18	300.0	284.249017	50.0	1365045.0	0.947497	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

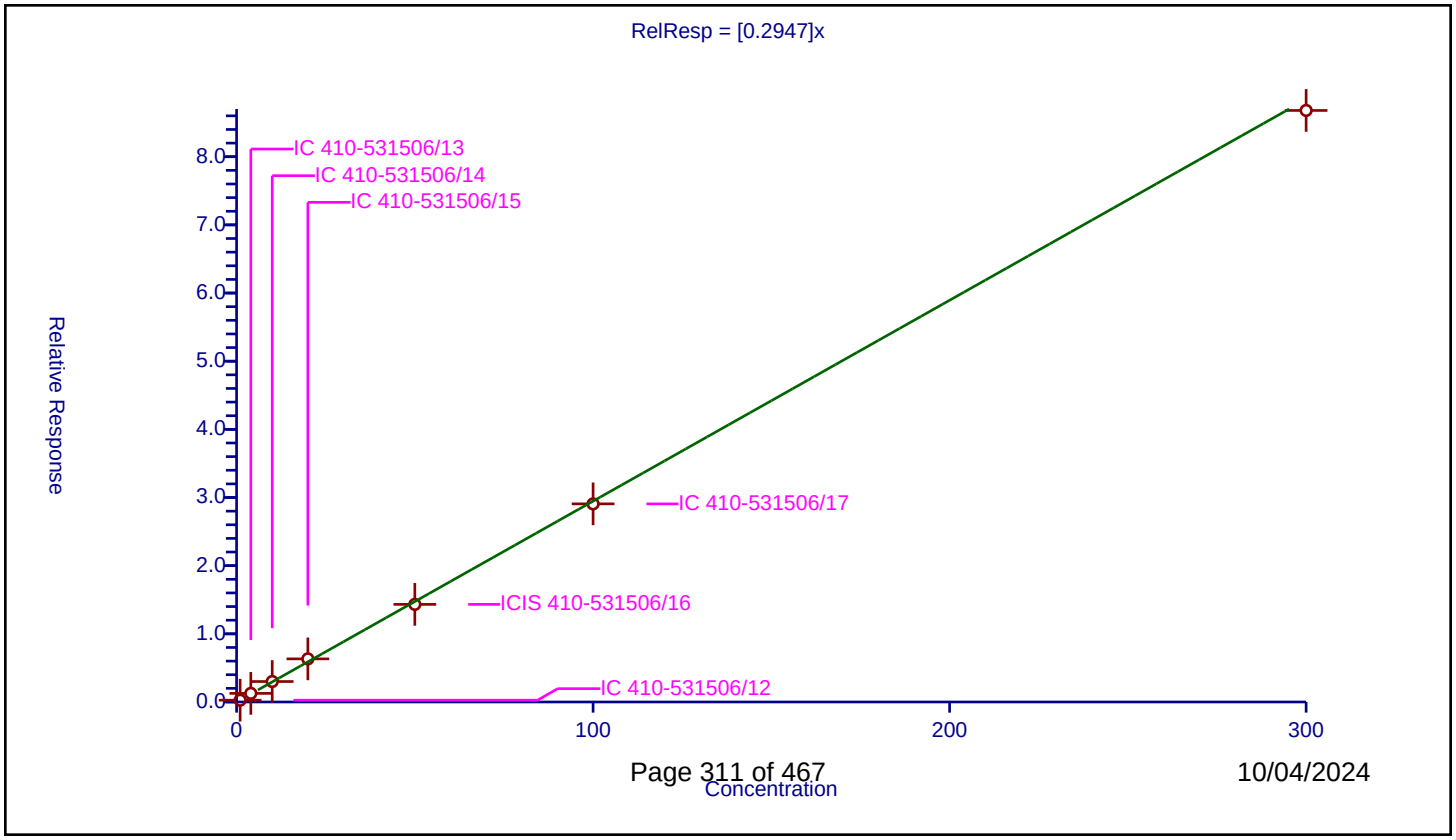
Curve Coefficients

Intercept:	0
Slope:	0.2947

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.264086	50.0	1349937.0	0.264086	Y
2	IC 410-531506/13	4.0	1.262966	50.0	1289742.0	0.315741	Y
3	IC 410-531506/14	10.0	3.003883	50.0	1319825.0	0.300388	Y
4	IC 410-531506/15	20.0	6.322991	50.0	1310606.0	0.31615	Y
5	ICIS 410-531506/16	50.0	14.323063	50.0	1347341.0	0.286461	Y
6	IC 410-531506/17	100.0	29.067423	50.0	1351138.0	0.290674	Y
7	IC 410-531506/18	300.0	86.78941	50.0	1365045.0	0.289298	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

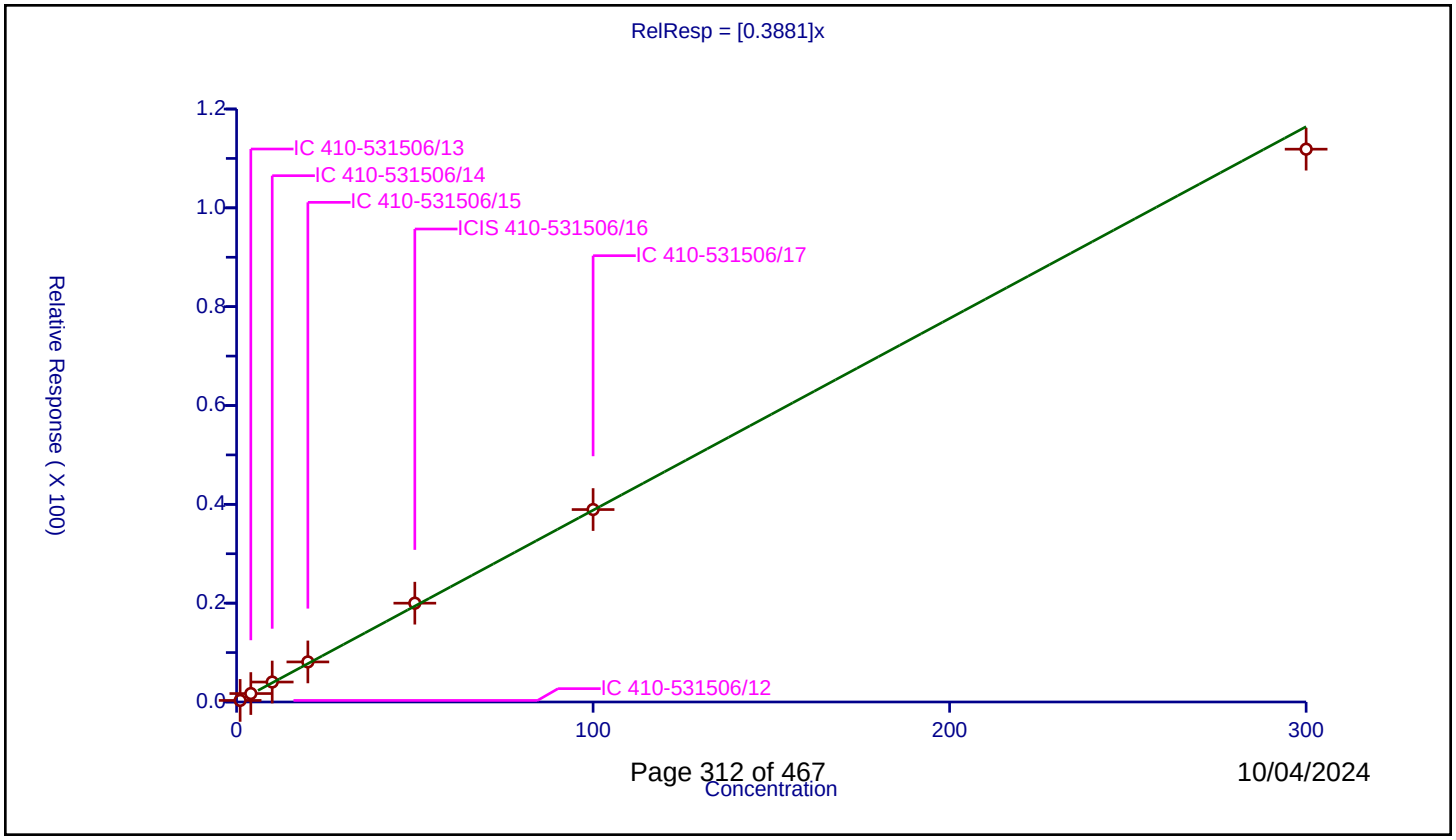
Curve Coefficients

Intercept:	0
Slope:	0.3881

Error Coefficients

Relative Standard Deviation:	9.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.318274	50.0	1349937.0	0.318274	Y
2	IC 410-531506/13	4.0	1.706155	50.0	1289742.0	0.426539	Y
3	IC 410-531506/14	10.0	4.041521	50.0	1319825.0	0.404152	Y
4	IC 410-531506/15	20.0	8.108654	50.0	1310606.0	0.405433	Y
5	ICIS 410-531506/16	50.0	19.997276	50.0	1347341.0	0.399946	Y
6	IC 410-531506/17	100.0	38.945393	50.0	1351138.0	0.389454	Y
7	IC 410-531506/18	300.0	111.872209	50.0	1365045.0	0.372907	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

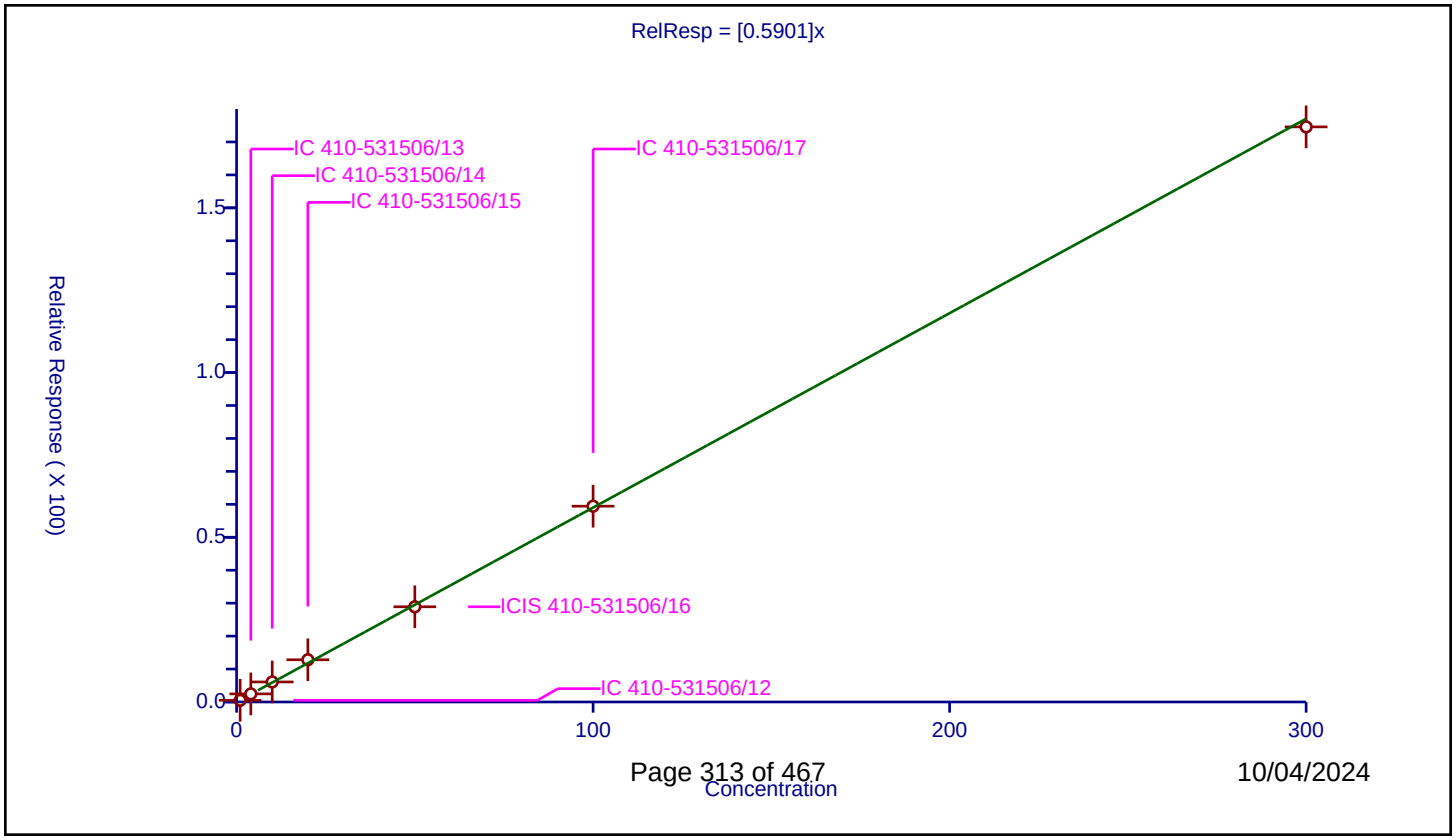
Curve Coefficients

Intercept:	0
Slope:	0.5901

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.512765	50.0	1349937.0	0.512765	Y
2	IC 410-531506/13	4.0	2.457546	50.0	1289742.0	0.614386	Y
3	IC 410-531506/14	10.0	6.085276	50.0	1319825.0	0.608528	Y
4	IC 410-531506/15	20.0	12.819909	50.0	1310606.0	0.640995	Y
5	ICIS 410-531506/16	50.0	28.899254	50.0	1347341.0	0.577985	Y
6	IC 410-531506/17	100.0	59.438895	50.0	1351138.0	0.594389	Y
7	IC 410-531506/18	300.0	174.578457	50.0	1365045.0	0.581928	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

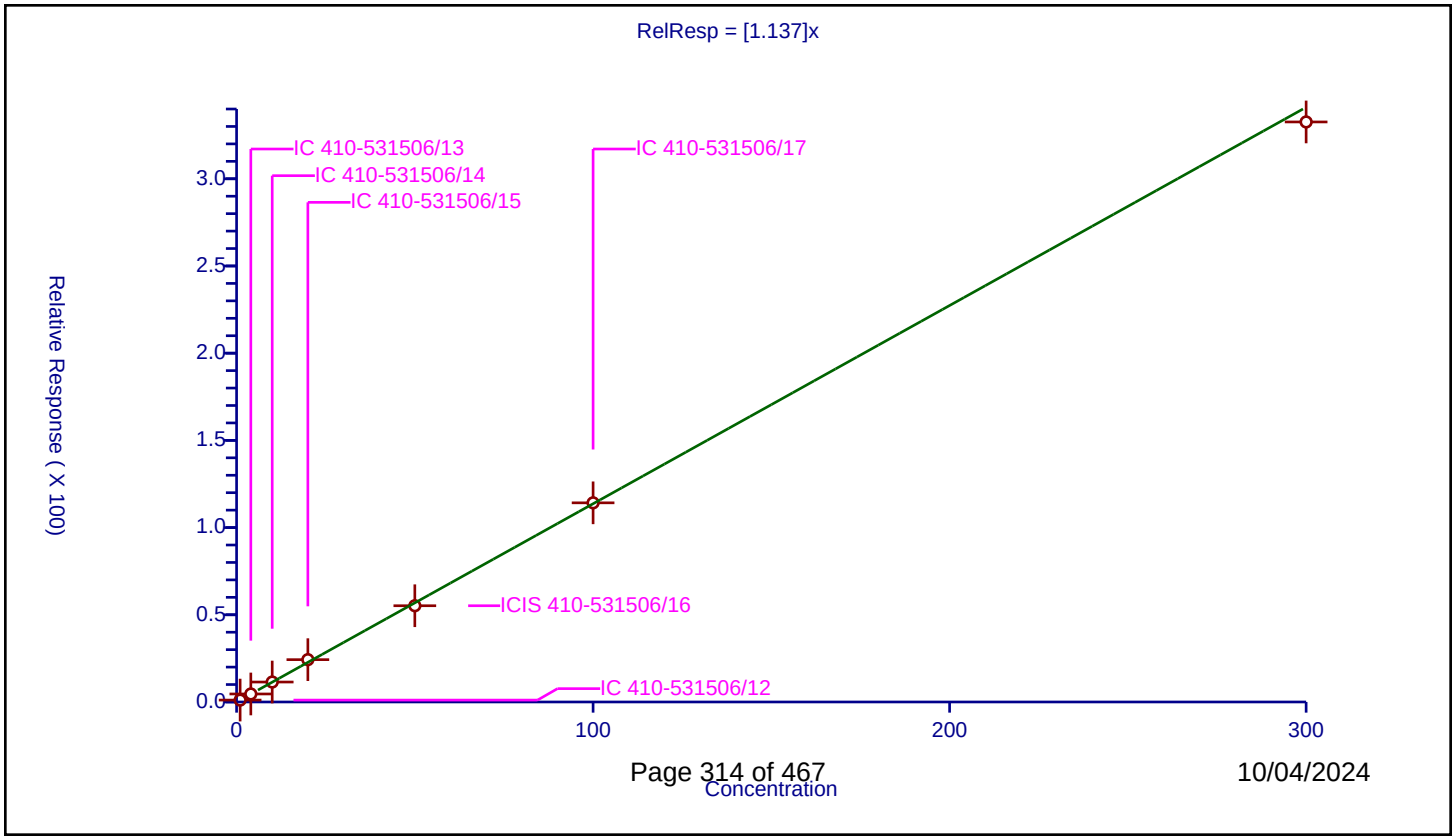
Curve Coefficients

Intercept:	0
Slope:	1.137

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	1.094384	50.0	1349937.0	1.094384	Y
2	IC 410-531506/13	4.0	4.600533	50.0	1289742.0	1.150133	Y
3	IC 410-531506/14	10.0	11.439661	50.0	1319825.0	1.143966	Y
4	IC 410-531506/15	20.0	24.273809	50.0	1310606.0	1.21369	Y
5	ICIS 410-531506/16	50.0	55.19501	50.0	1347341.0	1.1039	Y
6	IC 410-531506/17	100.0	114.194627	50.0	1351138.0	1.141946	Y
7	IC 410-531506/18	300.0	332.588523	50.0	1365045.0	1.108628	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

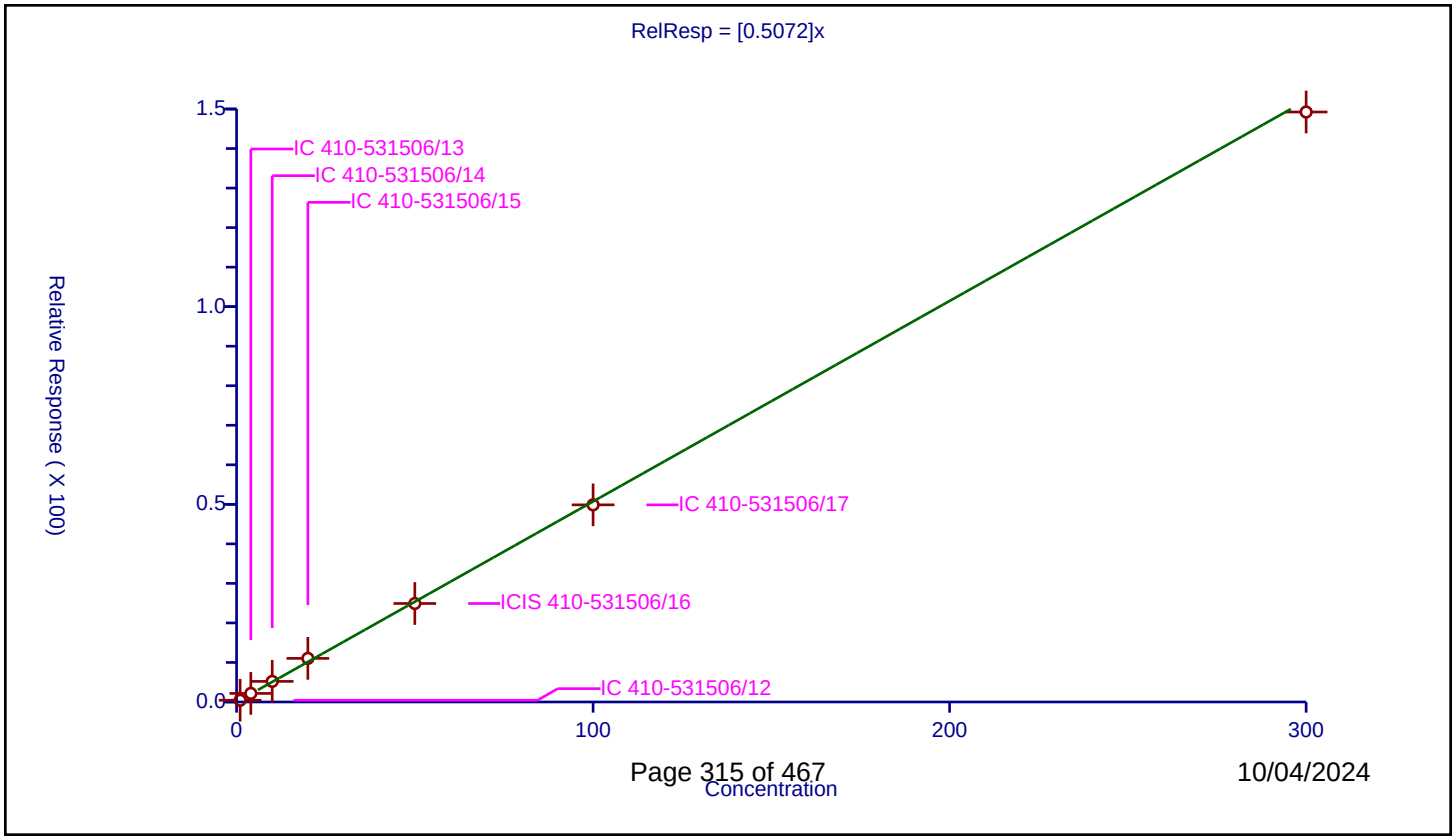
Curve Coefficients

Intercept:	0
Slope:	0.5072

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.440947	50.0	1349937.0	0.440947	Y
2	IC 410-531506/13	4.0	2.170744	50.0	1289742.0	0.542686	Y
3	IC 410-531506/14	10.0	5.208872	50.0	1319825.0	0.520887	Y
4	IC 410-531506/15	20.0	11.033674	50.0	1310606.0	0.551684	Y
5	ICIS 410-531506/16	50.0	24.914331	50.0	1347341.0	0.498287	Y
6	IC 410-531506/17	100.0	49.865632	50.0	1351138.0	0.498656	Y
7	IC 410-531506/18	300.0	149.244567	50.0	1365045.0	0.497482	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

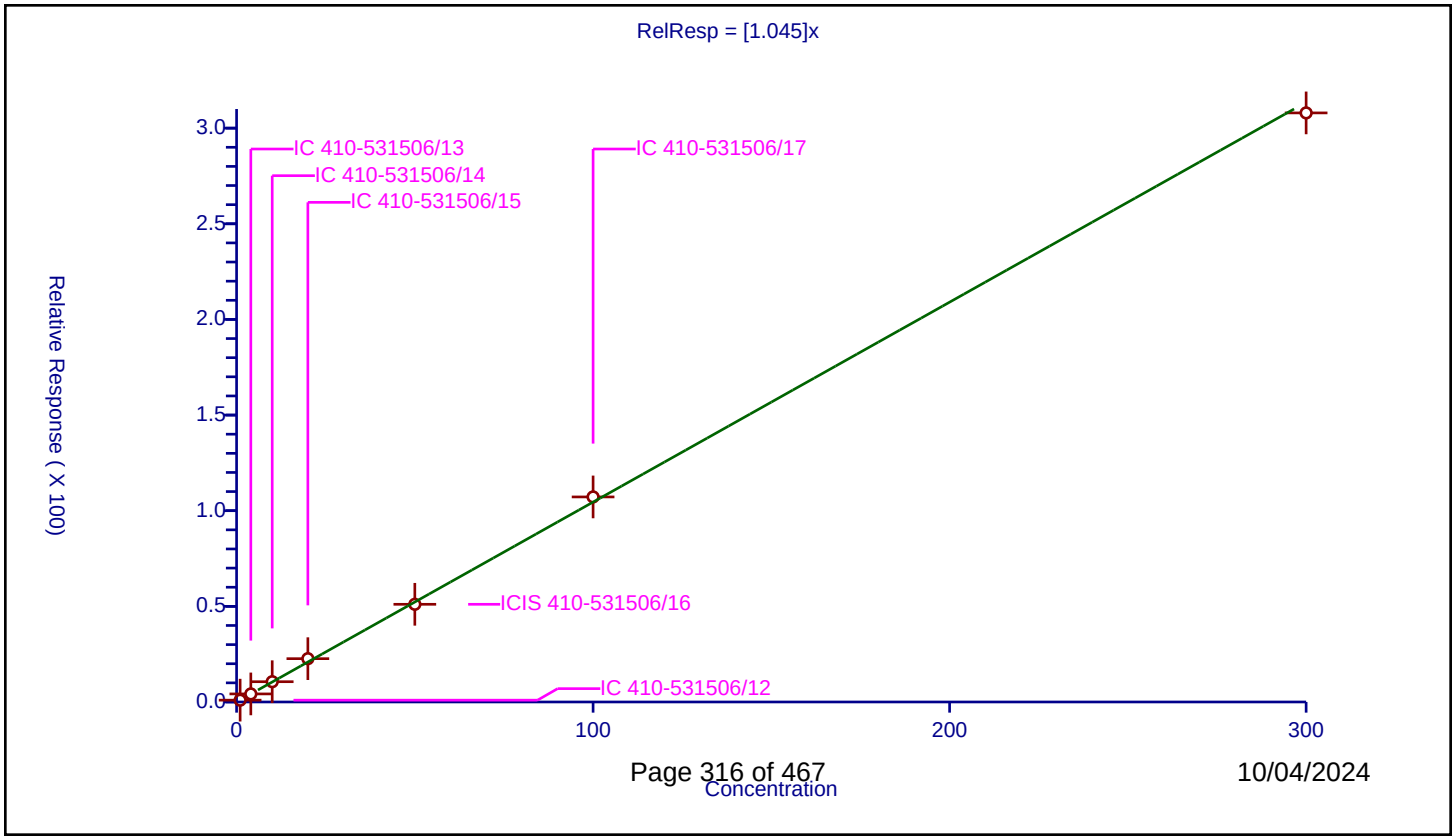
Curve Coefficients

Intercept:	0
Slope:	1.045

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.950711	50.0	1349937.0	0.950711	Y
2	IC 410-531506/13	4.0	4.212432	50.0	1289742.0	1.053108	Y
3	IC 410-531506/14	10.0	10.600799	50.0	1319825.0	1.06008	Y
4	IC 410-531506/15	20.0	22.641244	50.0	1310606.0	1.132062	Y
5	ICIS 410-531506/16	50.0	51.066805	50.0	1347341.0	1.021336	Y
6	IC 410-531506/17	100.0	107.205371	50.0	1351138.0	1.072054	Y
7	IC 410-531506/18	300.0	307.969517	50.0	1365045.0	1.026565	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

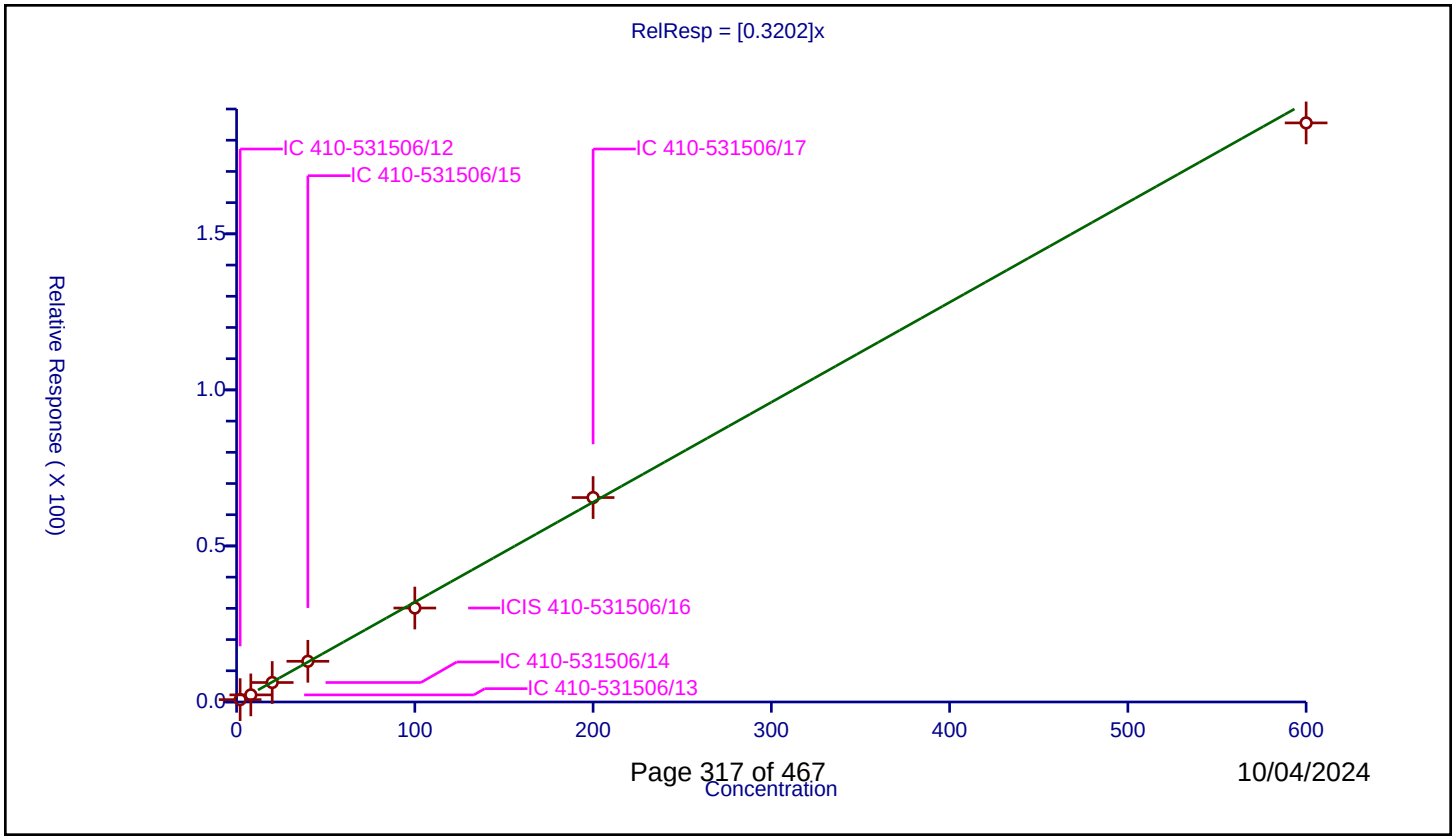
Curve Coefficients

Intercept:	0
Slope:	0.3202

Error Coefficients

Relative Standard Deviation:	9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	2.0	0.75948	50.0	1349937.0	0.37974	Y
2	IC 410-531506/13	8.0	2.281076	50.0	1289742.0	0.285135	Y
3	IC 410-531506/14	20.0	6.245222	50.0	1319825.0	0.312261	Y
4	IC 410-531506/15	40.0	13.043813	50.0	1310606.0	0.326095	Y
5	ICIS 410-531506/16	100.0	30.103886	50.0	1347341.0	0.301039	Y
6	IC 410-531506/17	200.0	65.507927	50.0	1351138.0	0.32754	Y
7	IC 410-531506/18	600.0	185.545238	50.0	1365045.0	0.309242	Y



10/04/2024

Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

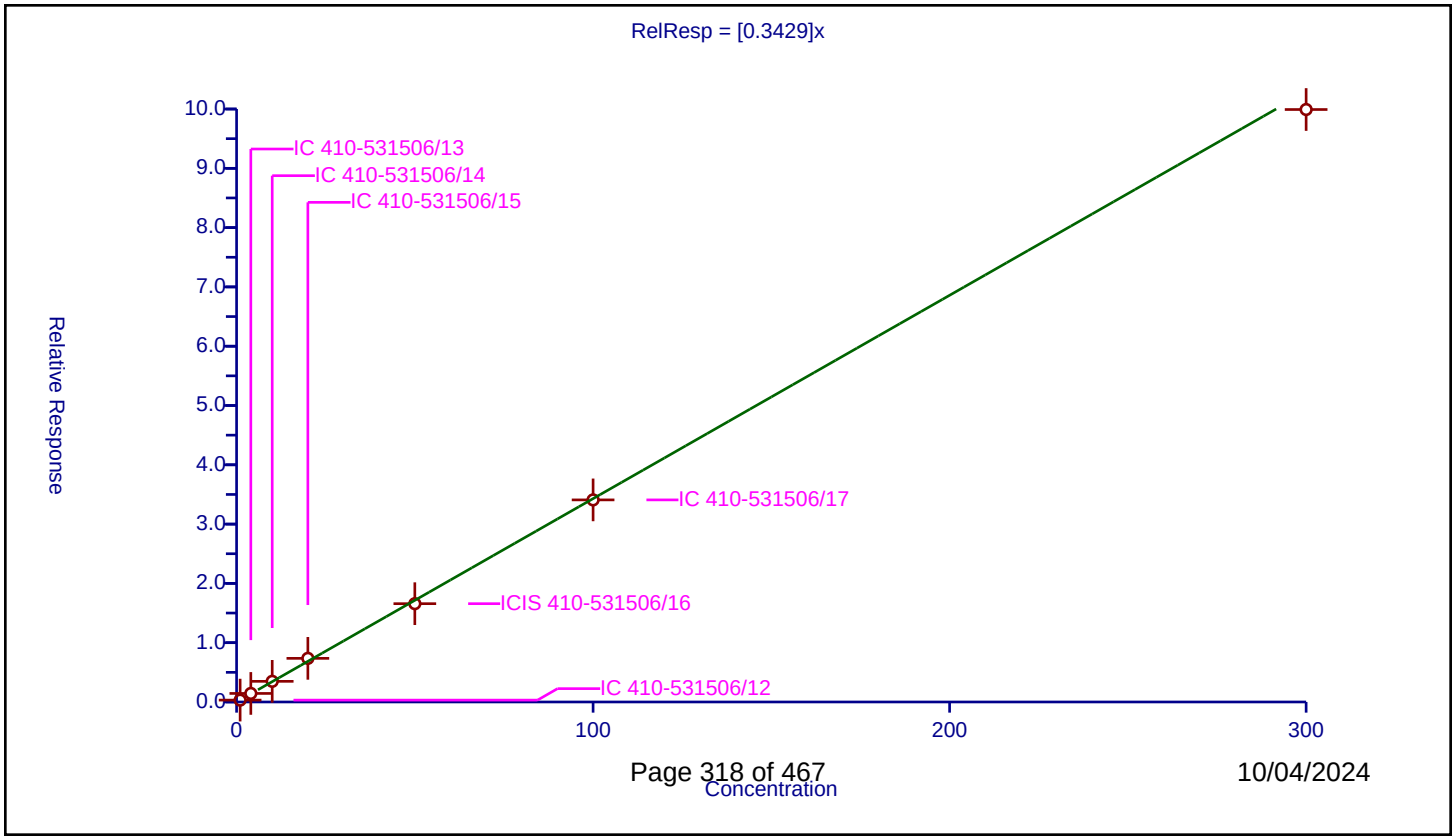
Curve Coefficients

Intercept:	0
Slope:	0.3429

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.318422	50.0	1349937.0	0.318422	Y
2	IC 410-531506/13	4.0	1.442459	50.0	1289742.0	0.360615	Y
3	IC 410-531506/14	10.0	3.481333	50.0	1319825.0	0.348133	Y
4	IC 410-531506/15	20.0	7.358085	50.0	1310606.0	0.367904	Y
5	ICIS 410-531506/16	50.0	16.580621	50.0	1347341.0	0.331612	Y
6	IC 410-531506/17	100.0	34.081678	50.0	1351138.0	0.340817	Y
7	IC 410-531506/18	300.0	99.91579	50.0	1365045.0	0.333053	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

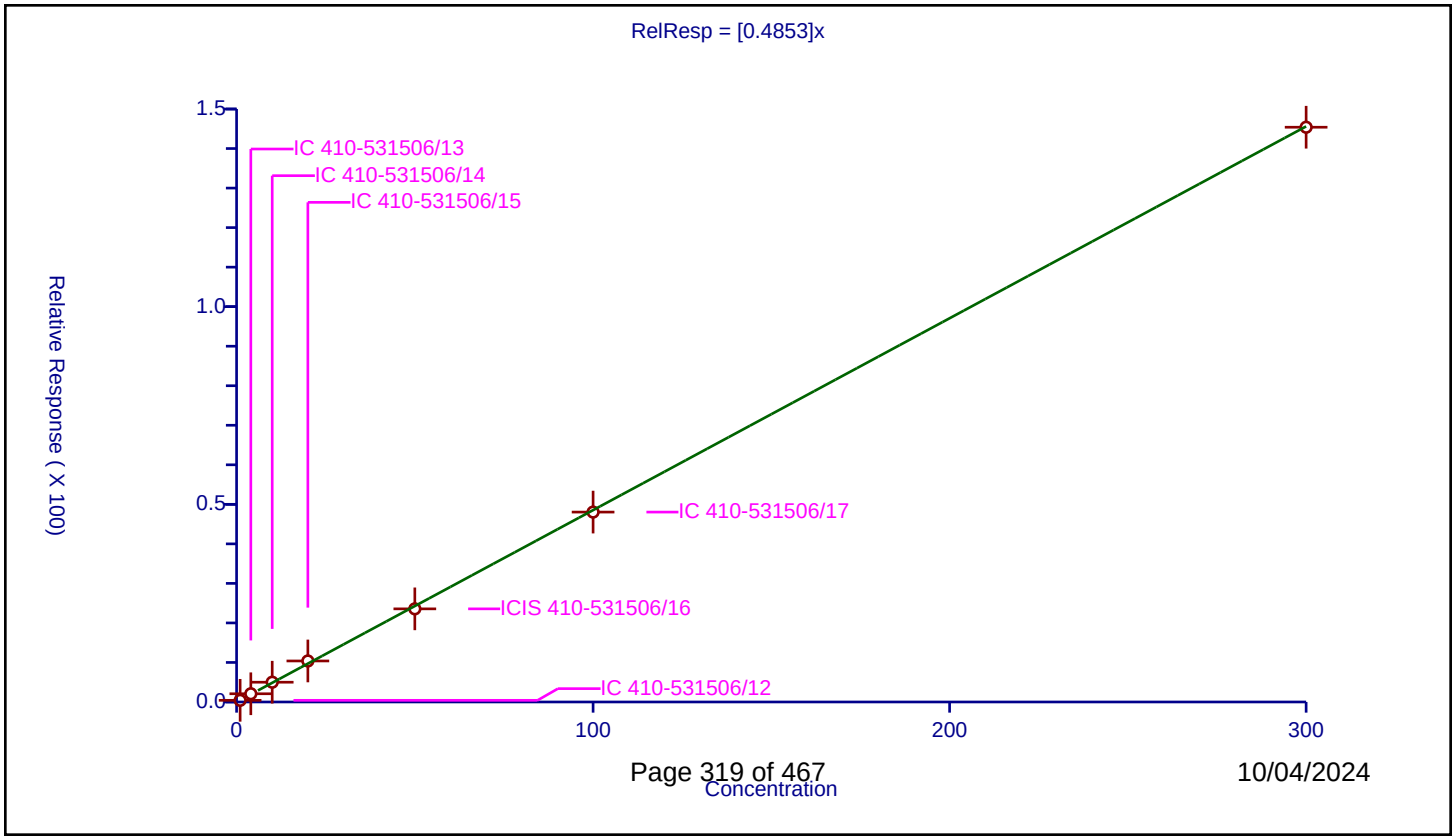
Curve Coefficients

Intercept:	0
Slope:	0.4853

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.42076	50.0	1349937.0	0.42076	Y
2	IC 410-531506/13	4.0	2.083866	50.0	1289742.0	0.520967	Y
3	IC 410-531506/14	10.0	5.003807	50.0	1319825.0	0.500381	Y
4	IC 410-531506/15	20.0	10.380847	50.0	1310606.0	0.519042	Y
5	ICIS 410-531506/16	50.0	23.560034	50.0	1347341.0	0.471201	Y
6	IC 410-531506/17	100.0	48.036396	50.0	1351138.0	0.480364	Y
7	IC 410-531506/18	300.0	145.389712	50.0	1365045.0	0.484632	Y



Calibration / Propionitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

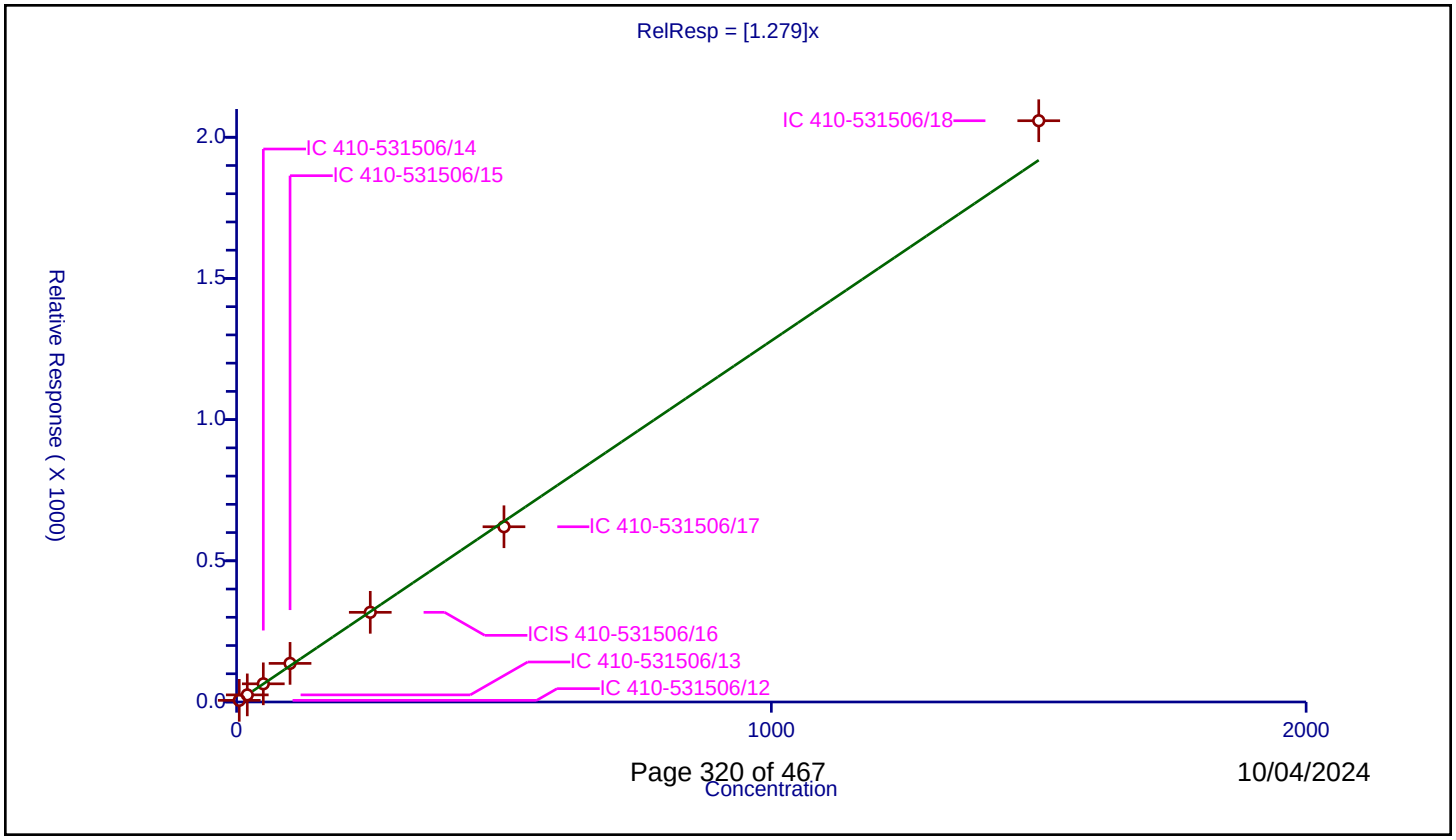
Curve Coefficients

Intercept:	0
Slope:	1.279

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	5.0	5.7768	250.0	468512.0	1.15536	Y
2	IC 410-531506/13	20.0	25.208461	250.0	466034.0	1.260423	Y
3	IC 410-531506/14	50.0	64.392198	250.0	493903.0	1.287844	Y
4	IC 410-531506/15	100.0	136.71212	250.0	469567.0	1.367121	Y
5	ICIS 410-531506/16	250.0	317.556359	250.0	479829.0	1.270225	Y
6	IC 410-531506/17	500.0	620.612135	250.0	532007.0	1.241224	Y
7	IC 410-531506/18	1500.0	2058.568046	250.0	439190.0	1.372379	Y



Calibration / Methyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

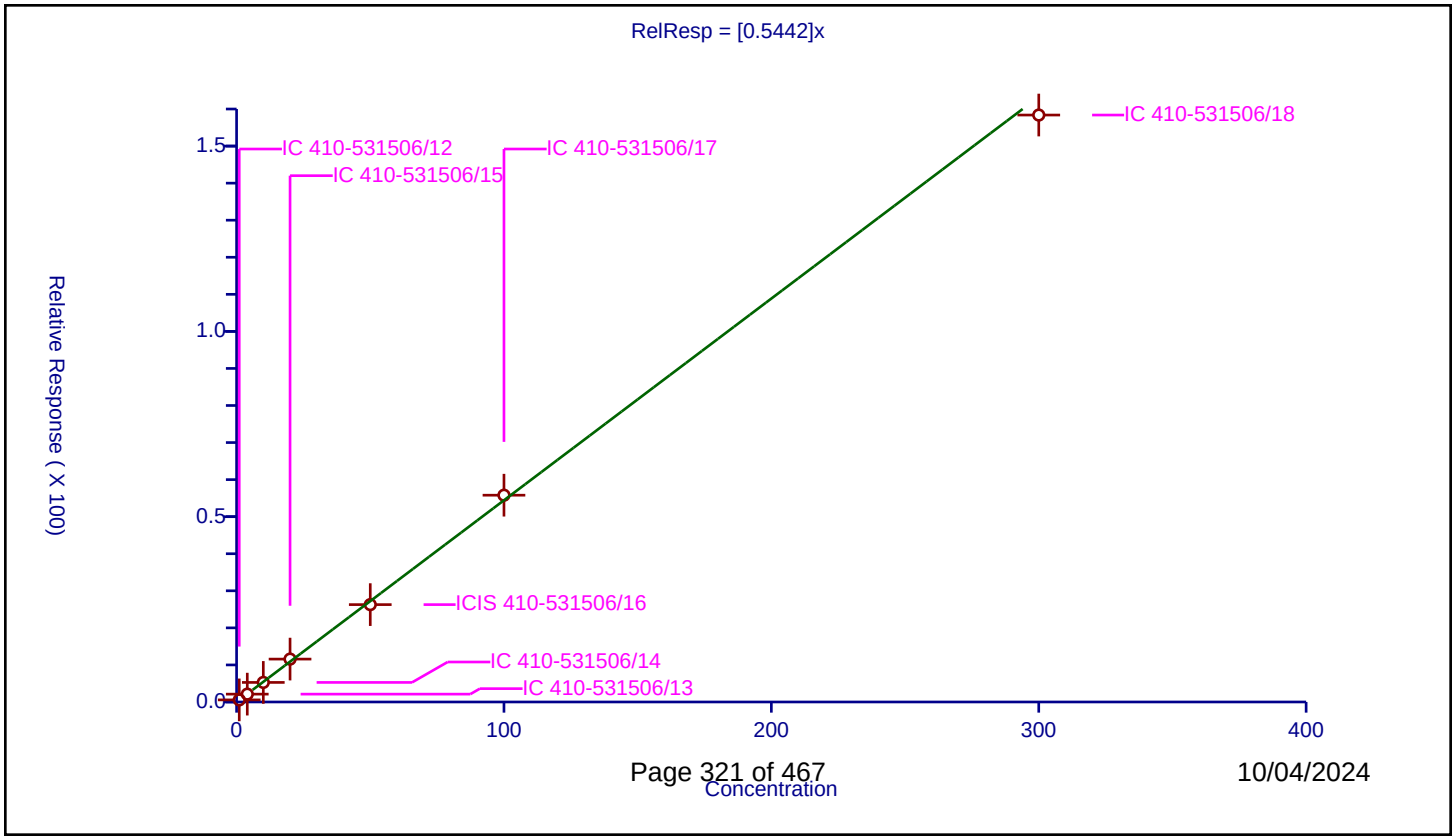
Curve Coefficients

Intercept:	0
Slope:	0.5442

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.000048	0.562026	50.0	1349937.0	0.561999	Y
2	IC 410-531506/13	4.000191	2.119843	50.0	1289742.0	0.529935	Y
3	IC 410-531506/14	10.000478	5.279223	50.0	1319825.0	0.527897	Y
4	IC 410-531506/15	20.000956	11.574684	50.0	1310606.0	0.578707	Y
5	ICIS 410-531506/16	50.00239	26.271523	50.0	1347341.0	0.525405	Y
6	IC 410-531506/17	100.00478	55.79419	50.0	1351138.0	0.557915	Y
7	IC 410-531506/18	300.01434	158.370493	50.0	1365045.0	0.527876	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

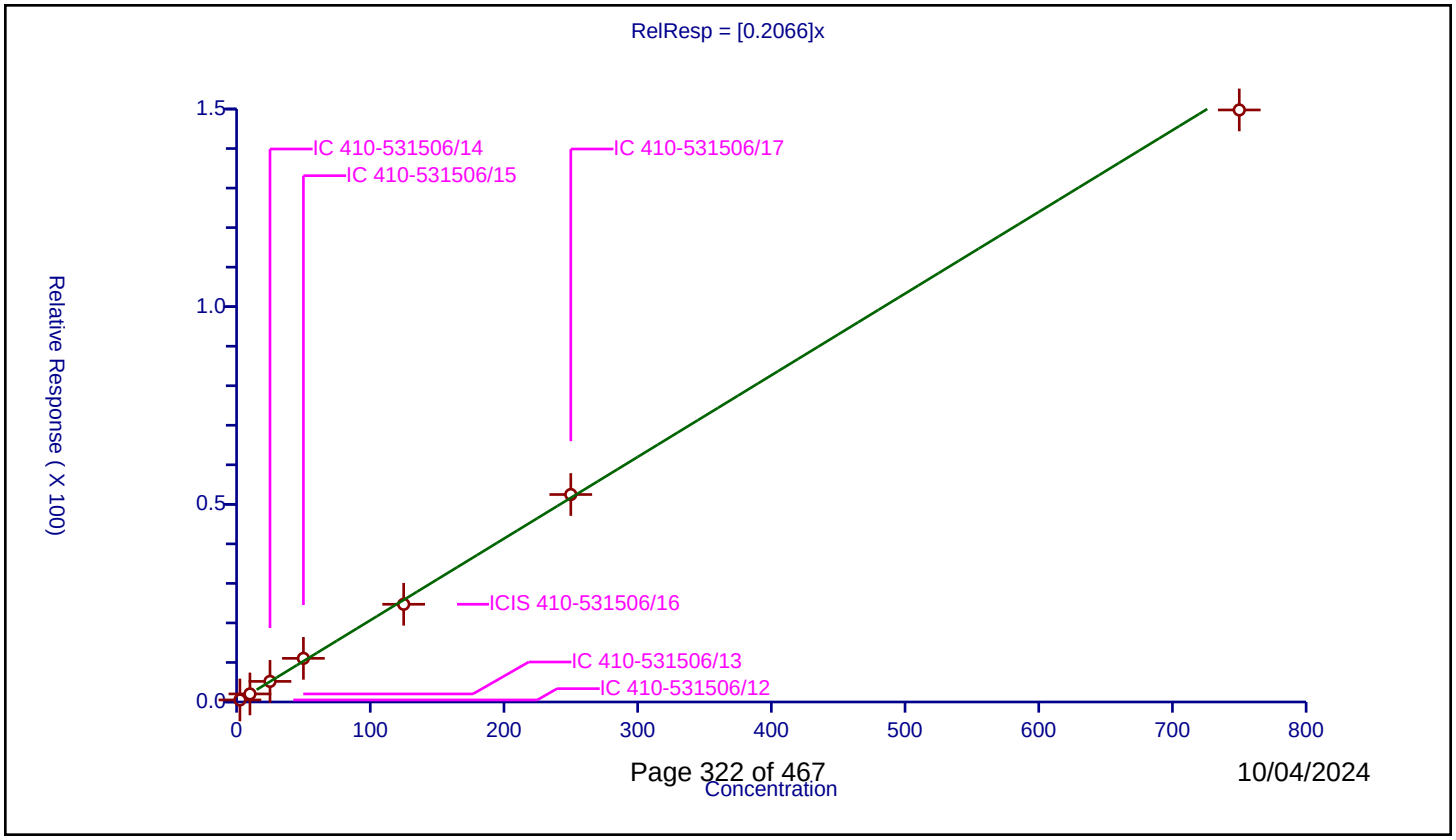
Curve Coefficients

Intercept:	0
Slope:	0.2066

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	2.5	0.514617	50.0	1349937.0	0.205847	Y
2	IC 410-531506/13	10.0	2.037501	50.0	1289742.0	0.20375	Y
3	IC 410-531506/14	25.0	5.212509	50.0	1319825.0	0.2085	Y
4	IC 410-531506/15	50.0	11.037909	50.0	1310606.0	0.220758	Y
5	ICIS 410-531506/16	125.0	24.717239	50.0	1347341.0	0.197738	Y
6	IC 410-531506/17	250.0	52.482907	50.0	1351138.0	0.209932	Y
7	IC 410-531506/18	750.0	149.763854	50.0	1365045.0	0.199685	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

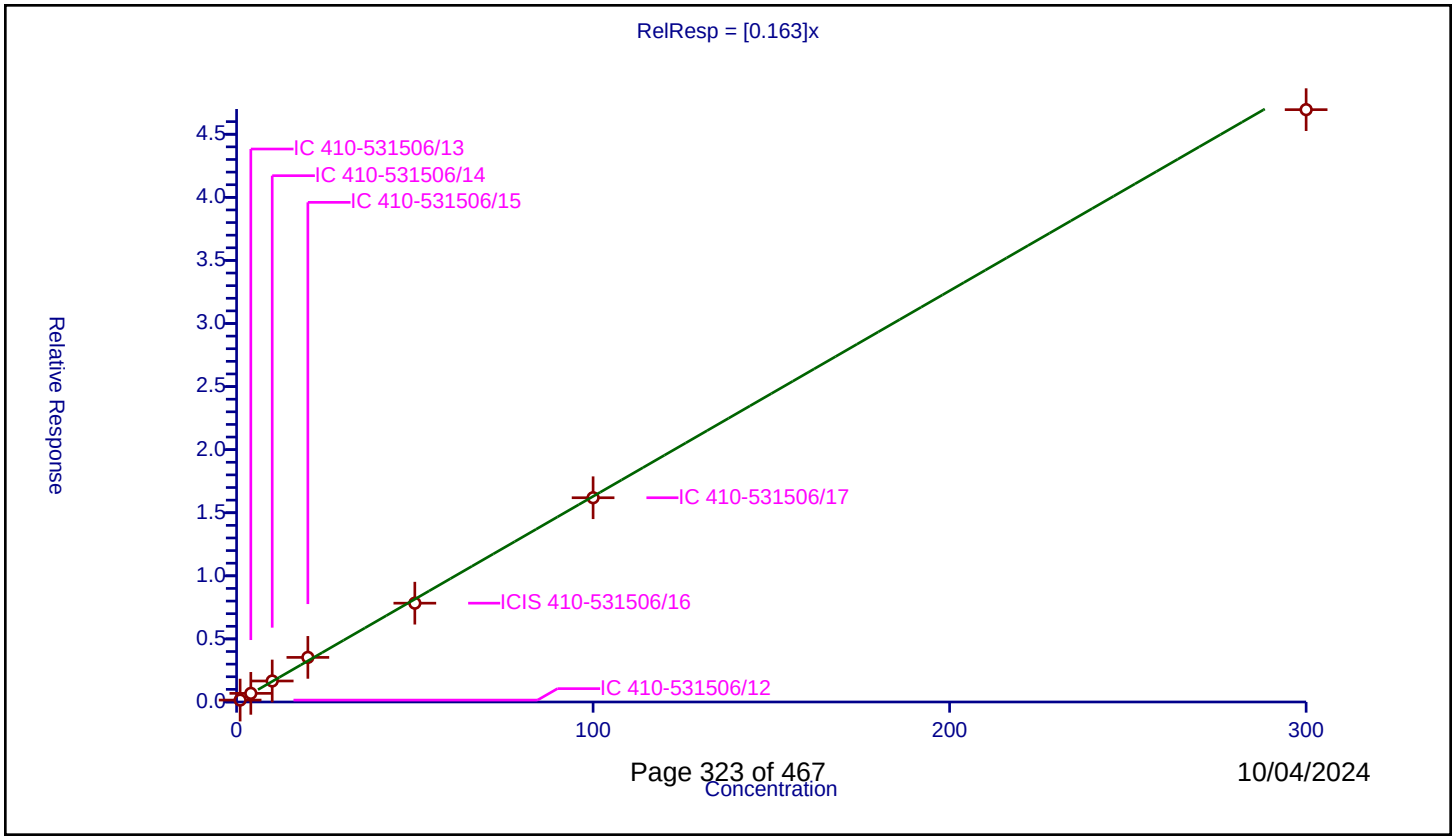
Curve Coefficients

Intercept:	0
Slope:	0.163

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.151526	50.0	1349937.0	0.151526	Y
2	IC 410-531506/13	4.0	0.683586	50.0	1289742.0	0.170897	Y
3	IC 410-531506/14	10.0	1.664918	50.0	1319825.0	0.166492	Y
4	IC 410-531506/15	20.0	3.535845	50.0	1310606.0	0.176792	Y
5	ICIS 410-531506/16	50.0	7.832279	50.0	1347341.0	0.156646	Y
6	IC 410-531506/17	100.0	16.189242	50.0	1351138.0	0.161892	Y
7	IC 410-531506/18	300.0	46.949368	50.0	1365045.0	0.156498	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

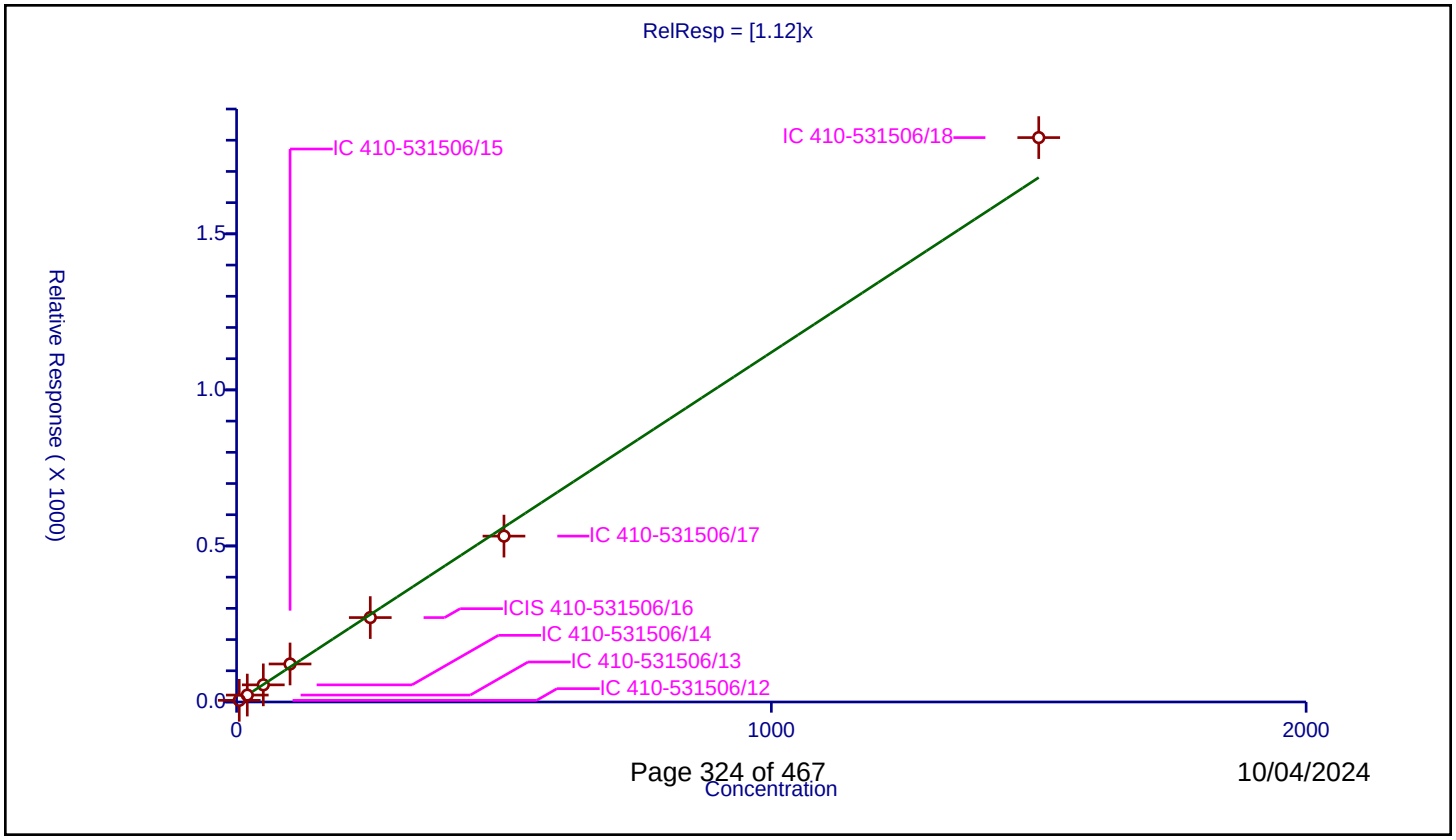
Curve Coefficients

Intercept:	0
Slope:	1.12

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	5.0	5.346715	250.0	468512.0	1.069343	Y
2	IC 410-531506/13	20.0	22.132505	250.0	466034.0	1.106625	Y
3	IC 410-531506/14	50.0	54.912098	250.0	493903.0	1.098242	Y
4	IC 410-531506/15	100.0	121.766968	250.0	469567.0	1.21767	Y
5	ICIS 410-531506/16	250.0	270.464582	250.0	479829.0	1.081858	Y
6	IC 410-531506/17	500.0	531.509924	250.0	532007.0	1.06302	Y
7	IC 410-531506/18	1500.0	1808.417769	250.0	439190.0	1.205612	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

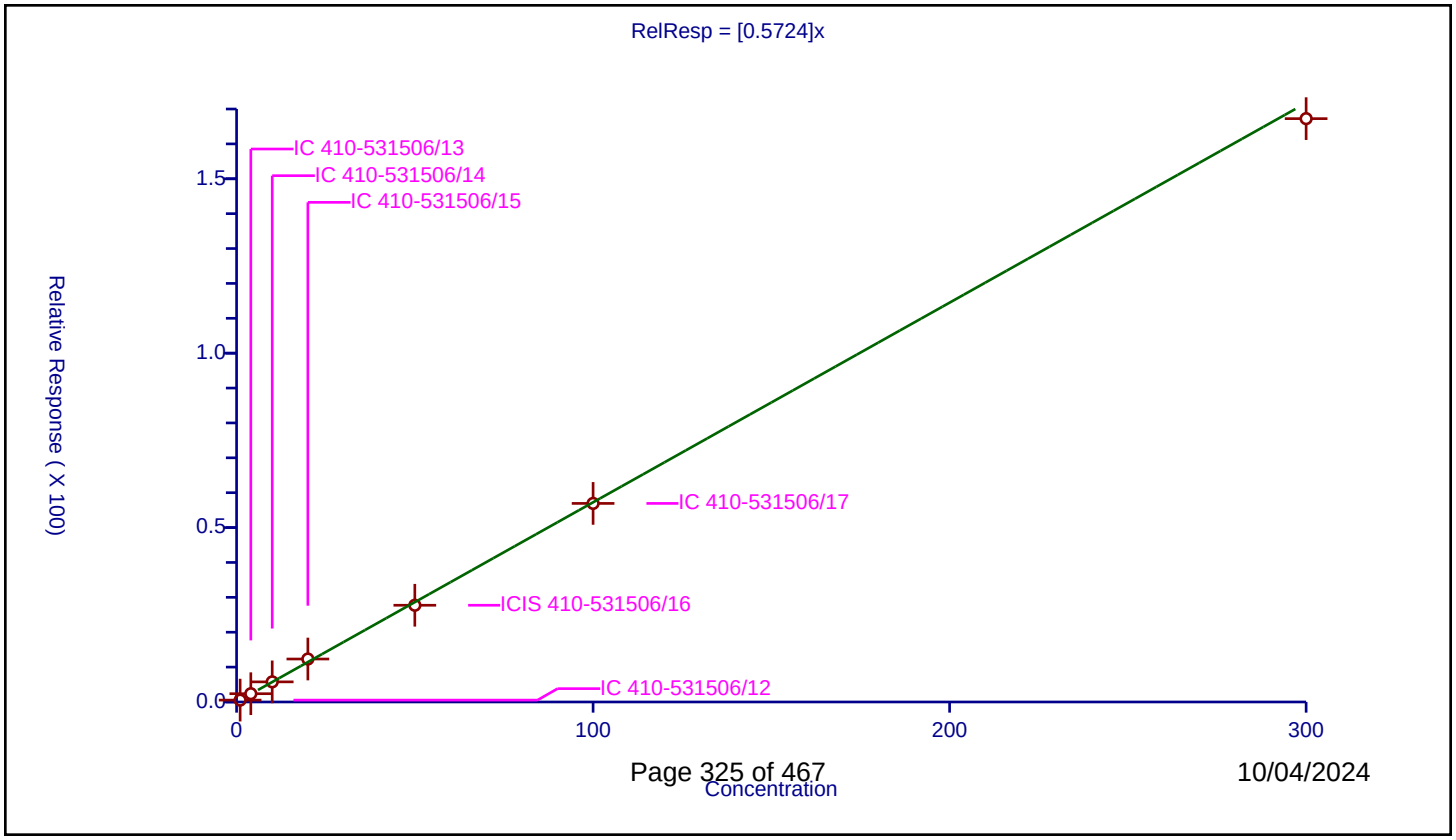
Curve Coefficients

Intercept:	0
Slope:	0.5724

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.538507	50.0	1349937.0	0.538507	Y
2	IC 410-531506/13	4.0	2.376095	50.0	1289742.0	0.594024	Y
3	IC 410-531506/14	10.0	5.769894	50.0	1319825.0	0.576989	Y
4	IC 410-531506/15	20.0	12.322201	50.0	1310606.0	0.61611	Y
5	ICIS 410-531506/16	50.0	27.733365	50.0	1347341.0	0.554667	Y
6	IC 410-531506/17	100.0	56.931934	50.0	1351138.0	0.569319	Y
7	IC 410-531506/18	300.0	167.239432	50.0	1365045.0	0.557465	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

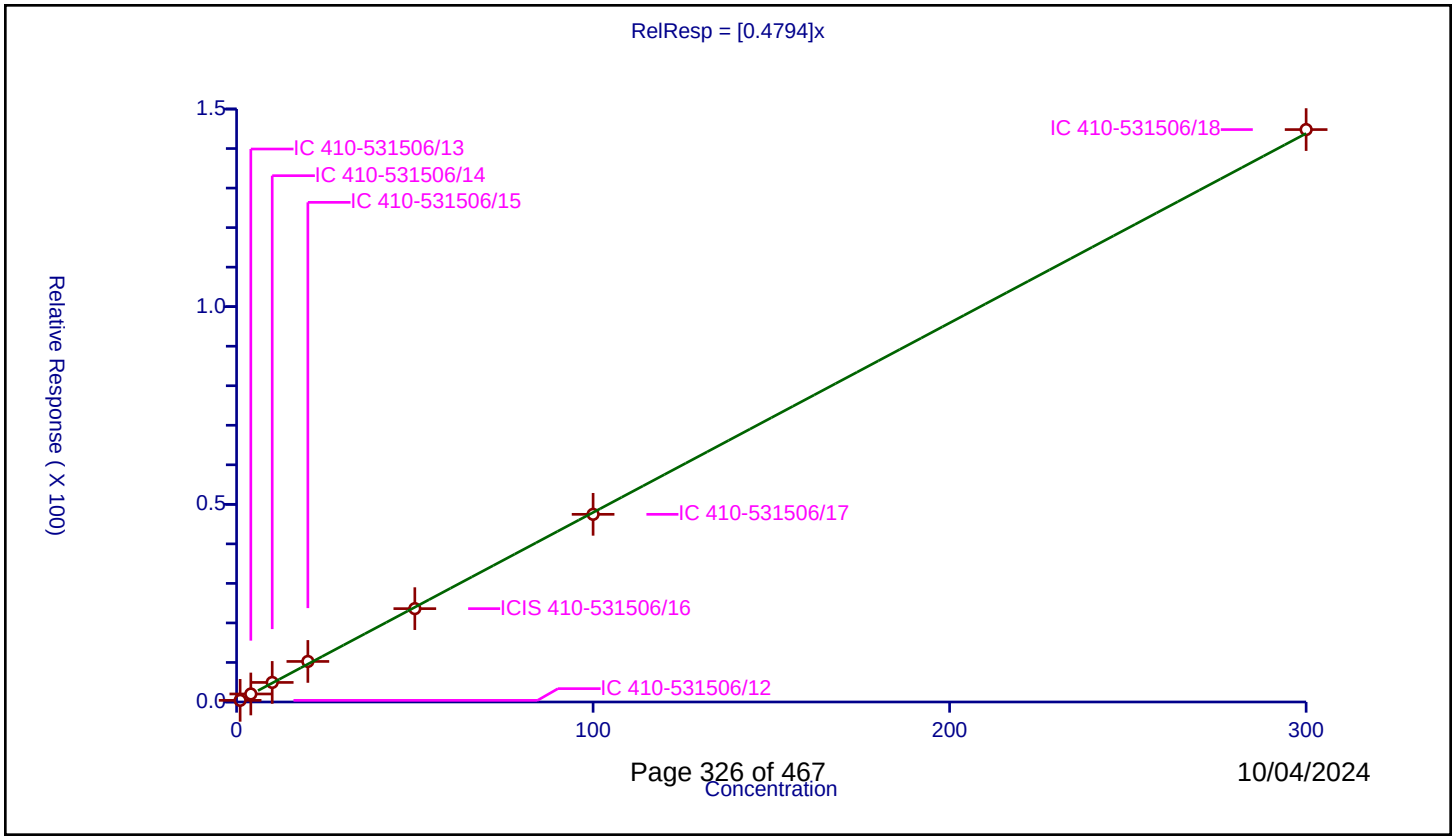
Curve Coefficients

Intercept:	0
Slope:	0.4794

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.412427	50.0	1349937.0	0.412427	Y
2	IC 410-531506/13	4.0	2.024785	50.0	1289742.0	0.506196	Y
3	IC 410-531506/14	10.0	4.945542	50.0	1319825.0	0.494554	Y
4	IC 410-531506/15	20.0	10.259147	50.0	1310606.0	0.512957	Y
5	ICIS 410-531506/16	50.0	23.612879	50.0	1347341.0	0.472258	Y
6	IC 410-531506/17	100.0	47.469837	50.0	1351138.0	0.474698	Y
7	IC 410-531506/18	300.0	144.798413	50.0	1365045.0	0.482661	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

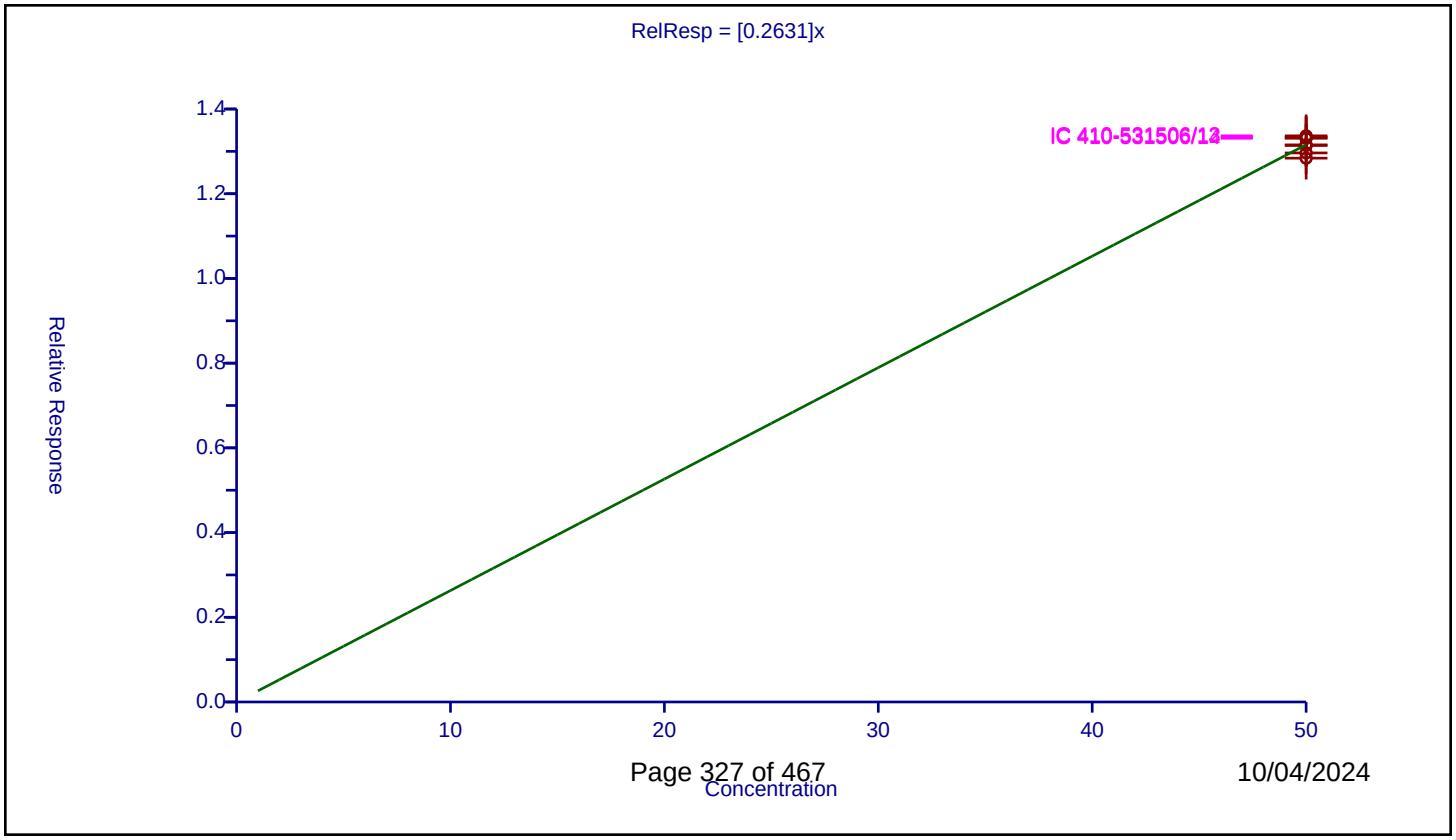
Curve Coefficients

Intercept:	0
Slope:	0.2631

Error Coefficients

Relative Standard Deviation:	1.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	50.0	13.3284	50.0	1349937.0	0.266568	Y
2	IC 410-531506/13	50.0	13.366588	50.0	1289742.0	0.267332	Y
3	IC 410-531506/14	50.0	13.309151	50.0	1319825.0	0.266183	Y
4	IC 410-531506/15	50.0	13.154068	50.0	1310606.0	0.263081	Y
5	ICIS 410-531506/16	50.0	13.13873	50.0	1347341.0	0.262775	Y
6	IC 410-531506/17	50.0	12.96311	50.0	1351138.0	0.259262	Y
7	IC 410-531506/18	50.0	12.839394	50.0	1365045.0	0.256788	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

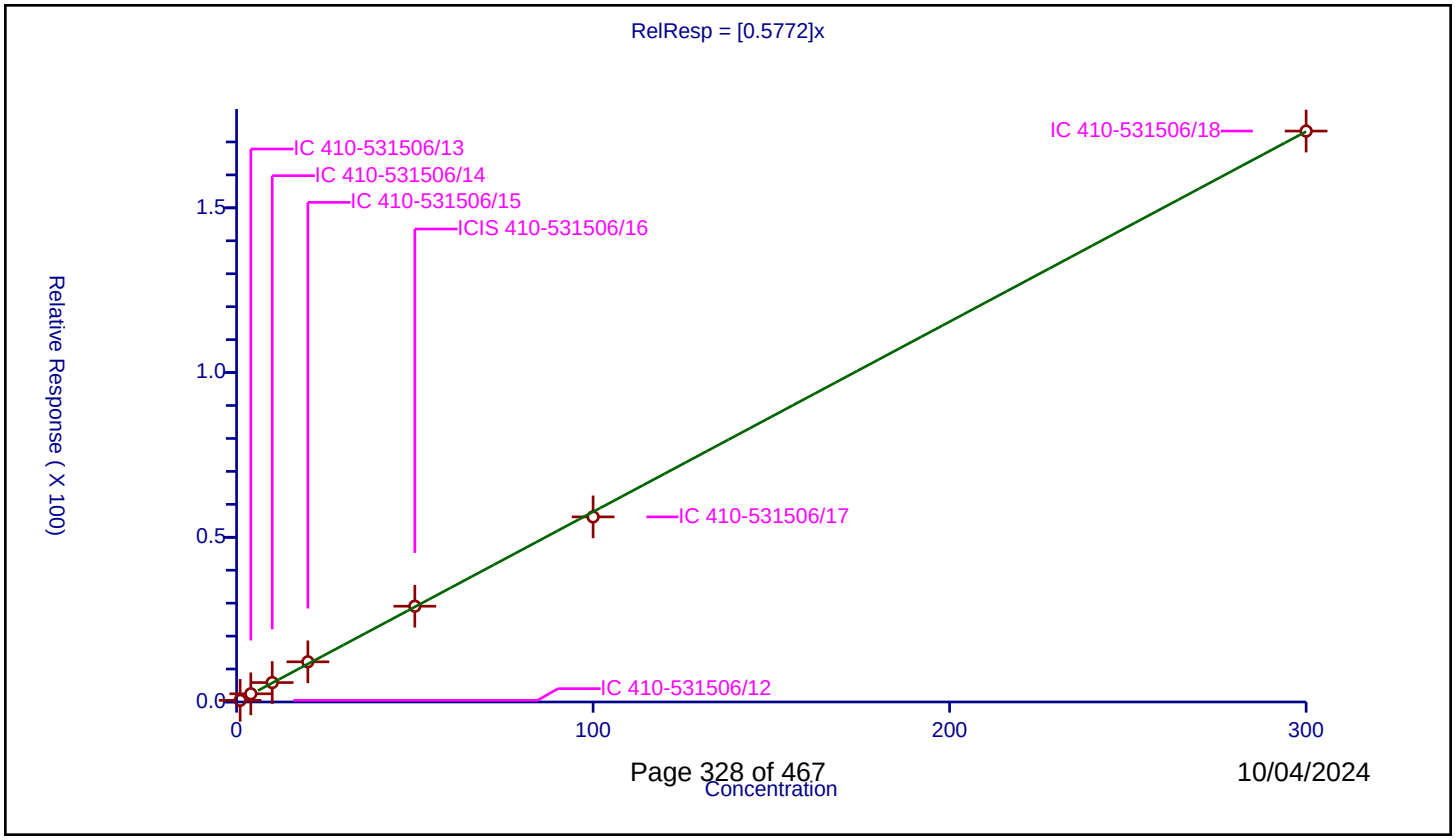
Curve Coefficients

Intercept:	0
Slope:	0.5772

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.497394	50.0	1349937.0	0.497394	Y
2	IC 410-531506/13	4.0	2.489839	50.0	1289742.0	0.62246	Y
3	IC 410-531506/14	10.0	5.897449	50.0	1319825.0	0.589745	Y
4	IC 410-531506/15	20.0	12.19619	50.0	1310606.0	0.60981	Y
5	ICIS 410-531506/16	50.0	29.073523	50.0	1347341.0	0.58147	Y
6	IC 410-531506/17	100.0	56.186415	50.0	1351138.0	0.561864	Y
7	IC 410-531506/18	300.0	173.303994	50.0	1365045.0	0.57768	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

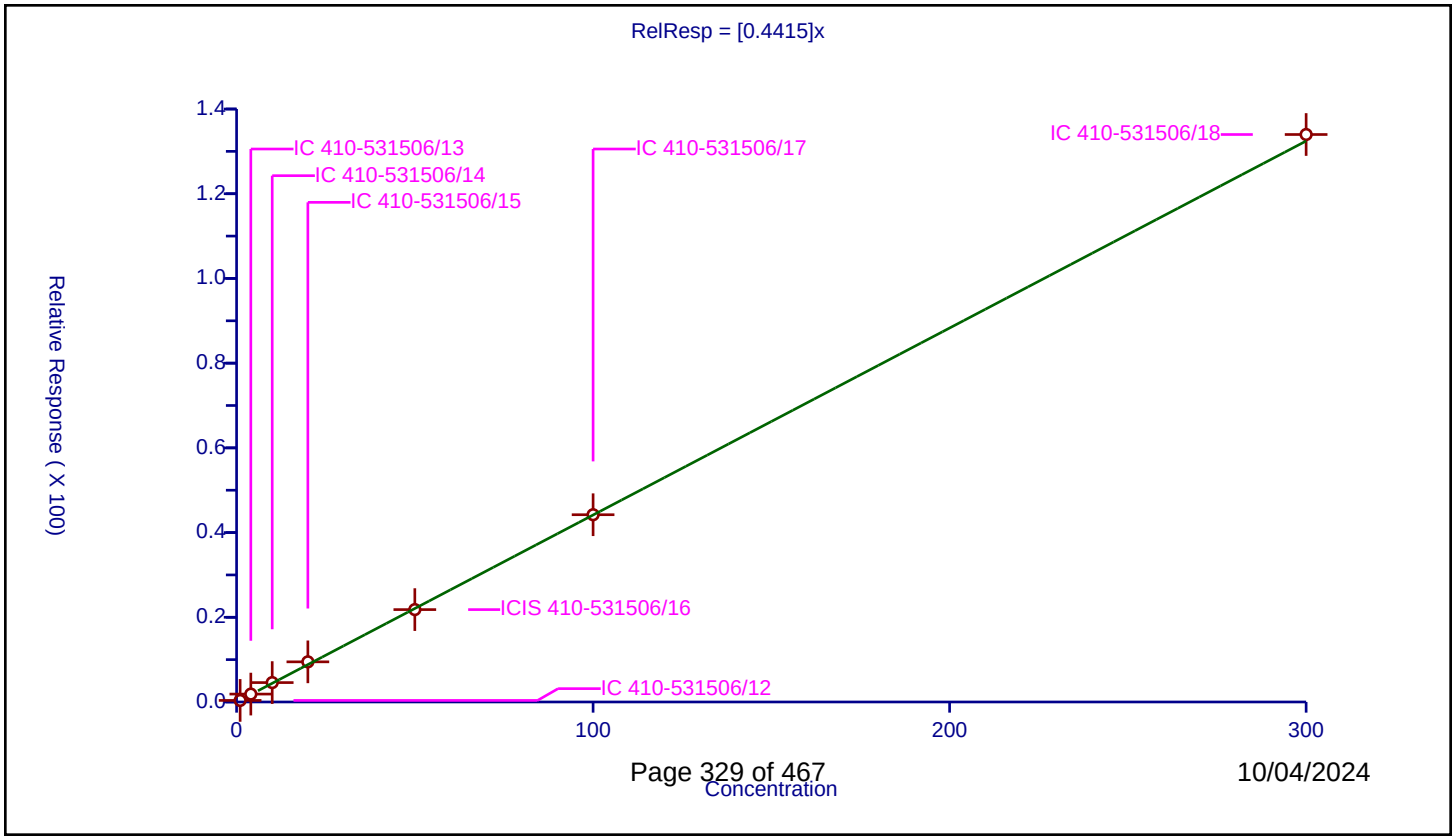
Curve Coefficients

Intercept:	0
Slope:	0.4415

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.367721	50.0	1349937.0	0.367721	Y
2	IC 410-531506/13	4.0	1.863822	50.0	1289742.0	0.465956	Y
3	IC 410-531506/14	10.0	4.578145	50.0	1319825.0	0.457814	Y
4	IC 410-531506/15	20.0	9.47741	50.0	1310606.0	0.47387	Y
5	ICIS 410-531506/16	50.0	21.812221	50.0	1347341.0	0.436244	Y
6	IC 410-531506/17	100.0	44.214766	50.0	1351138.0	0.442148	Y
7	IC 410-531506/18	300.0	133.981078	50.0	1365045.0	0.446604	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

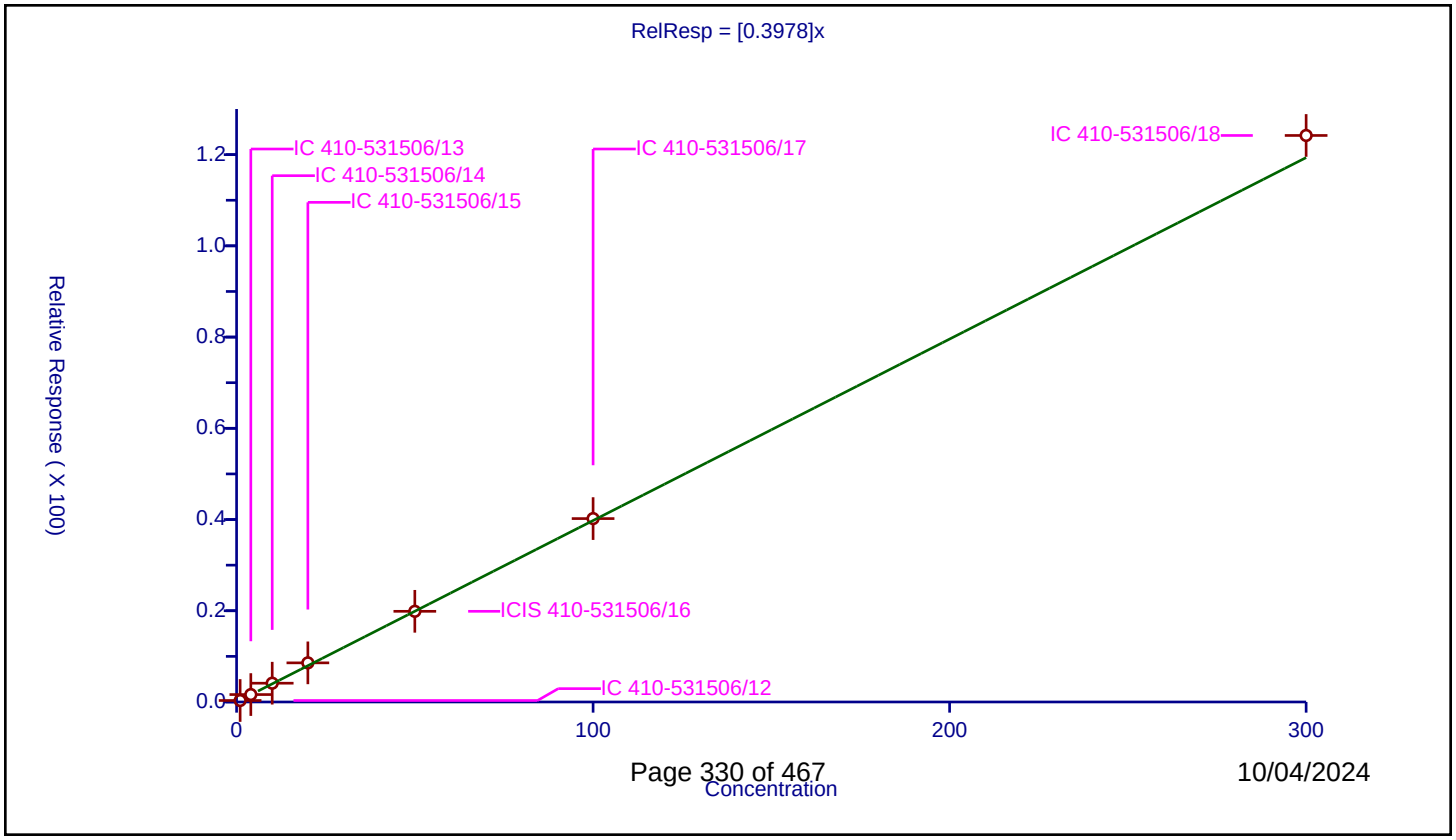
Curve Coefficients

Intercept:	0
Slope:	0.3978

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.322422	50.0	1349937.0	0.322422	Y
2	IC 410-531506/13	4.0	1.630442	50.0	1289742.0	0.407611	Y
3	IC 410-531506/14	10.0	4.120736	50.0	1319825.0	0.412074	Y
4	IC 410-531506/15	20.0	8.579237	50.0	1310606.0	0.428962	Y
5	ICIS 410-531506/16	50.0	19.882012	50.0	1347341.0	0.39764	Y
6	IC 410-531506/17	100.0	40.208106	50.0	1351138.0	0.402081	Y
7	IC 410-531506/18	300.0	124.200924	50.0	1365045.0	0.414003	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

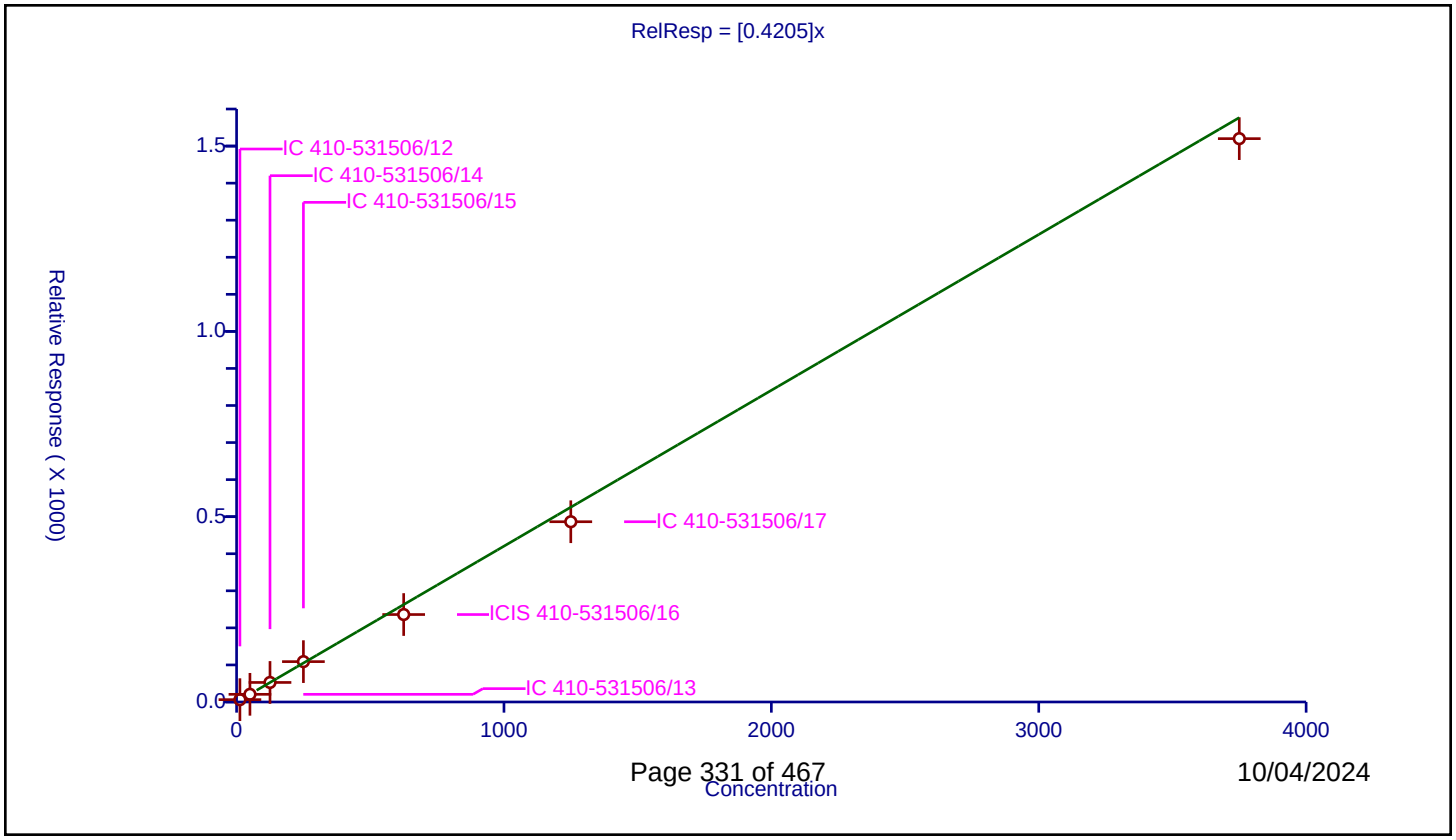
Curve Coefficients

Intercept:	0
Slope:	0.4205

Error Coefficients

Relative Standard Deviation:	9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	12.5	6.261846	250.0	468512.0	0.500948	Y
2	IC 410-531506/13	50.0	20.662656	250.0	466034.0	0.413253	Y
3	IC 410-531506/14	125.0	52.68494	250.0	493903.0	0.42148	Y
4	IC 410-531506/15	250.0	108.904587	250.0	469567.0	0.435618	Y
5	ICIS 410-531506/16	625.0	235.98928	250.0	479829.0	0.377583	Y
6	IC 410-531506/17	1250.0	486.357792	250.0	532007.0	0.389086	Y
7	IC 410-531506/18	3750.0	1520.044855	250.0	439190.0	0.405345	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

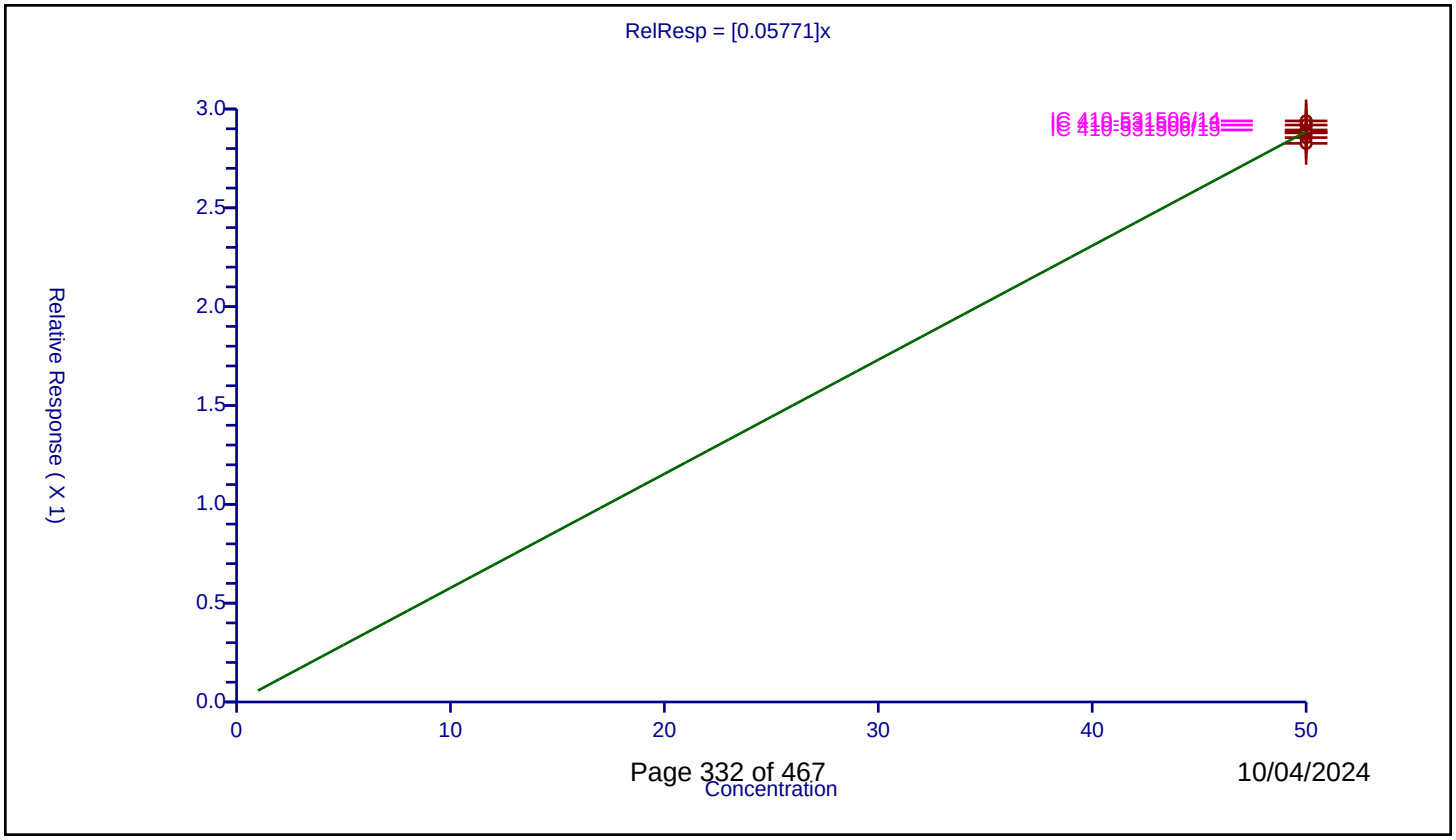
Curve Coefficients

Intercept:	0
Slope:	0.05771

Error Coefficients

Relative Standard Deviation:	1.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	50.0	2.879431	50.0	1349937.0	0.057589	Y
2	IC 410-531506/13	50.0	2.919072	50.0	1289742.0	0.058381	Y
3	IC 410-531506/14	50.0	2.939784	50.0	1319825.0	0.058796	Y
4	IC 410-531506/15	50.0	2.894005	50.0	1310606.0	0.05788	Y
5	ICIS 410-531506/16	50.0	2.883643	50.0	1347341.0	0.057673	Y
6	IC 410-531506/17	50.0	2.82621	50.0	1351138.0	0.056524	Y
7	IC 410-531506/18	50.0	2.855437	50.0	1365045.0	0.057109	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

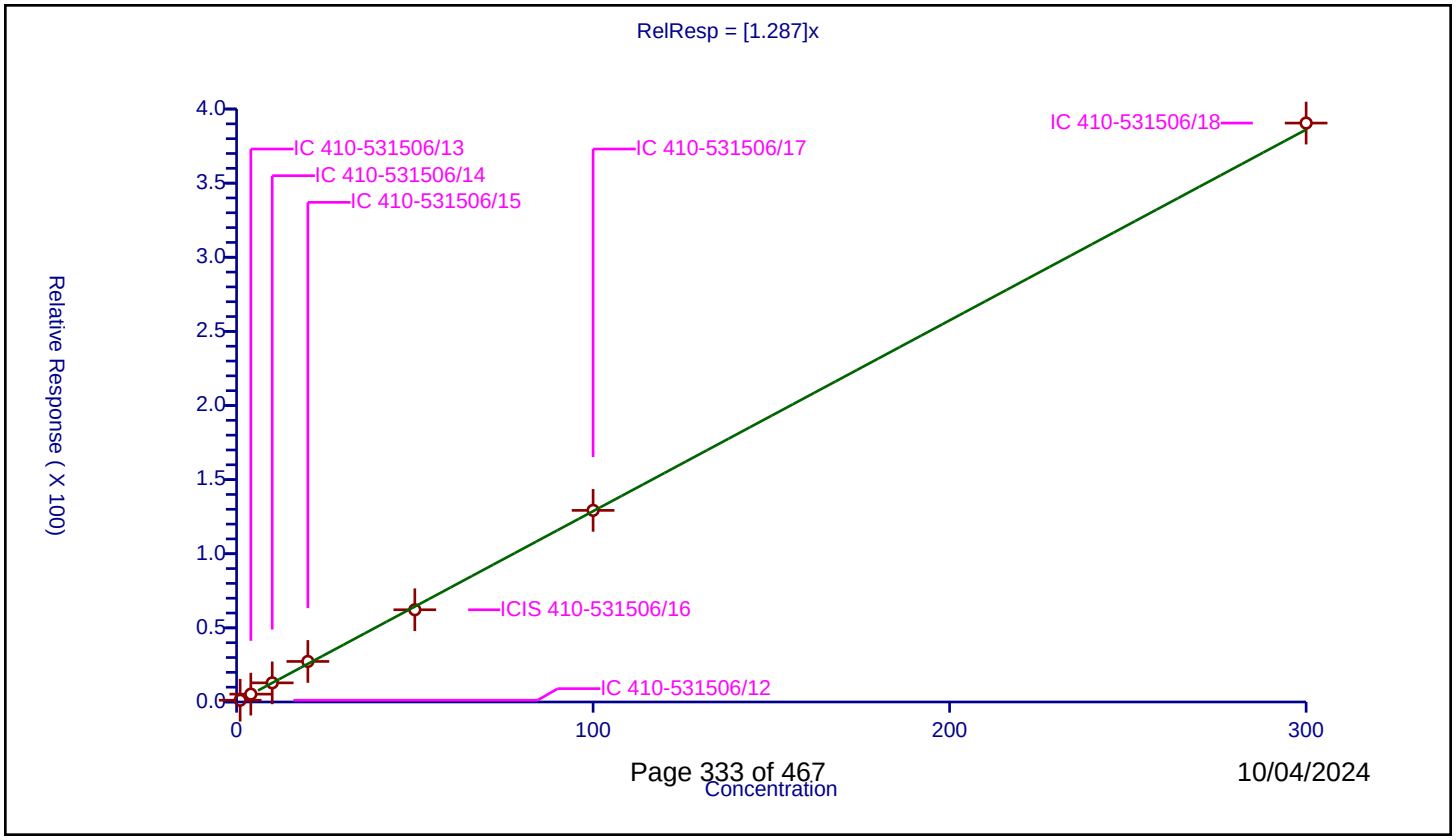
Curve Coefficients

Intercept:	0
Slope:	1.287

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	1.184981	50.0	1349937.0	1.184981	Y
2	IC 410-531506/13	4.0	5.306371	50.0	1289742.0	1.326593	Y
3	IC 410-531506/14	10.0	12.9155	50.0	1319825.0	1.29155	Y
4	IC 410-531506/15	20.0	27.355513	50.0	1310606.0	1.367776	Y
5	ICIS 410-531506/16	50.0	62.208639	50.0	1347341.0	1.244173	Y
6	IC 410-531506/17	100.0	129.261704	50.0	1351138.0	1.292617	Y
7	IC 410-531506/18	300.0	390.525367	50.0	1365045.0	1.301751	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

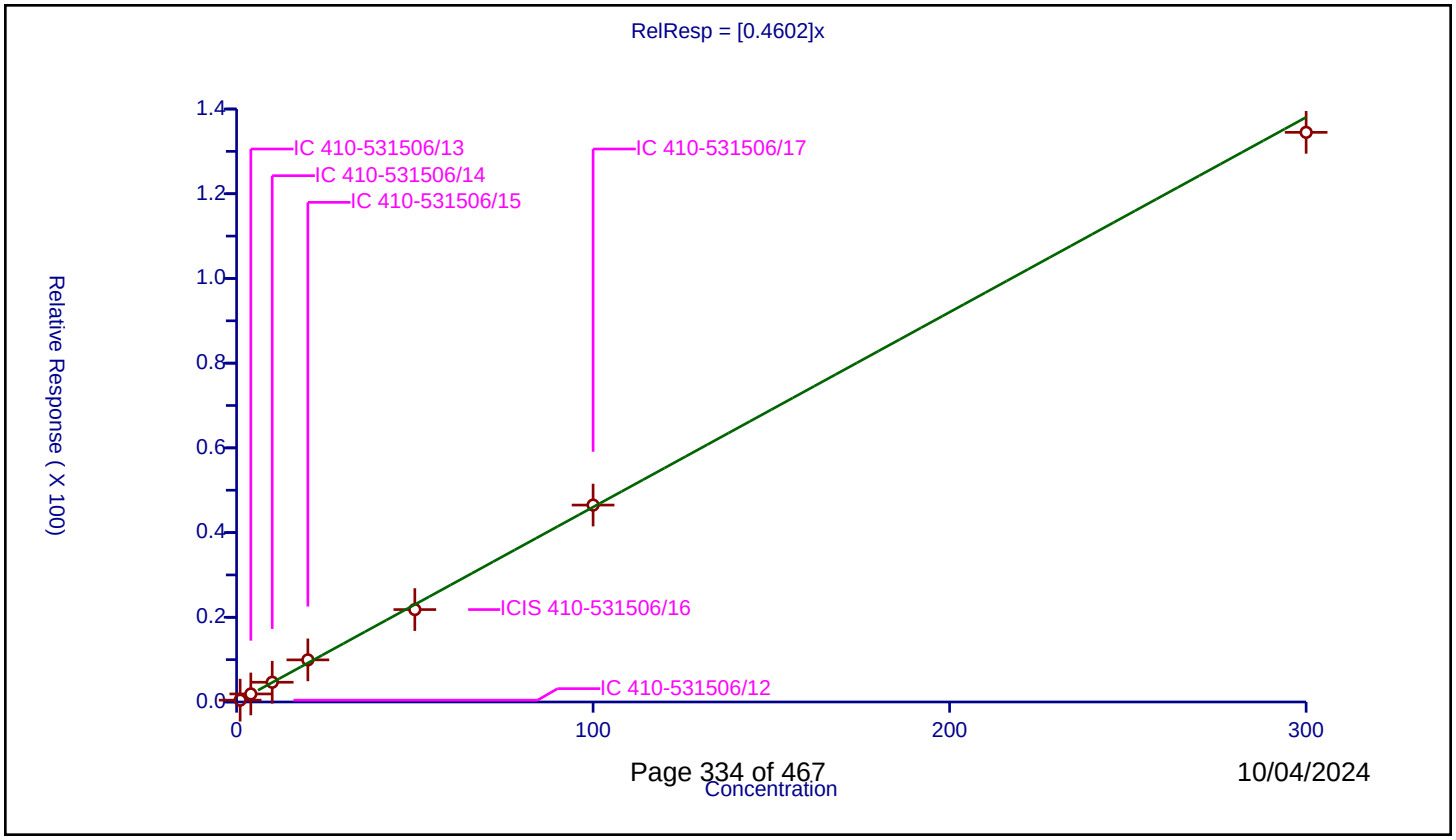
Curve Coefficients

Intercept:	0
Slope:	0.4602

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.433761	50.0	1349937.0	0.433761	Y
2	IC 410-531506/13	4.0	1.897938	50.0	1289742.0	0.474484	Y
3	IC 410-531506/14	10.0	4.662664	50.0	1319825.0	0.466266	Y
4	IC 410-531506/15	20.0	9.942233	50.0	1310606.0	0.497112	Y
5	ICIS 410-531506/16	50.0	21.818419	50.0	1347341.0	0.436368	Y
6	IC 410-531506/17	100.0	46.489922	50.0	1351138.0	0.464899	Y
7	IC 410-531506/18	300.0	134.488057	50.0	1365045.0	0.448294	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

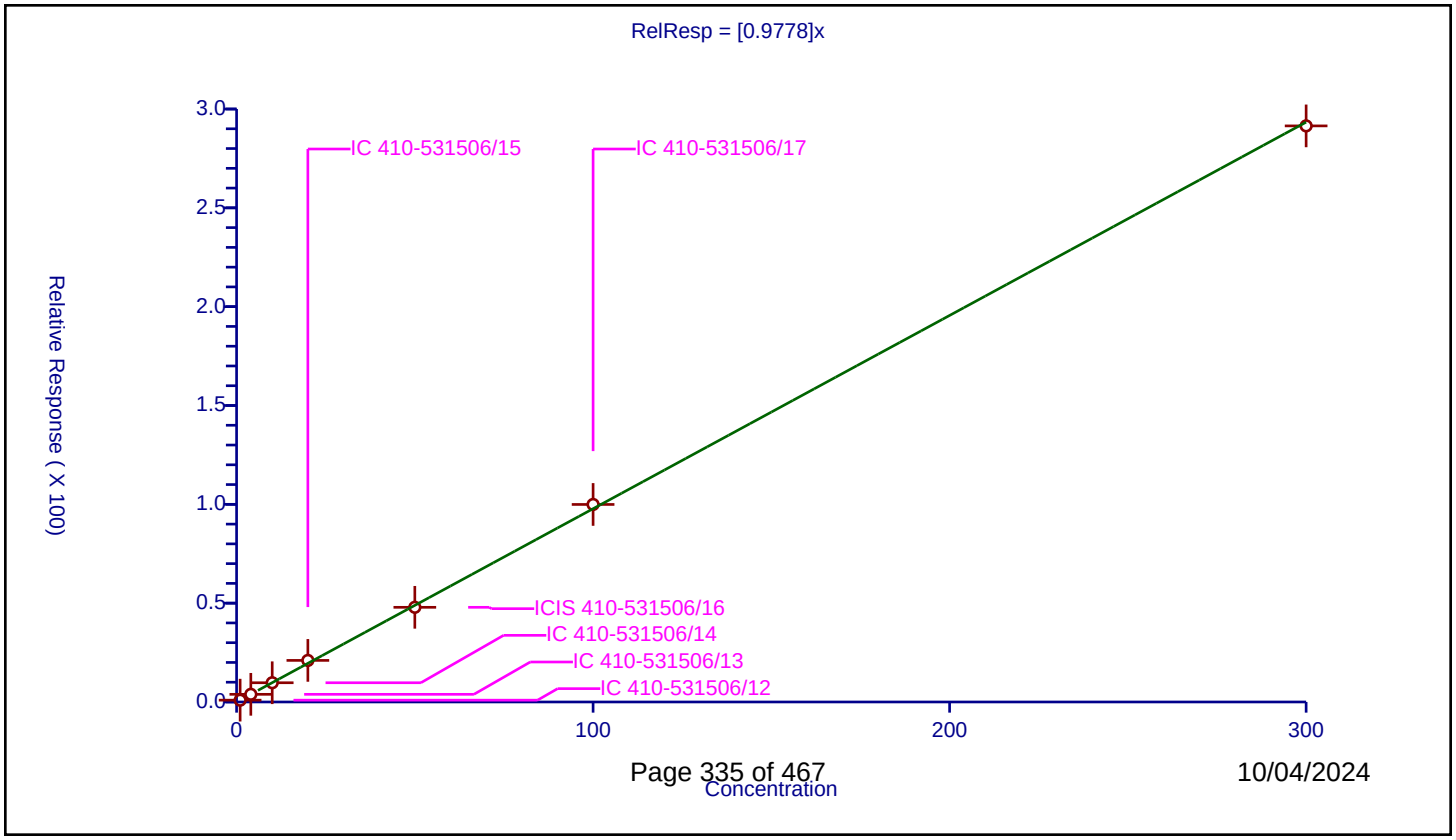
Curve Coefficients

Intercept:	0
Slope:	0.9778

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.921302	50.0	1349937.0	0.921302	Y
2	IC 410-531506/13	4.0	3.876589	50.0	1289742.0	0.969147	Y
3	IC 410-531506/14	10.0	9.736215	50.0	1319825.0	0.973622	Y
4	IC 410-531506/15	20.0	21.032942	50.0	1310606.0	1.051647	Y
5	ICIS 410-531506/16	50.0	47.907286	50.0	1347341.0	0.958146	Y
6	IC 410-531506/17	100.0	99.935425	50.0	1351138.0	0.999354	Y
7	IC 410-531506/18	300.0	291.459183	50.0	1365045.0	0.971531	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

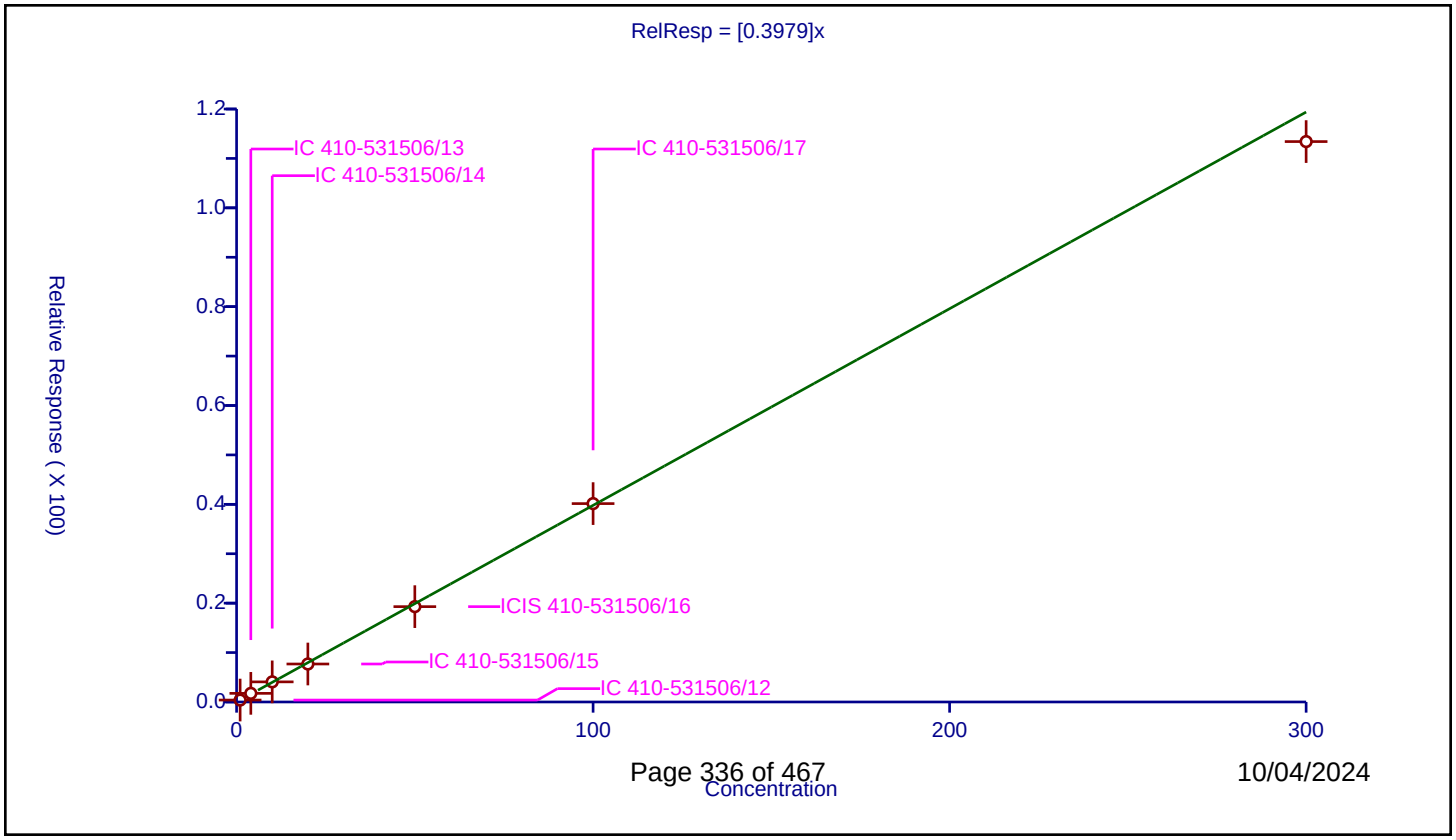
Curve Coefficients

Intercept:	0
Slope:	0.3979

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.392352	50.0	1349937.0	0.392352	Y
2	IC 410-531506/13	4.0	1.745582	50.0	1289742.0	0.436395	Y
3	IC 410-531506/14	10.0	4.070274	50.0	1319825.0	0.407027	Y
4	IC 410-531506/15	20.0	7.688543	50.0	1310606.0	0.384427	Y
5	ICIS 410-531506/16	50.0	19.295672	50.0	1347341.0	0.385913	Y
6	IC 410-531506/17	100.0	40.149785	50.0	1351138.0	0.401498	Y
7	IC 410-531506/18	300.0	113.409558	50.0	1365045.0	0.378032	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

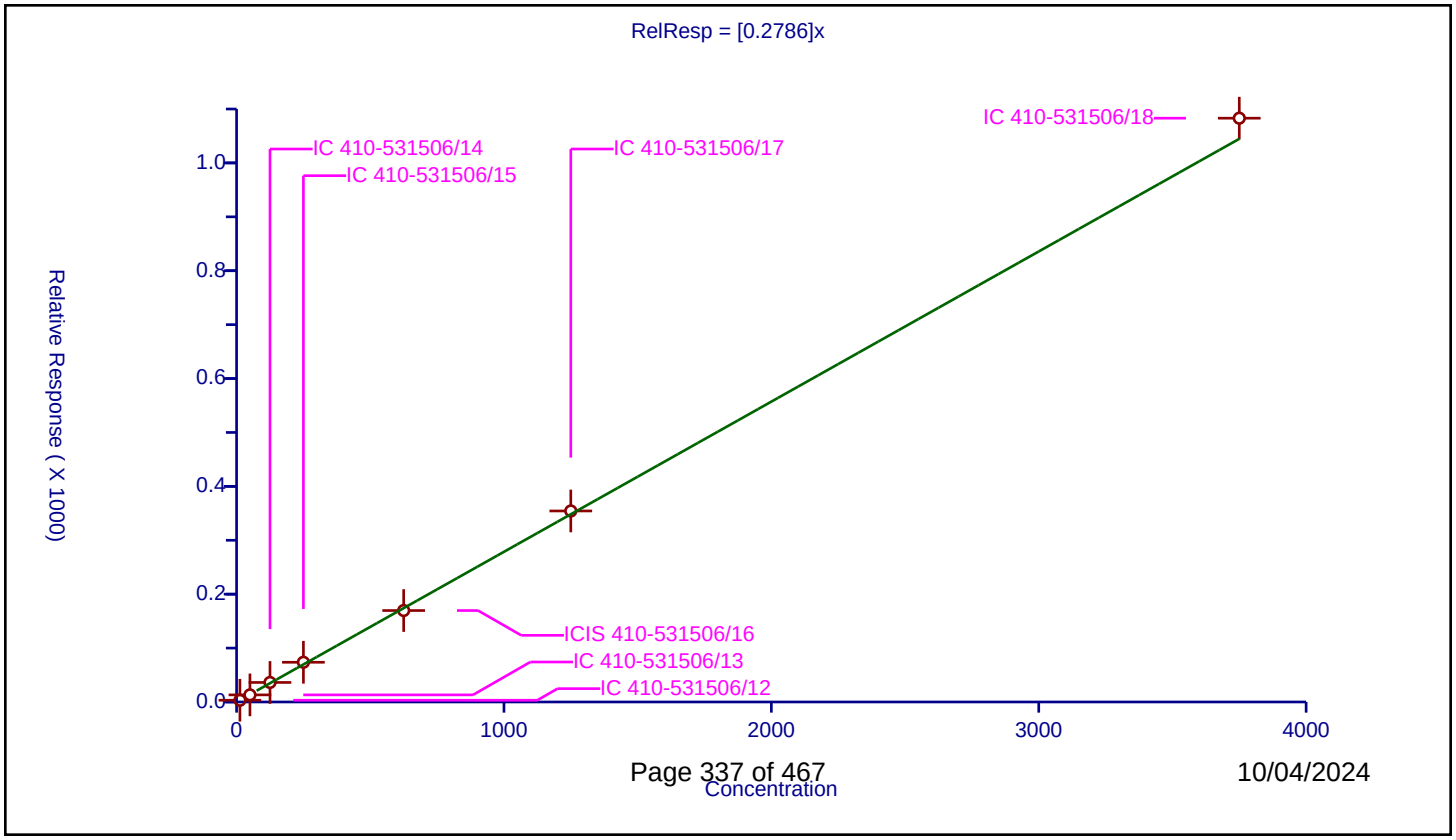
Curve Coefficients

Intercept:	0
Slope:	0.2786

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	12.5	3.224037	250.0	468512.0	0.257923	Y
2	IC 410-531506/13	50.0	13.181442	250.0	466034.0	0.263629	Y
3	IC 410-531506/14	125.0	36.254588	250.0	493903.0	0.290037	Y
4	IC 410-531506/15	250.0	73.674257	250.0	469567.0	0.294697	Y
5	ICIS 410-531506/16	625.0	169.667215	250.0	479829.0	0.271468	Y
6	IC 410-531506/17	1250.0	354.366578	250.0	532007.0	0.283493	Y
7	IC 410-531506/18	3750.0	1082.98117	250.0	439190.0	0.288795	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

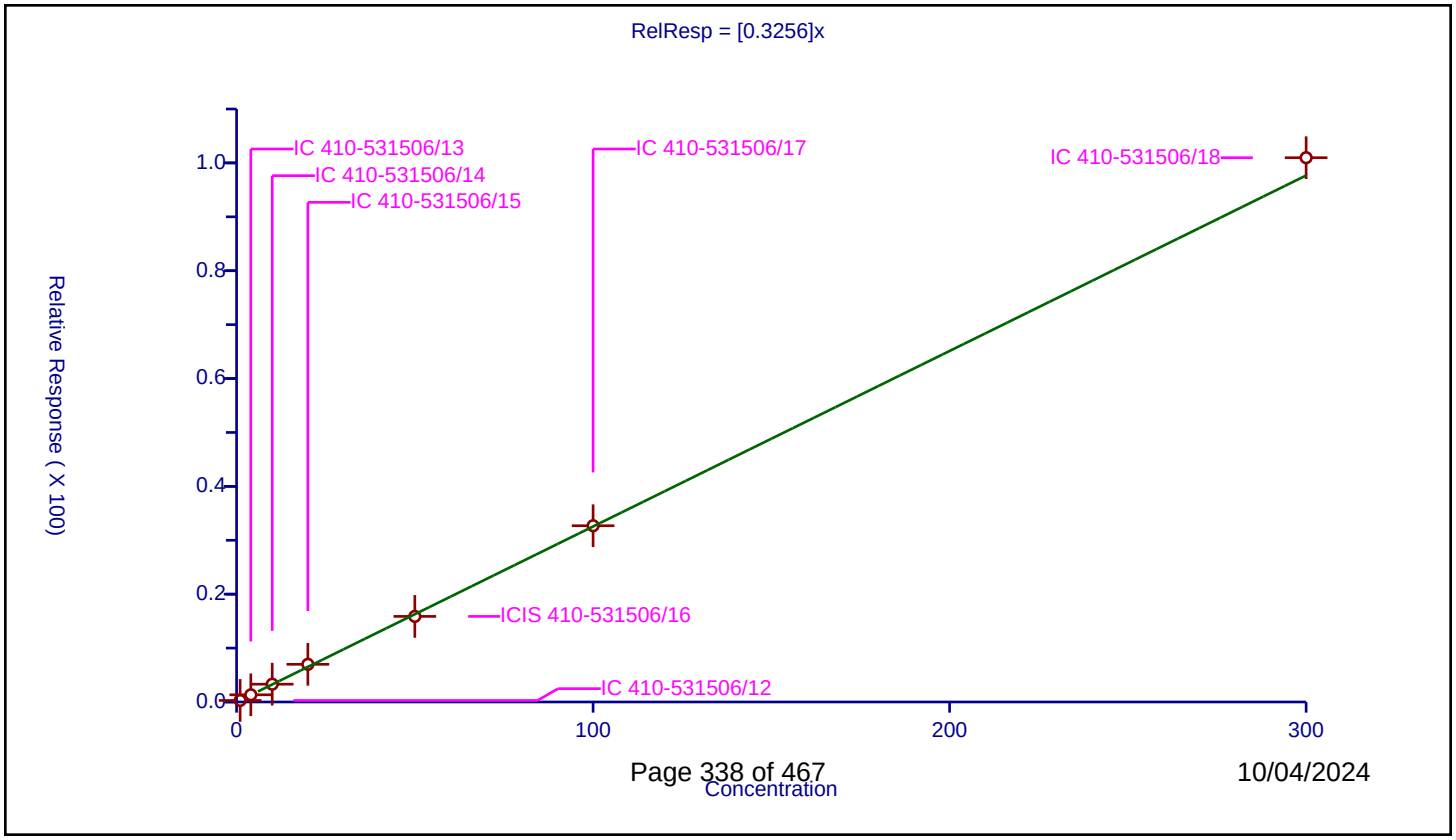
Curve Coefficients

Intercept:	0
Slope:	0.3256

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.285198	50.0	1349937.0	0.285198	Y
2	IC 410-531506/13	4.0	1.333367	50.0	1289742.0	0.333342	Y
3	IC 410-531506/14	10.0	3.300438	50.0	1319825.0	0.330044	Y
4	IC 410-531506/15	20.0	6.986425	50.0	1310606.0	0.349321	Y
5	ICIS 410-531506/16	50.0	15.878311	50.0	1347341.0	0.317566	Y
6	IC 410-531506/17	100.0	32.69555	50.0	1351138.0	0.326955	Y
7	IC 410-531506/18	300.0	100.968539	50.0	1365045.0	0.336562	Y



Calibration / Ethyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

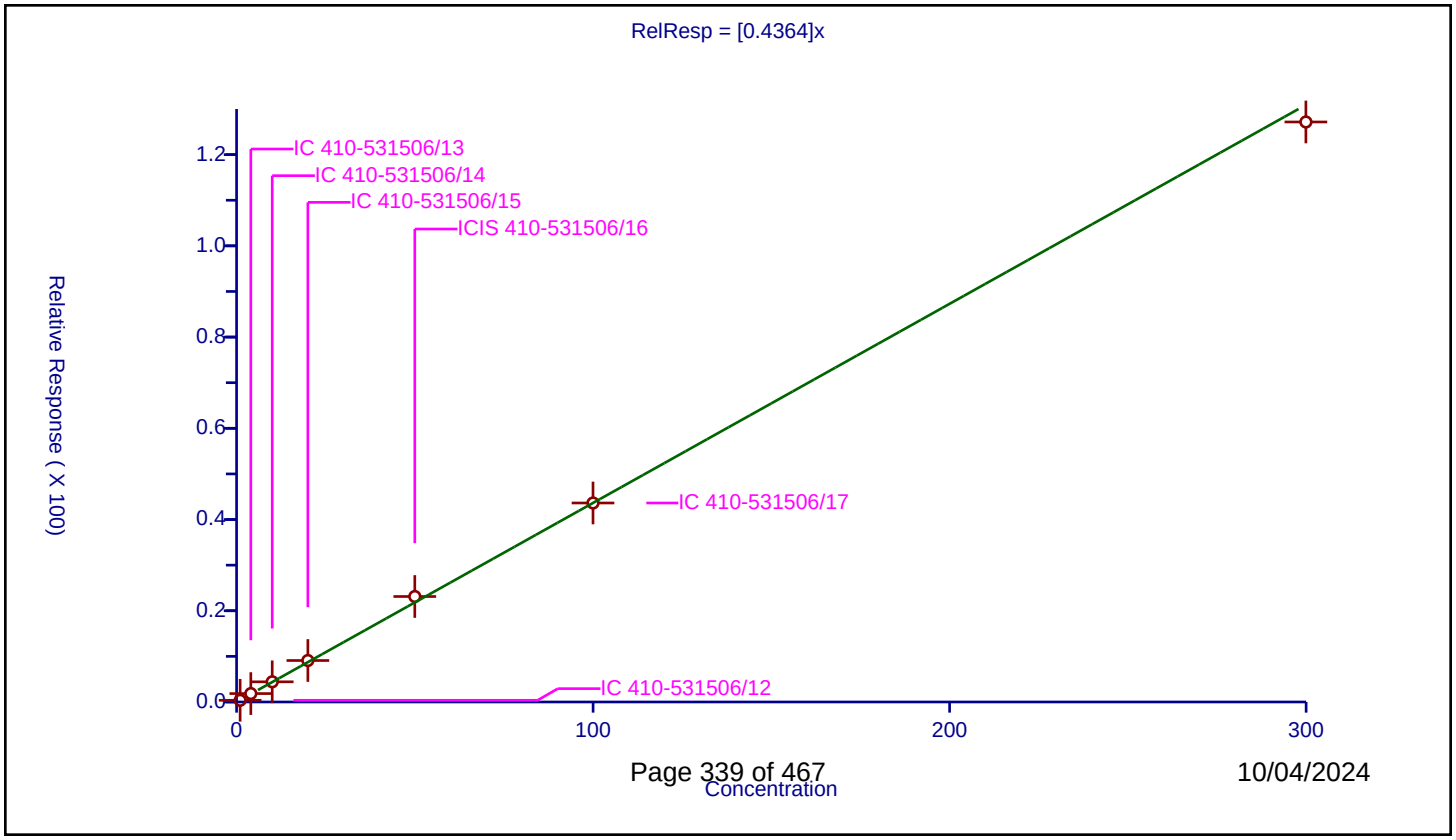
Curve Coefficients

Intercept:	0
Slope:	0.4364

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	0.999796	0.373869	50.0	1349937.0	0.373945	Y
2	IC 410-531506/13	3.999186	1.842888	50.0	1289742.0	0.460816	Y
3	IC 410-531506/14	9.997964	4.424374	50.0	1319825.0	0.442528	Y
4	IC 410-531506/15	19.995928	9.095754	50.0	1310606.0	0.45488	Y
5	ICIS 410-531506/16	49.98982	23.125697	50.0	1347341.0	0.462608	Y
6	IC 410-531506/17	99.97964	43.62752	50.0	1351138.0	0.436364	Y
7	IC 410-531506/18	299.93892	127.158702	50.0	1365045.0	0.423949	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

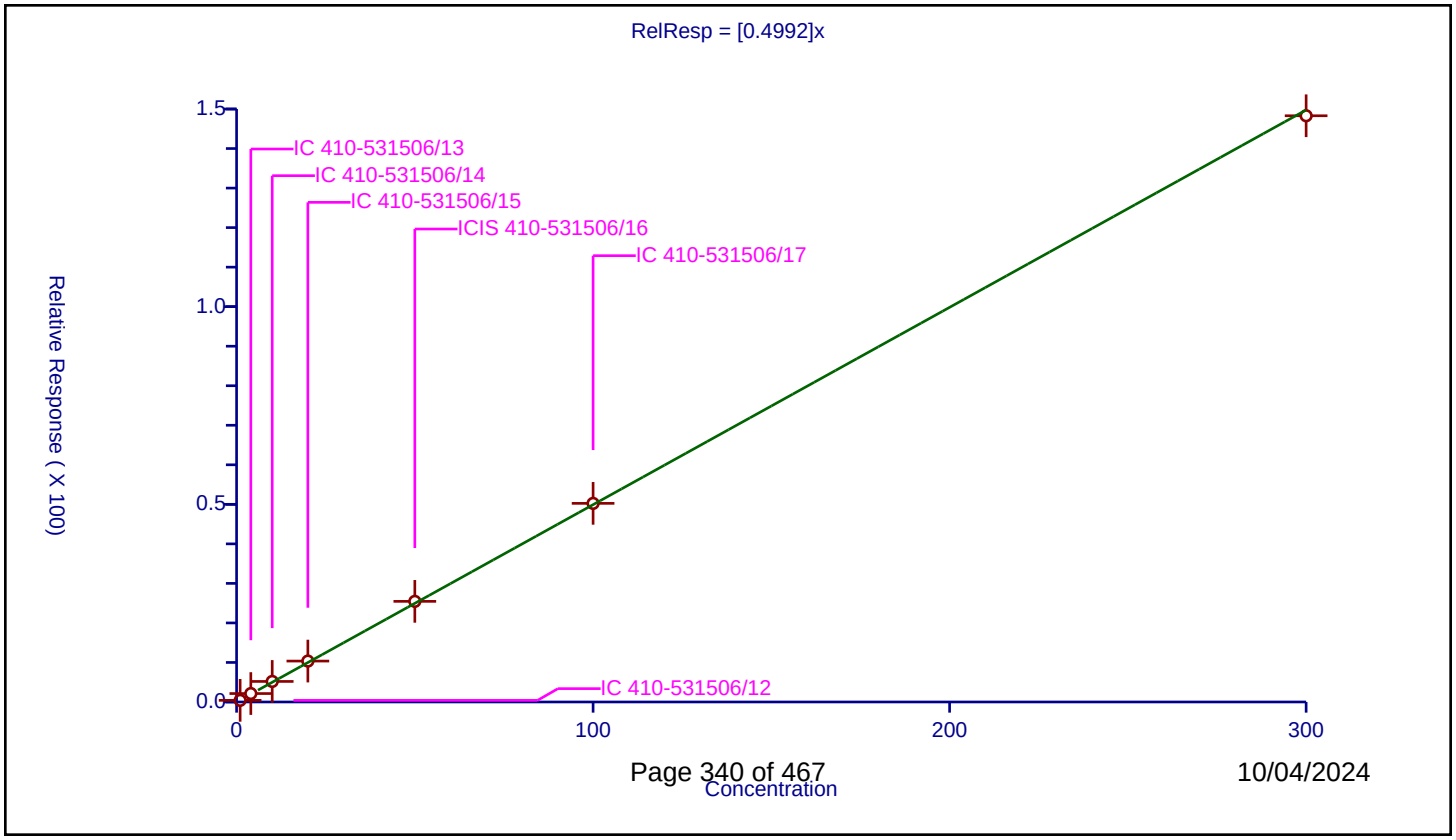
Curve Coefficients

Intercept:	0
Slope:	0.4992

Error Coefficients

Relative Standard Deviation:	7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.417168	50.0	1349937.0	0.417168	Y
2	IC 410-531506/13	4.0	2.134691	50.0	1289742.0	0.533673	Y
3	IC 410-531506/14	10.0	5.199515	50.0	1319825.0	0.519952	Y
4	IC 410-531506/15	20.0	10.350098	50.0	1310606.0	0.517505	Y
5	ICIS 410-531506/16	50.0	25.456362	50.0	1347341.0	0.509127	Y
6	IC 410-531506/17	100.0	50.241685	50.0	1351138.0	0.502417	Y
7	IC 410-531506/18	300.0	148.29024	50.0	1365045.0	0.494301	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

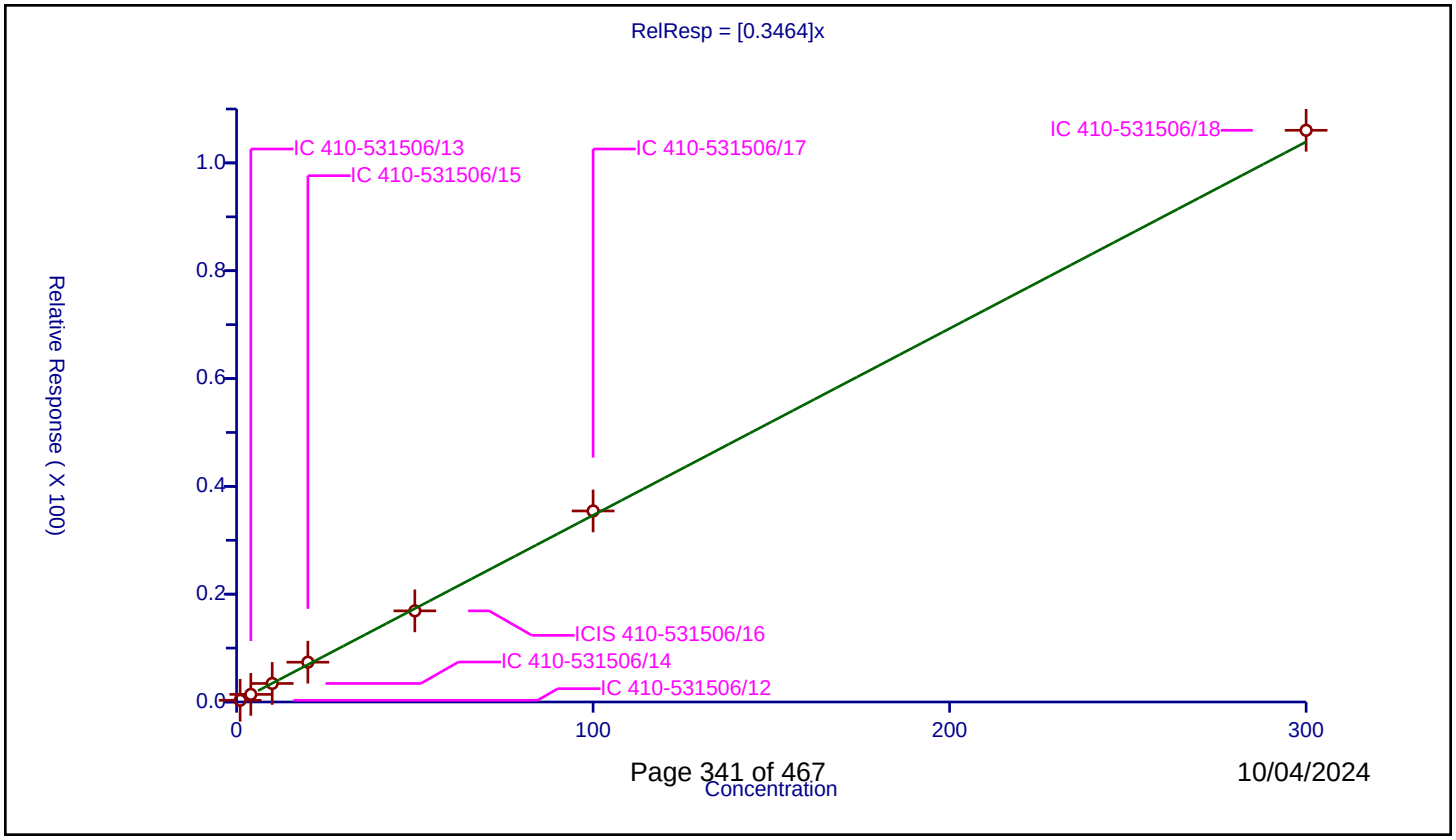
Curve Coefficients

Intercept:	0
Slope:	0.3464

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.313385	50.0	1349937.0	0.313385	Y
2	IC 410-531506/13	4.0	1.410708	50.0	1289742.0	0.352677	Y
3	IC 410-531506/14	10.0	3.436099	50.0	1319825.0	0.34361	Y
4	IC 410-531506/15	20.0	7.381891	50.0	1310606.0	0.369095	Y
5	ICIS 410-531506/16	50.0	16.903701	50.0	1347341.0	0.338074	Y
6	IC 410-531506/17	100.0	35.435092	50.0	1351138.0	0.354351	Y
7	IC 410-531506/18	300.0	106.051449	50.0	1365045.0	0.353505	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

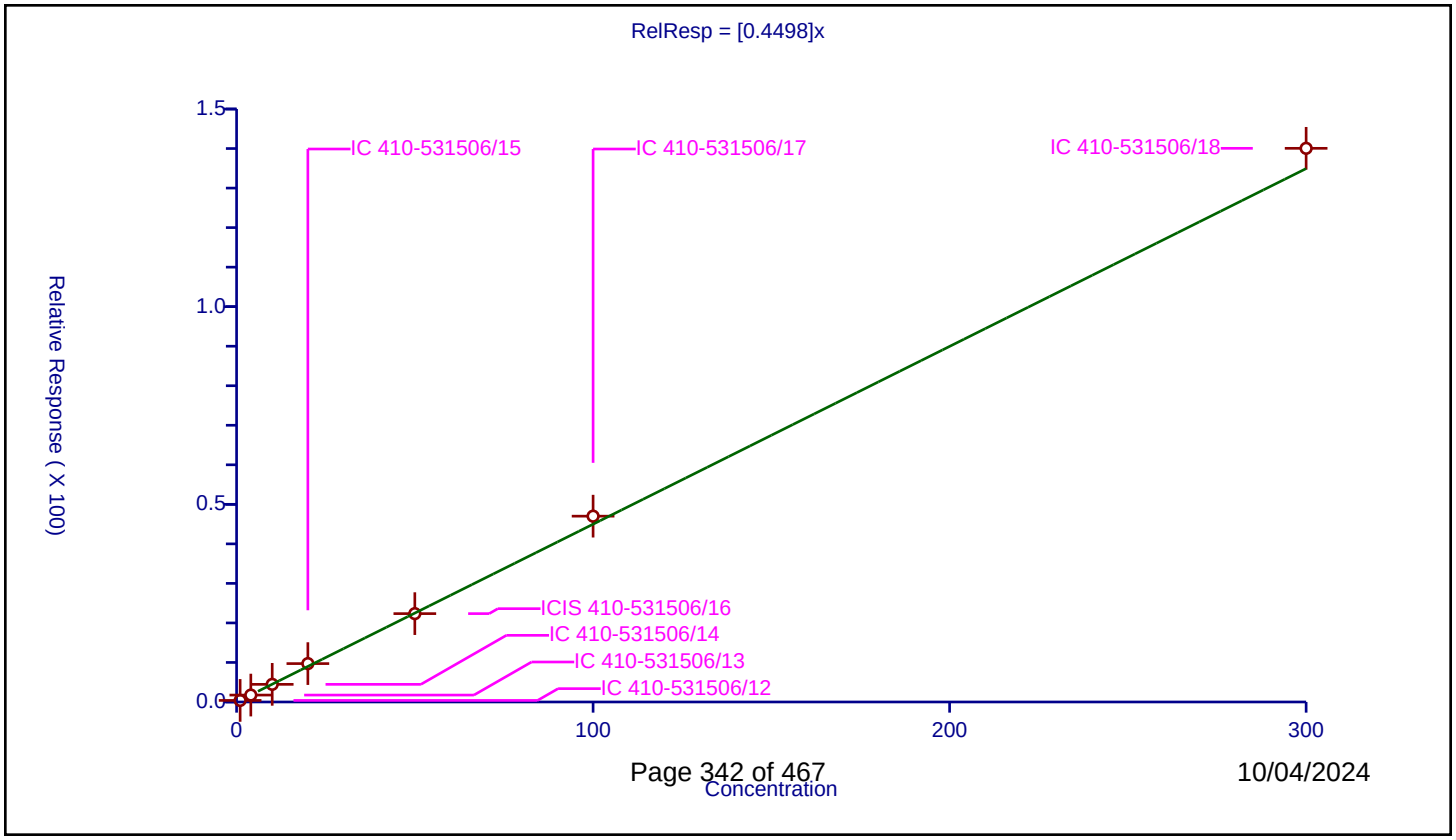
Curve Coefficients

Intercept:	0
Slope:	0.4498

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.394574	50.0	1349937.0	0.394574	Y
2	IC 410-531506/13	4.0	1.750815	50.0	1289742.0	0.437704	Y
3	IC 410-531506/14	10.0	4.464456	50.0	1319825.0	0.446446	Y
4	IC 410-531506/15	20.0	9.712263	50.0	1310606.0	0.485613	Y
5	ICIS 410-531506/16	50.0	22.352099	50.0	1347341.0	0.447042	Y
6	IC 410-531506/17	100.0	47.006782	50.0	1351138.0	0.470068	Y
7	IC 410-531506/18	300.0	140.055017	50.0	1365045.0	0.46685	Y



Calibration / 1,4-Dioxane

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

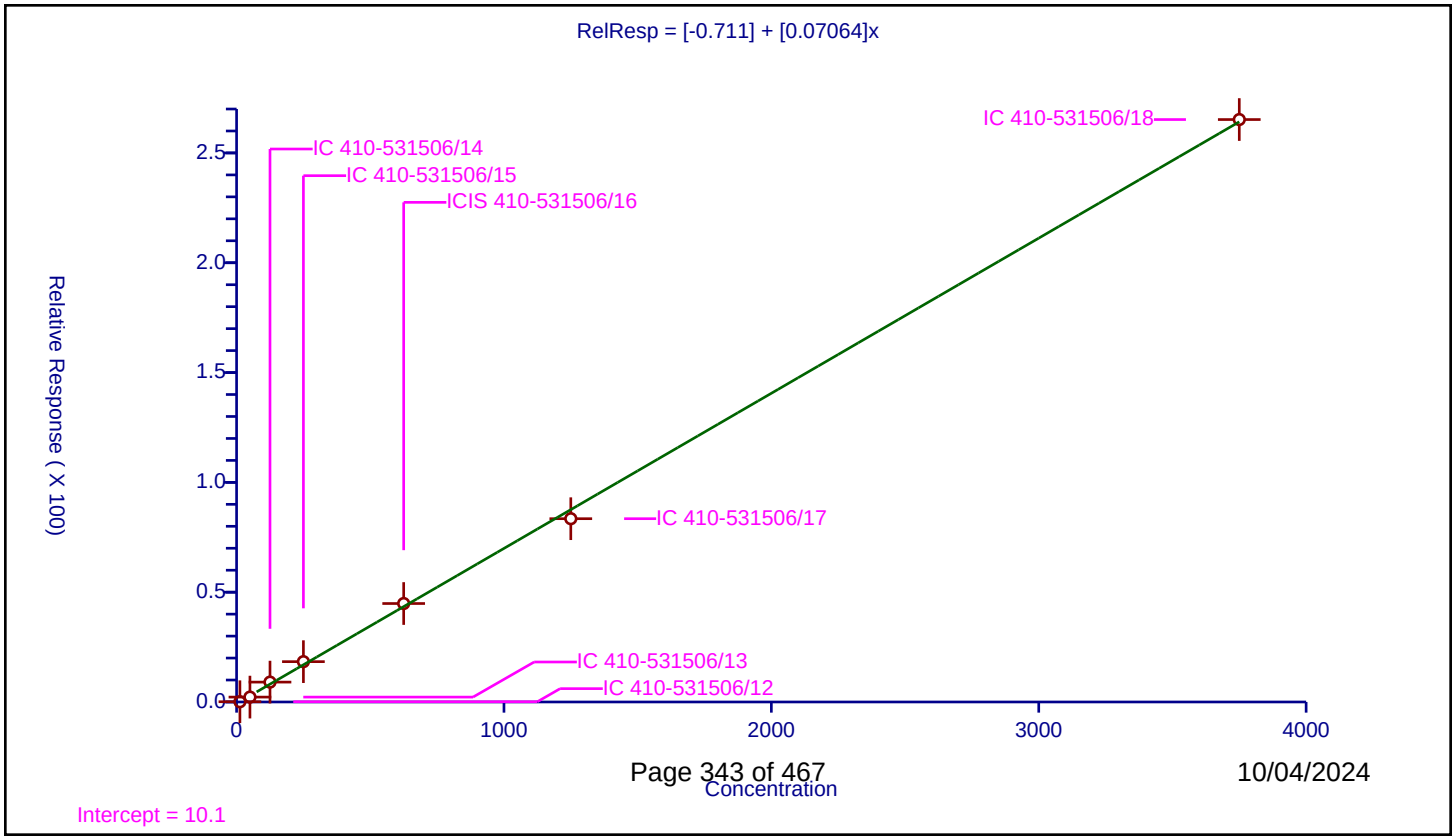
Curve Coefficients

Intercept:	-0.711
Slope:	0.07064

Error Coefficients

Relative Standard Deviation:	10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	12.5	0.119527	250.0	468512.0	0.009562	Y
2	IC 410-531506/13	50.0	2.233743	250.0	466034.0	0.044675	Y
3	IC 410-531506/14	125.0	9.048335	250.0	493903.0	0.072387	Y
4	IC 410-531506/15	250.0	18.362662	250.0	469567.0	0.073451	Y
5	ICIS 410-531506/16	625.0	44.836285	250.0	479829.0	0.071738	Y
6	IC 410-531506/17	1250.0	83.456609	250.0	532007.0	0.066765	Y
7	IC 410-531506/18	3750.0	265.205264	250.0	439190.0	0.070721	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

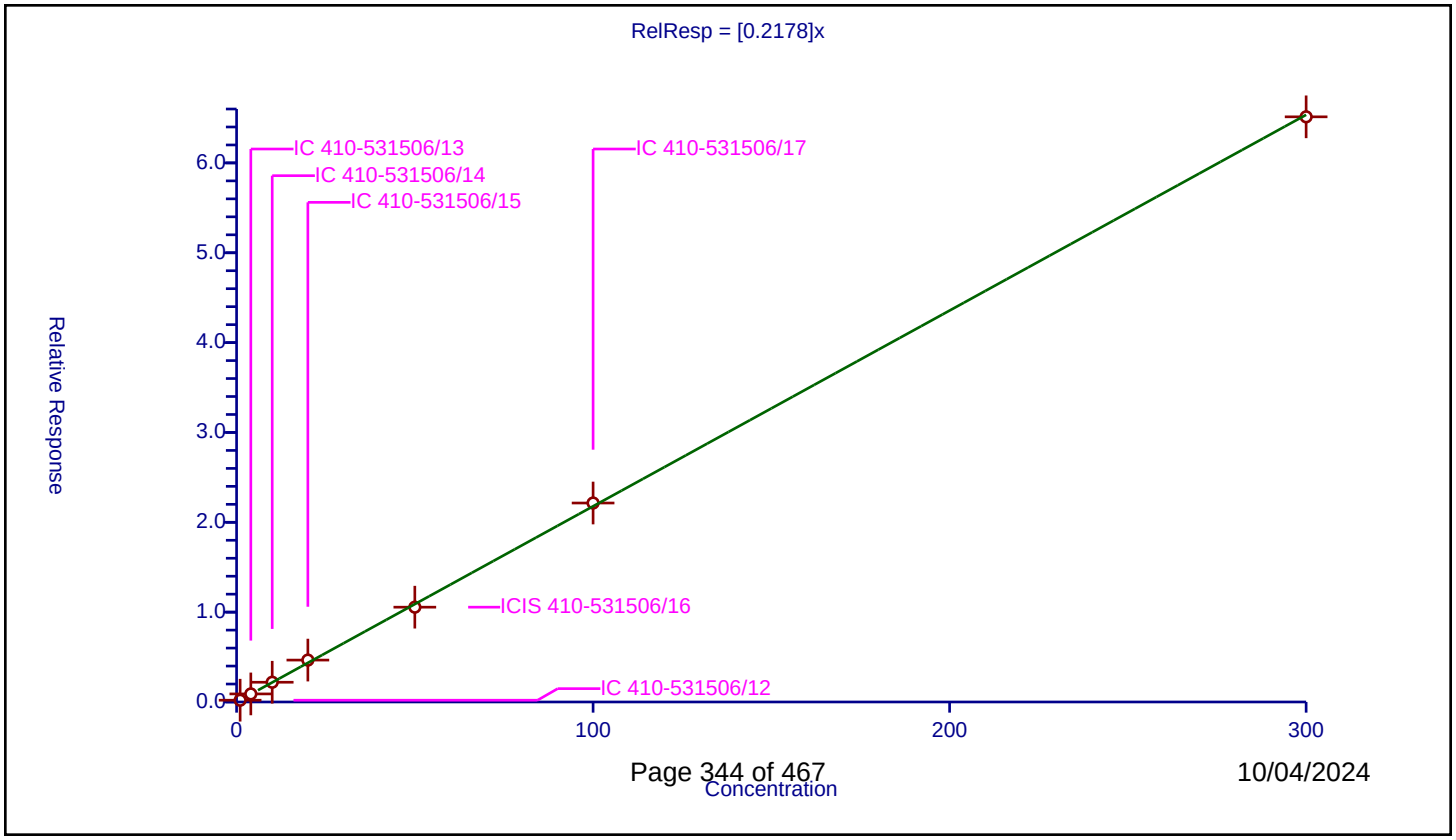
Curve Coefficients

Intercept:	0
Slope:	0.2178

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.197676	50.0	1349937.0	0.197676	Y
2	IC 410-531506/13	4.0	0.898862	50.0	1289742.0	0.224715	Y
3	IC 410-531506/14	10.0	2.196541	50.0	1319825.0	0.219654	Y
4	IC 410-531506/15	20.0	4.664941	50.0	1310606.0	0.233247	Y
5	ICIS 410-531506/16	50.0	10.552191	50.0	1347341.0	0.211044	Y
6	IC 410-531506/17	100.0	22.146961	50.0	1351138.0	0.22147	Y
7	IC 410-531506/18	300.0	65.130893	50.0	1365045.0	0.217103	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

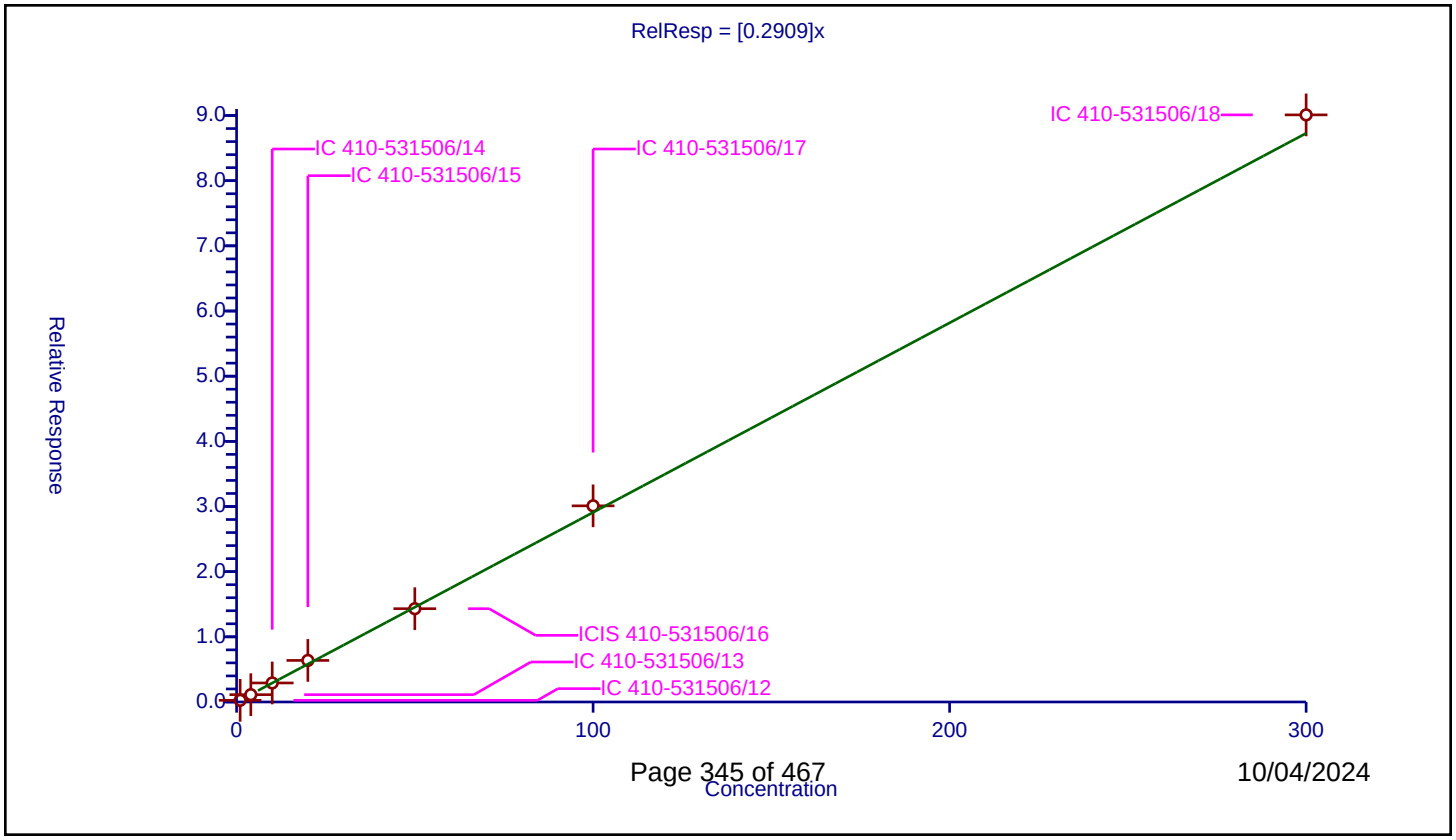
Curve Coefficients

Intercept:	0
Slope:	0.2909

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.257197	50.0	1349937.0	0.257197	Y
2	IC 410-531506/13	4.0	1.122938	50.0	1289742.0	0.280734	Y
3	IC 410-531506/14	10.0	2.920311	50.0	1319825.0	0.292031	Y
4	IC 410-531506/15	20.0	6.376325	50.0	1310606.0	0.318816	Y
5	ICIS 410-531506/16	50.0	14.318127	50.0	1347341.0	0.286363	Y
6	IC 410-531506/17	100.0	30.101218	50.0	1351138.0	0.301012	Y
7	IC 410-531506/18	300.0	90.098641	50.0	1365045.0	0.300329	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

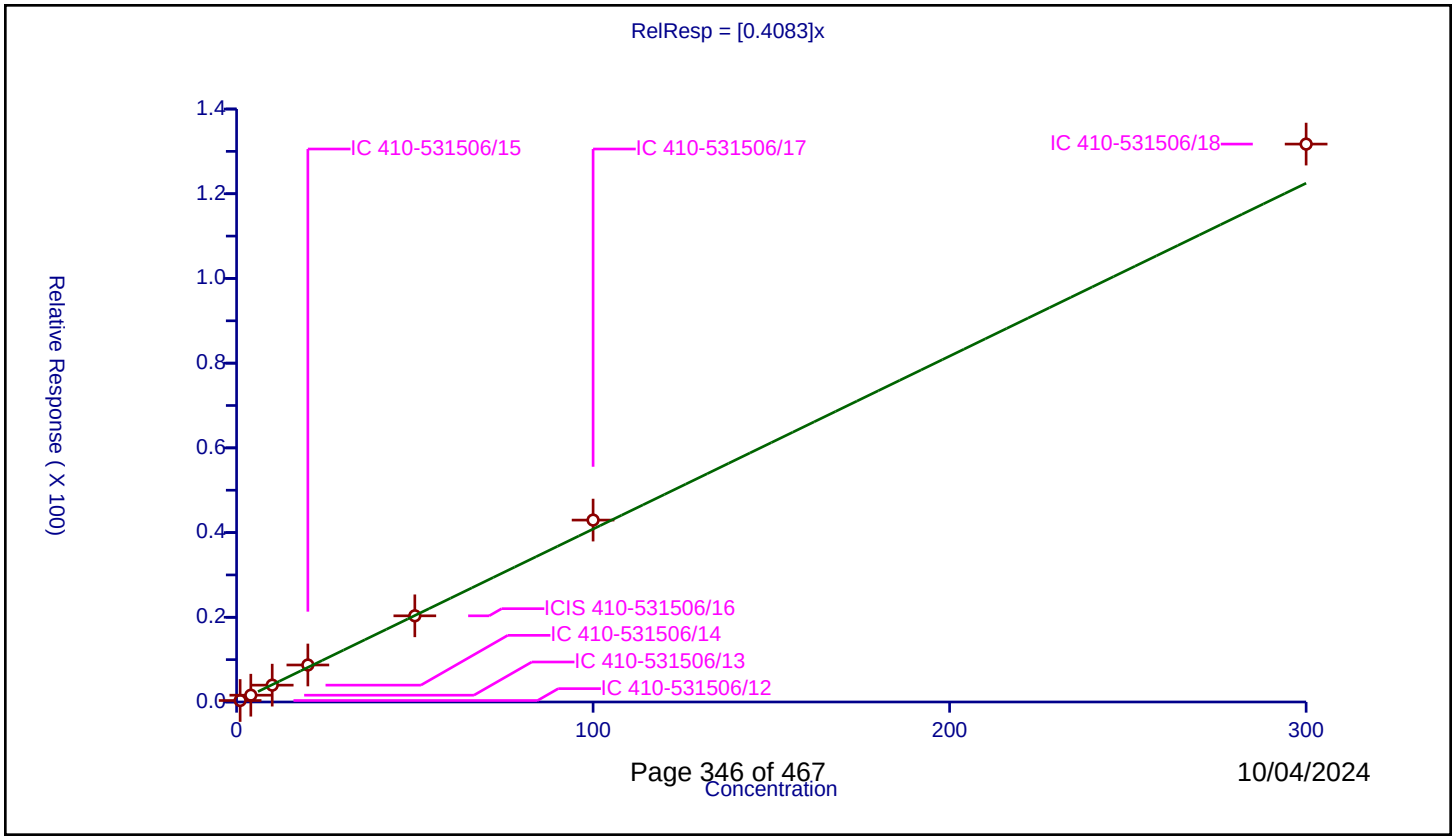
Curve Coefficients

Intercept:	0
Slope:	0.4083

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.347053	50.0	1349937.0	0.347053	Y
2	IC 410-531506/13	4.0	1.603538	50.0	1289742.0	0.400884	Y
3	IC 410-531506/14	10.0	3.977686	50.0	1319825.0	0.397769	Y
4	IC 410-531506/15	20.0	8.73573	50.0	1310606.0	0.436786	Y
5	ICIS 410-531506/16	50.0	20.345703	50.0	1347341.0	0.406914	Y
6	IC 410-531506/17	100.0	42.948241	50.0	1351138.0	0.429482	Y
7	IC 410-531506/18	300.0	131.720273	50.0	1365045.0	0.439068	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

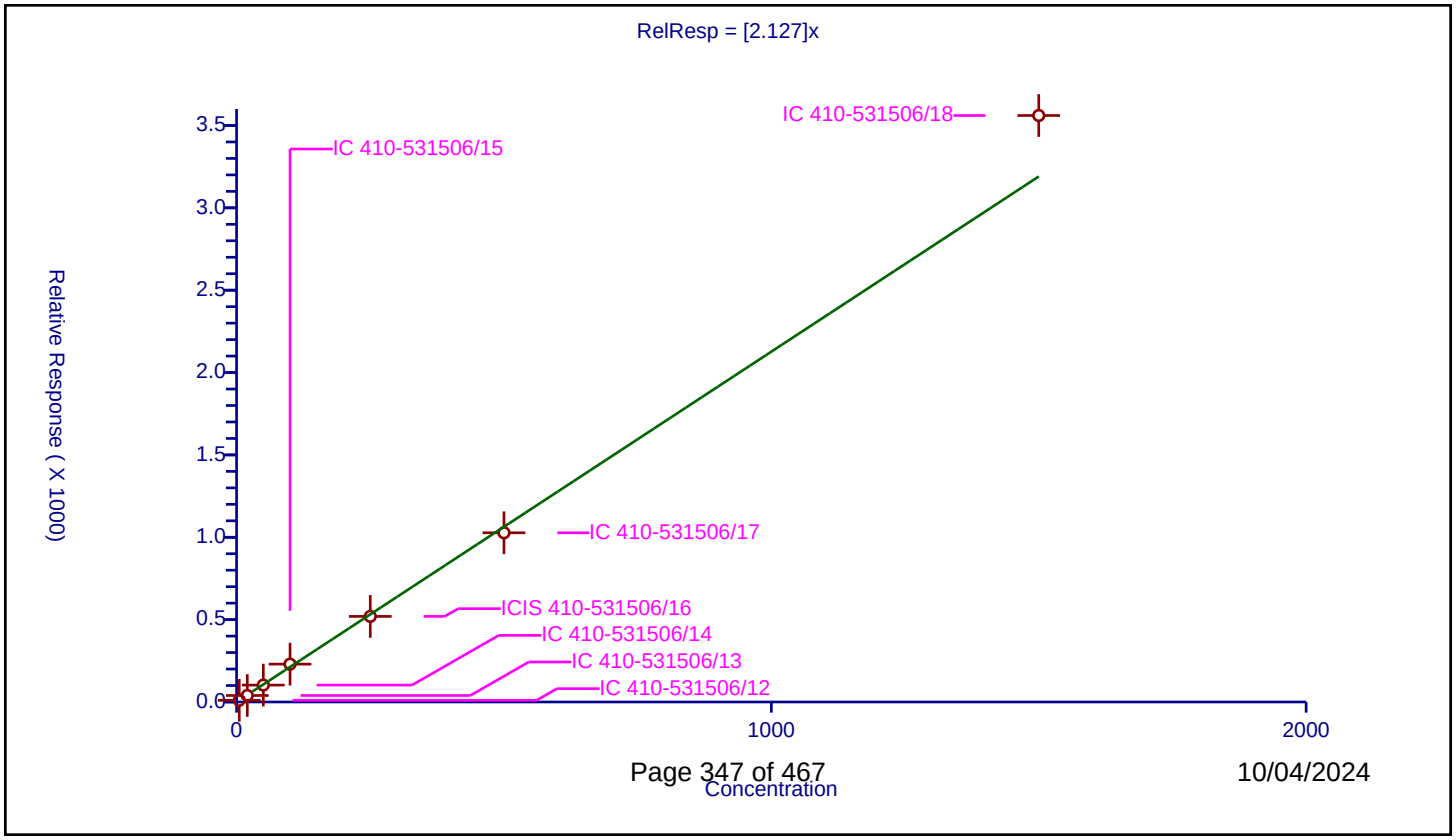
Curve Coefficients

Intercept:	0
Slope:	2.127

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	5.0	10.310835	250.0	468512.0	2.062167	Y
2	IC 410-531506/13	20.0	39.425235	250.0	466034.0	1.971262	Y
3	IC 410-531506/14	50.0	102.521143	250.0	493903.0	2.050423	Y
4	IC 410-531506/15	100.0	229.761674	250.0	469567.0	2.297617	Y
5	ICIS 410-531506/16	250.0	519.600212	250.0	479829.0	2.078401	Y
6	IC 410-531506/17	500.0	1027.349264	250.0	532007.0	2.054699	Y
7	IC 410-531506/18	1500.0	3560.624673	250.0	439190.0	2.37375	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

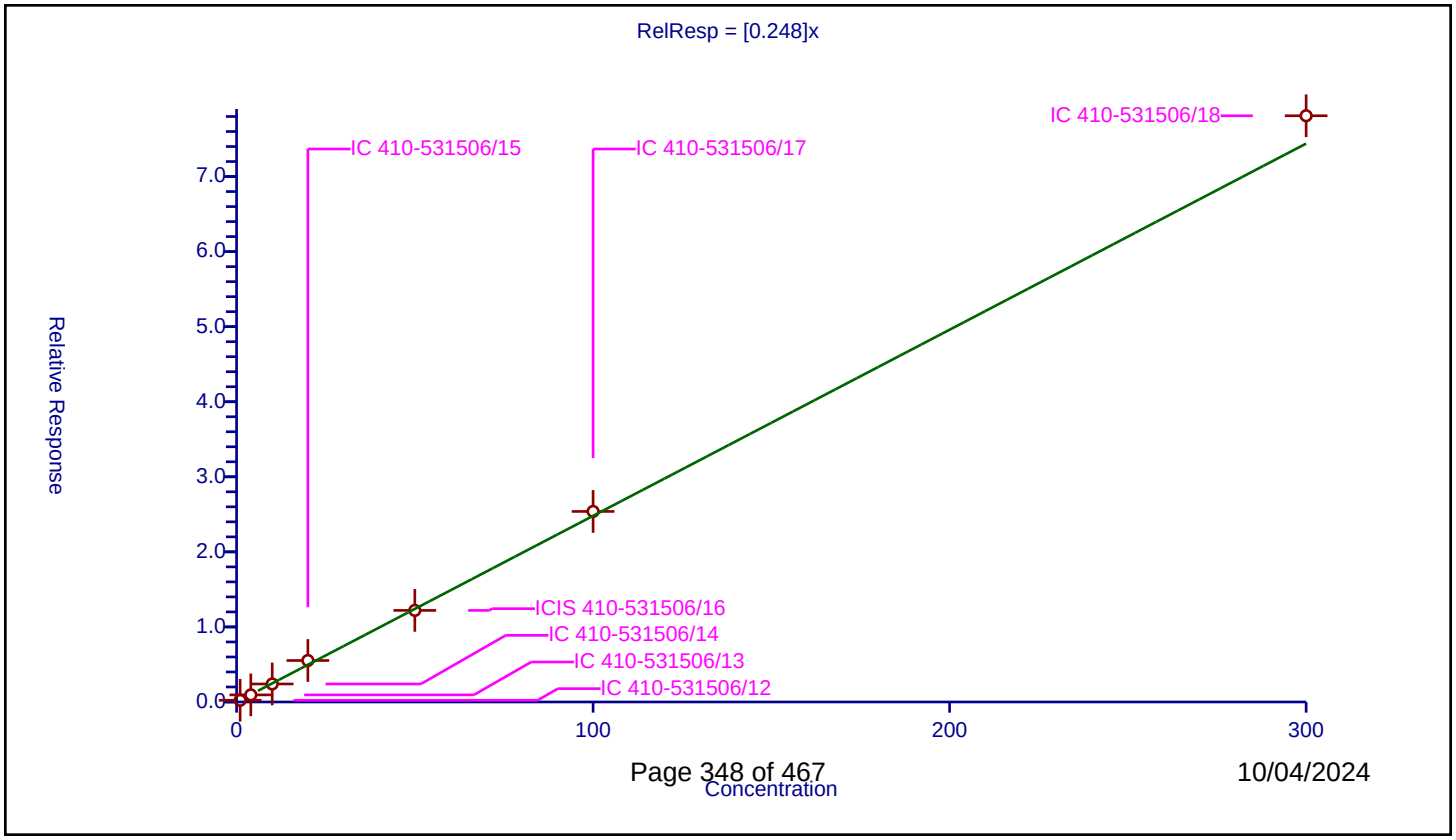
Curve Coefficients

Intercept:	0
Slope:	0.248

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.224566	50.0	1349937.0	0.224566	Y
2	IC 410-531506/13	4.0	0.946546	50.0	1289742.0	0.236636	Y
3	IC 410-531506/14	10.0	2.399826	50.0	1319825.0	0.239983	Y
4	IC 410-531506/15	20.0	5.527481	50.0	1310606.0	0.276374	Y
5	ICIS 410-531506/16	50.0	12.202442	50.0	1347341.0	0.244049	Y
6	IC 410-531506/17	100.0	25.387488	50.0	1351138.0	0.253875	Y
7	IC 410-531506/18	300.0	78.102077	50.0	1365045.0	0.26034	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

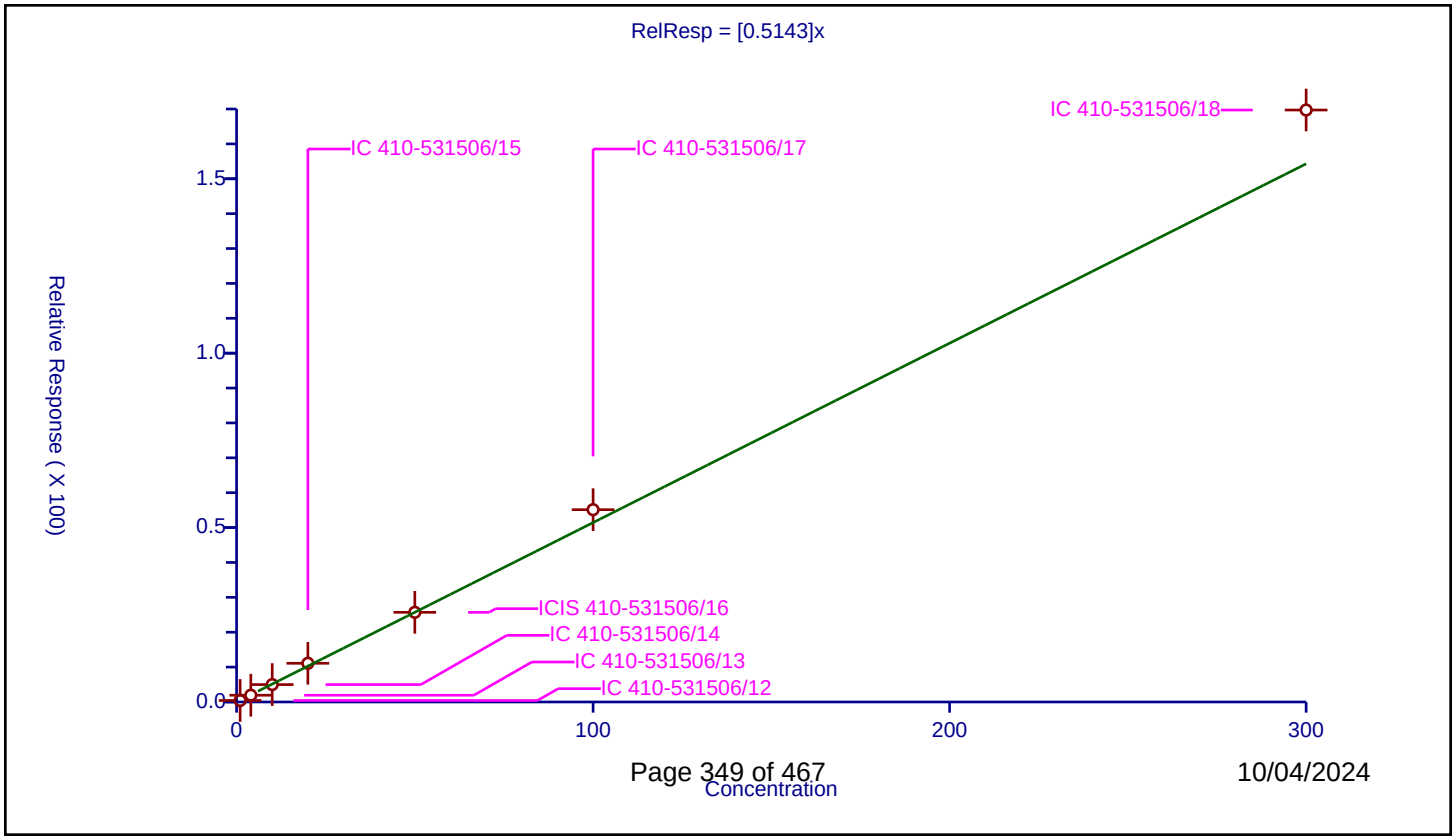
Curve Coefficients

Intercept:	0
Slope:	0.5143

Error Coefficients

Relative Standard Deviation:	9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.430983	50.0	1349937.0	0.430983	Y
2	IC 410-531506/13	4.0	1.938062	50.0	1289742.0	0.484516	Y
3	IC 410-531506/14	10.0	4.987252	50.0	1319825.0	0.498725	Y
4	IC 410-531506/15	20.0	11.093799	50.0	1310606.0	0.55469	Y
5	ICIS 410-531506/16	50.0	25.706781	50.0	1347341.0	0.514136	Y
6	IC 410-531506/17	100.0	55.133821	50.0	1351138.0	0.551338	Y
7	IC 410-531506/18	300.0	169.713086	50.0	1365045.0	0.56571	Y



10/04/2024

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

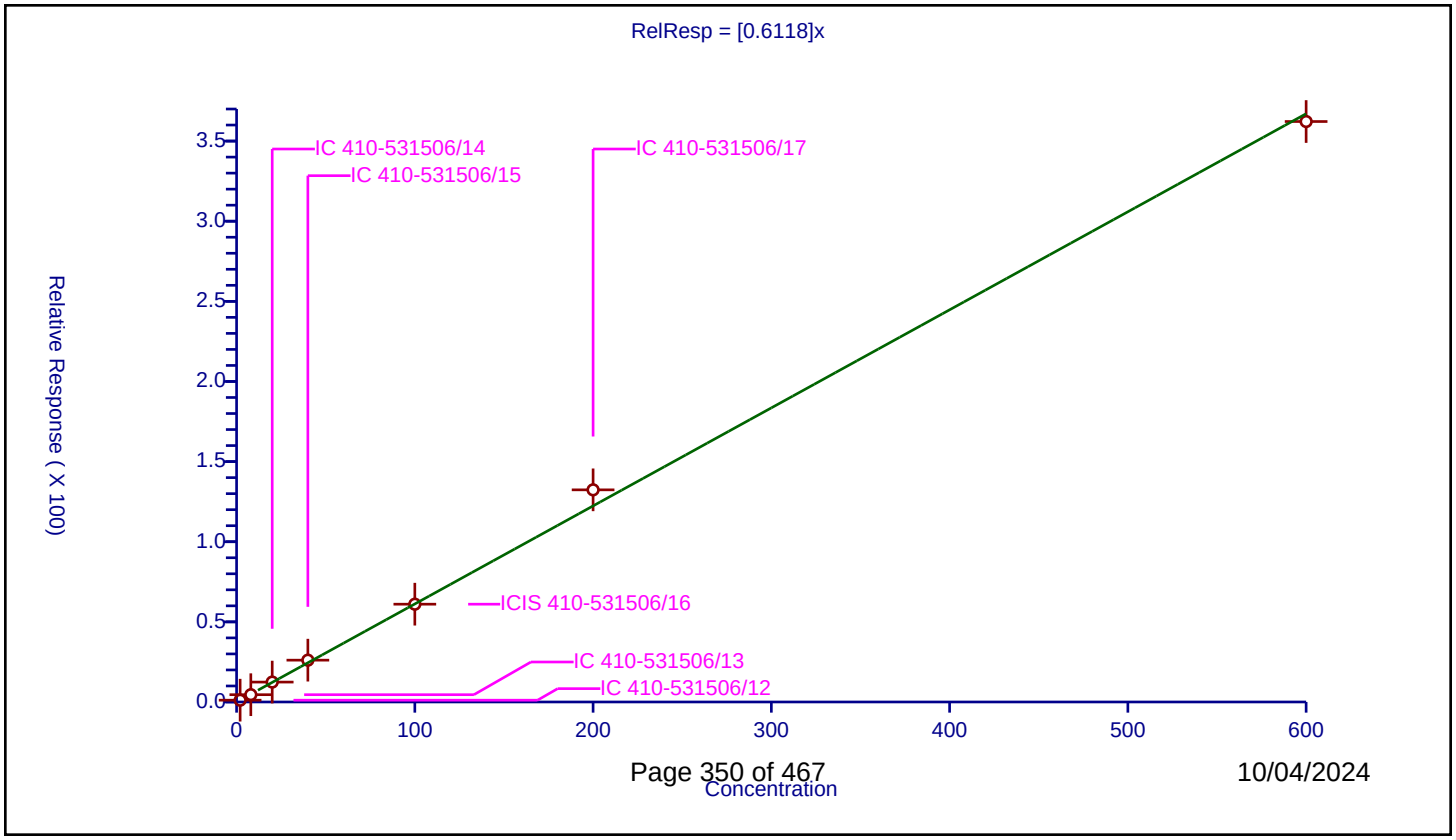
Curve Coefficients

Intercept:	0
Slope:	0.6118

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	2.0	1.129423	50.0	1349937.0	0.564712	Y
2	IC 410-531506/13	8.0	4.546258	50.0	1289742.0	0.568282	Y
3	IC 410-531506/14	20.0	12.423655	50.0	1319825.0	0.621183	Y
4	IC 410-531506/15	40.0	26.09106	50.0	1310606.0	0.652277	Y
5	ICIS 410-531506/16	100.0	61.025271	50.0	1347341.0	0.610253	Y
6	IC 410-531506/17	200.0	132.376338	50.0	1351138.0	0.661882	Y
7	IC 410-531506/18	600.0	362.201466	50.0	1365045.0	0.603669	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

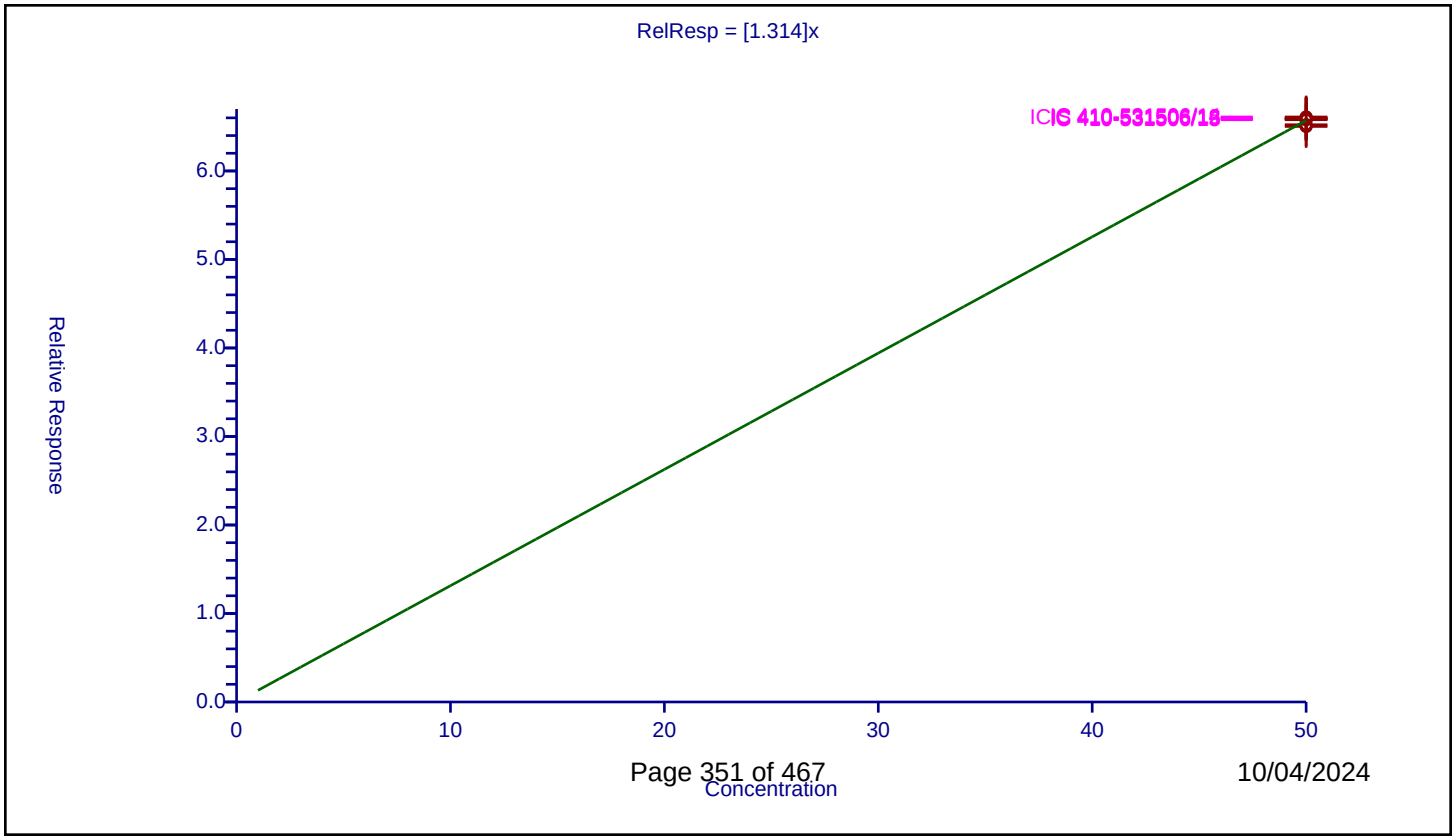
Curve Coefficients

Intercept:	0
Slope:	1.314

Error Coefficients

Relative Standard Deviation:	0.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	50.0	65.916057	50.0	960153.0	1.318321	Y
2	IC 410-531506/13	50.0	65.879517	50.0	918970.0	1.31759	Y
3	IC 410-531506/14	50.0	66.098768	50.0	943243.0	1.321975	Y
4	IC 410-531506/15	50.0	65.787811	50.0	950952.0	1.315756	Y
5	ICIS 410-531506/16	50.0	65.953582	50.0	981206.0	1.319072	Y
6	IC 410-531506/17	50.0	65.22123	50.0	992111.0	1.304425	Y
7	IC 410-531506/18	50.0	65.02956	50.0	1033164.0	1.300591	Y



10/04/2024

Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

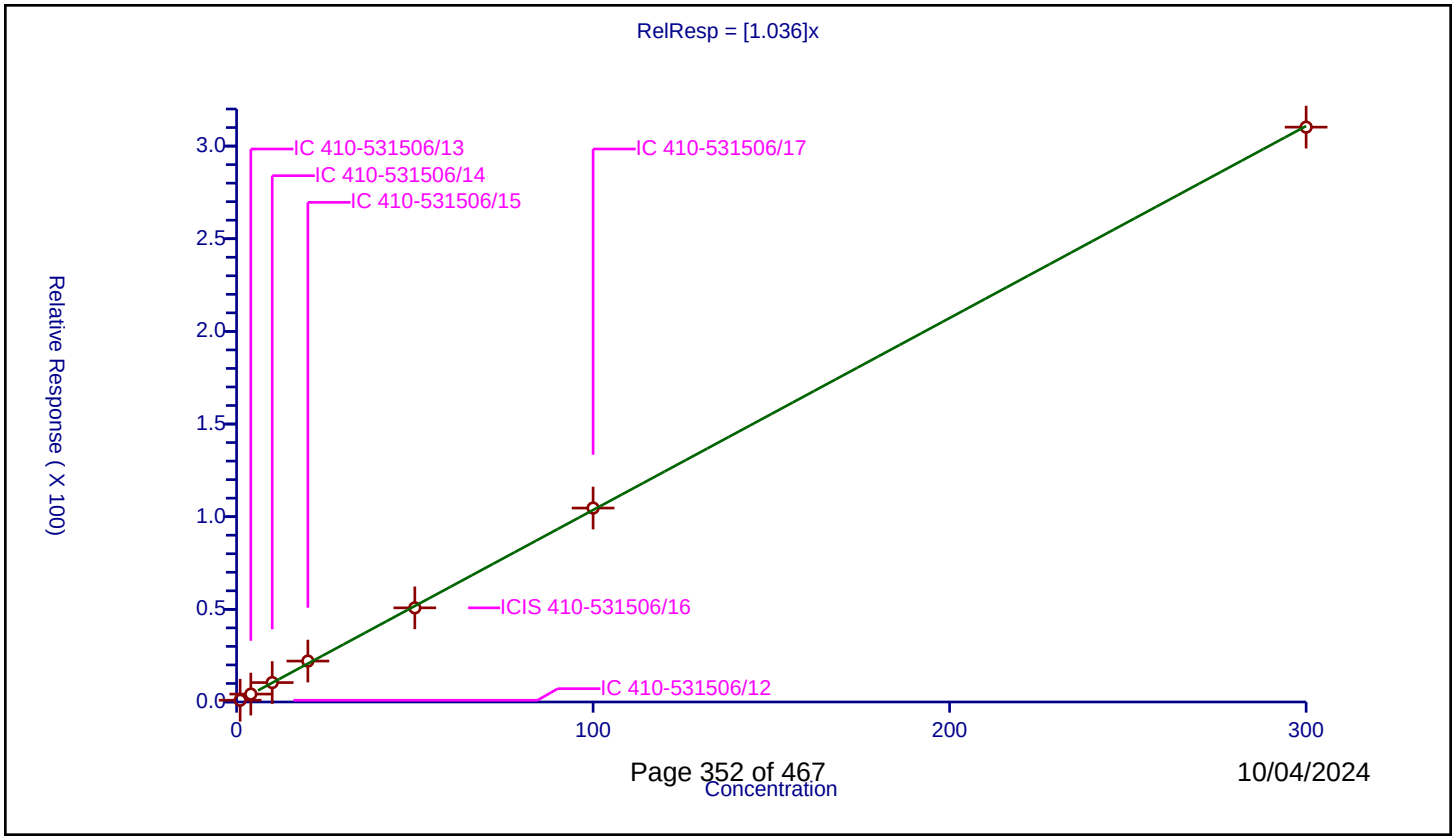
Curve Coefficients

Intercept:	0
Slope:	1.036

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.938288	50.0	960153.0	0.938288	Y
2	IC 410-531506/13	4.0	4.261456	50.0	918970.0	1.065364	Y
3	IC 410-531506/14	10.0	10.48171	50.0	943243.0	1.048171	Y
4	IC 410-531506/15	20.0	22.076035	50.0	950952.0	1.103802	Y
5	ICIS 410-531506/16	50.0	50.803246	50.0	981206.0	1.016065	Y
6	IC 410-531506/17	100.0	104.660567	50.0	992111.0	1.046606	Y
7	IC 410-531506/18	300.0	310.217449	50.0	1033164.0	1.034058	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

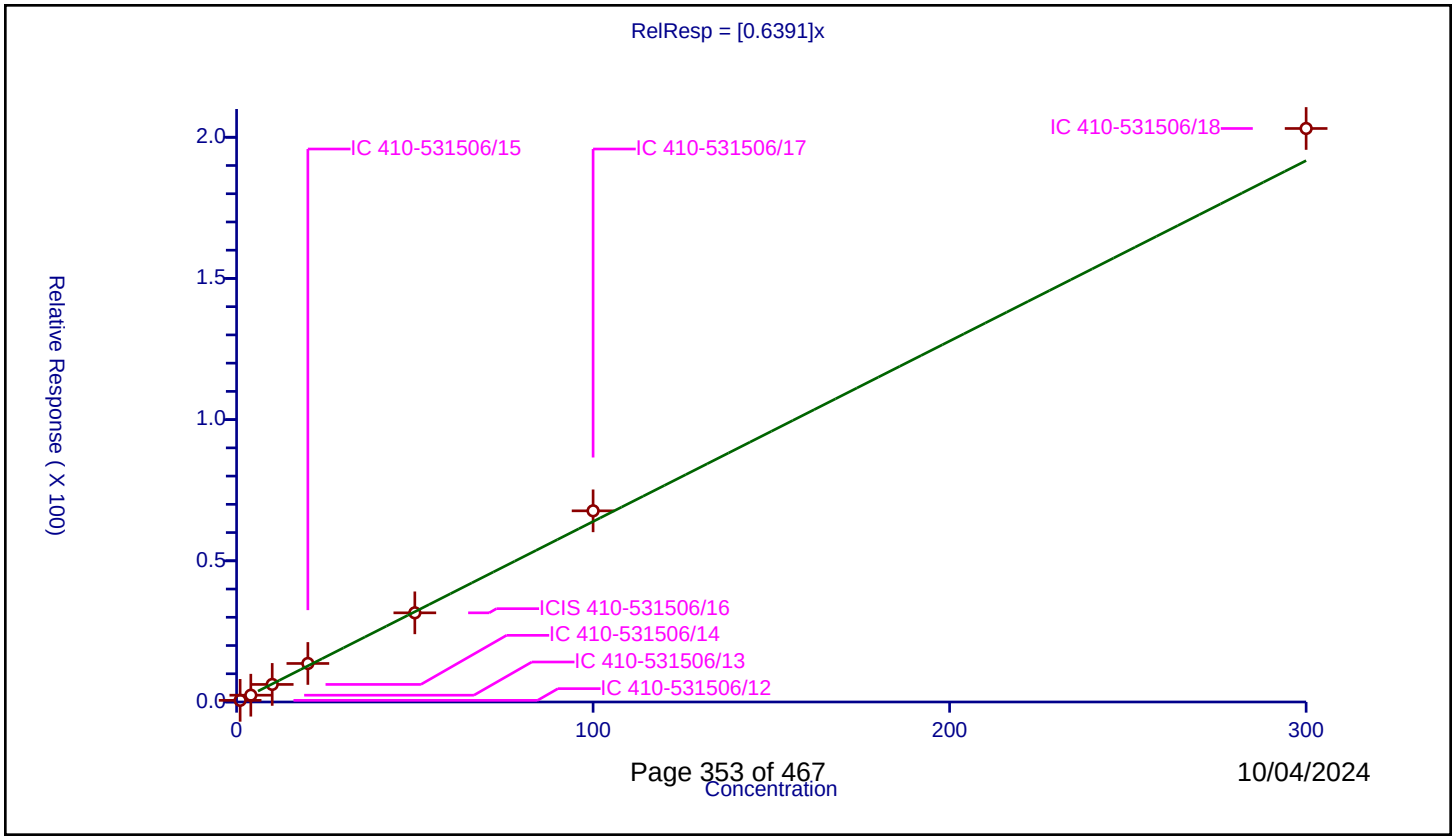
Curve Coefficients

Intercept:	0
Slope:	0.6391

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.583709	50.0	960153.0	0.583709	Y
2	IC 410-531506/13	4.0	2.401384	50.0	918970.0	0.600346	Y
3	IC 410-531506/14	10.0	6.219288	50.0	943243.0	0.621929	Y
4	IC 410-531506/15	20.0	13.640489	50.0	950952.0	0.682024	Y
5	ICIS 410-531506/16	50.0	31.577263	50.0	981206.0	0.631545	Y
6	IC 410-531506/17	100.0	67.696558	50.0	992111.0	0.676966	Y
7	IC 410-531506/18	300.0	203.107687	50.0	1033164.0	0.677026	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

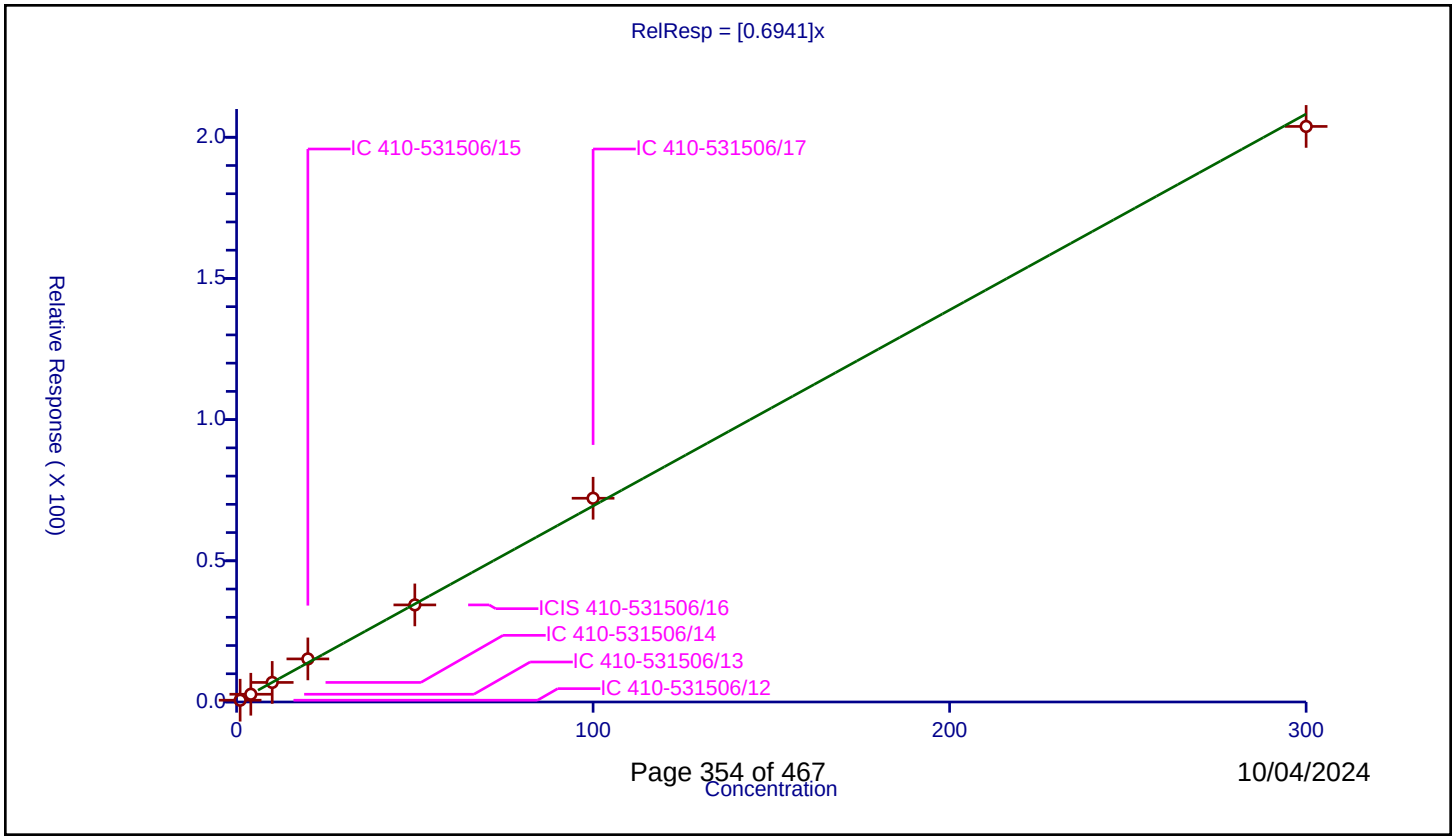
Curve Coefficients

Intercept:	0
Slope:	0.6941

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.630056	50.0	960153.0	0.630056	Y
2	IC 410-531506/13	4.0	2.739589	50.0	918970.0	0.684897	Y
3	IC 410-531506/14	10.0	6.926635	50.0	943243.0	0.692664	Y
4	IC 410-531506/15	20.0	15.254871	50.0	950952.0	0.762744	Y
5	ICIS 410-531506/16	50.0	34.38172	50.0	981206.0	0.687634	Y
6	IC 410-531506/17	100.0	72.15362	50.0	992111.0	0.721536	Y
7	IC 410-531506/18	300.0	203.828385	50.0	1033164.0	0.679428	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

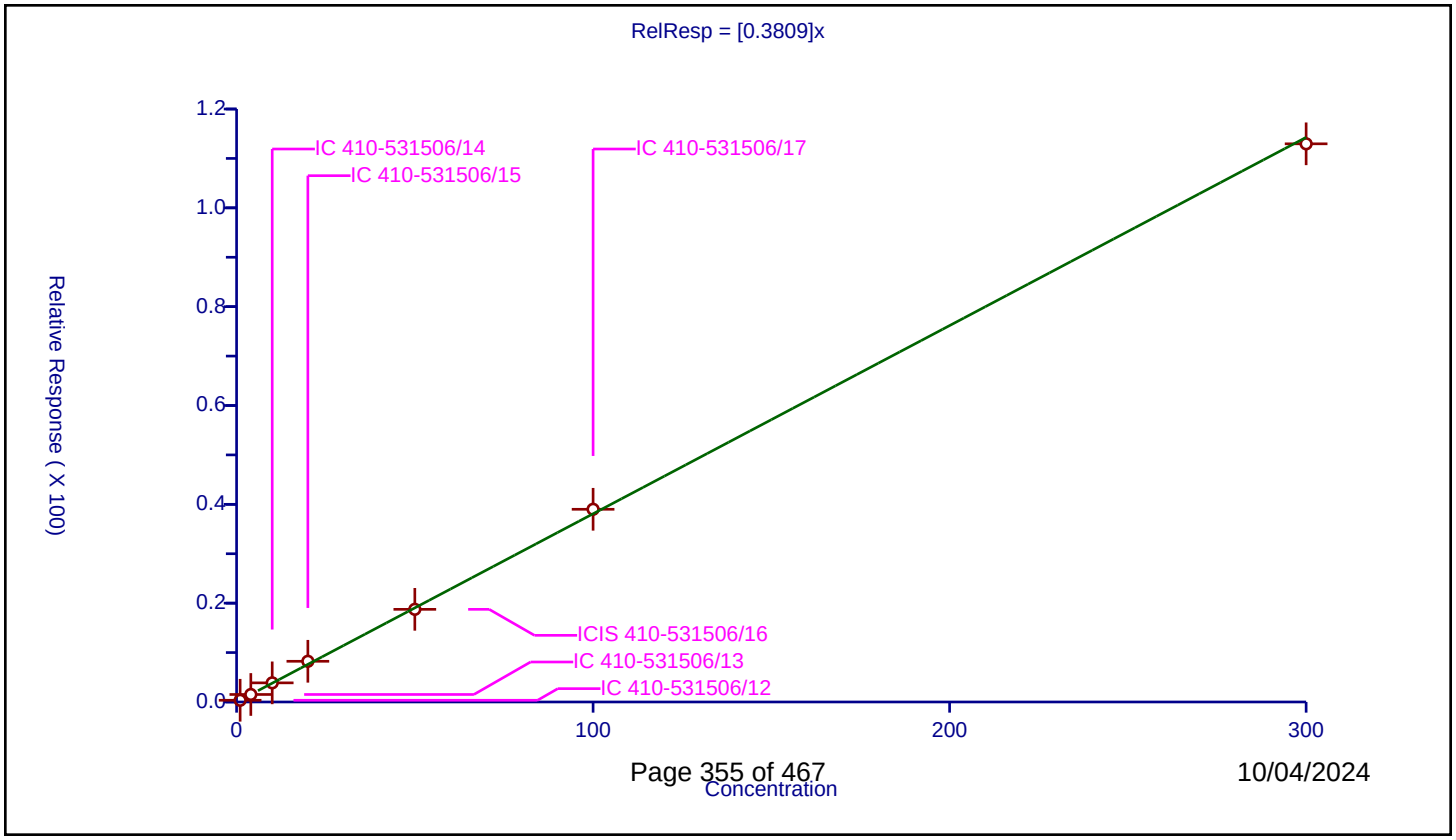
Curve Coefficients

Intercept:	0
Slope:	0.3809

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.346143	50.0	960153.0	0.346143	Y
2	IC 410-531506/13	4.0	1.516698	50.0	918970.0	0.379175	Y
3	IC 410-531506/14	10.0	3.873763	50.0	943243.0	0.387376	Y
4	IC 410-531506/15	20.0	8.239638	50.0	950952.0	0.411982	Y
5	ICIS 410-531506/16	50.0	18.747592	50.0	981206.0	0.374952	Y
6	IC 410-531506/17	100.0	38.997753	50.0	992111.0	0.389978	Y
7	IC 410-531506/18	300.0	112.960092	50.0	1033164.0	0.376534	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

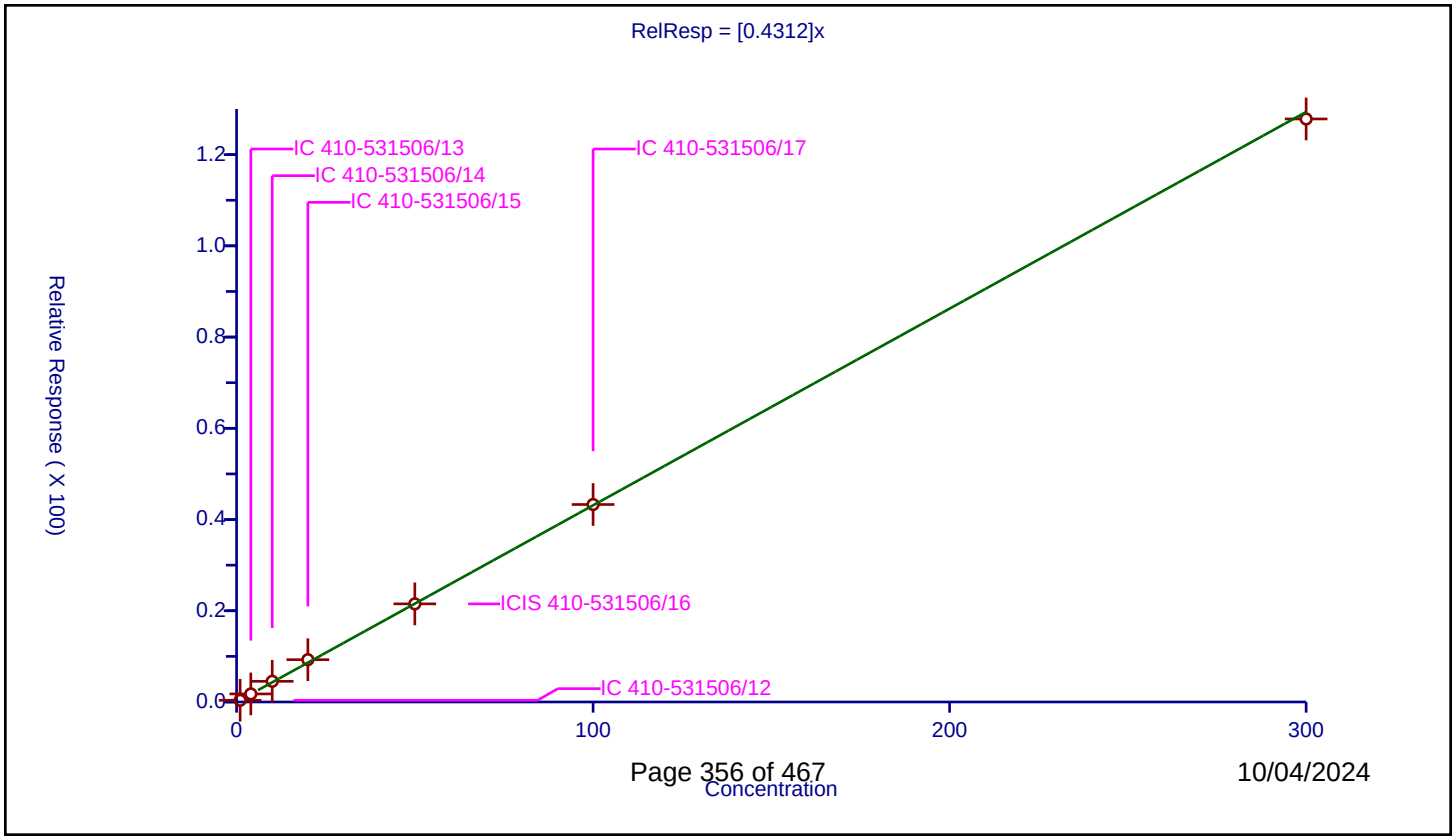
Curve Coefficients

Intercept:	0
Slope:	0.4312

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.369577	50.0	960153.0	0.369577	Y
2	IC 410-531506/13	4.0	1.769808	50.0	918970.0	0.442452	Y
3	IC 410-531506/14	10.0	4.531494	50.0	943243.0	0.453149	Y
4	IC 410-531506/15	20.0	9.27581	50.0	950952.0	0.46379	Y
5	ICIS 410-531506/16	50.0	21.508786	50.0	981206.0	0.430176	Y
6	IC 410-531506/17	100.0	43.293644	50.0	992111.0	0.432936	Y
7	IC 410-531506/18	300.0	127.820365	50.0	1033164.0	0.426068	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

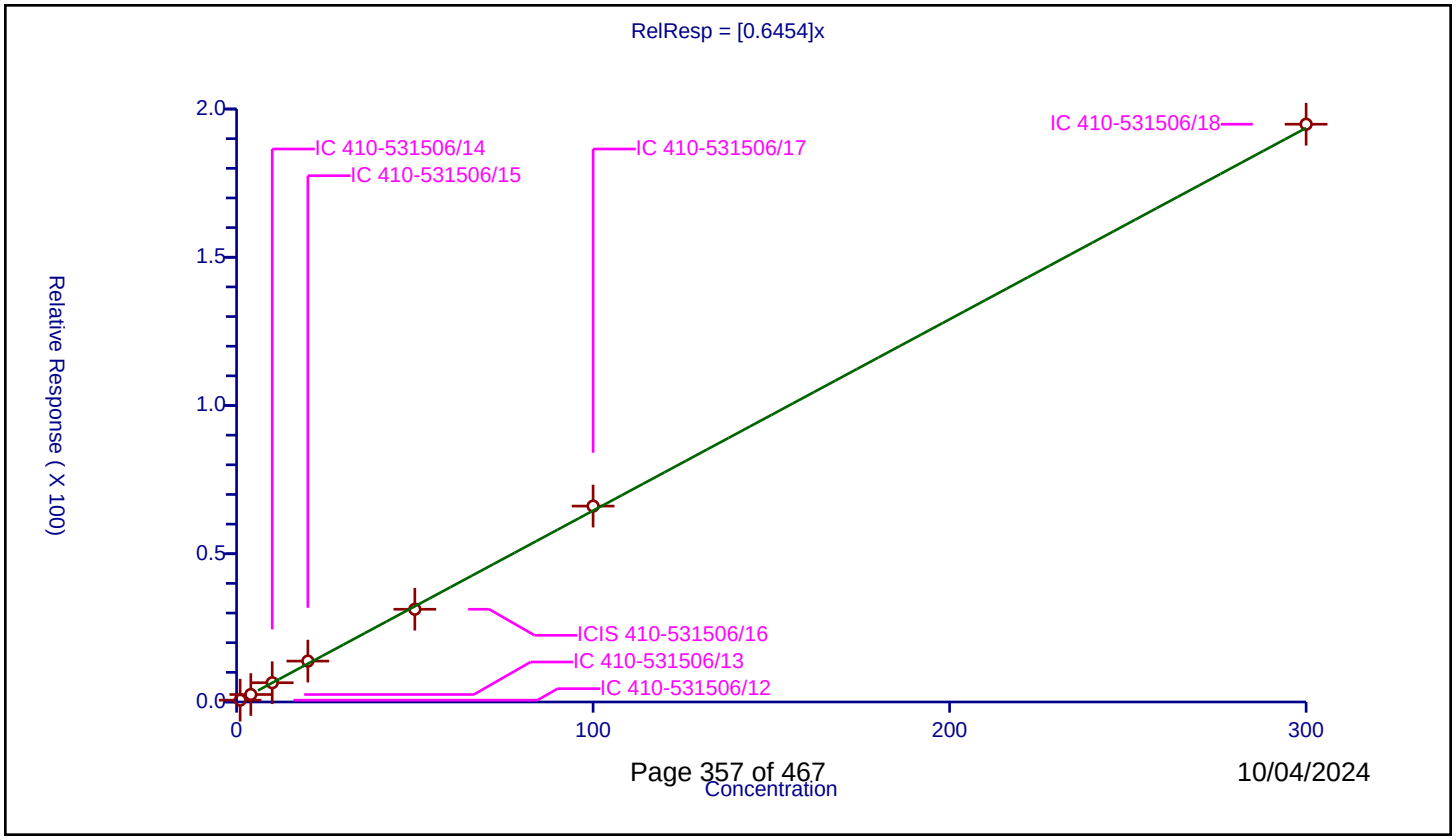
Curve Coefficients

Intercept:	0
Slope:	0.6454

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.61209	50.0	960153.0	0.61209	Y
2	IC 410-531506/13	4.0	2.520866	50.0	918970.0	0.630216	Y
3	IC 410-531506/14	10.0	6.496947	50.0	943243.0	0.649695	Y
4	IC 410-531506/15	20.0	13.793914	50.0	950952.0	0.689696	Y
5	ICIS 410-531506/16	50.0	31.277734	50.0	981206.0	0.625555	Y
6	IC 410-531506/17	100.0	66.07179	50.0	992111.0	0.660718	Y
7	IC 410-531506/18	300.0	194.871531	50.0	1033164.0	0.649572	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

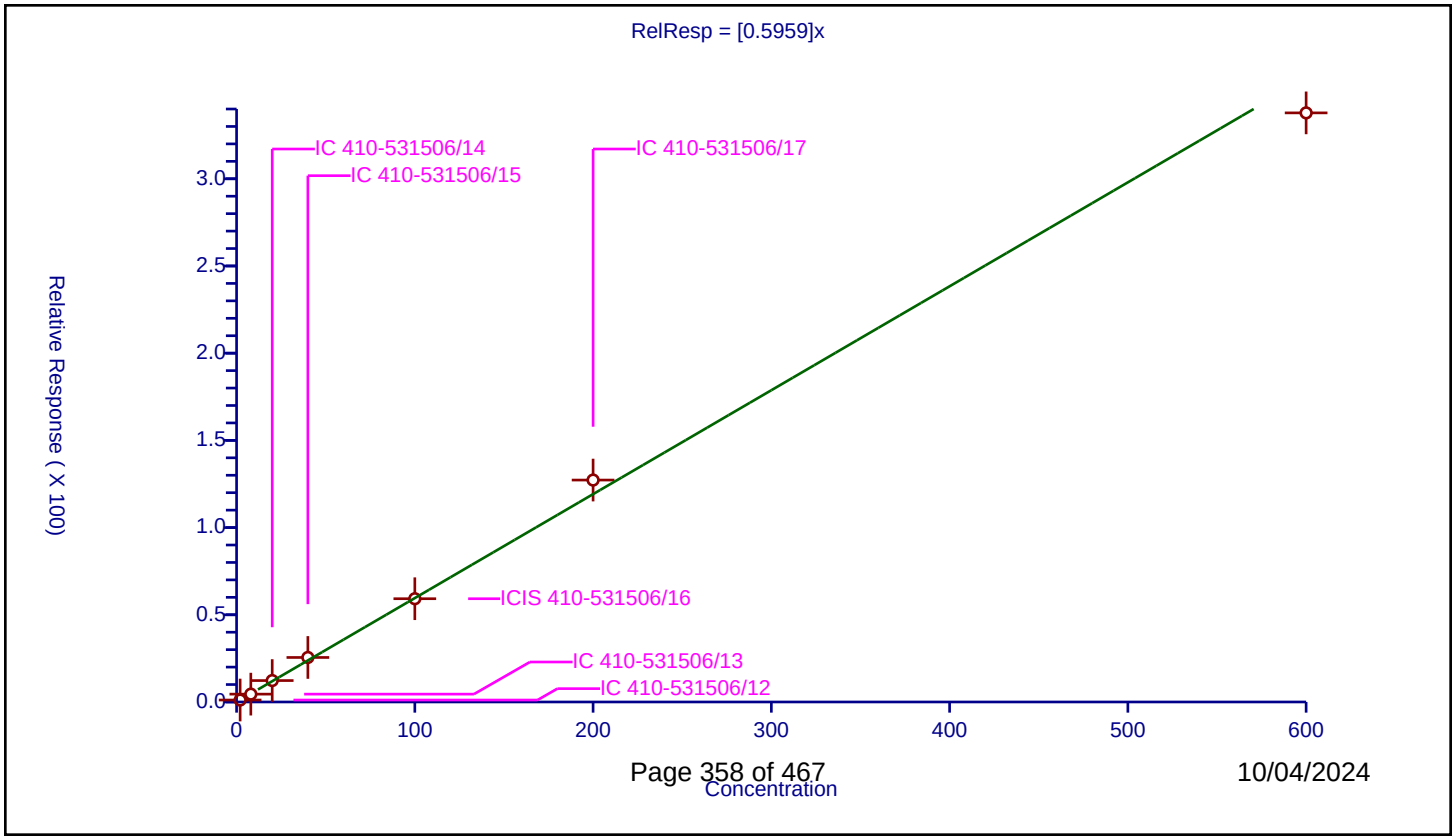
Curve Coefficients

Intercept:	0
Slope:	0.5959

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	2.0	1.128518	50.0	960153.0	0.564259	Y
2	IC 410-531506/13	8.0	4.503411	50.0	918970.0	0.562926	Y
3	IC 410-531506/14	20.0	12.288668	50.0	943243.0	0.614433	Y
4	IC 410-531506/15	40.0	25.529154	50.0	950952.0	0.638229	Y
5	ICIS 410-531506/16	100.0	59.215037	50.0	981206.0	0.59215	Y
6	IC 410-531506/17	200.0	127.251941	50.0	992111.0	0.63626	Y
7	IC 410-531506/18	600.0	337.787128	50.0	1033164.0	0.562979	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

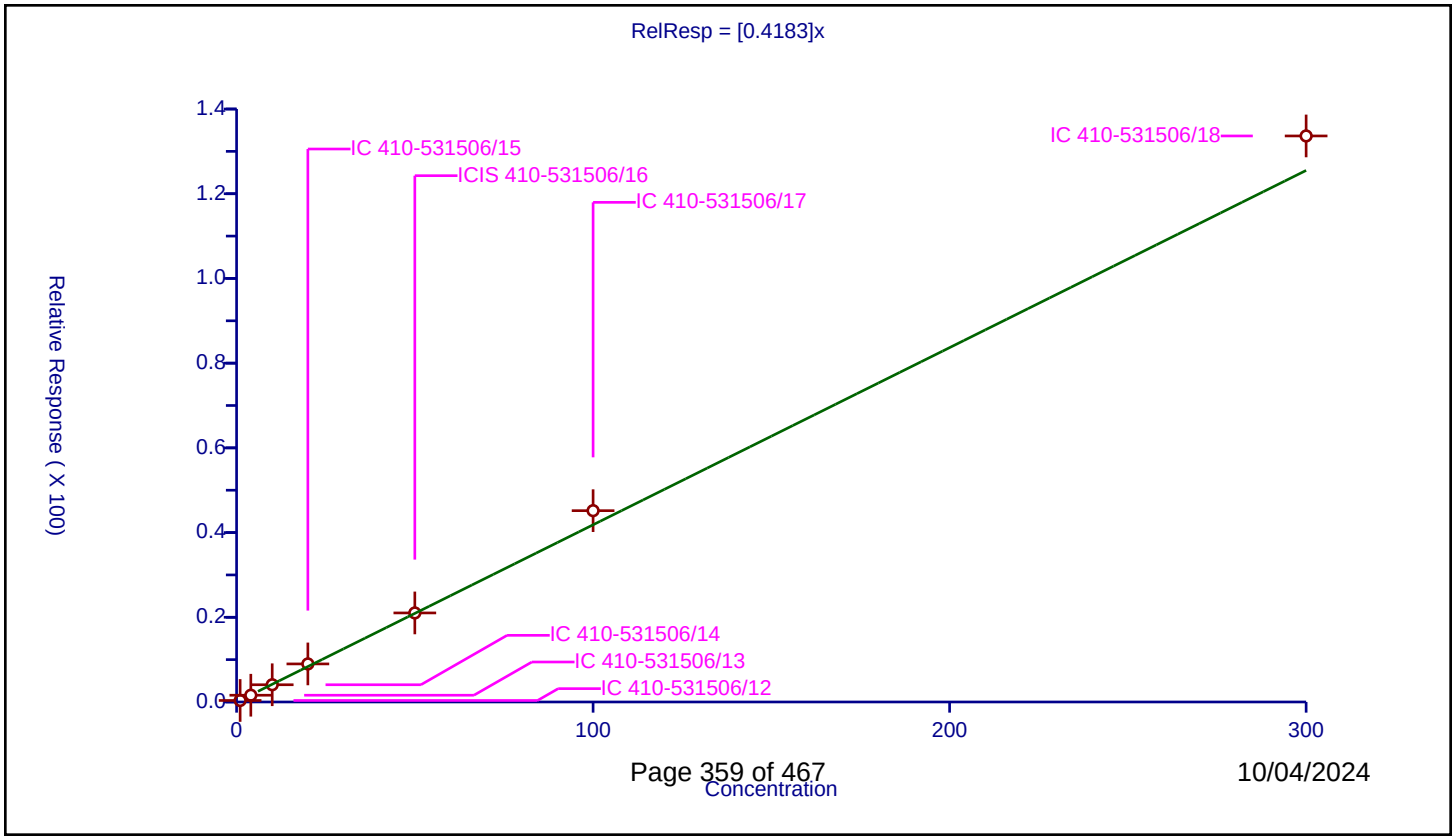
Curve Coefficients

Intercept:	0
Slope:	0.4183

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.355777	50.0	960153.0	0.355777	Y
2	IC 410-531506/13	4.0	1.593197	50.0	918970.0	0.398299	Y
3	IC 410-531506/14	10.0	4.072121	50.0	943243.0	0.407212	Y
4	IC 410-531506/15	20.0	8.987204	50.0	950952.0	0.44936	Y
5	ICIS 410-531506/16	50.0	21.022242	50.0	981206.0	0.420445	Y
6	IC 410-531506/17	100.0	45.172365	50.0	992111.0	0.451724	Y
7	IC 410-531506/18	300.0	133.641029	50.0	1033164.0	0.44547	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

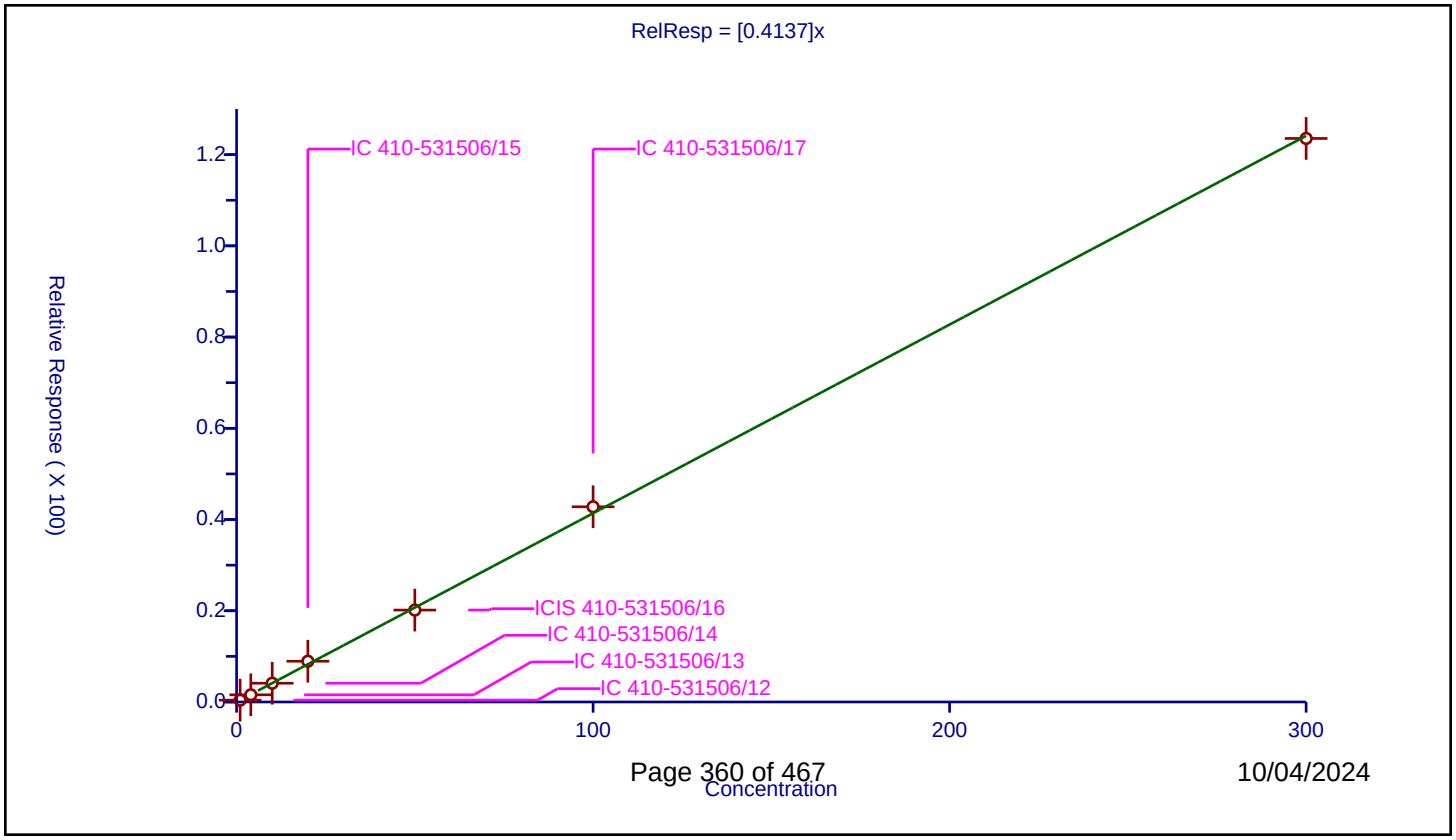
Curve Coefficients

Intercept:	0
Slope:	0.4137

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.401551	50.0	960153.0	0.401551	Y
2	IC 410-531506/13	4.0	1.573882	50.0	918970.0	0.39347	Y
3	IC 410-531506/14	10.0	4.114952	50.0	943243.0	0.411495	Y
4	IC 410-531506/15	20.0	8.934415	50.0	950952.0	0.446721	Y
5	ICIS 410-531506/16	50.0	20.149235	50.0	981206.0	0.402985	Y
6	IC 410-531506/17	100.0	42.794909	50.0	992111.0	0.427949	Y
7	IC 410-531506/18	300.0	123.544229	50.0	1033164.0	0.411814	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

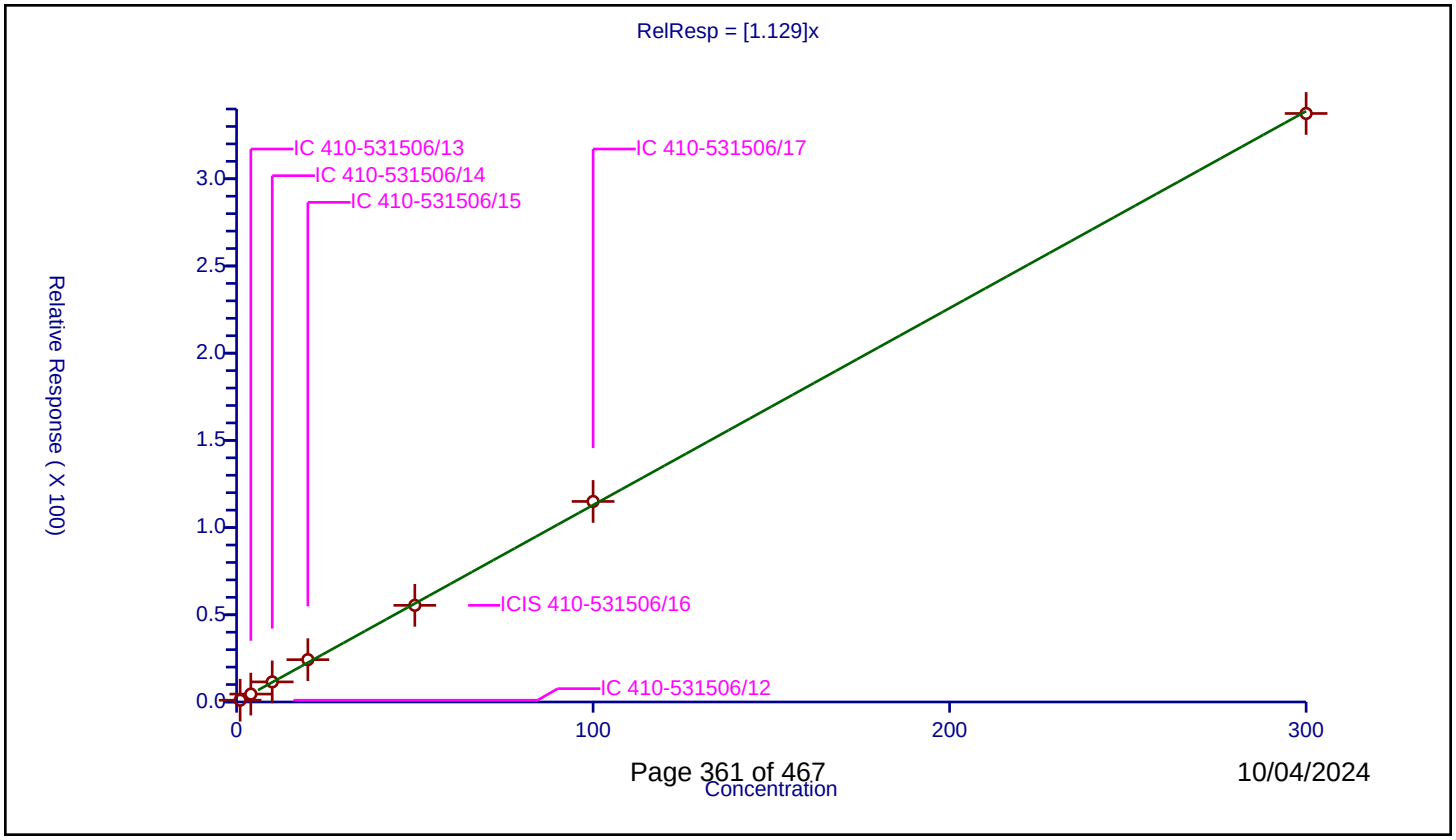
Curve Coefficients

Intercept:	0
Slope:	1.129

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	1.022389	50.0	960153.0	1.022389	Y
2	IC 410-531506/13	4.0	4.532085	50.0	918970.0	1.133021	Y
3	IC 410-531506/14	10.0	11.518347	50.0	943243.0	1.151835	Y
4	IC 410-531506/15	20.0	24.276988	50.0	950952.0	1.213849	Y
5	ICIS 410-531506/16	50.0	55.415835	50.0	981206.0	1.108317	Y
6	IC 410-531506/17	100.0	114.982799	50.0	992111.0	1.149828	Y
7	IC 410-531506/18	300.0	337.444007	50.0	1033164.0	1.124813	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

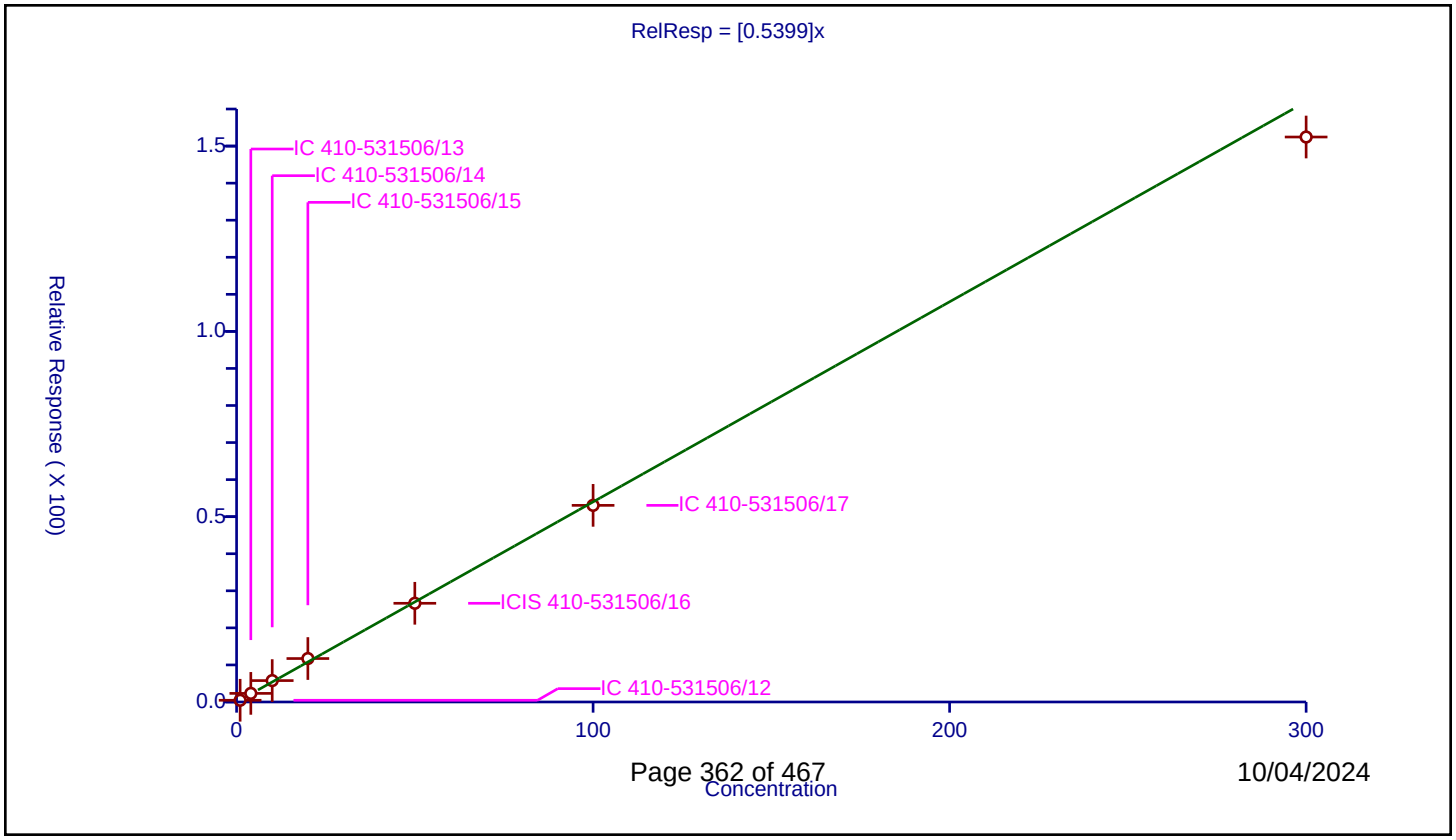
Curve Coefficients

Intercept:	0
Slope:	0.5399

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.464249	50.0	960153.0	0.464249	Y
2	IC 410-531506/13	4.0	2.321458	50.0	918970.0	0.580364	Y
3	IC 410-531506/14	10.0	5.772479	50.0	943243.0	0.577248	Y
4	IC 410-531506/15	20.0	11.722358	50.0	950952.0	0.586118	Y
5	ICIS 410-531506/16	50.0	26.634978	50.0	981206.0	0.5327	Y
6	IC 410-531506/17	100.0	53.056462	50.0	992111.0	0.530565	Y
7	IC 410-531506/18	300.0	152.441868	50.0	1033164.0	0.50814	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

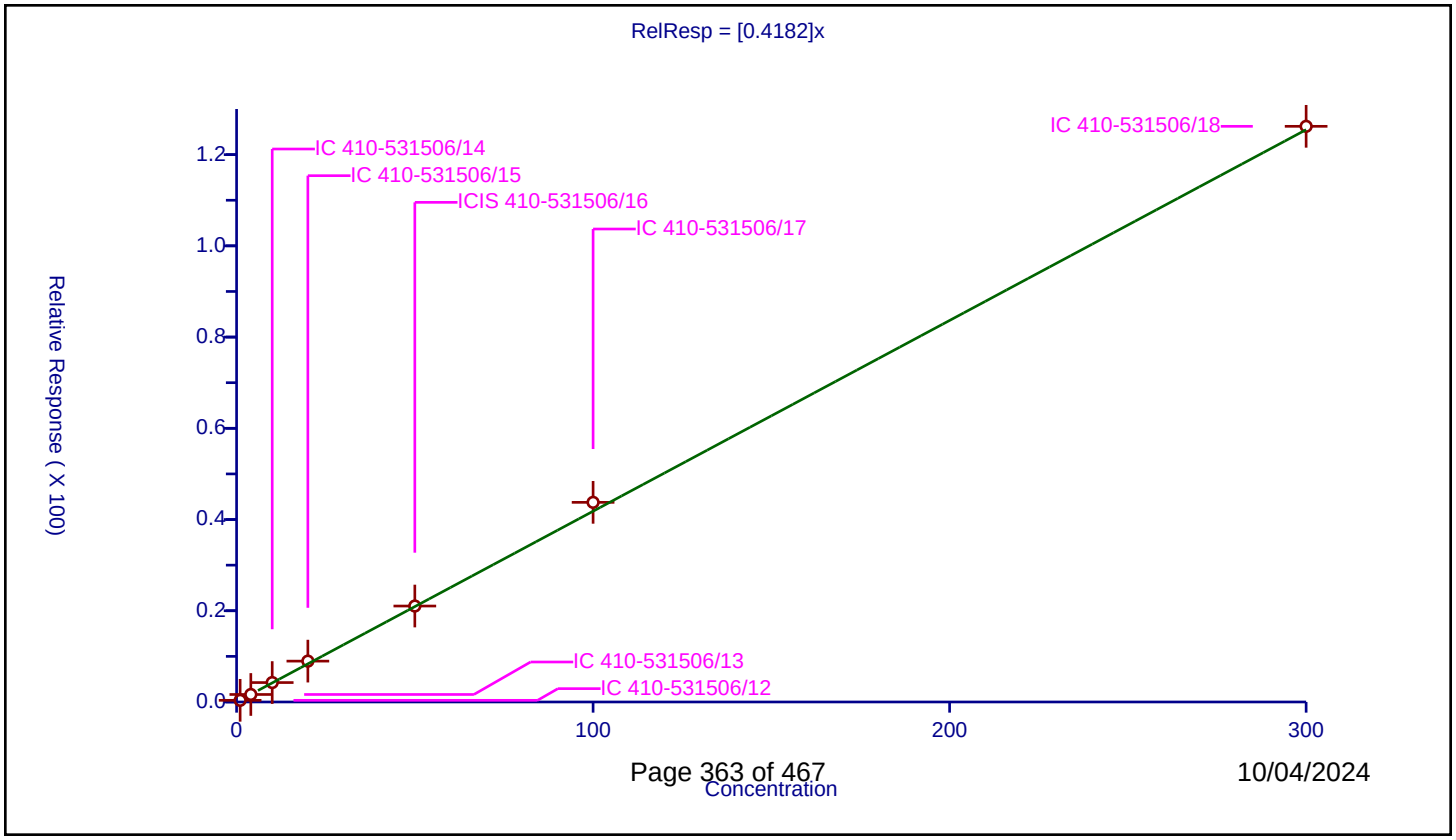
Curve Coefficients

Intercept:	0
Slope:	0.4182

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.363796	50.0	960153.0	0.363796	Y
2	IC 410-531506/13	4.0	1.642818	50.0	918970.0	0.410704	Y
3	IC 410-531506/14	10.0	4.259401	50.0	943243.0	0.42594	Y
4	IC 410-531506/15	20.0	8.960074	50.0	950952.0	0.448004	Y
5	ICIS 410-531506/16	50.0	21.038345	50.0	981206.0	0.420767	Y
6	IC 410-531506/17	100.0	43.767734	50.0	992111.0	0.437677	Y
7	IC 410-531506/18	300.0	126.203294	50.0	1033164.0	0.420678	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

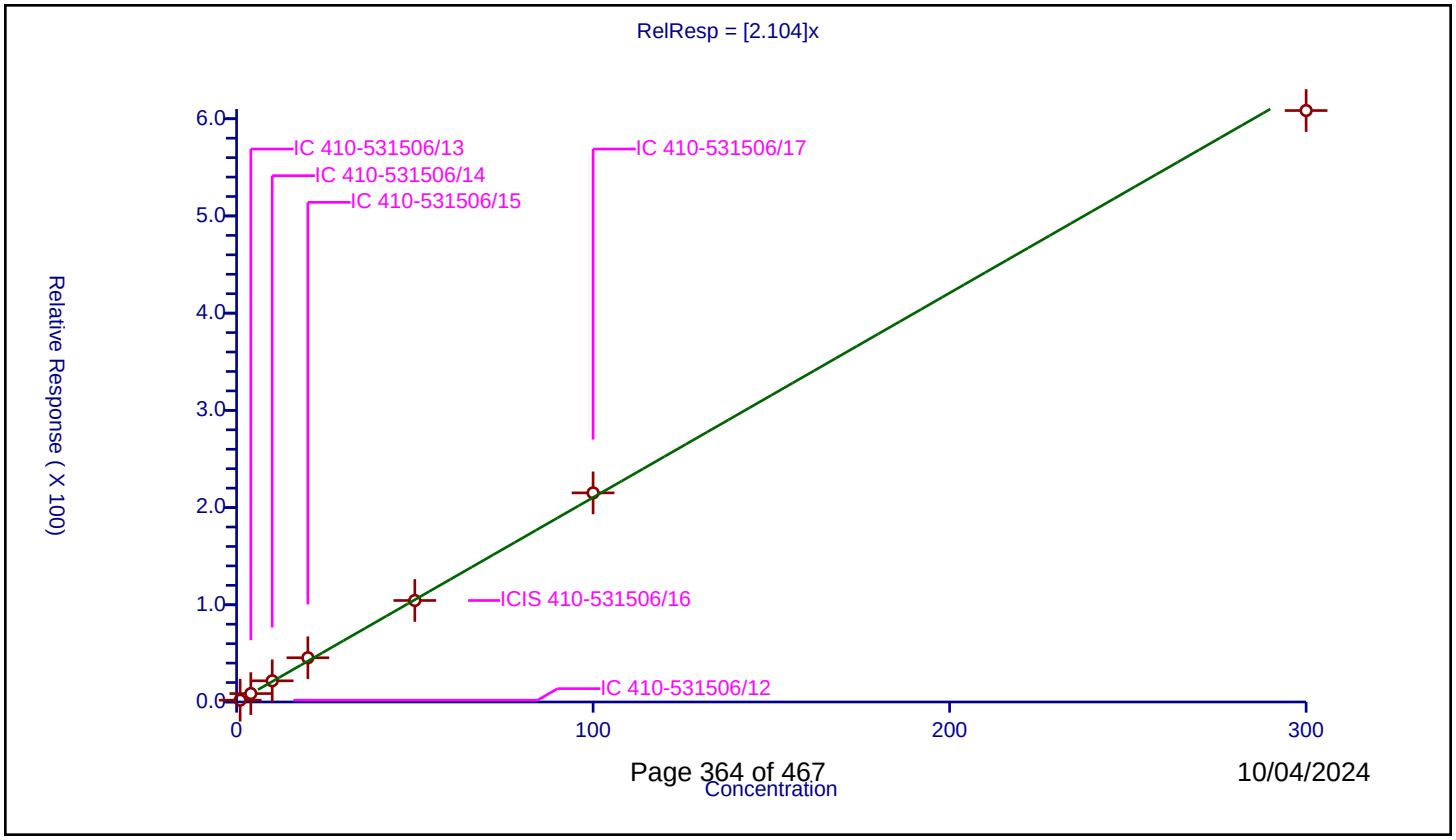
Curve Coefficients

Intercept:	0
Slope:	2.104

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	1.841373	50.0	960153.0	1.841373	Y
2	IC 410-531506/13	4.0	8.656267	50.0	918970.0	2.164067	Y
3	IC 410-531506/14	10.0	21.7885	50.0	943243.0	2.17885	Y
4	IC 410-531506/15	20.0	45.485892	50.0	950952.0	2.274295	Y
5	ICIS 410-531506/16	50.0	104.409064	50.0	981206.0	2.088181	Y
6	IC 410-531506/17	100.0	215.10461	50.0	992111.0	2.151046	Y
7	IC 410-531506/18	300.0	608.432979	50.0	1033164.0	2.02811	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

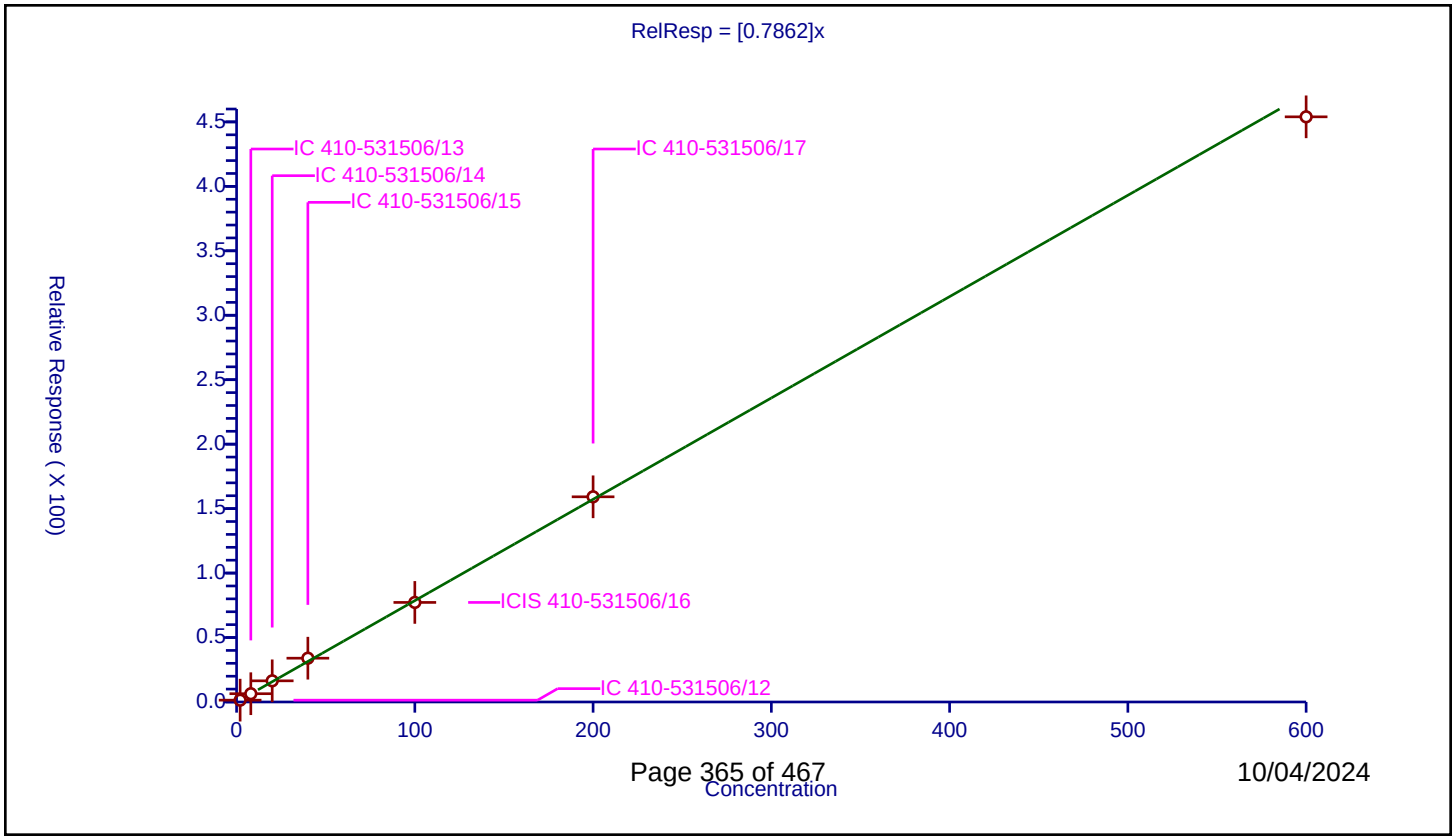
Curve Coefficients

Intercept:	0
Slope:	0.7862

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	2.0	1.410661	50.0	960153.0	0.70533	Y
2	IC 410-531506/13	8.0	6.422571	50.0	918970.0	0.802821	Y
3	IC 410-531506/14	20.0	16.416607	50.0	943243.0	0.82083	Y
4	IC 410-531506/15	40.0	33.982788	50.0	950952.0	0.84957	Y
5	ICIS 410-531506/16	100.0	77.2241	50.0	981206.0	0.772241	Y
6	IC 410-531506/17	200.0	159.171454	50.0	992111.0	0.795857	Y
7	IC 410-531506/18	600.0	453.936645	50.0	1033164.0	0.756561	Y



Calibration / n-Butyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

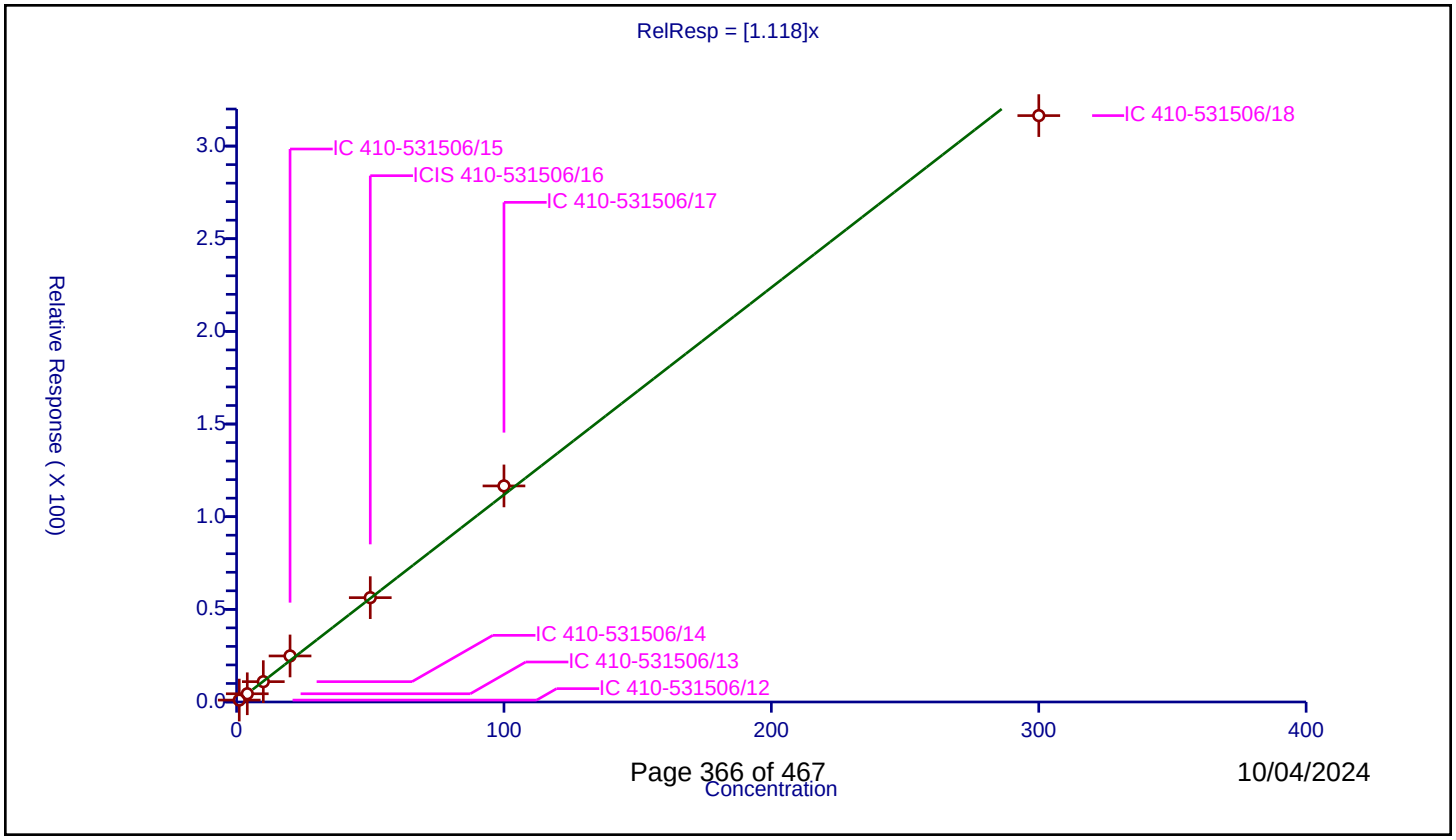
Curve Coefficients

Intercept:	0
Slope:	1.118

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.000071	1.031867	50.0	960153.0	1.031793	Y
2	IC 410-531506/13	4.000285	4.441875	50.0	918970.0	1.11039	Y
3	IC 410-531506/14	10.000712	10.970185	50.0	943243.0	1.09694	Y
4	IC 410-531506/15	20.001424	24.850045	50.0	950952.0	1.242414	Y
5	ICIS 410-531506/16	50.00356	56.308818	50.0	981206.0	1.126096	Y
6	IC 410-531506/17	100.00712	116.602376	50.0	992111.0	1.165941	Y
7	IC 410-531506/18	300.02136	316.447728	50.0	1033164.0	1.054751	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

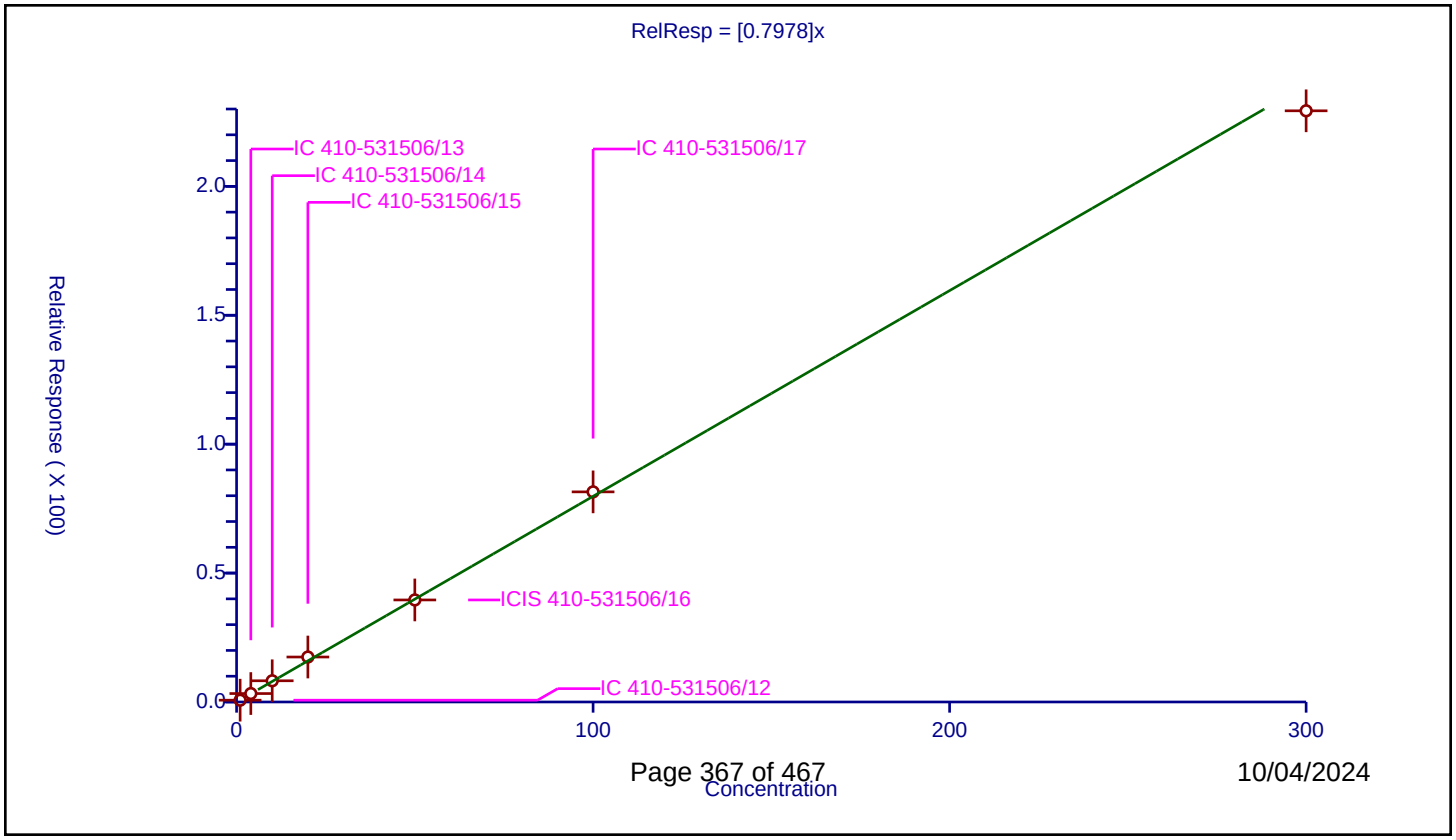
Curve Coefficients

Intercept:	0
Slope:	0.7978

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.700357	50.0	960153.0	0.700357	Y
2	IC 410-531506/13	4.0	3.273665	50.0	918970.0	0.818416	Y
3	IC 410-531506/14	10.0	8.226936	50.0	943243.0	0.822694	Y
4	IC 410-531506/15	20.0	17.442836	50.0	950952.0	0.872142	Y
5	ICIS 410-531506/16	50.0	39.583278	50.0	981206.0	0.791666	Y
6	IC 410-531506/17	100.0	81.505446	50.0	992111.0	0.815054	Y
7	IC 410-531506/18	300.0	229.302221	50.0	1033164.0	0.764341	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

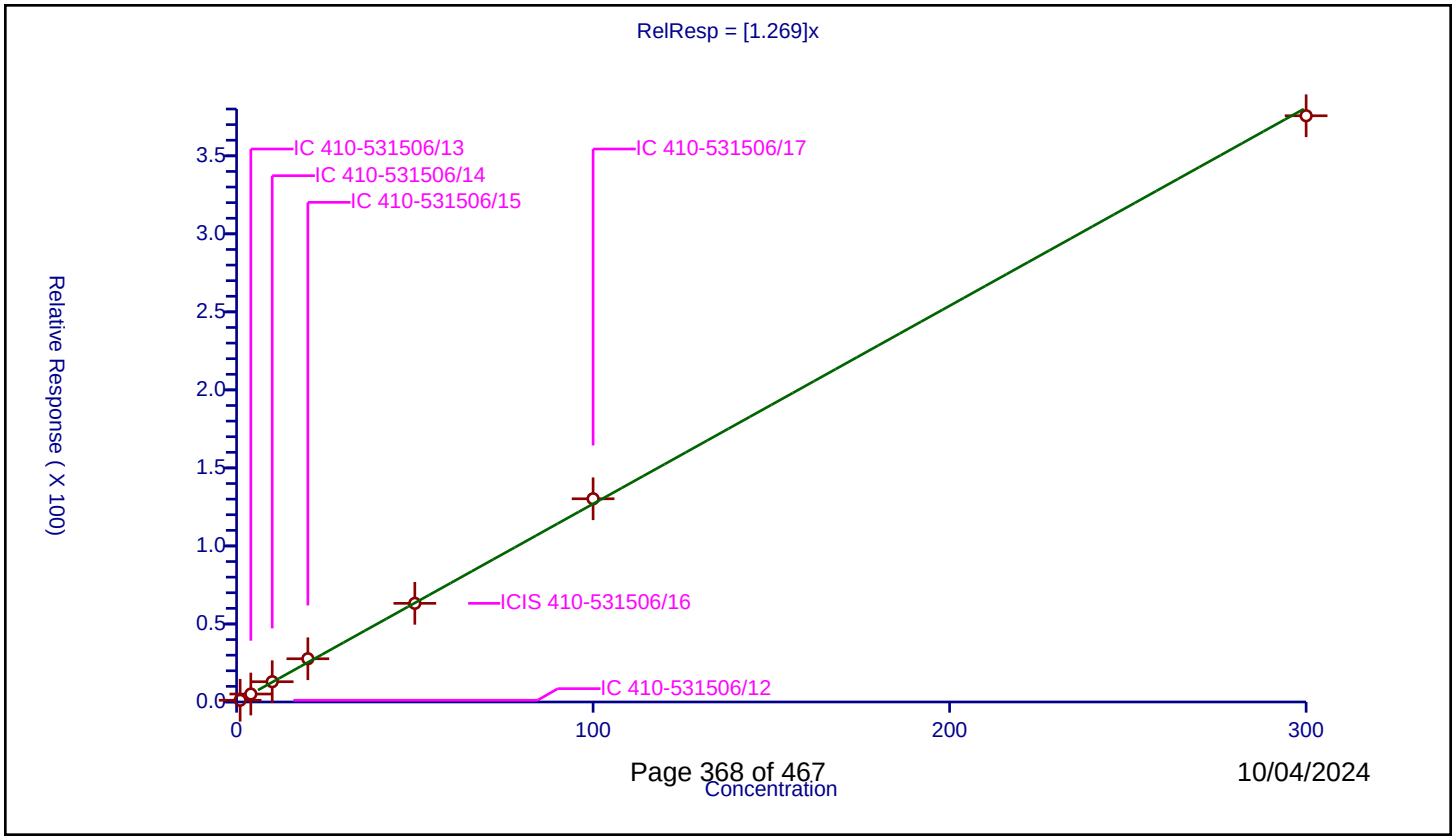
Curve Coefficients

Intercept:	0
Slope:	1.269

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	1.104668	50.0	960153.0	1.104668	Y
2	IC 410-531506/13	4.0	5.105934	50.0	918970.0	1.276483	Y
3	IC 410-531506/14	10.0	13.003065	50.0	943243.0	1.300306	Y
4	IC 410-531506/15	20.0	27.708286	50.0	950952.0	1.385414	Y
5	ICIS 410-531506/16	50.0	63.215573	50.0	981206.0	1.264311	Y
6	IC 410-531506/17	100.0	130.23452	50.0	992111.0	1.302345	Y
7	IC 410-531506/18	300.0	375.684499	50.0	1033164.0	1.252282	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

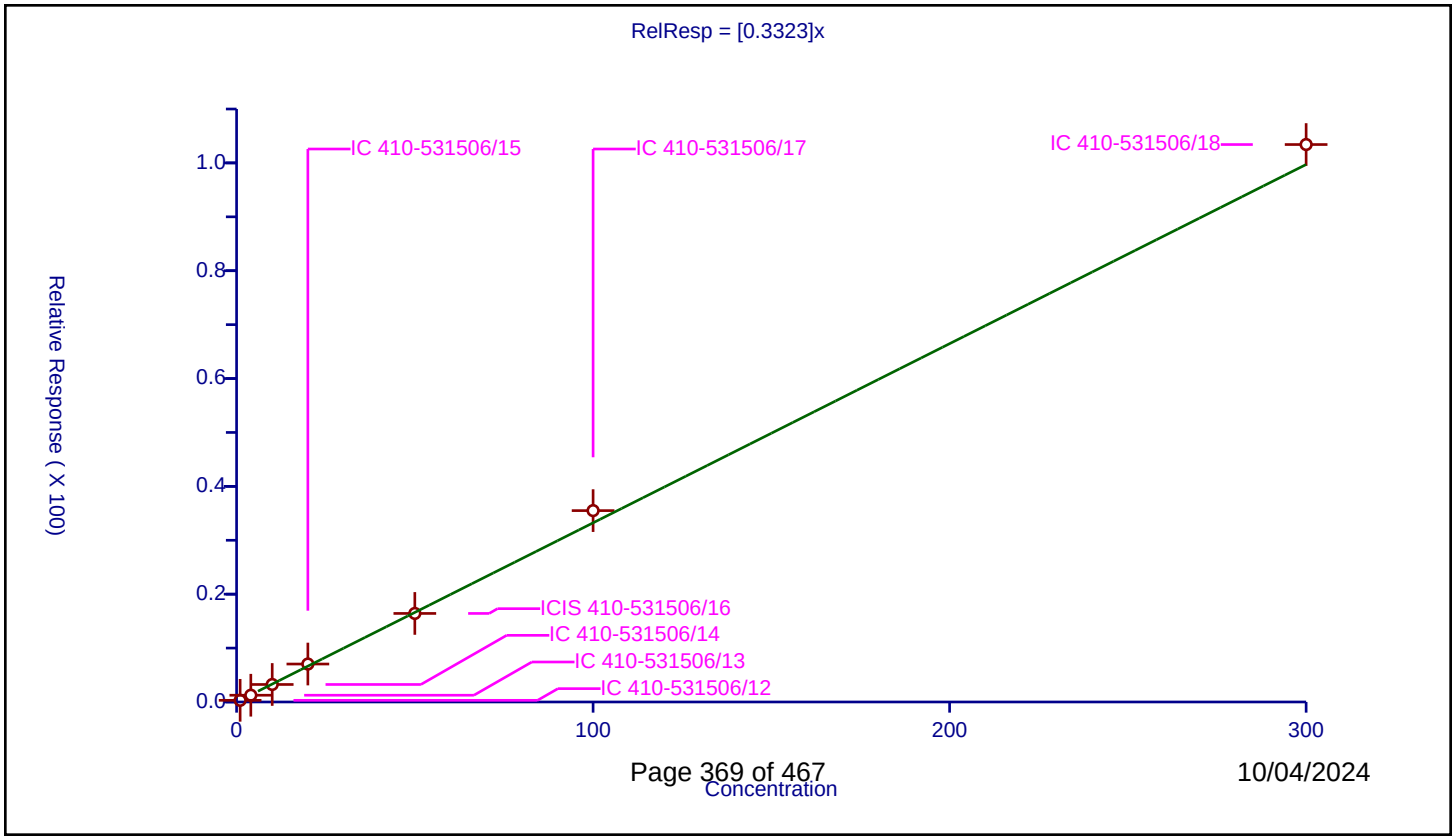
Curve Coefficients

Intercept:	0
Slope:	0.3323

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.307816	50.0	960153.0	0.307816	Y
2	IC 410-531506/13	4.0	1.25423	50.0	918970.0	0.313558	Y
3	IC 410-531506/14	10.0	3.246035	50.0	943243.0	0.324604	Y
4	IC 410-531506/15	20.0	7.043626	50.0	950952.0	0.352181	Y
5	ICIS 410-531506/16	50.0	16.42759	50.0	981206.0	0.328552	Y
6	IC 410-531506/17	100.0	35.502731	50.0	992111.0	0.355027	Y
7	IC 410-531506/18	300.0	103.411124	50.0	1033164.0	0.344704	Y



10/04/2024

Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

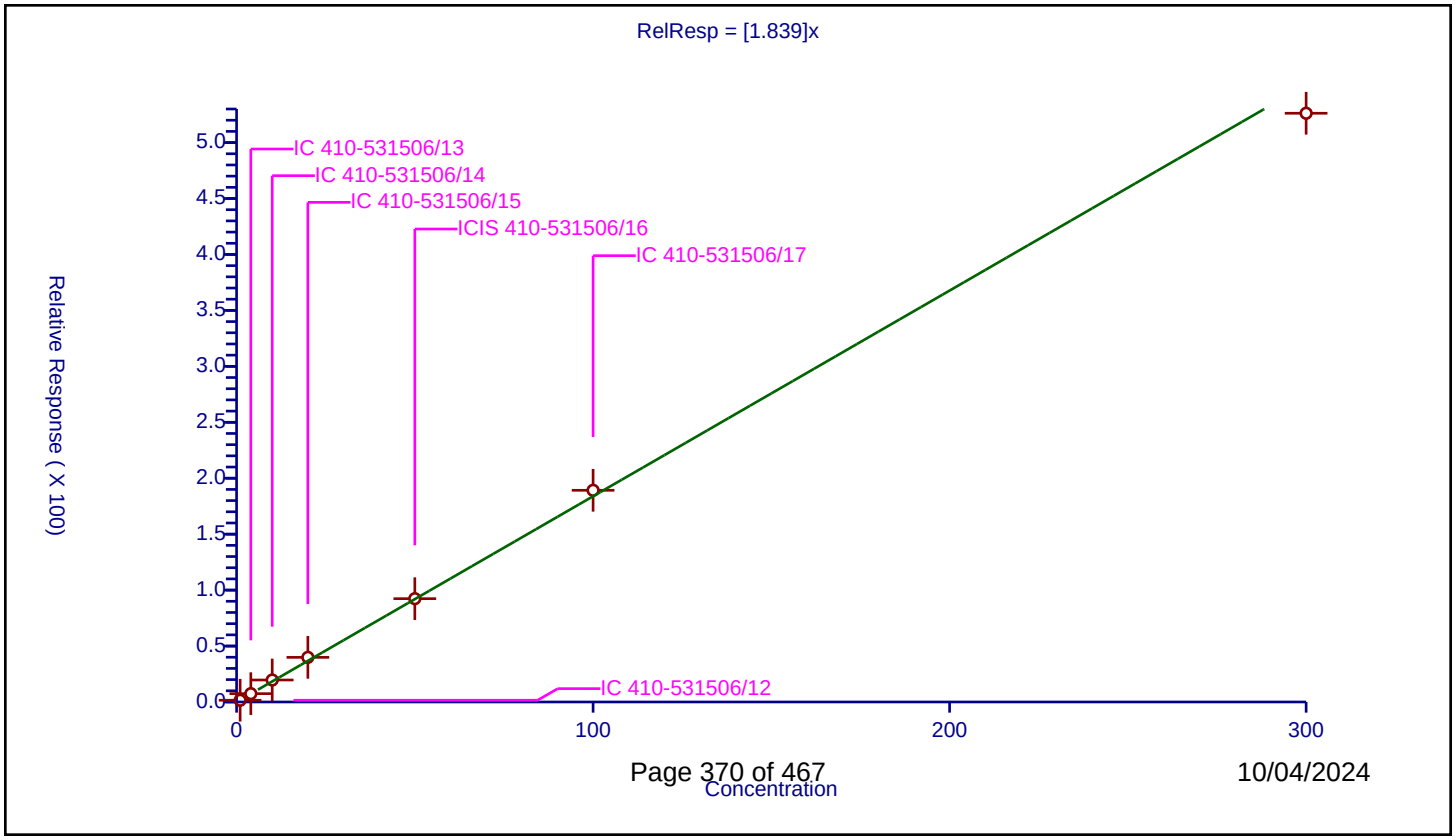
Curve Coefficients

Intercept:	0
Slope:	1.839

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	1.558293	50.0	960153.0	1.558293	Y
2	IC 410-531506/13	4.0	7.438763	50.0	918970.0	1.859691	Y
3	IC 410-531506/14	10.0	19.6434	50.0	943243.0	1.96434	Y
4	IC 410-531506/15	20.0	39.893601	50.0	950952.0	1.99468	Y
5	ICIS 410-531506/16	50.0	92.34916	50.0	981206.0	1.846983	Y
6	IC 410-531506/17	100.0	189.222879	50.0	992111.0	1.892229	Y
7	IC 410-531506/18	300.0	526.220377	50.0	1033164.0	1.754068	Y



Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

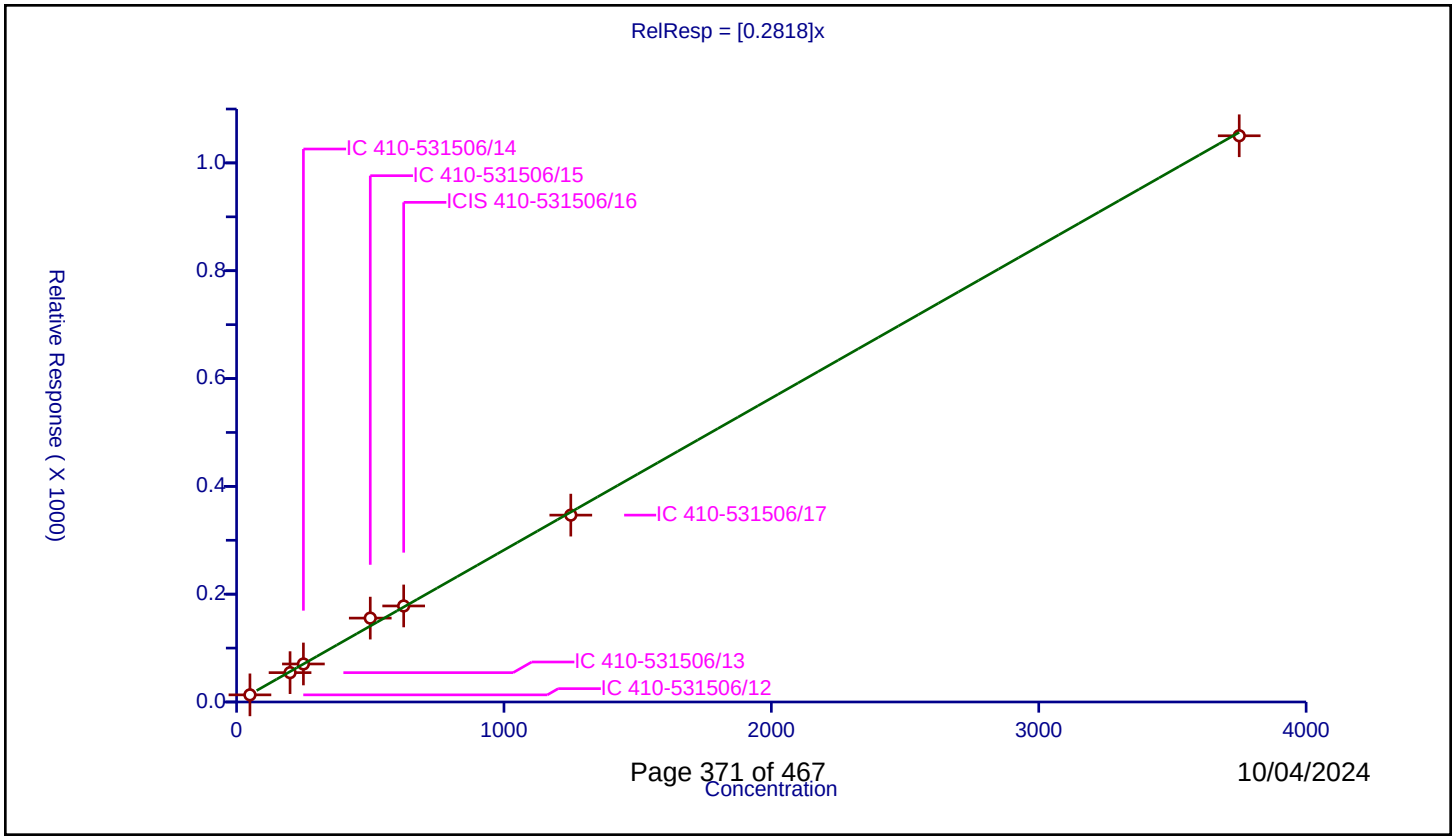
Curve Coefficients

Intercept:	0
Slope:	0.2818

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	50.003184	13.233919	250.0	468512.0	0.264662	Y
2	IC 410-531506/13	199.992688	54.432724	250.0	466034.0	0.272174	Y
3	IC 410-531506/14	249.99086	70.51334	250.0	493903.0	0.282064	Y
4	IC 410-531506/15	499.98172	155.617303	250.0	469567.0	0.311246	Y
5	ICIS 410-531506/16	624.97715	178.134815	250.0	479829.0	0.285026	Y
6	IC 410-531506/17	1249.9543	346.67072	250.0	532007.0	0.277347	Y
7	IC 410-531506/18	3749.8629	1050.377969	250.0	439190.0	0.280111	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

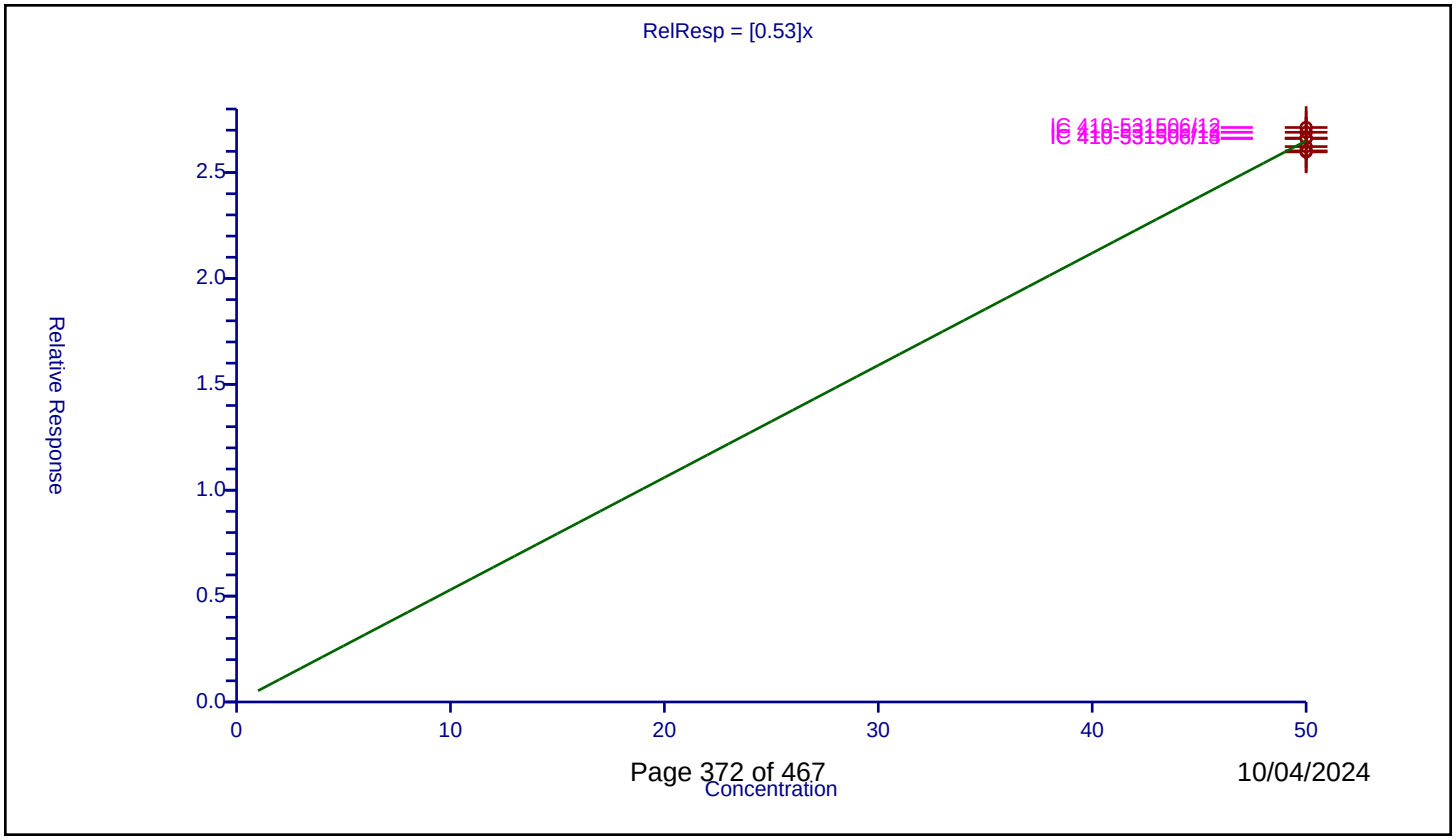
Curve Coefficients

Intercept:	0
Slope:	0.53

Error Coefficients

Relative Standard Deviation:	1.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	50.0	27.127916	50.0	960153.0	0.542558	Y
2	IC 410-531506/13	50.0	26.900987	50.0	918970.0	0.53802	Y
3	IC 410-531506/14	50.0	26.607301	50.0	943243.0	0.532146	Y
4	IC 410-531506/15	50.0	26.628841	50.0	950952.0	0.532577	Y
5	ICIS 410-531506/16	50.0	26.225482	50.0	981206.0	0.52451	Y
6	IC 410-531506/17	50.0	26.020123	50.0	992111.0	0.520402	Y
7	IC 410-531506/18	50.0	25.975111	50.0	1033164.0	0.519502	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

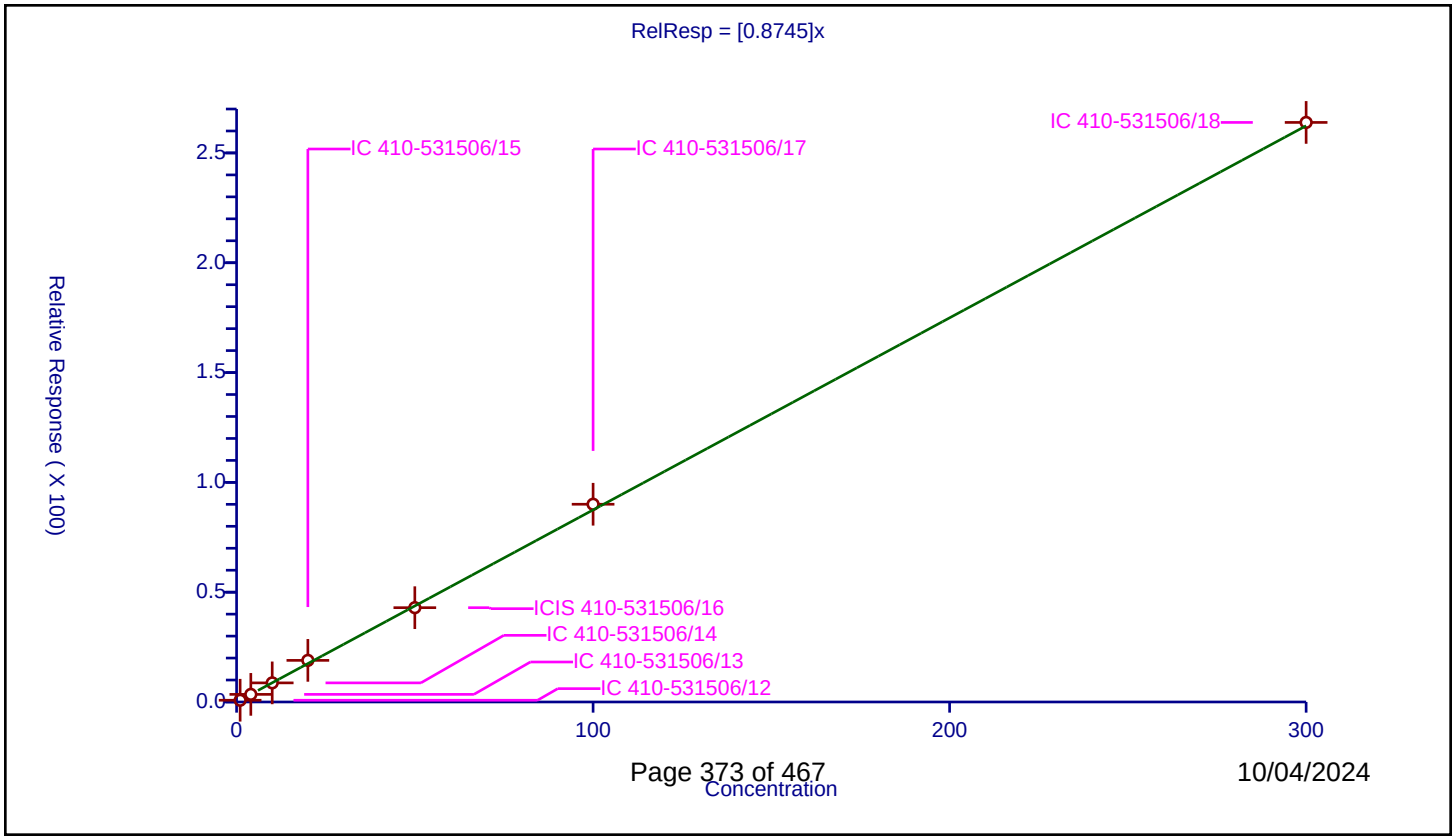
Curve Coefficients

Intercept:	0
Slope:	0.8745

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.799572	50.0	557861.0	0.799572	Y
2	IC 410-531506/13	4.0	3.462319	50.0	530396.0	0.86558	Y
3	IC 410-531506/14	10.0	8.701455	50.0	540243.0	0.870145	Y
4	IC 410-531506/15	20.0	18.953745	50.0	537374.0	0.947687	Y
5	ICIS 410-531506/16	50.0	42.938639	50.0	546736.0	0.858773	Y
6	IC 410-531506/17	100.0	90.044517	50.0	544956.0	0.900445	Y
7	IC 410-531506/18	300.0	263.887499	50.0	555478.0	0.879625	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

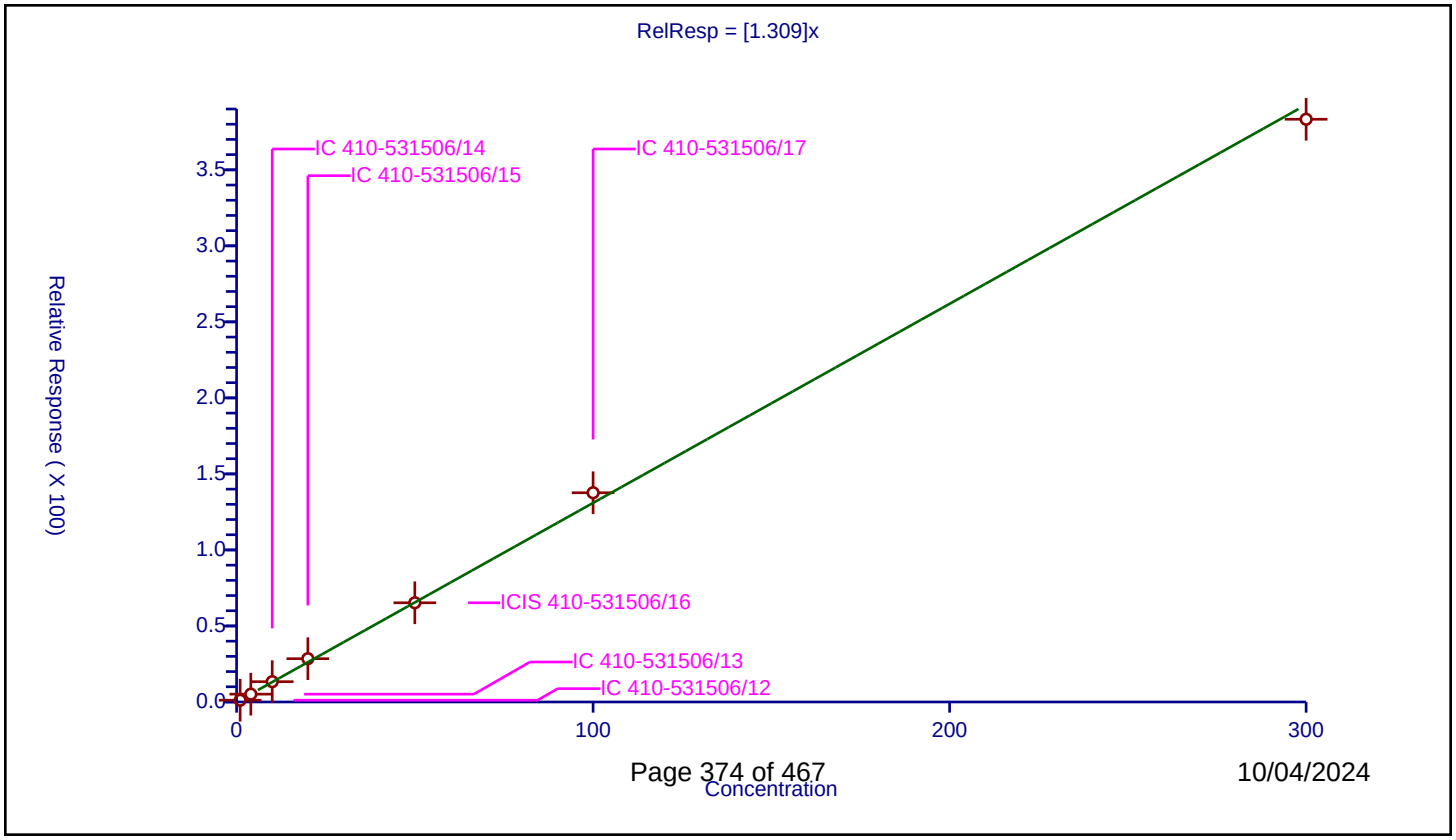
Curve Coefficients

Intercept:	0
Slope:	1.309

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	1.159787	50.0	557861.0	1.159787	Y
2	IC 410-531506/13	4.0	5.150397	50.0	530396.0	1.287599	Y
3	IC 410-531506/14	10.0	13.353435	50.0	540243.0	1.335344	Y
4	IC 410-531506/15	20.0	28.47849	50.0	537374.0	1.423924	Y
5	ICIS 410-531506/16	50.0	65.255626	50.0	546736.0	1.305113	Y
6	IC 410-531506/17	100.0	137.609275	50.0	544956.0	1.376093	Y
7	IC 410-531506/18	300.0	383.268014	50.0	555478.0	1.27756	Y



10/04/2024

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

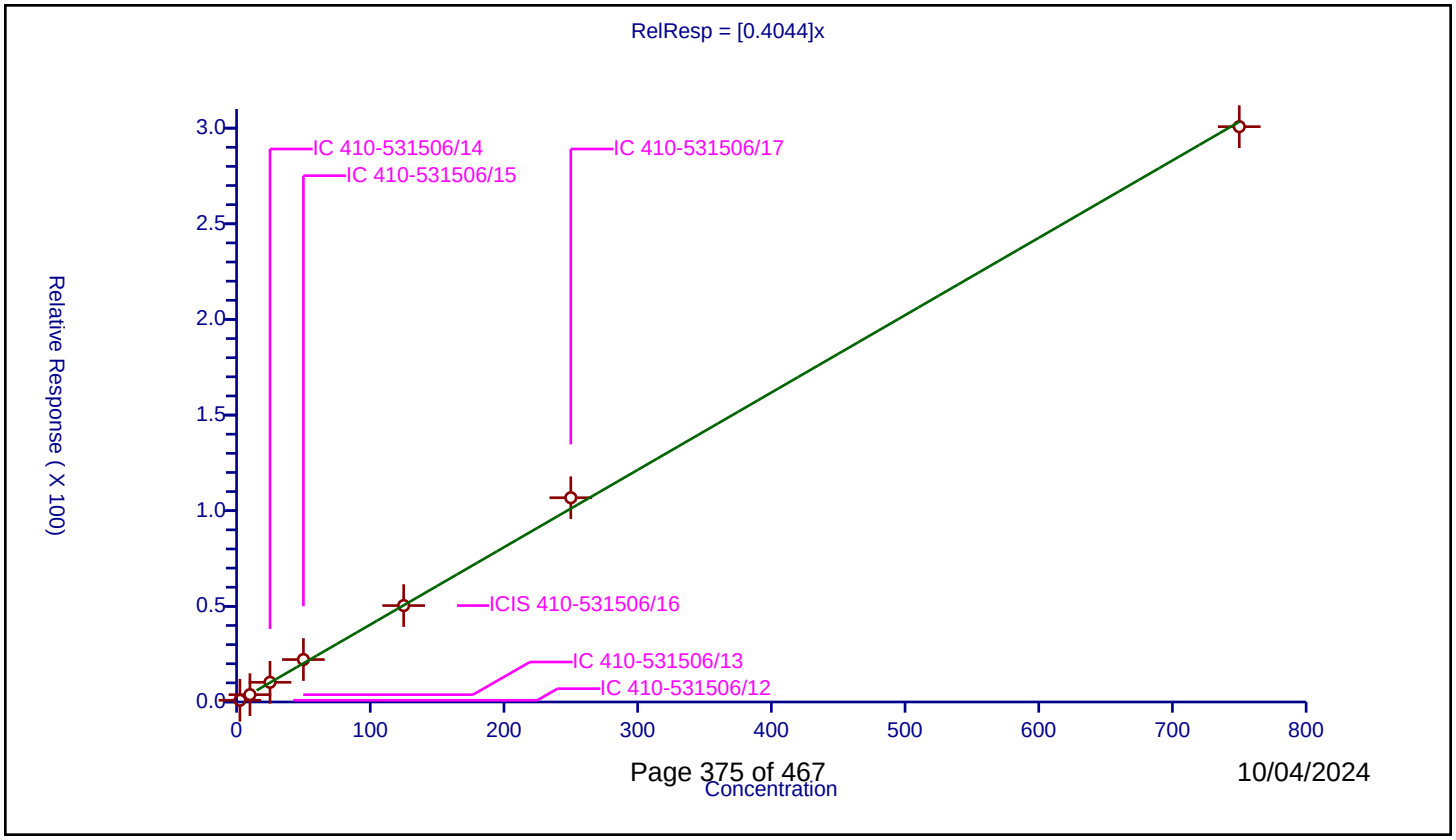
Curve Coefficients

Intercept:	0
Slope:	0.4044

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	2.5	0.903272	50.0	557861.0	0.361309	Y
2	IC 410-531506/13	10.0	3.827706	50.0	530396.0	0.382771	Y
3	IC 410-531506/14	25.0	10.289907	50.0	540243.0	0.411596	Y
4	IC 410-531506/15	50.0	22.193947	50.0	537374.0	0.443879	Y
5	ICIS 410-531506/16	125.0	50.407143	50.0	546736.0	0.403257	Y
6	IC 410-531506/17	250.0	106.784676	50.0	544956.0	0.427139	Y
7	IC 410-531506/18	750.0	300.773028	50.0	555478.0	0.401031	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

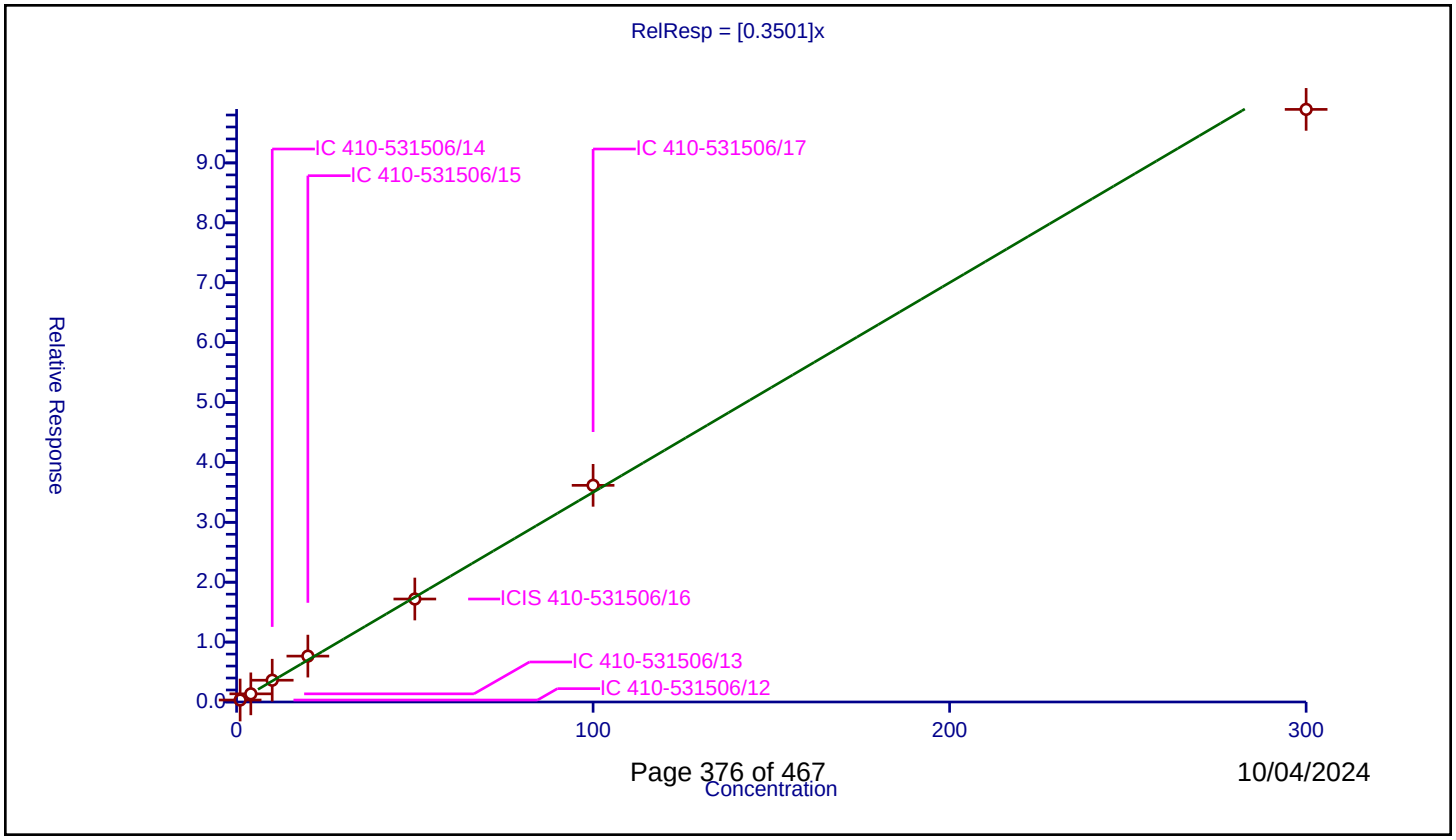
Curve Coefficients

Intercept:	0
Slope:	0.3501

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.328397	50.0	557861.0	0.328397	Y
2	IC 410-531506/13	4.0	1.360776	50.0	530396.0	0.340194	Y
3	IC 410-531506/14	10.0	3.634198	50.0	540243.0	0.36342	Y
4	IC 410-531506/15	20.0	7.660773	50.0	537374.0	0.383039	Y
5	ICIS 410-531506/16	50.0	17.193582	50.0	546736.0	0.343872	Y
6	IC 410-531506/17	100.0	36.169893	50.0	544956.0	0.361699	Y
7	IC 410-531506/18	300.0	98.938482	50.0	555478.0	0.329795	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

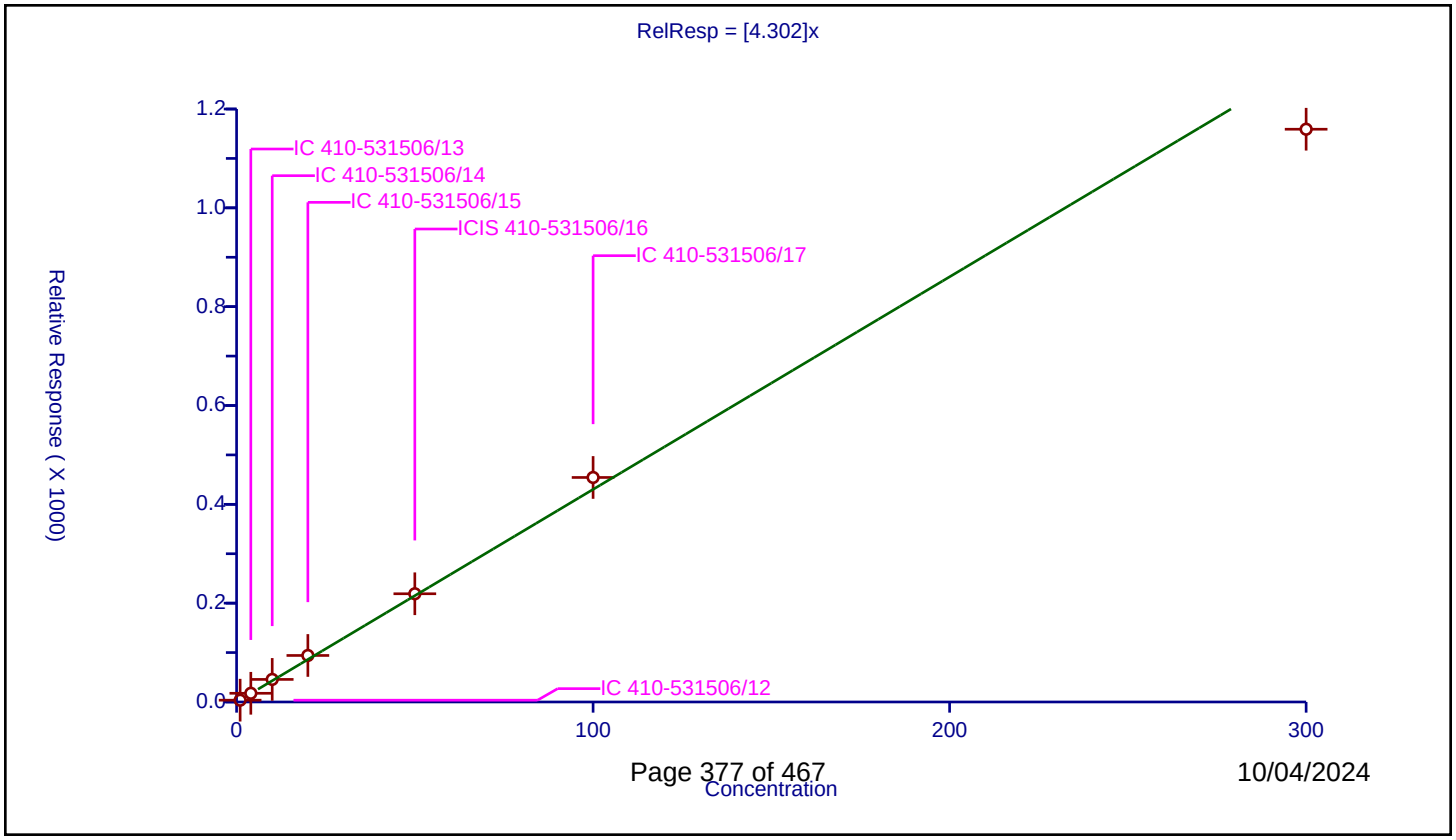
Curve Coefficients

Intercept:	0
Slope:	4.302

Error Coefficients

Relative Standard Deviation:	9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	3.645532	50.0	557861.0	3.645532	Y
2	IC 410-531506/13	4.0	17.611652	50.0	530396.0	4.402913	Y
3	IC 410-531506/14	10.0	45.707395	50.0	540243.0	4.570739	Y
4	IC 410-531506/15	20.0	94.14393	50.0	537374.0	4.707196	Y
5	ICIS 410-531506/16	50.0	219.044383	50.0	546736.0	4.380888	Y
6	IC 410-531506/17	100.0	454.370536	50.0	544956.0	4.543705	Y
7	IC 410-531506/18	300.0	1159.116383	50.0	555478.0	3.863721	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

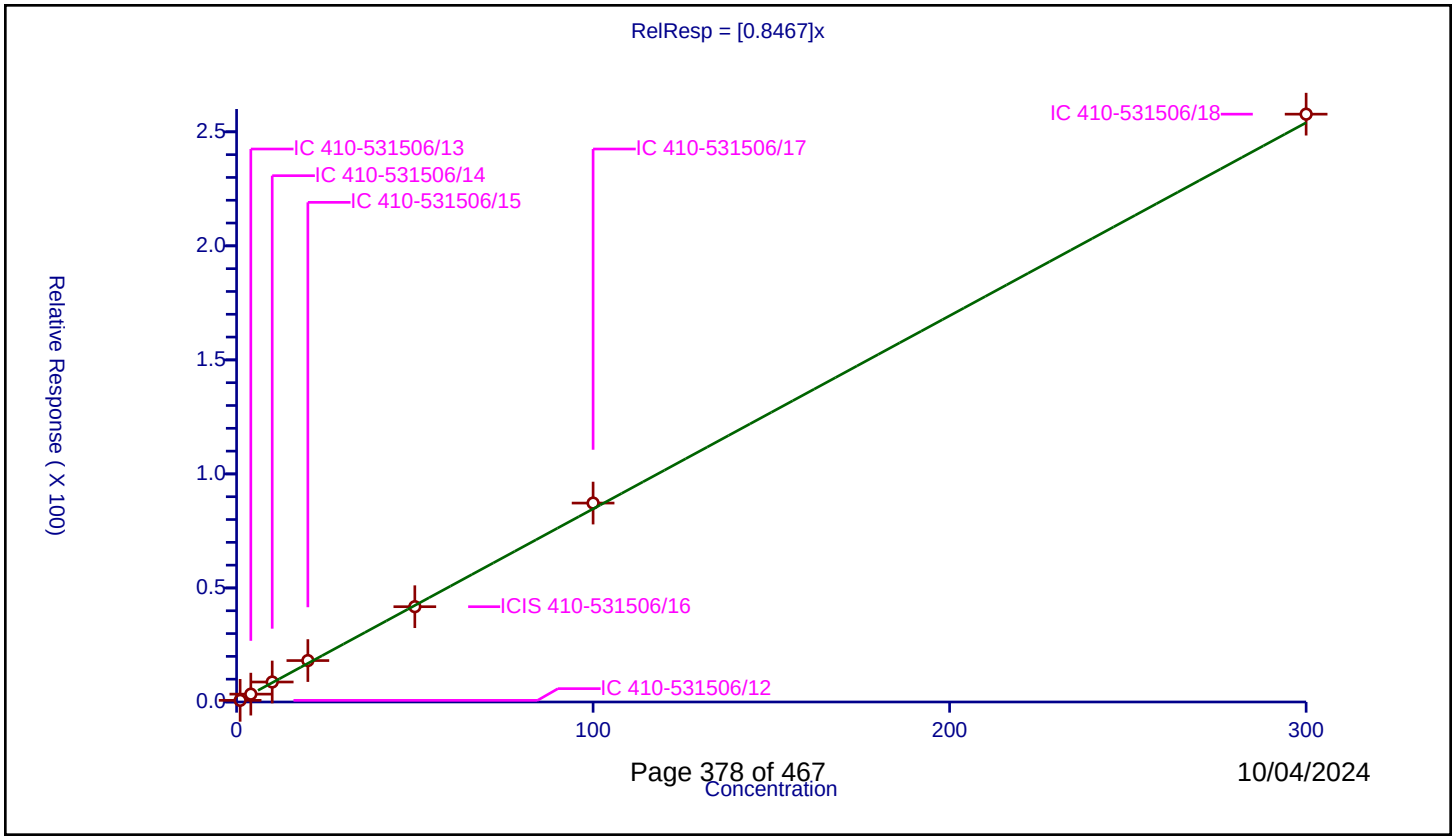
Curve Coefficients

Intercept:	0
Slope:	0.8467

Error Coefficients

Relative Standard Deviation:	7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.714336	50.0	557861.0	0.714336	Y
2	IC 410-531506/13	4.0	3.445822	50.0	530396.0	0.861455	Y
3	IC 410-531506/14	10.0	8.76078	50.0	540243.0	0.876078	Y
4	IC 410-531506/15	20.0	18.160629	50.0	537374.0	0.908031	Y
5	ICIS 410-531506/16	50.0	41.787627	50.0	546736.0	0.835753	Y
6	IC 410-531506/17	100.0	87.223556	50.0	544956.0	0.872236	Y
7	IC 410-531506/18	300.0	257.743781	50.0	555478.0	0.859146	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

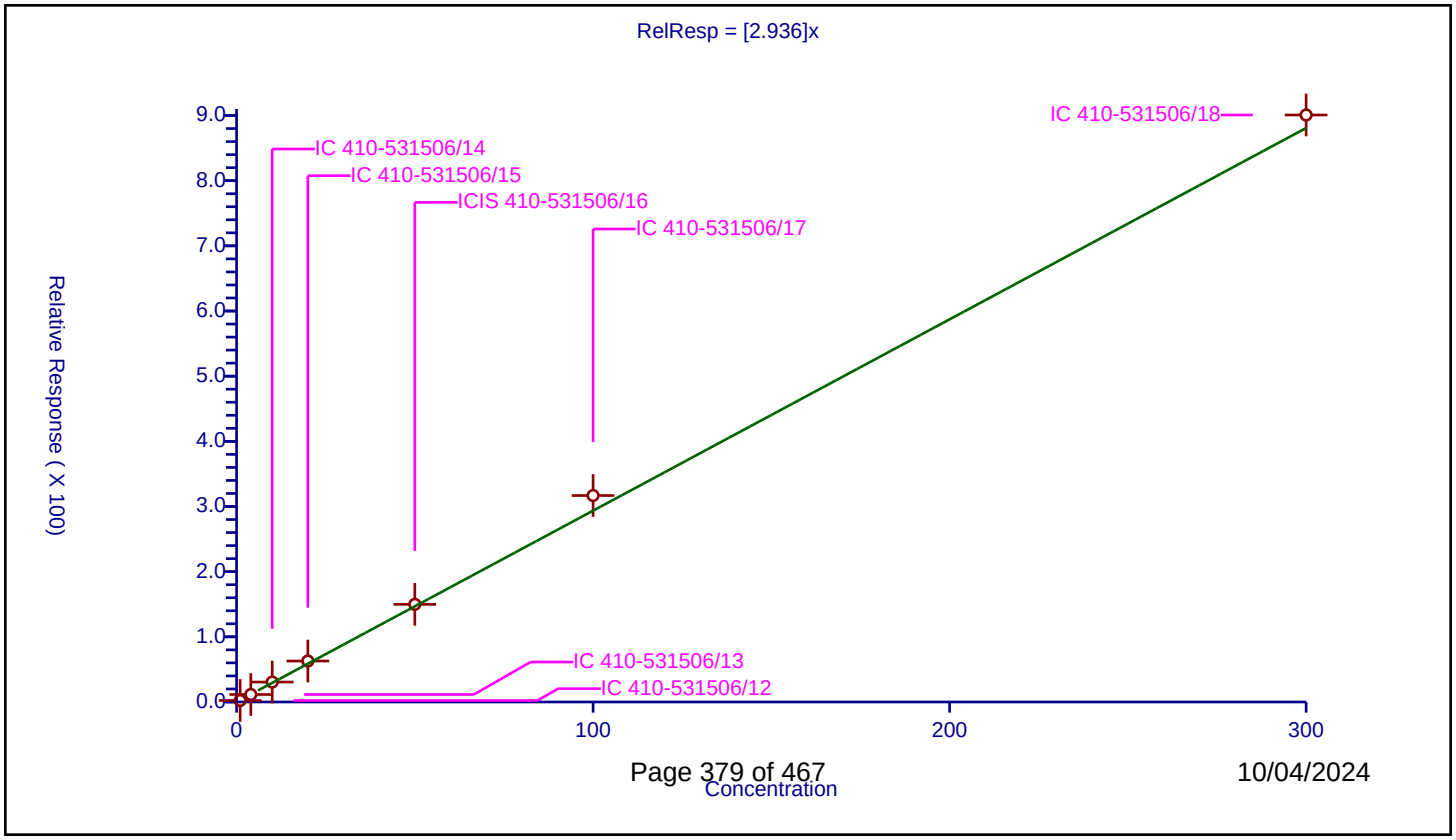
Curve Coefficients

Intercept:	0
Slope:	2.936

Error Coefficients

Relative Standard Deviation:	10.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	2.309536	50.0	557861.0	2.309536	Y
2	IC 410-531506/13	4.0	11.484532	50.0	530396.0	2.871133	Y
3	IC 410-531506/14	10.0	30.608911	50.0	540243.0	3.060891	Y
4	IC 410-531506/15	20.0	62.851013	50.0	537374.0	3.142551	Y
5	ICIS 410-531506/16	50.0	149.862091	50.0	546736.0	2.997242	Y
6	IC 410-531506/17	100.0	316.840901	50.0	544956.0	3.168409	Y
7	IC 410-531506/18	300.0	900.831536	50.0	555478.0	3.002772	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

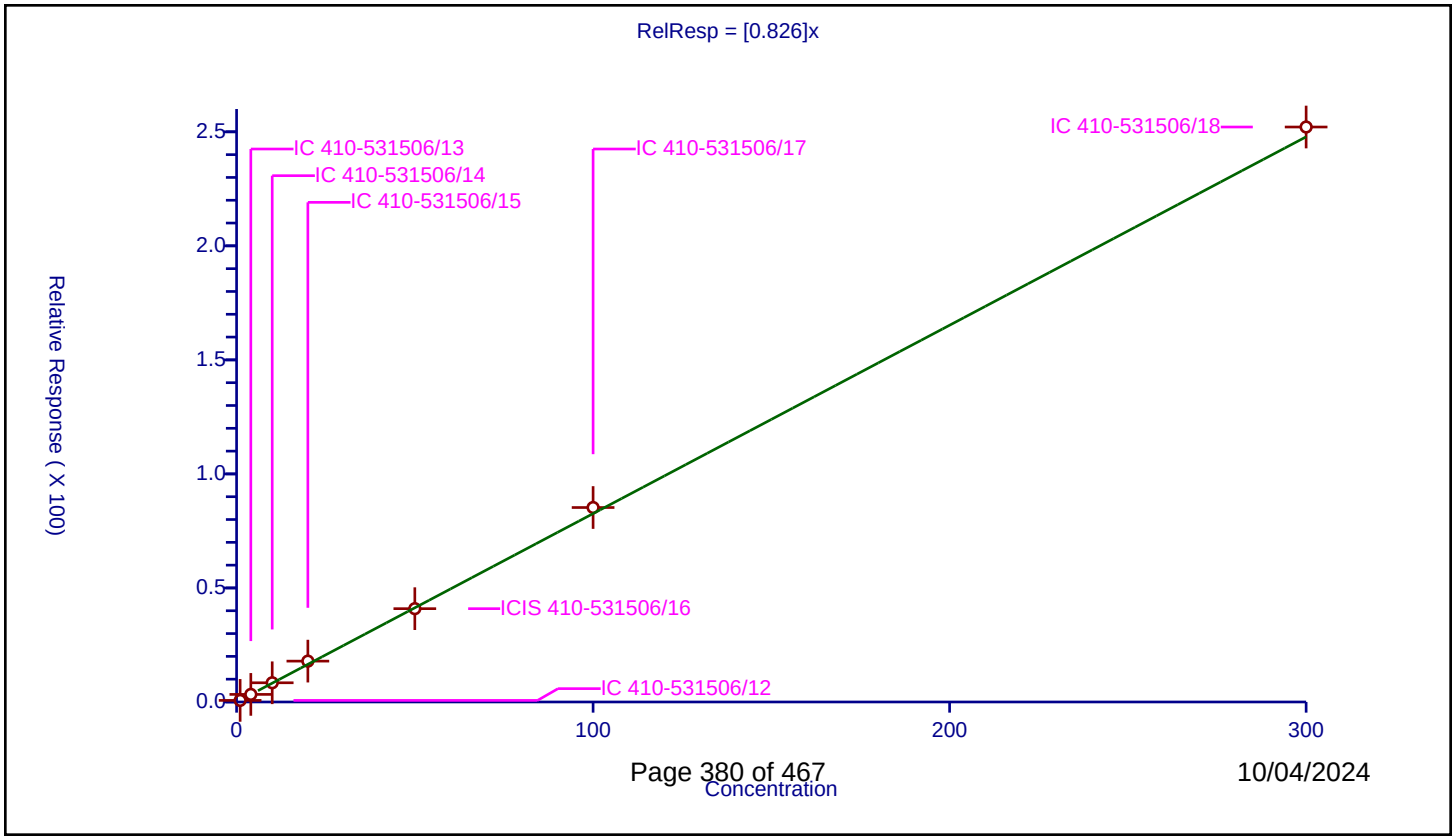
Curve Coefficients

Intercept:	0
Slope:	0.826

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.700174	50.0	557861.0	0.700174	Y
2	IC 410-531506/13	4.0	3.327514	50.0	530396.0	0.831878	Y
3	IC 410-531506/14	10.0	8.429818	50.0	540243.0	0.842982	Y
4	IC 410-531506/15	20.0	17.914711	50.0	537374.0	0.895736	Y
5	ICIS 410-531506/16	50.0	40.920481	50.0	546736.0	0.81841	Y
6	IC 410-531506/17	100.0	85.264957	50.0	544956.0	0.85265	Y
7	IC 410-531506/18	300.0	252.102694	50.0	555478.0	0.840342	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

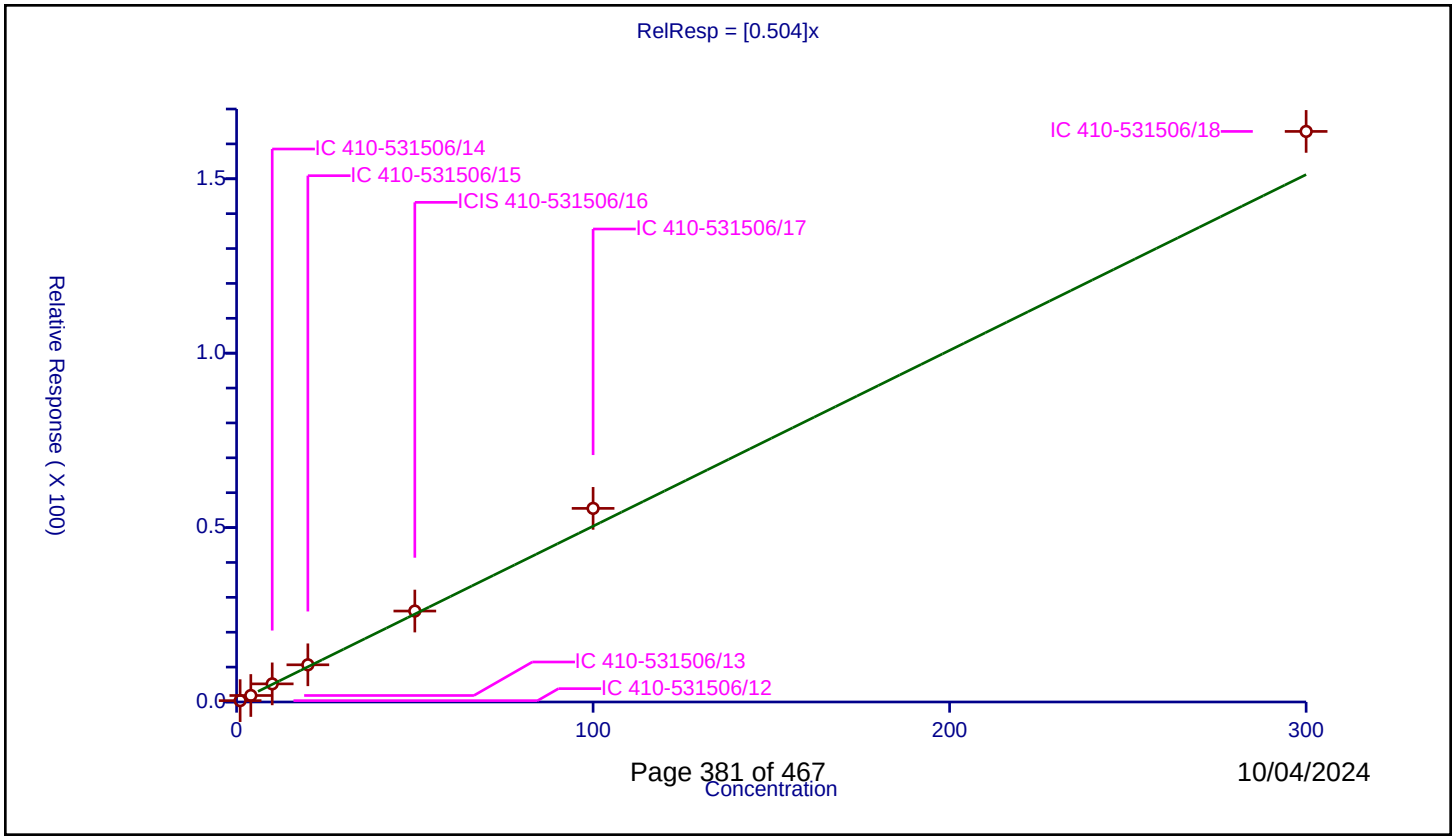
Curve Coefficients

Intercept:	0
Slope:	0.504

Error Coefficients

Relative Standard Deviation:	11.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.387283	50.0	557861.0	0.387283	Y
2	IC 410-531506/13	4.0	1.86521	50.0	530396.0	0.466303	Y
3	IC 410-531506/14	10.0	5.19618	50.0	540243.0	0.519618	Y
4	IC 410-531506/15	20.0	10.660266	50.0	537374.0	0.533013	Y
5	ICIS 410-531506/16	50.0	26.076662	50.0	546736.0	0.521533	Y
6	IC 410-531506/17	100.0	55.509527	50.0	544956.0	0.555095	Y
7	IC 410-531506/18	300.0	163.577585	50.0	555478.0	0.545259	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

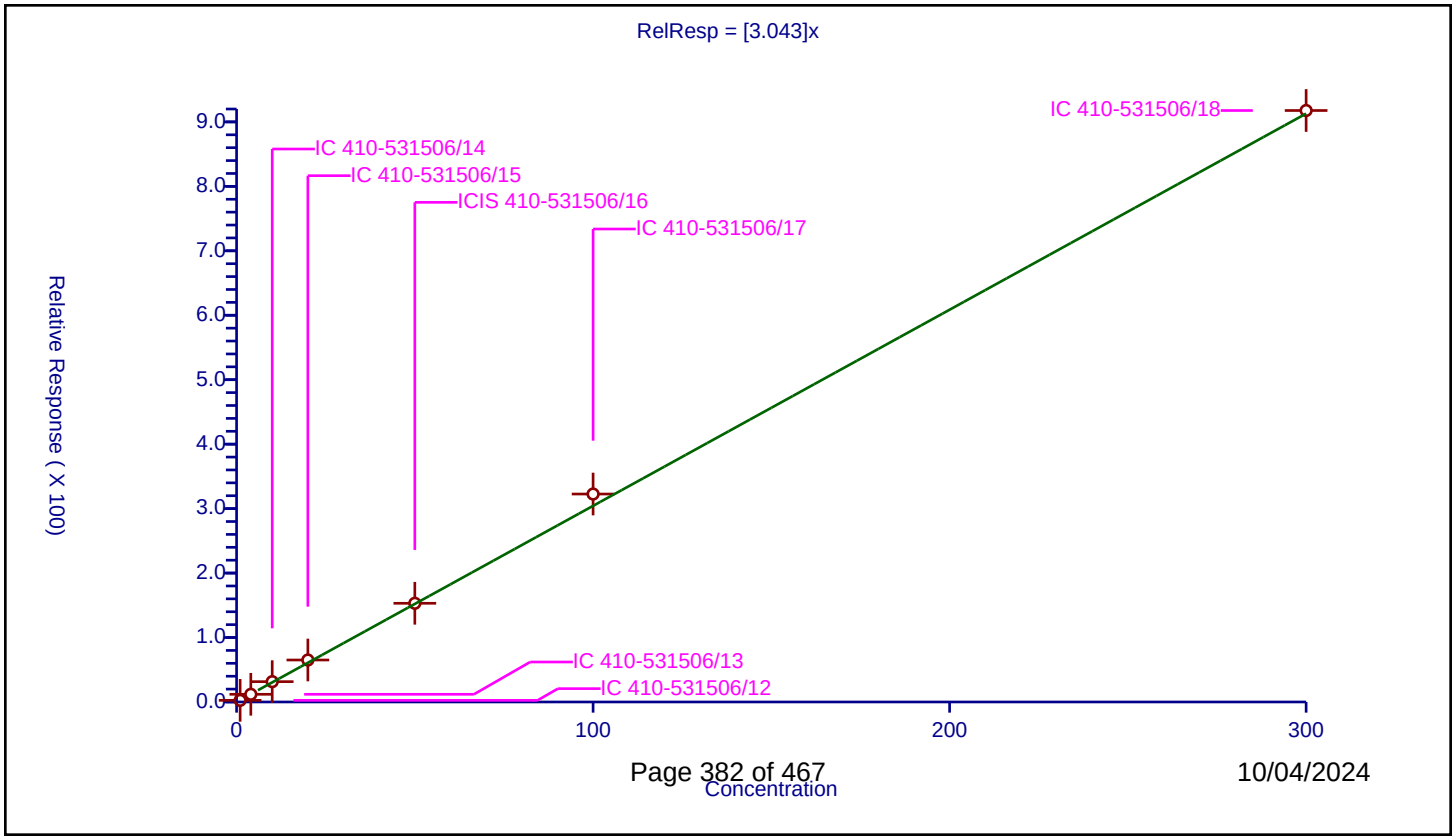
Curve Coefficients

Intercept:	0
Slope:	3.043

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	2.554131	50.0	557861.0	2.554131	Y
2	IC 410-531506/13	4.0	11.950882	50.0	530396.0	2.98772	Y
3	IC 410-531506/14	10.0	31.545064	50.0	540243.0	3.154506	Y
4	IC 410-531506/15	20.0	65.127546	50.0	537374.0	3.256377	Y
5	ICIS 410-531506/16	50.0	153.146491	50.0	546736.0	3.06293	Y
6	IC 410-531506/17	100.0	322.632011	50.0	544956.0	3.22632	Y
7	IC 410-531506/18	300.0	917.69296	50.0	555478.0	3.058977	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

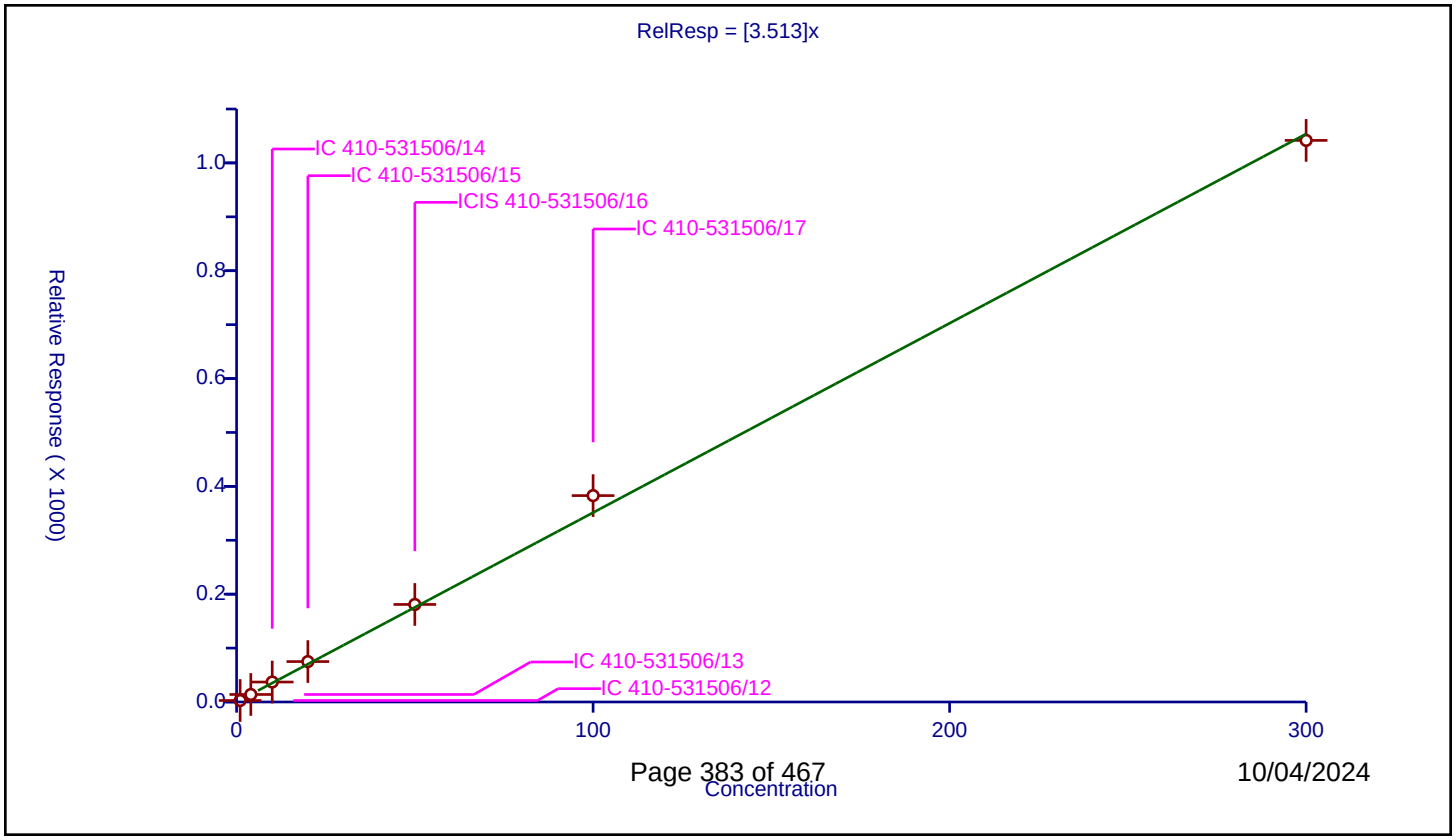
Curve Coefficients

Intercept:	0
Slope:	3.513

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	2.742439	50.0	557861.0	2.742439	Y
2	IC 410-531506/13	4.0	13.907816	50.0	530396.0	3.476954	Y
3	IC 410-531506/14	10.0	37.045737	50.0	540243.0	3.704574	Y
4	IC 410-531506/15	20.0	74.944173	50.0	537374.0	3.747209	Y
5	ICIS 410-531506/16	50.0	180.904952	50.0	546736.0	3.618099	Y
6	IC 410-531506/17	100.0	382.839165	50.0	544956.0	3.828392	Y
7	IC 410-531506/18	300.0	1041.784823	50.0	555478.0	3.472616	Y



10/04/2024

Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

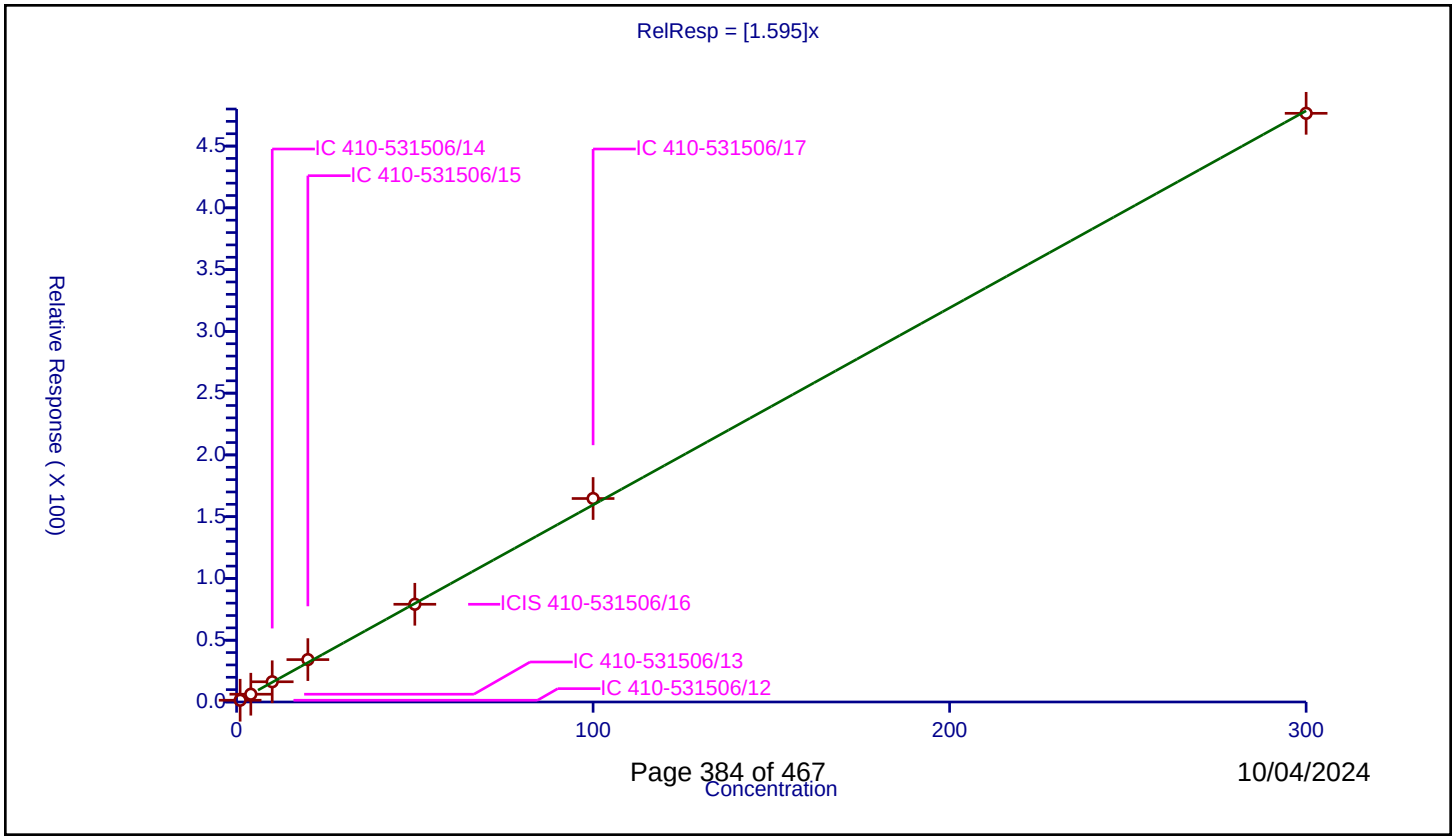
Curve Coefficients

Intercept:	0
Slope:	1.595

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	1.420784	50.0	557861.0	1.420784	Y
2	IC 410-531506/13	4.0	6.299067	50.0	530396.0	1.574767	Y
3	IC 410-531506/14	10.0	16.377352	50.0	540243.0	1.637735	Y
4	IC 410-531506/15	20.0	34.303018	50.0	537374.0	1.715151	Y
5	ICIS 410-531506/16	50.0	79.099145	50.0	546736.0	1.581983	Y
6	IC 410-531506/17	100.0	164.713573	50.0	544956.0	1.647136	Y
7	IC 410-531506/18	300.0	476.525443	50.0	555478.0	1.588418	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

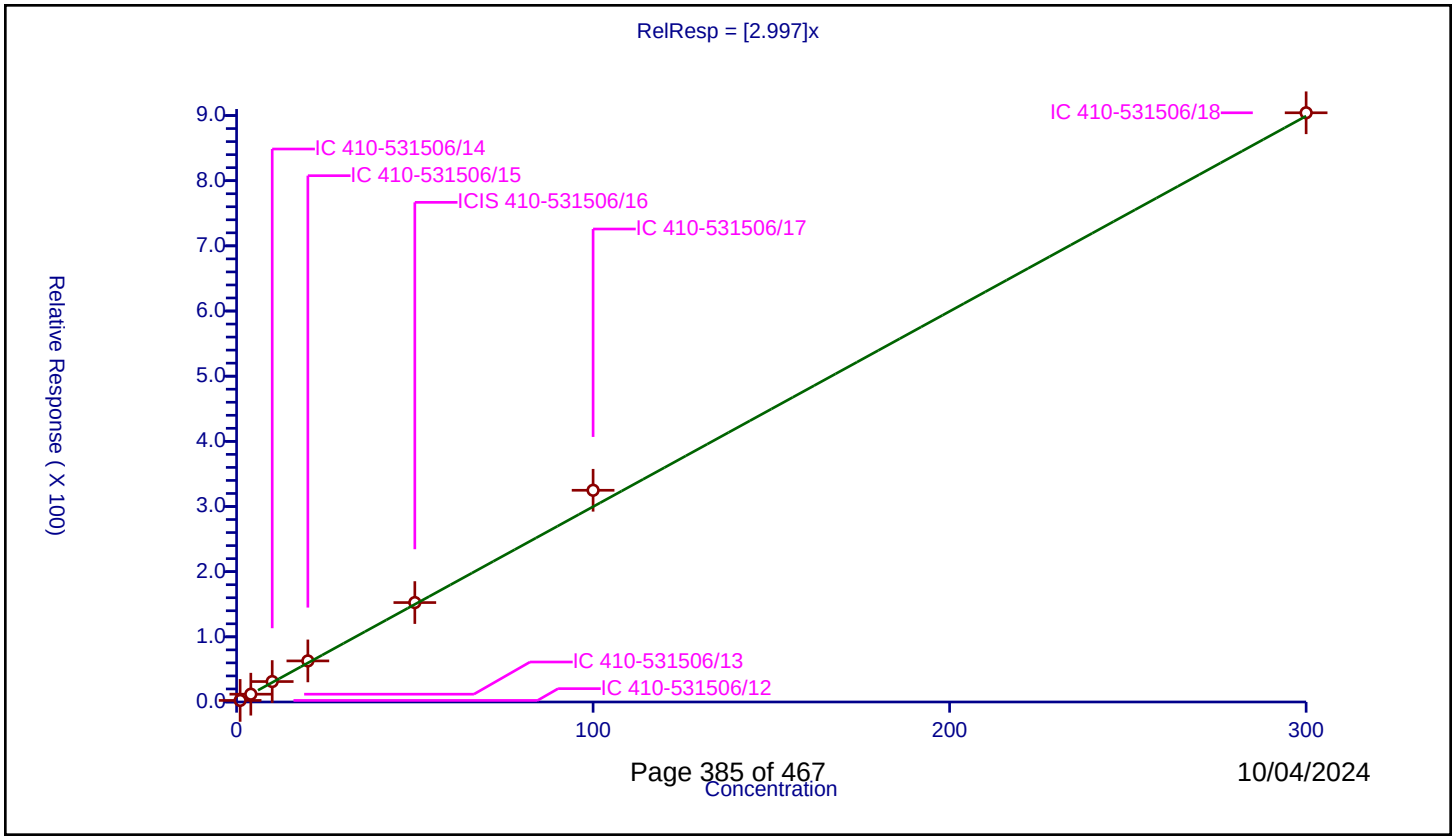
Curve Coefficients

Intercept:	0
Slope:	2.997

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	2.383031	50.0	557861.0	2.383031	Y
2	IC 410-531506/13	4.0	11.974355	50.0	530396.0	2.993589	Y
3	IC 410-531506/14	10.0	31.376344	50.0	540243.0	3.137634	Y
4	IC 410-531506/15	20.0	63.042964	50.0	537374.0	3.152148	Y
5	ICIS 410-531506/16	50.0	152.568607	50.0	546736.0	3.051372	Y
6	IC 410-531506/17	100.0	324.898249	50.0	544956.0	3.248982	Y
7	IC 410-531506/18	300.0	904.22393	50.0	555478.0	3.01408	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

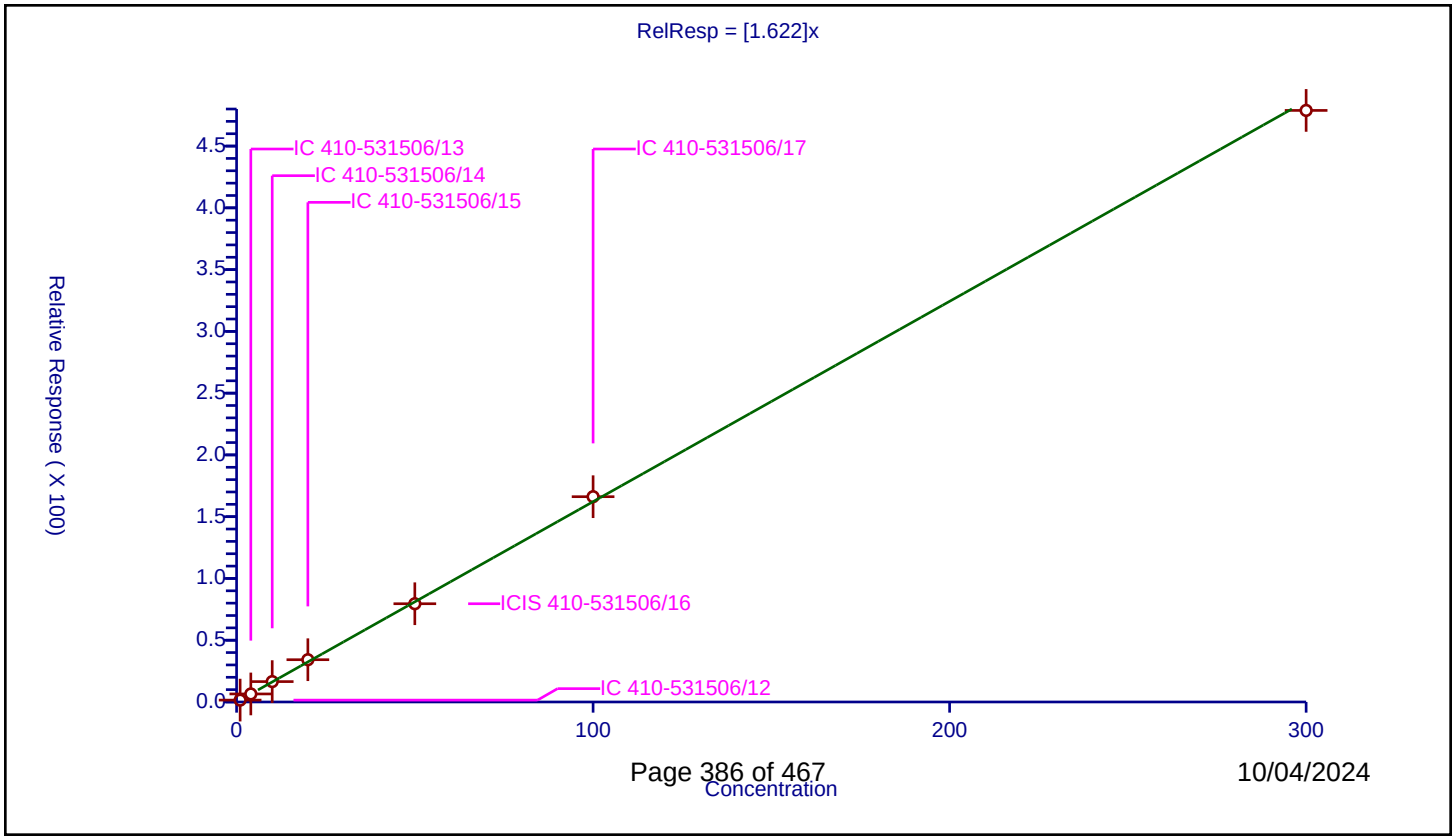
Curve Coefficients

Intercept:	0
Slope:	1.622

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	1.513997	50.0	557861.0	1.513997	Y
2	IC 410-531506/13	4.0	6.509287	50.0	530396.0	1.627322	Y
3	IC 410-531506/14	10.0	16.503037	50.0	540243.0	1.650304	Y
4	IC 410-531506/15	20.0	34.222813	50.0	537374.0	1.711141	Y
5	ICIS 410-531506/16	50.0	79.525219	50.0	546736.0	1.590504	Y
6	IC 410-531506/17	100.0	166.17782	50.0	544956.0	1.661778	Y
7	IC 410-531506/18	300.0	478.849477	50.0	555478.0	1.596165	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

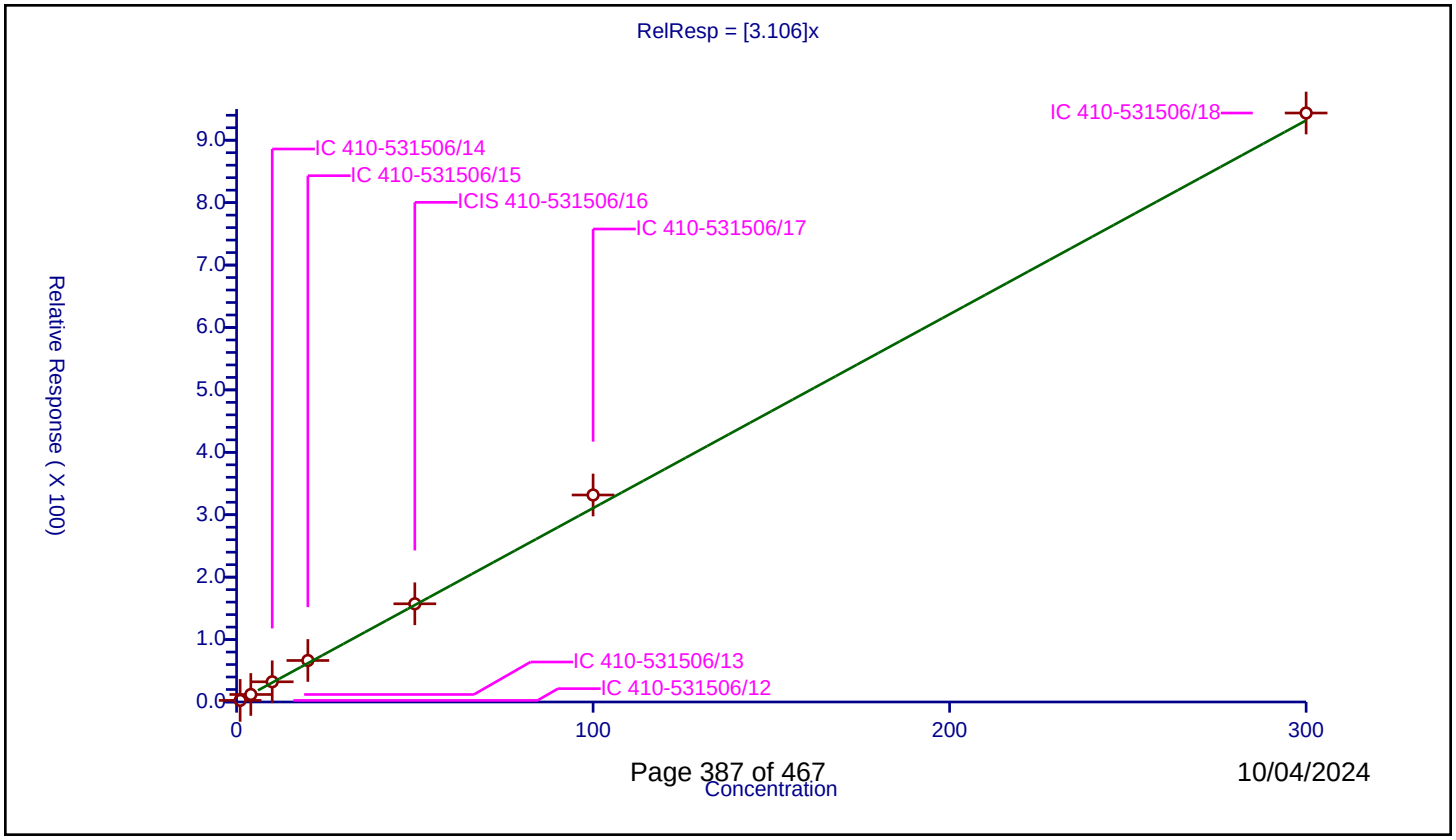
Curve Coefficients

Intercept:	0
Slope:	3.106

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	2.561122	50.0	557861.0	2.561122	Y
2	IC 410-531506/13	4.0	12.041286	50.0	530396.0	3.010322	Y
3	IC 410-531506/14	10.0	32.363585	50.0	540243.0	3.236358	Y
4	IC 410-531506/15	20.0	66.514476	50.0	537374.0	3.325724	Y
5	ICIS 410-531506/16	50.0	157.312944	50.0	546736.0	3.146259	Y
6	IC 410-531506/17	100.0	331.617965	50.0	544956.0	3.31618	Y
7	IC 410-531506/18	300.0	943.574003	50.0	555478.0	3.145247	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

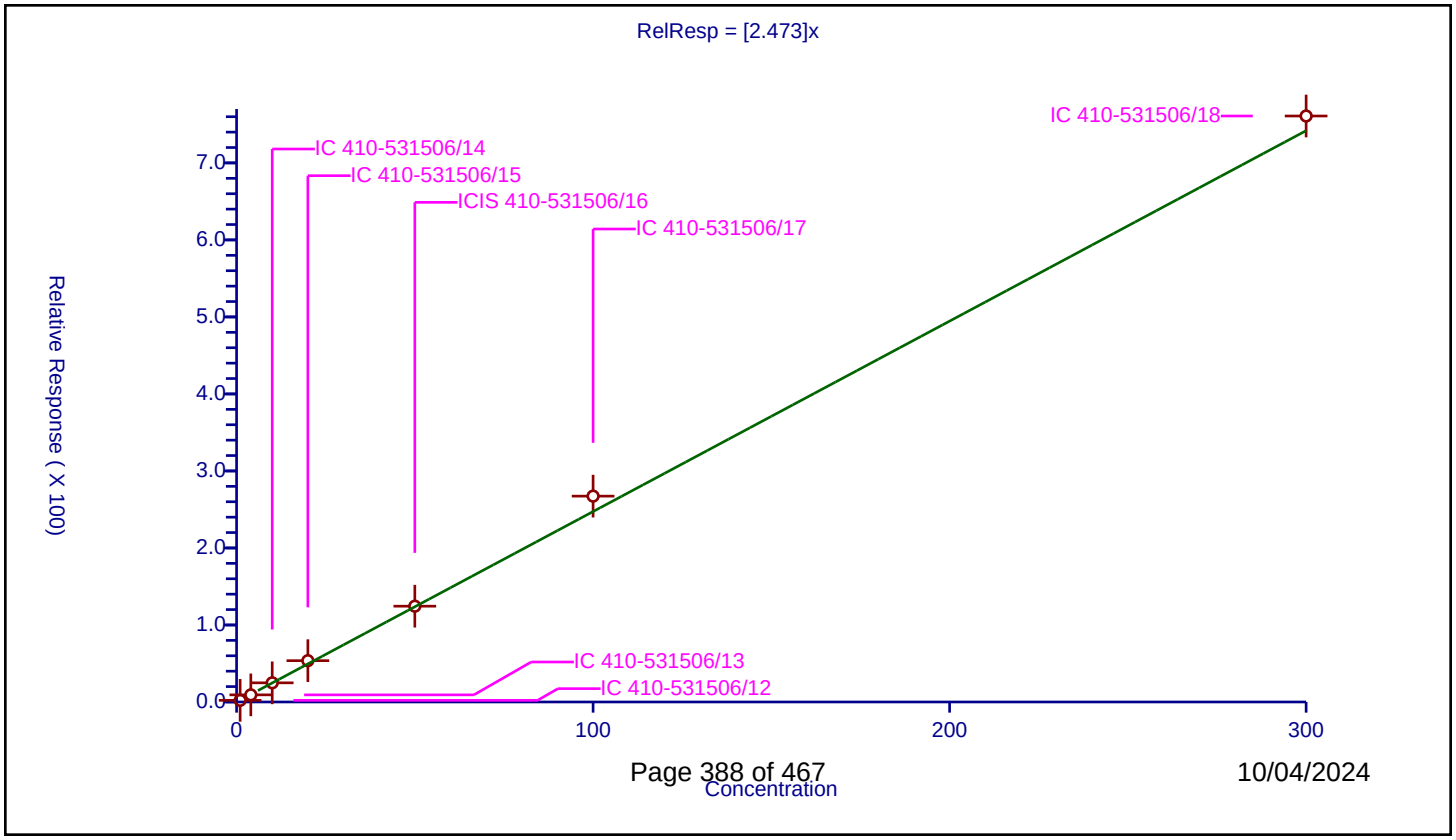
Curve Coefficients

Intercept:	0
Slope:	2.473

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	2.127949	50.0	557861.0	2.127949	Y
2	IC 410-531506/13	4.0	9.256103	50.0	530396.0	2.314026	Y
3	IC 410-531506/14	10.0	24.88334	50.0	540243.0	2.488334	Y
4	IC 410-531506/15	20.0	53.65174	50.0	537374.0	2.682587	Y
5	ICIS 410-531506/16	50.0	124.394223	50.0	546736.0	2.487884	Y
6	IC 410-531506/17	100.0	267.310755	50.0	544956.0	2.673108	Y
7	IC 410-531506/18	300.0	760.910513	50.0	555478.0	2.536368	Y



10/04/2024

Calibration / 1,3-Diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

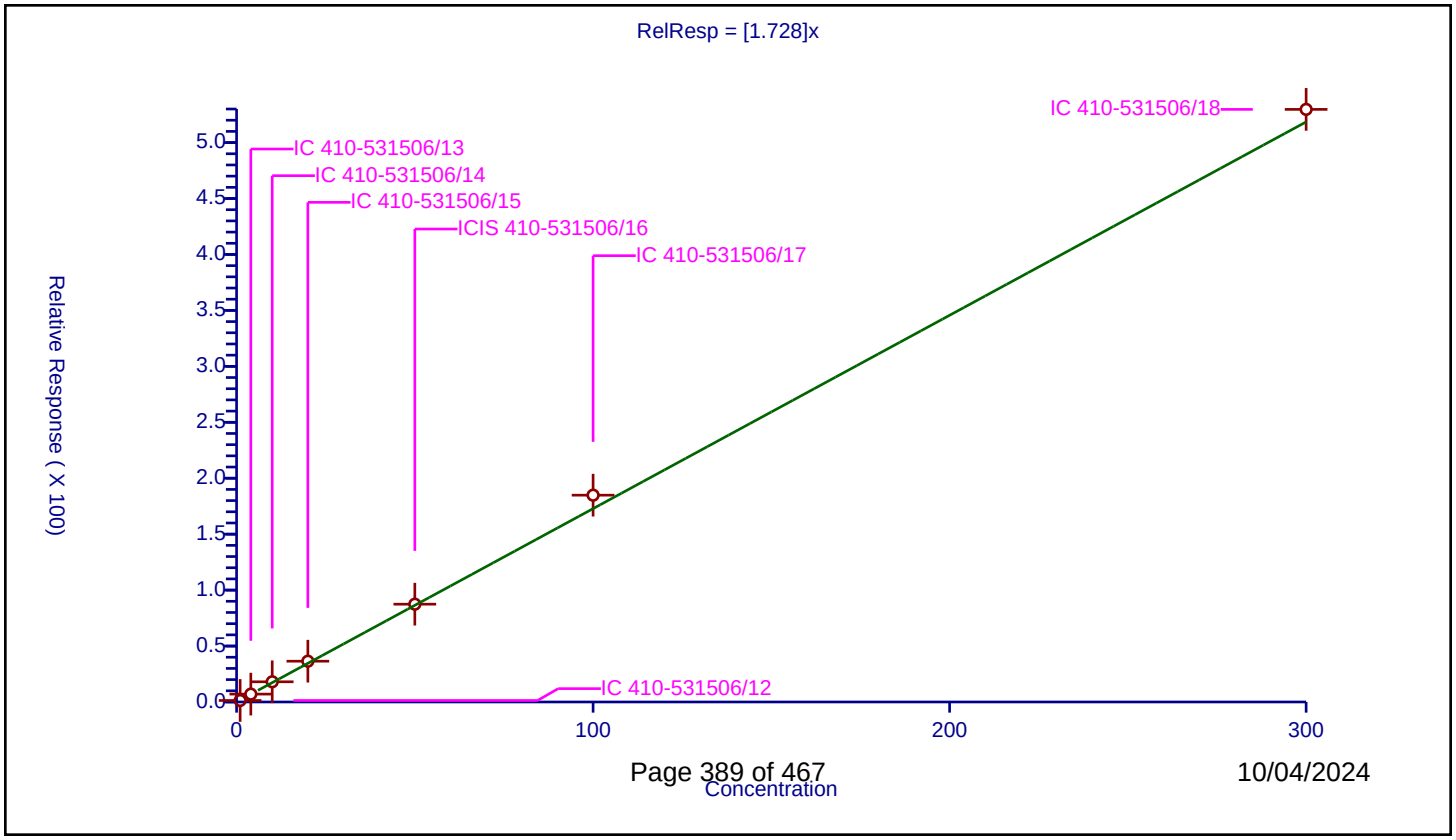
Curve Coefficients

Intercept:	0
Slope:	1.728

Error Coefficients

Relative Standard Deviation:	9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	1.347916	50.0	557861.0	1.347916	Y
2	IC 410-531506/13	4.0	7.032104	50.0	530396.0	1.758026	Y
3	IC 410-531506/14	10.0	18.061132	50.0	540243.0	1.806113	Y
4	IC 410-531506/15	20.0	36.462036	50.0	537374.0	1.823102	Y
5	ICIS 410-531506/16	50.0	87.420894	50.0	546736.0	1.748418	Y
6	IC 410-531506/17	100.0	184.842446	50.0	544956.0	1.848424	Y
7	IC 410-531506/18	300.0	529.667242	50.0	555478.0	1.765557	Y



Calibration / p-Diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

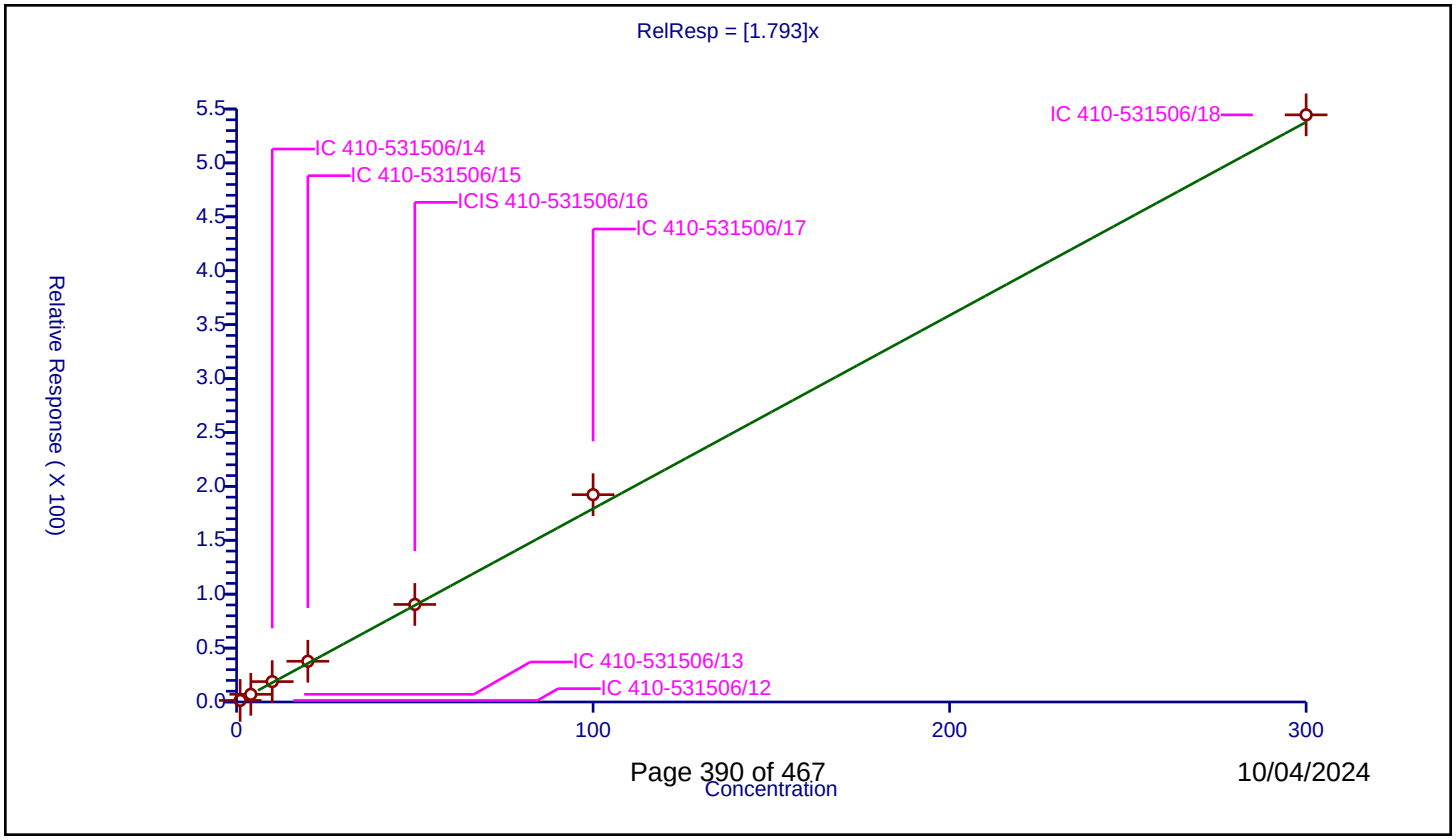
Curve Coefficients

Intercept:	0
Slope:	1.793

Error Coefficients

Relative Standard Deviation:	9.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	1.446507	50.0	557861.0	1.446507	Y
2	IC 410-531506/13	4.0	7.11195	50.0	530396.0	1.777988	Y
3	IC 410-531506/14	10.0	18.899088	50.0	540243.0	1.889909	Y
4	IC 410-531506/15	20.0	37.779833	50.0	537374.0	1.888992	Y
5	ICIS 410-531506/16	50.0	90.471269	50.0	546736.0	1.809425	Y
6	IC 410-531506/17	100.0	192.299654	50.0	544956.0	1.922997	Y
7	IC 410-531506/18	300.0	544.574043	50.0	555478.0	1.815247	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

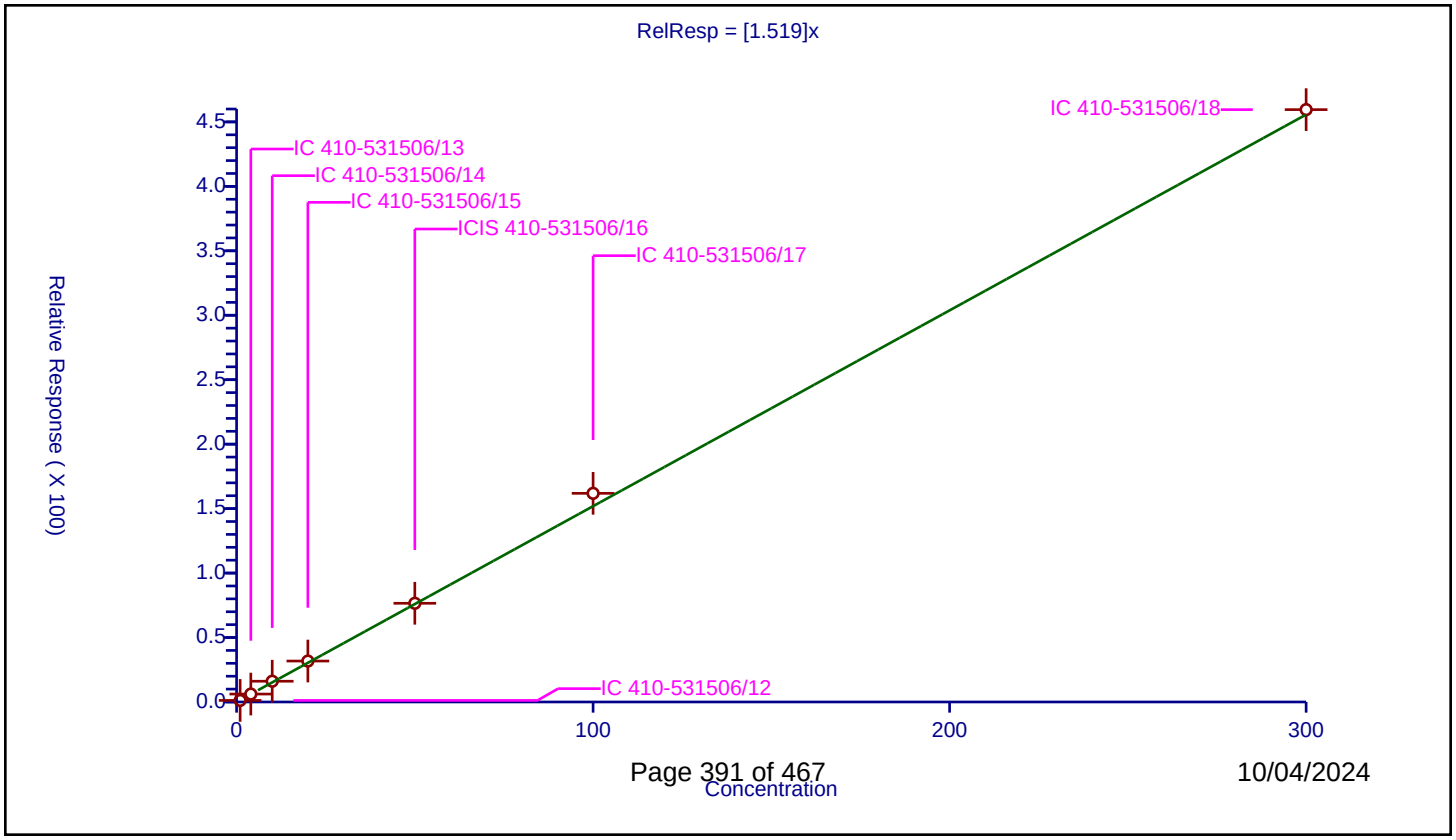
Curve Coefficients

Intercept:	0
Slope:	1.519

Error Coefficients

Relative Standard Deviation:	9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	1.211054	50.0	557861.0	1.211054	Y
2	IC 410-531506/13	4.0	6.163602	50.0	530396.0	1.540901	Y
3	IC 410-531506/14	10.0	16.113675	50.0	540243.0	1.611367	Y
4	IC 410-531506/15	20.0	31.753955	50.0	537374.0	1.587698	Y
5	ICIS 410-531506/16	50.0	76.565929	50.0	546736.0	1.531319	Y
6	IC 410-531506/17	100.0	161.856829	50.0	544956.0	1.618568	Y
7	IC 410-531506/18	300.0	459.52936	50.0	555478.0	1.531765	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

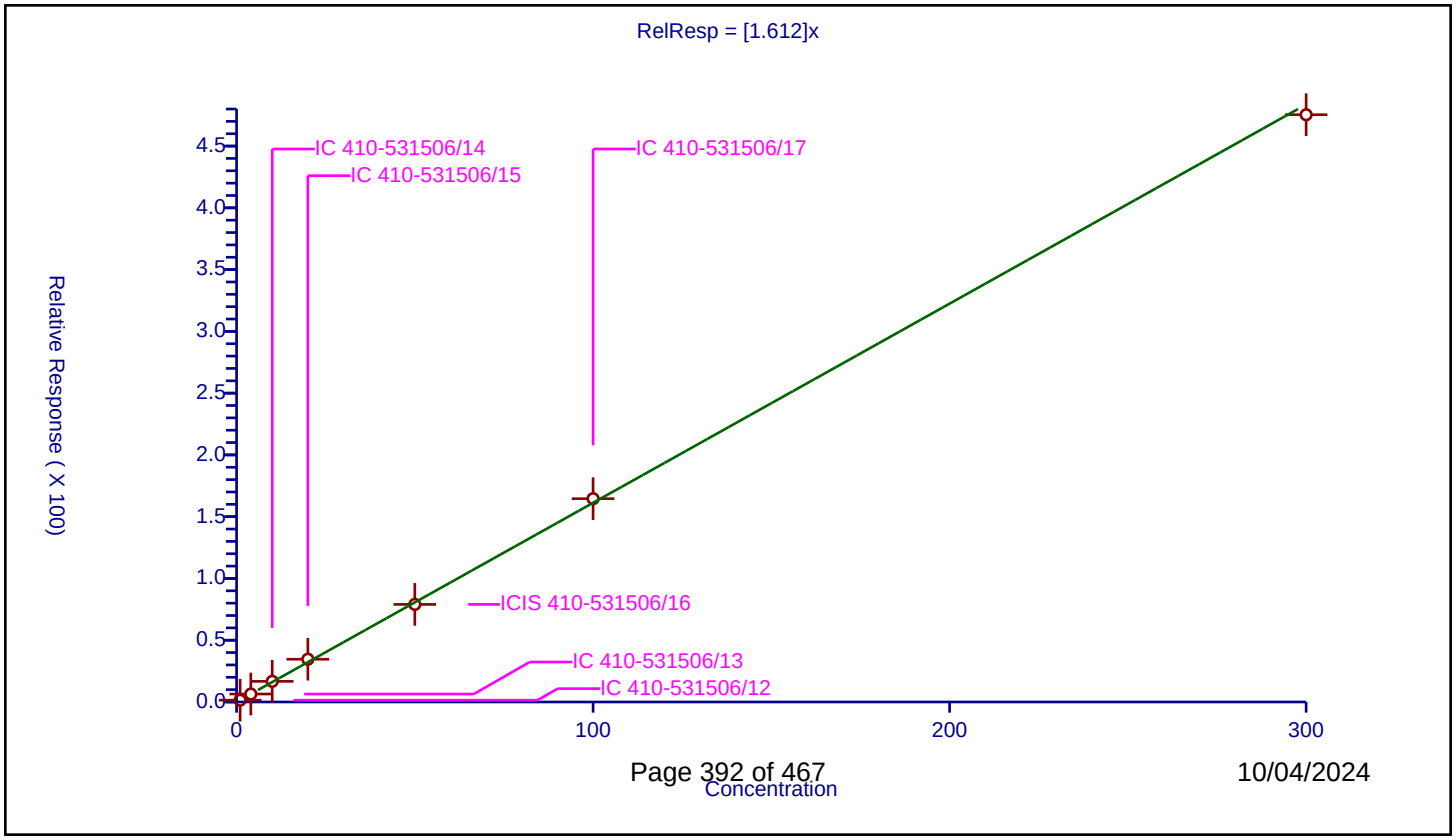
Curve Coefficients

Intercept:	0
Slope:	1.612

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	1.46515	50.0	557861.0	1.46515	Y
2	IC 410-531506/13	4.0	6.441414	50.0	530396.0	1.610353	Y
3	IC 410-531506/14	10.0	16.694432	50.0	540243.0	1.669443	Y
4	IC 410-531506/15	20.0	34.604577	50.0	537374.0	1.730229	Y
5	ICIS 410-531506/16	50.0	79.004675	50.0	546736.0	1.580094	Y
6	IC 410-531506/17	100.0	164.563653	50.0	544956.0	1.645637	Y
7	IC 410-531506/18	300.0	475.385524	50.0	555478.0	1.584618	Y



Calibration / o-diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

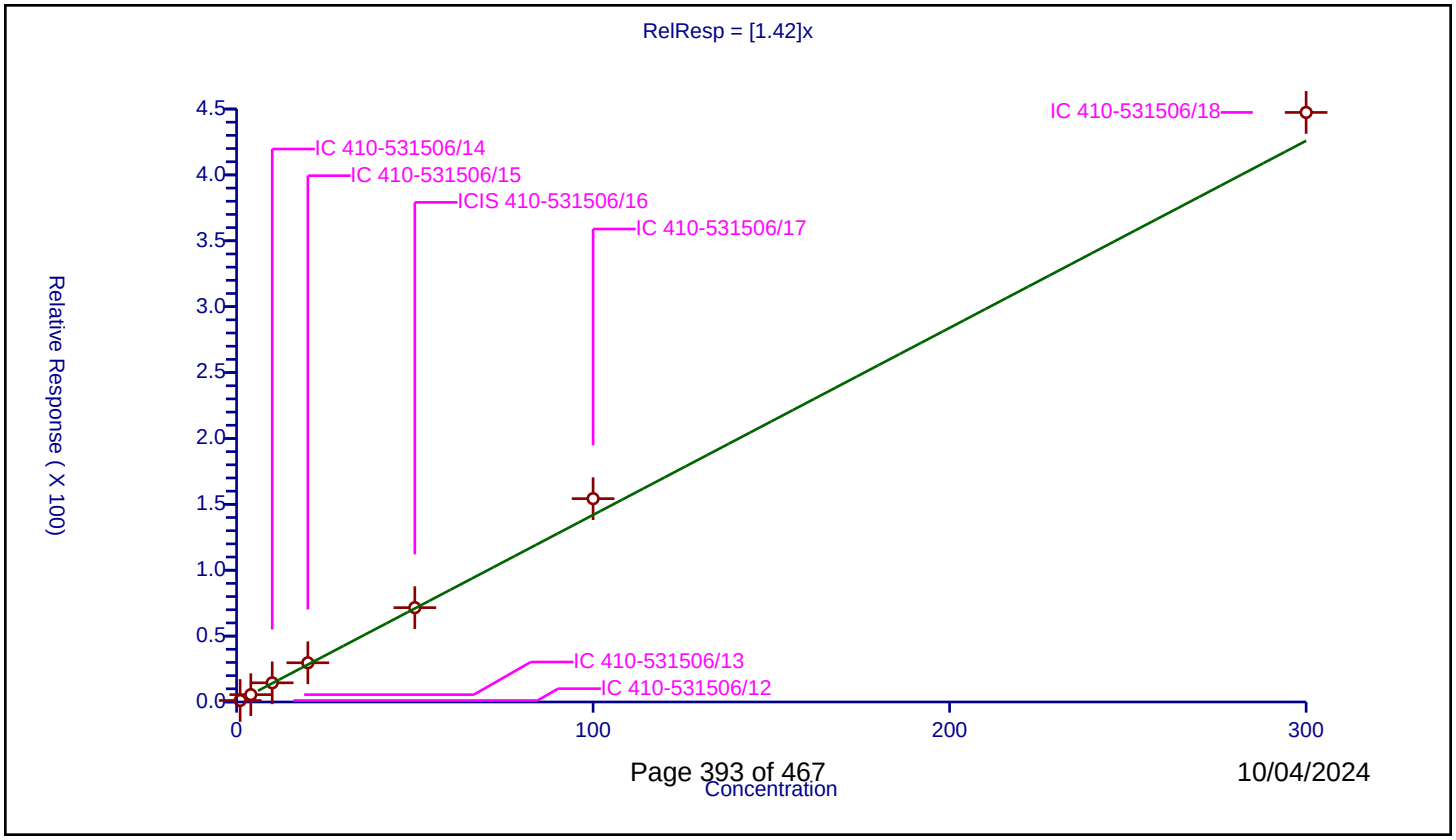
Curve Coefficients

Intercept:	0
Slope:	1.42

Error Coefficients

Relative Standard Deviation:	9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	1.13729	50.0	557861.0	1.13729	Y
2	IC 410-531506/13	4.0	5.569047	50.0	530396.0	1.392262	Y
3	IC 410-531506/14	10.0	14.536329	50.0	540243.0	1.453633	Y
4	IC 410-531506/15	20.0	29.762698	50.0	537374.0	1.488135	Y
5	ICIS 410-531506/16	50.0	71.578605	50.0	546736.0	1.431572	Y
6	IC 410-531506/17	100.0	154.326221	50.0	544956.0	1.543262	Y
7	IC 410-531506/18	300.0	447.399717	50.0	555478.0	1.491332	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

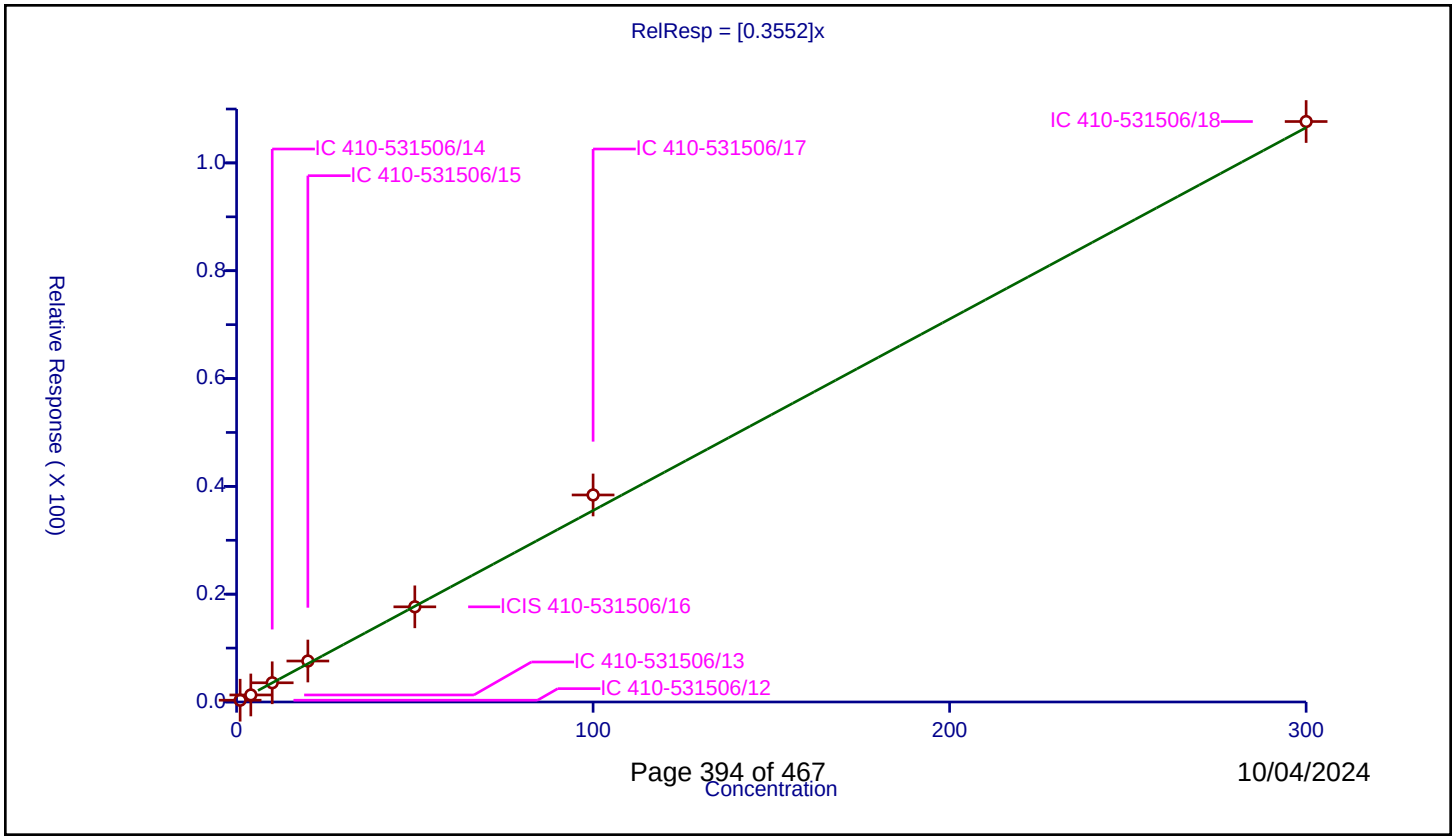
Curve Coefficients

Intercept:	0
Slope:	0.3552

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.327859	50.0	557861.0	0.327859	Y
2	IC 410-531506/13	4.0	1.304308	50.0	530396.0	0.326077	Y
3	IC 410-531506/14	10.0	3.563582	50.0	540243.0	0.356358	Y
4	IC 410-531506/15	20.0	7.599456	50.0	537374.0	0.379973	Y
5	ICIS 410-531506/16	50.0	17.652487	50.0	546736.0	0.35305	Y
6	IC 410-531506/17	100.0	38.406862	50.0	544956.0	0.384069	Y
7	IC 410-531506/18	300.0	107.682122	50.0	555478.0	0.35894	Y



10/04/2024

Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

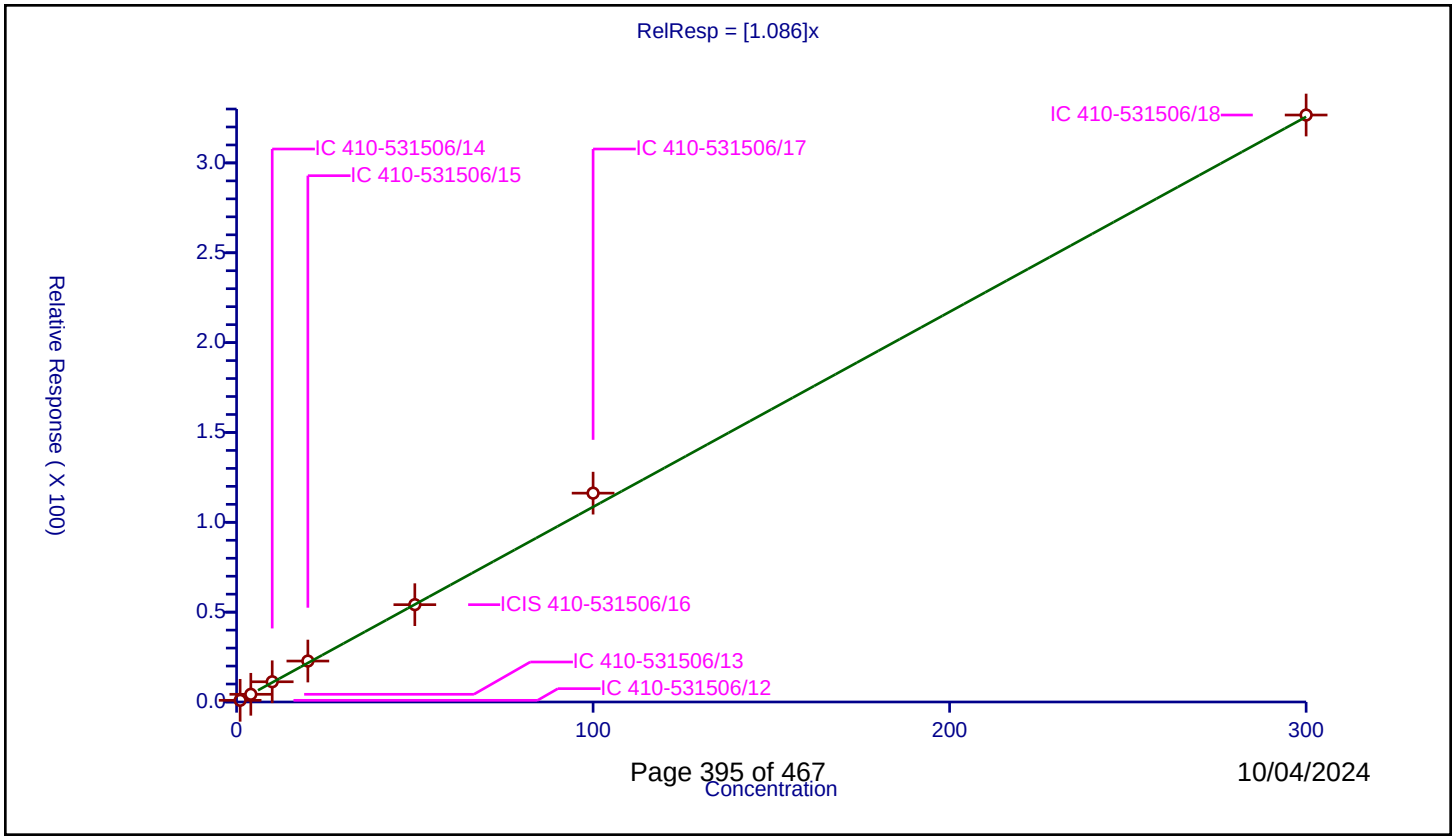
Curve Coefficients

Intercept:	0
Slope:	1.086

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.929981	50.0	557861.0	0.929981	Y
2	IC 410-531506/13	4.0	4.275673	50.0	530396.0	1.068918	Y
3	IC 410-531506/14	10.0	11.260303	50.0	540243.0	1.12603	Y
4	IC 410-531506/15	20.0	22.79018	50.0	537374.0	1.139509	Y
5	ICIS 410-531506/16	50.0	54.163527	50.0	546736.0	1.083271	Y
6	IC 410-531506/17	100.0	116.227273	50.0	544956.0	1.162273	Y
7	IC 410-531506/18	300.0	326.665863	50.0	555478.0	1.088886	Y



10/04/2024

Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

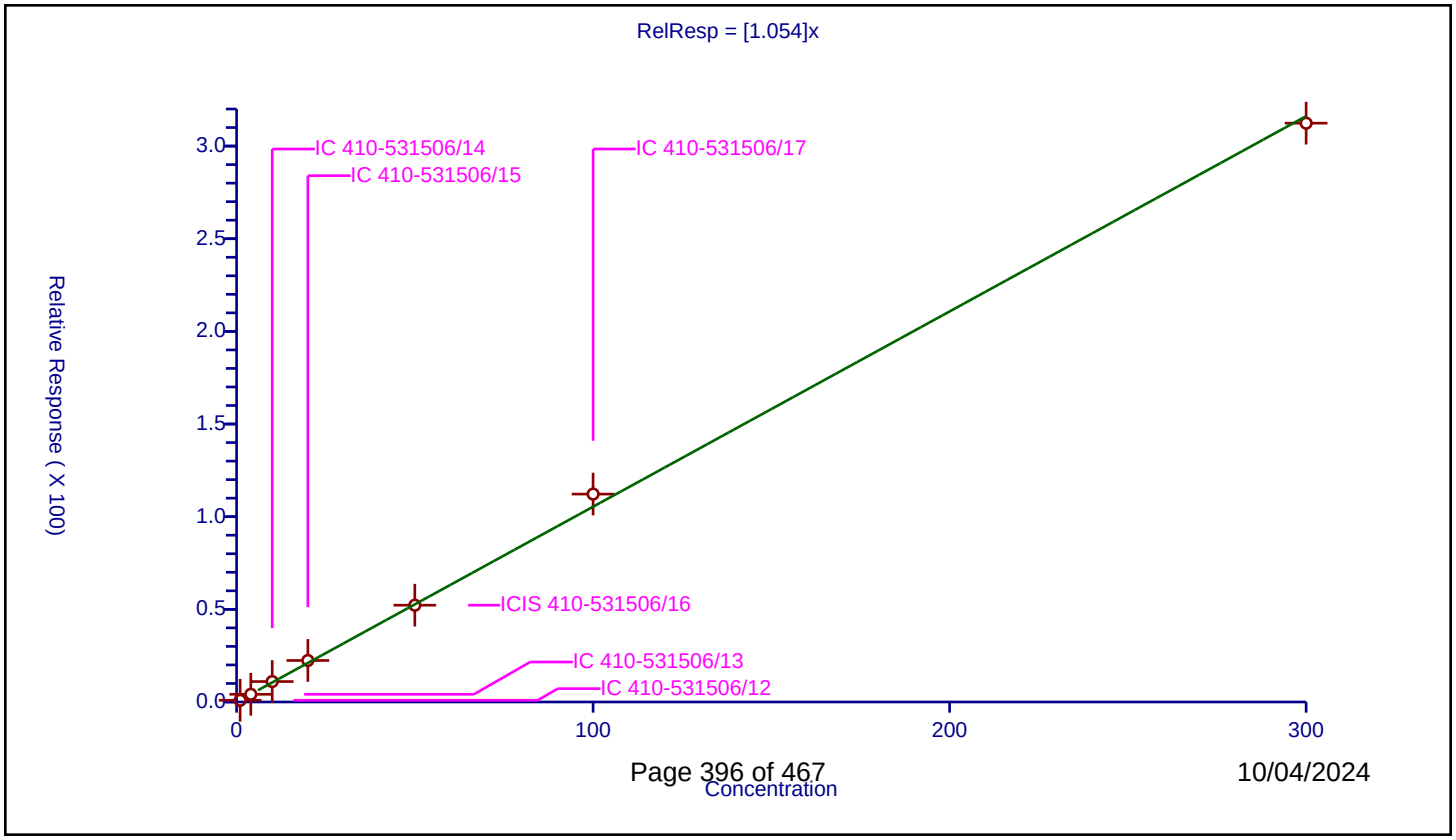
Curve Coefficients

Intercept:	0
Slope:	1.054

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.906677	50.0	557861.0	0.906677	Y
2	IC 410-531506/13	4.0	4.153783	50.0	530396.0	1.038446	Y
3	IC 410-531506/14	10.0	11.037255	50.0	540243.0	1.103726	Y
4	IC 410-531506/15	20.0	22.399576	50.0	537374.0	1.119979	Y
5	ICIS 410-531506/16	50.0	52.227583	50.0	546736.0	1.044552	Y
6	IC 410-531506/17	100.0	112.197866	50.0	544956.0	1.121979	Y
7	IC 410-531506/18	300.0	312.352154	50.0	555478.0	1.041174	Y



Calibration / 2-Ethylhexyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

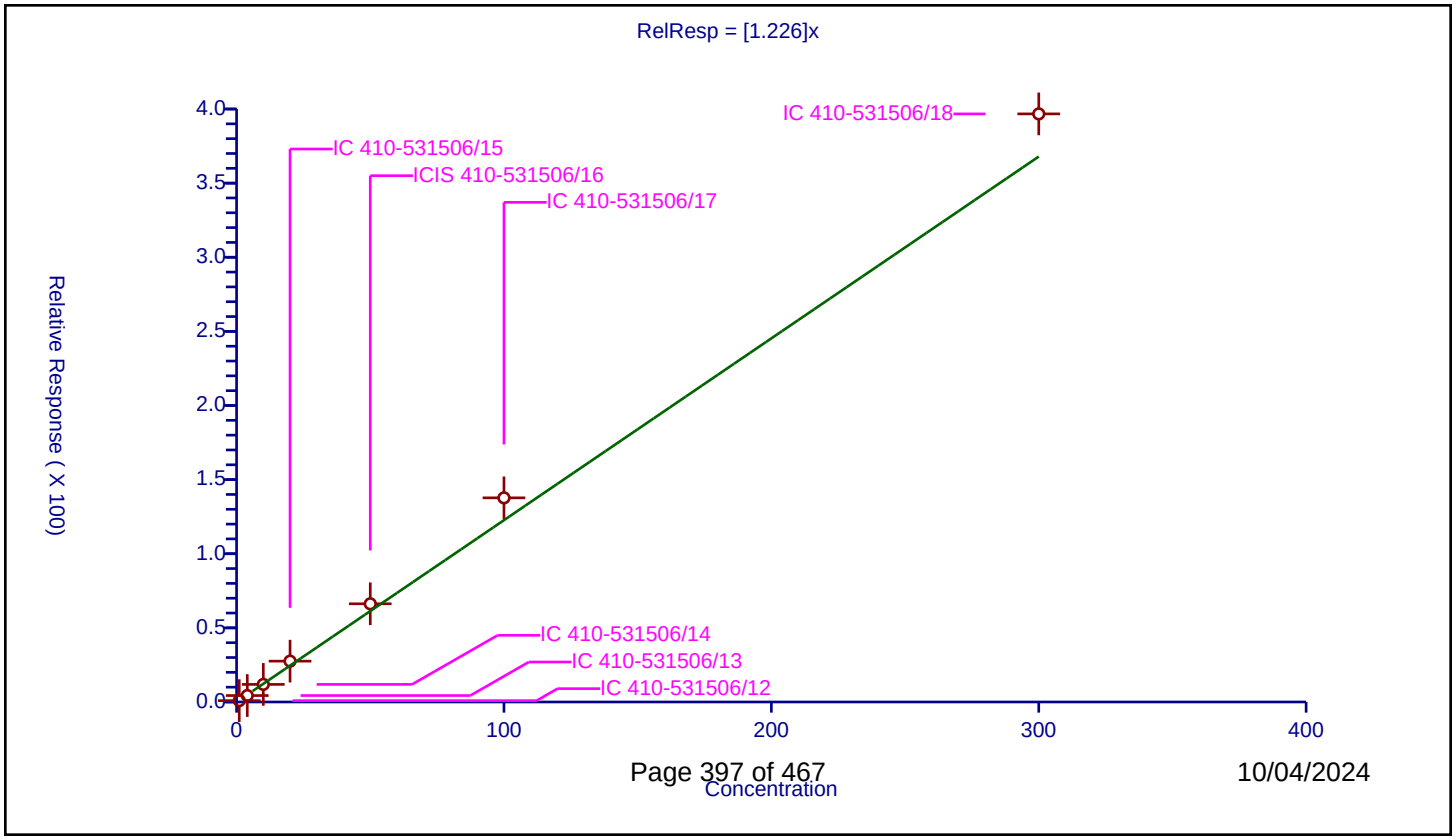
Curve Coefficients

Intercept:	0
Slope:	1.226

Error Coefficients

Relative Standard Deviation:	14.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.00005	0.91331	50.0	557861.0	0.913264	Y
2	IC 410-531506/13	4.0002	4.336854	50.0	530396.0	1.084159	Y
3	IC 410-531506/14	10.0005	11.861329	50.0	540243.0	1.186074	Y
4	IC 410-531506/15	20.001	27.54134	50.0	537374.0	1.376998	Y
5	ICIS 410-531506/16	50.0025	66.237087	50.0	546736.0	1.324676	Y
6	IC 410-531506/17	100.005	137.70231	50.0	544956.0	1.376954	Y
7	IC 410-531506/18	300.015	396.711121	50.0	555478.0	1.322304	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

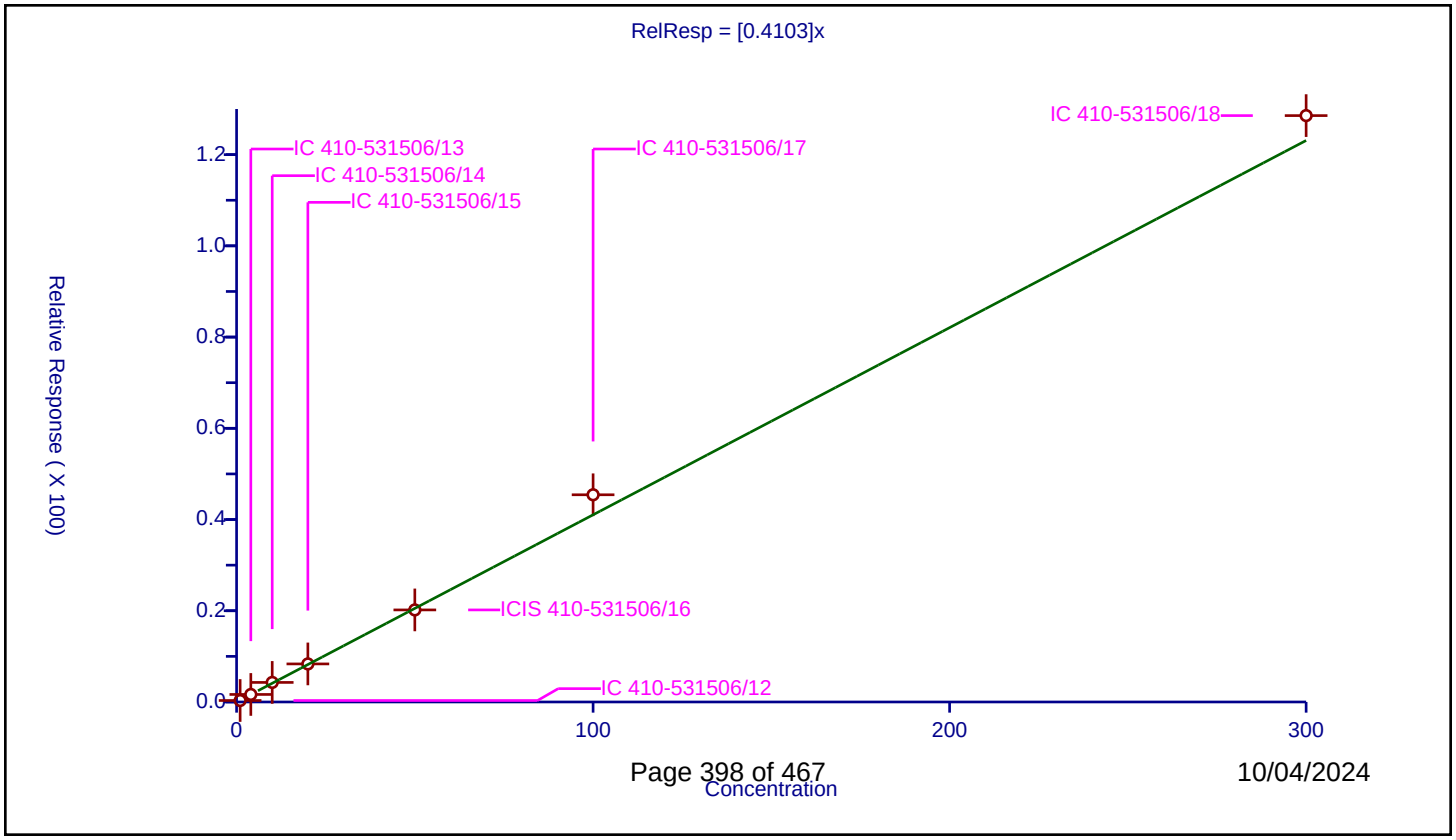
Curve Coefficients

Intercept:	0
Slope:	0.4103

Error Coefficients

Relative Standard Deviation:	9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.327232	50.0	557861.0	0.327232	Y
2	IC 410-531506/13	4.0	1.649711	50.0	530396.0	0.412428	Y
3	IC 410-531506/14	10.0	4.290292	50.0	540243.0	0.429029	Y
4	IC 410-531506/15	20.0	8.344189	50.0	537374.0	0.417209	Y
5	ICIS 410-531506/16	50.0	20.183873	50.0	546736.0	0.403677	Y
6	IC 410-531506/17	100.0	45.431007	50.0	544956.0	0.45431	Y
7	IC 410-531506/18	300.0	128.558737	50.0	555478.0	0.428529	Y



10/04/2024

Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

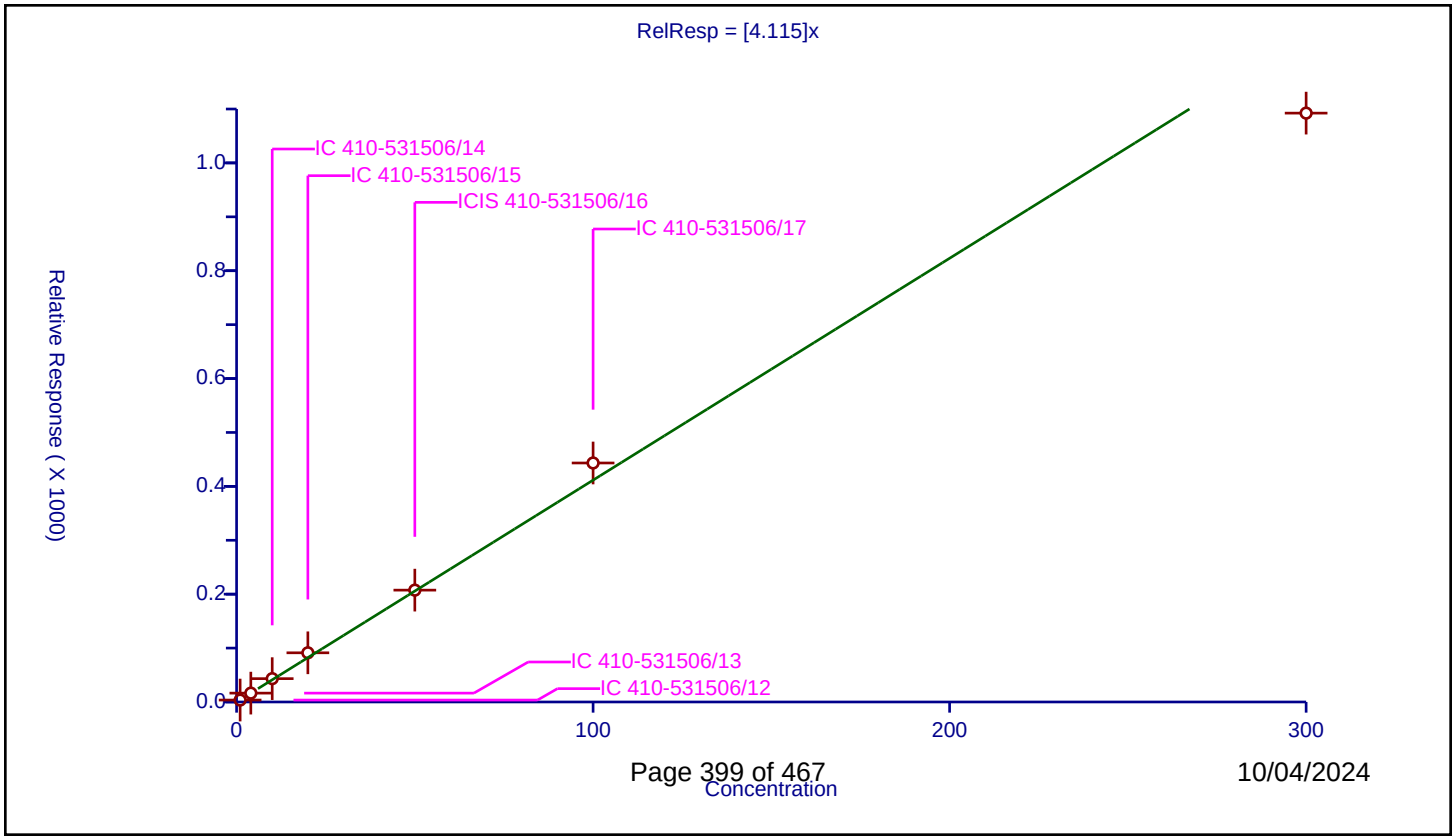
Curve Coefficients

Intercept:	0
Slope:	4.115

Error Coefficients

Relative Standard Deviation:	9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	3.584226	50.0	557861.0	3.584226	Y
2	IC 410-531506/13	4.0	16.439132	50.0	530396.0	4.109783	Y
3	IC 410-531506/14	10.0	43.284874	50.0	540243.0	4.328487	Y
4	IC 410-531506/15	20.0	91.22064	50.0	537374.0	4.561032	Y
5	ICIS 410-531506/16	50.0	207.471705	50.0	546736.0	4.149434	Y
6	IC 410-531506/17	100.0	443.378273	50.0	544956.0	4.433783	Y
7	IC 410-531506/18	300.0	1092.395738	50.0	555478.0	3.641319	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

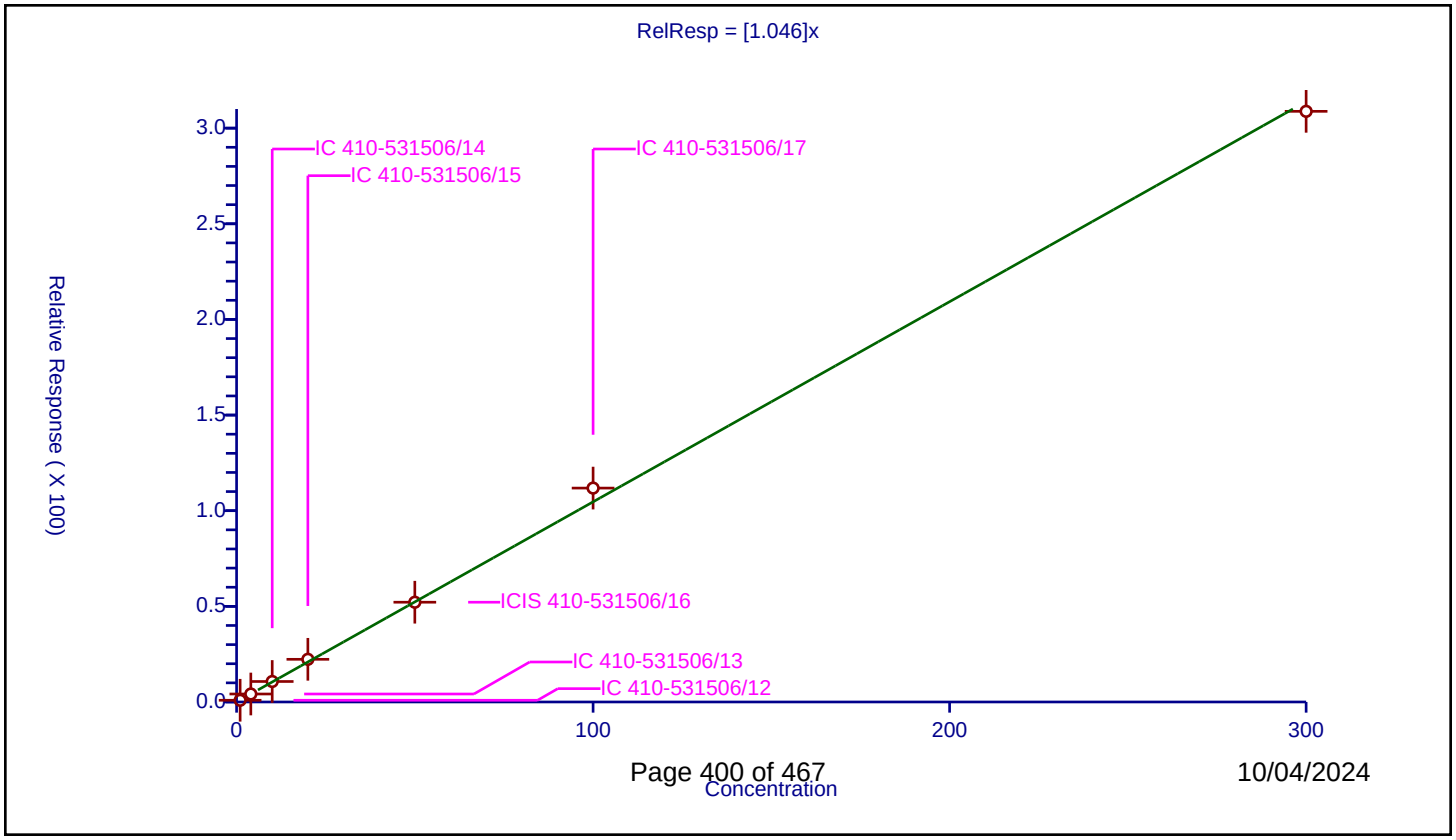
Curve Coefficients

Intercept:	0
Slope:	1.046

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	0.900583	50.0	557861.0	0.900583	Y
2	IC 410-531506/13	4.0	4.179896	50.0	530396.0	1.044974	Y
3	IC 410-531506/14	10.0	10.719991	50.0	540243.0	1.071999	Y
4	IC 410-531506/15	20.0	22.315743	50.0	537374.0	1.115787	Y
5	ICIS 410-531506/16	50.0	52.153324	50.0	546736.0	1.043066	Y
6	IC 410-531506/17	100.0	111.829304	50.0	544956.0	1.118293	Y
7	IC 410-531506/18	300.0	308.786757	50.0	555478.0	1.029289	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

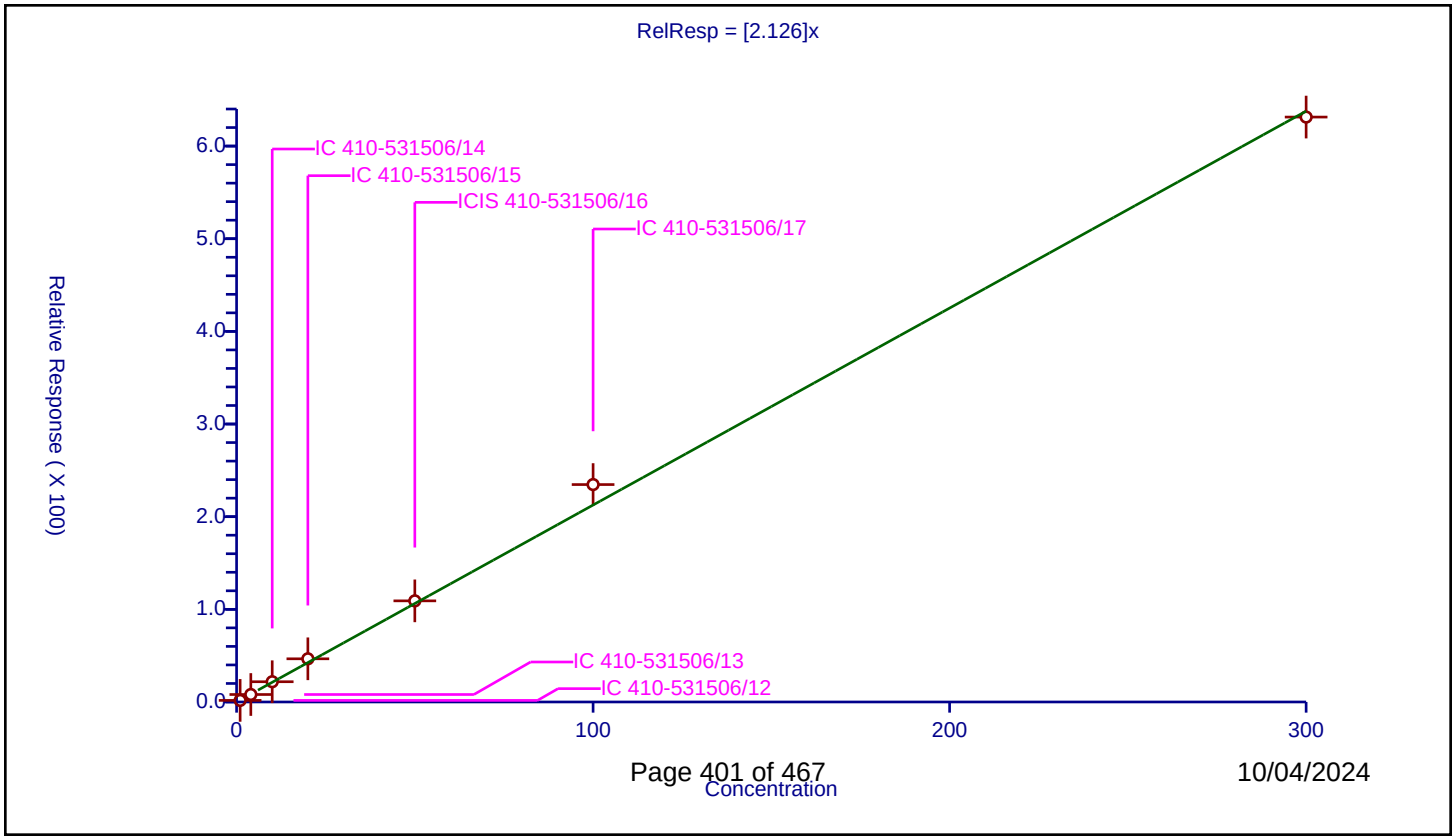
Curve Coefficients

Intercept:	0
Slope:	2.126

Error Coefficients

Relative Standard Deviation:	10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-531506/12	1.0	1.708938	50.0	557861.0	1.708938	Y
2	IC 410-531506/13	4.0	8.075664	50.0	530396.0	2.018916	Y
3	IC 410-531506/14	10.0	21.873305	50.0	540243.0	2.187331	Y
4	IC 410-531506/15	20.0	46.608228	50.0	537374.0	2.330411	Y
5	ICIS 410-531506/16	50.0	109.14381	50.0	546736.0	2.182876	Y
6	IC 410-531506/17	100.0	234.673166	50.0	544956.0	2.346732	Y
7	IC 410-531506/18	300.0	631.308981	50.0	555478.0	2.104363	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Lab Sample ID: ICV 410-531506/20 Calibration Date: 07/23/2024 22:53

Instrument ID: 26285 Calib Start Date: 07/23/2024 20:11

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/23/2024 22:12

Lab File ID: 5L23X14.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	0.4669	0.4709	0.1000	20.2	20.0	0.9	30.0
Chloromethane	Ave	0.6053	0.5819	0.1000	19.2	20.0	-3.9	30.0
Vinyl chloride	Ave	0.4901	0.4925	0.1000	20.1	20.0	0.5	30.0
1,3-Butadiene	Ave	0.5698	0.4890		17.2	20.0	-14.2	30.0
Bromomethane	Ave	0.3260	0.2980	0.1000	18.3	20.0	-8.6	30.0
Chloroethane	Ave	0.2743	0.2651	0.1000	19.3	20.0	-3.4	30.0
Dichlorofluoromethane	Ave	0.8685	0.7622		17.6	20.0	-12.2	30.0
n-Pentane	Ave	0.3932	0.3643		18.5	20.0	-7.4	30.0
Trichlorofluoromethane	Ave	0.5605	0.5330	0.1000	19.0	20.0	-4.9	30.0
Ethyl ether	Ave	0.2074	0.2864		27.5	19.9	38.1*	30.0
Freon 123a	Ave	0.4464	0.4368		19.6	20.0	-2.1	30.0
Acrolein	Ave	1.751	1.813		156	150	3.6	30.0
1,1-Dichloroethene	Ave	0.2623	0.2848	0.1000	21.7	20.0	8.6	30.0
Acetone	Ave	0.7862	0.7606	0.1000	242	250	-3.3	30.0
Freon 113	Ave	0.3031	0.2577	0.1000	17.0	20.0	-15.0	30.0
2-Propanol	Ave	0.7260	0.6251		129	150	-13.9	30.0
Methyl iodide	Ave	0.5274	0.4992		18.9	20.0	-5.3	30.0
Carbon disulfide	Ave	0.8779	0.8279	0.1000	18.9	20.0	-5.7	30.0
Methyl acetate	Ave	0.4386	0.4942	0.1000	22.5	20.0	12.7	30.0
Allyl chloride	Ave	0.5838	0.5110		17.5	20.0	-12.5	30.0
Methylene Chloride	Ave	0.3424	0.3453	0.1000	20.2	20.0	0.9	30.0
t-Butyl alcohol	Ave	1.332	1.204		181	200	-9.6	30.0
Acrylonitrile	Ave	0.2302	0.2263		98.3	100	-1.7	30.0
trans-1,2-Dichloroethene	Ave	0.2947	0.3035	0.1000	20.6	20.0	3.0	30.0
Methyl tert-butyl ether	Ave	1.014	0.9392	0.1000	18.5	20.0	-7.4	30.0
n-Hexane	Ave	0.3881	0.3608		18.6	20.0	-7.0	30.0
1,1-Dichloroethane	Ave	0.5901	0.6135	0.2000	20.8	20.0	4.0	30.0
Isopropyl ether	Ave	1.137	1.077		19.0	20.0	-5.2	30.0
2-Chloro-1,3-butadiene	Ave	0.5072	0.4919		19.4	20.0	-3.0	30.0
Ethyl t-butyl ether	Ave	1.045	1.029		19.7	20.0	-1.6	30.0
2-Butanone (MEK)	Ave	0.3202	0.2831	0.1000	221	250	-11.6	30.0
cis-1,2-Dichloroethene	Ave	0.3429	0.3377	0.1000	19.7	20.0	-1.5	30.0
2,2-Dichloropropane	Ave	0.4853	0.4831		19.9	20.0	-0.5	30.0
Propionitrile	Ave	1.279	1.333		156	150	4.2	30.0
Methyl acrylate	Ave	0.5442	0.5486		20.1	20.0	0.8	30.0
Methacrylonitrile	Ave	0.2066	0.2005		146	150	-3.0	30.0
Bromochloromethane	Ave	0.1630	0.1598		19.6	20.0	-1.9	30.0
Tetrahydrofuran	Ave	1.120	1.139		102	100	1.7	30.0
Chloroform	Ave	0.5724	0.5687	0.2000	19.9	20.0	-0.7	30.0
1,1,1-Trichloroethane	Ave	0.4794	0.4922	0.1000	20.5	20.0	2.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Lab Sample ID: ICV 410-531506/20 Calibration Date: 07/23/2024 22:53

Instrument ID: 26285 Calib Start Date: 07/23/2024 20:11

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/23/2024 22:12

Lab File ID: 5L23X14.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	0.5772	0.5369	0.1000	18.6	20.0	-7.0	30.0
1,1-Dichloropropene	Ave	0.4415	0.4269		19.3	20.0	-3.3	30.0
Carbon tetrachloride	Ave	0.3978	0.4024	0.1000	20.2	20.0	1.1	30.0
Isobutyl alcohol	Ave	0.4205	0.3725		443	500	-11.4	30.0
Benzene	Ave	1.287	1.259	0.5000	19.6	20.0	-2.2	30.0
1,2-Dichloroethane	Ave	0.4602	0.4575	0.1000	19.9	20.0	-0.6	30.0
t-Amyl methyl ether	Ave	0.9778	0.9412		19.3	20.0	-3.7	30.0
n-Heptane	Ave	0.3979	0.3585		18.0	20.0	-9.9	30.0
n-Butanol	Ave	0.2786	0.2698		969	1000	-3.1	30.0
Trichloroethene	Ave	0.3256	0.3292	0.2000	20.2	20.0	1.1	30.0
Ethyl acrylate	Ave	0.4364	0.3946		18.1	20.0	-9.6	30.0
Methylcyclohexane	Ave	0.4992	0.4661	0.1000	18.7	20.0	-6.6	30.0
1,2-Dichloropropane	Ave	0.3464	0.3423	0.1000	19.8	20.0	-1.2	30.0
t-Amyl ethyl ether	Ave	0.4498	0.4182		18.6	20.0	-7.0	30.0
1,4-Dioxane	Lin		0.0656	0.0050	474	500	-5.1	30.0
Dibromomethane	Ave	0.2178	0.2143		19.7	20.0	-1.6	30.0
Methyl methacrylate	Ave	0.2909	0.2731		18.8	20.0	-6.1	30.0
Bromodichloromethane	Ave	0.4083	0.4038	0.2000	19.8	20.0	-1.1	30.0
2-Nitropropane	Ave	2.127	2.045		19.2	20.0	-3.9	30.0
2-Chloroethyl vinyl ether	Ave	0.2480	0.2354		19.0	20.0	-5.1	30.0
cis-1,3-Dichloropropene	Ave	0.5143	0.4821	0.2000	18.7	20.0	-6.3	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6118	0.6109	0.1000	250	250	-0.1	30.0
Toluene	Ave	1.036	1.042	0.4000	20.1	20.0	0.5	30.0
trans-1,3-Dichloropropene	Ave	0.6391	0.6186	0.1000	19.4	20.0	-3.2	30.0
Ethyl methacrylate	Ave	0.6941	0.6678		19.2	20.0	-3.8	30.0
1,1,2-Trichloroethane	Ave	0.3809	0.3785	0.1000	19.9	20.0	-0.6	30.0
Tetrachloroethene	Ave	0.4312	0.4402	0.2000	20.4	20.0	2.1	30.0
1,3-Dichloropropane	Ave	0.6454	0.6315		19.6	20.0	-2.1	30.0
2-Hexanone	Ave	0.5959	0.5909	0.1000	248	250	-0.8	30.0
Dibromochloromethane	Ave	0.4183	0.4070		19.5	20.0	-2.7	30.0
Ethylene Dibromide	Ave	0.4137	0.3989	0.1000	19.3	20.0	-3.6	30.0
Chlorobenzene	Ave	1.129	1.128	0.5000	20.0	20.0	-0.1	30.0
1-Chlorohexane	Ave	0.5399	0.5151		19.1	20.0	-4.6	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4182	0.4198		20.1	20.0	0.4	30.0
Ethylbenzene	Ave	2.104	2.122	0.1000	20.2	20.0	0.9	30.0
m&p-Xylene	Ave	0.7862	0.7841	0.1000	39.9	40.0	-0.3	30.0
n-Butyl acrylate	Ave	1.118	1.143		20.4	20.0	2.2	30.0
o-Xylene	Ave	0.7978	0.8042	0.3000	20.2	20.0	0.8	30.0
Styrene	Ave	1.269	1.295	0.3000	20.4	20.0	2.0	30.0
Bromoform	Ave	0.3323	0.3181	0.1000	19.1	20.0	-4.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Lab Sample ID: ICV 410-531506/20 Calibration Date: 07/23/2024 22:53

Instrument ID: 26285 Calib Start Date: 07/23/2024 20:11

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/23/2024 22:12

Lab File ID: 5L23X14.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	1.839	2.129	0.1000	23.2	20.0	15.8	30.0
Cyclohexanone	Ave	0.2818	0.2864		508	500	1.6	30.0
Bromobenzene	Ave	0.8745	0.8613		19.7	20.0	-1.5	30.0
1,1,2,2-Tetrachloroethane	Ave	1.309	1.287	0.3000	19.7	20.0	-1.7	30.0
trans-1,4-Dichloro-2-butene	Ave	0.4044	0.3971		98.2	100	-1.8	30.0
1,2,3-Trichloropropane	Ave	0.3501	0.3277		18.7	20.0	-6.4	30.0
N-Propylbenzene	Ave	4.302	4.420		20.5	20.0	2.7	30.0
2-Chlorotoluene	Ave	0.8467	0.8390		19.8	20.0	-0.9	30.0
1,3,5-Trimethylbenzene	Ave	2.936	3.034		20.7	20.0	3.3	30.0
4-Chlorotoluene	Ave	0.8260	0.8143		19.7	20.0	-1.4	30.0
tert-Butylbenzene	Ave	0.5040	0.5065		20.1	20.0	0.5	30.0
1,2,4-Trimethylbenzene	Ave	3.043	3.037		20.0	20.0	-0.2	30.0
sec-Butylbenzene	Ave	3.513	3.622		20.6	20.0	3.1	30.0
1,3-Dichlorobenzene	Ave	1.595	1.601	0.6000	20.1	20.0	0.4	30.0
p-Isopropyltoluene	Ave	2.997	3.023		20.2	20.0	0.9	30.0
1,4-Dichlorobenzene	Ave	1.622	1.598	0.5000	19.7	20.0	-1.5	30.0
1,2,3-Trimethylbenzene	Ave	3.106	3.022		19.5	20.0	-2.7	30.0
Benzyl chloride	Ave	2.473	2.340		18.9	20.0	-5.4	30.0
1,3-Diethylbenzene	Ave	1.728	1.776		20.6	20.0	2.8	30.0
1,4-Diethylbenzene	Ave	1.793	1.853		20.7	20.0	3.4	30.0
n-Butylbenzene	Ave	1.519	1.549		20.4	20.0	2.0	30.0
1,2-Dichlorobenzene	Ave	1.612	1.609	0.4000	20.0	20.0	-0.2	30.0
1,2-Diethylbenzene	Ave	1.420	1.417		20.0	20.0	-0.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.3552	0.3258	0.0500	18.3	20.0	-8.3	30.0
1,3,5-Trichlorobenzene	Ave	1.086	1.120		20.6	20.0	3.2	30.0
1,2,4-Trichlorobenzene	Ave	1.054	1.094	0.2000	20.8	20.0	3.8	30.0
2-Ethylhexyl acrylate	Ave	1.226	1.250		20.4	20.0	2.0	30.0
Hexachlorobutadiene	Ave	0.4103	0.4131		20.1	20.0	0.7	30.0
Naphthalene	Ave	4.115	4.200		20.4	20.0	2.1	30.0
1,2,3-Trichlorobenzene	Ave	1.046	1.061		20.3	20.0	1.4	30.0
2-Methylnaphthalene	Ave	2.126	2.221		20.9	20.0	4.5	30.0
Dibromofluoromethane (Surr)	Ave	0.2631	0.2632		50.0	50.0	0.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0577	0.0574		49.8	50.0	-0.5	30.0
Toluene-d8 (Surr)	Ave	1.314	1.317		50.1	50.0	0.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5300	0.5301		50.0	50.0	0.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X14.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 23-Jul-2024 22:53:30 ALS Bottle#: 14 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0120132-020
Misc. Info.: ICV
Operator ID: gaw91131 Instrument ID: 26285
Sublist:

Method: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 24-Jul-2024 14:42:44 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1614

First Level Reviewer: ULCP Date: 24-Jul-2024 14:40:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.512	1.519	-0.007	99	248436	20.0	20.2	
4 Chloromethane	50	1.665	1.665	0.000	99	307013	20.0	19.2	
5 Vinyl chloride	62	1.744	1.750	-0.006	98	259820	20.0	20.1	
6 Butadiene	39	1.768	1.775	-0.007	96	257972	20.0	17.2	
8 Bromomethane	94	2.006	2.012	-0.006	91	157223	20.0	18.3	M
9 Chloroethane	64	2.030	2.037	-0.007	99	139863	20.0	19.3	
10 Dichlorofluoromethane	67	2.256	2.256	0.000	97	402141	20.0	17.6	
12 Pentane	43	2.268	2.275	-0.007	96	192195	20.0	18.5	
11 Trichlorofluoromethane	101	2.293	2.305	-0.012	97	281198	20.0	19.0	
14 Ethyl ether	59	2.427	2.427	0.000	96	150669	19.9	27.5	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.518	2.518	0.000	95	230474	20.0	19.6	
16 Acrolein	56	2.555	2.555	0.000	99	483504	150.3	155.7	
17 1,1-Dichloroethene	96	2.664	2.677	-0.013	51	150273	20.0	21.7	
18 Acetone	58	2.689	2.683	0.006	100	337371	250.0	241.9	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.707	2.713	-0.006	94	135940	20.0	17.0	
21 Isopropyl alcohol	45	2.817	2.823	-0.006	95	166356	150.0	129.1	
20 Iodomethane	142	2.829	2.835	-0.006	99	263397	20.0	18.9	
22 Carbon disulfide	76	2.945	2.951	-0.006	100	436786	20.0	18.9	M
24 Methyl acetate	43	2.988	2.994	-0.006	99	260713	20.0	22.5	
25 3-Chloro-1-propene	41	3.012	3.012	0.000	91	269574	20.0	17.5	
26 Methylene Chloride	84	3.164	3.177	-0.013	98	182194	20.0	20.2	
* 27 t-Butyl alcohol-d10 (IS)	65	3.207	3.189	0.018	98	443567	250.0	250.0	
29 2-Methyl-2-propanol	59	3.286	3.280	0.006	99	427231	200.0	180.8	
30 Acrylonitrile	53	3.396	3.402	-0.006	98	596838	100.0	98.3	
31 trans-1,2-Dichloroethene	96	3.463	3.463	0.000	95	160130	20.0	20.6	
32 Methyl tert-butyl ether	73	3.469	3.476	-0.007	96	495526	20.0	18.5	
33 Hexane	57	3.817	3.817	0.000	95	190348	20.0	18.6	
34 1,1-Dichloroethane	63	4.018	4.018	0.000	96	323680	20.0	20.8	
36 Isopropyl ether	45	4.097	4.091	0.006	97	568263	20.0	19.0	
37 2-Chloro-1,3-butadiene	53	4.122	4.122	0.000	93	259513	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	4.646	4.652	-0.006	99	542706	20.0	19.7	
39 2-Butanone (MEK)	43	4.859	4.865	-0.006	99	1867243	250.0	221.1	
40 cis-1,2-Dichloroethene	96	4.877	4.884	-0.007	86	178152	20.0	19.7	
41 2,2-Dichloropropane	77	4.902	4.902	0.000	89	254876	20.0	19.9	
43 Propionitrile	54	4.945	4.951	-0.006	96	354868	150.0	156.4	
44 Methyl acrylate	55	4.999	5.006	-0.007	99	289168	20.0	20.1	
45 Methacrylonitrile	67	5.170	5.170	0.000	95	793345	150.0	145.6	
46 Chlorobromomethane	128	5.225	5.225	0.000	94	84332	20.0	19.6	
47 Tetrahydrofuran	71	5.243	5.243	0.000	81	202156	100.0	101.7	
48 Chloroform	83	5.396	5.402	-0.006	94	300017	20.0	19.9	
$ 49 Dibromofluoromethane (Surr)	113	5.627	5.628	-0.001	93	347208	50.0	50.0	
50 1,1,1-Trichloroethane	97	5.627	5.634	-0.007	98	259690	20.0	20.5	
51 Cyclohexane	56	5.731	5.737	-0.006	96	283262	20.0	18.6	
52 Carbon tetrachloride	117	5.853	5.853	0.000	76	212284	20.0	20.2	
53 1,1-Dichloropropene	75	5.853	5.859	-0.006	93	225213	20.0	19.3	
55 Isobutyl alcohol	41	6.085	6.085	0.000	91	330460	500.0	443.0	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.097	6.097	0.000	85	75771	50.0	49.8	
57 Benzene	78	6.127	6.134	-0.007	97	664359	20.0	19.6	
58 1,2-Dichloroethane	62	6.206	6.213	-0.007	97	241367	20.0	19.9	
60 Tert-amyl methyl ether	73	6.359	6.359	0.000	98	496564	20.0	19.3	
* 61 Fluorobenzene (IS)	96	6.566	6.572	-0.006	99	1318978	50.0	50.0	
62 n-Heptane	43	6.609	6.609	0.000	97	189116	20.0	18.0	
63 n-Butanol	56	7.029	7.030	-0.001	93	478757	1000.0	968.6	
64 Trichloroethene	95	7.078	7.078	0.000	96	173701	20.0	20.2	
66 Methylcyclohexane	83	7.395	7.395	0.000	92	245909	20.0	18.7	
65 Ethyl acrylate	55	7.389	7.402	-0.013	80	208171	20.0	18.1	
67 1,2-Dichloropropane	63	7.426	7.420	0.006	98	180605	20.0	19.8	
68 2-ethoxy-2-methyl butane	87	7.468	7.475	-0.007	90	220614	20.0	18.6	
69 1,4-Dioxane	88	7.535	7.536	-0.001	78	58205	500.0	474.5	M
70 Dibromomethane	93	7.542	7.536	0.006	96	113089	20.0	19.7	
71 Methyl methacrylate	69	7.554	7.560	-0.006	93	144088	20.0	18.8	
74 Dichlorobromomethane	83	7.804	7.804	0.000	99	213044	20.0	19.8	
75 2-Nitropropane	41	8.090	8.090	0.000	99	72554	20.0	19.2	
76 2-Chloroethyl vinyl ether	63	8.212	8.212	0.000	92	124182	20.0	19.0	
77 cis-1,3-Dichloropropene	75	8.395	8.395	0.000	94	254334	20.0	18.7	
78 4-Methyl-2-pentanone (MIBK)	43	8.608	8.609	-0.001	98	4028627	250.0	249.6	
$ 79 Toluene-d8 (Surr)	98	8.743	8.743	0.000	94	1246223	50.0	50.1	
80 Toluene	92	8.828	8.828	0.000	97	394340	20.0	20.1	
84 trans-1,3-Dichloropropene	75	9.163	9.163	0.000	96	234214	20.0	19.4	
85 Ethyl methacrylate	69	9.267	9.267	0.000	91	252849	20.0	19.2	
86 1,1,2-Trichloroethane	97	9.401	9.401	0.000	92	143301	20.0	19.9	
87 Tetrachloroethene	166	9.492	9.493	-0.001	96	166680	20.0	20.4	
88 1,3-Dichloropropane	76	9.584	9.584	0.000	95	239107	20.0	19.6	
90 2-Hexanone	43	9.675	9.676	-0.001	99	2796443	250.0	247.9	
91 Chlorodibromomethane	129	9.828	9.828	0.000	90	154108	20.0	19.5	
96 Ethylene Dibromide	107	9.937	9.938	-0.001	98	151022	20.0	19.3	
* 98 Chlorobenzene-d5 (IS)	117	10.437	10.438	-0.001	87	946533	50.0	50.0	
99 Chlorobenzene	112	10.468	10.468	0.000	93	426938	20.0	20.0	
100 1-Chlorohexane	91	10.474	10.474	0.000	94	195036	20.0	19.1	
128 1,1,1,2-Tetrachloroethane	131	10.565	10.566	-0.001	95	158937	20.0	20.1	
129 Ethylbenzene	91	10.578	10.578	0.000	99	803303	20.0	20.2	
130 m-Xylene & p-Xylene	106	10.706	10.706	0.000	98	593742	40.0	39.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
131 n-Butyl acrylate	55	11.041	11.041	0.000	95	431982	20.0	20.4	
132 o-Xylene	106	11.059	11.059	0.000	98	304480	20.0	20.2	
133 Styrene	104	11.077	11.078	-0.001	95	490214	20.0	20.4	
135 Bromoform	173	11.236	11.236	0.000	97	120439	20.0	19.1	
136 Isopropylbenzene	105	11.394	11.395	-0.001	96	806087	20.0	23.2	
137 Cyclohexanone	55	11.455	11.456	-0.001	94	254025	499.9	508.1	
$ 140 4-Bromofluorobenzene (Surr)	95	11.535	11.535	0.000	89	501712	50.0	50.0	
143 Bromobenzene	156	11.651	11.651	0.000	95	185077	20.0	19.7	
144 1,1,2,2-Tetrachloroethane	83	11.663	11.663	0.000	95	276532	20.0	19.7	
145 trans-1,4-Dichloro-2-butene	53	11.687	11.687	0.000	95	426670	100.0	98.2	
146 1,2,3-Trichloropropane	110	11.699	11.700	-0.001	86	70410	20.0	18.7	
147 N-Propylbenzene	91	11.748	11.748	0.000	99	949802	20.0	20.5	
148 2-Chlorotoluene	126	11.815	11.815	0.000	96	180292	20.0	19.8	
149 1,3,5-Trimethylbenzene	105	11.894	11.895	-0.001	94	651884	20.0	20.7	
150 4-Chlorotoluene	126	11.913	11.913	0.000	99	174992	20.0	19.7	
152 tert-Butylbenzene	134	12.144	12.145	-0.001	93	108837	20.0	20.1	
154 1,2,4-Trimethylbenzene	105	12.193	12.193	0.000	98	652614	20.0	20.0	
155 sec-Butylbenzene	105	12.321	12.321	0.000	95	778353	20.0	20.6	
156 1,3-Dichlorobenzene	146	12.413	12.413	0.000	98	344060	20.0	20.1	
157 4-Isopropyltoluene	119	12.437	12.437	0.000	97	649675	20.0	20.2	
* 158 1,4-Dichlorobenzene-d4	152	12.474	12.474	0.000	95	537218	50.0	50.0	
159 1,4-Dichlorobenzene	146	12.492	12.492	0.000	96	343326	20.0	19.7	
160 1,2,3-Trimethylbenzene	105	12.510	12.510	0.000	99	649323	20.0	19.5	
164 Benzyl chloride	91	12.571	12.571	0.000	99	502735	20.0	18.9	
165 1,3-Diethylbenzene	119	12.650	12.651	-0.001	95	381704	20.0	20.6	
166 p-Diethylbenzene	119	12.723	12.724	-0.001	93	398238	20.0	20.7	
167 n-Butylbenzene	92	12.742	12.742	0.000	97	332839	20.0	20.4	
168 1,2-Dichlorobenzene	146	12.760	12.760	0.000	98	345657	20.0	20.0	
169 o-diethylbenzene	119	12.797	12.797	0.000	97	304489	20.0	20.0	
170 1,2-Dibromo-3-Chloropropane	75	13.321	13.321	0.000	82	70004	20.0	18.3	
171 1,3,5-Trichlorobenzene	180	13.455	13.455	0.000	97	240720	20.0	20.6	
173 1,2,4-Trichlorobenzene	180	13.888	13.888	0.000	94	235101	20.0	20.8	
175 2-Ethylhexyl acrylate	55	13.979	13.980	-0.001	82	268877	20.0	20.4	
174 Hexachlorobutadiene	225	13.985	13.986	-0.001	62	88770	20.0	20.1	
176 Naphthalene	128	14.071	14.071	0.000	97	902559	20.0	20.4	
177 1,2,3-Trichlorobenzene	180	14.217	14.217	0.000	95	228056	20.0	20.3	
178 2-Methylnaphthalene	142	14.815	14.815	0.000	92	477193	20.0	20.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00177	Amount Added:	50.00	Units: uL	
MSV_LCS_2CEVE_00181	Amount Added:	50.00	Units: uL	
MSV_LCS_EE_00009	Amount Added:	50.00	Units: uL	
MSV_LCS_CYC_00010	Amount Added:	50.00	Units: uL	
MSV_LCS_Gases_00208	Amount Added:	50.00	Units: uL	
MSV_LCS_ACROL_00180	Amount Added:	50.00	Units: uL	
MSV_LCS_OH_Sp_00015	Amount Added:	50.00	Units: uL	
MSV_Cent_ISSS_00029	Amount Added:	5.00	Units: uL	Run Reagent

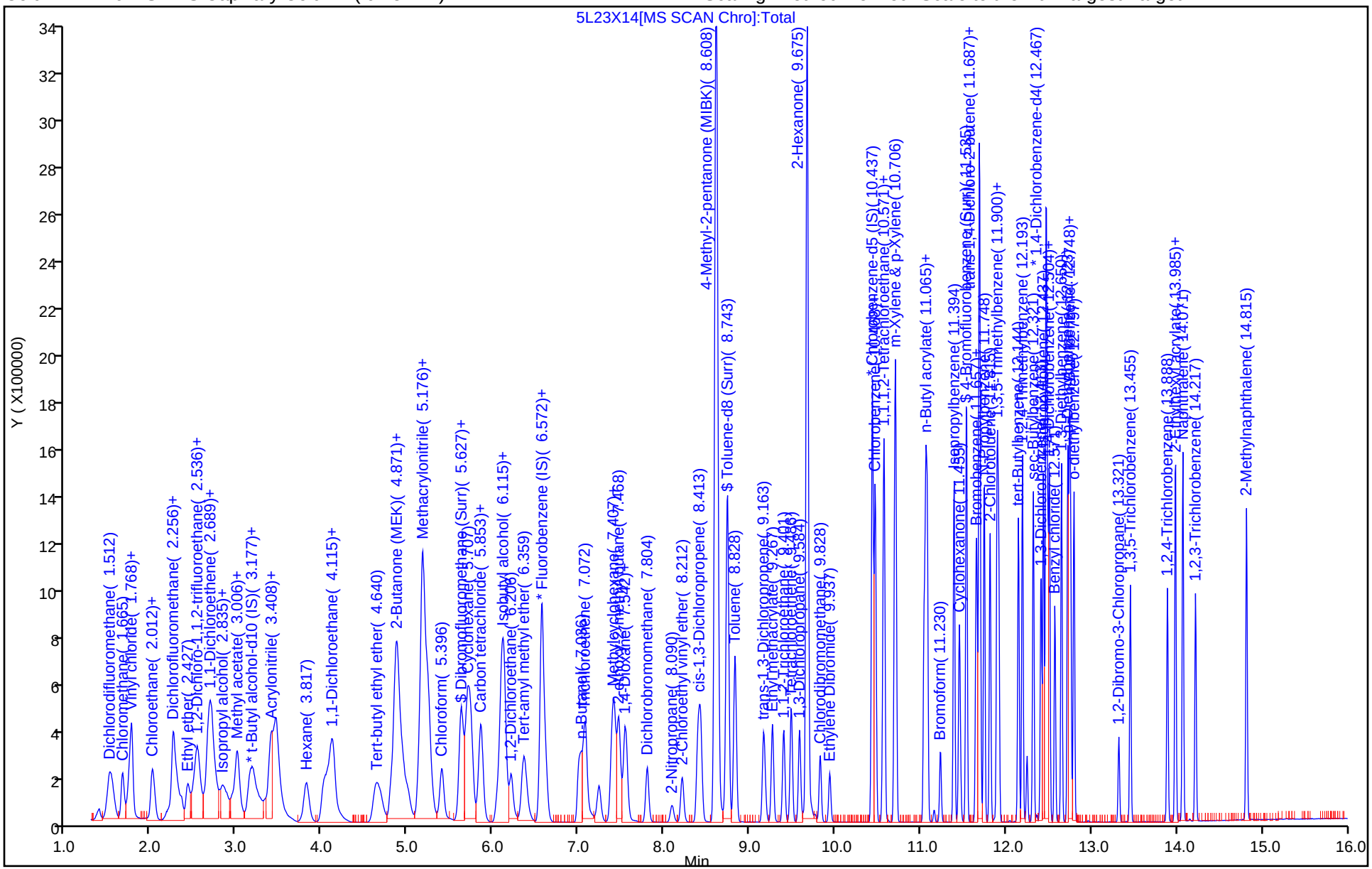
Report Date: 24-Jul-2024 14:42:48 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X14.D

Injection Date:	23-Jul-2024 22:53:30	Instrument ID:	26285	Operator ID:	gaw91131
Lims ID:	ICV			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

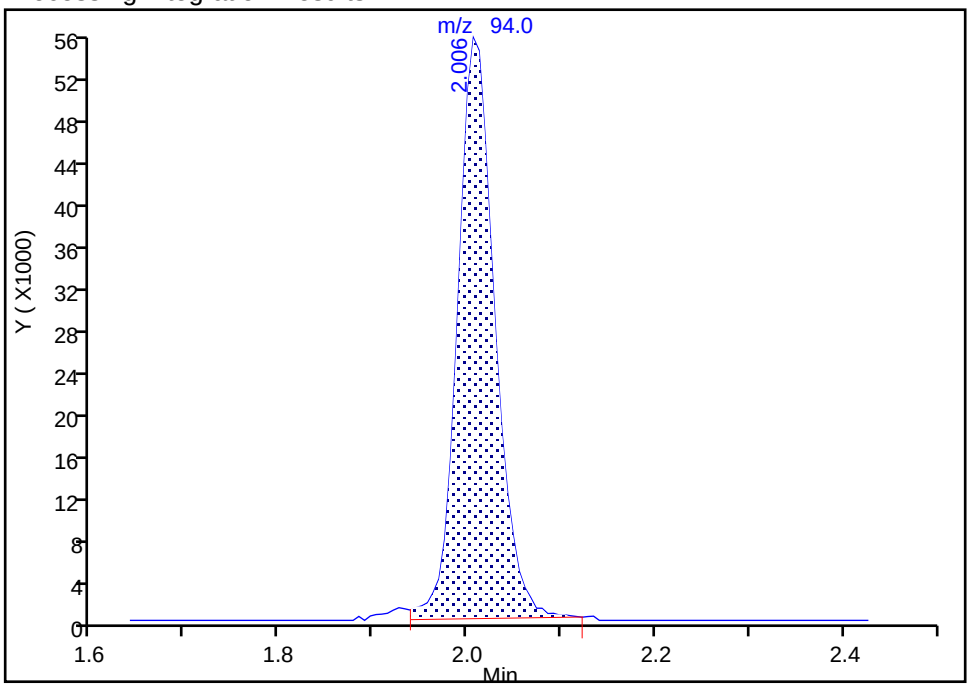
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X14.D
Injection Date: 23-Jul-2024 22:53:30 Instrument ID: 26285
Lims ID: ICV
Client ID:
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

8 Bromomethane, CAS: 74-83-9

Signal: 1

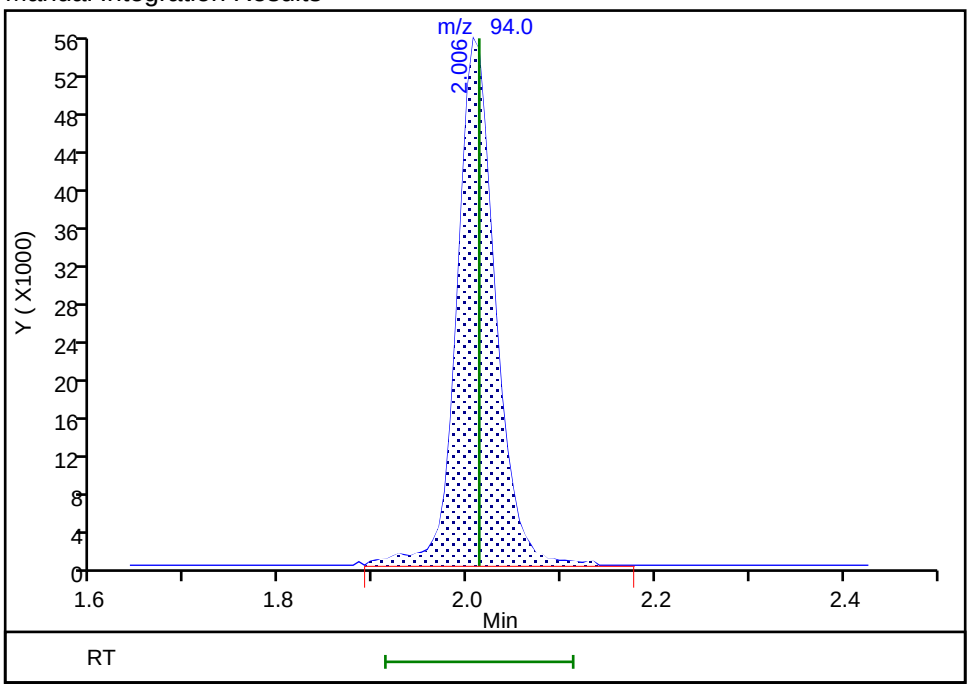
Processing Integration Results

RT: 2.01
Area: 152858
Amount: 17.776685
Amount Units: ug/l



Manual Integration Results

RT: 2.01
Area: 157223
Amount: 18.284314
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 13:50:00 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

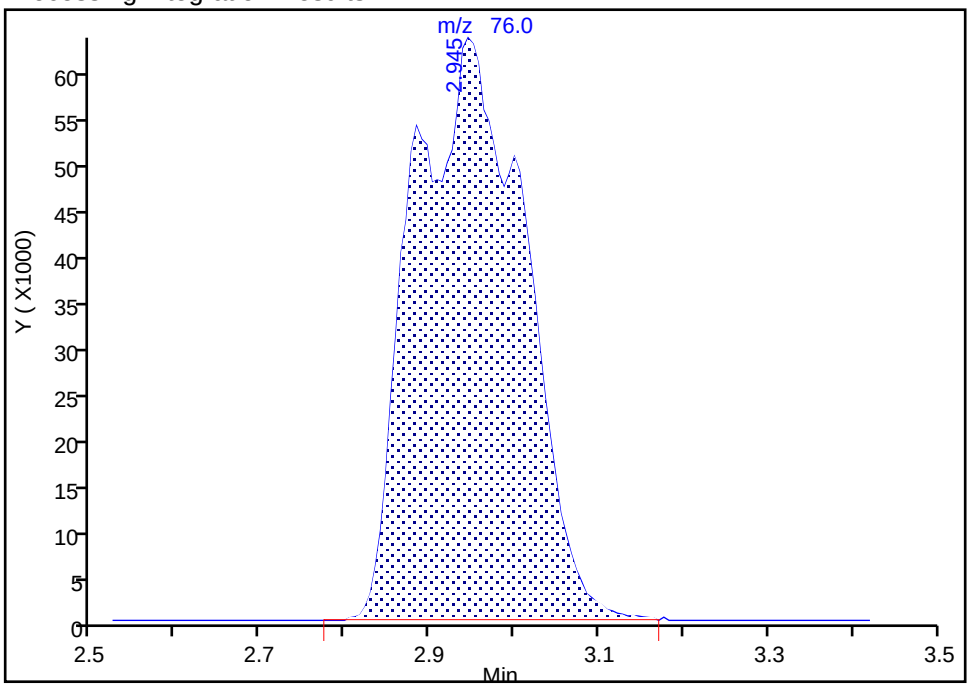
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X14.D
Injection Date: 23-Jul-2024 22:53:30 Instrument ID: 26285
Lims ID: ICV
Client ID:
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

22 Carbon disulfide, CAS: 75-15-0

Signal: 1

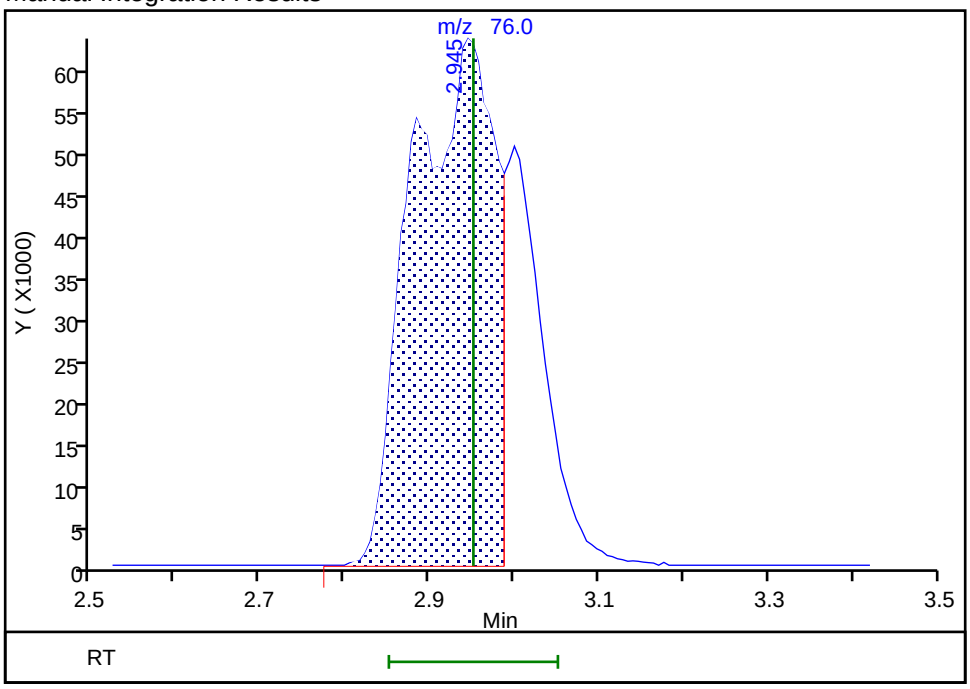
Processing Integration Results

RT: 2.94
Area: 587222
Amount: 23.938293
Amount Units: ug/l



Manual Integration Results

RT: 2.94
Area: 436786
Amount: 18.859766
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 13:50:23 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

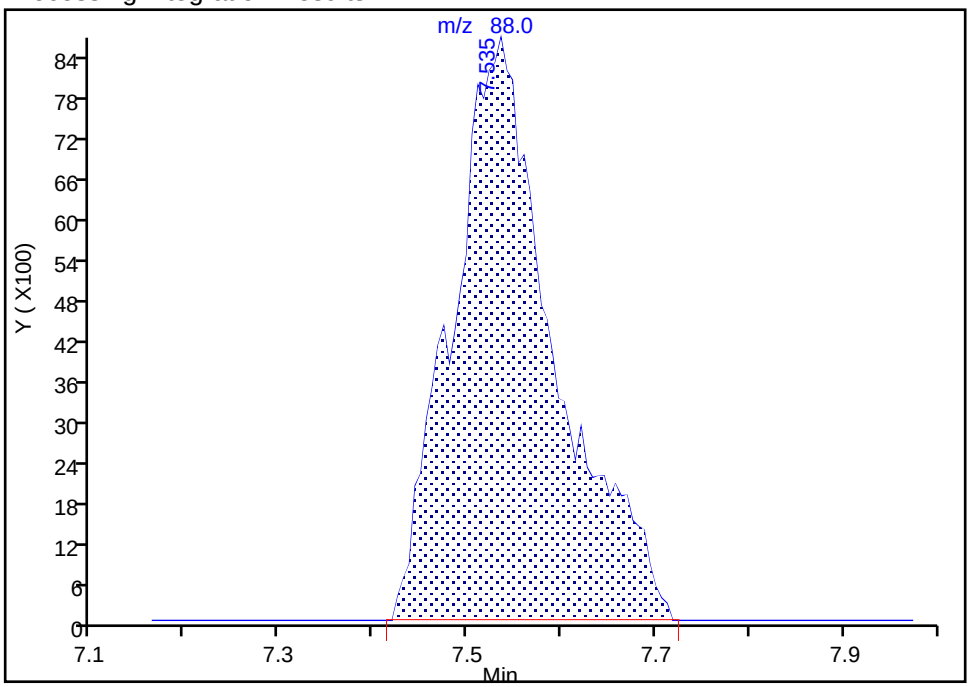
Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X14.D
Injection Date: 23-Jul-2024 22:53:30 Instrument ID: 26285
Lims ID: ICV
Client ID:
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

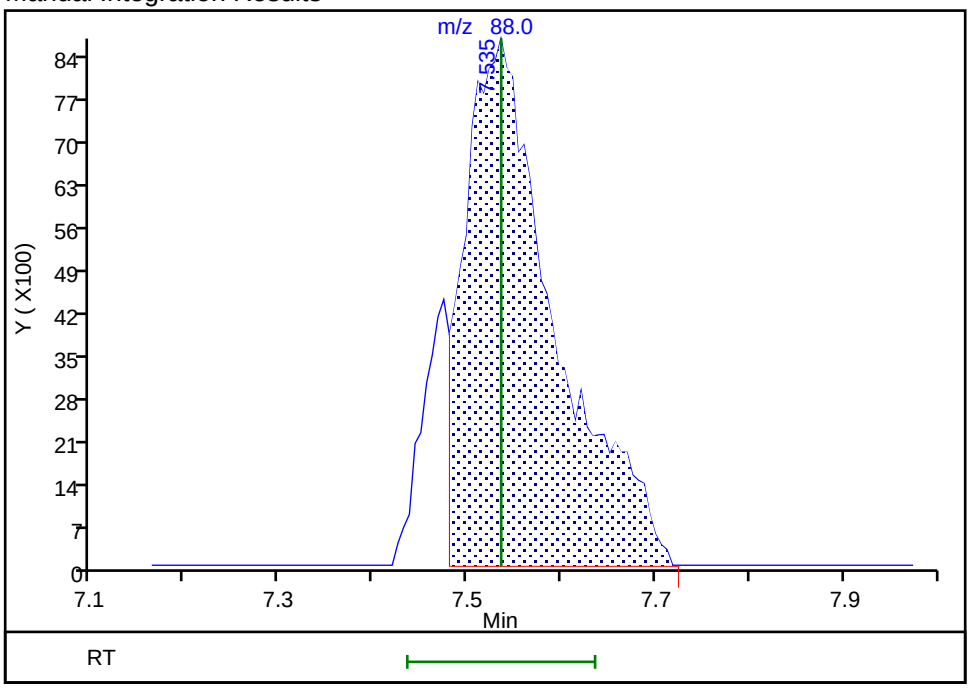
Processing Integration Results

RT: 7.54
Area: 65886
Amount: 535.7666
Amount Units: ug/l



Manual Integration Results

RT: 7.54
Area: 58205
Amount: 474.4803
Amount Units: ug/l



Reviewer: ULCP, 24-Jul-2024 13:51:50 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Lab Sample ID: CCVIS 410-558851/3 Calibration Date: 10/03/2024 10:11

Instrument ID: 26285 Calib Start Date: 07/23/2024 20:11

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/23/2024 22:12

Lab File ID: 5C03X02.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	0.4669	0.5069	0.1000	54.3	50.0	8.6	20.0
Chloromethane	Ave	0.6053	0.5423	0.1000	44.8	50.0	-10.4	20.0
1,3-Butadiene	Ave	0.5698	0.7692		67.5	50.0	35.0*	20.0
Vinyl chloride	Ave	0.4901	0.4554	0.1000	46.5	50.0	-7.1	20.0
Bromomethane	Ave	0.3260	0.3135	0.1000	48.1	50.0	-3.8	20.0
Chloroethane	Ave	0.2743	0.2529	0.1000	46.1	50.0	-7.8	20.0
Dichlorofluoromethane	Ave	0.8685	0.7847		45.2	50.0	-9.6	20.0
Trichlorofluoromethane	Ave	0.5605	0.5820	0.1000	51.9	50.0	3.8	20.0
n-Pentane	Ave	0.3932	0.5116		65.0	50.0	30.1*	20.0
Ethyl ether	Ave	0.2074	0.1686		40.6	50.0	-18.7	20.0
Freon 123a	Ave	0.4464	0.4143		46.4	50.0	-7.2	20.0
Acrolein	Ave	1.751	1.452		416	501	-17.0	20.0
Acetone	Ave	0.7862	0.6903	0.1000	87.8	100	-12.2	20.0
1,1-Dichloroethene	Ave	0.2623	0.2564	0.1000	48.9	50.0	-2.3	20.0
Freon 113	Ave	0.3031	0.3199	0.1000	52.8	50.0	5.6	20.0
2-Propanol	Ave	0.7260	0.3795		131	250	-47.7*	20.0
Methyl iodide	Ave	0.5274	0.5224		49.5	50.0	-0.9	20.0
Carbon disulfide	Ave	0.8779	0.6692	0.1000	38.1	50.0	-23.8*	20.0
Methyl acetate	Ave	0.4386	0.3945	0.1000	45.0	50.0	-10.1	20.0
Allyl chloride	Ave	0.5838	0.4906		42.0	50.0	-16.0	20.0
Methylene Chloride	Ave	0.3424	0.3097	0.1000	45.2	50.0	-9.5	20.0
t-Butyl alcohol	Ave	1.332	0.7863		148	250	-41.0*	20.0
Acrylonitrile	Ave	0.2302	0.2006		109	125	-12.8	20.0
trans-1,2-Dichloroethene	Ave	0.2947	0.2824	0.1000	47.9	50.0	-4.2	20.0
Methyl tert-butyl ether	Ave	1.014	0.8043	0.1000	39.6	50.0	-20.7*	20.0
n-Hexane	Ave	0.3881	0.3435		44.2	50.0	-11.5	20.0
1,1-Dichloroethane	Ave	0.5901	0.5372	0.2000	45.5	50.0	-9.0	20.0
Isopropyl ether	Ave	1.137	0.9073		39.9	50.0	-20.2*	20.0
2-Chloro-1,3-butadiene	Ave	0.5072	0.4445		43.8	50.0	-12.4	20.0
Ethyl t-butyl ether	Ave	1.045	0.7915		37.9	50.0	-24.3*	20.0
2-Butanone (MEK)	Ave	0.3202	0.2884	0.1000	90.1	100	-9.9	20.0
cis-1,2-Dichloroethene	Ave	0.3429	0.3109	0.1000	45.3	50.0	-9.3	20.0
2,2-Dichloropropane	Ave	0.4853	0.4466		46.0	50.0	-8.0	20.0
Propionitrile	Ave	1.279	1.194		233	250	-6.7	20.0
Methacrylonitrile	Ave	0.2066	0.1771		107	125	-14.3	20.0
Bromochloromethane	Ave	0.1630	0.1538		47.2	50.0	-5.6	20.0
Tetrahydrofuran	Ave	1.120	0.9779		218	250	-12.7	20.0
Chloroform	Ave	0.5724	0.5249	0.2000	45.8	50.0	-8.3	20.0
1,1,1-Trichloroethane	Ave	0.4794	0.4657	0.1000	48.6	50.0	-2.9	20.0
Cyclohexane	Ave	0.5772	0.4937	0.1000	42.8	50.0	-14.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Lab Sample ID: CCVIS 410-558851/3 Calibration Date: 10/03/2024 10:11

Instrument ID: 26285 Calib Start Date: 07/23/2024 20:11

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/23/2024 22:12

Lab File ID: 5C03X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloropropene	Ave	0.4415	0.4044		45.8	50.0	-8.4	20.0
Carbon tetrachloride	Ave	0.3978	0.4186	0.1000	52.6	50.0	5.2	20.0
Isobutyl alcohol	Ave	0.4205	0.4105		610	625	-2.4	20.0
Benzene	Ave	1.287	1.175	0.5000	45.6	50.0	-8.7	20.0
1,2-Dichloroethane	Ave	0.4602	0.4222	0.1000	45.9	50.0	-8.3	20.0
t-Amyl methyl ether	Ave	0.9778	0.7668		39.2	50.0	-21.6*	20.0
n-Heptane	Ave	0.3979	0.3242		40.7	50.0	-18.5	20.0
n-Butanol	Ave	0.2786	0.2420		543	625	-13.1	20.0
Trichloroethene	Ave	0.3256	0.3065	0.2000	47.1	50.0	-5.9	20.0
Methylcyclohexane	Ave	0.4992	0.4473	0.1000	44.8	50.0	-10.4	20.0
1,2-Dichloropropane	Ave	0.3464	0.3043	0.1000	43.9	50.0	-12.2	20.0
t-Amyl ethyl ether	Ave	0.4498	0.3684		41.0	50.0	-18.1	20.0
1,4-Dioxane	Lin		0.0652	0.0050	587	625	-6.1	20.0
Dibromomethane	Ave	0.2178	0.1977		45.4	50.0	-9.2	20.0
Methyl methacrylate	Ave	0.2909	0.2440		41.9	50.0	-16.1	20.0
Bromodichloromethane	Ave	0.4083	0.3807	0.2000	46.6	50.0	-6.7	20.0
2-Nitropropane	Ave	2.127	2.158		254	250	1.4	20.0
2-Chloroethyl vinyl ether	Ave	0.2480	0.1991		40.1	50.0	-19.7	20.0
cis-1,3-Dichloropropene	Ave	0.5143	0.4510	0.2000	43.8	50.0	-12.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6118	0.5953	0.1000	97.3	100	-2.7	20.0
Toluene	Ave	1.036	0.9465	0.4000	45.7	50.0	-8.6	20.0
trans-1,3-Dichloropropene	Ave	0.6391	0.5451	0.1000	42.7	50.0	-14.7	20.0
Ethyl methacrylate	Ave	0.6941	0.5525		39.8	50.0	-20.4*	20.0
1,1,2-Trichloroethane	Ave	0.3809	0.3540	0.1000	46.5	50.0	-7.1	20.0
Tetrachloroethene	Ave	0.4312	0.4153	0.2000	48.2	50.0	-3.7	20.0
1,3-Dichloropropane	Ave	0.6454	0.5631		43.6	50.0	-12.7	20.0
2-Hexanone	Ave	0.5959	0.6150	0.1000	103	100	3.2	20.0
Dibromochloromethane	Ave	0.4183	0.4080		48.8	50.0	-2.5	20.0
Ethylene Dibromide	Ave	0.4137	0.3707	0.1000	44.8	50.0	-10.4	20.0
Chlorobenzene	Ave	1.129	1.063	0.5000	47.1	50.0	-5.8	20.0
1-Chlorohexane	Ave	0.5399	0.4638		43.0	50.0	-14.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4182	0.4056		48.5	50.0	-3.0	20.0
Ethylbenzene	Ave	2.104	1.920	0.1000	45.6	50.0	-8.8	20.0
m&p-Xylene	Ave	0.7862	0.7250	0.1000	92.2	100	-7.8	20.0
o-Xylene	Ave	0.7978	0.7409	0.3000	46.4	50.0	-7.1	20.0
Styrene	Ave	1.269	1.200	0.3000	47.3	50.0	-5.5	20.0
Bromoform	Ave	0.3323	0.3269	0.1000	49.2	50.0	-1.6	20.0
Isopropylbenzene	Ave	1.839	1.640	0.1000	44.6	50.0	-10.8	20.0
Bromobenzene	Ave	0.8745	0.7724		44.2	50.0	-11.7	20.0
1,1,2,2-Tetrachloroethane	Ave	1.309	1.159	0.3000	44.2	50.0	-11.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Lab Sample ID: CCVIS 410-558851/3 Calibration Date: 10/03/2024 10:11

Instrument ID: 26285 Calib Start Date: 07/23/2024 20:11

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/23/2024 22:12

Lab File ID: 5C03X02.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
trans-1,4-Dichloro-2-butene	Ave	0.4044	0.1904		58.8	125	-52.9*	20.0
1,2,3-Trichloropropane	Ave	0.3501	0.3233		46.2	50.0	-7.6	20.0
N-Propylbenzene	Ave	4.302	3.772		43.8	50.0	-12.3	20.0
2-Chlorotoluene	Ave	0.8467	0.7364		43.5	50.0	-13.0	20.0
1,3,5-Trimethylbenzene	Ave	2.936	2.549		43.4	50.0	-13.2	20.0
4-Chlorotoluene	Ave	0.8260	0.7512		45.5	50.0	-9.1	20.0
tert-Butylbenzene	Ave	0.5040	0.4229		42.0	50.0	-16.1	20.0
1,2,4-Trimethylbenzene	Ave	3.043	2.633		43.3	50.0	-13.5	20.0
sec-Butylbenzene	Ave	3.513	3.051		43.4	50.0	-13.1	20.0
1,3-Dichlorobenzene	Ave	1.595	1.440	0.6000	45.1	50.0	-9.7	20.0
p-Isopropyltoluene	Ave	2.997	2.630		43.9	50.0	-12.3	20.0
1,4-Dichlorobenzene	Ave	1.622	1.463	0.5000	45.1	50.0	-9.8	20.0
1,2,3-Trimethylbenzene	Ave	3.106	2.697		43.4	50.0	-13.2	20.0
Benzyl chloride	Ave	2.473	2.238		45.3	50.0	-9.5	20.0
1,3-Diethylbenzene	Ave	1.728	1.482		42.9	50.0	-14.2	20.0
1,4-Diethylbenzene	Ave	1.793	1.580		44.0	50.0	-11.9	20.0
n-Butylbenzene	Ave	1.519	1.335		44.0	50.0	-12.1	20.0
1,2-Dichlorobenzene	Ave	1.612	1.460	0.4000	45.3	50.0	-9.5	20.0
1,2-Diethylbenzene	Ave	1.420	1.263		44.5	50.0	-11.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3552	0.3157	0.0500	44.4	50.0	-11.1	20.0
1,3,5-Trichlorobenzene	Ave	1.086	0.9260		42.6	50.0	-14.7	20.0
1,2,4-Trichlorobenzene	Ave	1.054	0.8281	0.2000	39.3	50.0	-21.4*	20.0
Hexachlorobutadiene	Ave	0.4103	0.3614		44.0	50.0	-11.9	20.0
Naphthalene	Ave	4.115	3.427		41.6	50.0	-16.7	20.0
1,2,3-Trichlorobenzene	Ave	1.046	0.8327		39.8	50.0	-20.4*	20.0
2-Methylnaphthalene	Ave	2.126	1.363		32.1	50.0	-35.9*	20.0
Dibromofluoromethane (Surr)	Ave	0.2631	0.2711		51.5	50.0	3.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0577	0.0595		51.5	50.0	3.1	20.0
Toluene-d8 (Surr)	Ave	1.314	1.331		50.6	50.0	1.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5300	0.5178		48.9	50.0	-2.3	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X02.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 03-Oct-2024 10:11:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126694-003
Misc. Info.: CCVIS
Operator ID: knk41612 Instrument ID: 26285
Sublist: chrom-MSVoa_26285a*sub53

Method: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 03-Oct-2024 15:51:31 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: DVW2 Date: 03-Oct-2024 11:30:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.519	1.519	0.000	99	629827	50.0	54.3	
4 Chloromethane	50	1.677	1.677	0.000	99	673764	50.0	44.8	
6 Butadiene	39	1.738	1.738	0.000	98	955728	50.0	67.5	M
5 Vinyl chloride	62	1.756	1.756	0.000	98	565807	50.0	46.5	
8 Bromomethane	94	2.025	2.025	0.000	91	389557	50.0	48.1	
9 Chloroethane	64	2.049	2.049	0.000	98	314198	50.0	46.1	
10 Dichlorofluoromethane	67	2.275	2.275	0.000	97	975062	50.0	45.2	
11 Trichlorofluoromethane	101	2.305	2.305	0.000	97	723111	50.0	51.9	
12 Pentane	43	2.311	2.311	0.000	96	635691	50.0	65.0	a
14 Ethyl ether	59	2.433	2.433	0.000	96	209498	50.0	40.6	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.531	2.531	0.000	94	514740	50.0	46.4	
16 Acrolein	56	2.561	2.561	0.000	99	1308017	501.1	415.6	
18 Acetone	58	2.683	2.683	0.000	97	124079	100.0	87.8	
17 1,1-Dichloroethene	96	2.707	2.707	0.000	97	318557	50.0	48.9	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.726	2.726	0.000	94	397516	50.0	52.8	
21 Isopropyl alcohol	45	2.805	2.805	0.000	96	170523	250.0	130.7	
20 Iodomethane	142	2.854	2.854	0.000	100	649084	50.0	49.5	
22 Carbon disulfide	76	2.915	2.915	0.000	99	831489	50.0	38.1	M
24 Methyl acetate	43	2.988	2.988	0.000	100	490180	50.0	45.0	
25 3-Chloro-1-propene	41	3.018	3.018	0.000	88	609632	50.0	42.0	
26 Methylene Chloride	84	3.189	3.189	0.000	99	384781	50.0	45.2	
* 27 t-Butyl alcohol-d10 (IS)	65	3.207	3.207	0.000	90	449394	250.0	250.0	
29 2-Methyl-2-propanol	59	3.293	3.293	0.000	99	353344	250.0	147.6	
30 Acrylonitrile	53	3.396	3.396	0.000	97	623275	125.0	109.0	
31 trans-1,2-Dichloroethene	96	3.469	3.469	0.000	95	350937	50.0	47.9	
32 Methyl tert-butyl ether	73	3.476	3.476	0.000	98	999328	50.0	39.6	
33 Hexane	57	3.817	3.817	0.000	94	426747	50.0	44.2	
34 1,1-Dichloroethane	63	4.018	4.018	0.000	96	667521	50.0	45.5	
36 Isopropyl ether	45	4.091	4.091	0.000	95	1127349	50.0	39.9	
37 2-Chloro-1,3-butadiene	53	4.128	4.128	0.000	94	552317	50.0	43.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	4.658	4.658	0.000	98	983508	50.0	37.9	
39 2-Butanone (MEK)	43	4.853	4.853	0.000	99	716682	100.0	90.1	
40 cis-1,2-Dichloroethene	96	4.884	4.884	0.000	85	386337	50.0	45.3	
41 2,2-Dichloropropane	77	4.914	4.914	0.000	88	554943	50.0	46.0	
43 Propionitrile	54	4.945	4.945	0.000	98	536388	250.0	233.3	
45 Methacrylonitrile	67	5.176	5.176	0.000	95	550179	125.0	107.2	
46 Chlorobromomethane	128	5.231	5.231	0.000	96	191159	50.0	47.2	
47 Tetrahydrofuran	71	5.250	5.250	0.000	90	439468	250.0	218.2	
48 Chloroform	83	5.396	5.396	0.000	95	652140	50.0	45.8	
$ 49 Dibromofluoromethane (Surr)	113	5.628	5.628	0.000	93	336887	50.0	51.5	
50 1,1,1-Trichloroethane	97	5.646	5.646	0.000	98	578627	50.0	48.6	
51 Cyclohexane	56	5.749	5.749	0.000	95	613379	50.0	42.8	
53 1,1-Dichloropropene	75	5.859	5.859	0.000	93	502537	50.0	45.8	
52 Carbon tetrachloride	117	5.859	5.859	0.000	72	520155	50.0	52.6	
55 Isobutyl alcohol	41	6.097	6.097	0.000	78	461159	625.0	610.1	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.103	6.103	0.000	85	73896	50.0	51.5	
57 Benzene	78	6.134	6.134	0.000	98	1459383	50.0	45.6	
58 1,2-Dichloroethane	62	6.213	6.213	0.000	98	524593	50.0	45.9	
60 Tert-amyl methyl ether	73	6.371	6.371	0.000	97	952739	50.0	39.2	
* 61 Fluorobenzene (IS)	96	6.572	6.572	0.000	99	1242520	50.0	50.0	
62 n-Heptane	43	6.615	6.615	0.000	95	402764	50.0	40.7	
63 n-Butanol	56	7.018	7.018	0.000	93	271883	625.0	542.9	
64 Trichloroethene	95	7.085	7.085	0.000	97	380783	50.0	47.1	
66 Methylcyclohexane	83	7.402	7.402	0.000	94	555784	50.0	44.8	
67 1,2-Dichloropropane	63	7.426	7.426	0.000	96	378082	50.0	43.9	
68 2-ethoxy-2-methyl butane	87	7.475	7.475	0.000	90	457692	50.0	41.0	
69 1,4-Dioxane	88	7.530	7.530	0.000	30	73221	625.0	586.7	M
70 Dibromomethane	93	7.536	7.536	0.000	96	245657	50.0	45.4	
71 Methyl methacrylate	69	7.560	7.560	0.000	92	303131	50.0	41.9	
74 Dichlorobromomethane	83	7.804	7.804	0.000	98	473069	50.0	46.6	
75 2-Nitropropane	41	8.097	8.097	0.000	99	969642	250.0	253.6	
76 2-Chloroethyl vinyl ether	63	8.212	8.212	0.000	93	247368	50.0	40.1	
77 cis-1,3-Dichloropropene	75	8.395	8.395	0.000	93	560408	50.0	43.8	
78 4-Methyl-2-pentanone (MIBK)	43	8.609	8.609	0.000	99	1479287	100.0	97.3	
$ 79 Toluene-d8 (Surr)	98	8.743	8.743	0.000	95	1228321	50.0	50.6	
80 Toluene	92	8.834	8.834	0.000	98	873617	50.0	45.7	
84 trans-1,3-Dichloropropene	75	9.163	9.163	0.000	97	503172	50.0	42.7	
85 Ethyl methacrylate	69	9.267	9.267	0.000	91	509998	50.0	39.8	
86 1,1,2-Trichloroethane	97	9.401	9.401	0.000	92	326738	50.0	46.5	
87 Tetrachloroethene	166	9.487	9.487	0.000	96	383320	50.0	48.2	
88 1,3-Dichloropropane	76	9.584	9.584	0.000	96	519727	50.0	43.6	
90 2-Hexanone	43	9.676	9.676	0.000	99	1135286	100.0	103.2	
91 Chlorodibromomethane	129	9.828	9.828	0.000	90	376631	50.0	48.8	
96 Ethylene Dibromide	107	9.938	9.938	0.000	99	342138	50.0	44.8	
* 98 Chlorobenzene-d5 (IS)	117	10.438	10.438	0.000	86	923008	50.0	50.0	
99 Chlorobenzene	112	10.462	10.462	0.000	93	981481	50.0	47.1	
100 1-Chlorohexane	91	10.474	10.474	0.000	92	428090	50.0	43.0	
128 1,1,1,2-Tetrachloroethane	131	10.566	10.566	0.000	95	374412	50.0	48.5	
129 Ethylbenzene	91	10.572	10.572	0.000	99	1771779	50.0	45.6	
130 m-Xylene & p-Xylene	106	10.706	10.706	0.000	99	1338331	100.0	92.2	
132 o-Xylene	106	11.059	11.059	0.000	97	683827	50.0	46.4	
133 Styrene	104	11.078	11.078	0.000	95	1107759	50.0	47.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Bromoform	173	11.230	11.230	0.000	96	301755	50.0	49.2	
136 Isopropylbenzene	105	11.389	11.389	0.000	96	1513792	50.0	44.6	
$ 140 4-Bromofluorobenzene (Surr)	95	11.535	11.535	0.000	92	477965	50.0	48.9	
143 Bromobenzene	156	11.645	11.645	0.000	94	423026	50.0	44.2	
144 1,1,2,2-Tetrachloroethane	83	11.657	11.657	0.000	95	634586	50.0	44.2	
145 trans-1,4-Dichloro-2-butene	53	11.681	11.681	0.000	88	260669	125.0	58.8	
146 1,2,3-Trichloropropane	110	11.693	11.693	0.000	87	177055	50.0	46.2	
147 N-Propylbenzene	91	11.742	11.742	0.000	99	2065722	50.0	43.8	
148 2-Chlorotoluene	126	11.809	11.809	0.000	96	403306	50.0	43.5	
149 1,3,5-Trimethylbenzene	105	11.889	11.889	0.000	94	1396142	50.0	43.4	
150 4-Chlorotoluene	126	11.907	11.907	0.000	98	411394	50.0	45.5	
152 tert-Butylbenzene	134	12.138	12.138	0.000	94	231605	50.0	42.0	
154 1,2,4-Trimethylbenzene	105	12.187	12.187	0.000	98	1442208	50.0	43.3	
155 sec-Butylbenzene	105	12.309	12.309	0.000	95	1671107	50.0	43.4	
156 1,3-Dichlorobenzene	146	12.401	12.401	0.000	98	788806	50.0	45.1	
157 4-Isopropyltoluene	119	12.431	12.431	0.000	98	1440400	50.0	43.9	
* 158 1,4-Dichlorobenzene-d4	152	12.462	12.462	0.000	95	547664	50.0	50.0	
159 1,4-Dichlorobenzene	146	12.480	12.480	0.000	95	801370	50.0	45.1	
160 1,2,3-Trimethylbenzene	105	12.498	12.498	0.000	99	1477066	50.0	43.4	
164 Benzyl chloride	91	12.565	12.565	0.000	99	1225917	50.0	45.3	
165 1,3-Diethylbenzene	119	12.638	12.638	0.000	95	811704	50.0	42.9	
166 p-Diethylbenzene	119	12.712	12.712	0.000	93	865060	50.0	44.0	
167 n-Butylbenzene	92	12.730	12.730	0.000	98	731252	50.0	44.0	
168 1,2-Dichlorobenzene	146	12.748	12.748	0.000	98	799481	50.0	45.3	
169 o-diethylbenzene	119	12.785	12.785	0.000	97	691483	50.0	44.5	
170 1,2-Dibromo-3-Chloropropane	75	13.309	13.309	0.000	81	172921	50.0	44.4	
171 1,3,5-Trichlorobenzene	180	13.443	13.443	0.000	97	507118	50.0	42.6	
173 1,2,4-Trichlorobenzene	180	13.876	13.876	0.000	94	453511	50.0	39.3	
174 Hexachlorobutadiene	225	13.967	13.967	0.000	68	197901	50.0	44.0	
176 Naphthalene	128	14.053	14.053	0.000	97	1876883	50.0	41.6	
177 1,2,3-Trichlorobenzene	180	14.199	14.199	0.000	95	456049	50.0	39.8	
178 2-Methylnaphthalene	142	14.796	14.796	0.000	92	746244	50.0	32.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00203	Amount Added:	5.00	Units: uL	
MSV_CCV_2CEVE_00195	Amount Added:	5.00	Units: uL	
MSV_CCV_VOC#3_00200	Amount Added:	4.00	Units: uL	
MSV_CCV_GASES_00877	Amount Added:	2.50	Units: uL	
MSV_CCV_EE_00007	Amount Added:	5.00	Units: uL	
MSV_Cent_ISSS_00031	Amount Added:	5.00	Units: uL	Run Reagent

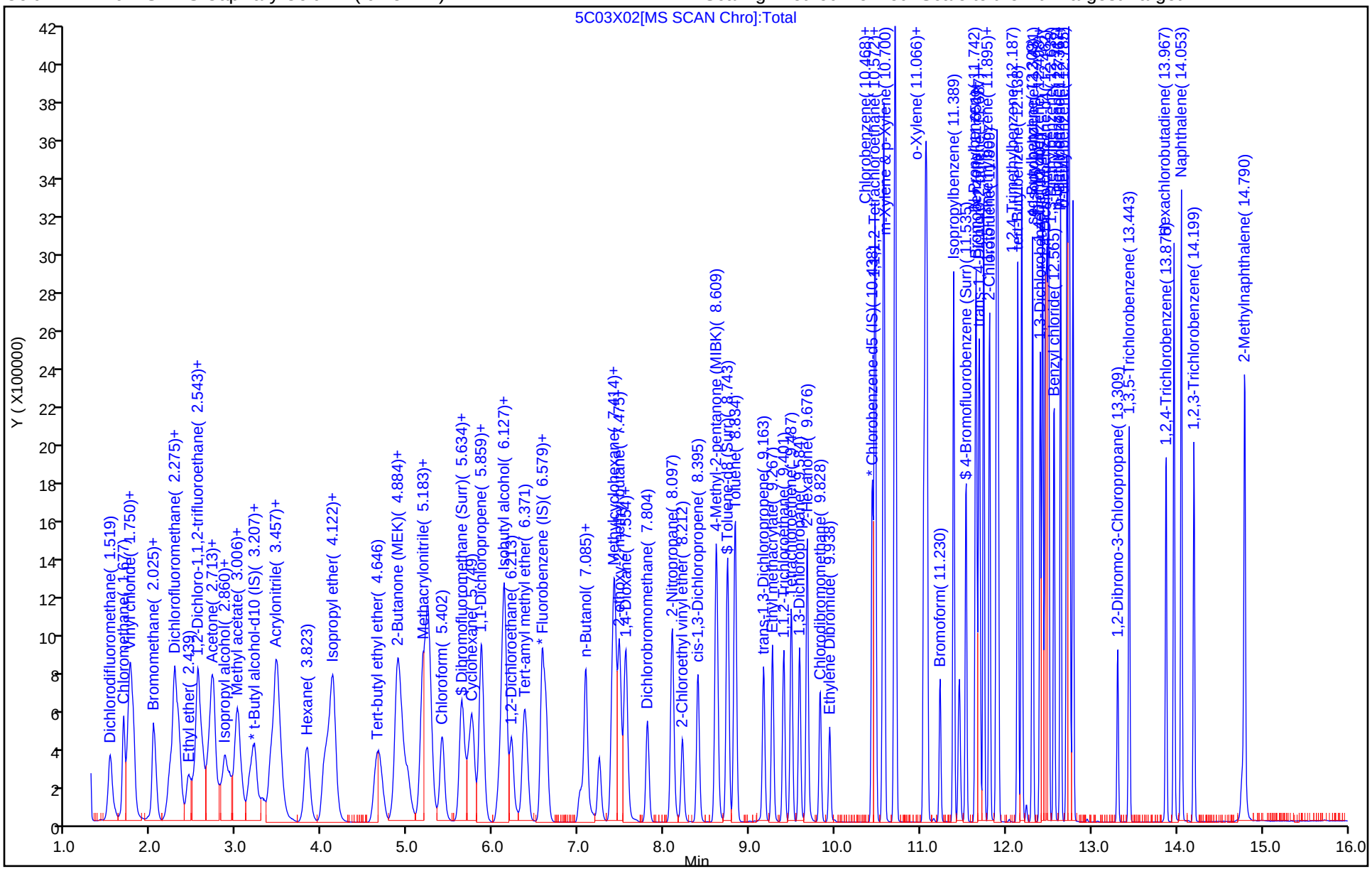
Report Date: 03-Oct-2024 15:51:32 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X02.D

Injection Date:	03-Oct-2024 10:11:30	Instrument ID:	26285	Operator ID:	knk41612
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

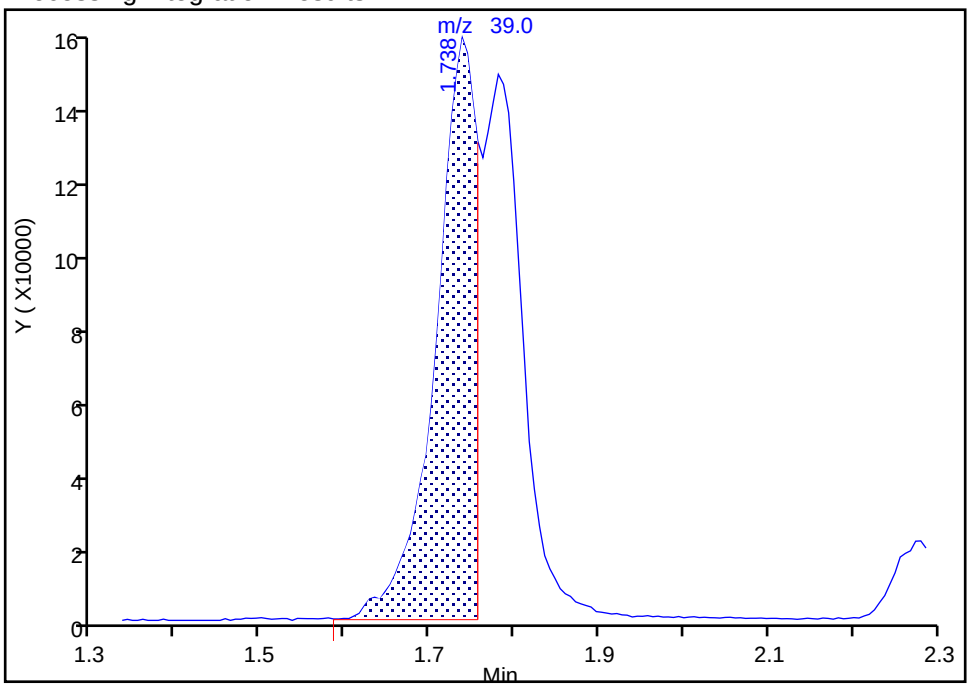
Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X02.D
Injection Date: 03-Oct-2024 10:11:30 Instrument ID: 26285
Lims ID: CCVIS
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

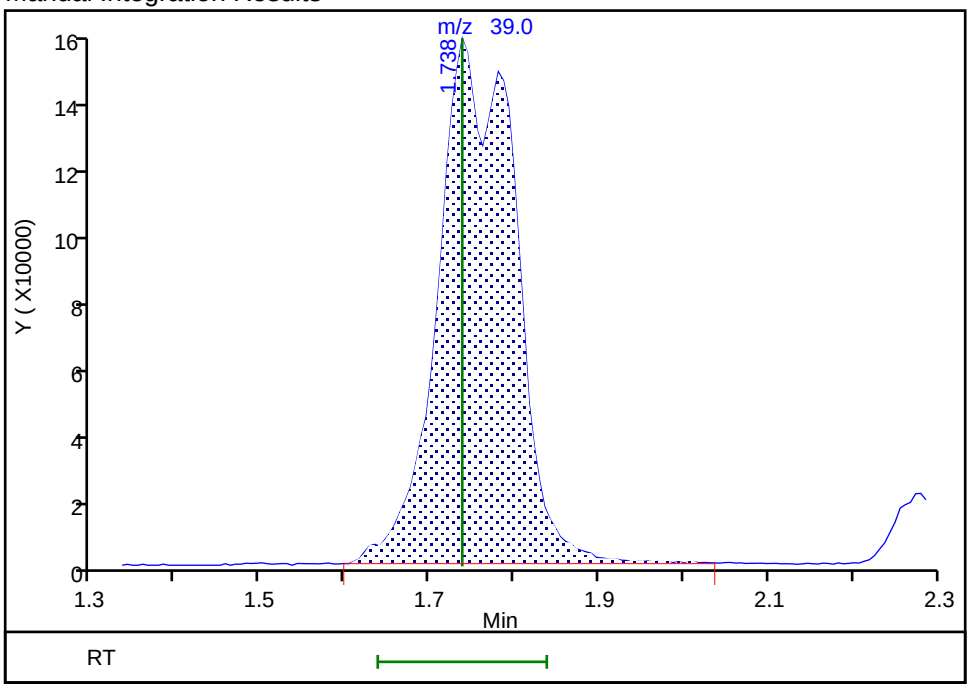
Processing Integration Results

RT: 1.74
Area: 501858
Amount: 35.439722
Amount Units: ug/l



Manual Integration Results

RT: 1.74
Area: 955728
Amount: 67.490674
Amount Units: ug/l



Reviewer: DVW2, 03-Oct-2024 11:29:27 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

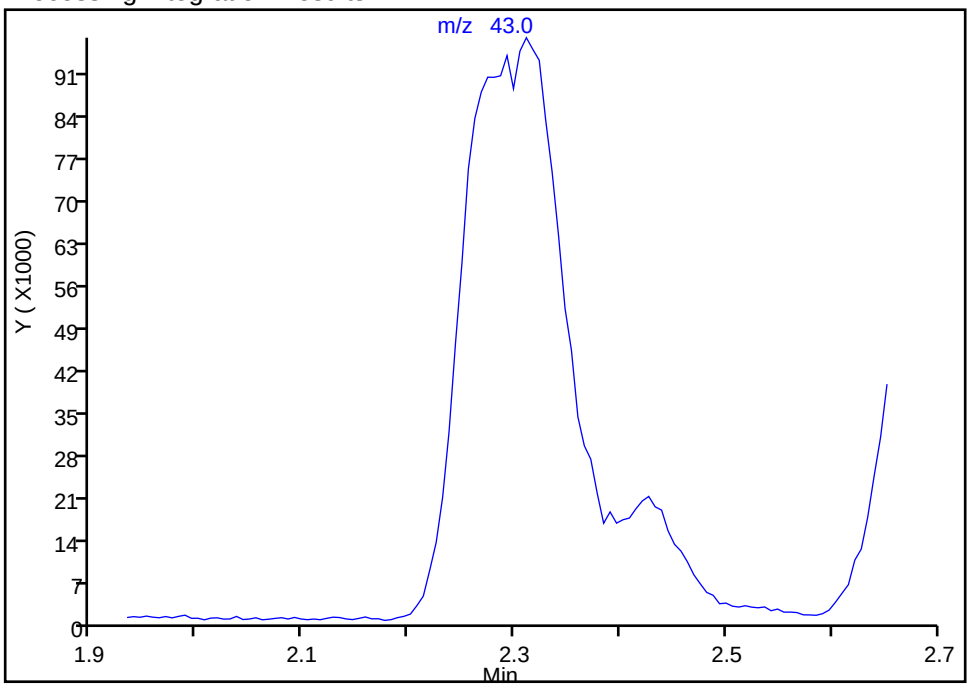
Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X02.D
Injection Date: 03-Oct-2024 10:11:30 Instrument ID: 26285
Lims ID: CCVIS
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

12 Pentane, CAS: 109-66-0

Signal: 1

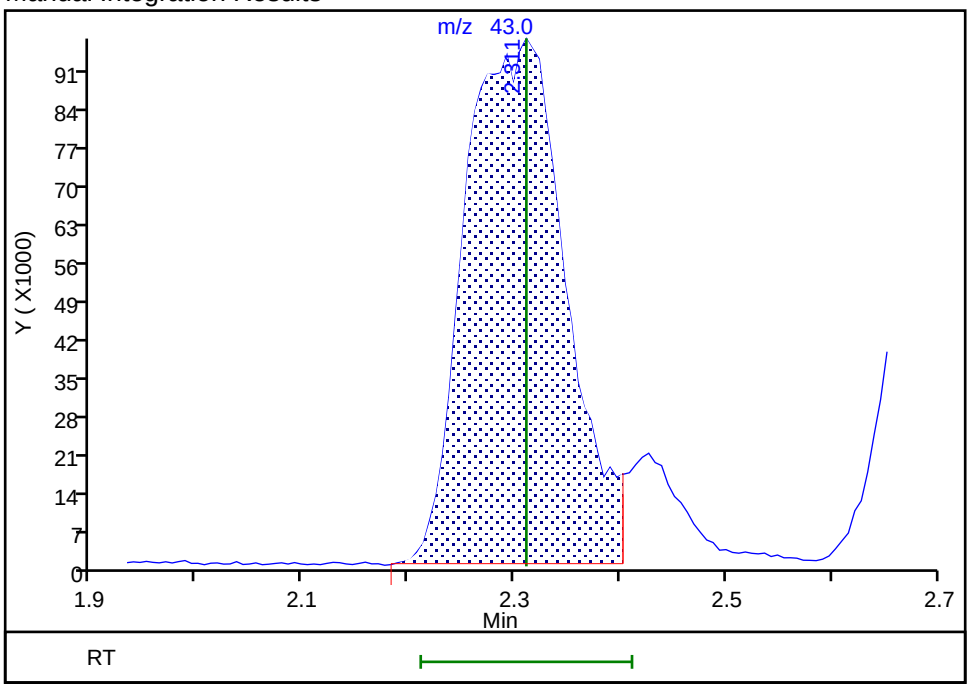
Not Detected
Expected RT: 2.31

Processing Integration Results



Manual Integration Results

RT: 2.31
Area: 635691
Amount: 65.049978
Amount Units: ug/l



Reviewer: DVW2, 03-Oct-2024 11:29:18 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

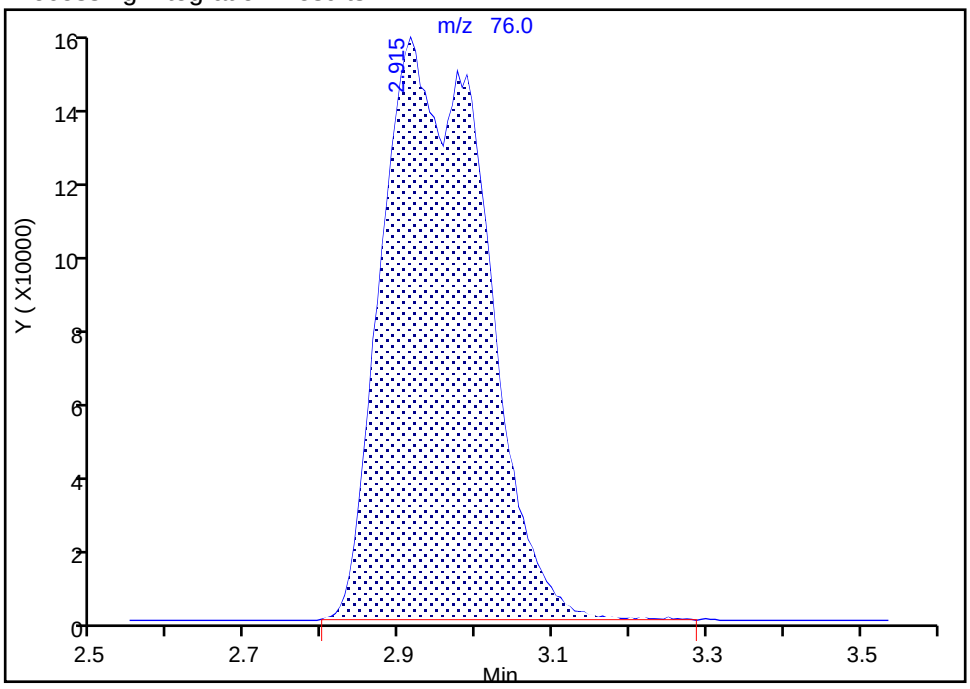
Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X02.D
Injection Date: 03-Oct-2024 10:11:30 Instrument ID: 26285
Lims ID: CCVIS
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

22 Carbon disulfide, CAS: 75-15-0

Signal: 1

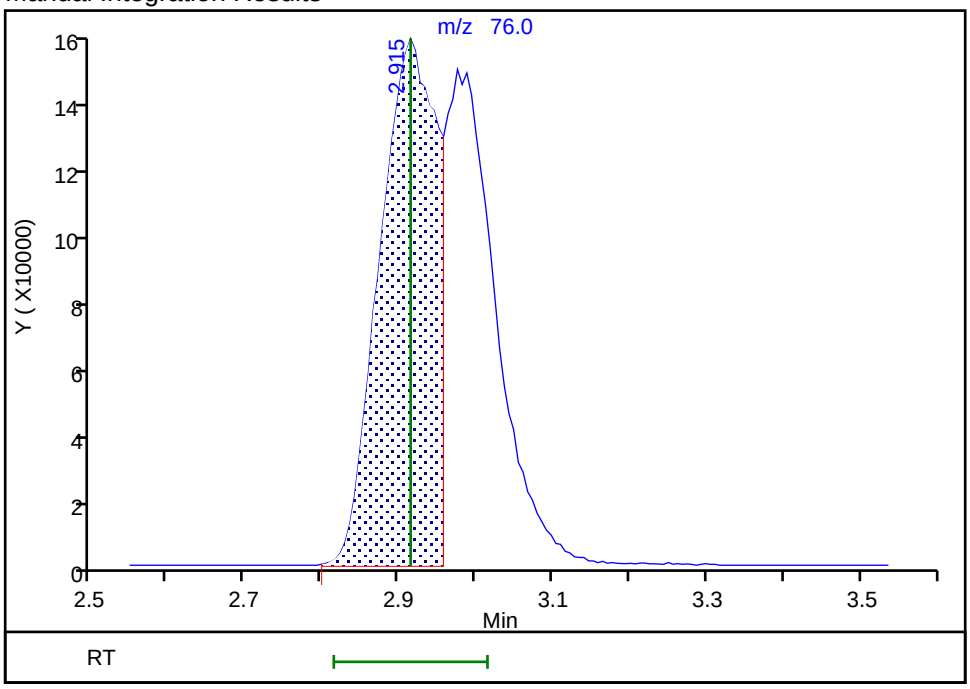
RT: 2.91
Area: 1486559
Amount: 68.137139
Amount Units: ug/l

Processing Integration Results



RT: 2.91
Area: 831489
Amount: 38.111694
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 03-Oct-2024 11:29:45 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

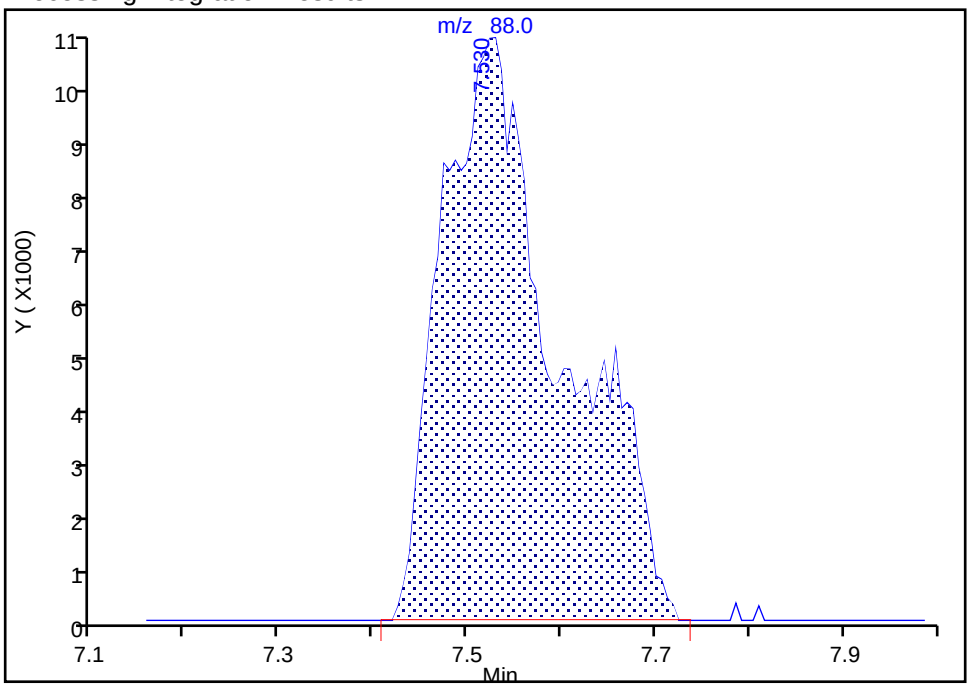
Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X02.D
Injection Date: 03-Oct-2024 10:11:30 Instrument ID: 26285
Lims ID: CCVIS
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

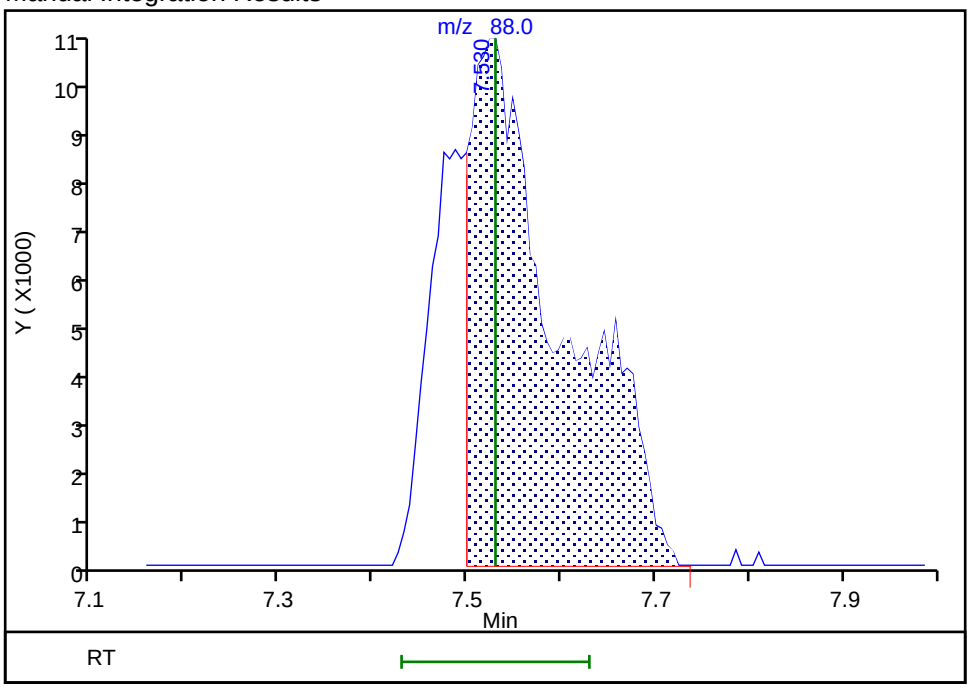
Processing Integration Results

RT: 7.53
Area: 94980
Amount: 758.0799
Amount Units: ug/l



Manual Integration Results

RT: 7.53
Area: 73221
Amount: 586.7170
Amount Units: ug/l



Reviewer: DVW2, 03-Oct-2024 11:30:11 -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\26285\20240723-120132.b\5L23T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	23-Jul-2024 18:15:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0120011-001				
Misc. Info.:	BFB				
Operator ID:	gaw91131	Instrument ID:	26285		
Method:	\\chromfs\Lancaster\ChromData\26285\20240723-120132.b\MSVoa_26285a.m				
Limit Group:	MSV - 8260C_D				
Last Update:	24-Jul-2024 14:42:44	Calib Date:	23-Jul-2024 22:12:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1614				
First Level Reviewer: JS6E		Date:	23-Jul-2024 18:27:10		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 139 BFB	95	4.248	4.248	0.000	0	680193	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

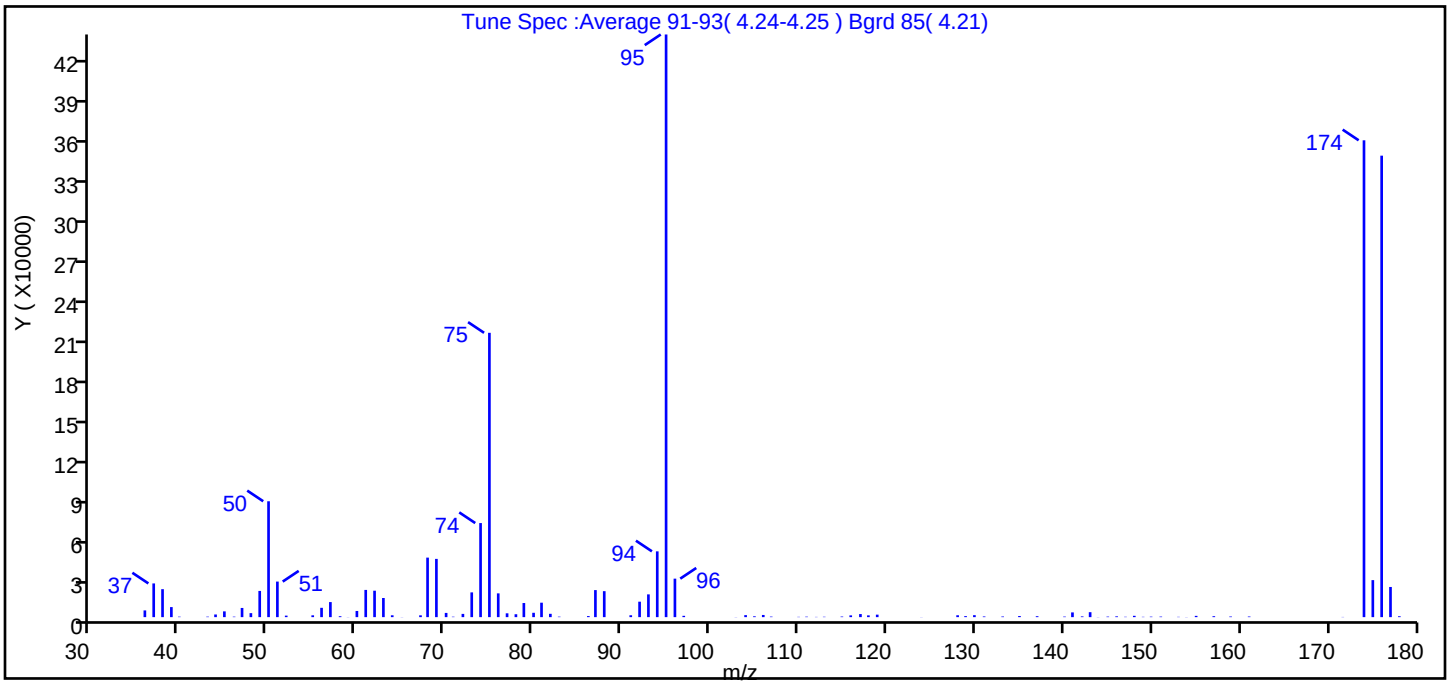
MSV_V_BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23T01.D
Injection Date: 23-Jul-2024 18:15:30 Instrument ID: 26285
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_26285a Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 139 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.9
75	30 to 60% of m/z 95	48.8
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	81.8
175	5 to 9% of m/z 174	6.4 (7.8)
176	Greater than 95% but less than 101% of m/z 174	79.2 (96.8)
177	5 to 9% of m/z 176	5.2 (6.5)

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23T01.D\MSVoa_26285a.rslt\spectra.d
Injection Date: 23-Jul-2024 18:15:30
Spectrum: Tune Spec :Average 91-93(4.24-4.25) Bgrd 85(4.21)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 99

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5022	65.00	91	95.00	434496	140.00	411
37.00	25144	67.00	1350	96.00	28704	141.00	3532
38.00	20864	68.00	44392	97.00	983	142.00	548
39.00	7497	69.00	43440	103.00	101	143.00	3695
40.00	353	70.00	3150	104.00	1499	144.00	101
43.00	363	71.00	327	105.00	624	145.00	402
44.00	1988	72.00	2426	106.00	1623	146.00	599
45.00	4307	73.00	18464	107.00	405	147.00	273
46.00	358	74.00	70160	110.00	221	148.00	990
47.00	6855	75.00	212032	111.00	359	149.00	239
48.00	2983	76.00	17728	112.00	181	150.00	372
49.00	19544	77.00	2861	113.00	285	151.00	408
50.00	86408	78.00	2170	115.00	445	153.00	227
51.00	26520	79.00	10526	116.00	1318	154.00	104
52.00	1133	80.00	3248	117.00	2294	155.00	953
55.00	1359	81.00	10779	118.00	1326	157.00	693
56.00	6956	82.00	2482	119.00	1855	159.00	467
57.00	11229	83.00	357	124.00	86	161.00	470
58.00	664	86.00	789	128.00	1407	172.00	147
59.00	88	87.00	20168	129.00	764	174.00	355584
60.00	4602	88.00	19368	130.00	1473	175.00	27608
61.00	20296	91.00	1398	131.00	506	176.00	344128
62.00	19712	92.00	11529	133.00	478	177.00	22496
63.00	14278	93.00	16976	135.00	826	178.00	652
64.00	1386	94.00	49064	137.00	699		

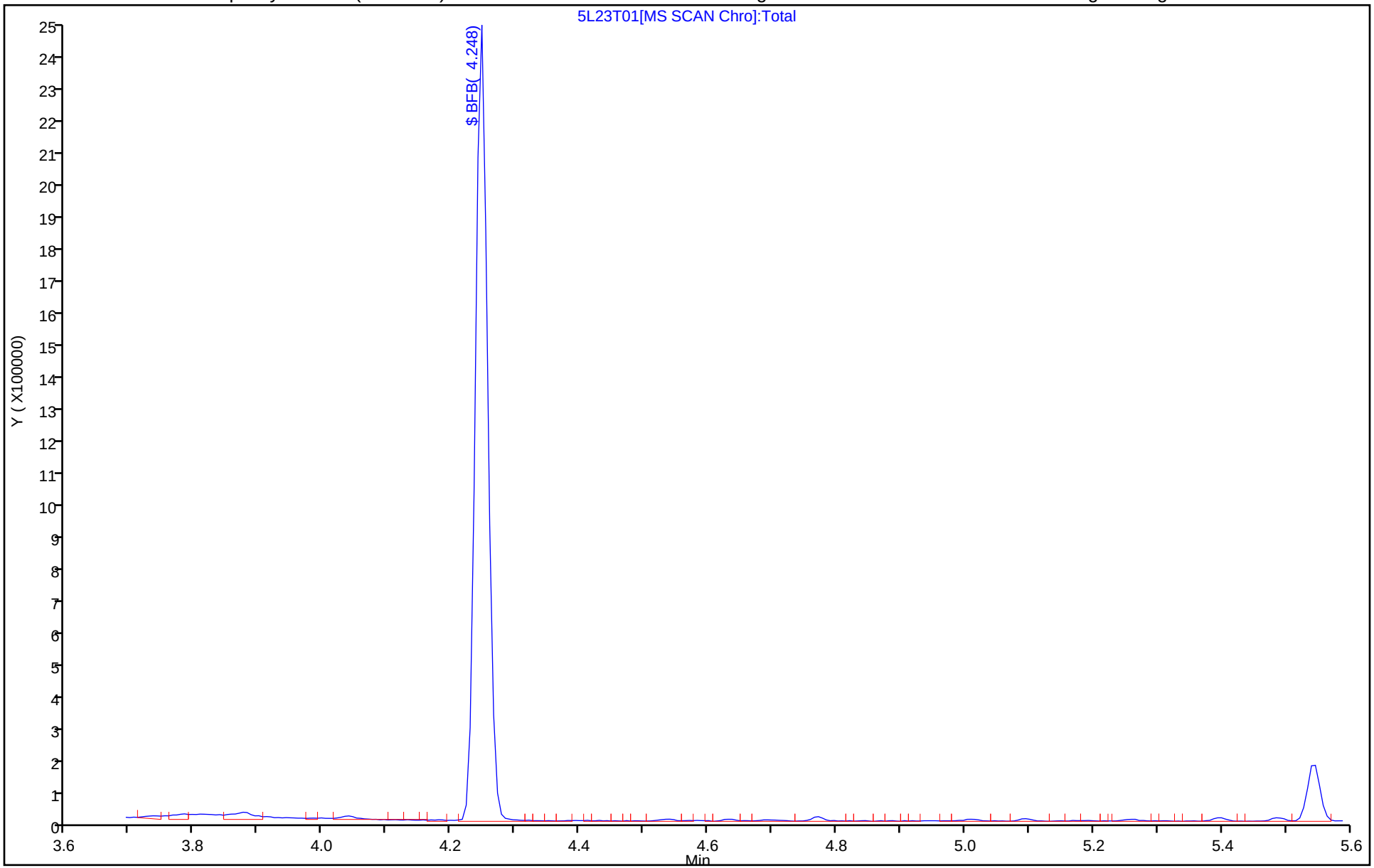
Report Date: 24-Jul-2024 14:42:45 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23T01.D

Injection Date:	23-Jul-2024 18:15:30	Instrument ID:	26285	Operator ID:	gaw91131
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	03-Oct-2024 09:37:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0126694-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	26285		
Method:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Oct-2024 15:52:28	Calib Date:	23-Jul-2024 22:12:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 139 BFB	95	4.235	4.235	0.000	0	459044	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

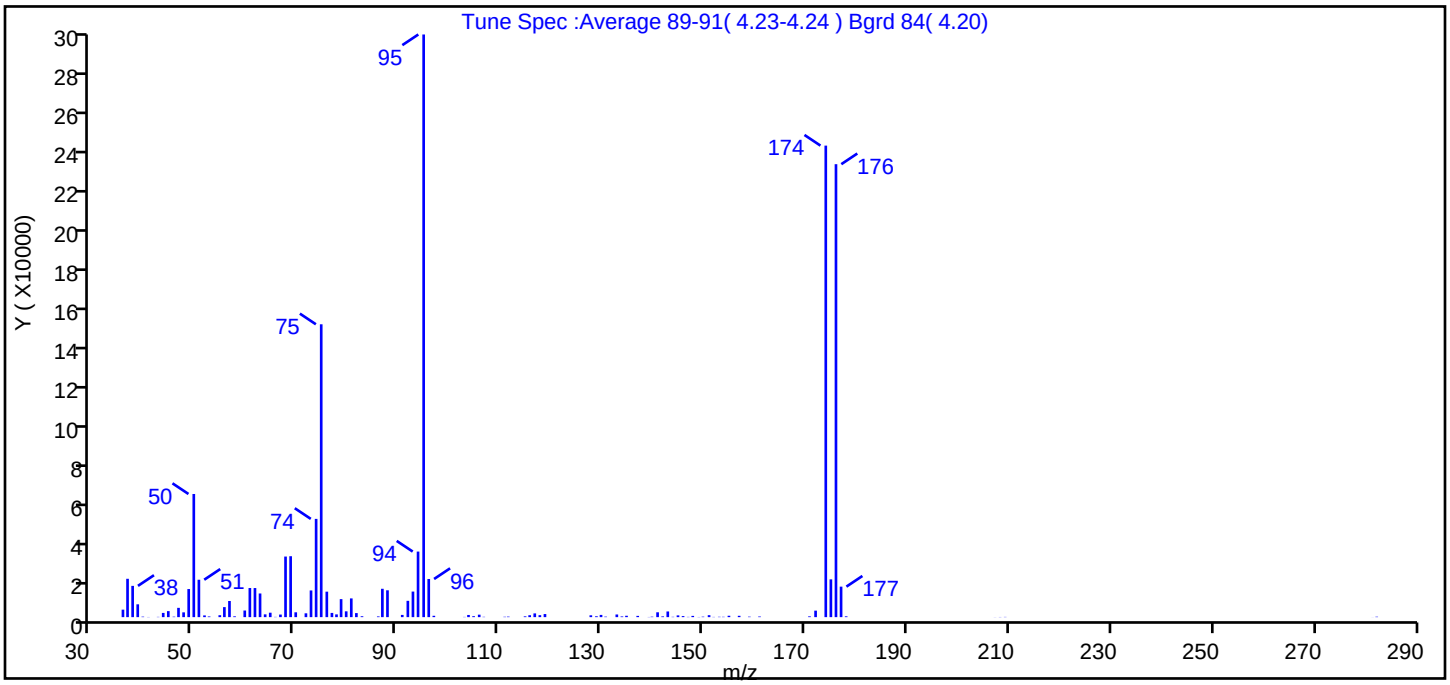
MSV_V_BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03T01.D
Injection Date: 03-Oct-2024 09:37:30 Instrument ID: 26285
Lims ID: BFB
Client ID:
Operator ID: knk41612 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 139 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.1
75	30 to 60% of m/z 95	50.3
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	80.9
175	5 to 9% of m/z 174	6.5 (8.0)
176	Greater than 95% but less than 101% of m/z 174	77.7 (96.1)
177	5 to 9% of m/z 176	5.2 (6.7)

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03T01.D\MSVoa_26285a.rslt\spectra.d
Injection Date: 03-Oct-2024 09:37:30
Spectrum: Tune Spec :Average 89-91(4.23-4.24) Bgrd 84(4.20)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 106

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3770	66.00	119	103.00	116	146.00	526
37.00	19304	67.00	1297	104.00	1097	147.00	130
38.00	15738	68.00	30496	105.00	481	148.00	628
39.00	6460	69.00	30664	106.00	1246	149.00	84
40.00	249	70.00	2438	107.00	160	150.00	238
41.00	83	72.00	1931	111.00	185	151.00	989
43.00	134	73.00	13438	112.00	265	152.00	112
44.00	2127	74.00	49448	115.00	397	153.00	181
45.00	3028	75.00	147392	116.00	965	154.00	169
46.00	238	76.00	12826	117.00	1885	155.00	705
47.00	4678	77.00	2124	118.00	993	157.00	676
48.00	2413	78.00	1388	119.00	1560	159.00	249
49.00	14141	79.00	9070	128.00	928	161.00	319
50.00	61984	80.00	2933	129.00	439	171.00	396
51.00	18824	81.00	9430	130.00	1124	172.00	3268
52.00	867	82.00	2041	131.00	253	174.00	237312
53.00	343	83.00	444	133.00	1339	175.00	19016
55.00	968	86.00	362	134.00	358	176.00	227968
56.00	5046	87.00	14276	135.00	697	177.00	15352
57.00	8125	88.00	13514	137.00	637	178.00	407
58.00	407	91.00	1122	139.00	88	207.00	40
60.00	3333	92.00	8209	140.00	237	208.00	84
61.00	14657	93.00	12872	141.00	2440	209.00	118
62.00	14644	94.00	33000	142.00	375	281.00	24
63.00	11910	95.00	293248	143.00	2858	282.00	215
64.00	1409	96.00	19200	144.00	160		
65.00	2236	97.00	681	145.00	885		

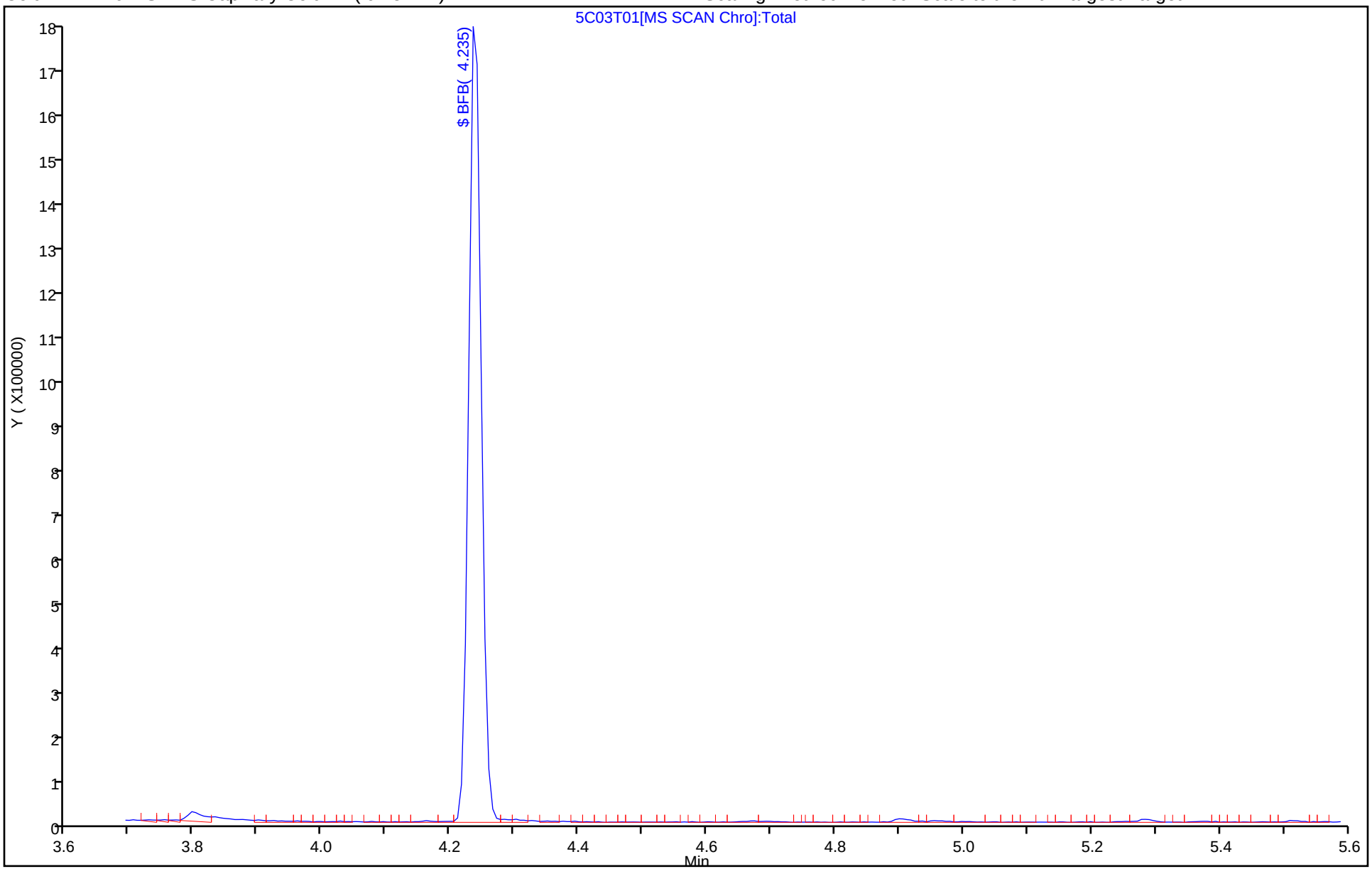
Report Date: 03-Oct-2024 15:52:28 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03T01.D

Injection Date:	03-Oct-2024 09:37:30	Instrument ID:	26285	Operator ID:	knk41612
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189937-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-558851/7

Matrix: Water
Lab File ID: 5C03X06.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 10/03/2024 11:33

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.: 558851
Units: ug/L

Preparation Batch No.:
Instrument ID: 26285

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	Ethylene Dibromide	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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189937-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-558851/7

Matrix: Water
Lab File ID: 5C03X06.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 10/03/2024 11:33

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.: 558851
Units: ug/L

Preparation Batch No.:
Instrument ID: 26285

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X06.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 03-Oct-2024 11:33:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126694-007
Operator ID: knk41612 Instrument ID: 26285

Method: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 03-Oct-2024 15:51:31 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: DVW2 Date: 03-Oct-2024 15:50:27

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116		1.488					ND	
2	Dichlorodifluoromethane	85		1.519					ND	
3	Chlorodifluoromethane	51		1.525					ND	
4	Chloromethane	50		1.677					ND	
6	Butadiene	39		1.738					ND	7
5	Vinyl chloride	62		1.756					ND	
7	2-Chloro-1,1,1-Trifluoroethane	118		1.836					ND	
8	Bromomethane	94		2.025					ND	
9	Chloroethane	64		2.049					ND	
10	Dichlorofluoromethane	67		2.275					ND	
11	Trichlorofluoromethane	101		2.305					ND	
12	Pentane	43		2.311					ND	
13	Ethanol	45		2.396					ND	
14	Ethyl ether	59		2.433					ND	
15	1,2-Dichloro-1,1,2-trifluoroetha	67		2.531					ND	
16	Acrolein	56		2.561					ND	
18	Acetone	58		2.683					ND	
17	1,1-Dichloroethene	96		2.707					ND	
19	1,1,2-Trichloro-1,2,2-trifluoroe	101		2.726					ND	
21	Isopropyl alcohol	45		2.805					ND	
20	Iodomethane	142		2.854					ND	
22	Carbon disulfide	76		2.915					ND	7
23	Acetonitrile	41		2.988					ND	
24	Methyl acetate	43		2.988					ND	
25	3-Chloro-1-propene	41		3.018					ND	
26	Methylene Chloride	84		3.189					ND	
* 27	t-Butyl alcohol-d10 (IS)	65	3.232	3.207	0.025	95	423869	250.0	250.0	
29	2-Methyl-2-propanol	59		3.293					ND	
30	Acrylonitrile	53		3.396					ND	
31	trans-1,2-Dichloroethene	96		3.469					ND	
32	Methyl tert-butyl ether	73		3.476					ND	
33	Hexane	57		3.817					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63		4.018				ND		
35 Vinyl acetate	43		4.042				ND		
36 Isopropyl ether	45		4.091				ND		
37 2-Chloro-1,3-butadiene	53		4.128				ND		
38 Tert-butyl ethyl ether	59		4.658				ND		
39 2-Butanone (MEK)	43		4.853				ND		
40 cis-1,2-Dichloroethene	96		4.884				ND		
41 2,2-Dichloropropane	77		4.914				ND		
43 Propionitrile	54		4.945				ND		
42 Ethyl acetate	43		4.963				ND		
44 Methyl acrylate	55		5.042				ND		
45 Methacrylonitrile	67		5.176				ND		
46 Chlorobromomethane	128		5.231				ND		
47 Tetrahydrofuran	71		5.250				ND		
48 Chloroform	83		5.396				ND		
$ 49 Dibromofluoromethane (Surr)	113	5.627	5.628	-0.001	93	330440	50.0	54.4	
50 1,1,1-Trichloroethane	97		5.646				ND		
51 Cyclohexane	56		5.749				ND		
53 1,1-Dichloropropene	75		5.859				ND		
52 Carbon tetrachloride	117		5.859				ND		
55 Isobutyl alcohol	41		6.097				ND		
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.103	6.103	0.000	47	70496	50.0	52.9	
57 Benzene	78		6.134				ND		
S 54 1,2-Dichloroethene, Total	100		6.155				ND		7
58 1,2-Dichloroethane	62		6.213				ND		
59 Isopropyl acetate	43		6.280				ND		
60 Tert-amyl methyl ether	73		6.371				ND		
* 61 Fluorobenzene (IS)	96	6.578	6.572	0.006	98	1154023	50.0	50.0	
62 n-Heptane	43		6.615				ND		7
63 n-Butanol	56		7.018				ND		
64 Trichloroethene	95		7.085				ND		
65 Ethyl acrylate	55		7.249				ND		
66 Methylcyclohexane	83		7.402				ND		
67 1,2-Dichloropropane	63		7.426				ND		
68 2-ethoxy-2-methyl butane	87		7.475				ND		
69 1,4-Dioxane	88		7.530				ND		
70 Dibromomethane	93		7.536				ND		
71 Methyl methacrylate	69		7.560				ND		
72 n-Propyl acetate	61		7.658				ND		
74 Dichlorobromomethane	83		7.804				ND		
73 t-Amyl alcohol	73		7.842				ND		
75 2-Nitropropane	41		8.097				ND		
76 2-Chloroethyl vinyl ether	63		8.212				ND		
77 cis-1,3-Dichloropropene	75		8.395				ND		
78 4-Methyl-2-pentanone (MIBK)	43		8.609				ND		
$ 79 Toluene-d8 (Surr)	98	8.743	8.743	0.000	95	1099767	50.0	48.2	
80 Toluene	92		8.834				ND		
84 trans-1,3-Dichloropropene	75		9.163				ND		
85 Ethyl methacrylate	69		9.267				ND		
86 1,1,2-Trichloroethane	97		9.401				ND		
87 Tetrachloroethene	166		9.487				ND		
88 1,3-Dichloropropane	76		9.584				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
89 3,4-Dichloro-1-butene	75		9.639					ND	
90 2-Hexanone	43		9.676					ND	
91 Chlorodibromomethane	129		9.828					ND	
92 n-Butyl acetate	43		9.834					ND	
96 Ethylene Dibromide	107		9.938					ND	
S 97 1,3-Dichloropropene, Total	100		10.060					ND	7
* 98 Chlorobenzene-d5 (IS)	117	10.437	10.438	-0.001	88	868900	50.0	50.0	
99 Chlorobenzene	112		10.462					ND	
100 1-Chlorohexane	91		10.474					ND	U
128 1,1,1,2-Tetrachloroethane	131		10.566					ND	
129 Ethylbenzene	91		10.572					ND	
130 m-Xylene & p-Xylene	106		10.706					ND	
131 n-Butyl acrylate	55		10.980					ND	
132 o-Xylene	106		11.059					ND	
133 Styrene	104		11.078					ND	
135 Bromoform	173		11.230					ND	
S 134 Xylenes, Total	106		11.245					ND	7
137 Cyclohexanone	55		11.382					ND	
136 Isopropylbenzene	105		11.389					ND	
138 cis-1,4-Dichloro-2-butene	88		11.449					ND	U
$ 140 4-Bromofluorobenzene (Surr)	95	11.535	11.535	0.000	90	425874	50.0	46.2	
143 Bromobenzene	156		11.645					ND	
144 1,1,2,2-Tetrachloroethane	83		11.657					ND	
162 Ethyl bromide	108		11.669					ND	U
145 trans-1,4-Dichloro-2-butene	53		11.681					ND	
146 1,2,3-Trichloropropane	110		11.693					ND	
147 N-Propylbenzene	91		11.742					ND	
148 2-Chlorotoluene	126		11.809					ND	
149 1,3,5-Trimethylbenzene	105		11.889					ND	
150 4-Chlorotoluene	126		11.907					ND	
151 2,3,4-Trichlorobutene	109		11.937					ND	
152 tert-Butylbenzene	134		12.138					ND	
153 Pentachloroethane	167		12.175					ND	
154 1,2,4-Trimethylbenzene	105		12.187					ND	
155 sec-Butylbenzene	105		12.309					ND	
156 1,3-Dichlorobenzene	146		12.401					ND	
157 4-Isopropyltoluene	119		12.431					ND	
* 158 1,4-Dichlorobenzene-d4	152	12.468	12.462	0.006	96	491829	50.0	50.0	
159 1,4-Dichlorobenzene	146		12.480					ND	
160 1,2,3-Trimethylbenzene	105		12.498					ND	
164 Benzyl chloride	91		12.565					ND	
165 1,3-Diethylbenzene	119		12.638					ND	
166 p-Diethylbenzene	119		12.712					ND	
167 n-Butylbenzene	92		12.730					ND	
168 1,2-Dichlorobenzene	146		12.748					ND	
169 o-diethylbenzene	119		12.785					ND	
170 1,2-Dibromo-3-Chloropropane	75		13.309					ND	
171 1,3,5-Trichlorobenzene	180		13.443					ND	
172 Hexachloroethane	201		13.560					ND	
173 1,2,4-Trichlorobenzene	180		13.876					ND	
175 2-Ethylhexyl acrylate	55		13.882					ND	U
174 Hexachlorobutadiene	225		13.967					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
176 Naphthalene	128		14.053					ND	7
177 1,2,3-Trichlorobenzene	180		14.199					ND	
178 2-Methylnaphthalene	142		14.796					ND	7
179 C4-C10	1		0.000					ND	
277 2-ethoxy-2-methyl butane TIC	1		0.000					ND	
188 sec-Butyl Alcohol TIC	1		0.000					ND	
190 Isobutyl acetate	43		0.000					ND	
191 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
181 4-Ethyltoluene	1		0.000					ND	
S 182 Total Diethylbenzene	1		0.000					ND	7
183 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
184 Propene oxide	1		0.000					ND	
185 C4-C12	1		0.000					ND	
186 C6-C12	1		0.000					ND	
187 Diethoxymethane	1		0.000					ND	
192 tert-Butyl Formate	1		0.000					ND	
199 1-Bromo-2-chloroethane	1		0.000					ND	
200 Dimethylformamide TIC	1		0.000					ND	
202 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
203 n-Decane	57		0.000					ND	
193 1,3-Divinylbenzene	1		0.000					ND	
S 194 Total BTEX	1		0.000					ND	
195 1-Chlorobutane	1		0.000					ND	
196 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
197 Butane	1		0.000					ND	
180 1,4-Divinylbenzene	1		0.000					ND	
198 C5-C12	1		0.000					ND	
204 3-Methyl-1-butene	1		0.000					ND	
205 sec-Butyl Alcohol	45		0.000					ND	
206 2-Butoxyethyl acetate	1		0.000					ND	
214 C6-C10	1		0.000					ND	
S 215 divinyl benzene	1		0.000					ND	7
216 3-Pentanone TIC	1		0.000					ND	
274 Gasoline (Unleaded)	1		0.000					ND	
207 Propanol	1		0.000					ND	
208 Methylal	1		0.000					ND	
209 Dodecane	57		0.000					ND	
189 3-chloro-1-Butene	1		0.000					ND	
210 Chloroacetonitrile	1		0.000					ND	
212 Undecane	1		0.000					ND	
213 n-Octane	1		0.000					ND	
275 1-Methylnaphthalene	142		0.000					ND	
284 2,2-Dimethylpropane TIC	1		0.000					ND	
285 2-Methylhexane TIC	1		0.000					ND	
286 1-Methylnaphthalene (TIC)	1		0.000					ND	
287 3-Methylpentane TIC	1		0.000					ND	
201 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
211 n-Nonane	1		0.000					ND	
278 Decamethylcyclopentasiloxane TIC	1		0.000					ND	
$ 279 trans-1,2,3-Trichlorobutene-2 TI	1		0.000					ND	
280 2,3-Dimethylbutane TIC	1		0.000					ND	
281 2,2-Dimethylbutane 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
282 Methylcyclopentane TIC	1		0.000					ND	
288 Cyclopentane TIC	1		0.000					ND	
289 3-Methylhexane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00031 Amount Added: 5.00 Units: uL Run Reagent

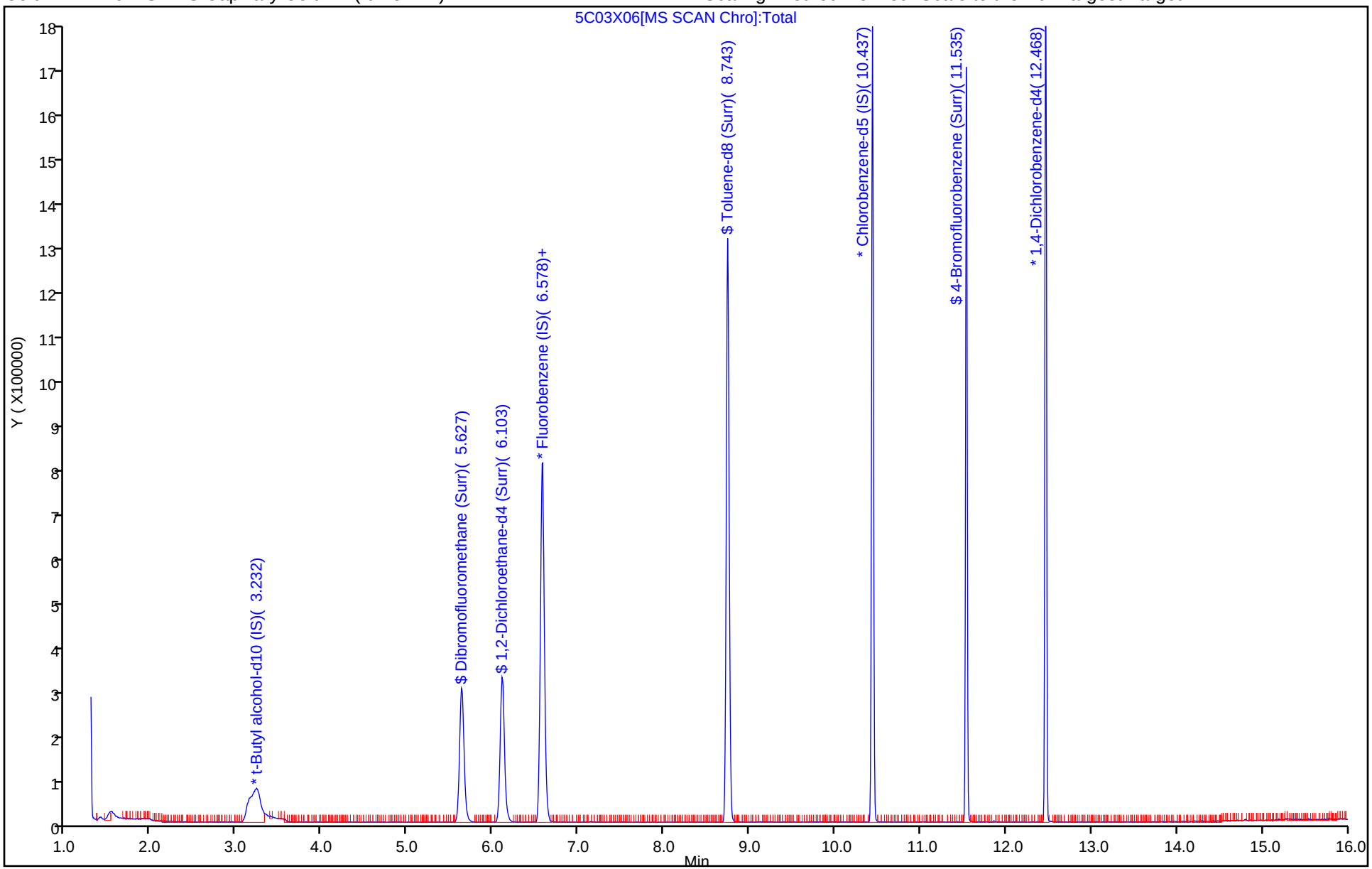
Report Date: 03-Oct-2024 15:52:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X06.D

Injection Date:	03-Oct-2024 11:33:30	Instrument ID:	26285	Operator ID:	knk41612
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X06.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 03-Oct-2024 11:33:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126694-007
Operator ID: knk41612 Instrument ID: 26285

Method: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 03-Oct-2024 15:51:31 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: DVW2 Date: 03-Oct-2024 15:50:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	50.0	54.4	108.82
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	52.9	105.86
$ 79 Toluene-d8 (Surr)	50.0	48.2	96.33
$ 140 4-Bromofluorobenzene (Surr)	50.0	46.2	92.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189937-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-558851/4

Matrix: Water
Lab File ID: 5C03X03.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 10/03/2024 10:31

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.: 558851
Units: ug/L

Preparation Batch No.:
Instrument ID: 26285

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	19.4		1.0	0.30
71-55-6	1,1,1-Trichloroethane	20.4		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	16.8		1.0	0.30
79-00-5	1,1,2-Trichloroethane	18.7		1.0	0.30
75-34-3	1,1-Dichloroethane	18.6		1.0	0.30
75-35-4	1,1-Dichloroethene	21.4		1.0	0.30
106-93-4	Ethylene Dibromide	17.4		1.0	0.20
107-06-2	1,2-Dichloroethane	18.4		1.0	0.30
78-87-5	1,2-Dichloropropane	17.9		1.0	0.30
78-93-3	2-Butanone (MEK)	220		10	0.50
591-78-6	2-Hexanone	247		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	238		10	0.50
67-64-1	Acetone	202		20	0.70
71-43-2	Benzene	18.2		1.0	0.30
74-97-5	Bromochloromethane	18.9		5.0	0.20
75-27-4	Bromodichloromethane	18.6		1.0	0.20
75-25-2	Bromoform	18.2		4.0	1.0
74-83-9	Bromomethane	16.7		1.0	0.30
75-15-0	Carbon disulfide	14.6		5.0	0.30
56-23-5	Carbon tetrachloride	21.2		1.0	0.30
108-90-7	Chlorobenzene	18.7		1.0	0.30
75-00-3	Chloroethane	16.7		1.0	0.30
67-66-3	Chloroform	18.6		1.0	0.30
74-87-3	Chloromethane	15.6		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	18.5		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	15.9		1.0	0.20
124-48-1	Dibromochloromethane	18.8		1.0	0.20
100-41-4	Ethylbenzene	18.0		1.0	0.40
1634-04-4	Methyl tert-butyl ether	15.5		1.0	0.20
75-09-2	Methylene Chloride	19.4		1.0	0.30
100-42-5	Styrene	18.7		5.0	0.30
127-18-4	Tetrachloroethene	19.9		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189937-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-558851/4

Matrix: Water
Lab File ID: 5C03X03.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 10/03/2024 10:31

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.: 558851
Units: ug/L

Preparation Batch No.:
Instrument ID: 26285

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	18.0		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	19.5		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	15.7		1.0	0.20
79-01-6	Trichloroethene	18.7		1.0	0.30
75-01-4	Vinyl chloride	15.5		1.0	0.30
1330-20-7	Xylenes, Total	55.1		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)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 03-Oct-2024 10:31:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126694-004
Operator ID: knk41612 Instrument ID: 26285

Method: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 03-Oct-2024 15:51:31 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: DVW2 Date: 03-Oct-2024 11:32:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.506	1.519	-0.013	99	158796	20.0	14.7	
4 Chloromethane	50	1.665	1.677	-0.012	98	218199	20.0	15.6	
6 Butadiene	39	1.726	1.738	-0.012	99	427800	20.0	32.5	
5 Vinyl chloride	62	1.750	1.756	-0.006	98	175793	20.0	15.5	
8 Bromomethane	94	2.012	2.025	-0.013	93	125588	20.0	16.7	
9 Chloroethane	64	2.043	2.049	-0.006	98	105689	20.0	16.7	
10 Dichlorofluoromethane	67	2.262	2.275	-0.013	97	318525	20.0	15.9	M
11 Trichlorofluoromethane	101	2.293	2.305	-0.012	97	224636	20.0	17.3	
12 Pentane	43	2.262	2.311	-0.049	92	206141	20.0	22.7	a
14 Ethyl ether	59	2.415	2.433	-0.018	96	105825	19.9	22.1	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.518	2.531	-0.013	95	188600	20.0	18.3	
16 Acrolein	56	2.549	2.561	-0.012	99	358788	150.3	115.7	
18 Acetone	58	2.671	2.683	-0.012	99	281237	250.0	202.0	
17 1,1-Dichloroethene	96	2.701	2.707	-0.006	93	129512	20.0	21.4	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.719	2.726	-0.007	93	137765	20.0	19.7	
21 Isopropyl alcohol	45	2.786	2.805	-0.019	29	90411	150.0	70.3	
20 Iodomethane	142	2.841	2.854	-0.013	99	221037	20.0	18.1	
22 Carbon disulfide	76	2.914	2.915	-0.001	99	296165	20.0	14.6	M
24 Methyl acetate	43	2.988	2.988	0.000	98	234792	20.0	23.2	
25 3-Chloro-1-propene	41	3.006	3.018	-0.012	85	211340	20.0	15.7	
26 Methylene Chloride	84	3.183	3.189	-0.006	97	153537	20.0	19.4	a
* 27 t-Butyl alcohol-d10 (IS)	65	3.207	3.207	0.000	97	442709	250.0	250.0	
29 2-Methyl-2-propanol	59	3.299	3.293	0.006	96	392492	200.0	166.4	
30 Acrylonitrile	53	3.396	3.396	0.000	97	461933	100.0	86.9	
31 trans-1,2-Dichloroethene	96	3.457	3.469	-0.012	95	132563	20.0	19.5	
32 Methyl tert-butyl ether	73	3.463	3.476	-0.013	97	364057	20.0	15.5	
33 Hexane	57	3.817	3.817	0.000	94	137821	20.0	15.4	
34 1,1-Dichloroethane	63	4.012	4.018	-0.006	96	253784	20.0	18.6	
36 Isopropyl ether	45	4.097	4.091	0.006	94	397491	20.0	15.1	
37 2-Chloro-1,3-butadiene	53	4.115	4.128	-0.013	93	182152	20.0	15.5	
38 Tert-butyl ethyl ether	59	4.640	4.658	-0.018	98	344041	20.0	14.2	
39 2-Butanone (MEK)	43	4.853	4.853	0.000	99	1626140	250.0	219.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 cis-1,2-Dichloroethene	96	4.878	4.884	-0.006	84	146568	20.0	18.5	
41 2,2-Dichloropropane	77	4.914	4.914	0.000	91	212316	20.0	18.9	
43 Propionitrile	54	4.938	4.945	-0.007	97	280511	150.0	123.8	
45 Methacrylonitrile	67	5.170	5.176	-0.006	95	610258	150.0	127.9	
46 Chlorobromomethane	128	5.219	5.231	-0.012	95	71054	20.0	18.9	
47 Tetrahydrofuran	71	5.249	5.250	-0.001	92	157549	100.0	79.4	
48 Chloroform	83	5.402	5.396	0.006	95	246031	20.0	18.6	
$ 49 Dibromofluoromethane (Surr)	113	5.621	5.628	-0.007	93	316159	50.0	52.0	
50 1,1,1-Trichloroethane	97	5.627	5.646	-0.019	98	225801	20.0	20.4	
51 Cyclohexane	56	5.743	5.749	-0.006	95	211906	20.0	15.9	
53 1,1-Dichloropropene	75	5.859	5.859	0.000	93	174269	20.0	17.1	
52 Carbon tetrachloride	117	5.853	5.859	-0.006	73	194596	20.0	21.2	
55 Isobutyl alcohol	41	6.085	6.097	-0.012	89	315370	500.0	423.5	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.103	6.103	0.000	78	68945	50.0	51.7	
57 Benzene	78	6.133	6.134	-0.001	97	540713	20.0	18.2	
58 1,2-Dichloroethane	62	6.213	6.213	0.000	97	196120	20.0	18.4	
60 Tert-amyl methyl ether	73	6.371	6.371	0.000	98	332709	20.0	14.7	
* 61 Fluorobenzene (IS)	96	6.572	6.572	0.000	99	1155174	50.0	50.0	
62 n-Heptane	43	6.621	6.615	0.006	95	156296	20.0	17.0	
63 n-Butanol	56	7.017	7.018	-0.001	96	423545	1000.0	858.6	
64 Trichloroethene	95	7.084	7.085	-0.001	97	140963	20.0	18.7	
66 Methylcyclohexane	83	7.401	7.402	-0.001	92	194587	20.0	16.9	
67 1,2-Dichloropropane	63	7.426	7.426	0.000	96	142977	20.0	17.9	
68 2-ethoxy-2-methyl butane	87	7.475	7.475	0.000	91	158261	20.0	15.2	
69 1,4-Dioxane	88	7.517	7.530	-0.013	81	51161	500.0	419.1	M
70 Dibromomethane	93	7.536	7.536	0.000	96	91159	20.0	18.1	
71 Methyl methacrylate	69	7.560	7.560	0.000	92	103710	20.0	15.4	
74 Dichlorobromomethane	83	7.804	7.804	0.000	98	175827	20.0	18.6	
75 2-Nitropropane	41	8.090	8.097	-0.007	94	62208	20.0	16.5	
76 2-Chloroethyl vinyl ether	63	8.212	8.212	0.000	92	79984	20.0	14.0	
77 cis-1,3-Dichloropropene	75	8.395	8.395	0.000	93	188891	20.0	15.9	
78 4-Methyl-2-pentanone (MIBK)	43	8.608	8.609	-0.001	99	3359175	250.0	237.7	
$ 79 Toluene-d8 (Surr)	98	8.743	8.743	0.000	94	1154237	50.0	50.9	
80 Toluene	92	8.828	8.834	-0.006	97	321573	20.0	18.0	
84 trans-1,3-Dichloropropene	75	9.163	9.163	0.000	97	173278	20.0	15.7	
85 Ethyl methacrylate	69	9.267	9.267	0.000	91	165214	20.0	13.8	
86 1,1,2-Trichloroethane	97	9.401	9.401	0.000	91	122848	20.0	18.7	
87 Tetrachloroethene	166	9.492	9.487	0.005	96	148309	20.0	19.9	
88 1,3-Dichloropropane	76	9.584	9.584	0.000	96	190403	20.0	17.1	
90 2-Hexanone	43	9.675	9.676	-0.001	99	2535249	250.0	246.7	
91 Chlorodibromomethane	129	9.828	9.828	0.000	90	135900	20.0	18.8	
96 Ethylene Dibromide	107	9.937	9.938	-0.001	98	124513	20.0	17.4	
* 98 Chlorobenzene-d5 (IS)	117	10.437	10.438	-0.001	87	862436	50.0	50.0	
99 Chlorobenzene	112	10.468	10.462	0.006	94	364410	20.0	18.7	
100 1-Chlorohexane	91	10.474	10.474	0.000	90	153503	20.0	16.5	
128 1,1,1,2-Tetrachloroethane	131	10.565	10.566	-0.001	94	140278	20.0	19.4	
129 Ethylbenzene	91	10.578	10.572	0.006	99	653048	20.0	18.0	
130 m-Xylene & p-Xylene	106	10.706	10.706	0.000	99	496449	40.0	36.6	
132 o-Xylene	106	11.059	11.059	0.000	97	254799	20.0	18.5	
133 Styrene	104	11.078	11.078	0.000	95	409615	20.0	18.7	
135 Bromoform	173	11.230	11.230	0.000	96	104392	20.0	18.2	
136 Isopropylbenzene	105	11.395	11.389	0.006	96	635015	20.0	20.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 140 4-Bromofluorobenzene (Surr)	95	11.535	11.535	0.000	90	451308	50.0	49.4	
143 Bromobenzene	156	11.651	11.645	0.006	94	158955	20.0	17.3	
144 1,1,2,2-Tetrachloroethane	83	11.663	11.657	0.006	95	231709	20.0	16.8	
145 trans-1,4-Dichloro-2-butene	53	11.687	11.681	0.006	89	157787	100.0	37.1	
146 1,2,3-Trichloropropane	110	11.699	11.693	0.006	85	64859	20.0	17.6	
147 N-Propylbenzene	91	11.742	11.742	0.000	99	794618	20.0	17.6	
148 2-Chlorotoluene	126	11.815	11.809	0.006	96	152480	20.0	17.1	
149 1,3,5-Trimethylbenzene	105	11.894	11.889	0.005	94	520647	20.0	16.9	
150 4-Chlorotoluene	126	11.913	11.907	0.006	99	153311	20.0	17.7	
152 tert-Butylbenzene	134	12.144	12.138	0.006	94	81821	20.0	15.5	
154 1,2,4-Trimethylbenzene	105	12.187	12.187	0.000	98	534352	20.0	16.7	
155 sec-Butylbenzene	105	12.315	12.309	0.006	95	623471	20.0	16.9	
156 1,3-Dichlorobenzene	146	12.407	12.401	0.006	98	301499	20.0	18.0	
157 4-Isopropyltoluene	119	12.437	12.431	0.006	97	534638	20.0	17.0	
* 158 1,4-Dichlorobenzene-d4	152	12.467	12.462	0.005	95	525241	50.0	50.0	
159 1,4-Dichlorobenzene	146	12.486	12.480	0.006	97	309109	20.0	18.1	
160 1,2,3-Trimethylbenzene	105	12.504	12.498	0.006	99	540848	20.0	16.6	
164 Benzyl chloride	91	12.565	12.565	0.000	99	432722	20.0	16.7	
165 1,3-Diethylbenzene	119	12.644	12.638	0.006	95	307549	20.0	16.9	
166 p-Diethylbenzene	119	12.717	12.712	0.005	92	331609	20.0	17.6	
167 n-Butylbenzene	92	12.736	12.730	0.006	98	283142	20.0	17.7	
168 1,2-Dichlorobenzene	146	12.754	12.748	0.006	97	303656	20.0	17.9	
169 o-diethylbenzene	119	12.791	12.785	0.006	96	254619	20.0	17.1	
170 1,2-Dibromo-3-Chloropropane	75	13.315	13.309	0.006	80	59641	20.0	16.0	
171 1,3,5-Trichlorobenzene	180	13.449	13.443	0.006	97	201357	20.0	17.7	
173 1,2,4-Trichlorobenzene	180	13.882	13.876	0.006	95	177568	20.0	16.0	
174 Hexachlorobutadiene	225	13.973	13.967	0.006	76	77126	20.0	17.9	
176 Naphthalene	128	14.059	14.053	0.006	97	708761	20.0	16.4	
177 1,2,3-Trichlorobenzene	180	14.205	14.199	0.006	96	183433	20.0	16.7	
178 2-Methylnaphthalene	142	14.802	14.796	0.006	92	283639	20.0	12.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LCS_VOC#1_00187	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00192	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00191	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00218	Amount Added: 50.00	Units: uL	
MSV_LCS_EE_00009	Amount Added: 50.00	Units: uL	
MSV_Cent_ISSS_00031	Amount Added: 5.00	Units: uL	Run Reagent

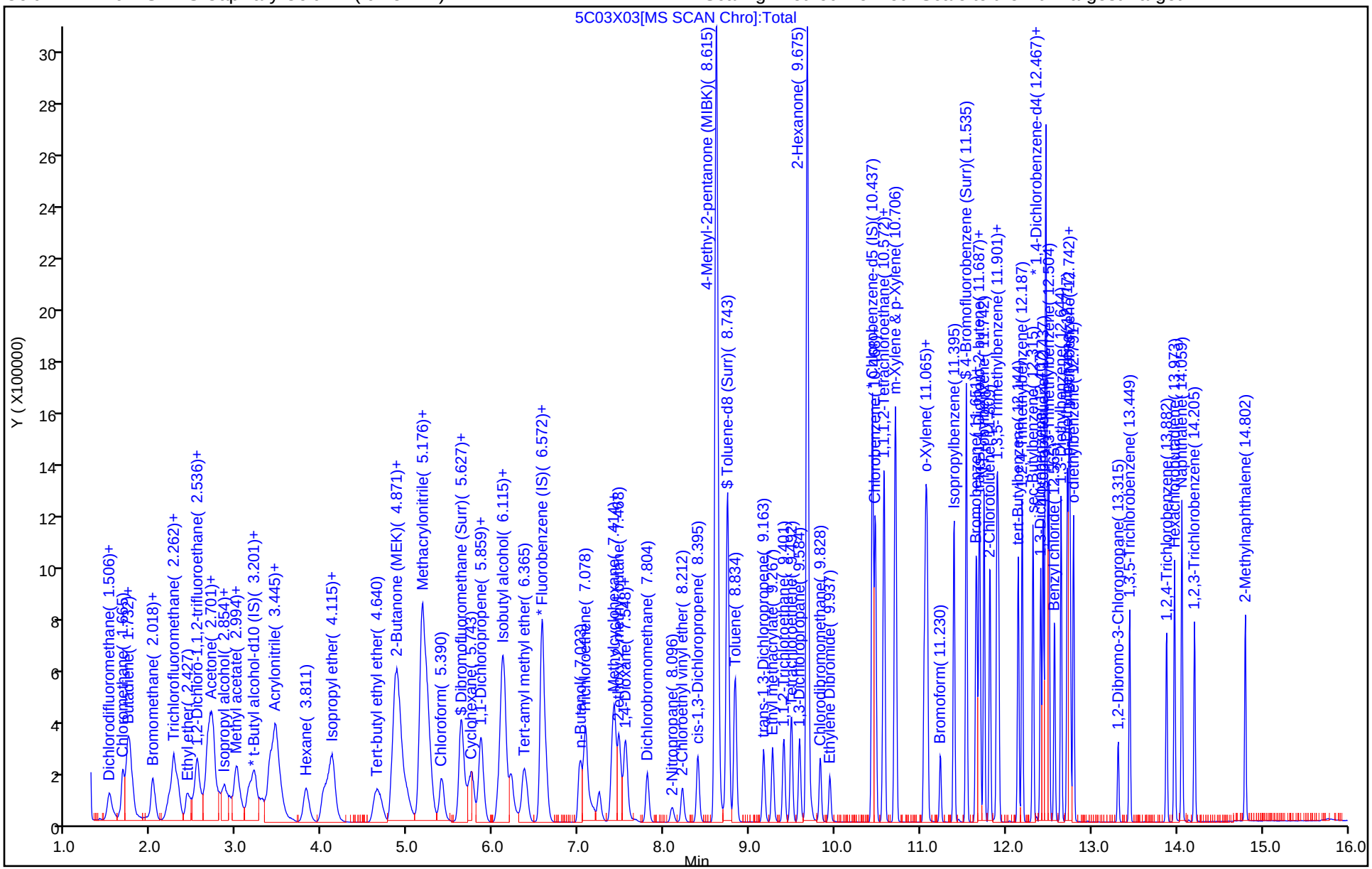
Report Date: 03-Oct-2024 15:51:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X03.D

Injection Date:	03-Oct-2024 10:31:30	Instrument ID:	26285	Operator ID:	knk41612
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X03.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	03-Oct-2024 10:31:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126694-004				
Operator ID:	knk41612	Instrument ID:	26285		
Method:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Oct-2024 15:51:31	Calib Date:	23-Jul-2024 22:12:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

First Level Reviewer: DVW2 Date: 03-Oct-2024 11:32:25

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	50.0	52.0	104.01
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	51.7	103.42
$ 79 Toluene-d8 (Surr)	50.0	50.9	101.86
$ 140 4-Bromofluorobenzene (Surr)	50.0	49.4	98.74

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

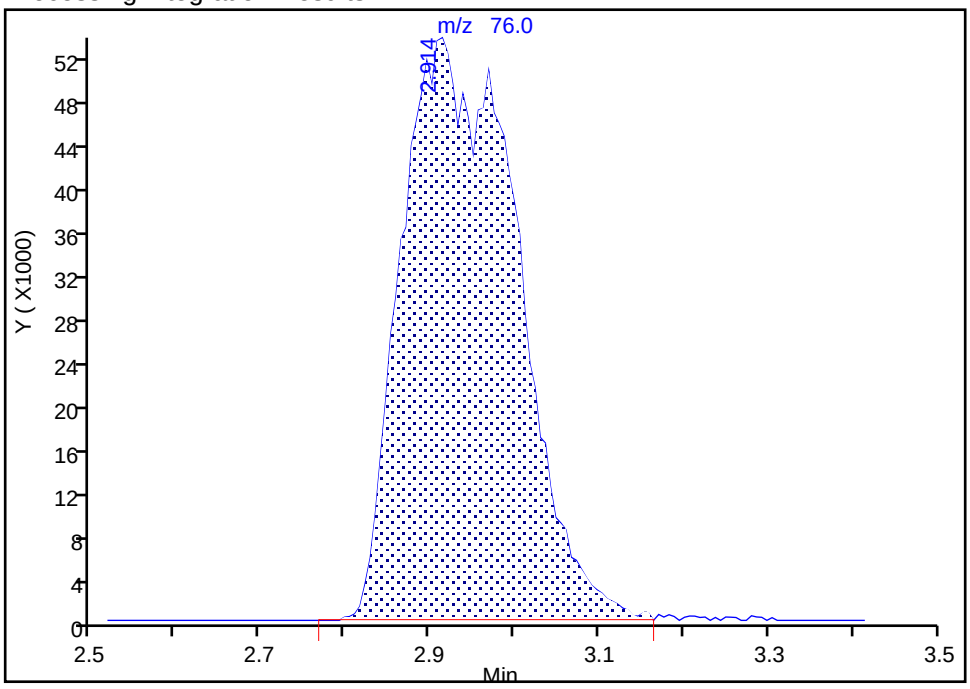
Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X03.D
Injection Date: 03-Oct-2024 10:31:30 Instrument ID: 26285
Lims ID: LCS
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

22 Carbon disulfide, CAS: 75-15-0

Signal: 1

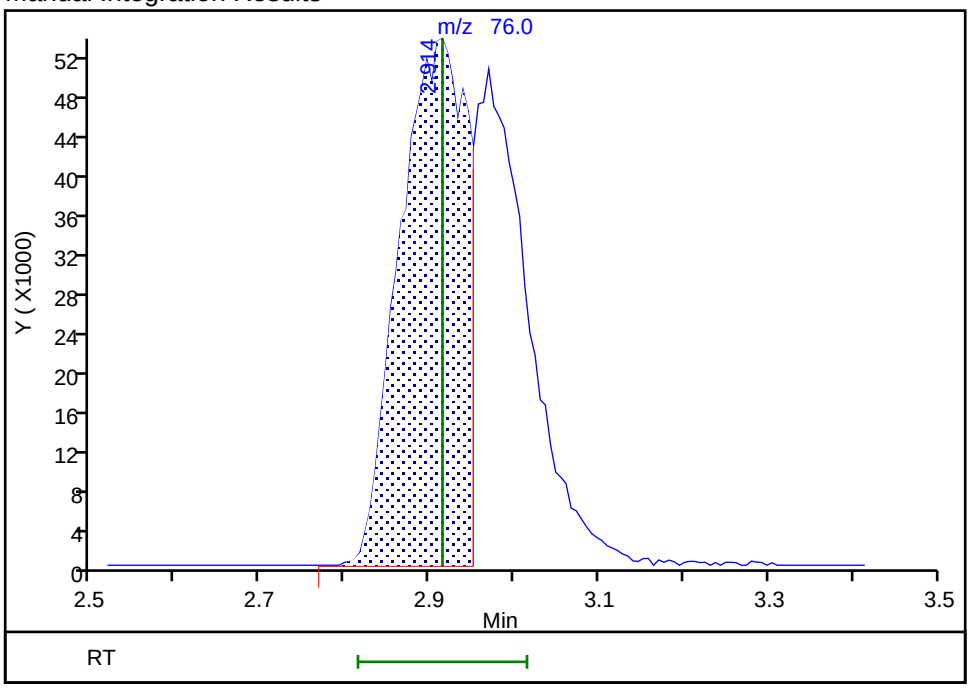
Processing Integration Results

RT: 2.91
Area: 507295
Amount: 25.010266
Amount Units: ug/l



Manual Integration Results

RT: 2.91
Area: 296165
Amount: 14.601298
Amount Units: ug/l



Reviewer: DVW2, 03-Oct-2024 11:31:40 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

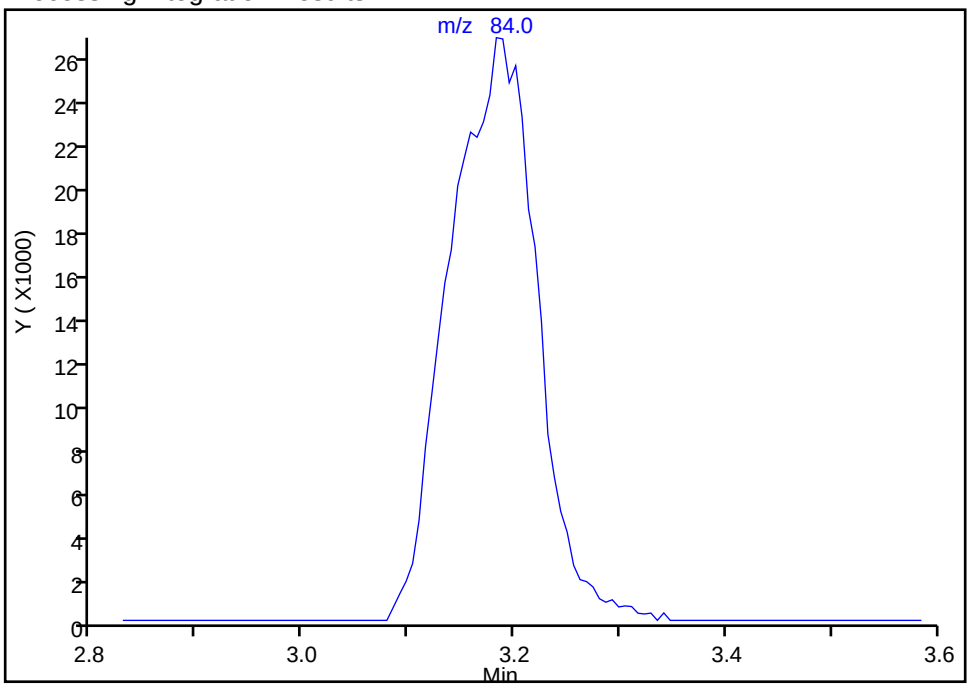
Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X03.D
Injection Date: 03-Oct-2024 10:31:30 Instrument ID: 26285
Lims ID: LCS
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

26 Methylene Chloride, CAS: 75-09-2

Signal: 1

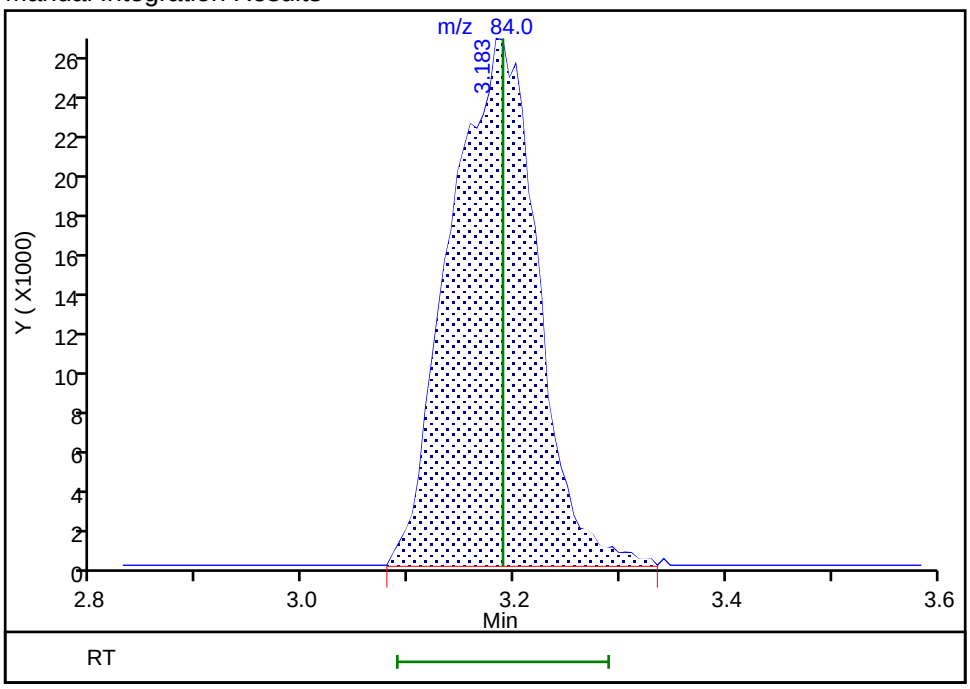
Not Detected
Expected RT: 3.19

Processing Integration Results



Manual Integration Results

RT: 3.18
Area: 153537
Amount: 19.410561
Amount Units: ug/l



Reviewer: DVW2, 03-Oct-2024 11:31:50 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189937-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-558851/5

Matrix: Water
Lab File ID: 5C03X04.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 10/03/2024 10:52

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.: 558851
Units: ug/L

Preparation Batch No.:
Instrument ID: 26285

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	18.9		1.0	0.30
71-55-6	1,1,1-Trichloroethane	20.1		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	16.6		1.0	0.30
79-00-5	1,1,2-Trichloroethane	17.7		1.0	0.30
75-34-3	1,1-Dichloroethane	18.9		1.0	0.30
75-35-4	1,1-Dichloroethene	21.2		1.0	0.30
106-93-4	Ethylene Dibromide	17.1		1.0	0.20
107-06-2	1,2-Dichloroethane	17.9		1.0	0.30
78-87-5	1,2-Dichloropropane	17.3		1.0	0.30
78-93-3	2-Butanone (MEK)	215		10	0.50
591-78-6	2-Hexanone	242		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	233		10	0.50
67-64-1	Acetone	203		20	0.70
71-43-2	Benzene	17.9		1.0	0.30
74-97-5	Bromochloromethane	18.9		5.0	0.20
75-27-4	Bromodichloromethane	17.8		1.0	0.20
75-25-2	Bromoform	18.0		4.0	1.0
74-83-9	Bromomethane	16.1		1.0	0.30
75-15-0	Carbon disulfide	13.1		5.0	0.30
56-23-5	Carbon tetrachloride	20.9		1.0	0.30
108-90-7	Chlorobenzene	18.5		1.0	0.30
75-00-3	Chloroethane	16.0		1.0	0.30
67-66-3	Chloroform	18.6		1.0	0.30
74-87-3	Chloromethane	15.1		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	18.2		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	15.6		1.0	0.20
124-48-1	Dibromochloromethane	17.7		1.0	0.20
100-41-4	Ethylbenzene	17.7		1.0	0.40
1634-04-4	Methyl tert-butyl ether	15.4		1.0	0.20
75-09-2	Methylene Chloride	18.8		1.0	0.30
100-42-5	Styrene	17.9		5.0	0.30
127-18-4	Tetrachloroethene	19.0		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-189937-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-558851/5

Matrix: Water
Lab File ID: 5C03X04.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 10/03/2024 10:52

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.: 558851
Units: ug/L

Preparation Batch No.:
Instrument ID: 26285

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	17.9		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	19.5		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	15.1		1.0	0.20
79-01-6	Trichloroethene	18.7		1.0	0.30
75-01-4	Vinyl chloride	15.6		1.0	0.30
1330-20-7	Xylenes, Total	54.2		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)	103		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X04.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 03-Oct-2024 10:52:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0126694-005
Operator ID: knk41612 Instrument ID: 26285

Method: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m
Limit Group: MSV - 8260C_D
Last Update: 03-Oct-2024 15:51:31 Calib Date: 23-Jul-2024 22:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: DVW2 Date: 03-Oct-2024 11:34:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.506	1.519	-0.013	99	164527	20.0	14.8	
4 Chloromethane	50	1.665	1.677	-0.012	98	218582	20.0	15.1	
6 Butadiene	39	1.726	1.738	-0.012	100	437601	20.0	32.2	
5 Vinyl chloride	62	1.750	1.756	-0.006	98	182818	20.0	15.6	
8 Bromomethane	94	2.018	2.025	-0.007	91	125446	20.0	16.1	
9 Chloroethane	64	2.037	2.049	-0.012	97	104425	20.0	16.0	
10 Dichlorofluoromethane	67	2.268	2.275	-0.007	97	322345	20.0	15.6	M
11 Trichlorofluoromethane	101	2.305	2.305	0.000	95	227901	20.0	17.1	
12 Pentane	43	2.299	2.311	-0.012	95	211627	20.0	22.6	
14 Ethyl ether	59	2.421	2.433	-0.012	96	110163	19.9	22.3	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.524	2.531	-0.007	86	191270	20.0	18.0	
16 Acrolein	56	2.543	2.561	-0.018	97	358465	150.3	115.0	
18 Acetone	58	2.671	2.683	-0.012	98	284058	250.0	202.9	
17 1,1-Dichloroethene	96	2.689	2.707	-0.018	94	132856	20.0	21.2	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.725	2.726	-0.001	94	142103	20.0	19.7	
21 Isopropyl alcohol	45	2.780	2.805	-0.025	95	82849	150.0	64.1	
20 Iodomethane	142	2.847	2.854	-0.007	99	229395	20.0	18.2	
22 Carbon disulfide	76	2.902	2.915	-0.013	99	274526	20.0	13.1	M
24 Methyl acetate	43	2.982	2.988	-0.006	98	232684	20.0	22.3	
25 3-Chloro-1-propene	41	3.006	3.018	-0.012	88	211328	20.0	15.2	
26 Methylene Chloride	84	3.195	3.189	0.006	97	153798	20.0	18.8	
* 27 t-Butyl alcohol-d10 (IS)	65	3.207	3.207	0.000	96	445128	250.0	250.0	
29 2-Methyl-2-propanol	59	3.311	3.293	0.018	100	343157	200.0	144.7	
30 Acrylonitrile	53	3.384	3.396	-0.012	97	473824	100.0	86.3	
31 trans-1,2-Dichloroethene	96	3.457	3.469	-0.012	96	136675	20.0	19.5	
32 Methyl tert-butyl ether	73	3.457	3.476	-0.019	97	371275	20.0	15.4	
33 Hexane	57	3.811	3.817	-0.006	95	147263	20.0	15.9	
34 1,1-Dichloroethane	63	4.012	4.018	-0.006	96	265769	20.0	18.9	
36 Isopropyl ether	45	4.085	4.091	-0.006	92	402383	20.0	14.8	
37 2-Chloro-1,3-butadiene	53	4.122	4.128	-0.006	93	191698	20.0	15.9	
38 Tert-butyl ethyl ether	59	4.658	4.658	0.000	98	354696	20.0	14.2	
39 2-Butanone (MEK)	43	4.841	4.853	-0.012	99	1640455	250.0	214.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 cis-1,2-Dichloroethene	96	4.871	4.884	-0.013	85	149173	20.0	18.2	
41 2,2-Dichloropropane	77	4.902	4.914	-0.012	90	218663	20.0	18.9	
43 Propionitrile	54	4.932	4.945	-0.013	96	293188	150.0	128.7	
45 Methacrylonitrile	67	5.170	5.176	-0.006	94	629926	150.0	127.9	
46 Chlorobromomethane	128	5.219	5.231	-0.012	96	73397	20.0	18.9	
47 Tetrahydrofuran	71	5.237	5.250	-0.013	82	157970	100.0	79.2	
48 Chloroform	83	5.390	5.396	-0.006	95	253195	20.0	18.6	
$ 49 Dibromofluoromethane (Surr)	113	5.627	5.628	-0.001	93	323689	50.0	51.6	
50 1,1,1-Trichloroethane	97	5.633	5.646	-0.013	63	230252	20.0	20.1	
51 Cyclohexane	56	5.749	5.749	0.000	95	220699	20.0	16.0	
53 1,1-Dichloropropene	75	5.853	5.859	-0.006	92	179959	20.0	17.1	
52 Carbon tetrachloride	117	5.859	5.859	0.000	94	198584	20.0	20.9	
55 Isobutyl alcohol	41	6.078	6.097	-0.019	93	278894	500.0	372.5	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.103	6.103	0.000	80	70168	50.0	51.0	
57 Benzene	78	6.133	6.134	-0.001	97	549470	20.0	17.9	
58 1,2-Dichloroethane	62	6.213	6.213	0.000	97	196300	20.0	17.9	
60 Tert-amyl methyl ether	73	6.359	6.371	-0.012	97	340227	20.0	14.6	
* 61 Fluorobenzene (IS)	96	6.566	6.572	-0.006	98	1192102	50.0	50.0	
62 n-Heptane	43	6.609	6.615	-0.006	94	155889	20.0	16.4	
63 n-Butanol	56	7.011	7.018	-0.007	96	412174	1000.0	831.0	
64 Trichloroethene	95	7.078	7.085	-0.007	98	145127	20.0	18.7	
66 Methylcyclohexane	83	7.401	7.402	-0.001	92	202848	20.0	17.0	
67 1,2-Dichloropropane	63	7.420	7.426	-0.006	95	143252	20.0	17.3	
68 2-ethoxy-2-methyl butane	87	7.475	7.475	0.000	91	163178	20.0	15.2	
69 1,4-Dioxane	88	7.523	7.530	-0.007	79	47836	500.0	390.4	M
70 Dibromomethane	93	7.536	7.536	0.000	96	92226	20.0	17.8	
71 Methyl methacrylate	69	7.554	7.560	-0.006	92	104394	20.0	15.1	
74 Dichlorobromomethane	83	7.804	7.804	0.000	98	173327	20.0	17.8	
75 2-Nitropropane	41	8.090	8.097	-0.007	94	60908	20.0	16.1	
76 2-Chloroethyl vinyl ether	63	8.212	8.212	0.000	93	82169	20.0	13.9	
77 cis-1,3-Dichloropropene	75	8.395	8.395	0.000	92	191480	20.0	15.6	
78 4-Methyl-2-pentanone (MIBK)	43	8.608	8.609	-0.001	99	3393719	250.0	232.7	
$ 79 Toluene-d8 (Surr)	98	8.743	8.743	0.000	95	1181062	50.0	50.1	
80 Toluene	92	8.828	8.834	-0.006	97	331862	20.0	17.9	
84 trans-1,3-Dichloropropene	75	9.163	9.163	0.000	98	173326	20.0	15.1	
85 Ethyl methacrylate	69	9.267	9.267	0.000	91	167021	20.0	13.4	
86 1,1,2-Trichloroethane	97	9.401	9.401	0.000	92	120606	20.0	17.7	
87 Tetrachloroethene	166	9.492	9.487	0.005	95	146571	20.0	19.0	
88 1,3-Dichloropropane	76	9.584	9.584	0.000	96	191791	20.0	16.6	
90 2-Hexanone	43	9.675	9.676	-0.001	99	2584703	250.0	241.8	
91 Chlorodibromomethane	129	9.828	9.828	0.000	91	132948	20.0	17.7	
96 Ethylene Dibromide	107	9.937	9.938	-0.001	99	126661	20.0	17.1	
* 98 Chlorobenzene-d5 (IS)	117	10.437	10.438	-0.001	87	896770	50.0	50.0	
99 Chlorobenzene	112	10.468	10.462	0.006	94	375273	20.0	18.5	
100 1-Chlorohexane	91	10.474	10.474	0.000	91	157384	20.0	16.3	
128 1,1,1,2-Tetrachloroethane	131	10.559	10.566	-0.007	95	141698	20.0	18.9	
129 Ethylbenzene	91	10.572	10.572	0.000	99	669089	20.0	17.7	
130 m-Xylene & p-Xylene	106	10.706	10.706	0.000	99	509245	40.0	36.1	
132 o-Xylene	106	11.059	11.059	0.000	97	258942	20.0	18.1	
133 Styrene	104	11.078	11.078	0.000	95	406814	20.0	17.9	
135 Bromoform	173	11.230	11.230	0.000	96	107417	20.0	18.0	
136 Isopropylbenzene	105	11.388	11.389	-0.001	96	647893	20.0	19.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 140 4-Bromofluorobenzene (Surr)	95	11.535	11.535	0.000	91	469340	50.0	49.4	
143 Bromobenzene	156	11.644	11.645	-0.001	95	160246	20.0	16.9	
144 1,1,2,2-Tetrachloroethane	83	11.657	11.657	0.000	95	235206	20.0	16.6	
145 trans-1,4-Dichloro-2-butene	53	11.681	11.681	0.000	88	155824	100.0	35.6	
146 1,2,3-Trichloropropane	110	11.693	11.693	0.000	85	63380	20.0	16.7	
147 N-Propylbenzene	91	11.742	11.742	0.000	99	806187	20.0	17.3	
148 2-Chlorotoluene	126	11.809	11.809	0.000	96	155713	20.0	17.0	
149 1,3,5-Trimethylbenzene	105	11.888	11.889	-0.001	94	536373	20.0	16.9	
150 4-Chlorotoluene	126	11.907	11.907	0.000	99	155684	20.0	17.4	
152 tert-Butylbenzene	134	12.138	12.138	0.000	94	85105	20.0	15.6	
154 1,2,4-Trimethylbenzene	105	12.187	12.187	0.000	98	548546	20.0	16.6	
155 sec-Butylbenzene	105	12.309	12.309	0.000	95	630410	20.0	16.6	
156 1,3-Dichlorobenzene	146	12.400	12.401	-0.001	98	303903	20.0	17.6	
157 4-Isopropyltoluene	119	12.431	12.431	0.000	98	540794	20.0	16.7	
* 158 1,4-Dichlorobenzene-d4	152	12.461	12.462	-0.001	95	541779	50.0	50.0	
159 1,4-Dichlorobenzene	146	12.480	12.480	0.000	96	311517	20.0	17.7	
160 1,2,3-Trimethylbenzene	105	12.498	12.498	0.000	99	543692	20.0	16.2	
164 Benzyl chloride	91	12.565	12.565	0.000	99	441445	20.0	16.5	
165 1,3-Diethylbenzene	119	12.638	12.638	0.000	95	312787	20.0	16.7	
166 p-Diethylbenzene	119	12.711	12.712	-0.001	94	331067	20.0	17.0	
167 n-Butylbenzene	92	12.730	12.730	0.000	97	287420	20.0	17.5	
168 1,2-Dichlorobenzene	146	12.748	12.748	0.000	98	307716	20.0	17.6	
169 o-diethylbenzene	119	12.784	12.785	-0.001	97	252601	20.0	16.4	
170 1,2-Dibromo-3-Chloropropane	75	13.309	13.309	0.000	80	61571	20.0	16.0	
171 1,3,5-Trichlorobenzene	180	13.443	13.443	0.000	97	199460	20.0	17.0	
173 1,2,4-Trichlorobenzene	180	13.876	13.876	0.000	94	177071	20.0	15.5	
174 Hexachlorobutadiene	225	13.967	13.967	0.000	74	77005	20.0	17.3	
176 Naphthalene	128	14.053	14.053	0.000	98	688114	20.0	15.4	
177 1,2,3-Trichlorobenzene	180	14.199	14.199	0.000	95	176093	20.0	15.5	
178 2-Methylnaphthalene	142	14.796	14.796	0.000	92	254531	20.0	11.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00187	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00192	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00191	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00218	Amount Added: 50.00	Units: uL	
MSV_LCS_EE_00009	Amount Added: 50.00	Units: uL	
MSV_Cent_ISSS_00031	Amount Added: 5.00	Units: uL	Run Reagent

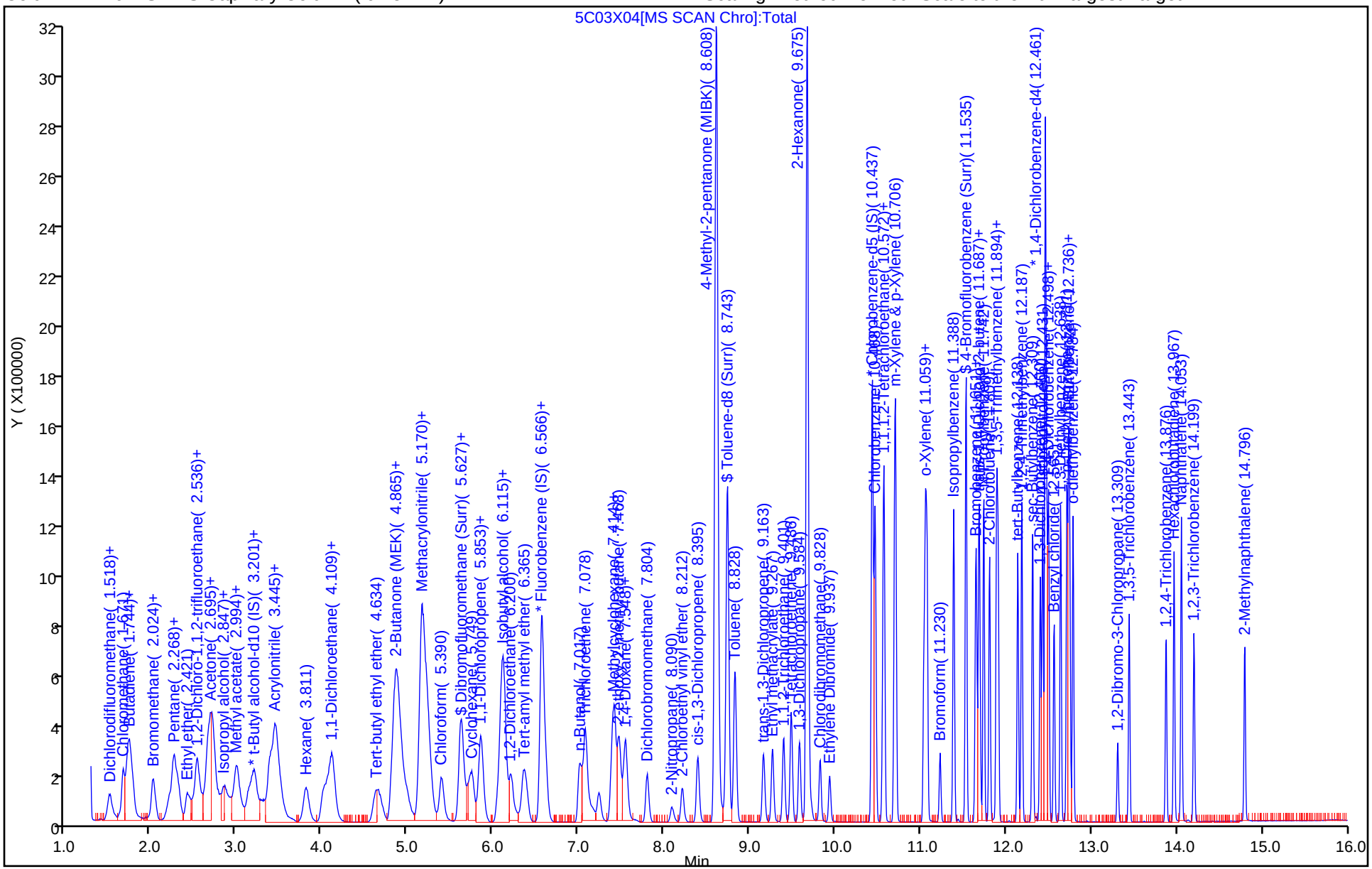
Report Date: 03-Oct-2024 15:51:54 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X04.D

Injection Date:	03-Oct-2024 10:52:30	Instrument ID:	26285	Operator ID:	knk41612
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVoa_26285a	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X04.D				
Lims ID:	LCSD				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	03-Oct-2024 10:52:30	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0126694-005				
Operator ID:	knk41612	Instrument ID:	26285		
Method:	\\chromfs\Lancaster\ChromData\26285\20241003-126694.b\MSVoa_26285a.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Oct-2024 15:51:31	Calib Date:	23-Jul-2024 22:12:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\26285\20240723-120132.b\5L23X12.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

First Level Reviewer: DVW2 Date: 03-Oct-2024 11:34:01

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	50.0	51.6	103.19
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	51.0	102.00
$ 79 Toluene-d8 (Surr)	50.0	50.1	100.23
$ 140 4-Bromofluorobenzene (Surr)	50.0	49.4	98.76

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

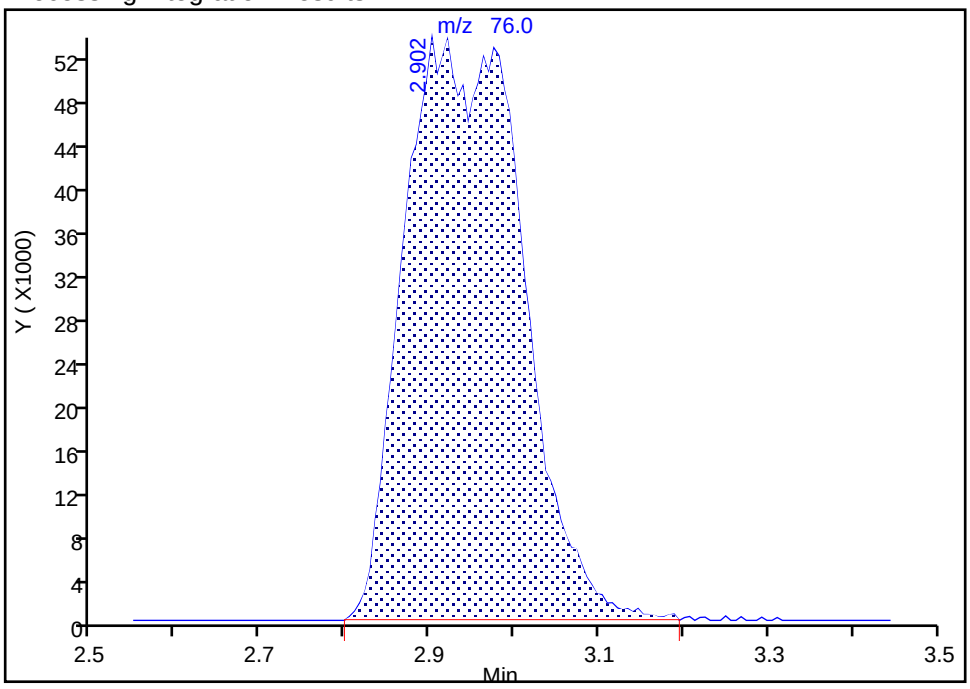
Data File: \\chromfs\Lancaster\ChromData\26285\20241003-126694.b\5C03X04.D
Injection Date: 03-Oct-2024 10:52:30 Instrument ID: 26285
Lims ID: LCSD
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_26285a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

22 Carbon disulfide, CAS: 75-15-0

Signal: 1

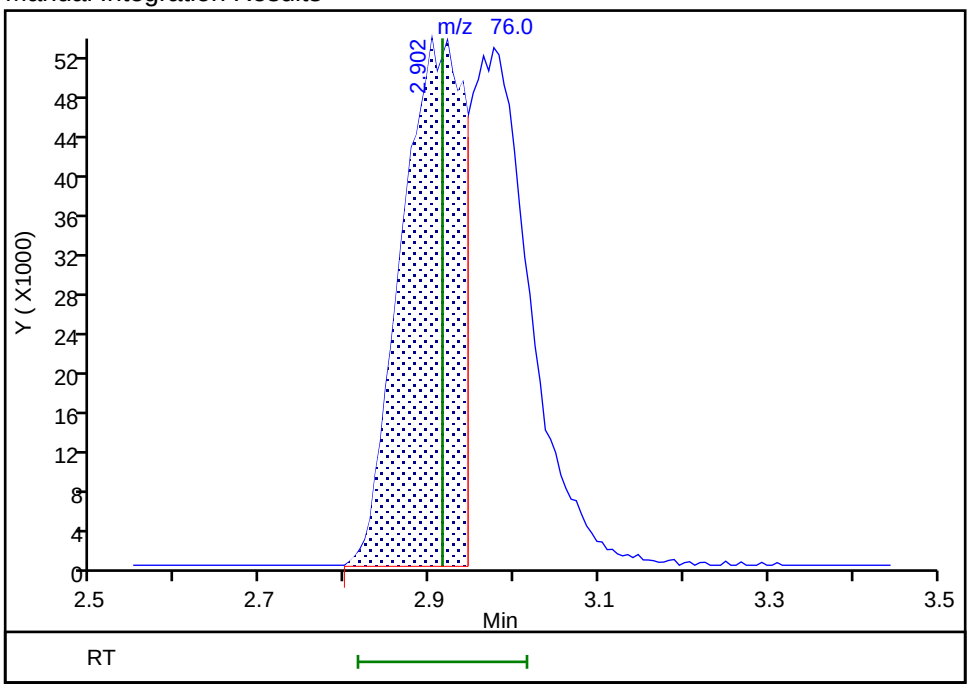
Processing Integration Results

RT: 2.90
Area: 520267
Amount: 24.855242
Amount Units: ug/l



Manual Integration Results

RT: 2.90
Area: 274526
Amount: 13.115208
Amount Units: ug/l



Reviewer: DVW2, 03-Oct-2024 11:33:25 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Instrument ID: 26285 Start Date: 07/23/2024 18:15

Analysis Batch Number: 531506 End Date: 07/23/2024 22:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-531506/1		07/23/2024 18:15	1	5L23T01.D	R-624SilMS 30m 0.25(mm)
IC 410-531506/12		07/23/2024 20:11	1	5L23X06.D	R-624SilMS 30m 0.25(mm)
IC 410-531506/13		07/23/2024 20:31	1	5L23X07.D	R-624SilMS 30m 0.25(mm)
IC 410-531506/14		07/23/2024 20:52	1	5L23X08.D	R-624SilMS 30m 0.25(mm)
IC 410-531506/15		07/23/2024 21:12	1	5L23X09.D	R-624SilMS 30m 0.25(mm)
ICIS 410-531506/16		07/23/2024 21:32	1	5L23X10.D	R-624SilMS 30m 0.25(mm)
IC 410-531506/17		07/23/2024 21:52	1	5L23X11.D	R-624SilMS 30m 0.25(mm)
IC 410-531506/18		07/23/2024 22:12	1	5L23X12.D	R-624SilMS 30m 0.25(mm)
ICV 410-531506/20		07/23/2024 22:53	1	5L23X14.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-189937-1

SDG No.:

Instrument ID: 26285 Start Date: 10/03/2024 09:37

Analysis Batch Number: 558851 End Date: 10/03/2024 19:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-558851/1		10/03/2024 09:37	1	5C03T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-558851/3		10/03/2024 10:11	1	5C03X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-558851/4		10/03/2024 10:31	1	5C03X03.D	R-624SilMS 30m 0.25(mm)
LCSD 410-558851/5		10/03/2024 10:52	1	5C03X04.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 11:12	1		R-624SilMS 30m 0.25(mm)
MB 410-558851/7		10/03/2024 11:33	1	5C03X06.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 11:53	1		R-624SilMS 30m 0.25(mm)
410-189937-5	Trip Blank	10/03/2024 12:14	1	5C03X08.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 12:35	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 12:55	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 13:15	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 13:36	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 13:56	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 14:17	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 14:37	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 14:58	1		R-624SilMS 30m 0.25(mm)
410-189937-1	HD-CW-21-0/1-0	10/03/2024 15:18	1	5C03X17.D	R-624SilMS 30m 0.25(mm)
410-189937-2	HD-CW-22-0/1-0	10/03/2024 15:39	1	5C03X18.D	R-624SilMS 30m 0.25(mm)
410-189937-3	HD-CW-23-0/1-0	10/03/2024 15:59	1	5C03X19.D	R-624SilMS 30m 0.25(mm)
410-189937-4	HD-SPBA-EFF-0/1-0	10/03/2024 16:20	1	5C03X20.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 16:41	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 17:01	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 17:21	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 17:42	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 18:02	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 18:23	5		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 18:43	50		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 19:04	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/03/2024 19:24	10		R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-189937-1

SDG No.:

Batch Number: 531506 | Batch Start Date: 07/23/24 18:15 | Batch Analyst: Pape, Linda C

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_4ppbEE 00594	MSV_CCV_2CEVE 00185	MSV_CCV_CYC 00010
BFB 410-531506/1		8260D			1 uL	1 uL				
IC 410-531506/12		8260D			5 mL	5 mL	2759	12.5 mL		
IC 410-531506/13		8260D			5 mL	5 mL	2759		4 uL	32 uL
IC 410-531506/14		8260D			5 mL	5 mL	2759		2 uL	8 uL
IC 410-531506/15		8260D			5 mL	5 mL	2759		4 uL	16 uL
ICIS 410-531506/16		8260D			5 mL	5 mL	2759		5 uL	10 uL
IC 410-531506/17		8260D			5 mL	5 mL	2759		5 uL	10 uL
IC 410-531506/18		8260D			5 mL	5 mL	2759		15 uL	30 uL
ICV 410-531506/20		8260D			5 mL	5 mL	2759			

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_EE 00007	MSV_CCV_GASES 00843	MSV_CCV_OH_Sp 00012	MSV_CCV_VOC#1 00193	MSV_CCV_VOC#3 00189	MSV_Cent_ISSS 00029
BFB 410-531506/1		8260D								
IC 410-531506/12		8260D								5 uL
IC 410-531506/13		8260D			4 uL	2 uL	4 uL	4 uL	3.2 uL	5 uL
IC 410-531506/14		8260D			2 uL	1 uL	2 uL	2 uL	1.6 uL	5 uL
IC 410-531506/15		8260D			4 uL	2 uL	4 uL	4 uL	3.2 uL	5 uL
ICIS 410-531506/16		8260D			5 uL	2.5 uL	5 uL	5 uL	4 uL	5 uL
IC 410-531506/17		8260D			5 uL	2.5 uL	5 uL	5 uL	4 uL	5 uL
IC 410-531506/18		8260D			15 uL	7.5 uL	15 uL	15 uL	12 uL	5 uL
ICV 410-531506/20		8260D								5 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-189937-1

SDG No.:

Batch Number: 531506 | Batch Start Date: 07/23/24 18:15 | Batch Analyst: Pape, Linda C

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_2CEVE 00181	MSV_LCS_ACROL 00180	MSV_LCS_CYC 00010	MSV_LCS_EE 00009	MSV_LCS_Gases 00208	MSV_LCS_OH_Sp 00015
BFB 410-531506/1		8260D								
IC 410-531506/12		8260D								
IC 410-531506/13		8260D								
IC 410-531506/14		8260D								
IC 410-531506/15		8260D								
ICIS 410-531506/16		8260D								
IC 410-531506/17		8260D								
IC 410-531506/18		8260D								
ICV 410-531506/20		8260D			50 uL	50 uL	50 uL	50 uL	50 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_VOC#1 00177	MSV_V_BFB 00017				
BFB 410-531506/1		8260D				1 uL				
IC 410-531506/12		8260D								
IC 410-531506/13		8260D								
IC 410-531506/14		8260D								
IC 410-531506/15		8260D								
ICIS 410-531506/16		8260D								
IC 410-531506/17		8260D								
IC 410-531506/18		8260D								
ICV 410-531506/20		8260D			50 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-189937-1

SDG No.:

Batch Number: 531506 | Batch Start Date: 07/23/24 18:15 | Batch Analyst: Pape, Linda C

Batch Method: 8260D | Batch End Date:

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-189937-1

SDG No.:

Batch Number: 558851 | Batch Start Date: 10/03/24 09:37 | Batch Analyst: Kephart, Kayla

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-558851/1		8260D			1 uL	1 uL				
CCVIS 410-558851/3		8260D			5 mL	5 mL				2768
LCS 410-558851/4		8260D			5 mL	5 mL				2768
LCSD 410-558851/5		8260D			5 mL	5 mL				2768
MB 410-558851/7		8260D			5 mL	5 mL				2768
410-189937-A-5	Trip Blank	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-189937-A-1	HD-CW-21-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-189937-A-2	HD-CW-22-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-189937-A-3	HD-CW-23-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-189937-A-4	HD-SPBA-EFF-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 00195	MSV_CCV_EE 00007	MSV_CCV_GASES 00877	MSV_CCV_VOC#1 00203	MSV_CCV_VOC#3 00200	MSV_Cent_ISSS 00031
BFB 410-558851/1		8260D								
CCVIS 410-558851/3		8260D			5 uL	5 uL	2.5 uL	5 uL	4 uL	5 uL
LCS 410-558851/4		8260D								5 uL
LCSD 410-558851/5		8260D								5 uL
MB 410-558851/7		8260D								5 uL
410-189937-A-5	Trip Blank	8260D	Water	T						5 uL
410-189937-A-1	HD-CW-21-0/1-0	8260D	Water	T						5 uL
410-189937-A-2	HD-CW-22-0/1-0	8260D	Water	T						5 uL
410-189937-A-3	HD-CW-23-0/1-0	8260D	Water	T						5 uL
410-189937-A-4	HD-SPBA-EFF-0/1-0	8260D	Water	T						5 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_2CEVE 00192	MSV_LCS_ACROL 00191	MSV_LCS_EE 00009	MSV_LCS_Gases 00218	MSV_LCS_VOC#1 00187	MSV_V_BFB 00017

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-189937-1

SDG No.:

Batch Number: 558851 | Batch Start Date: 10/03/24 09:37 | Batch Analyst: Kephart, Kayla

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_2CEVE 00192	MSV_LCS_ACROL 00191	MSV_LCS_EE 00009	MSV_LCS_Gases 00218	MSV_LCS_VOC#1 00187	MSV_V_BFB 00017
BFB 410-558851/1		8260D								1 uL
CCVIS 410-558851/3		8260D								
LCS 410-558851/4		8260D			50 uL	50 uL	50 uL	50 uL	50 uL	
LCSD 410-558851/5		8260D			50 uL	50 uL	50 uL	50 uL	50 uL	
MB 410-558851/7		8260D								
410-189937-A-5	Trip Blank	8260D	Water	T						
410-189937-A-1	HD-CW-21-0/1-0	8260D	Water	T						
410-189937-A-2	HD-CW-22-0/1-0	8260D	Water	T						
410-189937-A-3	HD-CW-23-0/1-0	8260D	Water	T						
410-189937-A-4	HD-SPBA-EFF-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.

Shipping and Receiving Documents

410-189937 Chain of Custody

Environmental Analysis Request/Chain of Custody

Lancaster Laboratories Environmental

Page 1 of 1

Acct. # _____ Group # _____ Sample # _____

Client: Hydro-Terra Group			
Project Name/#: fYNOP Quarterly Event	Site ID #: fYNOP, York PA		
Project Manager: Rodney Myers	P.O. #: 10012.42		
Sampler: Emily Wade (HTG)	PWSID #: N/A		
Phone #: 443-974-7978	Quote #:		
State where samples were collected: York, PA	For Compliance: Yes ☐ No ☑		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Tissue	Water: Potable	Ground	Surface	NPDES	Other:	Total # of Containers	Analyses Requested: Aqueous VOCs via 8260D (standard level)	Preservation Codes: H
HD-CW-21-0/1-0	9/26/24	1343	X						X				3	X	
HD-CW-22-0/1-0	9/26/24	1349	X						X				3	X	
HD-CW-23-0/1-0	9/26/24	1353	X						X				3	X	
HD-SPBA-EFF-0/1-0	9/26/24	1403	X						X				3	X	
Trip Blank	—	—	X										2	X	

For Lab Use Only

SF #: _____

SCR #: _____

Preservation Codes

H = HCl T = Thiosulfate

N = HNO_3 B = NaOH

S = H_2SO_4 P = H_3PO_4

O = Other

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address:

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: _ CLP Like Deliverables, Project Specific Analyte List

Relinquished by:	Date	Time	Received by:	Date	Time
HTG Emily Wade	9/27/24	0932			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
			MMK	9/27/24	0932

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other X

Temperature upon receipt _____ °C

R: 4.6 C: 4.4

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0218

HAT

MR

Login Sample Receipt Checklist

Client: Hydro-Terra Group

Job Number: 410-189937-1

Login Number: 189937

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Arroyo, Haley

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	